

F&B Project 212059

# Chain of Custody, Shipping & Receiving Documents, Sample Condition Checklist

212059  
Chain of Custody Laboratory Analysis Request

12-05-22

vw2

Laboratory Number: Friedman and Bruya  
 Date: 12/5/2022  
 Project Name: Carson Cleaners Remedial Investigation  
 Project Number: 212280-01.01  
 Project Manager: Gavin Casson / Jennifer Marsala  
 Phone Number: 206-287-9130  
 Shipment Method: Drop Off

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers		Test Parameters	Comments/Preservation
				2	X		
1	TB - 20411205	12/5/2022 / 0800	H2O	X	X		
2	CC-MW-4D-GW-20221205	12/5/2022 / 1030	H2O	X	X		
3	CC-MW-2S-GW-20221205	12/5/2022 / 1420	H2O	X	X		
4	CC-MW-2D-GW-20221205	12/5/2022 / 1425	H2O	X	X		
5	CC-MW-03-GW-20221205	12/5/2022 / 1450	H2O	X	X		
6	CC-MW-06-GW-20221205	12/5/2022 / 1445	H2O	X	X		
7	CC-MW-01-GW-20221205	12/5/2022 / 1030	H2O	X	X		
8	SP-MW-8-GW-20221205	12/5/22 / 1550	H2O	X	X		
9							
10							
11							
12							
13							
14							
15							

Notes: See QAPP for analytes and methods  
 Short-hold time on VOCs

Relinquished By: STEPHEN SMITH Company: Anchor OEA, LLC  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: 12-5-22 / 1638

Relinquished By: \_\_\_\_\_ Company: FAI  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: 12/5/22 / 1440

Received By: \_\_\_\_\_ Company: \_\_\_\_\_  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Company: \_\_\_\_\_  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

ANCHOR OEA  
 STANDARD

LAB ID  
 01 02 03 04 05 06 07 08  
 BY ICE IN COVEN / HIL PRESERVATION

ON ICE IN COVEN / HIL PRESERVATION

Samples received at 4:00

Anchor OEA, LLC is a service mark for the laboratory and client. This Protocol file will return the original.

NP

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 212059 CLIENT Anchor INITIALS/DATE: [Signature] 10/19/22

If custody seals are present on cooler, are they intact?  NA  YES  NO

Cooler/Sample temperature 4 °C

Were samples received on ice/cold packs?  YES  NO

How did samples arrive?  Over the Counter  Picked up by F&BI  FedEx/UPS/GSO

Number of days samples have been sitting prior to receipt at laboratory 0 days

Is there a Chain-of-Custody\* (COC)?  YES  NO  
\*or other representative documents, letters, and/or shipping memos

Are the samples clearly identified? (explain "no" answer below)  YES  NO

Is the following information provided on the COC\* ? (explain "no" answer below)

Sample ID's	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	# of Containers	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Date Sampled	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Relinquished	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Time Sampled	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Requested analysis	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below)  YES  NO

Were appropriate sample containers used?  YES  NO  Unknown

If custody seals are present on samples, are they intact?  NA  YES  NO

Are samples requiring no headspace, headspace free?  NA  YES  NO

Air Samples: Were any additional canisters received?  NA  YES  NO

If Yes, number of unused 1L canisters \_\_\_\_\_  
number of unused 6L canisters \_\_\_\_\_

Explain "no" items from above (use the back if needed)  
Trip blank container ID not match COC  
Duplicate set of container IDs.  
Times not match COC  
labeled closest to time as possible



# Laboratory Worksheets





**EPA 8260D**  
**MDLs**

**Reported MDL Data and Calculations**

Analyst fill in all below (attach extraction worksheet(s))

Analysis: 8260 Standard(s) spiked: 63-4A, 63-4B, 63-4C, 63-26A, 63-26B, 63-26C  
 Matrix: Water Volume spiked: 4.3 uL (A), 8.6 uL (B), 17.2/43 uL (C)  
 Instrument ID: GCMS #13 Date(s) Extracted: 05/27/21, 05/28/21, 06/07/21, 06/08/21, 12/02/21, 12/08/21  
 Reporting Units: ug/L Date(s) Analyzed: 05/27/21, 05/28/21, 06/07/21, 06/08/21, 12/02/21, 12/08/21  
 Date Calculated: 06/01/21, 06/09/21, 12/07/21, 12/10/21, 4/6/2022, 04/11/22  
 Calculation Analyst: JCM, WE, AEN, AS

Analyte	(StdDev*2.998)	(2*MDL)	(5*MDL)	Std Dev	Mean	Spike Level	% Rec.
	MDL	PQL	PQL				
Ethanol							
Dichlorodifluoromethane	0.152	0.305	0.762	0.051	0.200	0.2	100
Chloromethane	1.096	2.191	5.478	0.365	5.441	5	109
Vinyl chloride	0.017	0.035	0.087	0.006	0.025	0.02	124
Bromomethane	1.853	3.707	9.267	0.618	6.097	5	122
Chloroethane	0.220	0.439	1.098	0.073	0.246	0.2	123
Trichlorofluoromethane	0.063	0.126	0.316	0.021	0.245	0.2	122
2-Propanol							
Acetone	4.490	8.980	22.450	1.498	12.426	10	124
1,1-Dichloroethene	0.015	0.031	0.077	0.005	0.056	0.05	112
Hexane	0.197	0.395	0.986	0.066	0.192	0.2	96
Methylene chloride	1.769	3.539	8.847	0.590	6.045	5	121
t-Butyl alcohol (TBA)	7.967	15.934	39.836	2.657	24.852	25	99
Methyl t-butyl ether (MTBE)	0.054	0.109	0.272	0.018	0.061	0.05	121
trans-1,2-Dichloroethene	0.021	0.043	0.106	0.007	0.058	0.05	116
Diisopropyl ether (DIPE)	0.039	0.078	0.195	0.013	0.201	0.2	100
1,1-Dichloroethane	0.013	0.026	0.066	0.004	0.054	0.05	108
Ethyl t-butyl ether (ETBE)	0.028	0.057	0.142	0.009	0.198	0.2	99
2,2-Dichloropropane	0.188	0.376	0.939	0.063	0.255	0.2	128
cis-1,2-Dichloroethene	0.015	0.029	0.073	0.005	0.057	0.05	114
Chloroform	0.049	0.099	0.246	0.016	0.215	0.2	107
2-Butanone (MEK)	1.862	3.723	9.308	0.621	10.875	10	109
t-Amyl methyl ether (TAME)	0.049	0.098	0.245	0.016	0.210	0.2	105
1,2-Dichloroethane (EDC)	0.097	0.194	0.485	0.032	0.229	0.2	114
1,1,1-Trichloroethane	0.012	0.025	0.062	0.004	0.054	0.05	109
1,1-Dichloropropene	0.060	0.120	0.299	0.020	0.199	0.2	100
Carbon tetrachloride	0.110	0.220	0.550	0.037	0.199	0.2	99
Benzene	0.018	0.036	0.089	0.006	0.025	0.02	124
Trichloroethene	0.032	0.064	0.159	0.011	0.059	0.05	117
1,2-Dichloropropane	0.133	0.266	0.666	0.044	0.218	0.2	109
Bromodichloromethane	0.061	0.121	0.303	0.020	0.215	0.2	108
Dibromomethane	0.043	0.087	0.216	0.014	0.229	0.2	114
4-Methyl-2-pentanone	1.975	3.951	9.877	0.659	25.044	25	100
cis-1,3-Dichloropropene	0.060	0.119	0.298	0.020	0.214	0.2	107
Toluene	0.018	0.035	0.088	0.006	0.060	0.05	119
trans-1,3-Dichloropropene	0.088	0.176	0.441	0.029	0.213	0.2	106
1,1,2-Trichloroethane	0.118	0.237	0.592	0.040	0.230	0.2	115
2-Hexanone	1.094	2.188	5.470	0.365	11.949	10	119
1,3-Dichloropropane	0.059	0.118	0.296	0.020	0.213	0.2	107
Tetrachloroethene	0.023	0.046	0.114	0.008	0.064	0.05	127
Dibromochloromethane	0.051	0.102	0.256	0.017	0.212	0.2	106
1,2-Dibromoethane (EDB)	0.022	0.043	0.108	0.007	0.059	0.05	118
Chlorobenzene	0.042	0.085	0.212	0.014	0.221	0.2	110
Ethylbenzene	0.016	0.033	0.082	0.005	0.028	0.02	141
1,1,1,2-Tetrachloroethane	0.065	0.130	0.324	0.022	0.217	0.2	108
m,p-Xylene	0.030	0.060	0.149	0.010	0.056	0.04	141
o-Xylene	0.011	0.022	0.054	0.004	0.026	0.02	132
Styrene	0.048	0.095	0.239	0.016	0.192	0.2	96
Isopropylbenzene	0.011	0.023	0.057	0.004	0.200	0.2	100
Bromoform	0.091	0.183	0.457	0.030	0.219	0.2	110
n-Propylbenzene	0.027	0.054	0.135	0.009	0.207	0.2	103
Bromobenzene	0.057	0.114	0.286	0.019	0.211	0.2	106
1,3,5-Trimethylbenzene	0.017	0.034	0.084	0.006	0.205	0.2	103
1,1,2,2-Tetrachloroethane	0.062	0.123	0.308	0.021	0.222	0.2	111
1,2,3-Trichloropropane	0.111	0.223	0.556	0.037	0.242	0.2	121
2-Chlorotoluene	0.039	0.078	0.194	0.013	0.210	0.2	105
4-Chlorotoluene	0.033	0.065	0.163	0.011	0.207	0.2	103
tert-Butylbenzene	0.021	0.042	0.106	0.007	0.201	0.2	100
1,2,4-Trimethylbenzene	0.039	0.079	0.197	0.013	0.204	0.2	102
sec-Butylbenzene	0.031	0.062	0.156	0.010	0.205	0.2	103
p-Isopropyltoluene	0.042	0.084	0.210	0.014	0.195	0.2	97
1,3-Dichlorobenzene	0.052	0.104	0.261	0.017	0.217	0.2	108
1,4-Dichlorobenzene	0.040	0.079	0.198	0.013	0.223	0.2	112
1,2-Dichlorobenzene	0.038	0.077	0.191	0.013	0.212	0.2	106
1,2-Dibromo-3-chloropropane	0.999	1.997	4.994	0.333	4.836	5	97
1,2,4-Trichlorobenzene	0.053	0.105	0.263	0.018	0.218	0.2	109
Hexachlorobutadiene	0.115	0.230	0.576	0.038	0.224	0.2	112
Naphthalene	0.111	0.222	0.555	0.037	0.227	0.2	113
1,2,3-Trichlorobenzene	0.036	0.071	0.178	0.012	0.225	0.2	113

Reported MDL Data and Calculations

Analyst fill in all below (attach extraction worksheet(s))

Analysis: 8260 Standard(s) spiked: 8260 Cal Std. (50/250 ppm)  
 Matrix: Water Volume spiked: 4.3 uL (60-190a) and 8.6 uL (60-190b), 43 uL (60-190c)  
 Instrument ID: GCMS #11 Date(s) Extracted: 05/04/21, 05/26/21, 08/30/21, 08/31/21, 12/08/21, 12/01/21  
 Reporting Units: ug/L Date(s) Analyzed: 05/04/21, 05/26/21, 08/30/21, 08/31/21, 12/08/21, 12/01/21  
 Date Calculated: 6/3/2021, 09/01/22, 09/24/21, 12/09/21, 12/10/21, 02/22/22  
 Calculation Analyst: JCM, WE, AS

Analyte	(StdDev*2.998)	(2*MDL)	(5*MDL)	Std Dev	Mean	Spike Level	% Rec.
	MDL	PQL	PQL				
Ethanol							
Dichlorodifluoromethane	0.246	0.492	1.230	0.082	0.264	0.200	132
Chloromethane	1.615	3.230	8.074	0.539	5.331	5.000	107
Vinyl chloride	0.018	0.036	0.090	0.006	0.052	0.050	105
Bromomethane	3.116	6.232	15.579	1.039	5.948	5.000	119
Chloroethane	0.143	0.286	0.715	0.048	0.270	0.200	135
Trichlorofluoromethane	0.187	0.374	0.936	0.062	0.223	0.200	112
2-Propanol							
Acetone	4.651	9.301	23.254	1.551	12.835	10.000	128
1,1-Dichloroethene	0.034	0.069	0.172	0.011	0.063	0.050	126
Hexane	0.124	0.248	0.620	0.041	0.244	0.200	122
Methylene chloride	2.640	5.279	13.198	0.880	5.052	5.000	101
t-Butyl alcohol (TBA)	7.869	15.739	39.347	2.625	25.924	25.000	104
Methyl t-butyl ether (MTBE)	0.004	0.009	0.022	0.001	0.052	0.050	105
trans-1,2-Dichloroethene	0.035	0.069	0.173	0.012	0.215	0.200	107
Diisopropyl ether (DIPE)	0.049	0.099	0.247	0.017	0.203	0.200	101
1,1-Dichloroethane	0.006	0.012	0.030	0.002	0.024	0.020	121
Ethyl t-butyl ether (ETBE)	0.070	0.141	0.352	0.023	0.204	0.200	102
2,2-Dichloropropane	0.170	0.340	0.849	0.057	0.192	0.200	96
cis-1,2-Dichloroethene	0.016	0.031	0.078	0.005	0.059	0.050	117
Chloroform	0.050	0.100	0.251	0.017	0.214	0.200	107
2-Butanone (MEK)	2.997	5.994	14.985	1.000	11.380	10.000	114
t-Amyl methyl ether (TAME)	0.061	0.123	0.307	0.020	0.201	0.200	101
1,2-Dichloroethane (EDC)	0.051	0.101	0.253	0.017	0.218	0.200	109
1,1,1-Trichloroethane	0.007	0.014	0.035	0.002	0.025	0.020	123
1,1-Dichloropropene	0.122	0.244	0.609	0.041	0.208	0.200	104
Carbon tetrachloride	0.106	0.213	0.531	0.035	0.203	0.200	101
Benzene	0.017	0.034	0.086	0.006	0.027	0.020	137
Trichloroethene	0.045	0.089	0.223	0.015	0.064	0.050	128
1,2-Dichloropropane	0.144	0.288	0.721	0.048	0.213	0.200	107
Bromodichloromethane	0.092	0.184	0.461	0.031	0.202	0.200	101
Dibromomethane	0.090	0.179	0.448	0.030	0.220	0.200	110
4-Methyl-2-pentanone	0.474	0.948	2.371	0.158	0.902	1.000	90
cis-1,3-Dichloropropene	0.095	0.191	0.477	0.032	0.190	0.200	95
Toluene	0.040	0.081	0.201	0.013	0.025	0.020	123
trans-1,3-Dichloropropene	0.123	0.247	0.617	0.041	0.202	0.200	101
1,1,2-Trichloroethane	0.087	0.175	0.437	0.029	0.224	0.200	112
2-Hexanone	2.216	4.433	11.082	0.739	12.030	10.000	120
1,3-Dichloropropane	0.083	0.166	0.416	0.028	0.213	0.200	106
Tetrachloroethene	0.077	0.154	0.385	0.026	0.065	0.050	129
Dibromochloromethane	0.130	0.259	0.648	0.043	0.212	0.200	106
1,2-Dibromoethane (EDB)	0.045	0.089	0.223	0.015	0.213	0.200	106
Chlorobenzene	0.052	0.104	0.259	0.017	0.224	0.200	112
Ethylbenzene	0.025	0.049	0.123	0.008	0.026	0.020	128
1,1,1,2-Tetrachloroethane	0.094	0.188	0.470	0.031	0.212	0.200	106
m,p-Xylene	0.048	0.096	0.241	0.016	0.053	0.040	132
o-Xylene	0.019	0.039	0.097	0.006	0.026	0.020	128
Styrene	0.071	0.142	0.354	0.024	0.203	0.200	101
Isopropylbenzene	0.071	0.141	0.353	0.024	0.196	0.200	98
Bromoform	0.125	0.251	0.627	0.042	0.202	0.200	101
n-Propylbenzene	0.094	0.189	0.472	0.031	0.219	0.200	110
Bromobenzene	0.076	0.153	0.382	0.025	0.233	0.200	116
1,3,5-Trimethylbenzene	0.080	0.160	0.399	0.027	0.192	0.200	96
1,1,1,2,2-Tetrachloroethane	0.095	0.191	0.477	0.032	0.218	0.200	109
1,2,3-Trichloropropane	0.068	0.136	0.340	0.023	0.253	0.200	126
2-Chlorotoluene	0.096	0.193	0.482	0.032	0.227	0.200	113
4-Chlorotoluene	0.082	0.164	0.409	0.027	0.219	0.200	109
tert-Butylbenzene	0.076	0.153	0.382	0.025	0.205	0.200	103
1,2,4-Trimethylbenzene	0.074	0.148	0.370	0.025	0.187	0.200	94
sec-Butylbenzene	0.090	0.180	0.449	0.030	0.195	0.200	98
p-Isopropyltoluene	0.081	0.161	0.404	0.027	0.199	0.200	100
1,3-Dichlorobenzene	0.099	0.197	0.493	0.033	0.224	0.200	112
1,4-Dichlorobenzene	0.088	0.176	0.440	0.029	0.238	0.200	119
1,2-Dichlorobenzene	0.094	0.189	0.472	0.032	0.219	0.200	110
1,2-Dibromo-3-chloropropane	0.595	1.190	2.974	0.198	4.792	5.000	96
1,2,4-Trichlorobenzene	0.134	0.269	0.672	0.045	0.219	0.200	110
Hexachlorobutadiene	0.158	0.315	0.788	0.053	0.227	0.200	113
Naphthalene	0.195	0.390	0.974	0.065	0.237	0.200	119
1,2,3-Trichlorobenzene	0.114	0.228	0.569	0.038	0.208	0.200	104

**EPA 8260D**  
**Sequence Tables**

Comment:

Operator: LM

Data Path: D:\GCMS13\GCMS13\_Data\11-30-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

B 1211

Method Sections To Run	Sequence Barcode Options
(X) Full Method	( ) On Mismatch, Inject Anyway
( ) Reprocessing Only	( ) On Mismatch, Don't Inject
	(X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	113001	VM080322	rinse
2)	Sample	100	113002	VM080322	rinse
3)	Sample	1	113003	VM080322	10 ppb 8260 CCV 68-04N
4)	Sample	2	113004	VM080322	02-2830 lcs
5)	Sample	3	113005	VM080322	02-2830 lcsd
6)	Sample	100	113006	VM080322	rinse
7)	Sample	4	113007	VM080322	02-2830 mb
8)	Sample	5	113008	VM080322	02-2829 mb 1/0.25
9)	Sample	6	113009	VM080322	211328-01
10)	Sample	7	113010	VM080322	211348-01
11)	Sample	8	113011	VM080322	211389-01
12)	Sample	9	113012	VM080322	211389-02
13)	Sample	10	113013	VM080322	211313-01
14)	Sample	11	113014	VM080322	211313-02 1/100
15)	Sample	12	113015	VM080322	211379-01 1/5
16)	Sample	13	113016	VM080322	211389-03
17)	Sample	100	113017	VM080322	rinse
18)	Sample	100	113018	VM080322	rinse
19)	Sample	14	113019	VM080322	211348-01 1/50
20)	Sample	100	113020	VM080322	rinse
21)	Sample	100	113021	VM080322	rinse
22)	Sample	15	113022	VM080322	10 ppb test
23)	Sample	100	113023	VM080322	50 ng BFB 67-156A
24)	Sample	100	113024	VM080322	rinse
25)	Sample	100	113025	VM080322	rinse
26)	Sample	100	113026	VM080322	rinse
27)	Sample	100	113027	VM080322	rinse
28)	Sample	100	113028	VM080322	rinse
29)	Sample	100	113029	VM080322	rinse
30)	Sample	16	113030	VM080322	0.02 ppb 8260 ICAL 68-4F
31)	Sample	17	113031	VM080322	0.04 ppb 8260 ICAL 68-4G
32)	Sample	18	113032	VM080322	0.1 ppb 8260 ICAL 68-4H
33)	Sample	19	113033	VM080322	0.2 ppb 8260 ICAL 68-4I
34)	Sample	20	113034	VM080322	0.5 ppb 8260 ICAL 68-4J
35)	Sample	21	113035	VM080322	1 ppb 8260 ICAL 68-4K
36)	Sample	22	113036	VM080322	2 ppb 8260 ICAL 68-4L
37)	Sample	23	113037	VM080322	5 ppb 8260 ICAL 68-4M
38)	Sample	24	113038	VM080322	10 ppb 8260 ICAL 68-4N
39)	Sample	25	113039	VM080322	20 ppb 8260 ICAL 68-4O
40)	Sample	26	113040	VM080322	50 ppb 8260 ICAL 68-4Q
41)	Sample	27	113041	VM080322	100 ppb 8260 ICAL 68-4S



Sequence Name: D:\GCMS13\sequence\11-30-22.sequence.xml

Comment:

Operator: LM

Data Path: D:\GCMS13\GCMS13\_Data\11-30-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

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42)	Sample	28	113042	VM080322	150 ppb	8260	ICAL	68-4T
43)	Sample	29	113043	VM080322	200 ppb	8260	ICAL	68-4U
44)	Sample	30	113044	VM080322	rinse			
45)	Sample	31	113045	VM080322	10 ppb	8260	SCV	68-7C
46)	Sample	100	113046	VM080322	rinse			
47)	Sample	100	113047	VM080322	rinse			
48)	Sample	100	113048	VM080322	rinse			
49)	Sample	100	113049	VM080322	rinse			

## Injection Log

Data Directory: Y:\Proc\_GCMS13\11-30-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 113001.D rinse	VM080322.M	100	1.000	30 Nov 2022 05:03 am
2) 113002.D rinse	VM080322.M	100	1.000	30 Nov 2022 05:26 am
3) 113003.D 10 ppb 8260 CCV 68.. soil/water	VM080322.M	1	1.000	30 Nov 2022 05:49 am
4) 113004.D 02-2830 lcs	VM080322.M water	2	1.000	30 Nov 2022 06:12 am
5) 113005.D 02-2830 lcsd	VM080322.M water	3	1.000	30 Nov 2022 06:36 am
6) 113006.D rinse	VM080322.M	100	1.000	30 Nov 2022 06:59 am
7) 113007.D 02-2830 mb	VM080322.M water	4	1.000	30 Nov 2022 07:22 am
8) 113008.D 02-2829 mb 1/0.25	VM080322.M water	5	1.000	30 Nov 2022 07:45 am
9) 113009.D 211328-01	VM080322.M water	6	1.000	30 Nov 2022 10:35 am
10) 113010.D 211348-01	VM080322.M water	7	1.000	30 Nov 2022 10:58 am
11) 113011.D 211389-01	VM080322.M water	8	1.000	30 Nov 2022 11:22 am
12) 113012.D 211389-02	VM080322.M water	9	1.000	30 Nov 2022 11:45 am
13) 113013.D 211313-01	VM080322.M water	10	1.000	30 Nov 2022 12:08 pm
14) 113014.D 211313-02 1/100	VM080322.M water	11	1.000	30 Nov 2022 12:31 pm
15) 113015.D 211379-01 1/5	VM080322.M water	12	1.000	30 Nov 2022 12:55 pm
16) 113016.D 211389-03	VM080322.M water	13	1.000	30 Nov 2022 01:18 pm
17) 113017.D rinse	VM080322.M water	100	1.000	30 Nov 2022 01:41 pm
18) 113018.D rinse	VM080322.M water	100	1.000	30 Nov 2022 02:04 pm
19) 113019.D 211348-01 1/50	VM080322.M water	14	1.000	30 Nov 2022 02:27 pm
20) 113020.D rinse	VM080322.M water	100	1.000	30 Nov 2022 02:50 pm
21) 113021.D	VM080322.M			

*found*

rinse	water	100	1.000	30 Nov 2022	03:12 pm
22) 113022.D	VM080322.M				
10 ppb test	water	15	1.000	30 Nov 2022	05:06 pm
23) 113023.D	VM080322.M				
50 ng BFB 67-156A	direct inject	100	1.000	30 Nov 2022	07:39 pm
24) 113024.D	VM080322.M				
rinse		100	1.000	30 Nov 2022	08:26 pm
25) 113025.D	VM080322.M				
rinse		100	1.000	30 Nov 2022	08:49 pm
26) 113026.D	VM080322.M				
rinse		100	1.000	30 Nov 2022	09:11 pm
27) 113027.D	VM080322.M				
rinse		100	1.000	30 Nov 2022	09:34 pm
28) 113028.D	VM080322.M				
rinse		100	1.000	30 Nov 2022	09:57 pm
29) 113029.D	VM080322.M				
rinse		100	1.000	30 Nov 2022	10:20 pm
30) 113030.D	VM080322.M				
0.02 ppb 8260 ICAL.. soil/water		16	1.000	30 Nov 2022	10:43 pm
31) 113031.D	VM080322.M				
0.04 ppb 8260 ICAL.. soil/water		17	1.000	30 Nov 2022	11:06 pm
32) 113032.D	VM080322.M				
0.1 ppb 8260 ICAL .. soil/water		18	1.000	30 Nov 2022	11:29 pm
33) 113033.D	VM080322.M				
0.2 ppb 8260 ICAL .. soil/water		19	1.000	30 Nov 2022	11:52 pm
34) 113034.D	VM080322.M				
0.5 ppb 8260 ICAL .. soil/water		20	1.000	01 Dec 2022	12:15 am
35) 113035.D	VM080322.M				
1 ppb 8260 ICAL 68.. soil/water		21	1.000	01 Dec 2022	12:39 am
36) 113036.D	VM080322.M				
2 ppb 8260 ICAL 68.. soil/water		22	1.000	01 Dec 2022	01:02 am
37) 113037.D	VM080322.M				
5 ppb 8260 ICAL 68.. soil/water		23	1.000	01 Dec 2022	01:25 am
38) 113038.D	VM080322.M				
10 ppb 8260 ICAL 6.. soil/water		24	1.000	01 Dec 2022	01:49 am
39) 113039.D	VM080322.M				
20 ppb 8260 ICAL 6.. soil/water		25	1.000	01 Dec 2022	02:12 am
40) 113040.D	VM080322.M				
50 ppb 8260 ICAL 6.. soil/water		26	1.000	01 Dec 2022	02:35 am
41) 113041.D	VM080322.M				
100 ppb 8260 ICAL .. soil/water		27	1.000	01 Dec 2022	02:58 am
42) 113042.D	VM080322.M				
150 ppb 8260 ICAL .. soil/water		28	1.000	01 Dec 2022	03:22 am
43) 113043.D	VM080322.M				
200 ppb 8260 ICAL .. soil/water		29	1.000	01 Dec 2022	03:45 am

44) 113044.D	VM080322.M					
rinse	soil/water	30	1.000	01 Dec 2022	04:08	am
-----						
45) 113045.D	VM080322.M					
10 ppb 8260 SCV 68..	soil/water	31	1.000	01 Dec 2022	04:31	am
-----						
46) 113046.D	VM080322.M					
rinse		100	1.000	01 Dec 2022	04:53	am
-----						
47) 113047.D	VM080322.M					
rinse		100	1.000	01 Dec 2022	05:16	am
-----						
48) 113048.D	VM080322.M					
rinse		100	1.000	01 Dec 2022	05:39	am
-----						
49) 113049.D	VM080322.M					
rinse		100	1.000	01 Dec 2022	06:02	am
-----						

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-02-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

*m 12/5*

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	120201	VM080522	rinse
2)	Sample	1	120202	VM080522	10 ppb 8260 SCV 68-26-c
3)	Sample	100	120203	VM080522	rinse
4)	Sample	100	120204	VM080522	rinse
5)	Sample	100	120205	VM080522	rinse
6)	Sample	2	120206	VM080522	10 ppb 8260 SCV 68-26c
7)	Sample	100	120207	VM080522	50 ng BFB 67-156A
8)	Sample	100	120208	VM080522	rinse
9)	Sample	100	120209	VM080522	rinse
10)	Sample	100	120210	VM080522	rinse
11)	Sample	100	120211	VM080522	rinse
12)	Sample	3	12021 <del>3</del> <sup>13</sup>	VM080522	0.02 ppb 8260 ICAL 68-4F
13)	Sample	4	12021 <del>3</del> <sup>14</sup>	VM080522	0.04 ppb 8260 ICAL 68-4G
14)	Sample	5	12021 <del>4</del> <sup>15</sup>	VM080522	0.1 ppb 8260 ICAL 68-4H
15)	Sample	6	12021 <del>5</del> <sup>16</sup>	VM080522	0.2 ppb 8260 ICAL 68-4I
16)	Sample	7	12021 <del>6</del> <sup>17</sup>	VM080522	0.5 ppb 8260 ICAL 68-4J
17)	Sample	8	12021 <del>7</del> <sup>18</sup>	VM080522	1 ppb 8260 ICAL 68-4K
18)	Sample	9	12021 <del>8</del> <sup>19</sup>	VM080522	2 ppb 8260 ICAL 68-4L
19)	Sample	10	12021 <del>9</del> <sup>20</sup>	VM080522	5 ppb 8260 ICAL 68-4M
20)	Sample	11	12022 <del>0</del> <sup>21</sup>	VM080522	10 ppb 8260 ICAL 68-4N
21)	Sample	12	12022 <del>1</del> <sup>22</sup>	VM080522	20 ppb 8260 ICAL 68-4O
22)	Sample	13	12022 <del>2</del> <sup>23</sup>	VM080522	50 ppb 8260 ICAL 68-4Q
23)	Sample	14	12022 <del>3</del> <sup>24</sup>	VM080522	100 ppb 8260 ICAL 68-4S
24)	Sample	15	12022 <del>4</del> <sup>25</sup>	VM080522	150 ppb 8260 ICAL 68-4T
25)	Sample	16	12022 <del>5</del> <sup>26</sup>	VM080522	200 ppb 8260 ICAL 68-4U
26)	Sample	17	12022 <del>6</del> <sup>27</sup>	VM080522	rinse
27)	Sample	18	12022 <del>7</del> <sup>28</sup>	VM080522	10 ppb 8260 SCV 68-26C
28)	Sample	100	120228	VM080522	rinse
29)	Sample	100	120229	VM080522	rinse
30)	Sample	100	120230	VM080522	rinse
31)	Sample	100	120231	VM080522	rinse

*m 12/5*

Injection Log

Data Directory: Y:\Proc\_GCMS11\12-02-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120201.D rinse	VM080522.M	100	1.000	02 Dec 2022 12:45 pm
2) 120202.D 10 ppb 8260 SCV 68.. soil/water	VM080522.M	100	1.000	02 Dec 2022 01:08 pm
3) 120207.D 50 ng BFB 67-156A direct inject	VM080522.M	100	1.000	02 Dec 2022 06:48 pm
4) 120208.D rinse	VM080522.M	100	1.000	02 Dec 2022 07:25 pm
5) 120209.D rinse	VM080522.M	100	1.000	02 Dec 2022 07:48 pm
6) 120210.D rinse	VM080522.M	100	1.000	02 Dec 2022 08:11 pm
7) 120211.D rinse	VM080522.M	100	1.000	02 Dec 2022 08:34 pm
8) 120212.D <i>1.70</i> 0.02 ppb 8260 ICAL.. soil/water	VM080522.M	3	1.000	02 Dec 2022 08:57 pm
9) 120213.D 0.04 ppb 8260 ICAL.. soil/water	VM080522.M	4	1.000	02 Dec 2022 09:20 pm <i>sample</i>
10) 120214.D 0.1 ppb 8260 ICAL .. soil/water	VM080522.M	5	1.000	02 Dec 2022 09:43 pm <i>VDS</i>
11) 120215.D 0.2 ppb 8260 ICAL .. soil/water	VM080522.M	6	1.000	02 Dec 2022 10:06 pm
12) 120216.D 0.5 ppb 8260 ICAL .. soil/water	VM080522.M	7	1.000	02 Dec 2022 10:29 pm
13) 120217.D 1 ppb 8260 ICAL 68.. soil/water	VM080522.M	8	1.000	02 Dec 2022 10:53 pm
14) 120218.D 2 ppb 8260 ICAL 68.. soil/water	VM080522.M	9	1.000	02 Dec 2022 11:16 pm
15) 120219.D 5 ppb 8260 ICAL 68.. soil/water	VM080522.M	10	1.000	02 Dec 2022 11:39 pm
16) 120220.D 10 ppb 8260 ICAL 6.. soil/water	VM080522.M	11	1.000	03 Dec 2022 12:02 am
17) 120221.D 20 ppb 8260 ICAL 6.. soil/water	VM080522.M	12	1.000	03 Dec 2022 12:25 am
18) 120222.D 50 ppb 8260 ICAL 6.. soil/water	VM080522.M	13	1.000	03 Dec 2022 12:49 am
19) 120223.D 100 ppb 8260 ICAL .. soil/water	VM080522.M	14	1.000	03 Dec 2022 01:12 am
20) 120224.D 150 ppb 8260 ICAL .. soil/water	VM080522.M	15	1.000	03 Dec 2022 01:35 am
21) 120225.D	VM080522.M			

<del>200 ppb</del> 8260 ICAL .. soil/water		16	1.000	03 Dec 2022	01:58 am
22) 120226.D	VM080522.M				
<del>rinse</del> <i>700 ppb</i> soil/water		17	1.000	03 Dec 2022	02:21 am
23) 120227.D	VM080522.M				
<del>10 ppb 8260 SCV 68 .. soil/water</del>		18	1.000	03 Dec 2022	02:45 am
24) 120228.D	VM080522.M				
<del>rinse</del> <i>second service</i>		100	1.000	03 Dec 2022	03:08 am
25) 120229.D	VM080522.M				
rinse		100	1.000	03 Dec 2022	03:31 am
26) 120230.D	VM080522.M				
rinse		100	1.000	03 Dec 2022	03:54 am
27) 120231.D	VM080522.M				
rinse		100	1.000	03 Dec 2022	04:17 am

## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-02-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120201.D rinse	VM080522.M	100	1.000	02 Dec 2022 12:45 pm
2) 120202.D 10 ppb 8260 SCV 68..	soil/water VM080522.M	100	1.000	02 Dec 2022 01:08 pm
3) 120207.D 50 ng BFB 67-156A	direct inject VM080522.M	100	1.000	02 Dec 2022 06:48 pm
4) 120208.D rinse	VM080522.M	100	1.000	02 Dec 2022 07:25 pm
5) 120209.D rinse	VM080522.M	100	1.000	02 Dec 2022 07:48 pm
6) 120210.D rinse	VM080522.M	100	1.000	02 Dec 2022 08:11 pm
7) 120211.D rinse	VM080522.M	100	1.000	02 Dec 2022 08:34 pm
8) 120212.D rinse	soil/water VM080522.M	3	1.000	02 Dec 2022 08:57 pm
9) 120213.D 0.02 ppb 8260 ICAL	soil/water VM080522.M	4	1.000	02 Dec 2022 09:20 pm
10) 120214.D 0.04 ppb 8260 ICAL..	soil/water VM080522.M	5	1.000	02 Dec 2022 09:43 pm
11) 120215.D 0.1 ppb 8260 ICAL ..	soil/water VM080522.M	6	1.000	02 Dec 2022 10:06 pm
12) 120216.D 0.2 ppb 8260 ICAL ..	soil/water VM080522.M	7	1.000	02 Dec 2022 10:29 pm
13) 120217.D 0.5 ppb 8260 ICAL ..	soil/water VM080522.M	8	1.000	02 Dec 2022 10:53 pm
14) 120218.D 1 ppb 8260 ICAL 68..	soil/water VM080522.M	9	1.000	02 Dec 2022 11:16 pm
15) 120219.D 2 ppb 8260 ICAL 68..	soil/water VM080522.M	10	1.000	02 Dec 2022 11:39 pm
16) 120220.D 5 ppb 8260 ICAL 68..	soil/water VM080522.M	11	1.000	03 Dec 2022 12:02 am
17) 120221.D 10 ppb 8260 ICAL 6..	soil/water VM080522.M	12	1.000	03 Dec 2022 12:25 am
18) 120222.D 20 ppb 8260 ICAL 6..	soil/water VM080522.M	13	1.000	03 Dec 2022 12:49 am
19) 120223.D 50 ppb 8260 ICAL 6..	soil/water VM080522.M	14	1.000	03 Dec 2022 01:12 am
20) 120224.D 100 ppb 8260 ICAL ..	soil/water VM080522.M	15	1.000	03 Dec 2022 01:35 am
21) 120225.D	VM080522.M			



150 ppb 8260 ICAL .. soil/water		16	1.000	03 Dec 2022	01:58 am
22) 120226.D	VM080522.M				
200 ppb 8260 ICAL .. soil/water		17	1.000	03 Dec 2022	02:21 am
23) 120227.D	VM080522.M				
rinse .	soil/water	18	1.000	03 Dec 2022	02:45 am
24) 120228.D	VM080522.M				
10 ppb 8260 SCV 68..		100	1.000	03 Dec 2022	03:08 am
25) 120229.D	VM080522.M				
rinse		100	1.000	03 Dec 2022	03:31 am
26) 120230.D	VM080522.M				
rinse		100	1.000	03 Dec 2022	03:54 am
27) 120231.D	VM080522.M				
rinse		100	1.000	03 Dec 2022	04:17 am

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-12-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

12/13 DM

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

Line Type	ALS	File	Method	Sample Name/Misc Info
1) Sample	100	121201	VM080522	rinse
2) Sample	100	121202	VM080522	rinse
3) Sample	1	121203	VM080522	10 ppb 8260 CCV 67-150N
4) Sample	2	121204	VM080522	02-2866 lcs
5) Sample	3	121205	VM080522	02-2866 lcsd
6) Sample	100	121206	VM080522	rinse
7) Sample	4	121207	VM080522	02-2866 mb
8) Sample	5	121208	VM080522	02-2865 mb 1/0.25
9) Sample	100	121209	VM080522	rinse
10) Sample	100	121210	VM080522	rinse
11) Sample	100	121211	VM080522	rinse
12) Sample	100	121212	VM080522	rinse
13) Pause				
14) Sample	100	121213	VM080522	rinse
15) Sample	100	121214	VM080522	rinse
16) Sample	6	121215	VM080522	blank no inject
17) Sample	100	121216	VM080522	rinse
18) Sample	100	121217	VM080522	rinse
19) Sample	100	121218	VM080522	rinse
20) Sample	100	121219	VM080522	rinse
21) Sample	100	121220	VM080522	rinse
22) Sample	100	121221	VM080522	rinse
23) Sample	100	121222	VM080522	rinse
24) Sample	100	121223	VM080522	50 ng BFB 67-152A
25) Sample	100	121224	VM080522	rinse
26) Sample	100	121225	VM080522	rinse
27) Sample	100	121226	VM080522	rinse
28) Sample	100	121227	VM080522	rinse
29) Sample	6	121228	VM080522	0.02 ppb 8260 ICAL 68-25F
30) Sample	7	121229	VM080522	0.04 ppb 8260 ICAL 68-25G
31) Sample	8	121230	VM080522	0.1 ppb 8260 ICAL 68-25H
32) Sample	9	121231	VM080522	0.2 ppb 8260 ICAL 68-25I
33) Sample	10	121232	VM080522	0.5 ppb 8260 ICAL 68-25J
34) Sample	11	121233	VM080522	1 ppb 8260 ICAL 68-25K
35) Sample	12	121234	VM080522	2 ppb 8260 ICAL 68-25L
36) Sample	13	121235	VM080522	5 ppb 8260 ICAL 68-25M
37) Sample	14	121236	VM080522	10 ppb 8260 ICAL 68-25N
38) Sample	15	121237	VM080522	20 ppb 8260 ICAL 68-25O
39) Sample	16	121238	VM080522	50 ppb 8260 ICAL 68-25Q
40) Sample	17	121239	VM080522	100 ppb 8260 ICAL 68-25S
41) Sample	18	121240	VM080522	150 ppb 8260 ICAL 68-25T

Sequence Name: D:\GCMS11\sequence\12-12-22.sequence.xml

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-12-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

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42)	Sample	19	121241	VM080522	200 ppb	8260 ICAL	68-25U
43)	Sample	20	121242	VM080522	rinse		
44)	Sample	21	121243	VM080522	10 ppb	8260 SCV	68-26C
45)	Sample	100	121244	VM080522	rinse		
46)	Sample	100	121245	VM080522	rinse		
47)	Sample	100	121246	VM080522	rinse		
48)	Sample	100	121247	VM080522	rinse		

## Injection Log

Data Directory: D:\Proc\_GCMS11\12-12-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 121210.D No data found	VM080522.M		0.000	N/A
2) 121201.D rinse	VM080522.M	100	1.000	12 Dec 2022 07:16 am
3) 121202.D rinse	VM080522.M	100	1.000	12 Dec 2022 07:38 am
4) 121203.D 10 ppb 8260 CCV 67..	soil/water VM080522.M	1	1.000	12 Dec 2022 08:00 am
5) 121204.D 02-2866 lcs	water VM080522.M	2	1.000	12 Dec 2022 08:23 am
6) 121205.D 02-2866 lcsd	water VM080522.M	3	1.000	12 Dec 2022 08:45 am
7) 121206.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 09:07 am
8) 121207.D 02-2866 mb	water VM080522.M	4	1.000	12 Dec 2022 09:30 am
9) 121208.D 02-2865 mb 1/0.25	soil VM080522.M	5	1.000	12 Dec 2022 09:52 am
10) 121209.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 11:25 am
11) 121211.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 01:34 pm
12) 121212.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 01:56 pm
13) 121213.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 02:29 pm
14) 121214.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 02:51 pm
15) 121215.D blank no inject	soil/water VM080522.M	6	1.000	12 Dec 2022 03:14 pm
16) 121216.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 04:54 pm
17) 121217.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 05:16 pm
18) 121218.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 05:38 pm
19) 121219.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 06:00 pm

20) 121220.D	VM080522.M						
rinse	soil/water	100	1.000	12 Dec 2022	06:22	pm	
21) 121221.D	VM080522.M						
rinse	soil/water	100	1.000	12 Dec 2022	06:45	pm	
22) 121222.D	VM080522.M						
rinse	soil/water	100	1.000	12 Dec 2022	07:07	pm	
23) 121223.D	VM080522.M						
50 ng BFB 67-152A	direct inject	100	1.000	12 Dec 2022	08:09	pm	
24) 121224.D	VM080522.M						
rinse		100	1.000	12 Dec 2022	09:07	pm	
25) 121225.D	VM080522.M						
rinse		100	1.000	12 Dec 2022	09:29	pm	
26) 121226.D	VM080522.M						
rinse		100	1.000	12 Dec 2022	09:52	pm	
27) 121227.D	VM080522.M						
rinse		100	1.000	12 Dec 2022	10:14	pm	
28) 121228.D	VM080522.M						
0.02 ppb 8260 ICAL..	soil/water	6	1.000	12 Dec 2022	10:36	pm	
29) 121229.D	VM080522.M						
0.04 ppb 8260 ICAL..	soil/water	7	1.000	12 Dec 2022	10:59	pm	
30) 121230.D	VM080522.M						
0.1 ppb 8260 ICAL ..	soil/water	8	1.000	12 Dec 2022	11:21	pm	
31) 121231.D	VM080522.M						
0.2 ppb 8260 ICAL ..	soil/water	9	1.000	12 Dec 2022	11:44	pm	
32) 121232.D	VM080522.M						
0.5 ppb 8260 ICAL ..	soil/water	10	1.000	13 Dec 2022	12:06	am	
33) 121233.D	VM080522.M						
1 ppb 8260 ICAL 68..	soil/water	11	1.000	13 Dec 2022	12:29	am	
34) 121234.D	VM080522.M						
2 ppb 8260 ICAL 68..	soil/water	12	1.000	13 Dec 2022	12:51	am	
35) 121235.D	VM080522.M						
5 ppb 8260 ICAL 68..	soil/water	13	1.000	13 Dec 2022	01:14	am	
36) 121236.D	VM080522.M						
10 ppb 8260 ICAL 6..	soil/water	14	1.000	13 Dec 2022	01:36	am	
37) 121237.D	VM080522.M						
20 ppb 8260 ICAL 6..	soil/water	15	1.000	13 Dec 2022	01:58	am	
38) 121238.D	VM080522.M						
50 ppb 8260 ICAL 6..	soil/water	16	1.000	13 Dec 2022	02:21	am	
39) 121239.D	VM080522.M						
100 ppb 8260 ICAL ..	soil/water	17	1.000	13 Dec 2022	02:43	am	
40) 121240.D	VM080522.M						
150 ppb 8260 ICAL ..	soil/water	18	1.000	13 Dec 2022	03:06	am	

41) 121241.D	VM080522.M					
200 ppb 8260 ICAL .. soil/water		19	1.000	13 Dec 2022	03:28	am
42) 121242.D	VM080522.M					
rinse soil/water		20	1.000	13 Dec 2022	03:51	am
43) 121243.D	VM080522.M					
10 ppb 8260 SCV 68.. soil/water		21	1.000	13 Dec 2022	04:13	am
44) 121244.D	VM080522.M					
rinse		100	1.000	13 Dec 2022	04:35	am
45) 121245.D	VM080522.M					
rinse		100	1.000	13 Dec 2022	04:58	am
46) 121246.D	VM080522.M					
rinse		100	1.000	13 Dec 2022	05:20	am
47) 121247.D	VM080522.M					
rinse		100	1.000	13 Dec 2022	05:42	am

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-07-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	120701	VM080522	rinse
2)	Sample	1	120702	VM080522	10 ppb 8260 CCV 67-192N
3)	Sample	100	120703	VM080522	rinse
4)	Sample	100	120704	VM080522	rinse
5)	Sample	2	120705	VM080522	212059-01
6)	Sample	2	120706	VM080522	212081-01
7)	Sample	2	120707	VM080522	212081-02
8)	Sample	2	120708	VM080522	212081-03
9)	Sample	6	120709	VM080522	212079-03
10)	Sample	7	120710	VM080522	212079-01 1/10
11)	Sample	8	120711	VM080522	212079-02 1/10
12)	Sample	100	120712	VM080522	rinse
13)	Sample	9	120713	VM080522	212052-01
14)	Sample	10	120714	VM080522	212053-01
15)	Sample	11	120715	VM080522	212035-01
16)	Sample	12	120716	VM080522	212059-03
17)	Sample	13	120717	VM080522	212059-04
18)	Sample	14	120718	VM080522	212059-05
19)	Sample	15	120719	VM080522	212059-06
20)	Sample	16	120720	VM080522	212059-07 1/100
21)	Sample	17	120721	VM080522	212059-08
22)	Sample	18	120722	VM080522	212059-02
23)	Sample	19	120723	VM080522	212092-07
24)	Sample	100	120724	VM080522	rinse
25)	Sample	20	120725	VM080522	10 ppb 8260 CCV 68-25N
26)	Sample	21	120726	VM080522	02-2856 lcs rr
27)	Sample	22	120727	VM080522	02-2856 lcsd rr
28)	Sample	23	120728	VM080522	212059-02 ms
29)	Sample	100	120729	VM080522	rinse
30)	Sample	100	120730	VM080522	rinse
31)	Sample	24	120731	VM080522	02-2856 mb rr

No PID ID check ID B12/8  
 checked against  
 LOC  
 W

## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-07-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120701.D rinse	VM080522.M soil/water	100	1.000	07 Dec 2022 05:29 am
2) 120702.D 10 ppb 8260 CCV 67..	VM080522.M soil/water	1	1.000	07 Dec 2022 05:52 am
3) 120703.D rinse	VM080522.M soil/water	100	1.000	07 Dec 2022 08:08 am
4) 120704.D rinse	VM080522.M soil/water	100	1.000	07 Dec 2022 08:30 am
5) 120705.D 212059-01	VM080522.M water	2	1.000	07 Dec 2022 08:53 am
6) 120706.D 212081-01	VM080522.M water	2	1.000	07 Dec 2022 09:35 am
7) 120707.D 212081-02	VM080522.M water	2	1.000	07 Dec 2022 09:57 am
8) 120708.D 212081-03	VM080522.M water	2	1.000	07 Dec 2022 10:21 am
9) 120709.D 212079-03	VM080522.M water	6	1.000	07 Dec 2022 10:44 am
10) 120710.D 212079-01 1/10	VM080522.M water	7	1.000	07 Dec 2022 11:08 am
11) 120711.D 212079-02 1/10	VM080522.M water	8	1.000	07 Dec 2022 11:31 am
12) 120712.D rinse	VM080522.M water	100	1.000	07 Dec 2022 11:54 am
13) 120713.D 212052-01	VM080522.M water	9	1.000	07 Dec 2022 12:18 pm
14) 120714.D 212053-01	VM080522.M water	10	1.000	07 Dec 2022 12:41 pm
15) 120715.D 212035-01	VM080522.M water	11	1.000	07 Dec 2022 01:05 pm
16) 120716.D 212059-03	VM080522.M water	12	1.000	07 Dec 2022 01:28 pm
17) 120717.D 212059-04	VM080522.M water	13	1.000	07 Dec 2022 01:52 pm
18) 120718.D 212059-05	VM080522.M water	14	1.000	07 Dec 2022 02:15 pm
19) 120719.D 212059-06	VM080522.M water	15	1.000	07 Dec 2022 02:39 pm
20) 120720.D 212059-07 1/100	VM080522.M water	16	1.000	07 Dec 2022 03:02 pm
21) 120721.D	VM080522.M			



212059-08	water		17	1.000	07 Dec 2022	03:25 pm
22) 120722.D		VM080522.M				
212059-02	water		18	1.000	07 Dec 2022	03:49 pm
23) 120723.D		VM080522.M				
212092-07	water		19	1.000	07 Dec 2022	04:12 pm
24) 120724.D		VM080522.M				
rinse	water		100	1.000	07 Dec 2022	04:36 pm
25) 120725.D		VM080522.M				
10 ppb 8260 CCV 68..	water		20	1.000	07 Dec 2022	04:59 pm
26) 120726.D		VM080522.M				
02-2856 lcs rr	water		21	1.000	07 Dec 2022	05:23 pm
27) 120727.D		VM080522.M				
02-2856 lcsd rr	water		22	1.000	07 Dec 2022	05:46 pm
28) 120728.D		VM080522.M				
212059-02 ms	water		23	1.000	07 Dec 2022	06:10 pm
29) 120729.D		VM080522.M				
rinse	water		100	1.000	07 Dec 2022	06:34 pm
30) 120730.D		VM080522.M				
rinse	water		100	1.000	07 Dec 2022	06:57 pm
31) 120731.D		VM080522.M				
02-2856 mb rr	water		24	1.000	07 Dec 2022	07:21 pm

Comment:

Operator: lm

Data Path: D:\GCMS13\GCMS13\_Data\12-09-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

*12/11 PM*

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

Line Type	ALS	File	Method	Sample Name/Misc Info
1) Sample	100	120901	VM080322	rinse
2) Sample	100	120902	VM080322	rinse
3) Sample	1	120903	VM080322	10 ppb 8260 CCV 67-97N
4) Sample	100	120904	VM080322	rinse
5) Sample	100	120905	VM080322	rinse
6) Sample	2	120906	VM080322	02-2856 mb rr
7) Sample	3	120907	VM080322	02-2859 mb2
8) Sample	4	120908	VM080322	212083-01 rr
9) Sample	5	120909	VM080322	212113-01 rr
10) Sample	6	120910	VM080322	212060-01 rr
11) Sample	7	120911	VM080322	212060-05 rr
12) Sample	8	120912	VM080322	212060-06 rr
13) Sample	9	120913	VM080322	212113-02
14) Sample	10	120914	VM080322	212113-03
15) Sample	11	120915	VM080322	212113-04 1/5
16) Sample	12	120916	VM080322	212113-05
17) Sample	13	120917	VM080322	<del>212098-02</del> 212083
18) Sample	14	120918	VM080322	<del>212098-03</del>
19) Sample	15	120919	VM080322	<del>212098-04</del>
20) Sample	16	120920	VM080322	<del>212098-05</del>
21) Sample	17	120921	VM080322	<del>212098-06</del>
22) Sample	18	120922	VM080322	<del>212098-07</del>
23) Sample	100	120923	VM080322	rinse

*12/11 PM*  
*2/21*

*212083*  
*12/11 PM*  
*1/10*  
*1/10*

## Injection Log

Data Directory: Y:\Proc\_GCMS13\12-09-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120901.D rinse	VM080322.M	100	1.000	09 Dec 2022 07:43 am
2) 120902.D rinse	VM080322.M	100	1.000	09 Dec 2022 08:06 am
3) 120903.D 10 ppb 8260 CCV 67.. soil/water	VM080322.M	1	1.000	09 Dec 2022 08:29 am
4) 120904.D rinse	VM080322.M	100	1.000	09 Dec 2022 10:06 am
5) 120905.D rinse	VM080322.M	100	1.000	09 Dec 2022 10:28 am
6) 120906.D 02-2856 mb rr	VM080322.M water	2	1.000	09 Dec 2022 10:52 am
7) 120907.D 02-2859 mb2	VM080322.M water	3	1.000	09 Dec 2022 11:15 am
8) 120908.D 212083-01 rr	VM080322.M water	4	1.000	09 Dec 2022 11:38 am
9) 120909.D 212113-01 rr	VM080322.M water	5	1.000	09 Dec 2022 12:02 pm
10) 120910.D 212059-01 rr	VM080322.M water	6	1.000	09 Dec 2022 12:25 pm
11) 120911.D 212059-05 rr	VM080322.M water	7	1.000	09 Dec 2022 12:48 pm
12) 120912.D 212059-06 rr	VM080322.M water	8	1.000	09 Dec 2022 01:11 pm
13) 120913.D 212113-02	VM080322.M water	9	1.000	09 Dec 2022 01:35 pm
14) 120914.D 212113-03	VM080322.M water	10	1.000	09 Dec 2022 01:58 pm
15) 120915.D 212113-04 1/5	VM080322.M water	11	1.000	09 Dec 2022 02:21 pm
16) 120916.D 212113-05	VM080322.M water	12	1.000	09 Dec 2022 02:44 pm
17) 120917.D 212083-02	VM080322.M water	13	1.000	09 Dec 2022 03:07 pm
18) 120918.D 212083-03	VM080322.M water	14	1.000	09 Dec 2022 03:30 pm
19) 120919.D 212083-04 1/10	VM080322.M water	15	1.000	09 Dec 2022 03:54 pm
20) 120920.D 212083-05 1/10	VM080322.M water	16	1.000	09 Dec 2022 04:17 pm
21) 120921.D	VM080322.M			

212083-06	water		17	1.000	09 Dec 2022	04:40 pm
22) 120922.D		VM080322.M				
212083-07	water		18	1.000	09 Dec 2022	05:03 pm
23) 120923.D		VM080322.M				
rinse	water		100	1.000	09 Dec 2022	05:26 pm

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-19-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

B 12/20

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	121901	VM080522	rinse
2)	Sample	100	121902	VM080522	rinse
3)	Sample	1	121903	VM080522	10 ppb 8260 CCV 67-150N
4)	Sample	2	121904	VM080522	02-2971 lcs
5)	Sample	3	121905	VM080522	02-2971 lcsd
6)	Sample	100	121906	VM080522	rinse
7)	Sample	4	121907	VM080522	02-2971 mb
8)	Sample	5	121908	VM080522	02-2964 mb 1/0.25
9)	Sample	6	121909	VM080522	212299-04
10)	Sample	100	121910	VM080522	rinse
11)	Sample	7	121911	VM080522	212059-03 rr 212068-03
12)	Sample	8	121912	VM080522	212286-06
13)	Sample	9	121913	VM080522	212293-02
14)	Sample	10	121914	VM080522	212293-03
15)	Sample	11	121915	VM080522	212293-04
16)	Sample	100	121916a	VM080522	rinse
17)	Sample	11	121917	VM080522	212293-04
18)	Sample	12	121918	VM080522	212293-05
19)	Sample	13	121919	VM080522	212293-06
20)	Sample	14	121920	VM080522	212286-02
21)	Sample	15	121921	VM080522	212286-03
22)	Sample	16	121922	VM080522	212286-04
23)	Sample	17	121923	VM080522	212286-05
24)	Sample	100	121924	VM080522	rinse
25)	Sample	100	121925	VM080522	rinse
26)	Sample	18	121926	VM080522	212286-06 rr

label smudged  
ccc checked  
B 12/20

## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-19-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 121915.D No data found	VM080522.M		0.000	N/A
2) 121912.D No data found	VM080522.M		0.000	N/A
3) 121901.D rinse	VM080522.M	100	1.000	19 Dec 2022 05:36 am
4) 121902.D rinse	VM080522.M	100	1.000	19 Dec 2022 05:58 am
5) 121903.D 10 ppb 8260 CCV 67.. soil/water	VM080522.M	1	1.000	19 Dec 2022 06:21 am
6) 121904.D 02-2971 lcs	VM080522.M water	2	1.000	19 Dec 2022 06:43 am
7) 121905.D 02-2971 lcsd	VM080522.M water	3	1.000	19 Dec 2022 07:05 am
8) 121906.D rinse	VM080522.M soil/water	100	1.000	19 Dec 2022 07:28 am
9) 121907.D 02-2971 mb	VM080522.M water	4	1.000	19 Dec 2022 07:50 am
10) 121908.D 02-2964 mb 1/0.25	VM080522.M soil	5	1.000	19 Dec 2022 08:12 am
11) 121909.D 212299-04	VM080522.M water	6	1.000	19 Dec 2022 10:00 am
12) 121910.D rinse	VM080522.M soil/water	100	1.000	19 Dec 2022 10:22 am
13) 121911.D 212059-03 rr	VM080522.M water	7	1.000	19 Dec 2022 11:30 am
14) 121913.D 212293-02	VM080522.M water	9	1.000	19 Dec 2022 12:18 pm
15) 121914.D 212293-03	VM080522.M water	10	1.000	19 Dec 2022 12:40 pm
16) 121916a.D rinse	VM080522.M water	100	1.000	19 Dec 2022 01:33 pm
17) 121917.D 212293-04	VM080522.M water	11	1.000	19 Dec 2022 01:58 pm
18) 121918.D 212293-05	VM080522.M water	12	1.000	19 Dec 2022 02:20 pm
19) 121919.D 212293-06	VM080522.M water	13	1.000	19 Dec 2022 02:43 pm
20) 121920.D 212286-02	VM080522.M water	14	1.000	19 Dec 2022 03:05 pm
21) 121921.D	VM080522.M			

212286-03	water		15	1.000	19 Dec 2022	03:28 pm
-----						
22) 121922.D		VM080522.M				
212286-04	water		16	1.000	19 Dec 2022	03:50 pm
-----						
23) 121923.D		VM080522.M				
212286-05	water		17	1.000	19 Dec 2022	04:13 pm
-----						
24) 121924.D		VM080522.M				
rinse	soil/water		100	1.000	19 Dec 2022	04:35 pm
-----						
25) 121925.D		VM080522.M				
rinse	soil/water		100	1.000	19 Dec 2022	04:57 pm
-----						
26) 121926.D		VM080522.M				
212286-06 rr	water		18	1.000	19 Dec 2022	05:20 pm
-----						

## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-19-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 121912.D No data found	VM080522.M		0.000	N/A
2) 121901.D rinse	VM080522.M	100	1.000	19 Dec 2022 05:36 am
3) 121902.D rinse	VM080522.M	100	1.000	19 Dec 2022 05:58 am
4) 121903.D 10 ppb 8260 CCV 67.. soil/water	VM080522.M	1	1.000	19 Dec 2022 06:21 am
5) 121904.D 02-2971 lcs	VM080522.M water	2	1.000	19 Dec 2022 06:43 am
6) 121905.D 02-2971 lcsd	VM080522.M water	3	1.000	19 Dec 2022 07:05 am
7) 121906.D rinse	VM080522.M soil/water	100	1.000	19 Dec 2022 07:28 am
8) 121907.D 02-2971 mb	VM080522.M water	4	1.000	19 Dec 2022 07:50 am
9) 121908.D 02-2964 mb 1/0.25	VM080522.M soil	5	1.000	19 Dec 2022 08:12 am
10) 121909.D 212299-04	VM080522.M water	6	1.000	19 Dec 2022 10:00 am
11) 121910.D rinse	VM080522.M soil/water	100	1.000	19 Dec 2022 10:22 am
12) 121911.D 212059-03 rr	VM080522.M water	7	1.000	19 Dec 2022 11:30 am
13) 121913.D 212293-02	VM080522.M water	9	1.000	19 Dec 2022 12:18 pm



# EPA 8260D

## Checklists

# GC/MS ICAL Checklist

Instrument: GC/MS 13

Sequence Date: 11-30-22

Shift # 2

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	✓ LM	12/1
2 <sup>nd</sup> source passed	✓	
Analyte retention time checked	✓	
Tune passed	✓	
Non-Conformance Report filled out (if needed)	NA	

Notes: 0.04 ppb deleted (PREP ERROR)  
by JLM

Attach this sheet to raw data package.

12/1/22 JLM  
 Supervisor Initials and Date

## GC/MS ICAL Checklist

Instrument: GC/MS 11

Sequence Date: 12.02.22

Shift # 1

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	✓ <i>sm</i>	12/5
2 <sup>nd</sup> source passed	✓	
Analyte retention time checked	✓	
Tune passed	✓	
Non-Conformance Report filled out (if needed)	<i>NA</i>	

Notes: 0.04 deleted spike error

Attach this sheet to raw data package.

YA 12/07/22  
Supervisor Initials and Date

# GC/MS ICAL Checklist

Instrument: GC/MS 11

Sequence Date: 12/12/22

Shift # 2

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	Jm	12/15/22
2 <sup>nd</sup> source passed	↓	↓
Analyte retention time checked	↓	↓
Tune passed	↓	↓
Non-Conformance Report filled out (if needed)	↓	↓

Notes: H<sub>2</sub>O ONLY

Attach this sheet to raw data package.

YA 12/15/22  
Supervisor Initials and Date

## GC/MS Data Daily Checklist

Instrument: GC/MS 11

Sequence Date: 12.7.22

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓	12/8
Internal Standards within limits (50-200% of the CCVs for 8260, 8270; 70-130% for 524.2)	✓	1
Surrogate recoveries within limits	✓	1
Laboratory control sample (LCS) recoveries within limits	✓	1
Matrix spike (MS) analyzed	y	1
RPDs within limits	↓	1
Continuing Calibration Analyzed, Evaluated and Passed	acep	1
Non-Conformance Report filled out (if needed)	NA	1

Notes: \_\_\_\_\_

Attach this sheet to raw data package.

YA 12/08/22  
Supervisor Initials and Date

## GC/MS Data Daily Checklist

Instrument: GC/MS 11

Sequence Date: 12.7.22

Shift # 2

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓	12/8
Internal Standards within limits (50-200% of the CCVs for 8260, 8270; 70-130% for 524.2)	✓	
Surrogate recoveries within limits	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Matrix spike (MS) analyzed	✓	
RPDs within limits	✓	
Continuing Calibration Analyzed, Evaluated and Passed	all in	
Non-Conformance Report filled out (if needed)	NA	

Notes: \_\_\_\_\_

Attach this sheet to raw data package.

\_\_\_\_\_  
Supervisor Initials and Date

## GC/MS Data Daily Checklist

Instrument: GC/MS 13

Sequence Date: 12.9.22

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓	12/12
Internal Standards within limits (50-200% of the CCVs for 8260, 8270; 70-130% for 524.2)	✓	
Surrogate recoveries within limits	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Matrix spike (MS) analyzed	N/A	
RPDs within limits	✓	
Continuing Calibration Analyzed, Evaluated and Passed	✓	
Non-Conformance Report filled out (if needed)	✓	

Notes: for PCE + daughters only (VC higher)

Attach this sheet to raw data package.

YA 12/12/22  
Supervisor Initials and Date

**EPA 8260D**  
**Internal Standard/Surrogate Summaries**



GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS13\11-30-22\113023.D

Tune Time : 30 Nov 2022 07:39 pm

Daily Calibration File : Y:\Proc\_GCMS13\11-30-22\113038.D

(DMF) (DHL) (TOL) (BFB)

115315 105054 65344

File	Sample	Surrogate	Recovery %	Internal Standard Responses		
113030.D	0.02 ppb 8	95 104	96 102	136255	113476	70996
113032.D	0.1 ppb 82	98 93	93 103	137091	110964	69191
113033.D	0.2 ppb 82	99 98	97 102	135773	114155	70028
113034.D	0.5 ppb 82	106 107	105 104	123466	111984	68714
113035.D	1 ppb 8260	100 97	95 101	132290	109564	67837
113036.D	2 ppb 8260	97 102	94 101	133517	109857	67912
113037.D	5 ppb 8260	96 98	99 97	129854	107689	65984
113038.D	10 ppb 826	104 103	106 100	115315	105054	65344
113039.D	20 ppb 826	105 104	106 100	113852	103353	63199
113040.D	50 ppb 826	109 107	104 97	111462	99189	62528
113041.D	100 ppb 82	98 92	103 98	119165	103163	63316
113042.D	150 ppb 82	96 93	99 98	117219	99384	63257
113043.D	200 ppb 82	96 102	102 97	117120	100115	62157
113045.D	10 ppb 826	99 93	95 100	124698	103846	61463

(fails) - fails 12hr time check \* - fails criteria

Created: Thu Dec 01 12:46:22 2022 GCMS13

GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS11\12-02-22\120207.D

Tune Time : 02 Dec 2022 06:48 pm

Daily Calibration File : Y:\Proc\_GCMS11\12-02-22\120221.D

(DMF) (DHL) (TOL) (BFB)

43527 35359 19116

File	Sample	Surrogate	Recovery %	Internal	Standard	Responses
120213.D	0.02 ppb 8	97	101 100 101	44408	35154	19419
120214.D	0.04 ppb 8	96	102 96 103	45916	36147	19646
120215.D	0.1 ppb 82	102	99 99 100	45253	34919	19347
120216.D	0.2 ppb 82	103	104 102 96	44274	35020	19757
120217.D	0.5 ppb 82	98	93 96 100	45613	35739	19562
120218.D	1 ppb 8260	101	106 99 101	44408	35243	19491
120219.D	2 ppb 8260	99	92 97 100	44600	35263	18806
120220.D	5 ppb 8260	100	99 97 102	45348	35641	19209
120221.D	10 ppb 826	99	101 103 99	43527	35359	19116
120222.D	20 ppb 826	101	101 101 99	43532	34868	19084
120223.D	50 ppb 826	99	105 102 97	42665	34502	18362
120224.D	100 ppb 82	104	95 104 102	41010	33336	17982
120225.D	150 ppb 82	98	100 104 102	42305	33999	18471
120226.D	200 ppb 82	102	102 100 97	41734	34467	18923
120228.D	10 ppb 826	98	95 98 98	44988	35045	19156

(fails) - fails 12hr time check \* - fails criteria

Created: Mon Dec 05 13:48:39 2022 GCMS11

GC/MS QA-QC Check Report

Tune File : D:\Proc\_GCMS11\12-12-22\121223.D

Tune Time : 12 Dec 2022 08:09 pm

Daily Calibration File : D:\Proc\_GCMS11\12-12-22\121236.D

(DMF) (DHL) (TOL) (BFB)

47211 36478 20261

File	Sample	Surrogate	Recovery %				Internal Standard Responses		
121228.D	0.02 ppb	8	103	92	101	96	49049	38410	21826
121229.D	0.04 ppb	8	107	103	102	100	48253	38658	21365
121230.D	0.1 ppb	82	97	102	103	97	49730	39074	21750
121231.D	0.2 ppb	82	99	103	98	99	48767	38819	21245
121232.D	0.5 ppb	82	98	96	101	101	48353	38043	21492
121233.D	1 ppb	8260	98	91	100	99	48931	38342	20582
121234.D	2 ppb	8260	97	100	99	100	48822	38734	21530
121235.D	5 ppb	8260	98	99	98	97	48803	37344	21151
121236.D	10 ppb	826	101	106	98	101	47211	36478	20261
121237.D	20 ppb	826	101	103	99	101	46537	36436	19498
121238.D	50 ppb	826	99	100	103	97	46625	37972	20328
121239.D	100 ppb	82	103	101	99	100	46224	36627	19904
121240.D	150 ppb	82	99	99	100	106	46540	36065	19550
121241.D	200 ppb	82	102	103	100	104	45831	37397	20078
121243.D	10 ppb	826	95	92	96	102	49036	37606	20495

(fails) - fails 12hr time check \* - fails criteria

Created: Thu Dec 15 12:03:39 2022 GCMS11

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS11\12-07-22\120702.D  
 Tune Time : 07 Dec 2022 05:52 am

Daily Calibration File : Y:\Proc\_GCMS11\12-07-22\120702.D

(DMF) (DHL) (TOL) (BFB)

42952 34617 18977

File	Sample	Surrogate Recovery %				Internal Standard Responses		
=====								
120705.D	212059-01	97	91	100	98	45601	35593	19335
-----								
120706.D	212081-01	99	94	94	99	44605	34707	19508
-----								
120707.D	212081-02	101	96	99	100	45785	35542	19329
-----								
120708.D	212081-03	101	87	98	102	45563	35959	18940
-----								
120709.D	212079-03	99	97	95	106	45274	35987	19027
-----								
120710.D	212079-01	101	106	100	100	44679	35611	19747
-----								
120711.D	212079-02	101	94	98	103	45312	35312	19324
-----								
120713.D	212052-01	100	96	97	102	45464	35073	19041
-----								
120714.D	212053-01	103	94	99	103	45032	35403	18639
-----								
120715.D	212035-01	101	99	102	98	43753	34510	19324
-----								
120716.D	212059-03	101	96	98	102	45036	35958	19204
-----								
120717.D	212059-04	100	99	99	101	44554	35692	19345
-----								
120718.D	212059-05	100	107	100	103	44438	35893	19751
-----								
120719.D	212059-06	100	98	101	100	45129	36118	19201
-----								
120720.D	212059-07	102	100	98	103	44660	36422	19361
-----								
120721.D	212059-08	100	96	100	100	45250	36237	19429
-----								
120722.D	212059-02	100	94	99	99	43595	35440	19472
-----								
120723.D	212092-07	101	95	100	105	44378	36398	19640
-----								

(fails) - fails 12hr time check \* - fails criteria

GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS11\12-07-22\120725.D  
 Tune Time : 07 Dec 2022 04:59 pm

Daily Calibration File : Y:\Proc\_GCMS11\12-07-22\120725.D

(DMF) (DHL) (TOL) (BFB)

44677 34847 19272

File	Sample	Surrogate Recovery %				Internal Standard Responses		
120726.D	02-2856 lc	98	105	99	95	44205	34008	19522
120727.D	02-2856 lc	103	106	104	101	43113	34903	19059
120728.D	<del>02-2059-02</del>	<del>101</del>	<del>102</del>	<del>98</del>	<del>100</del>	<del>43526</del>	<del>36148</del>	<del>18850</del>
120731.D	02-2856 mb	103	98	99	97	45061	36422	19973

(fails) - fails 12hr time check \* - fails criteria

Created: Thu Dec 08 07:53:28 2022 GCMS11

## Injection Log

Data Directory: Y:\Proc\_GCMS13\12-09-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120901.D rinse	VM080322.M	100	1.000	09 Dec 2022 07:43 am
2) 120902.D rinse	VM080322.M	100	1.000	09 Dec 2022 08:06 am
3) 120903.D 10 ppb 8260 CCV 67.. soil/water	VM080322.M	1	1.000	09 Dec 2022 08:29 am
4) 120904.D rinse	VM080322.M	100	1.000	09 Dec 2022 10:06 am
5) 120905.D rinse	VM080322.M	100	1.000	09 Dec 2022 10:28 am
6) 120906.D 02-2856 mb rr	VM080322.M water	2	1.000	09 Dec 2022 10:52 am
7) 120907.D 02-2859 mb2	VM080322.M water	3	1.000	09 Dec 2022 11:15 am
8) 120908.D 212083-01 rr	VM080322.M water	4	1.000	09 Dec 2022 11:38 am
9) 120909.D 212113-01 rr	VM080322.M water	5	1.000	09 Dec 2022 12:02 pm
10) 120910.D 212060-01 rr	VM080322.M water	6	1.000	09 Dec 2022 12:25 pm
11) 120911.D 212060-05 rr	VM080322.M water	7	1.000	09 Dec 2022 12:48 pm
12) 120912.D 212060-06 rr	VM080322.M water	8	1.000	09 Dec 2022 01:11 pm
13) 120913.D 212113-02	VM080322.M water	9	1.000	09 Dec 2022 01:35 pm
14) 120914.D 212113-03	VM080322.M water	10	1.000	09 Dec 2022 01:58 pm
15) 120915.D 212113-04 1/5	VM080322.M water	11	1.000	09 Dec 2022 02:21 pm
16) 120916.D 212113-05	VM080322.M water	12	1.000	09 Dec 2022 02:44 pm
17) 120917.D <del>212098-02</del> <b>212083</b> water	VM080322.M	13	1.000	09 Dec 2022 03:07 pm
18) 120918.D <del>212098-03</del> water	VM080322.M	14	1.000	09 Dec 2022 03:30 pm
19) 120919.D <del>212098-04</del> <b>rr 1/10</b> water	VM080322.M	15	1.000	09 Dec 2022 03:54 pm
20) 120920.D <del>212098-05</del> <b>rr 1/20</b> water	VM080322.M	16	1.000	09 Dec 2022 04:17 pm
21) 120921.D	VM080322.M			

<del>212098-06</del>	water		17	1.000	09 Dec 2022	04:40 pm
-----						
22) 120922.D		VM080322.M				
<del>212098-07</del>	water		18	1.000	09 Dec 2022	05:03 pm
-----						
23) 120923.D		VM080322.M				
rinse	water		100	1.000	09 Dec 2022	05:26 pm
-----						

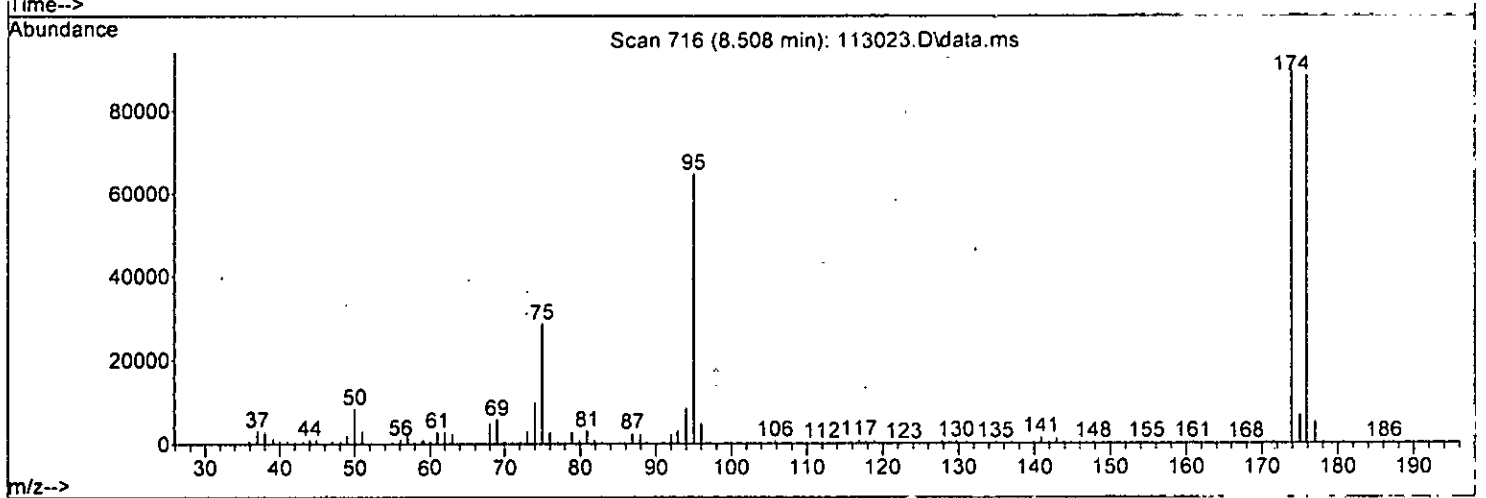
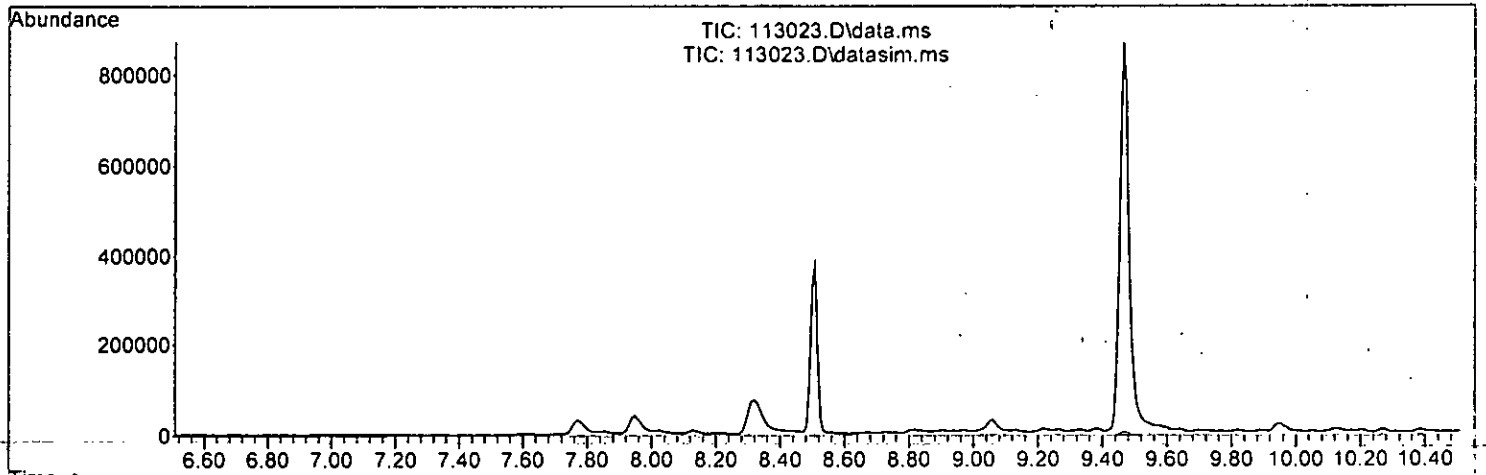
**EPA 8260D**  
**Tune Summaries**



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113023.D  
 Acq On : 30 Nov 2022 07:39 pm  
 Operator : LM  
 Sample : 50 ng BFB 67-156A  
 Misc : direct inject  
 ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: LSCINT.P  
 Integration File signal 2: rteint2.p

Method : Y:\Methods\Inst13\VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:14:23 2022



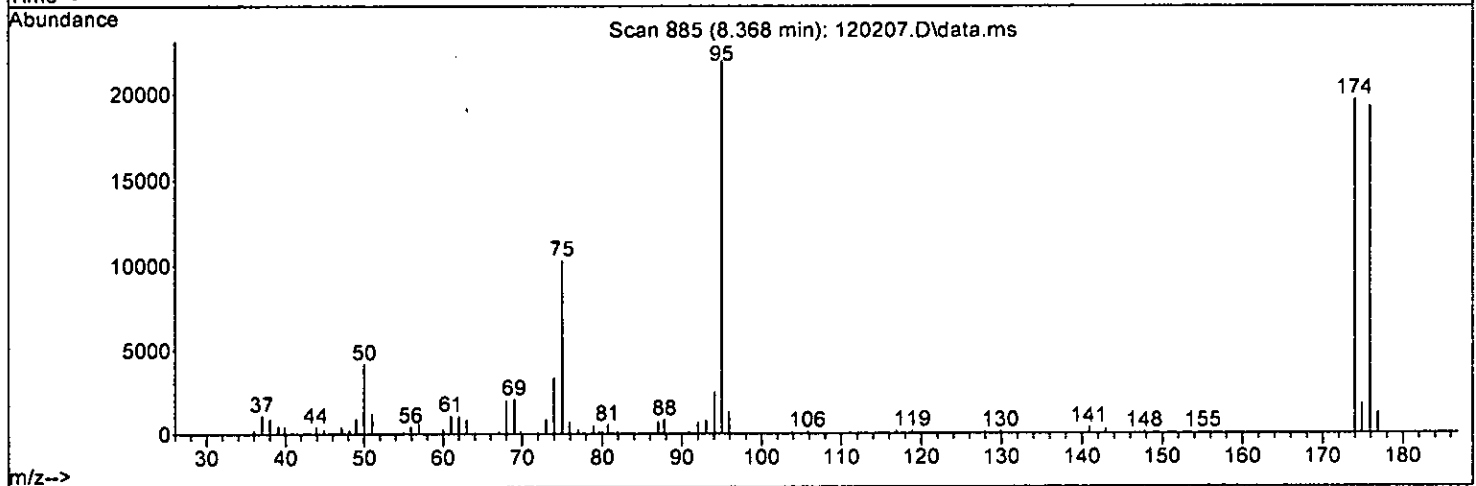
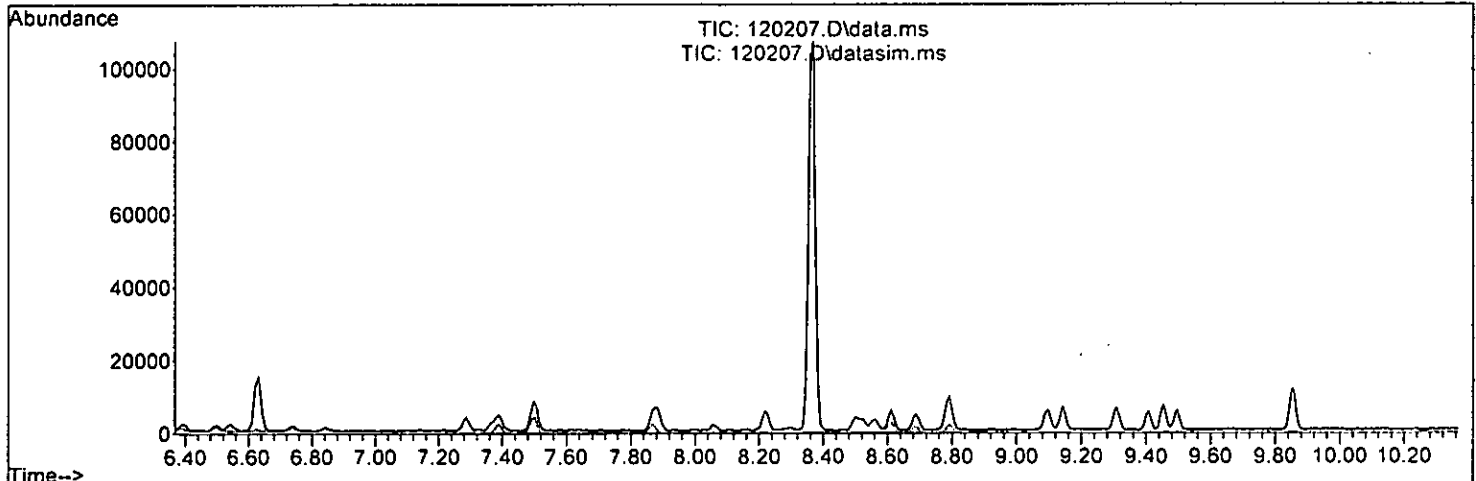
AutoFind: Scan 716 (Apex of m/z 95.0)

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	72.2	64672	PASS
96	95	5	9	7.2	4660	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	138.4	89520	PASS
175	174	5	9	7.5	6716	PASS
176	174	95	105	98.6	88256	PASS
177	176	5	10	5.8	5079	PASS

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120207.D  
 Acq On : 02 Dec 2022 06:48 pm  
 Operator : LM  
 Sample : 50 ng BFB 67-156A  
 Misc : direct inject  
 ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: LSCINT.P  
 Integration File signal 2: rteint2.p

Method : Y:\Methods\Inst11\VB120222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022



AutoFind: Scan 885 (Apex of m/z 95.0)

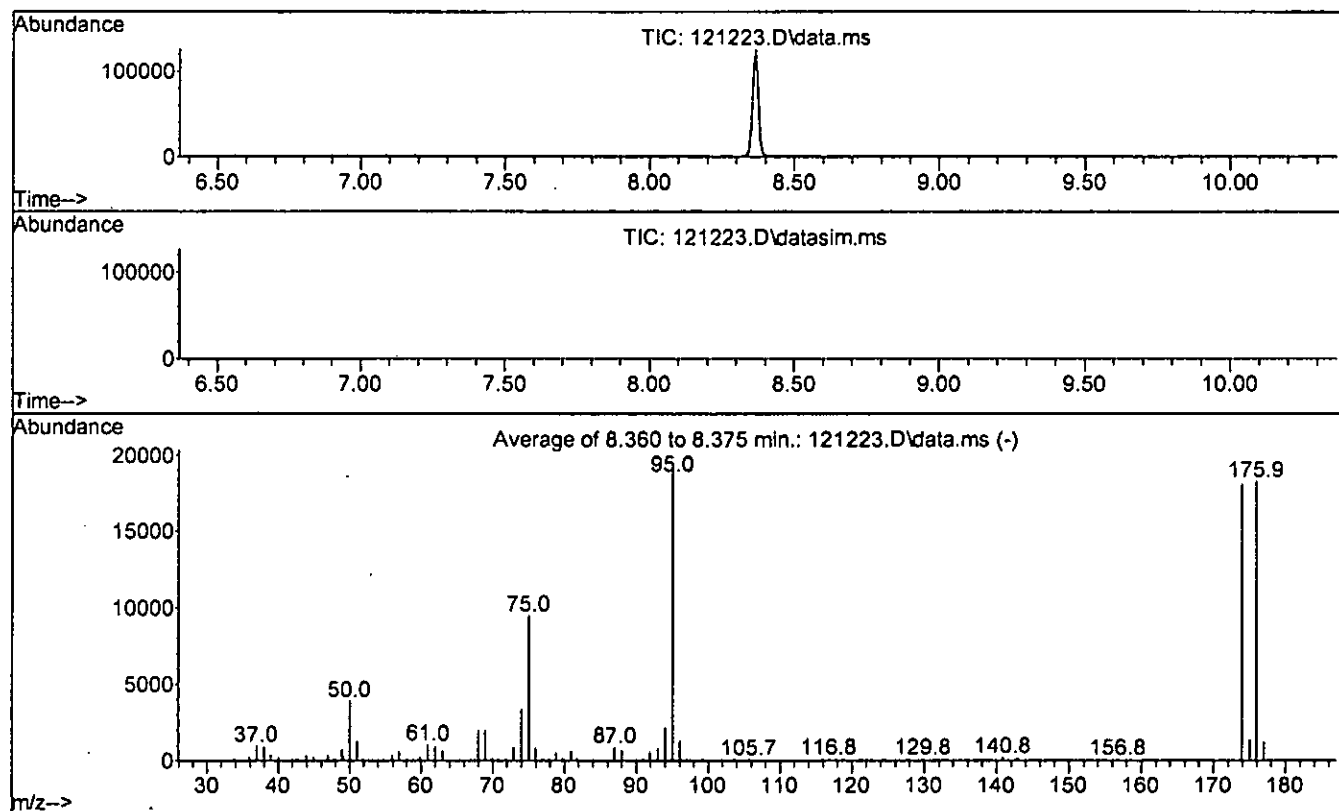
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	111.8	22008	PASS
96	95	5	9	5.8	1276	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	89.4	19680	PASS
175	174	5	9	8.7	1718	PASS
176	174	95	105	98.0	19280	PASS
177	176	5	10	6.2	1200	PASS

BFB

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121223.D  
Acq On : 12 Dec 2022 08:09 pm  
Operator : LM  
Sample : 50 ng BFB 67-152A  
Misc : direct inject  
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: LSCINT.P  
Integration File signal 2: rteint2.p

Method : D:\Methods\Inst11\VB121222ms11.M  
Title : 8260 Purge & Trap Volatiles Dual Acquisition  
Last Update : Tue Dec 13 13:28:26 2022



AutoFind: Scans 884, 885, 886; Background Corrected with Scan 878

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	107.0	19289	PASS
96	95	5	9	6.6	1269	PASS
173	174	0.00	2	0.4	80	PASS
174	95	50	200	93.5	18031	PASS
175	174	5	9	7.5	1347	PASS
176	174	95	105	101.0	18217	PASS
177	176	5	10	6.6	1201	PASS

**EPA 8260D**  
**Initial Calibrations**

Method Path : Y:\Methods\Inst13\  
 Method File : VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:14:23 2022  
 Response Via : Initial Calibration

Calibration Files  
 0.02=-113030.D 0.1 =113032.D 0.2 =113033.D 0.5 =113034.D 1 =113035.D 2 =113036.D 5 =113037.D 10 =113038.D 20 =113039.D 50 =113040.D  
 100 =113041.D 150 =113042.D 200 =113043.D

Compound	0.02	0.1	0.2	0.5	1	2	5	10	20	50	100	150	200	Avg	%RSD	
1) I Fluorobenzene															0.000#	-1.00
2) TMP Ethanol																
3) S Dibromofluorom...	0.306	0.313	0.316	0.337	0.318	0.310	0.304	0.332	0.336	0.346	0.312	0.307	0.305	0.319	4.44	
4) TMP Dichlorodifluo...			0.599	0.660	0.529	0.549	0.524	0.603	0.597	0.624	0.582	0.598	0.544	0.582	7.25	
5) TMP Chloromethane					0.405	0.429	0.357	0.401	0.373	0.401	0.380	0.380	0.348	0.386	6.61	
6) TMP Vinyl chloride	0.334	0.342	0.338	0.367	0.341	0.369	0.357	0.434	0.407	0.422	0.391	0.391	0.358	0.373	8.90	
7) TMP Bromomethane						0.349	0.430	0.435	0.420	0.394	0.366	0.357	0.331	0.385	10.39	
8) TMP Chloroethane					0.213	0.196	0.191	0.182	0.219	0.207	0.214	0.199	0.196	0.181	6.59	
9) TMP Trichlorofluor...					0.968	0.999	0.915	1.070	1.076	1.102	1.026	1.035	0.947	1.015	6.21	
10) TMP 2-Propanol															0.000	-1.00
11) TMP Acetone					0.023	0.022	0.019	0.023	0.023	0.024	0.024	0.021	0.018	0.022	9.68	
12) TMP 1,1-Dichloroet...	0.283	0.227	0.236	0.260	0.241	0.238	0.225	0.271	0.263	0.267	0.241	0.243	0.226	0.248	7.60	
13) TMP Hexane					0.269	0.250	0.214	0.249	0.229	0.238	0.229	0.226	0.225	0.236	7.10	
14) TMP Methylene chlo...						0.339	0.257	0.257	0.237	0.240	0.222	0.218	0.206	0.247	16.76	
15) TMP t-Butyl alcoho...					0.027	0.023	0.020	0.023	0.023	0.023	0.021	0.021	0.020	0.022#	9.39	
16) TMP Methyl t-butyl...	0.602	0.542	0.608	0.647	0.597	0.599	0.578	0.650	0.623	0.636	0.576	0.566	0.520	0.596	6.58	
17) TMP trans-1,2-Dich...	0.290	0.254	0.288	0.295	0.279	0.269	0.254	0.296	0.282	0.290	0.261	0.263	0.246	0.274	6.40	
18) TMP Diisopropyl et...			0.555	0.540	0.520	0.506	0.486	0.611	0.571	0.535	0.540	0.521	0.482	0.533	6.97	
19) TMP 1,1-Dichloroet...	0.323	0.309	0.341	0.369	0.348	0.344	0.323	0.385	0.361	0.366	0.329	0.327	0.303	0.341	7.20	
20) TMP Ethyl t-butyl ...			0.293	0.296	0.283	0.282	0.278	0.303	0.293	0.304	0.283	0.281	0.262	0.287	4.25	
21) TMP 2,2-Dichloropr...			0.548	0.469	0.239	0.260	0.221	0.269	0.278	0.279	0.247	0.248	0.214	0.297	36.33	
22) TMP cis-1,2-Dichlo...	0.319	0.265	0.295	0.329	0.299	0.293	0.277	0.327	0.306	0.313	0.282	0.283	0.263	0.296	7.43	
23) TMP Chloroform			0.492	0.475	0.441	0.431	0.404	0.462	0.449	0.464	0.422	0.423	0.393	0.441	6.90	
24) TMP 2-Butanone (MEK)					0.116	0.099	0.107	0.087	0.111	0.108	0.108	0.102	0.098	0.102	9.64	
25) TMP t-Amyl methyl ...			0.555	0.599	0.557	0.539	0.522	0.590	0.564	0.584	0.529	0.530	0.490	0.551	5.97	
26) TMP 1,2-Dichloroet...	0.594	0.324	0.348	0.337	0.331	0.309	0.301	0.337	0.317	0.320	0.289	0.282	0.258	0.334	24.55	
27) TMP 1,1,1-Trichlor...	0.488	0.413	0.456	0.508	0.473	0.470	0.446	0.511	0.486	0.500	0.456	0.456	0.419	0.468	6.66	
28) TMP 1,1-Dichloropr...			0.402	0.331	0.339	0.319	0.299	0.331	0.314	0.321	0.293	0.294	0.279	0.320	10.35	
29) TMP Carbon tetrach...			0.516	0.530	0.483	0.479	0.446	0.505	0.506	0.535	0.497	0.501	0.469	0.497	5.31	
30) S 1,2-Dichloroet...	0.062	0.056	0.058	0.064	0.058	0.061	0.059	0.062	0.062	0.064	0.055	0.055	0.061	0.060	5.08	
31) TMP Benzene			1.061	0.779	0.830	0.907	0.854	0.835	0.794	0.897	0.855	0.879	0.801	0.849	9.37	
32) TMP Trichloroethene	0.283	0.263	0.302	0.340	0.317	0.312	0.279	0.340	0.325	0.332	0.296	0.304	0.258	0.304	8.99	
33) TMP 1,2-Dichloropr...			0.242	0.260	0.187	0.184	0.169	0.188	0.176	0.183	0.168	0.166	0.156	0.189	17.18	
34) TMP Bromodichlorom...			0.326	0.378	0.307	0.292	0.290	0.331	0.314	0.333	0.311	0.311	0.288	0.316	8.11	
35) S Toluene-d8	0.860	0.837	0.874	0.948	0.857	0.847	0.890	0.949	0.954	0.938	0.922	0.892	0.917	0.899	4.63	
36) TMP Dibromomethane			0.158	0.190	0.179	0.172	0.163	0.185	0.175	0.183	0.170	0.168	0.157	0.173	6.30	
37) TMP 4-Methyl-2-pen...			0.044	0.035	0.041	0.037	0.041	0.040	0.042	0.041	0.040	0.037	0.040	0.040	7.02	

Response Factor Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 38) TMP cis-1,3-Dichlo... 0.307 0.365 0.335 0.323 0.302 0.336 0.332 0.346 0.329 0.328 0.310 0.329 5.55

-----ISTD-----																
39) I	Chlorobenzene-d5	0.930	0.660	0.760	0.711	0.736	0.722	0.684	0.702	0.677	0.720	0.694	0.701	0.647	0.719	9.78
40) TMP	Toluene	0.454	0.313	0.358	0.351	0.340	0.344	0.336	0.366	0.355	0.365	0.355	0.365	0.331	0.356	10.16
41) TMP	trans-1,3-Dich...	0.273	0.209	0.208	0.201	0.207	0.201	0.191	0.199	0.190	0.200	0.194	0.196	0.179	0.204	10.99
42) TMP	1,1,2-Trichlor...	0.143	0.158	0.145	0.142	0.139	0.133	0.143	0.146	0.140	0.127	0.142	0.127	0.142	5.72	5.72
43) TMP	2-Hexanone	0.337	0.390	0.363	0.345	0.326	0.340	0.331	0.336	0.326	0.326	0.298	0.338	0.298	0.338	6.92
44) TMP	1,3-Dichloropr...	0.458	0.438	0.455	0.444	0.413	0.425	0.410	0.433	0.416	0.418	0.392	0.443	0.392	0.443	13.36
45) TMP	Tetrachloroethene	0.396	0.399	0.443	0.421	0.405	0.423	0.410	0.450	0.447	0.461	0.421	0.445	0.421	0.445	13.36
46) TMP	Dibromochlorom...	0.326	0.331	0.342	0.333	0.316	0.328	0.317	0.335	0.325	0.320	0.295	0.335	0.320	0.335	5.20
47) TMP	1,2-Dibromoeth...	0.971	0.979	0.959	0.982	0.881	0.940	0.899	0.974	0.938	0.965	0.886	0.943	0.886	0.943	13.88
48) TMP	Chlorobenzene	1.520	1.376	1.395	1.348	1.261	1.301	1.233	1.288	1.220	1.216	1.112	1.560	1.112	1.560	4.02
49) TMP	Ethylbenzene	0.445	0.399	0.411	0.417	0.382	0.405	0.403	0.425	0.422	0.435	0.396	0.413	0.396	0.413	54.19
50) TMP	1,1,1,2-Tetrac...	2.210	0.790	0.703	0.621	0.623	0.599	0.554	0.568	0.537	0.559	0.535	0.539	0.493	0.718	4.45
51) TMP	m,p-Xylene	0.613	0.582	0.598	0.581	0.541	0.558	0.531	0.558	0.540	0.548	0.500	0.611	0.500	0.611	63.44
52) TMP	o-Xylene	1.181	0.618	0.613	0.582	0.598	0.581	0.541	0.558	0.531	0.558	0.540	0.548	0.500	0.611	28.53
53) TMP	Styrene	0.930	0.835	0.907	0.865	0.824	0.838	0.801	0.861	0.835	0.856	0.783	0.848	0.783	0.848	5.02
54) TMP	Isopropylbenzene	1.388	1.379	1.429	1.419	1.274	1.345	1.292	1.375	1.339	1.379	1.265	1.353	1.265	1.353	4.11
55) TMP	Bromoforn	0.272	0.289	0.302	0.284	0.285	0.297	0.292	0.320	0.328	0.341	0.317	0.302	0.317	0.302	7.10

-----ISTD-----																
56) I	1,4-Dichlorobenzen	0.616	0.630	0.612	0.615	0.589	0.608	0.607	0.585	0.594	0.595	0.586	0.606	0.586	0.606	2.43
57) S	4-Bromofluorob...	2.573	2.428	2.471	2.311	2.170	2.218	2.138	2.189	2.185	2.137	2.011	2.257	2.011	2.257	7.49
58) TMP	n-Propylbenzene	0.874	0.803	0.877	0.831	0.772	0.809	0.798	0.829	0.834	0.828	0.779	0.821	0.779	0.821	4.12
59) TMP	Bromobenzene	1.995	1.945	1.921	1.868	1.751	1.776	1.770	1.824	1.828	1.802	1.713	1.836	1.713	1.836	4.78
60) TMP	1,3,5-Trimethy...	0.440	0.459	0.485	0.440	0.438	0.417	0.401	0.412	0.427	0.406	0.433	0.433#	0.433	0.433#	5.65
61) TMP	1,1,2,2-Tetrac...	0.343	0.429	0.345	0.327	0.311	0.339	0.317	0.330	0.333	0.329	0.308	0.337#	0.308	0.337#	9.73
62) TMP	1,2,3-Trichlor...	1.301	1.305	1.404	1.387	1.266	1.270	1.240	1.269	1.257	1.243	1.166	1.282	1.166	1.282	5.22
63) TMP	2-Chlorotoluene	1.750	1.637	1.656	1.615	1.482	1.548	1.479	1.532	1.505	1.475	1.392	1.552	1.392	1.552	6.62
64) TMP	4-Chlorotoluene	2.280	1.956	2.053	1.956	1.792	1.901	1.829	1.936	1.940	1.939	1.825	1.946	1.825	1.946	6.84
65) TMP	tert-Butylbenzene	2.429	2.065	2.045	1.967	1.817	1.882	1.839	1.926	1.953	1.952	1.851	1.975	1.851	1.975	8.62
66) TMP	1,2,4-Trimethy...	2.383	2.419	2.465	2.460	2.252	2.354	2.307	2.441	2.463	2.473	2.336	2.396	2.336	2.396	3.12
67) TMP	sec-Butylbenzene	2.418	2.413	2.452	2.394	2.246	2.341	2.314	2.469	2.492	2.494	2.365	2.400	2.365	2.400	3.26
68) TMP	p-Isopropyltol...	1.579	1.527	1.583	1.468	1.399	1.448	1.412	1.468	1.478	1.483	1.392	1.476	1.392	1.476	4.42
69) TMP	1,3-Dichlorobe...	1.567	1.497	1.500	1.460	1.398	1.433	1.404	1.454	1.462	1.462	1.375	1.456	1.375	1.456	3.71
70) TMP	1,4-Dichlorobe...	1.611	1.461	1.529	1.432	1.307	1.370	1.339	1.402	1.426	1.428	1.337	1.422	1.337	1.422	6.27
71) TMP	1,2-Dichlorobe...	0.099	0.094	0.094	0.093	0.084	0.084	0.085	0.089	0.092	0.093	0.087	0.091	0.087	0.091	5.27
72) TMP	1,2-Dibromo-3-...	1.031	0.960	1.006	0.980	0.923	0.980	0.950	1.015	1.045	1.058	1.021	0.997	1.021	0.997	4.23
73) TMP	1,2,4-Trichlor...	0.692	0.627	0.591	0.572	0.530	0.559	0.543	0.592	0.592	0.603	0.565	0.588	0.565	0.588	7.52
74) TMP	Hexachlorobuta...	1.968	1.862	1.895	1.840	1.769	1.862	1.835	1.973	2.043	2.054	1.954	1.938	1.954	1.938	6.24
75) TMP	Naphthalene	2.205	1.968	1.862	1.895	1.840	1.769	1.862	1.835	1.973	2.043	2.054	1.938	2.054	1.938	6.24
76) TMP	1,2,3-Trichlor...	0.760	0.832	0.824	0.775	0.709	0.749	0.747	0.798	0.829	0.846	0.810	0.789	0.810	0.789	5.54

(#) = Out of Range

## Compound List Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:14:23 2022  
 Response Via : Initial Calibration

Total Cpnds : 76

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I Fluorobenzene	96	4.74	1.000	A	1	A	B
2	T Ethanol	45	2.33	0.492	A	1	A	B
3	S Dibromofluoromethane	113	4.17	0.882	A	0	A	B
4	T Dichlorodifluoromethane	85	1.11	0.234	A	1	A	B
5	T Chloromethane	50	1.25	0.264	A	1	A	B
6	T Vinyl chloride	-62	1.33	0.280	A	1	A	B
7	T Bromomethane	94	1.57	0.332	A	1	A	B
8	T Chloroethane	-64	1.64	0.346	A	1	A	B
9	T Trichlorofluoromethane	101	1.83	0.386	A	1	A	B
10	T 2-Propanol	45	2.33	0.492	A	1	A	B
11	T Acetone -	58	2.32	0.490	Q	1	A	B
12	T 1,1-Dichloroethene	-96	2.26	0.478	A	2	A	B
13	T Hexane -	57	3.16	0.667	L	2	A	B
14	T Methylene chloride -	84	2.68	0.566	Q	2	A	B
15	T t-Butyl alcohol (TBA)	59	2.81	0.593	A	1	A	B
16	T Methyl t-butyl ether (MTBE)	-73	2.92	0.618	A	1	A	B
17	T trans-1,2-Dichloroethene	-96	2.91	0.615	A	2	A	B
18	T Diisopropyl ether (DIPE)	45	3.34	0.706	A	3	A	B
19	T 1,1-Dichloroethane	-63	3.27	0.692	A	2	A	B
20	T Ethyl t-butyl ether (ETBE)	87	3.65	0.771	A	3	A	B
21	T 2,2-Dichloropropane -	77	3.76	0.795	L	1	A	B
22	T cis-1,2-Dichloroethene	-96	3.77	0.796	A	2	A	B
23	T Chloroform	83	4.04	0.853	A	1	A	B
24	T 2-Butanone (MEK) -	43	3.78	0.799	Q	2	A	B
25	T t-Amyl methyl ether (TAME)	73	4.61	0.974	A	2	A	B
26	T 1,2-Dichloroethane (EDC)-	-62	4.52	0.954	L	1	A	B
27	T 1,1,1-Trichloroethane	-97	4.19	0.885	A	2	A	B
28	T 1,1-Dichloropropene	75	4.33	0.915	A	2	A	B
29	T Carbon tetrachloride	117	4.33	0.915	A	1	A	B
30	S 1,2-Dichloroethane-d4	102	4.46	0.941	A	1	A	B
31	T Benzene -	-78	4.50	0.951	L	1	A	B
32	T Trichloroethene	-95	5.05	1.067	A	3	A	B
33	T 1,2-Dichloropropane -	63	5.24	1.107	L	1	A	B
34	T Bromodichloromethane	83	5.48	1.158	A	2	A	B
35	S Toluene-d8	98	6.11	1.289	A	1	A	B
36	T Dibromomethane	93	5.34	1.127	A	2	A	B
37	T 4-Methyl-2-pentanone	85	6.01	1.269	A	2	A	B
38	T cis-1,3-Dichloropropene	75	5.88	1.241	A	2	A	B
39	I Chlorobenzene-d5	117	7.41	1.000	A	1	A	B
40	T Toluene -	-92	6.16	0.832	L	1	A	B
41	T trans-1,3-Dichloropropene	75	6.36	0.859	A	2	A	B
42	T 1,1,2-Trichloroethane -	-83	6.53	0.881	L	2	A	B
43	T 2-Hexanone	43	6.76	0.913	A	3	A	B
44	T 1,3-Dichloropropane	76	6.67	0.901	A	1	A	B
45	T Tetrachloroethene-	-164	6.65	0.898	Q	3	A	B
46	T Dibromochloromethane	129	6.87	0.928	A	1	A	B
47	T 1,2-Dibromoethane (EDB)-	-107	6.97	0.941	L	2	A	B
48	T Chlorobenzene	112	7.43	1.003	A	2	A	B
49	T Ethylbenzene -	-91	7.54	1.018	L	1	A	B
50	T 1,1,1,2-Tetrachloroethane	131	7.51	1.014	A	2	A	B
51	T m,p-Xylene -	-106	7.65	1.033	L	1	A	B
52	T o-Xylene -	-106	8.02	1.083	L	1	A	B
53	T Styrene	104	8.03	1.085	A	1	A	B
54	T Isopropylbenzene	105	8.37	1.130	A	1	A	B
55	T Bromoform	173	8.20	1.107	A	2	A	B

56	I	1,4-Dichlorobenzene-d4	152	9.62	1.000	A	2	A	B
57	S	4-Bromofluorobenzene	95	8.51	0.884	A	2	A	B
58	T	n-Propylbenzene	91	8.77	0.911	A	1	A	B
59	T	Bromobenzene	156	8.65	0.898	A	2	A	B
60	T	1,3,5-Trimethylbenzene	105	8.94	0.929	A	1	A	B
61	T	1,1,2,2-Tetrachloroethane	83	8.66	0.900	L	2	A	B
62	T	1,2,3-Trichloropropane	75	8.70	0.904	A	3	A	B
63	T	2-Chlorotoluene	91	8.84	0.918	A	1	A	B
64	T	4-Chlorotoluene	91	8.95	0.930	A	1	A	B
65	T	tert-Butylbenzene	119	9.25	0.961	A	2	A	B
66	T	1,2,4-Trimethylbenzene	105	9.30	0.966	A	1	A	B
67	T	sec-Butylbenzene	105	9.46	0.983	A	1	A	B
68	T	p-Isopropyltoluene	119	9.61	0.999	A	2	A	B
69	T	1,3-Dichlorobenzene	146	9.56	0.994	A	2	A	B
70	T	1,4-Dichlorobenzene	146	9.64	1.002	A	2	A	B
71	T	1,2-Dichlorobenzene	146	10.01	1.040	A	2	A	B
72	T	1,2-Dibromo-3-chloropropane	75	10.77	1.120	A	2	A	B
73	T	1,2,4-Trichlorobenzene	180	11.59	1.204	A	2	A	B
74	T	Hexachlorobutadiene	225	11.77	1.223	A	2	A	B
75	T	Naphthalene	128	11.83	1.230	A	2	A	B
76	T	1,2,3-Trichlorobenzene	180	12.08	1.255	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

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VB113022msl3.M Thu Dec 01 12:46:39 2022



Calibration Status Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:14:23 2022  
 Response Via : Initial Calibration

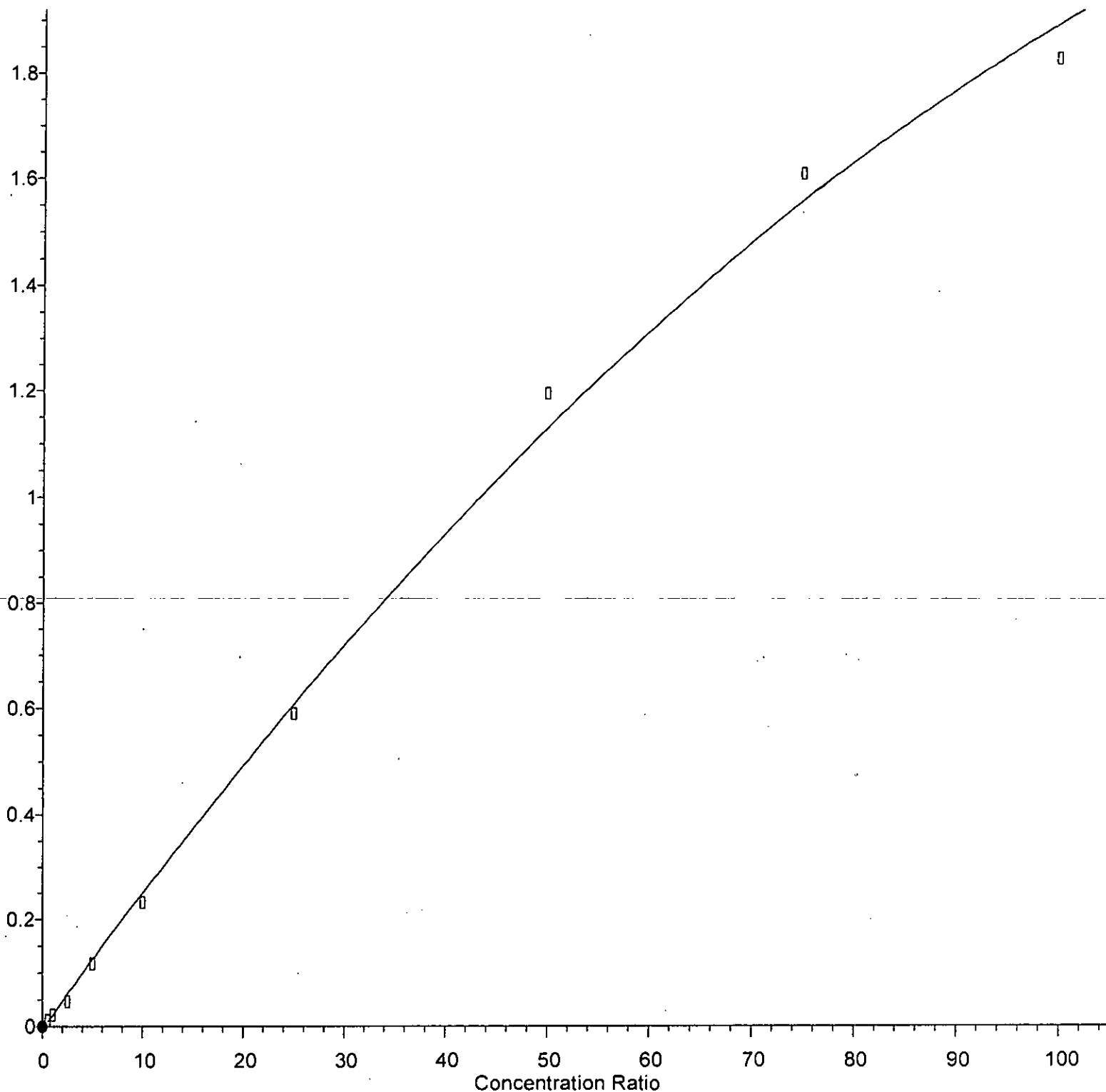
#	ID	Conc	ISTD Conc	Path\File
1	0.02	10	10	Y:\Proc_GCMS13\11-30-22\113030.D
3	0.1	10	10	Y:\Proc_GCMS13\11-30-22\113032.D
4	0.2	10	10	Y:\Proc_GCMS13\11-30-22\113033.D
5	0.5	10	10	Y:\Proc_GCMS13\11-30-22\113034.D
6	1	10	10	Y:\Proc_GCMS13\11-30-22\113035.D
7	2	10	10	Y:\Proc_GCMS13\11-30-22\113036.D
8	5	10	10	Y:\Proc_GCMS13\11-30-22\113037.D
9	10	10	10	Y:\Proc_GCMS13\11-30-22\113038.D
10	20	10	10	Y:\Proc_GCMS13\11-30-22\113039.D
11	50	10	10	Y:\Proc_GCMS13\11-30-22\113040.D
12	100	10	10	Y:\Proc_GCMS13\11-30-22\113041.D
13	150	10	10	Y:\Proc_GCMS13\11-30-22\113042.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.02	Dec 01 08:17 2022	Dec 01 07:33 2022	30 Nov 2022 10:43 pm
3	0.1	Dec 01 08:17 2022	Dec 01 07:44 2022	30 Nov 2022 11:29 pm
4	0.2	Dec 01 08:17 2022	Dec 01 07:47 2022	30 Nov 2022 11:52 pm
5	0.5	Dec 01 08:17 2022	Dec 01 07:50 2022	01 Dec 2022 12:15 am
6	1	Dec 01 08:17 2022	Dec 01 07:53 2022	01 Dec 2022 12:39 am
7	2	Dec 01 08:17 2022	Dec 01 07:55 2022	01 Dec 2022 01:02 am
8	5	Dec 01 08:17 2022	Dec 01 07:57 2022	01 Dec 2022 01:25 am
9	10	Dec 01 08:17 2022	Dec 01 08:09 2022	01 Dec 2022 01:49 am
10	20	Dec 01 08:17 2022	Dec 01 07:26 2022	01 Dec 2022 02:12 am
11	50	Dec 01 08:17 2022	Dec 01 07:26 2022	01 Dec 2022 02:35 am
12	100	Dec 01 08:17 2022	Dec 01 07:26 2022	01 Dec 2022 02:58 am
13	150	Dec 01 08:17 2022	Dec 01 07:26 2022	01 Dec 2022 03:22 am

VB113022ms13.M Thu Dec 01 12:46:49 2022

Acetone

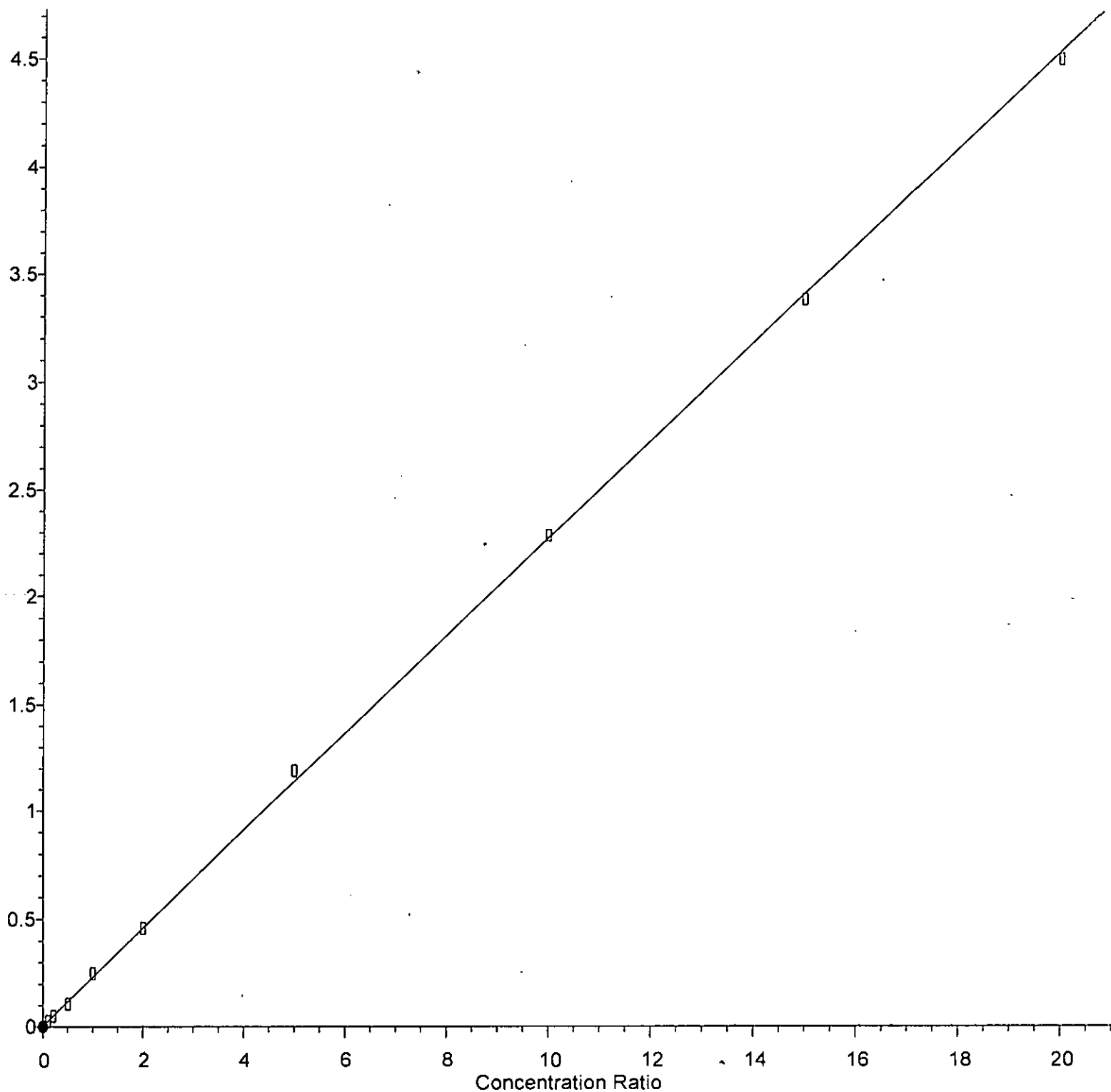
Response Ratio



$R = -7.360e-005 A^2 + 2.635e-002 A - 5.122e-003$   
Coef of Det ( $r^2$ ) = 0.997069 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Hexane

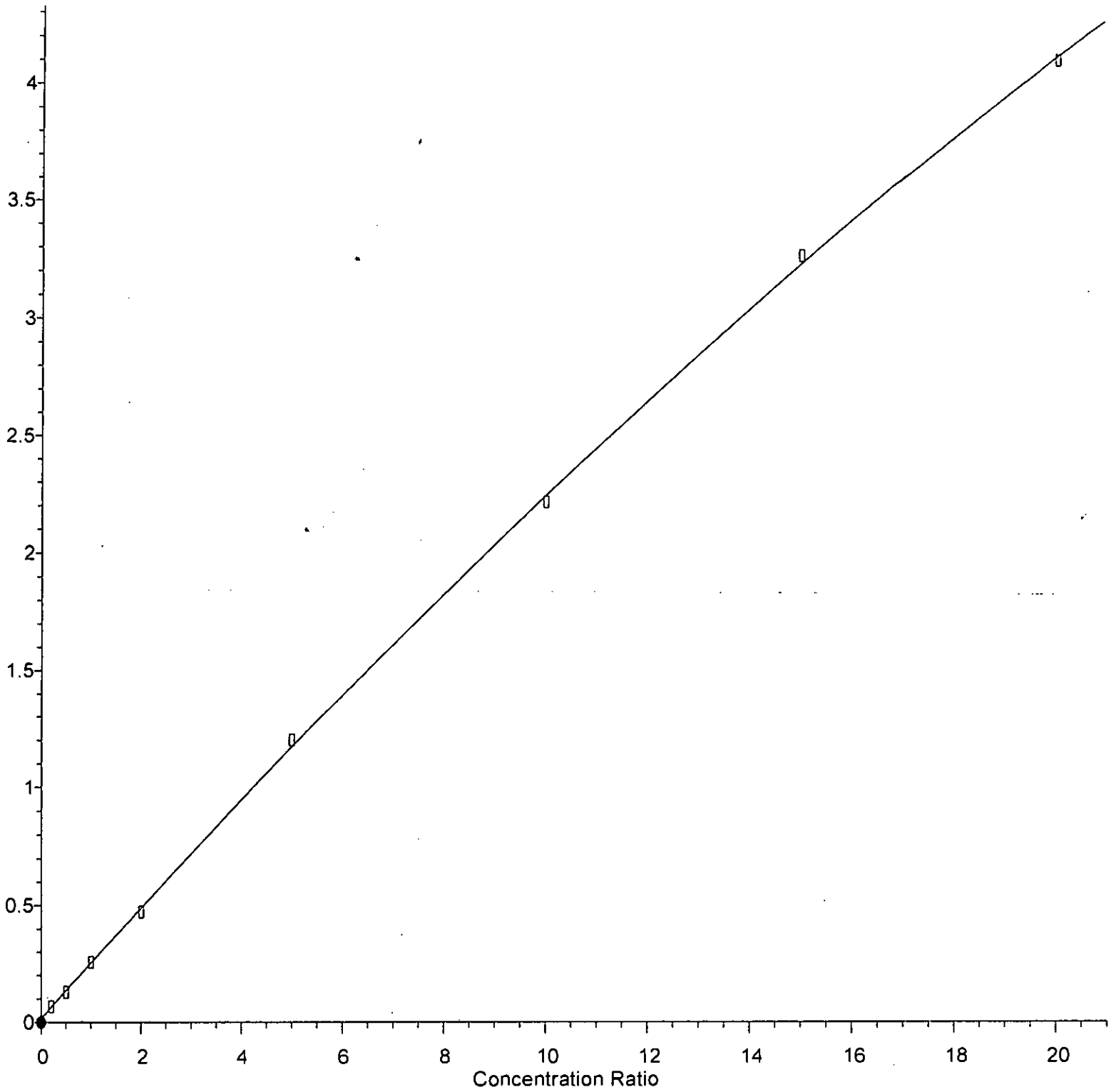
Response Ratio



Response = 2.271e-001 \* Amt + 4.451e-003  
Coef of Det (r^2) = 0.999512 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Methylene chloride

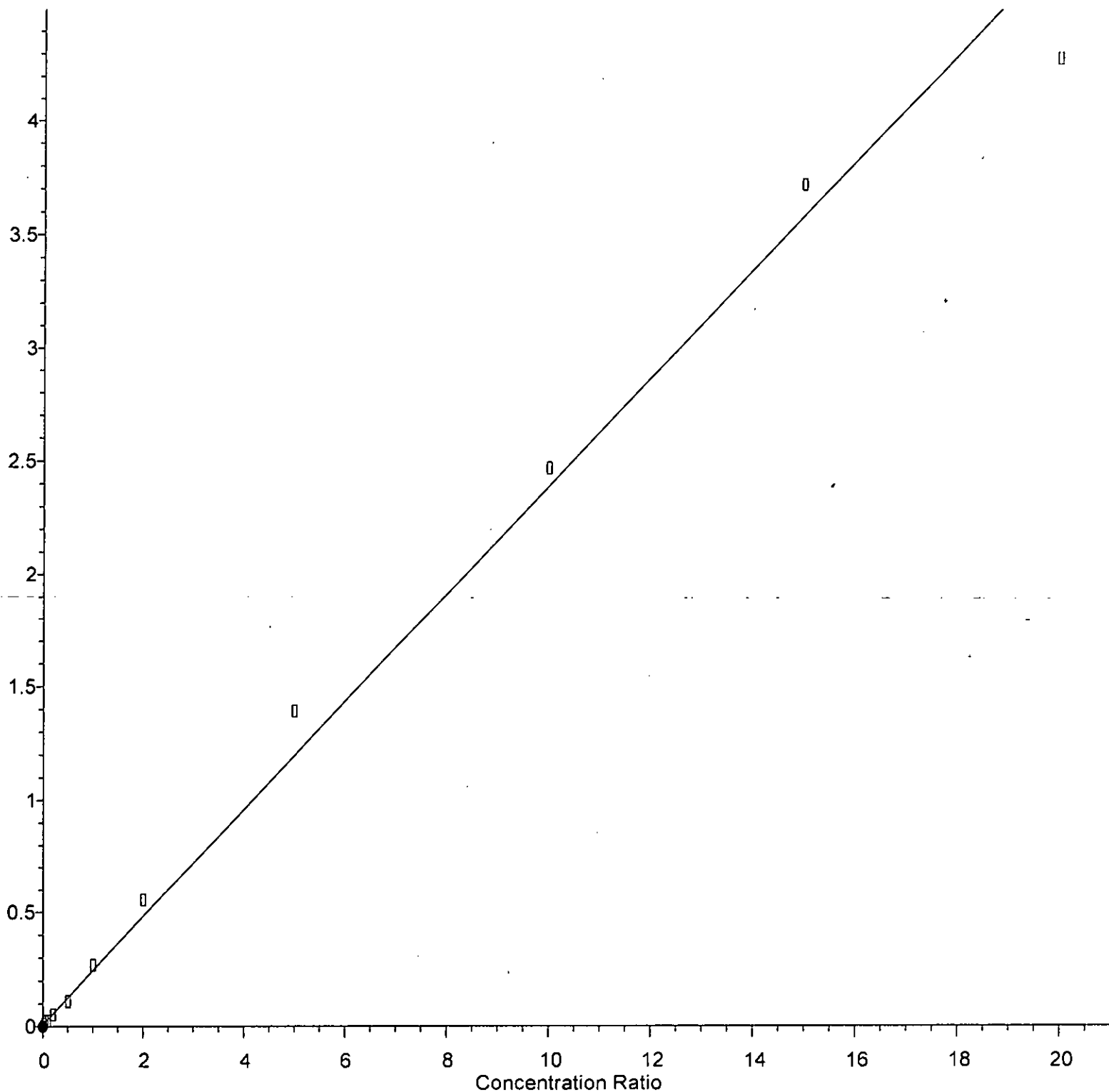
Response Ratio



$R = -1.698e-003 A^2 + 2.399e-001 A + 1.659e-002$   
Coef of Det ( $r^2$ ) = 0.999706 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

2,2-Dichloropropane

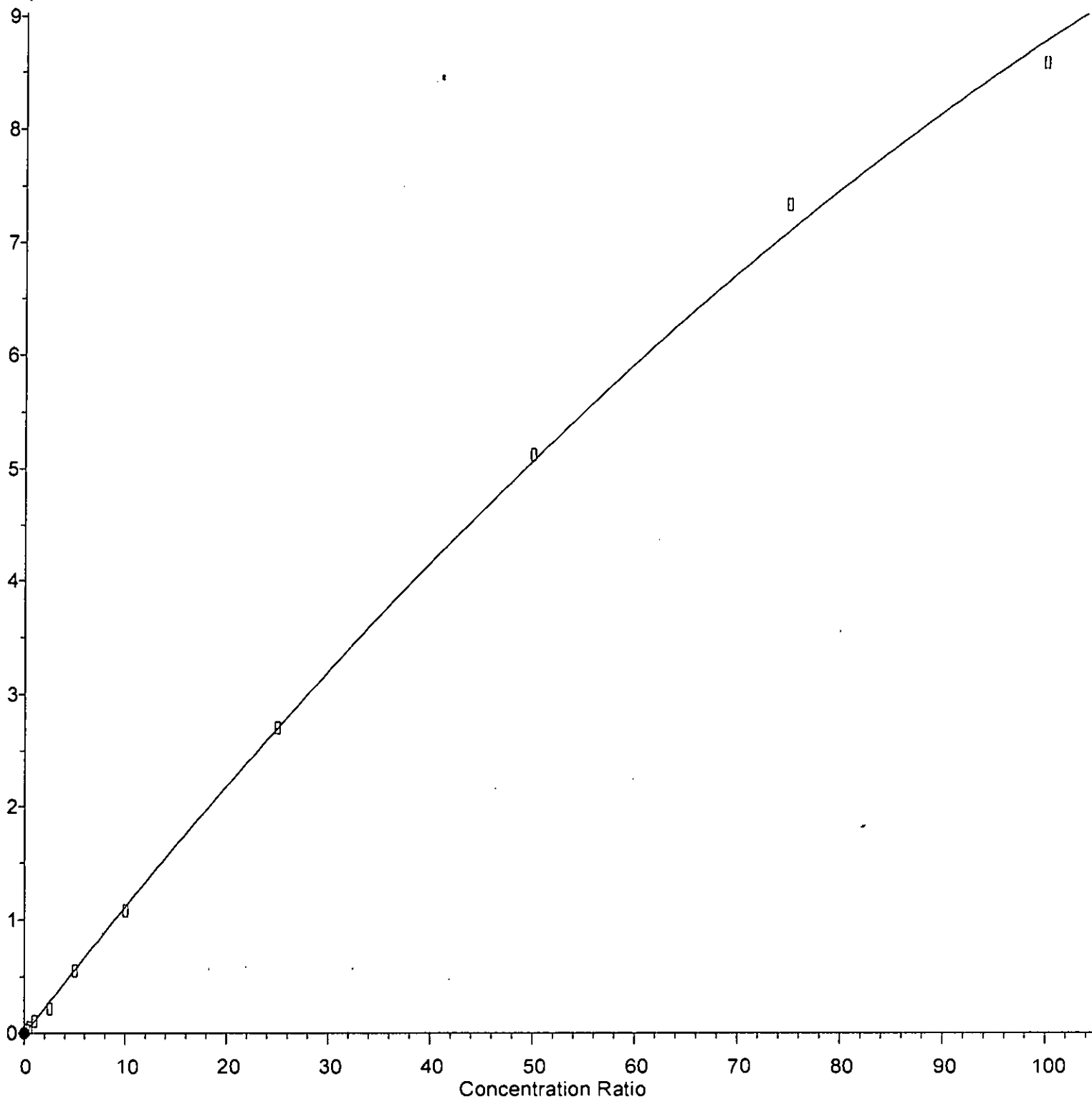
Response Ratio



Response = 2.380e-001 \* Amt + 7.346e-003  
Coef of Det (r^2) = 0.991273 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

2-Butanone (MEK)

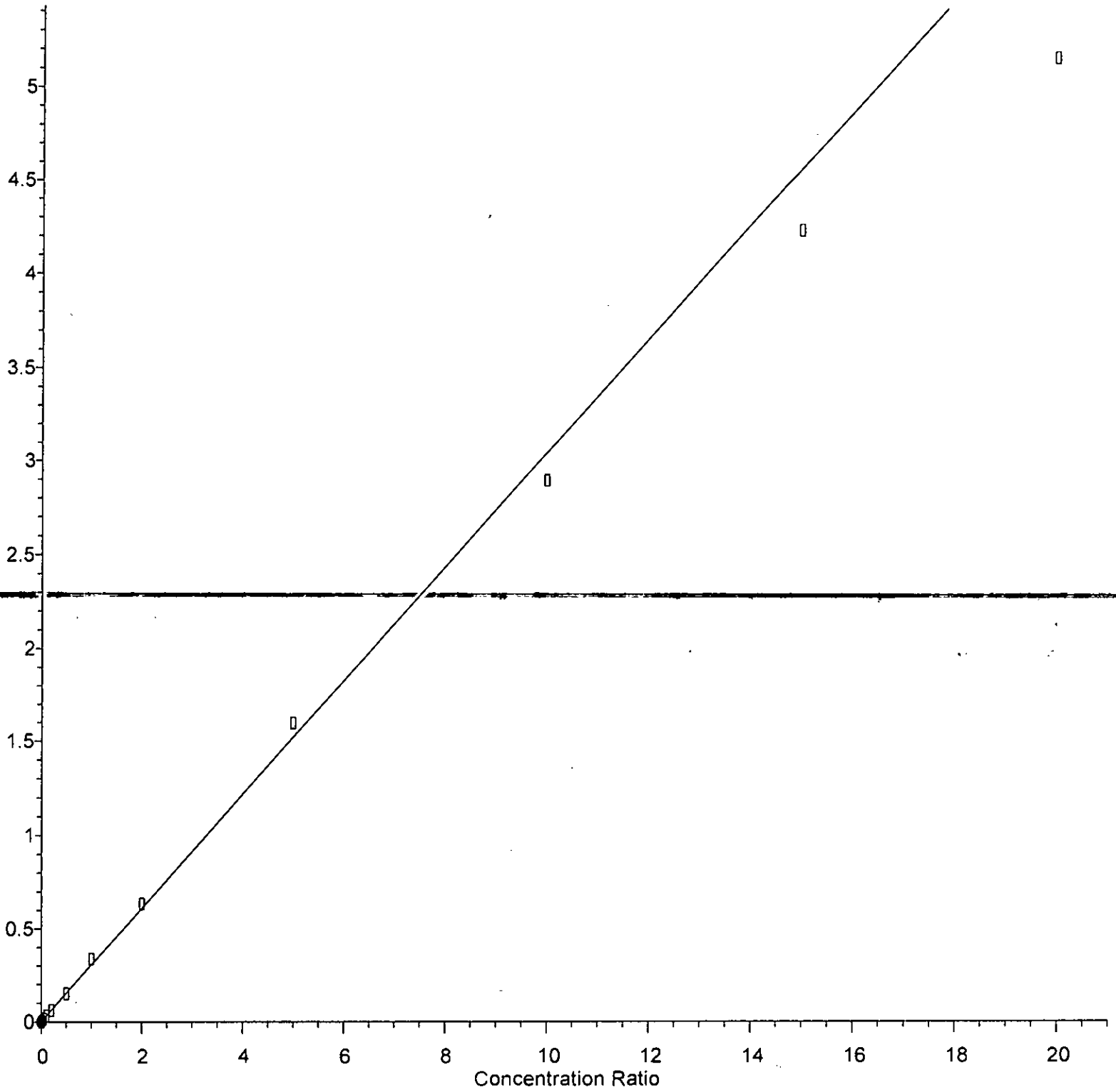
Response Ratio



$R = -2.690e-004 A^2 + 1.150e-001 A - 7.036e-003$   
Coef of Det ( $r^2$ ) = 0.998724 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,2-Dichloroethane (EDC)

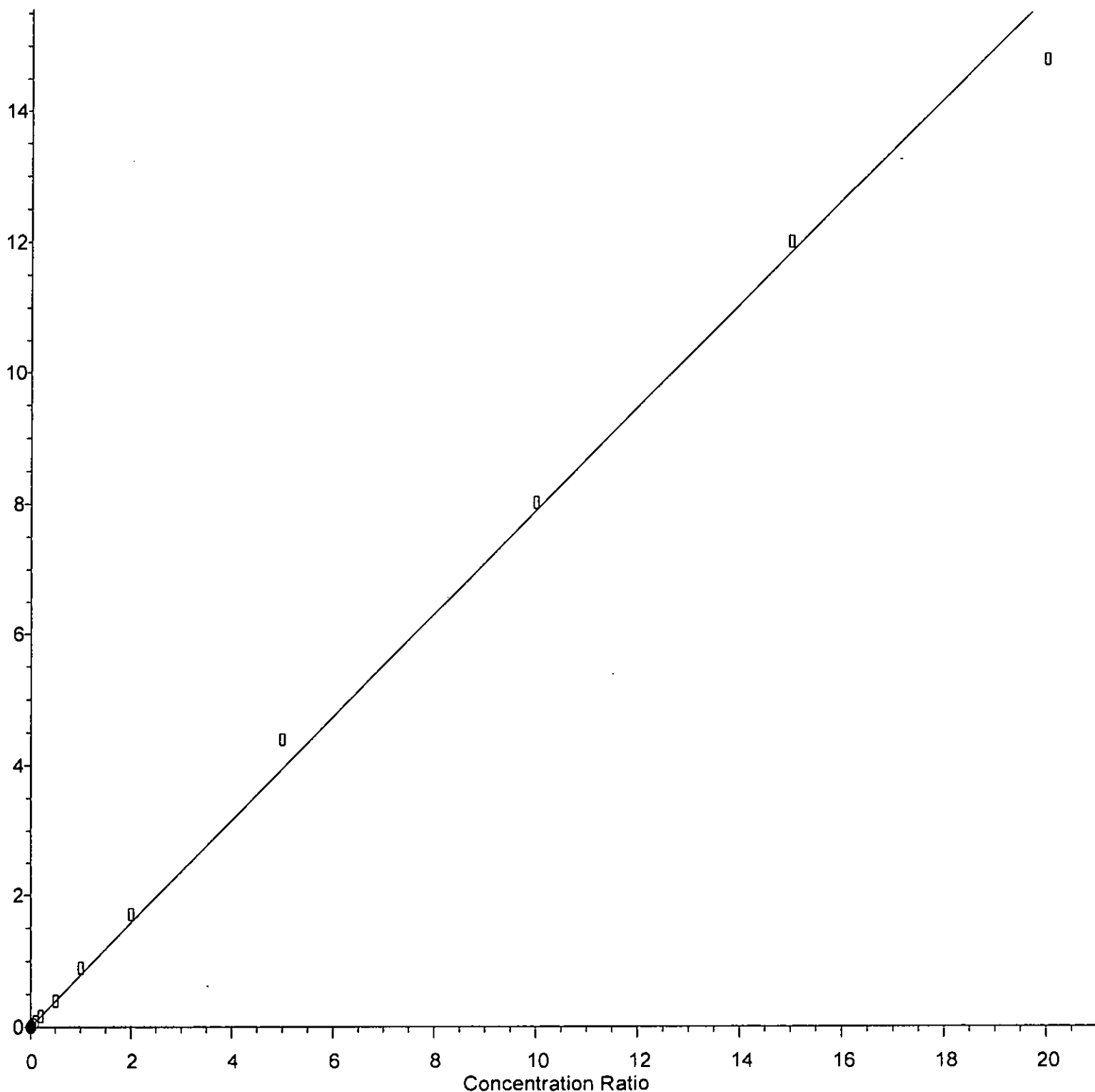
Response Ratio



Response = 3.041e-001 \* Amt + 5.717e-004  
Coef of Det (r^2) = 0.993435 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Benzene

Response Ratio

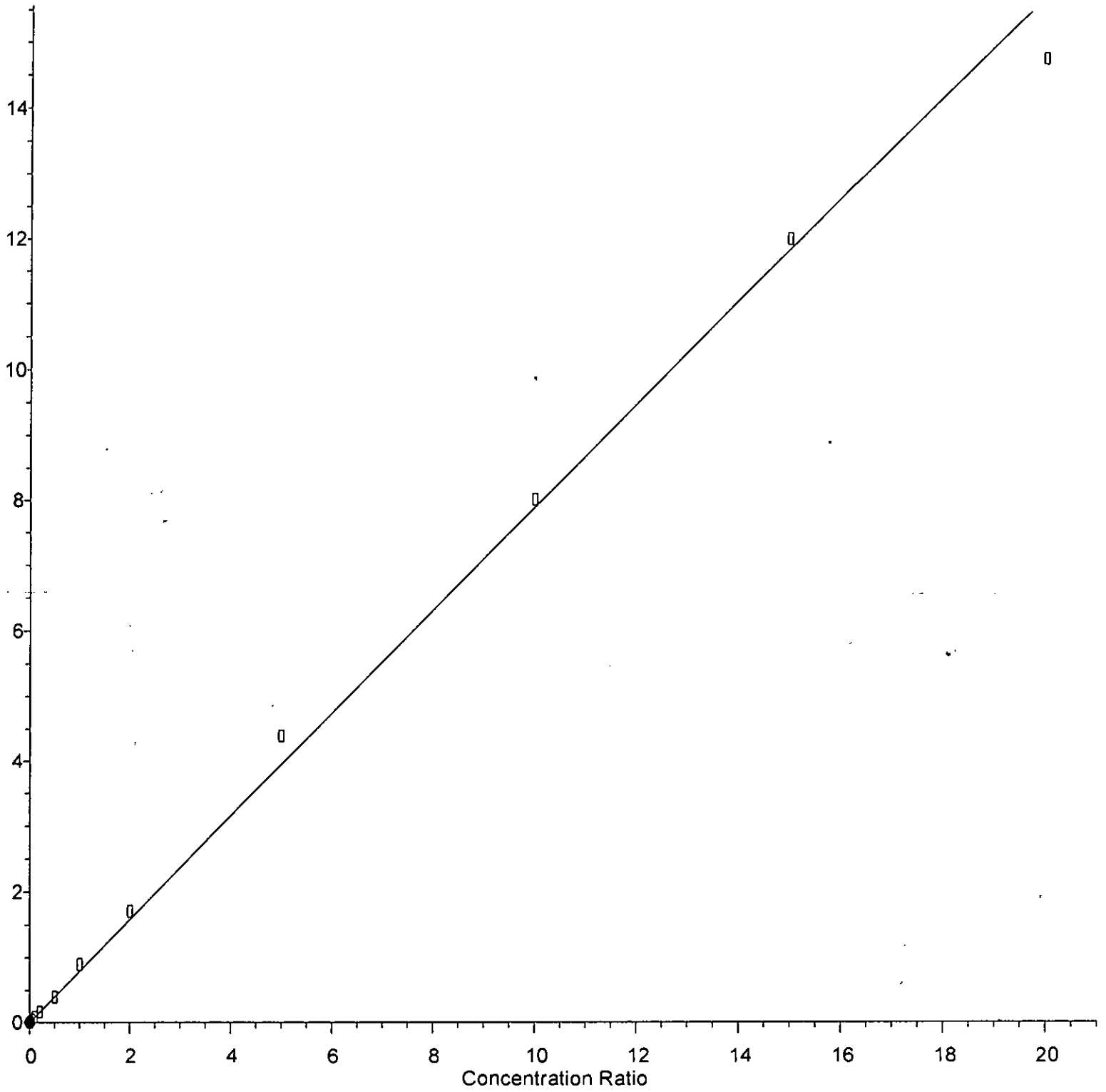


Response = 7.901e-001 \* Amt + 1.110e-003  
Coef of Det (r^2) = 0.996690 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022



Benzene

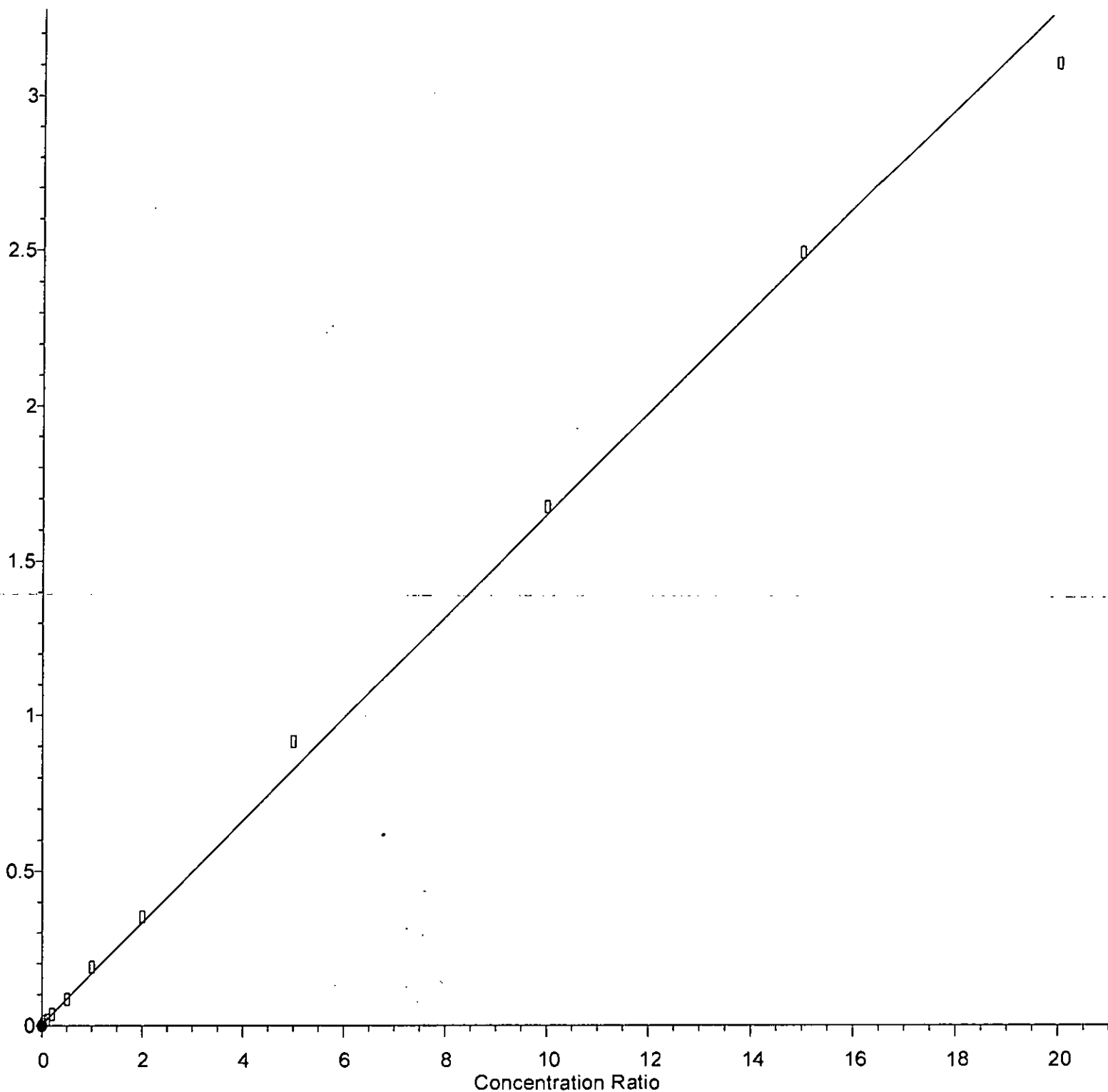
Response Ratio



Response = 7.901e-001 \* Amt + 1.110e-003  
Coef of Det (r^2) = 0.996690 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,2-Dichloropropane

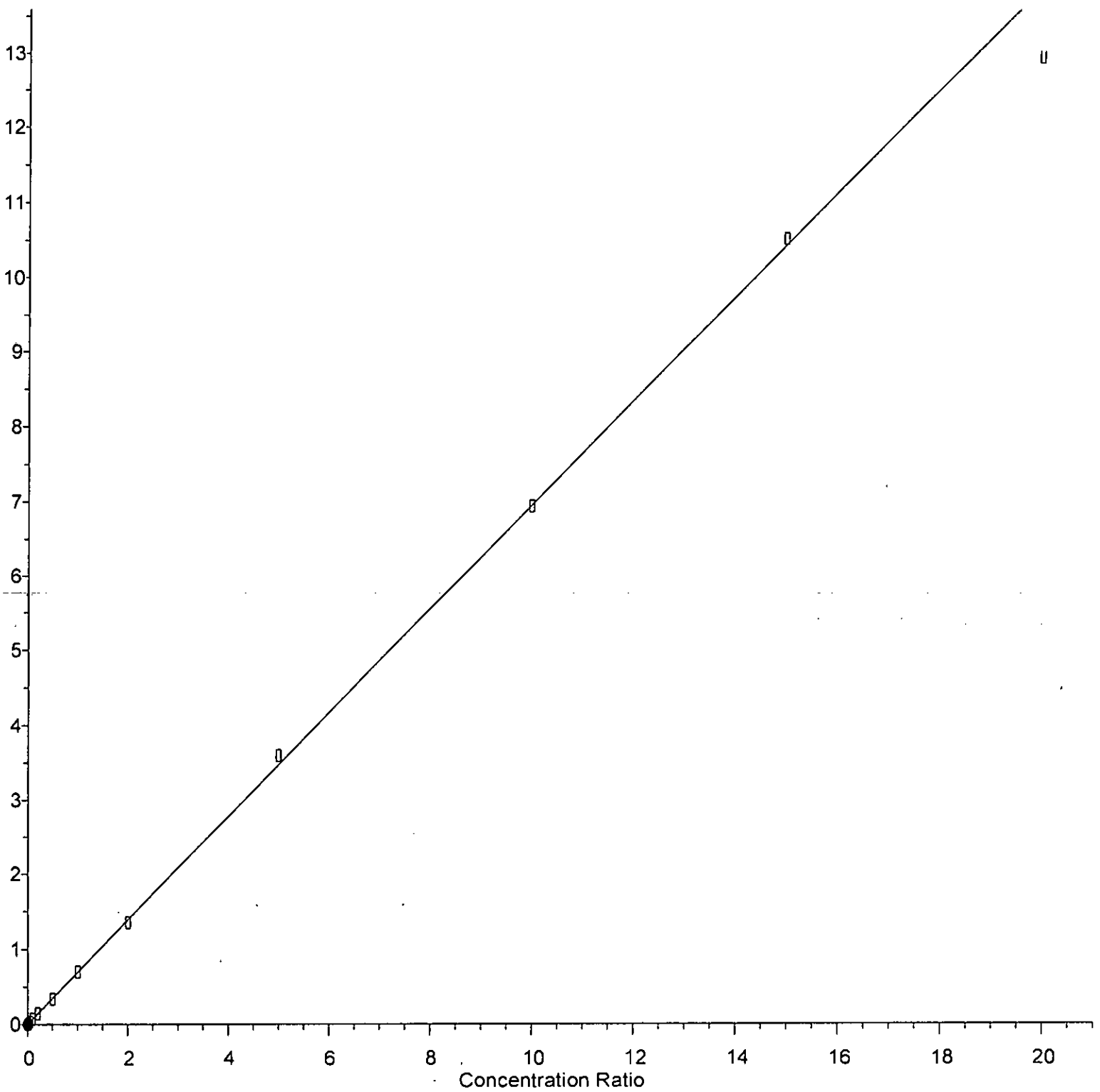
Response Ratio



Response = 1.647e-001 \* Amt + 3.010e-003  
Coef of Det (r^2) = 0.997143 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Toluene

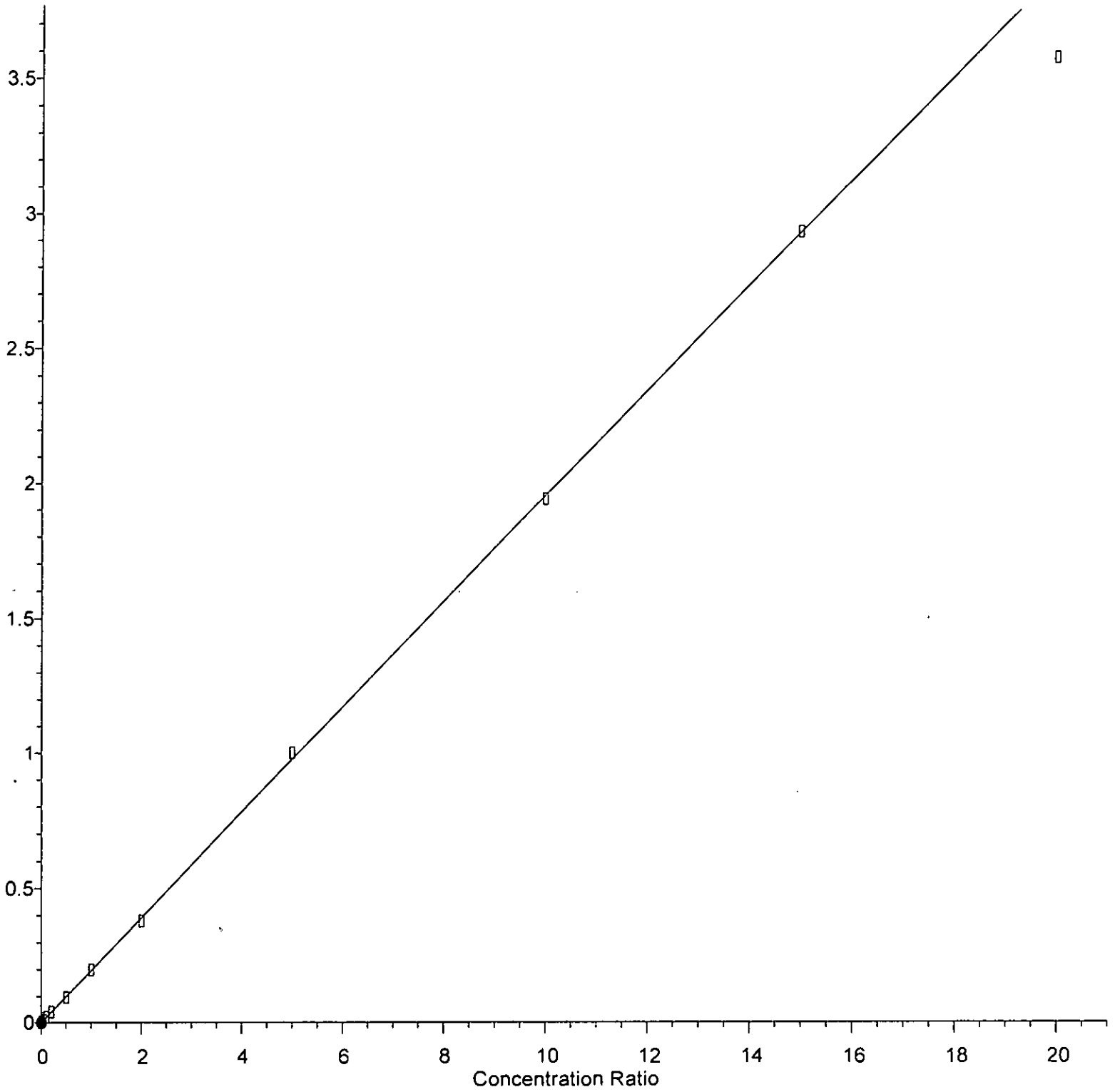
Response Ratio



Response = 6.949e-001 \* Amt + 4.485e-004  
Coef of Det (r^2) = 0.997458 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,1,2-Trichloroethane

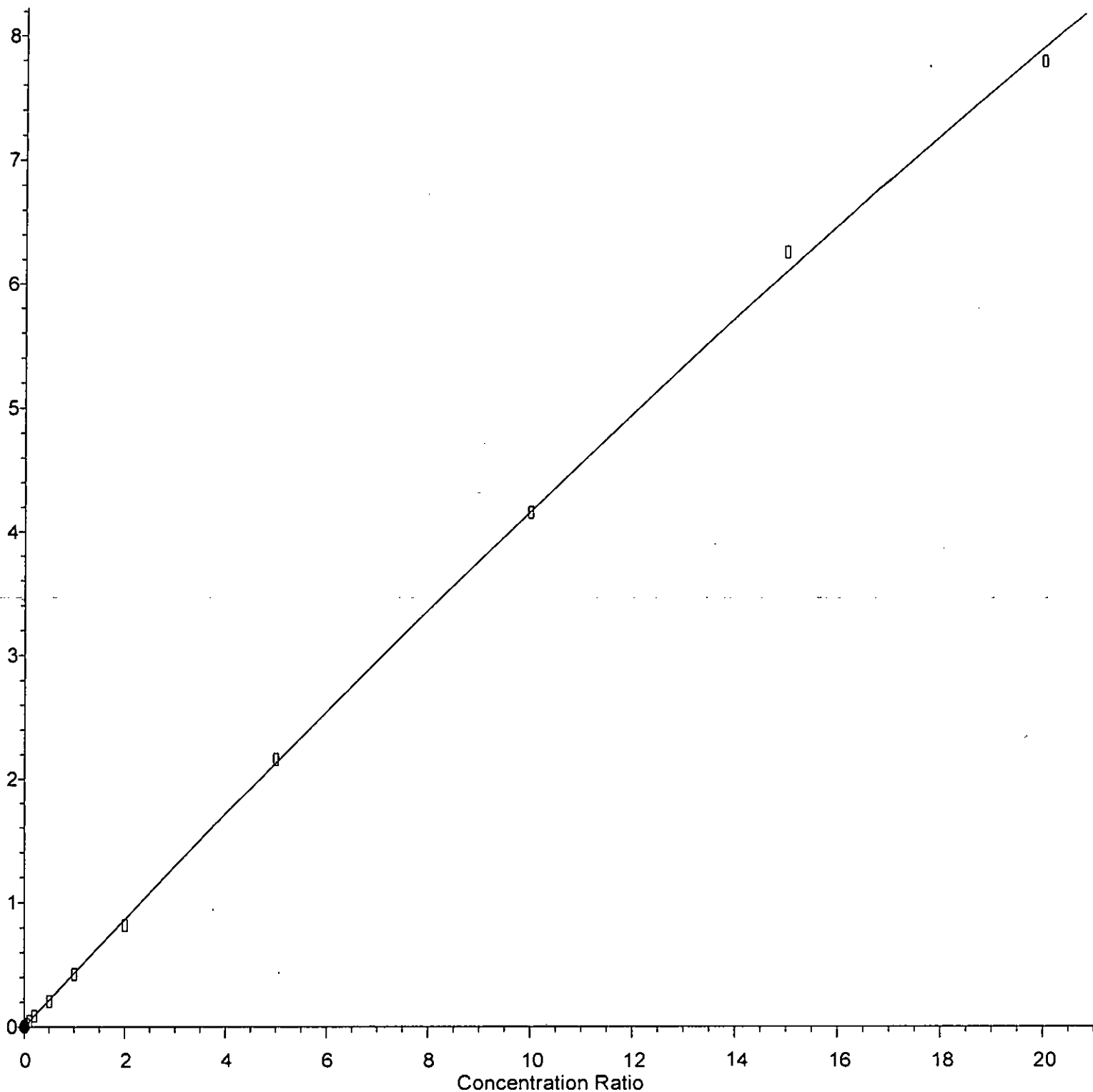
Response Ratio



Response = 1.955e-001 \* Amt + 1.561e-004  
Coef of Det (r^2) = 0.998845 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Tetrachloroethene

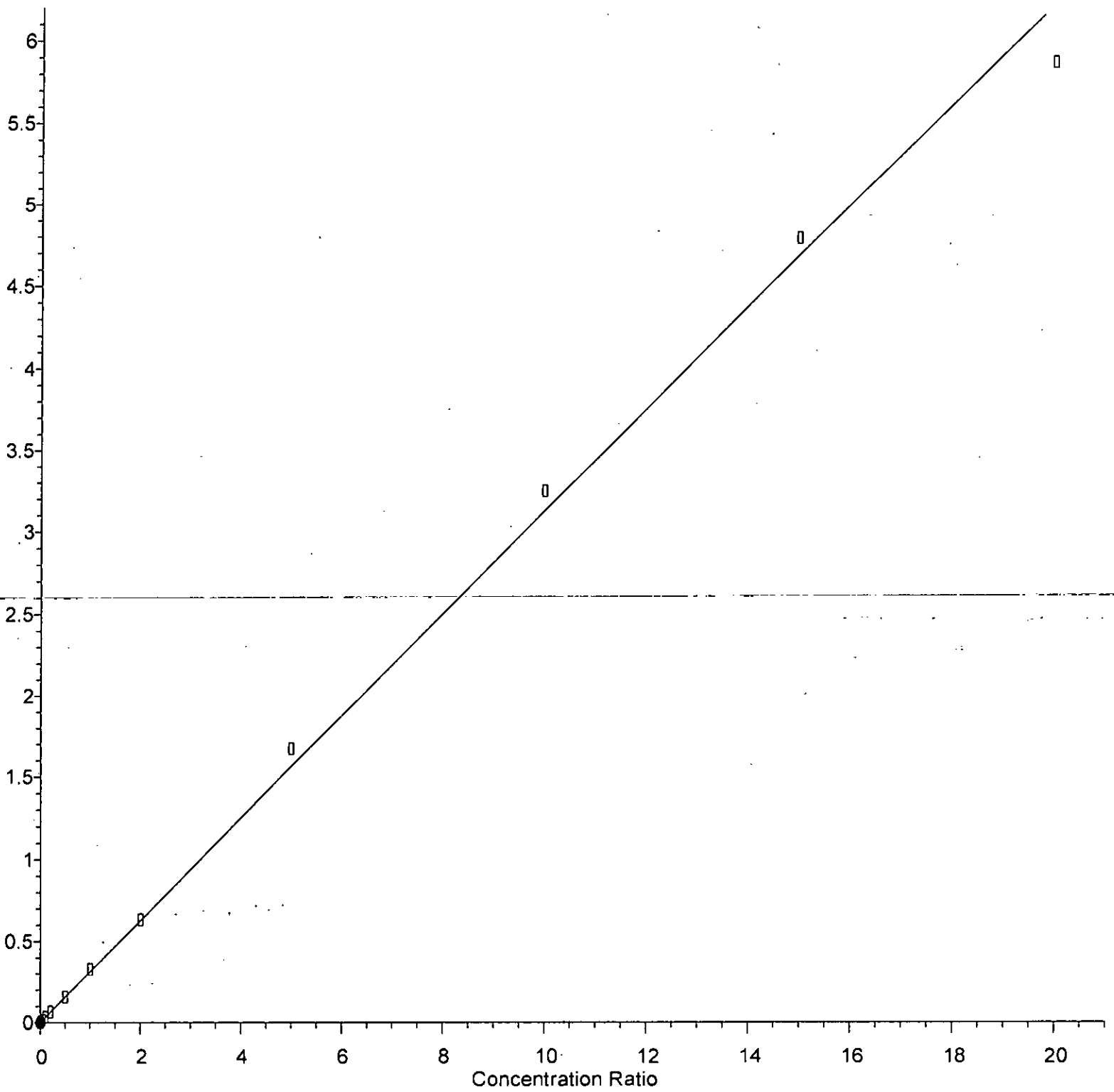
Response Ratio



$R = -1.947e-003 A^2 + 4.365e-001 A + 2.769e-004$   
Coef of Det ( $r^2$ ) = 0.999555 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,2-Dibromoethane (EDB)

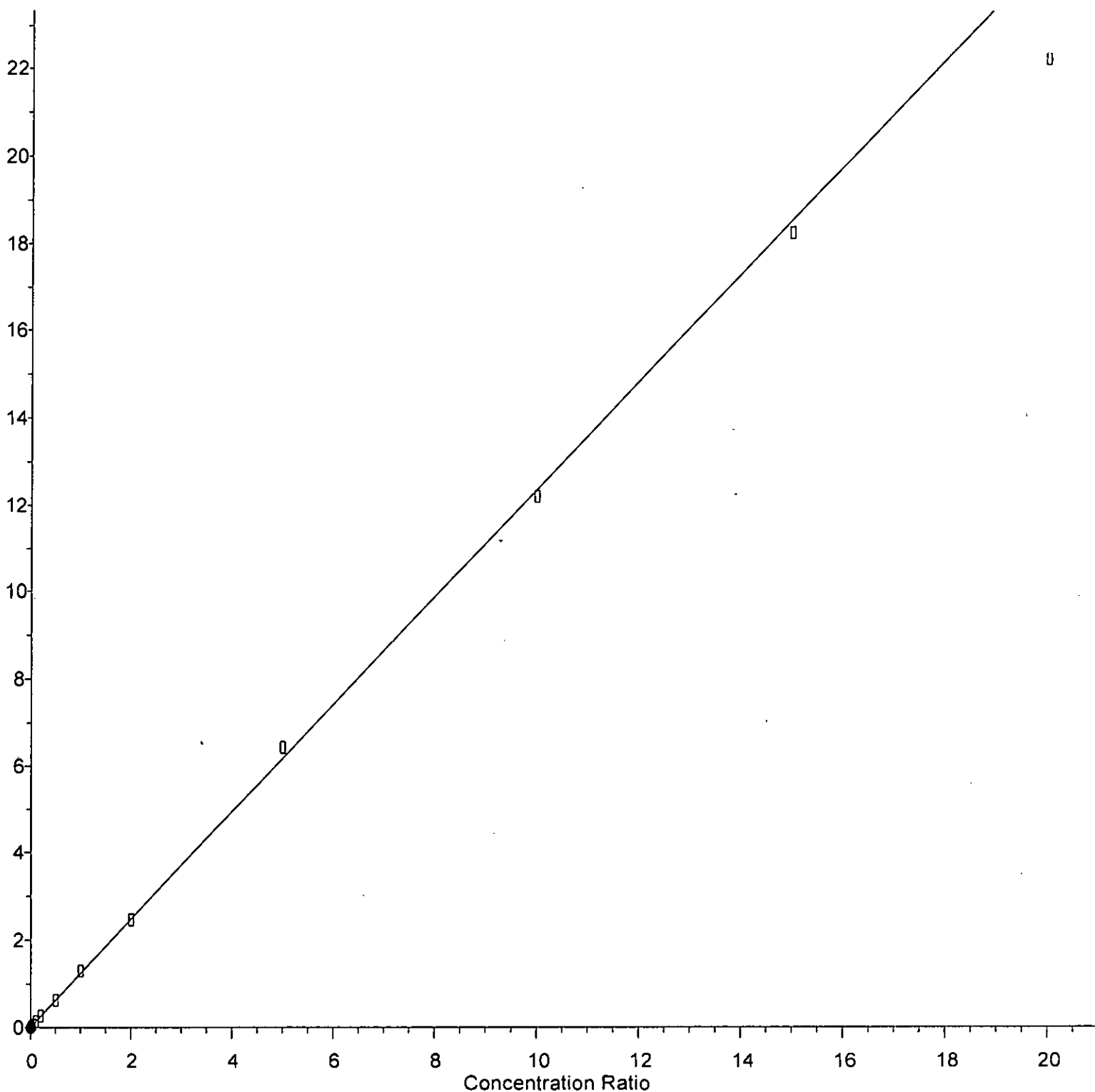
Response Ratio



Response =  $3.131e-001 * Amt + 4.197e-004$   
Coef of Det ( $r^2$ ) = 0.997817 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Ethylbenzene

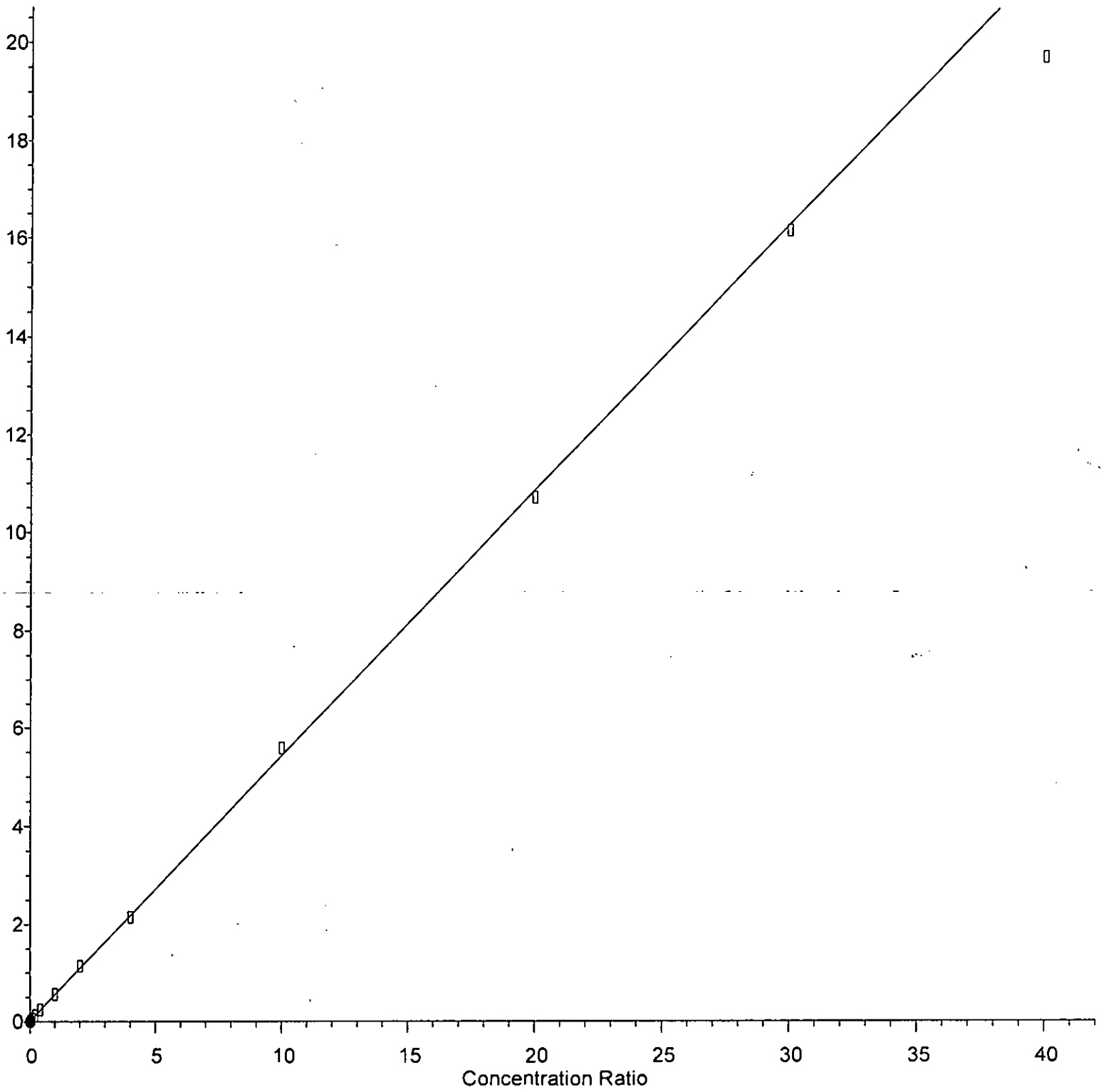
Response Ratio



Response = 1.235e+000 \* Amt + 6.127e-003  
Coef of Det (r^2) = 0.995940 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

m,p-Xylene

Response Ratio

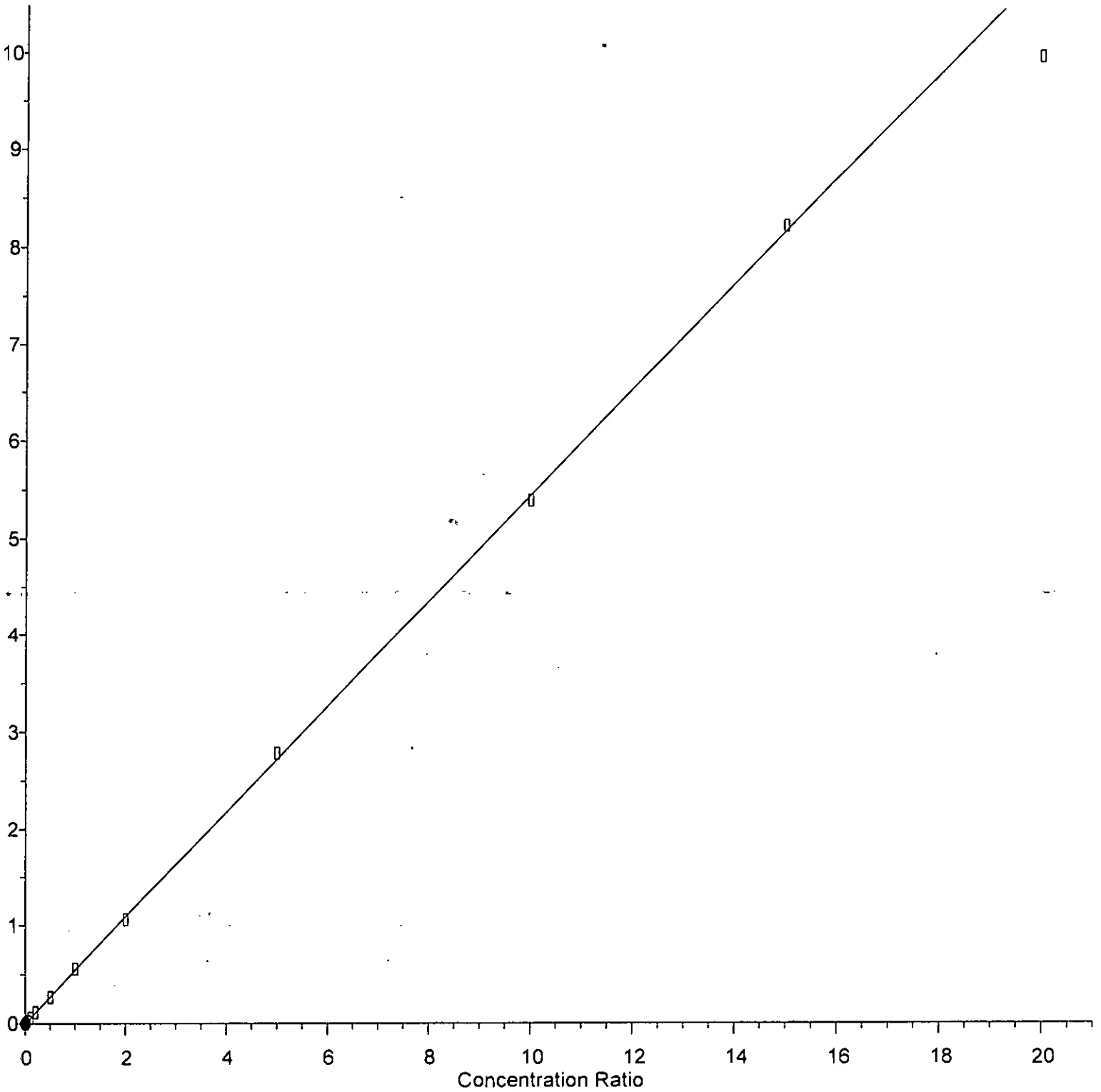


Response = 5.426e-001 \* Amt + 6.608e-003  
Coef of Det (r^2) = 0.995667 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022



o-Xylene

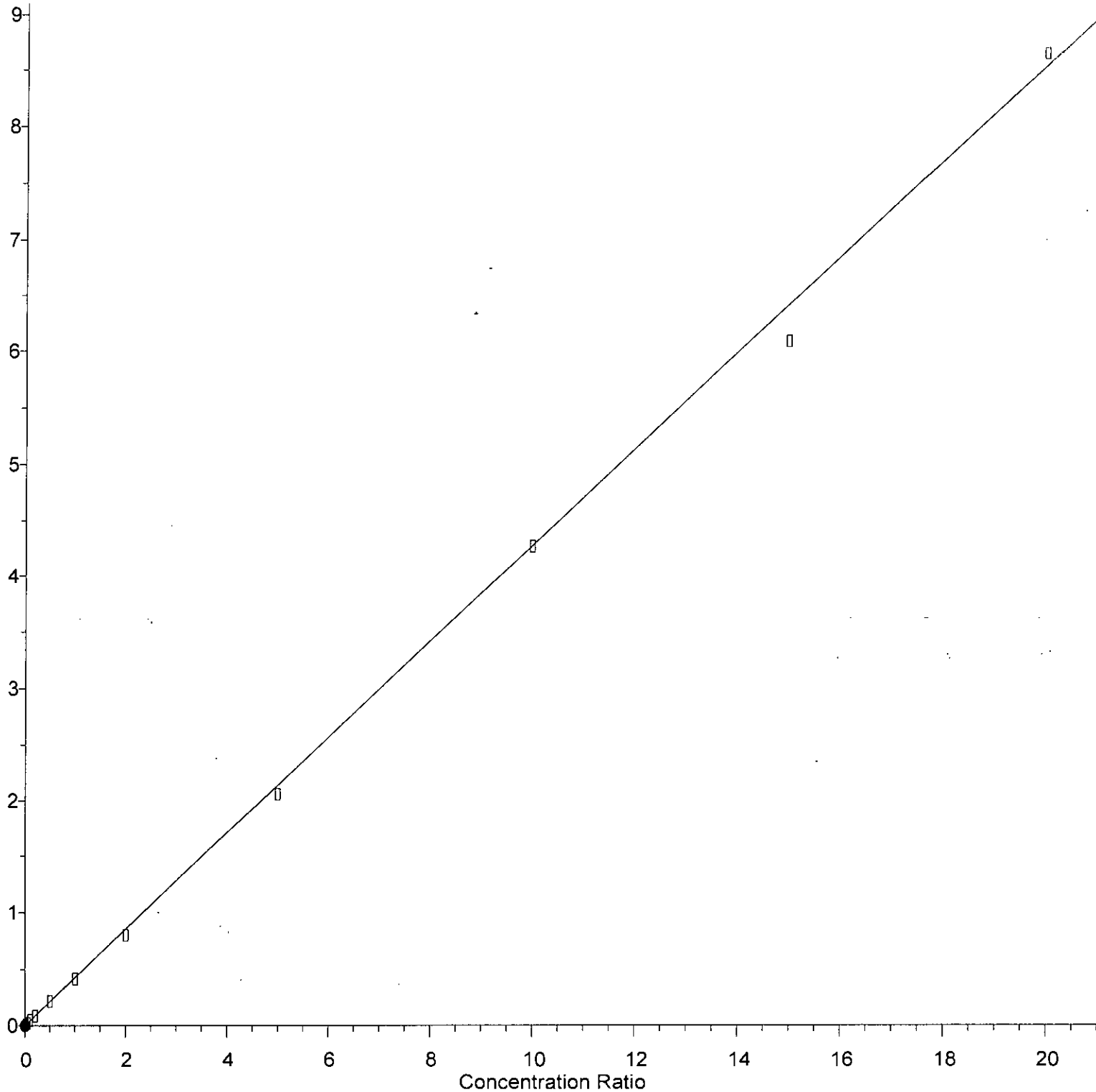
Response Ratio



Response = 5.448e-001 \* Amt + 1.255e-003  
Coef of Det (r^2) = 0.997552 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,1,2,2-Tetrachloroethane

Response Ratio

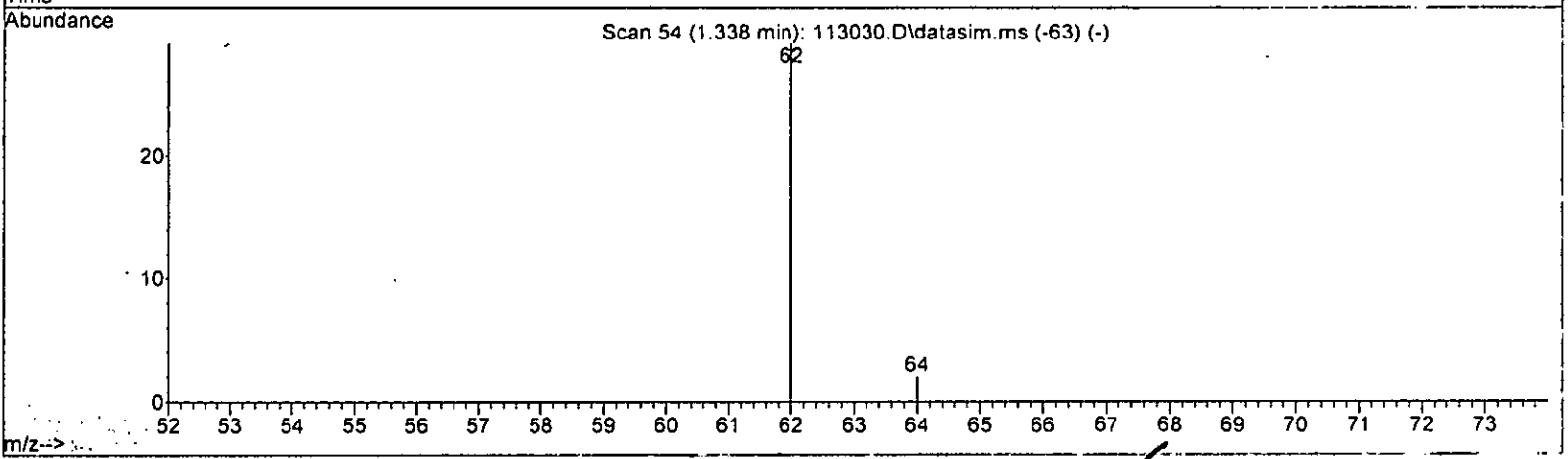
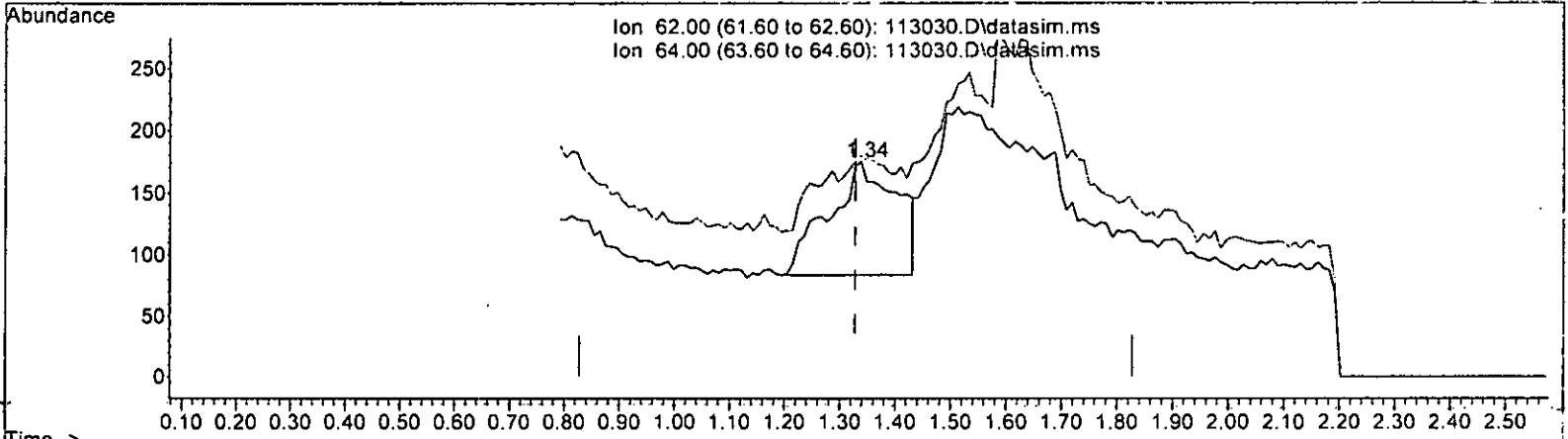


Response = 4.275e-001 \* Amt + 6.174e-004  
Coef of Det (r^2) = 0.996686 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 0.153 ppb

response 778

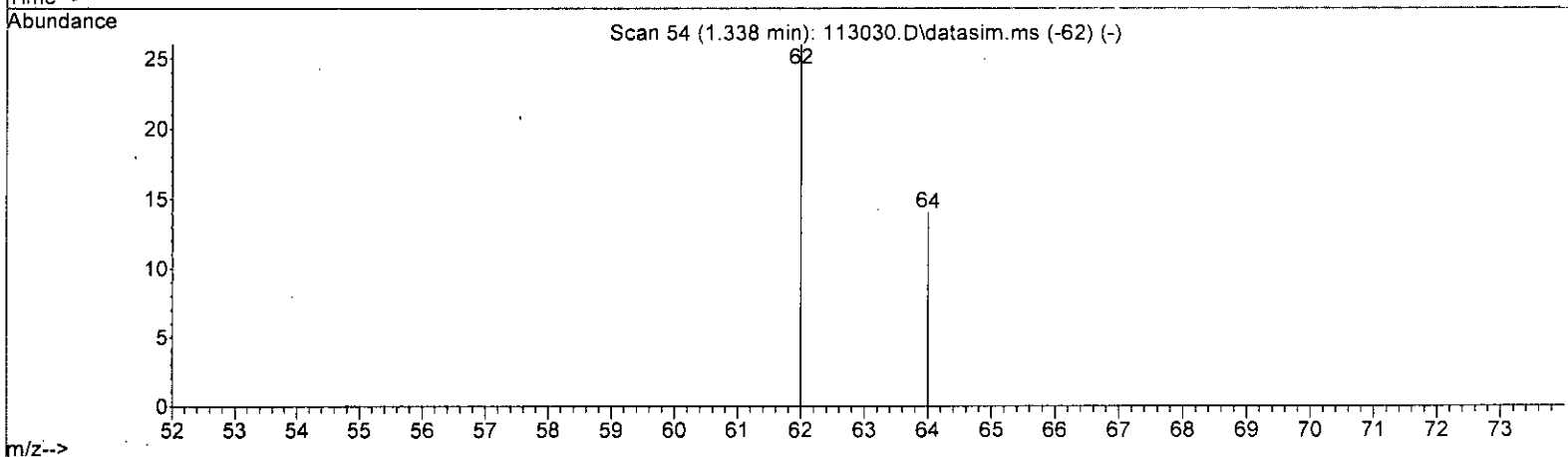
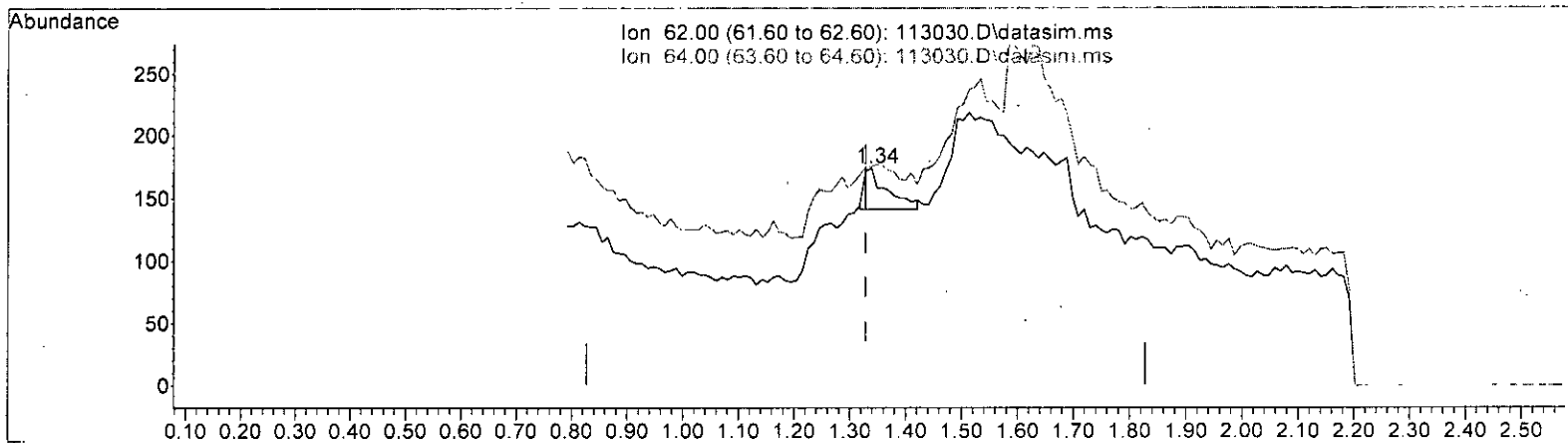
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	62.64#
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 0.019 ppb m

response 95

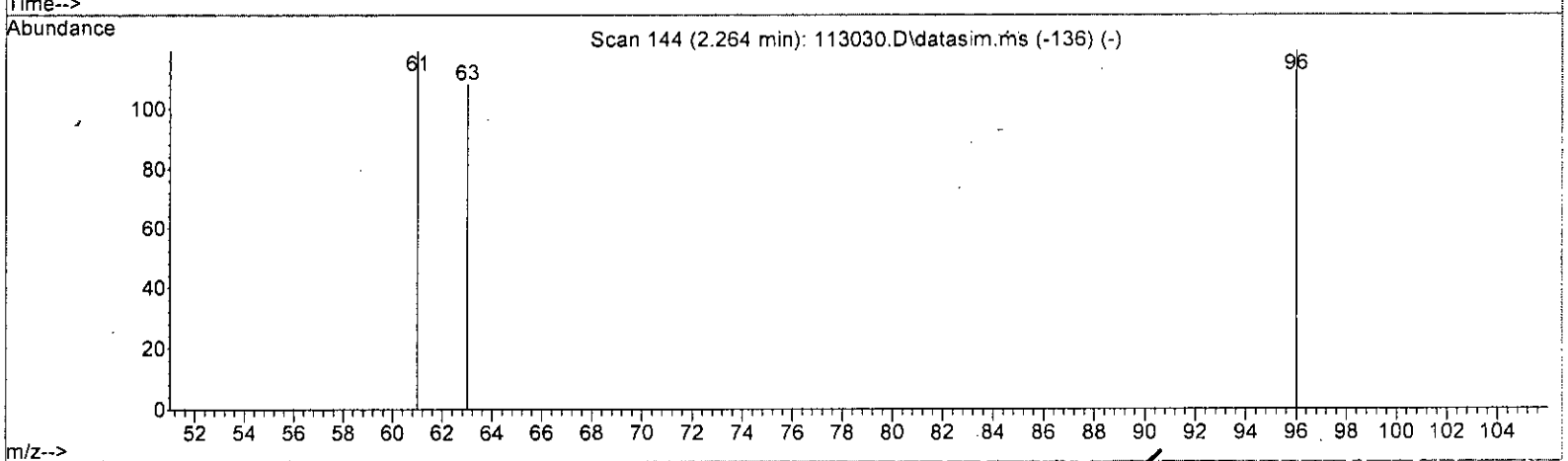
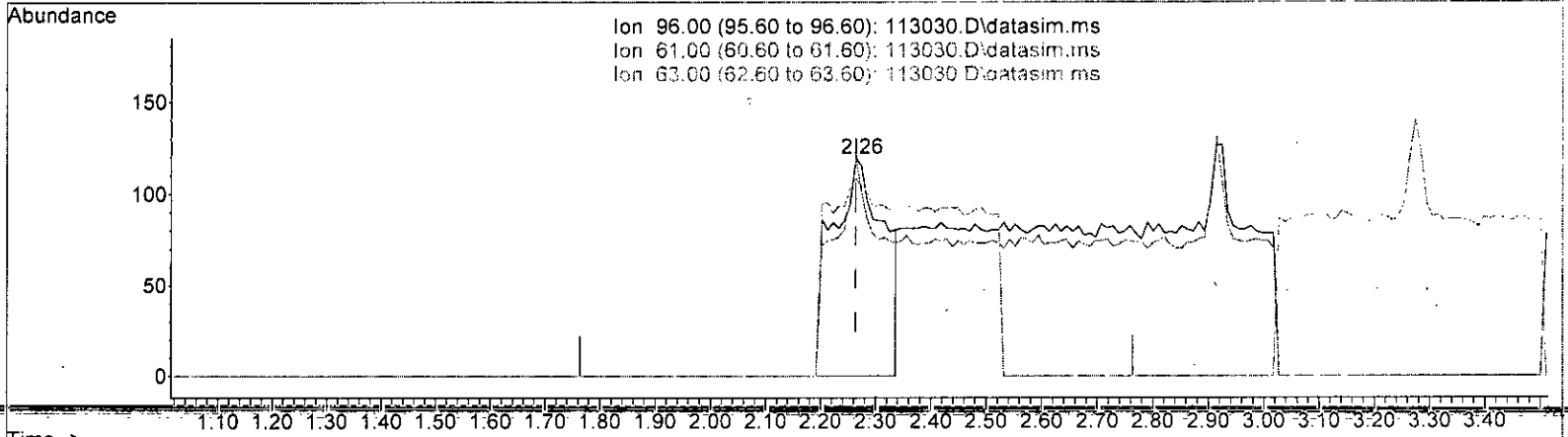
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	100.57#
0.00	0.00	0.00
0.00	0.00	0.00

*m* 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



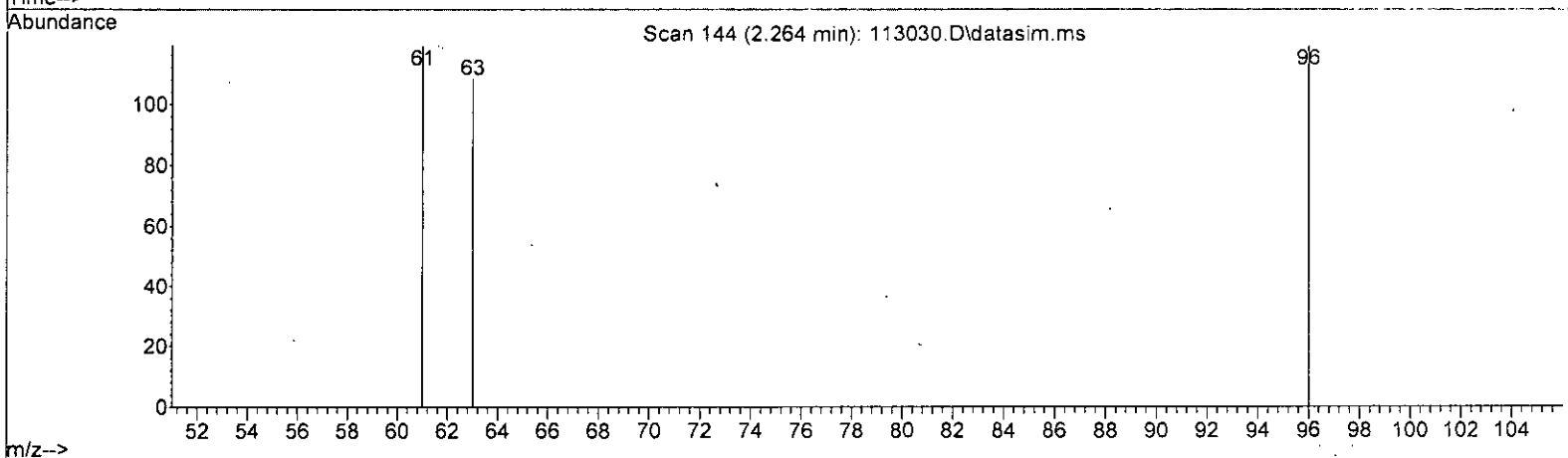
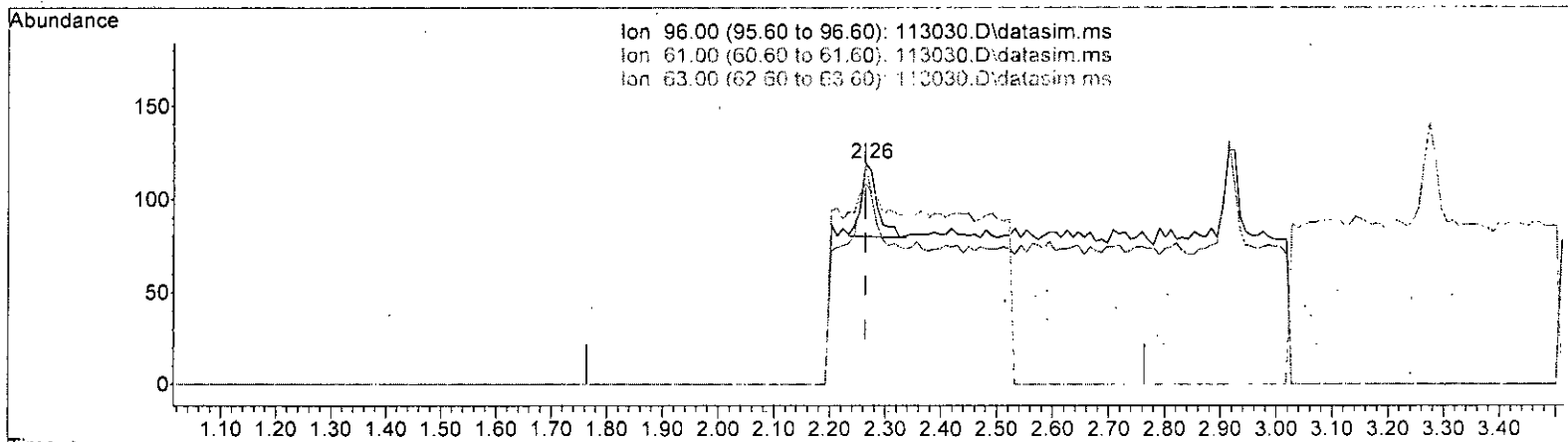
TIC: 113030.D\data.ms *m 12.1*

(12) 1,1-Dichloroethene (TMP)		
2.264min (-0.000) 0.229 ppb		
response	775	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	100.00
63.00	41.10	90.76#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

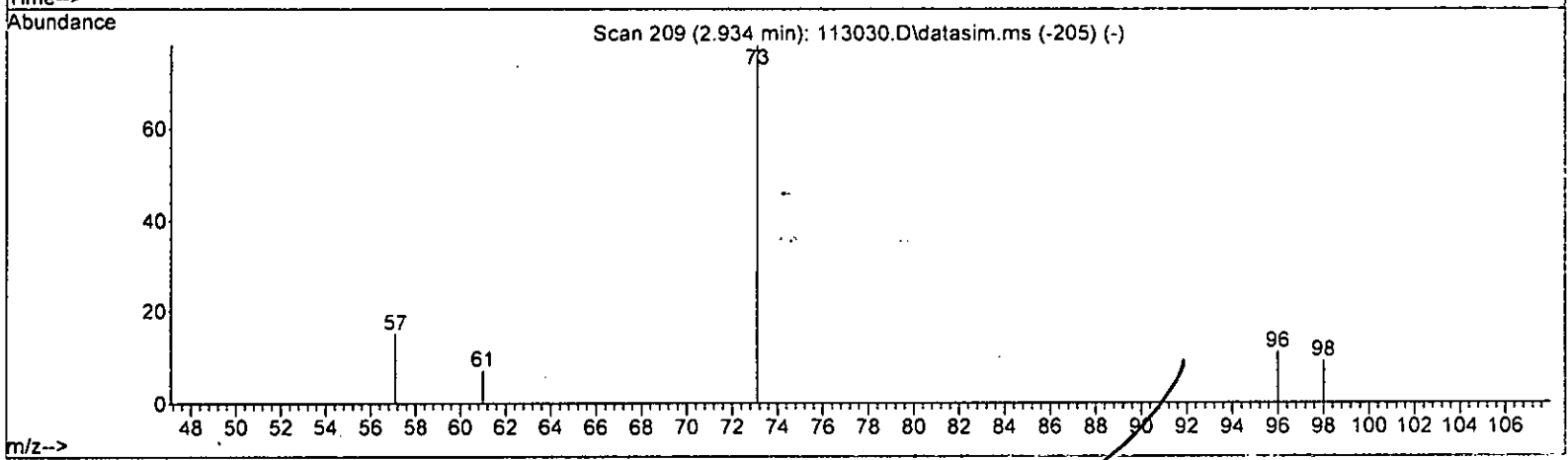
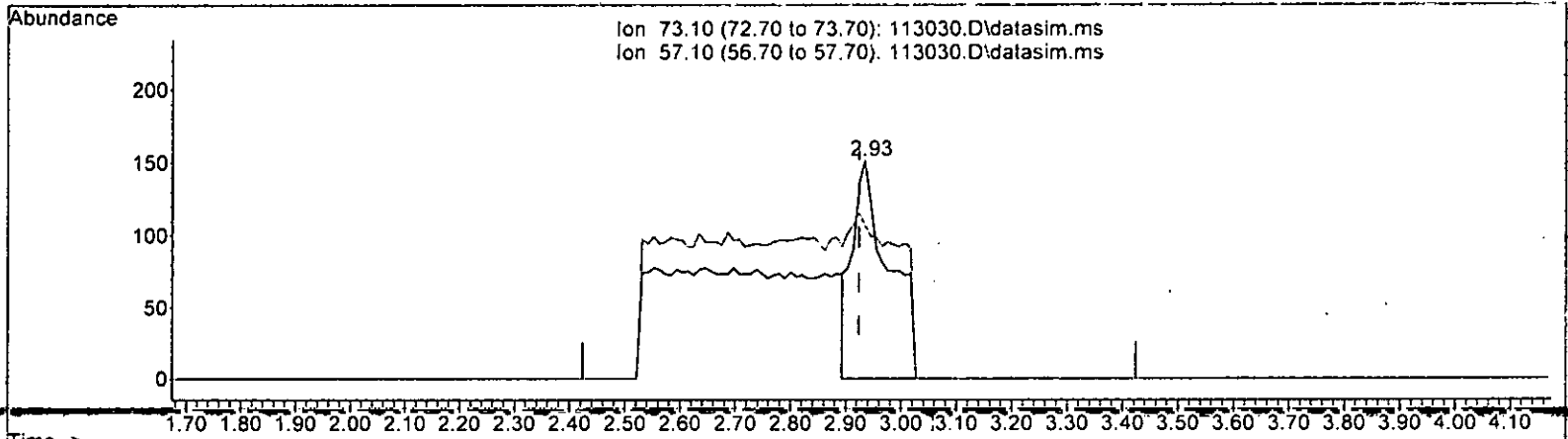
*m 12.1*

(12) 1,1-Dichloroethene (TMP)			
2.264min (-0.000) 0.024 ppb m			
response	80		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	127.10	100.00	
63.00	41.10	90.76#	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

m 12.1

(16) Methyl t-butyl ether (MTBE) (TMP)

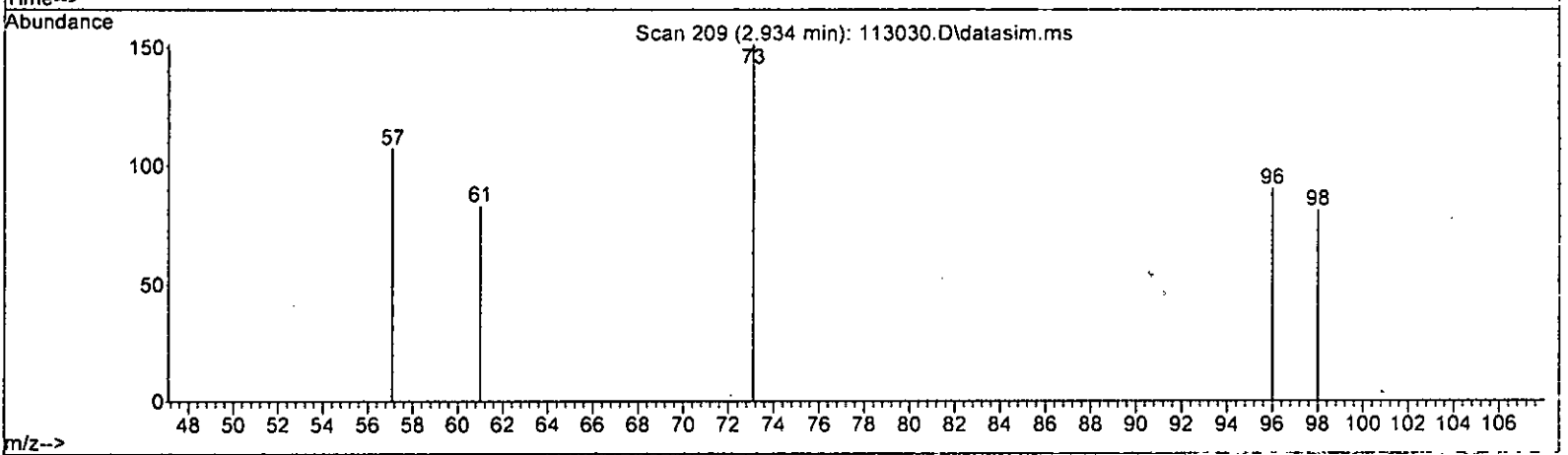
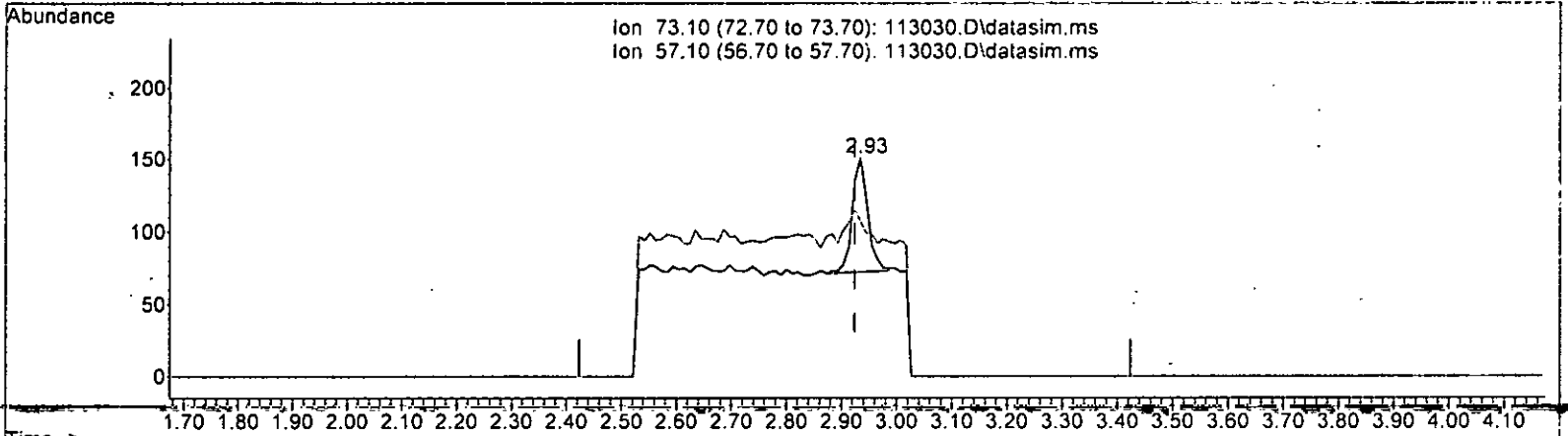
2.934min (+ 0.010) 0.085 ppb

response	691	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	70.86#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP) *M 12.1*

2.934min (+ 0.010) 0.019 ppb m

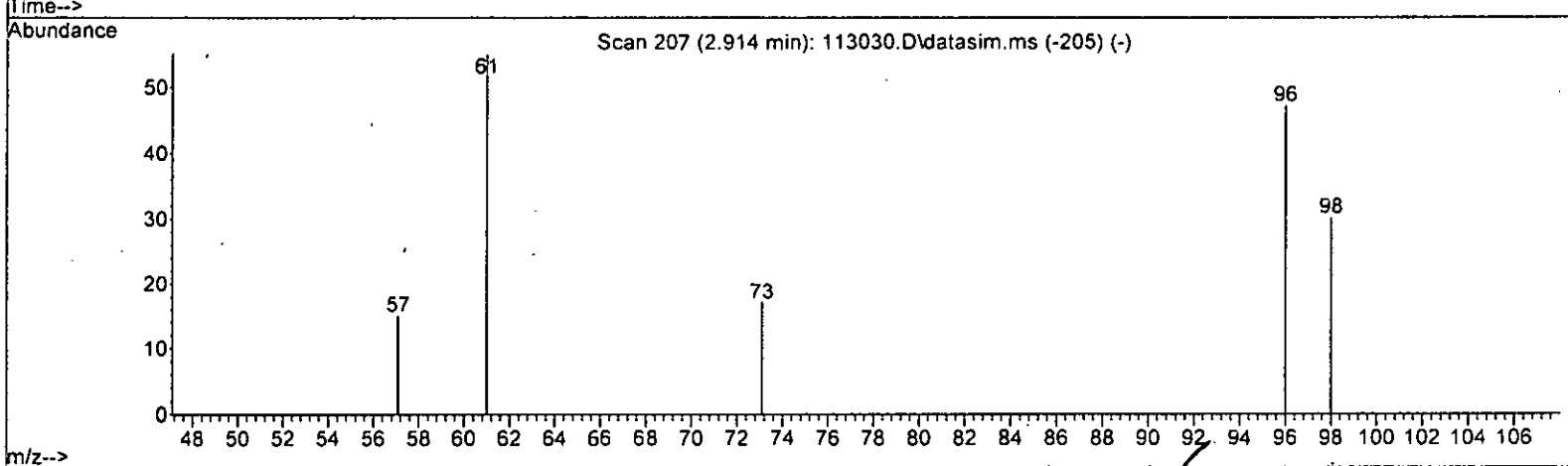
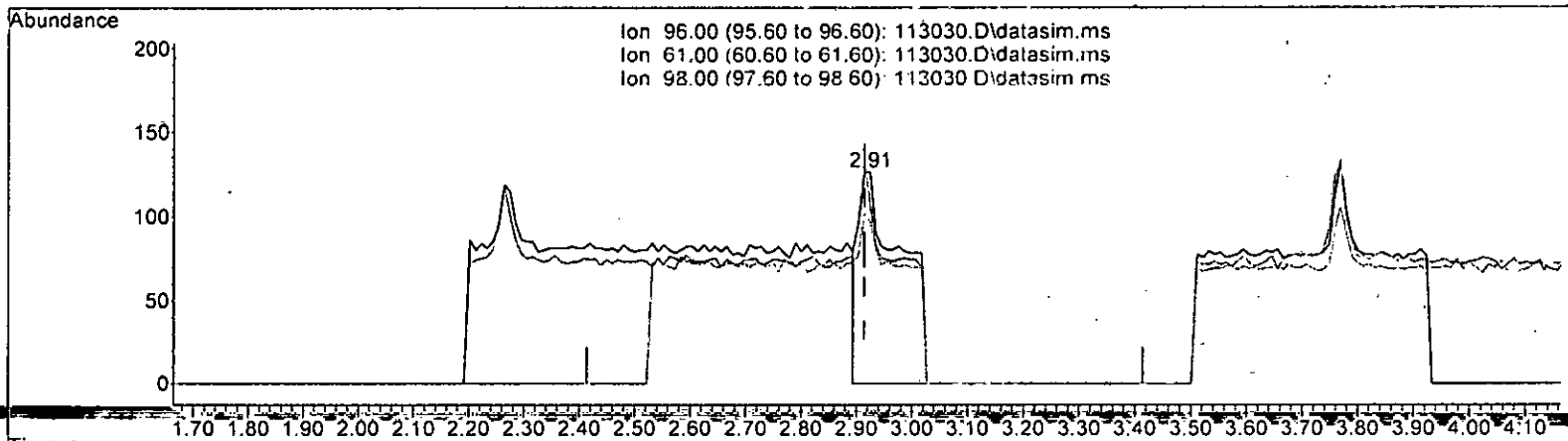
response	154
Ion	Exp% Act%
73.10	100.00 100.00
57.10	19.50 70.86#
0.00	0.00 0.00
0.00	0.00 0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.914min (-0.000) 0.178 ppb

response 666

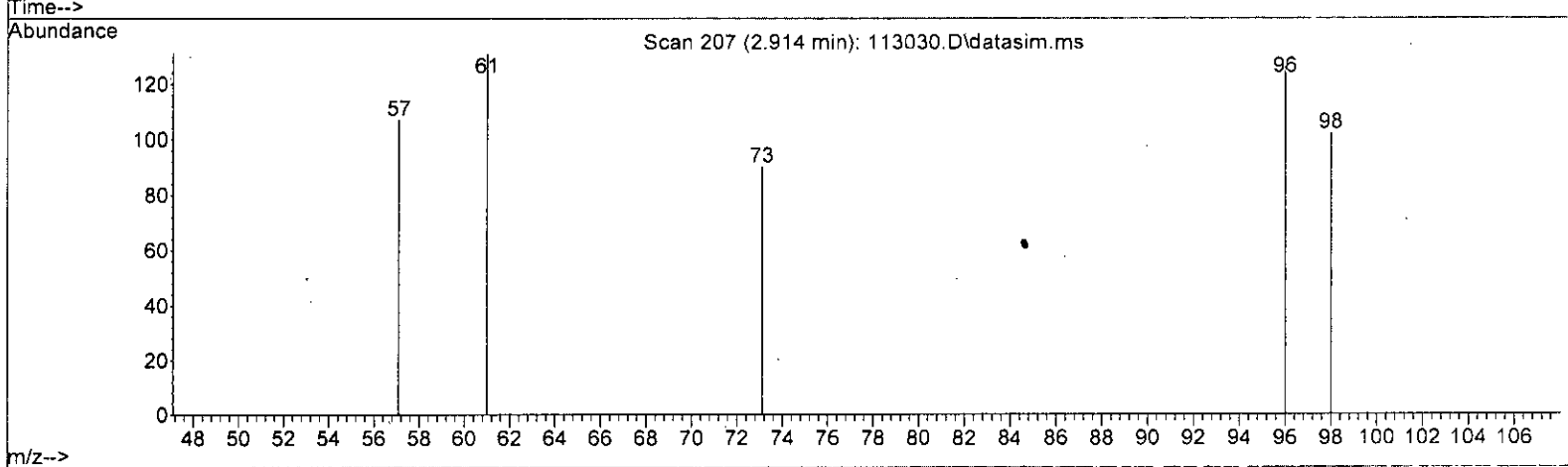
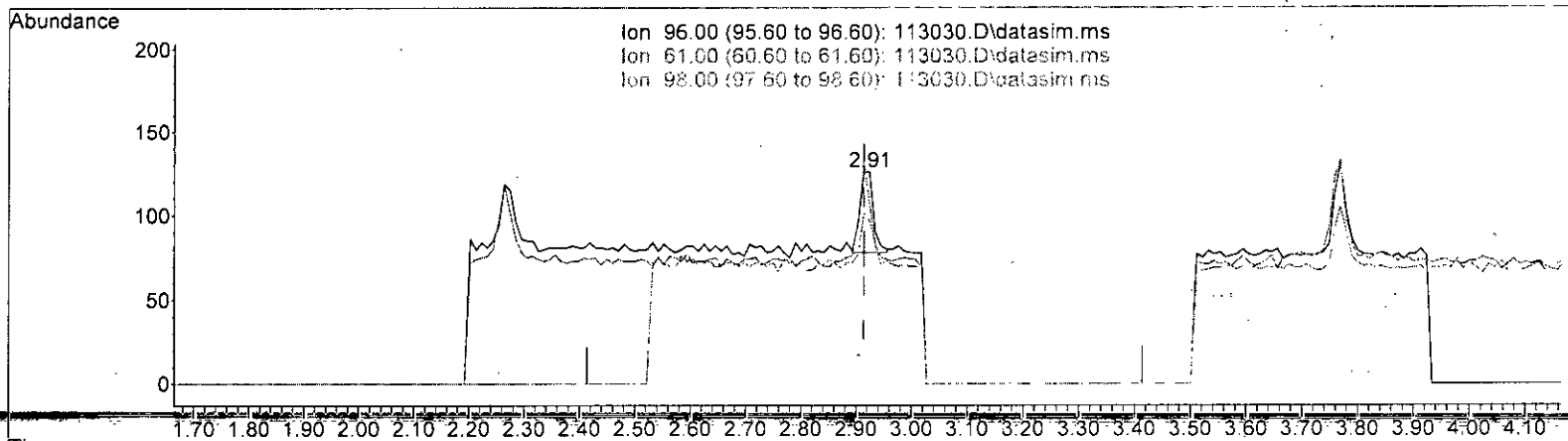
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	103.97
98.00	62.70	80.95
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) m 12.1

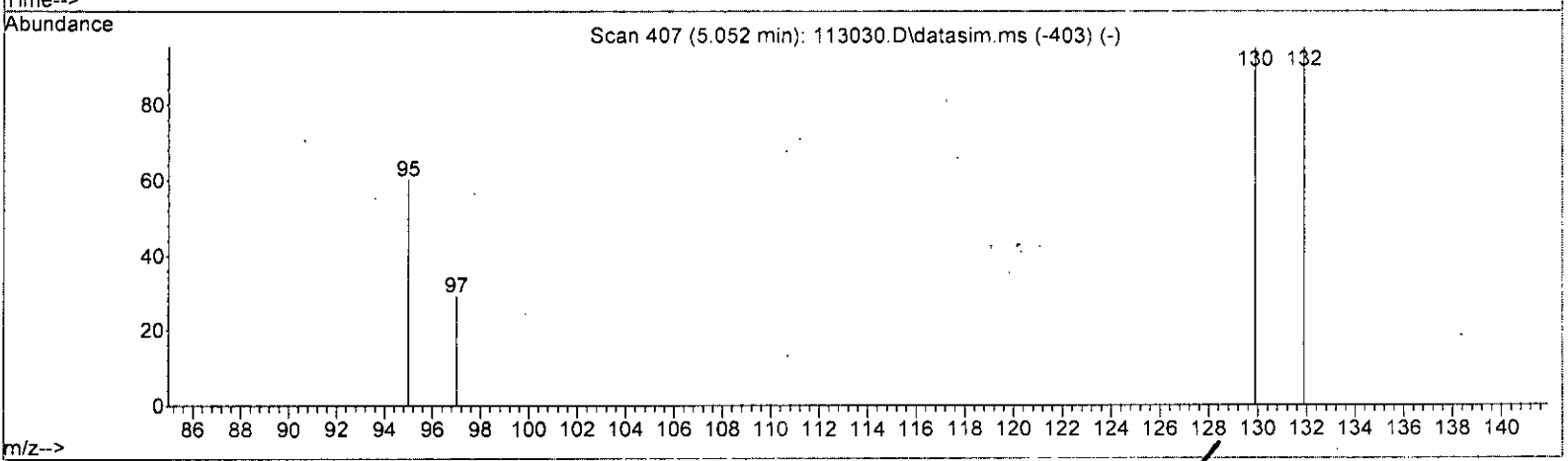
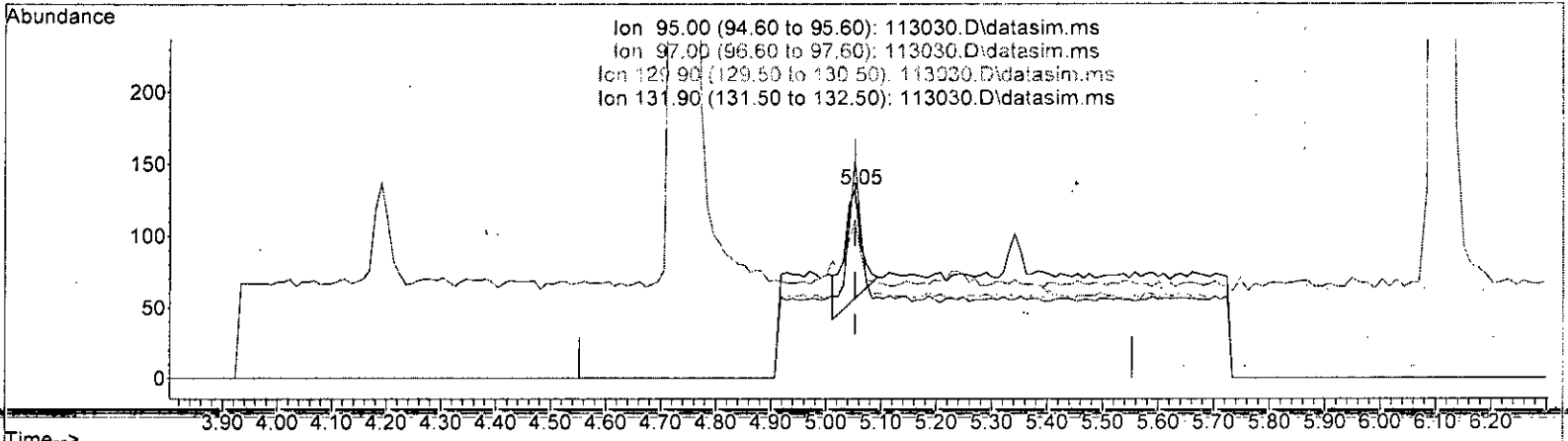
2.914min (-0.000) 0.022 ppb m

response	82
Ion	Exp% Act%
96.00	100.00 100.00
61.00	107.00 103.97
98.00	62.70 80.95
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(32) Trichloroethene (TME)

5.052min (-0.001) 0.042 ppb

response 172

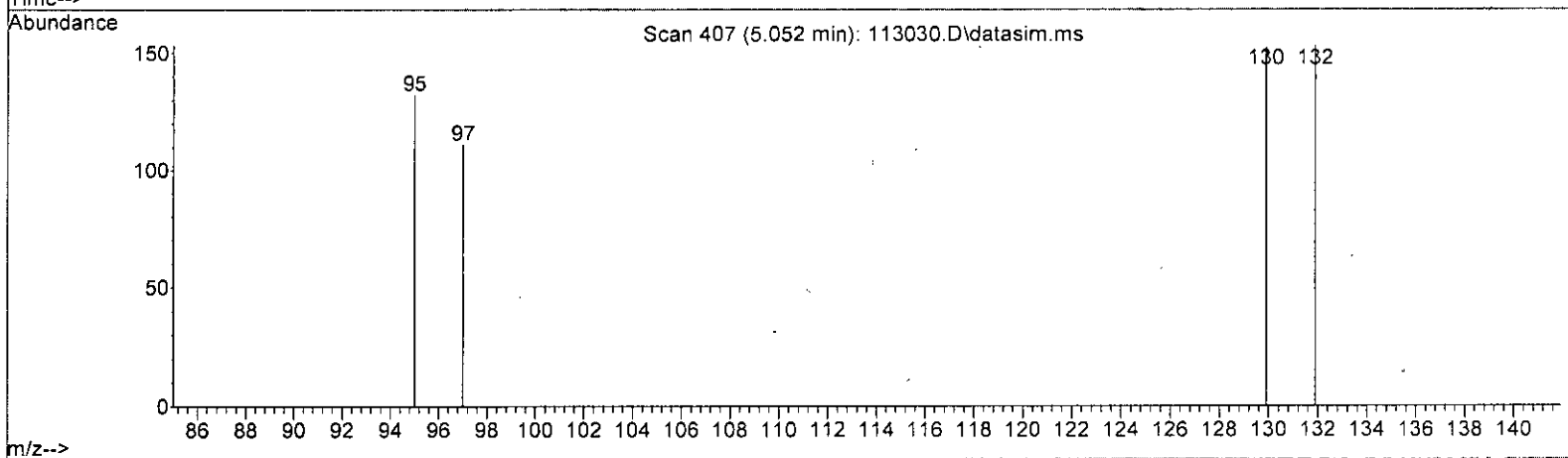
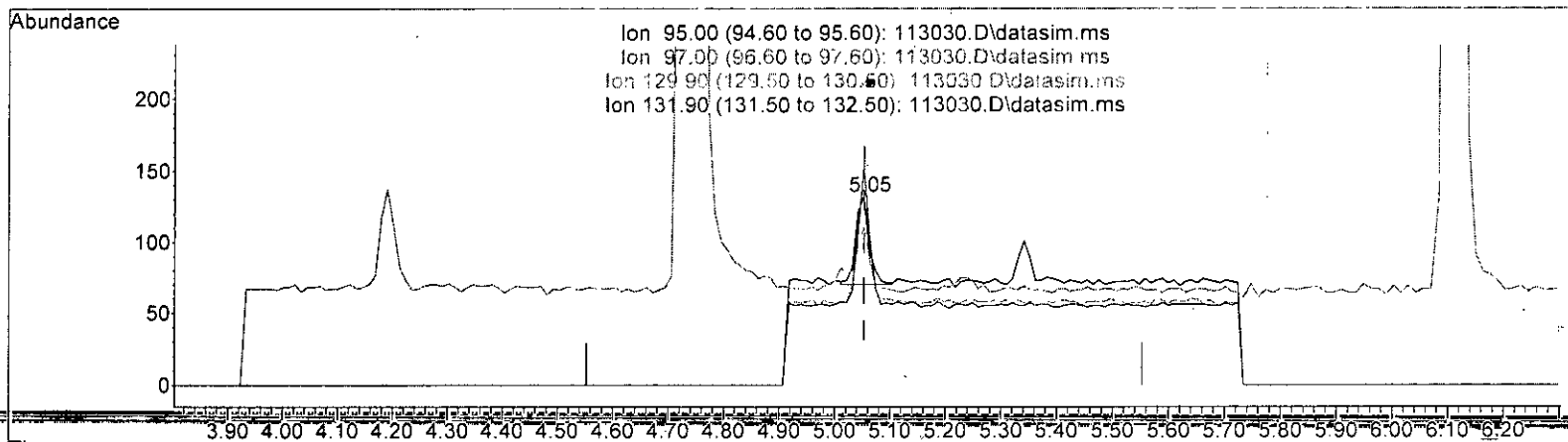
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	72.13
129.90	161.00	155.74
131.90	160.10	157.38

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(32) Trichloroethene (TMP)

5.052min (-0.001) 0.025 ppb m

response 103

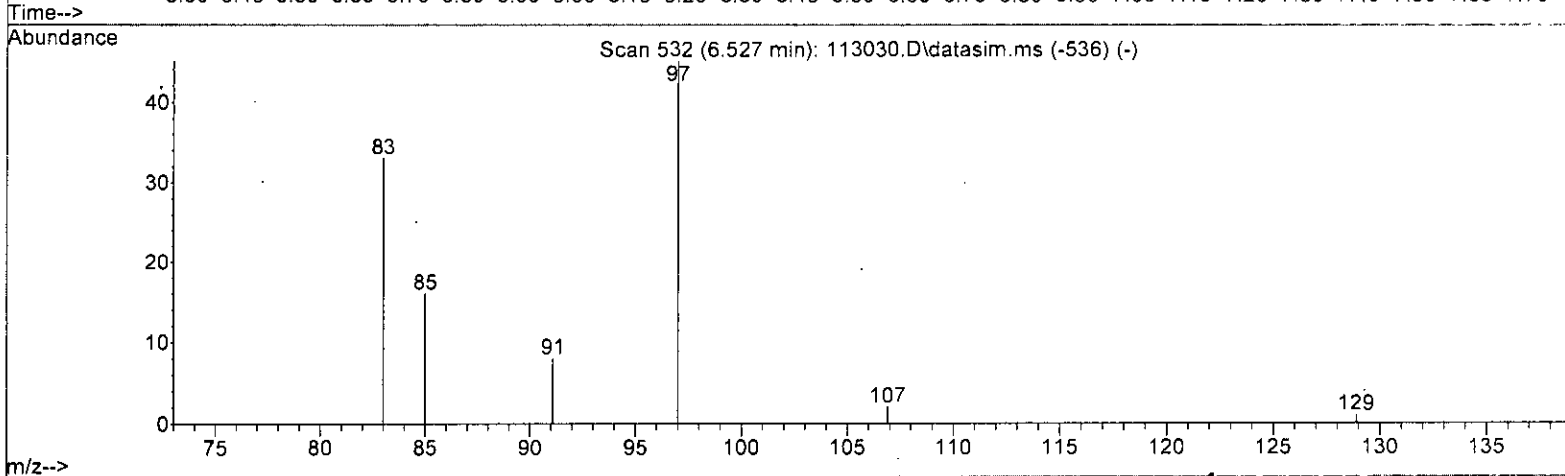
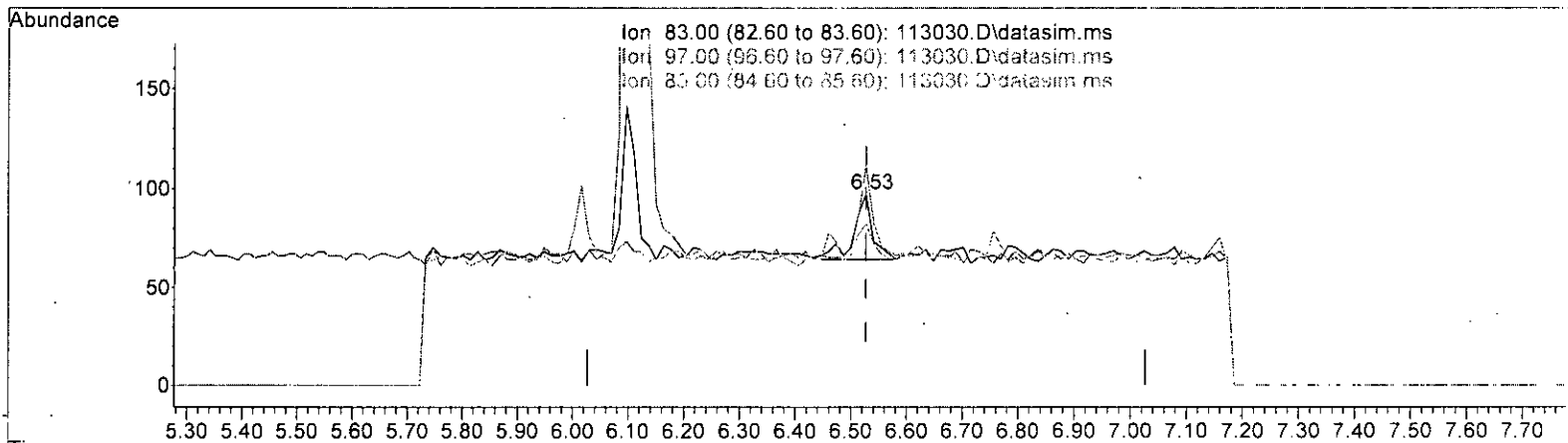
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	84.09
129.90	161.00	115.15#
131.90	160.10	115.91#

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(42) 1,1,2-Trichloroethane (TMP)

6.527min (-0.000) 0.027 ppb

response 77

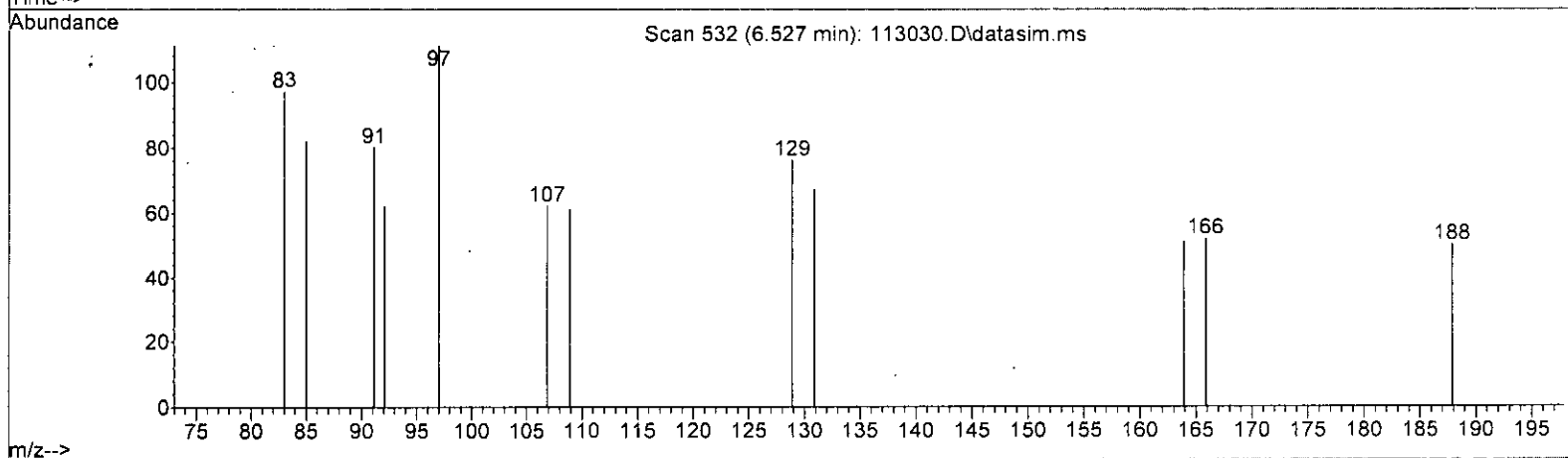
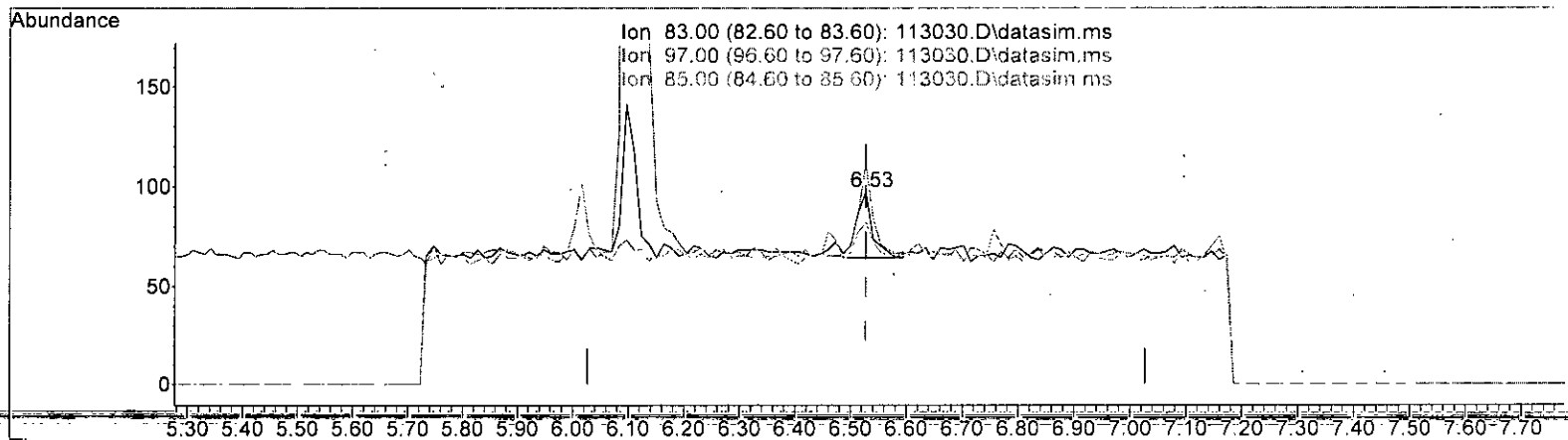
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	151.00	142.42
85.00	68.80	54.55
0.00	0.00	0.00

M.R.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

*m 12.1*

(42) 1,1,2-Trichloroethane (TMP)

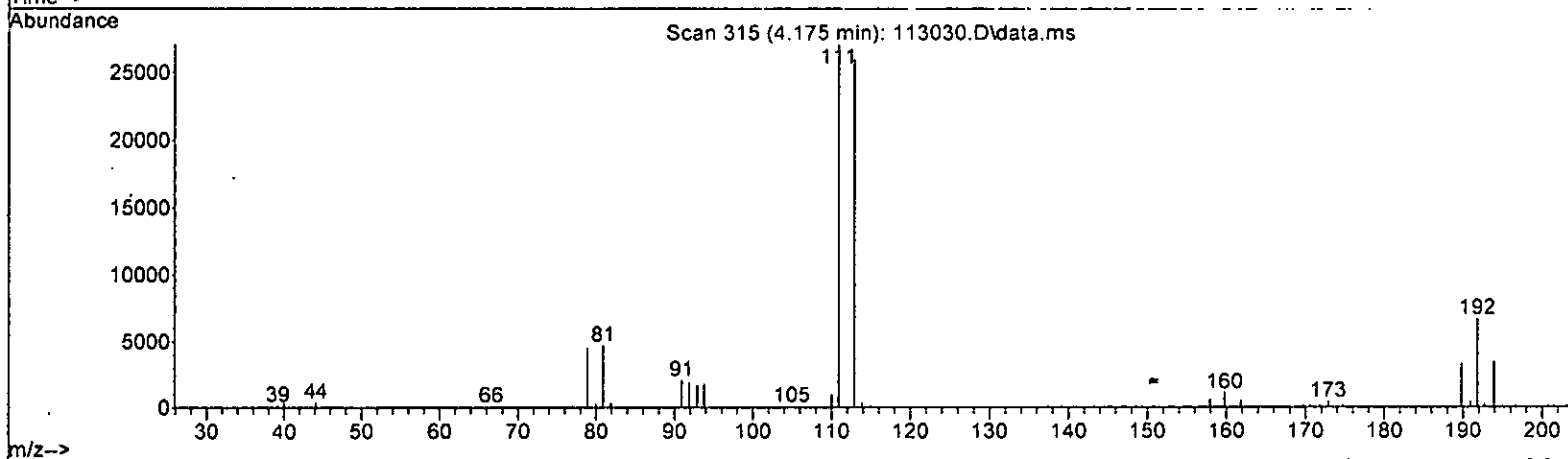
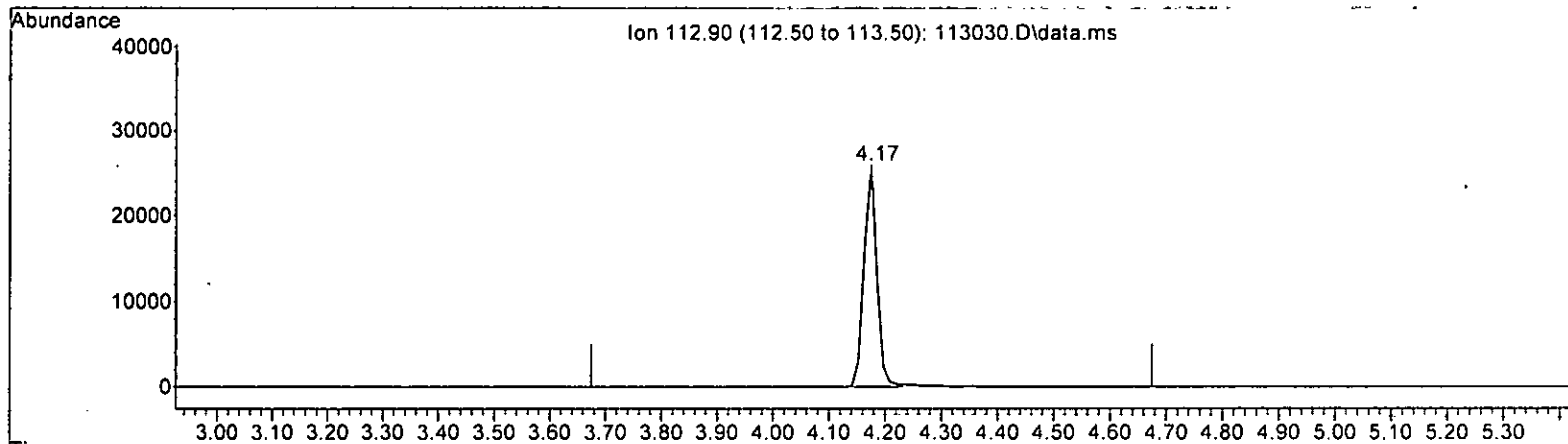
6.527min (-0.000) 0.022 ppb m

response	66	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	151.00	114.43#
85.00	68.80	84.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(3) Dibromofluoromethane (S)

4.175min (-0.000) 9.509 ppb m

response 41276

Ion	Exp%	Act%
112.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*accidental  
deletion  
m  
12.1*

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	136255	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	113476	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	70996	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	0.00	113	0d	0.000	ppb	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	0.00%#	
30) 1,2-Dichloroethane-d4	4.45	102	8431	10.363	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	103.60%	
35) Toluene-d8	6.11	98	117213	9.570	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	95.70%	
57) 4-Bromofluorobenzene	8.51	95	43877	10.199	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	102.00%	

*Handwritten notes:*  
 ← 9.509 ppm  
 95.09% m 12.1

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.	d	
4) Dichlorodifluoromethane	0.00		0	N.D.	d	
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.34	62	95m	0.019	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.	d	
9) Trichlorofluoromethane	0.00		0	N.D.	d	
10) 2-Propanol	0.00		0	N.D.	d	
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.26	96	80m	0.024	ppb	
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
16] Methyl t-butyl ether (...)	2.93	73	154m	0.019	ppb	
17] trans-1,2-Dichloroethene	2.91	96	82m	0.022	ppb	
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d	
19) 1,1-Dichloroethane	0.00		0	N.D.	d	
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d	
21) 2,2-Dichloropropane	0.00		0	N.D.	d	
22] cis-1,2-Dichloroethene	3.77	96	87	0.022	ppb	96
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26] 1,2-Dichloroethane (EDC)	4.52	62	162	0.020	ppb	97
27] 1,1,1-Trichloroethane	4.19	97	133	0.021	ppb	88
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.	d	
31] Benzene	4.50	78	289	0.013	ppb	99
32] Trichloroethene	5.05	95	103m	0.025	ppb	
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.	d	



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

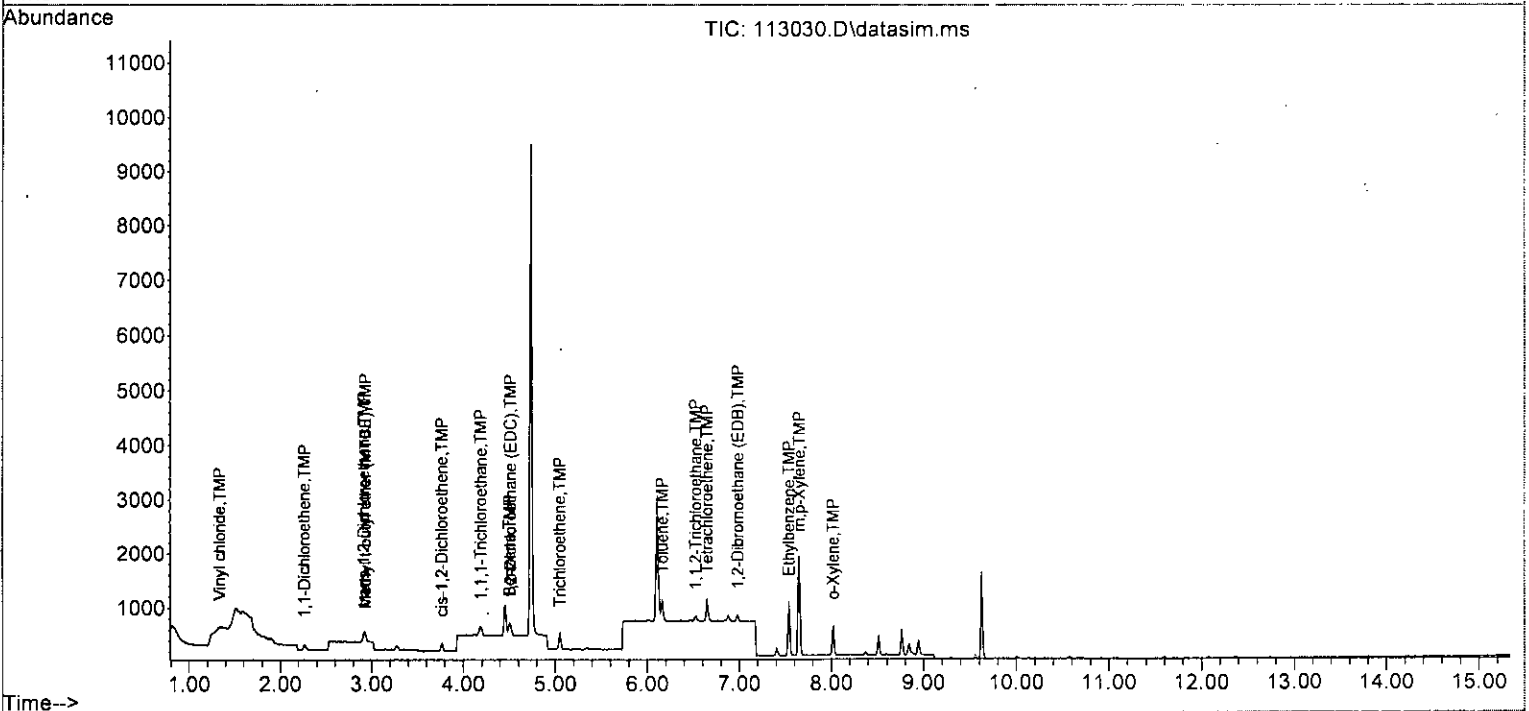
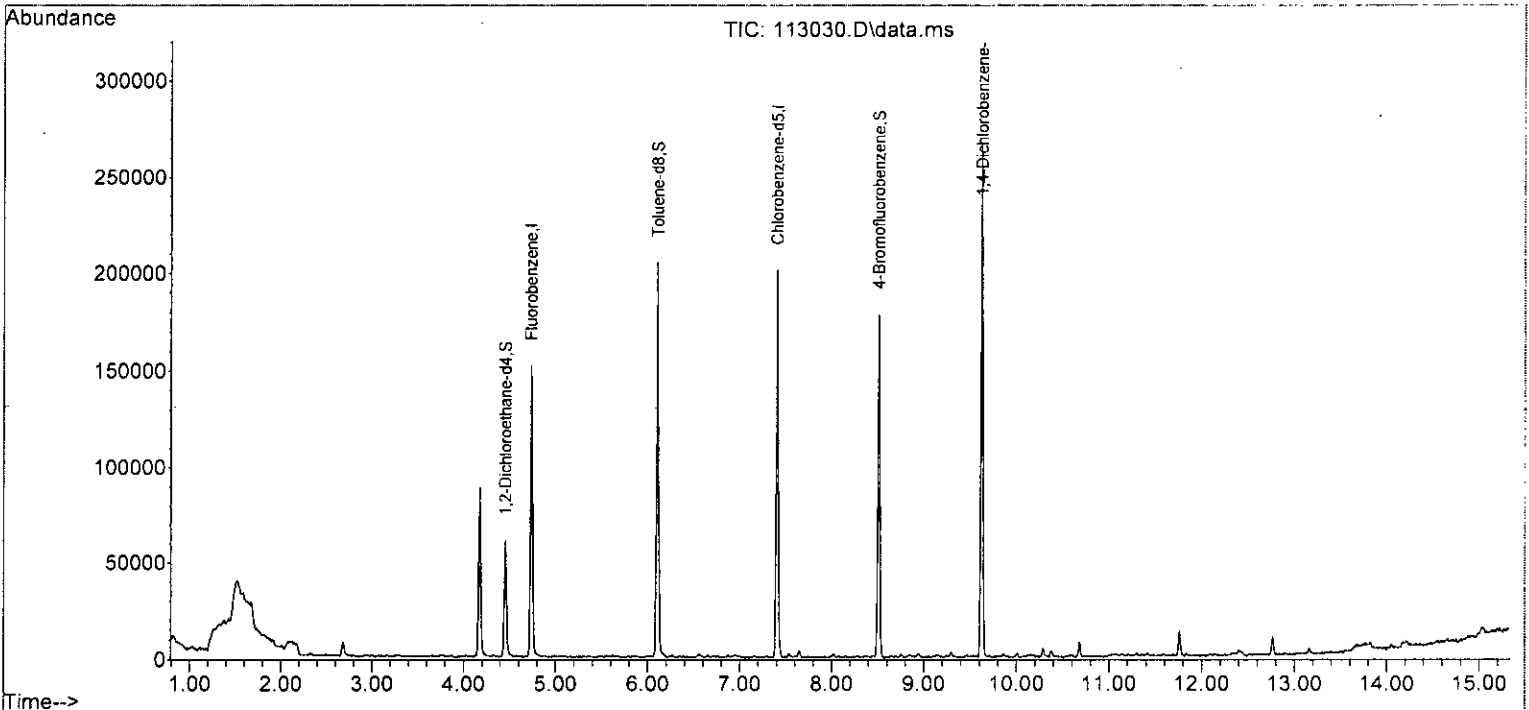
Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D. d	
40] Toluene	6.16	92	211	0.020	ppb	96
41) trans-1,3-Dichloropropene	0.00		0		N.D. d	
42] 1,1,2-Trichloroethane	6.53	83	66m	0.022	ppb	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D. d	
45] Tetrachloroethene	6.65	164	143	0.023	ppb	96
46) Dibromochloromethane	0.00		0		N.D. d	
47] 1,2-Dibromoethane (EDB)	6.98	107	110	0.018	ppb	97
48) Chlorobenzene	0.00		0		N.D. d	
49] Ethylbenzene	7.54	91	983	0.021	ppb	100
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D. d	
51] m,p-Xylene	7.65	106	1003	0.041	ppb	98
52] o-Xylene	8.02	106	268	0.020	ppb	97
53) Styrene	0.00		0		N.D. d	
54) Isopropylbenzene	0.00		0		N.D. d	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D. d	
59) Bromobenzene	0.00		0		N.D. d	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D. d	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	0.00		0		N.D. d	
64) 4-Chlorotoluene	0.00		0		N.D. d	
65) tert-Butylbenzene	0.00		0		N.D. d	
66) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
67) sec-Butylbenzene	0.00		0		N.D. d	
68) p-Isopropyltoluene	0.00		0		N.D. d	
69) 1,3-Dichlorobenzene	0.00		0		N.D. d	
70) 1,4-Dichlorobenzene	0.00		0		N.D. d	
71) 1,2-Dichlorobenzene	0.00		0		N.D. d	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D. d	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D. d	
74) Hexachlorobutadiene	0.00		0		N.D. d	
75) Naphthalene	0.00		0		N.D. d	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-2.33#
3 S	Dibromofluoromethane	10.000	0.000	100.0#	0	-4.17#
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.020	0.019	5.0	104	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.83#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-2.33#
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.020	0.024	-20.0	104	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.16#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.020	0.019	5.0	94	0.01
17 TMP	trans-1,2-Dichloroethene	0.020	0.022	-10.0	104	0.00
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP	1,1-Dichloroethane	0.020	0.000	100.0#	0	-3.27#
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP	2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.020	0.022	-10.0	100	0.00
23 TMP	Chloroform	-1.000	0.000	0.0	0	-4.04#
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.61#
26 TMP	1,2-Dichloroethane (EDC)	0.020	0.020	0.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.020	0.021	-5.0	100	0.00
28 TMP	1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.33#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.33#
30 S	1,2-Dichloroethane-d4	10.000	10.363	-3.6	100	0.00
31 TMP	Benzene	0.020	0.013	35.0#	100	0.00
32 TMP	Trichloroethene	0.020	0.025	-25.0#	134	0.00
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.24#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.48#
35 S	Toluene-d8	10.000	9.570	4.3	100	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.88#
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.020	0.020	0.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP	1,1,2-Trichloroethane	0.020	0.022	-10.0	106	0.00
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45 TMP Tetrachloroethene	0.020	0.023	-15.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.020	0.018	10.0	100	0.01
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49 TMP Ethylbenzene	0.020	0.021	-5.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.51#
51 TMP m,p-Xylene	0.040	0.041	-2.5	100	0.00
52 TMP o-Xylene	0.020	0.020	0.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.37#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.20#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	10.000	10.199	-2.0	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.77#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.94#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.66#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.70#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.95#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.30#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.46#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.56#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.01#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.83#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.08#

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-2.33#
3 S Dibromofluoromethane	0.319	0.000	100.0#	0#	-4.17#
4 TMP Dichlorodifluoromethane	0.582	0.000#	100.0#	0#	-1.11#
5 TMP Chloromethane	0.386	0.000#	100.0#	0#	-1.25#
6 TMP Vinyl chloride	0.373	0.349	6.4	104	0.00
7 TMP Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.200	0.000#	100.0#	0#	-1.64#
9 TMP Trichlorofluoromethane	1.015	0.000#	100.0#	0#	-1.83#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.33#
11 TMP Acetone	0.022	0.000#	100.0#	0#	-2.32#
12 TMP 1,1-Dichloroethene	0.248	0.294	-18.5	104	0.00
13 TMP Hexane	0.244	0.000#	100.0#	0#	-3.16#
14 TMP Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.022	0.000#	100.0#	0#	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.565	5.2	94	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.301	-9.9	104	0.00
18 TMP Diisopropyl ether (DIPE)	0.533	0.000#	100.0#	0#	-3.34#
19 TMP 1,1-Dichloroethane	0.341	0.000#	100.0#	0#	-3.27#
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.000#	100.0#	0#	-3.65#
21 TMP 2,2-Dichloropropane	0.297	0.000#	100.0#	0#	-3.76#
22 TMP cis-1,2-Dichloroethene	0.296	0.319	-7.8	100	0.00
23 TMP Chloroform	0.441	0.000#	100.0#	0#	-4.04#
24 TMP 2-Butanone (MEK)	0.102	0.000#	100.0#	0#	-3.78#
25 TMP t-Amyl methyl ether (TAME)	0.551	0.000#	100.0#	0#	-4.61#
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.594	-77.8#	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.488	-4.3	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.000#	100.0#	0#	-4.33#
29 TMP Carbon tetrachloride	0.497	0.000#	100.0#	0#	-4.33#
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.849	1.061	-25.0#	100	0.00
32 TMP Trichloroethene	0.304	0.378	-24.3#	134	0.00
33 TMP 1,2-Dichloropropane	0.189	0.000#	100.0#	0#	-5.24#
34 TMP Bromodichloromethane	0.316	0.000#	100.0#	0#	-5.48#
35 S Toluene-d8	0.899	0.860	4.3	100	0.00
36 TMP Dibromomethane	0.173	0.000#	100.0#	0#	-5.34#
37 TMP 4-Methyl-2-pentanone	0.040	0.000#	100.0#	0#	-6.01#
38 TMP cis-1,3-Dichloropropene	0.329	0.000#	100.0#	0#	-5.88#
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.930	-29.3#	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.000#	100.0#	0#	-6.36#
42 TMP 1,1,2-Trichloroethane	0.204	0.291	-42.6#	106	0.00
43 TMP 2-Hexanone	0.142	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.443	0.630	-42.2#	100	0.00
46 TMP Dibromochloromethane	0.425	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.485	-44.8#	100	0.01
48 TMP Chlorobenzene	0.943	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.560	4.331	-177.6#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.000#	100.0#	0#	-7.51#
51 TMP m,p-Xylene	0.718	2.210	-207.8#	100	0.00
52 TMP o-Xylene	0.611	1.181	-93.3#	100	0.00
53 TMP Styrene	0.848	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.353	0.000#	100.0#	0#	-8.37#
55 TMP Bromoform	0.302	0.000#	100.0#	0#	-8.20#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.618	-2.0	100	0.00
58 TMP n-Propylbenzene	2.257	0.000#	100.0#	0#	-8.77#
59 TMP Bromobenzene	0.821	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	1.836	0.000#	100.0#	0#	-8.94#
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.000#	100.0#	0#	-8.66#
62 TMP 1,2,3-Trichloropropane	0.337	0.000#	100.0#	0#	-8.70#
63 TMP 2-Chlorotoluene	1.282	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	1.552	0.000#	100.0#	0#	-8.95#
65 TMP tert-Butylbenzene	1.946	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	1.975	0.000#	100.0#	0#	-9.30#
67 TMP sec-Butylbenzene	2.396	0.000#	100.0#	0#	-9.46#
68 TMP p-Isopropyltoluene	2.400	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.476	0.000#	100.0#	0#	-9.56#
70 TMP 1,4-Dichlorobenzene	1.456	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.422	0.000#	100.0#	0#	-10.01#
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.997	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.588	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	1.938	0.000#	100.0#	0#	-11.83#
76 TMP 1,2,3-Trichlorobenzene	0.789	0.000#	100.0#	0#	-12.08#

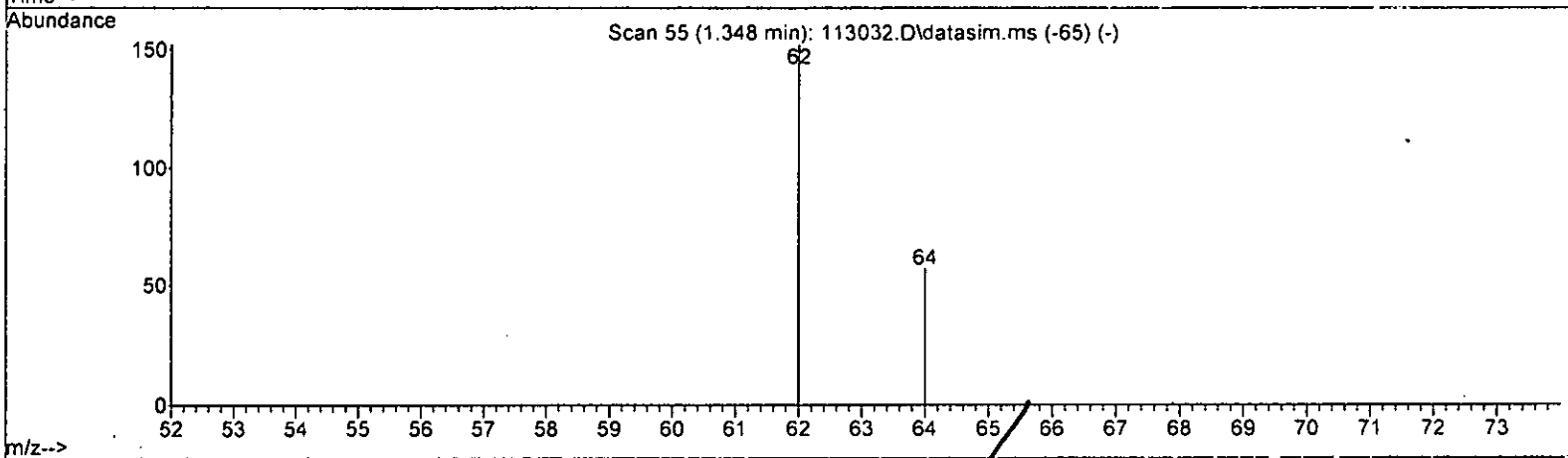
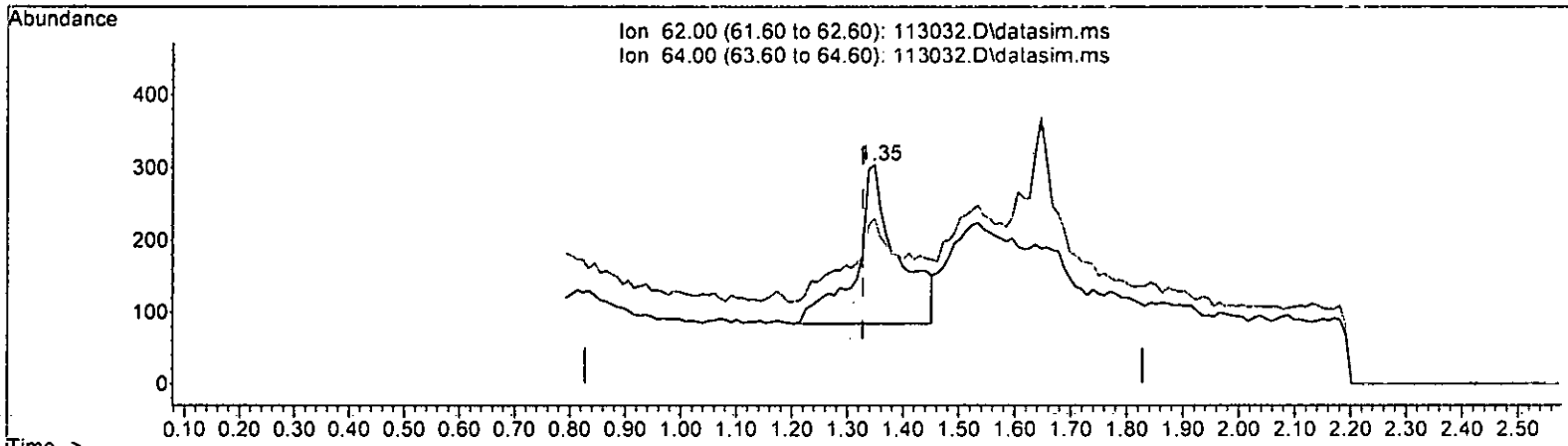
(#) = Out of Range

SPCC's out = 52 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

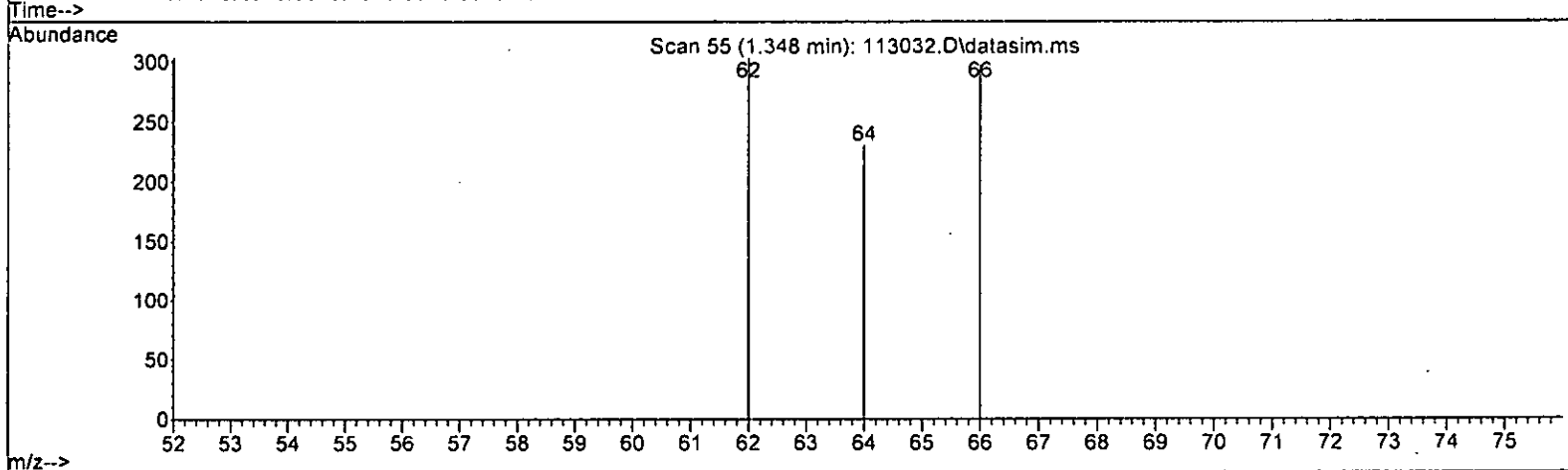
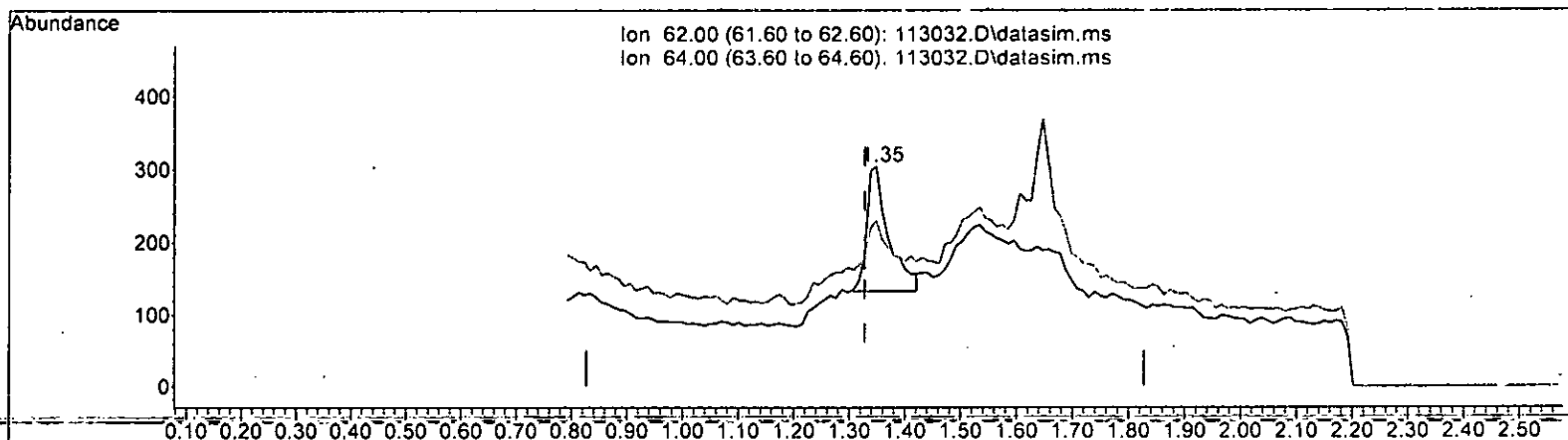
m 12.1

(6) Vinyl chloride (TMP)		
1.348min (+ 0.020)	0.222 ppb	
response	1138	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	52.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

*M (2.1)*

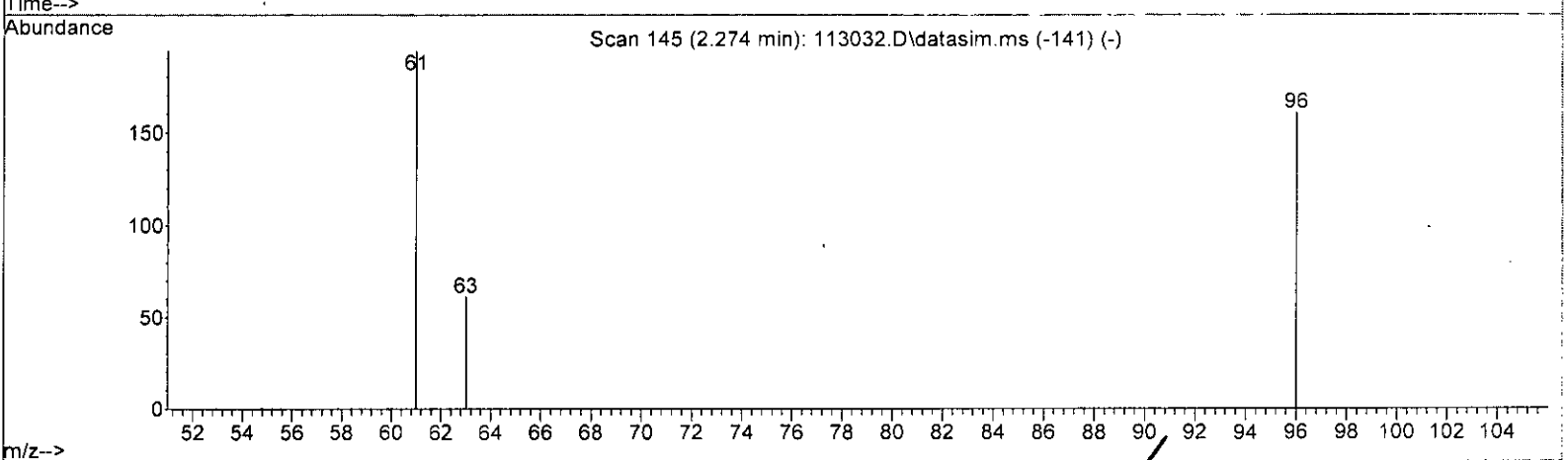
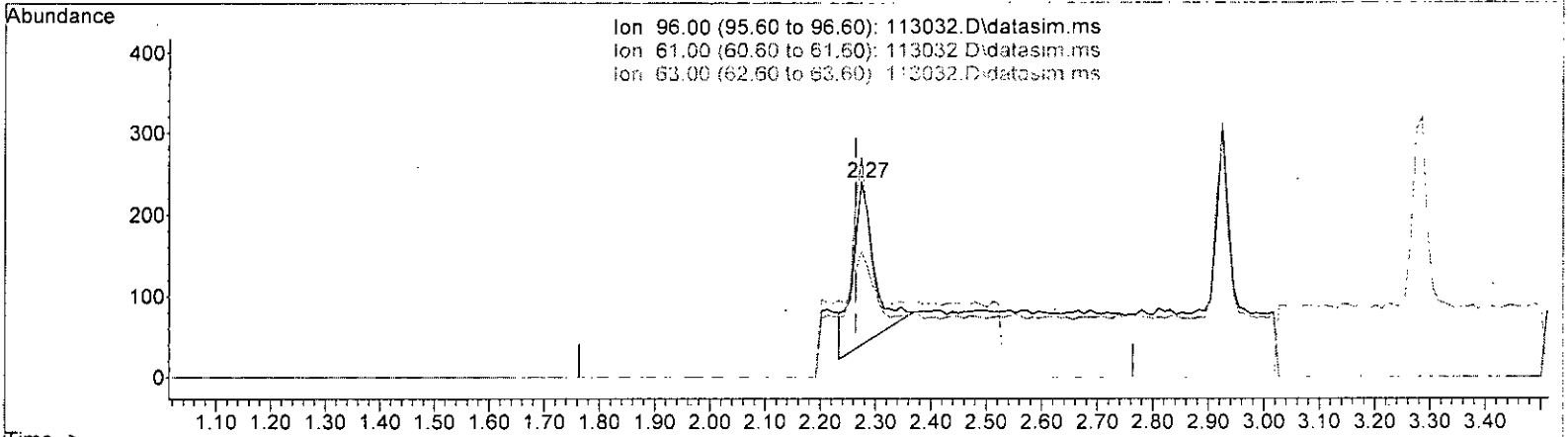
(6) Vinyl chloride (TMP)			
1.348min (+ 0.020) 0.092 ppb m			
response	469		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	30.20	75.91#	
0.00	0.00	0.00	
0.00	0.00	0.00	



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.274min (+ 0.010) 0.158 ppb

response 536

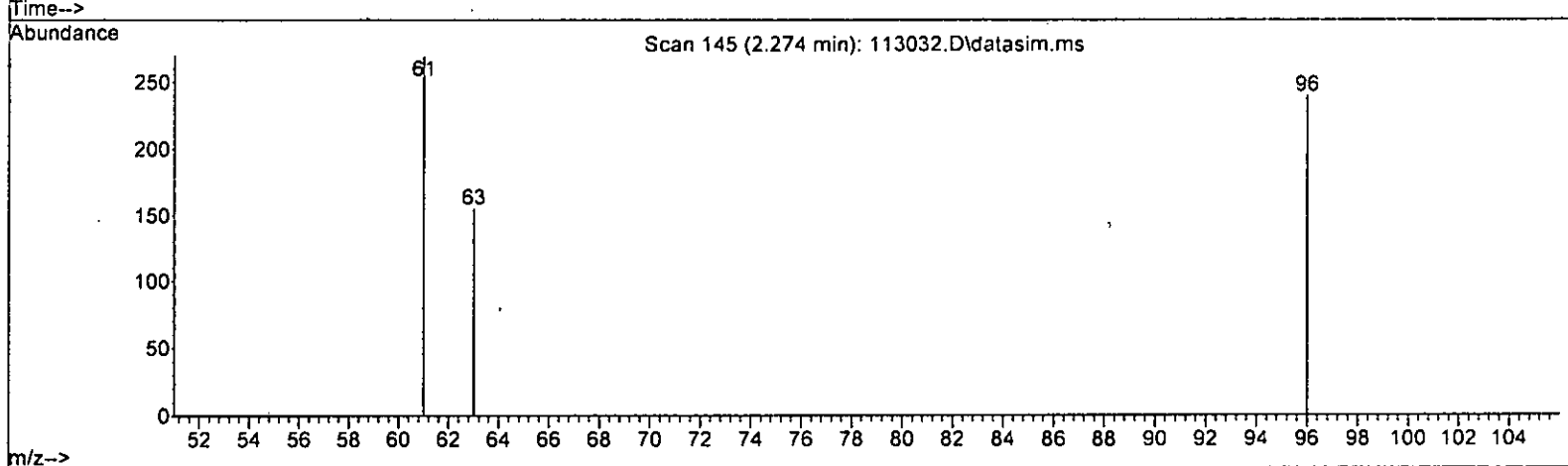
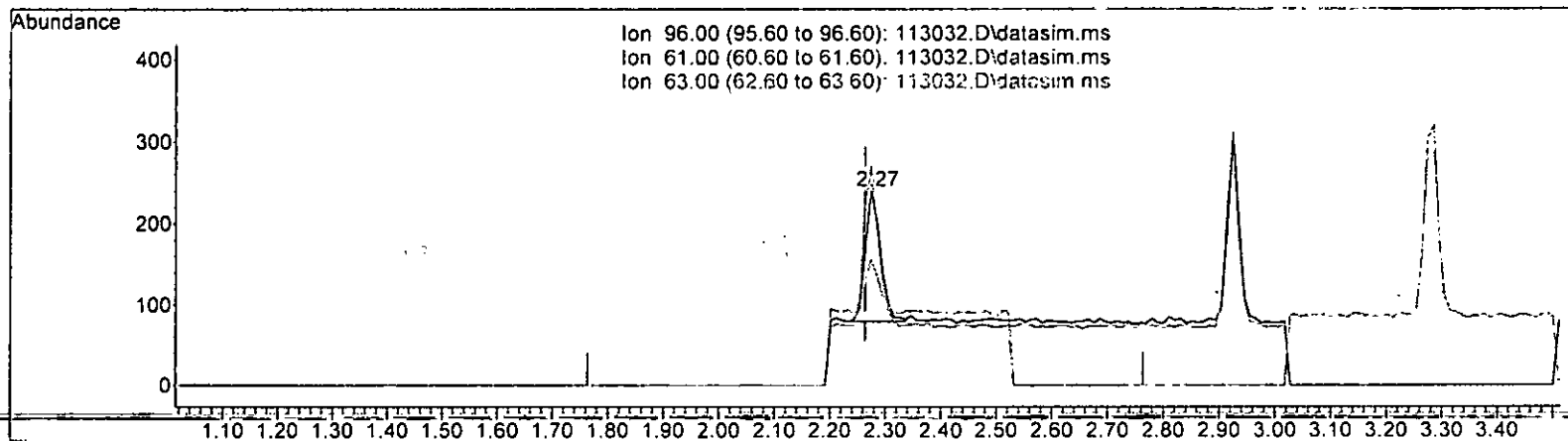
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	121.88
63.00	41.10	40.00
0.00	0.00	0.00

*m/z 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

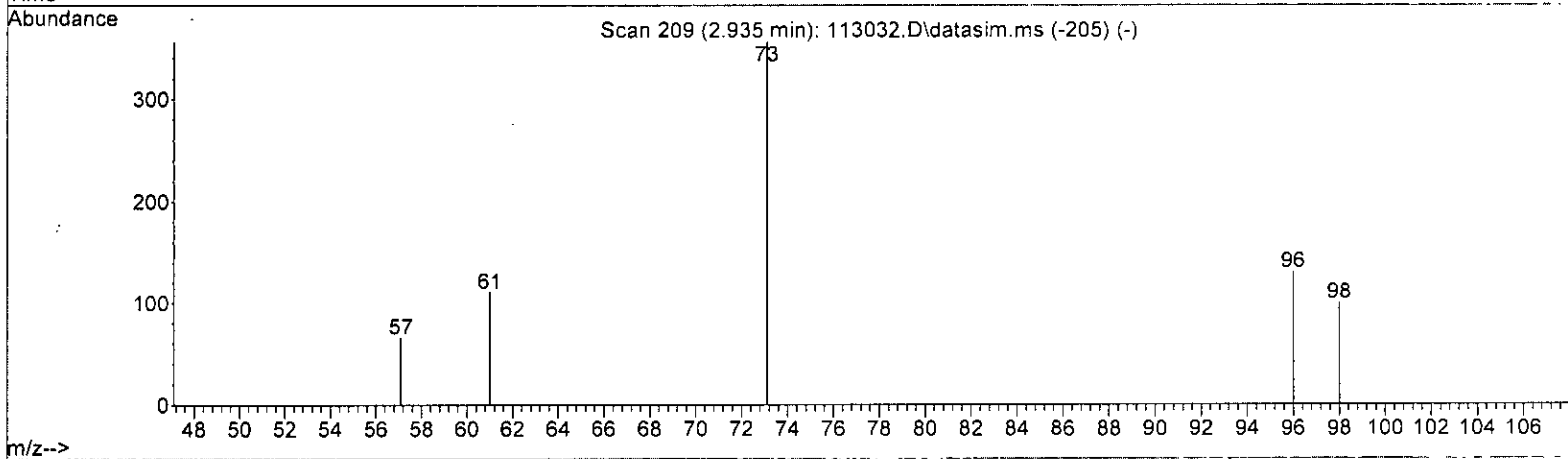
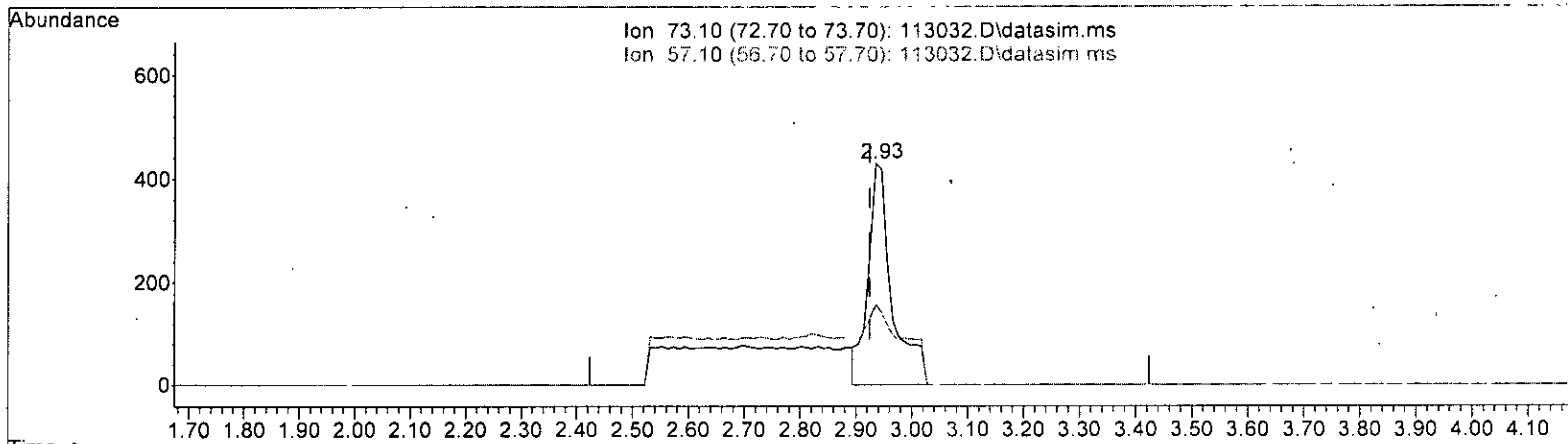
(12) 1,1-Dichloroethene (TMP) *m 12.1*  
 2.274min (+ 0.010) 0.089 ppb m  
 response 302

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	112.55
63.00	41.10	64.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.935min (+ 0.011) 0.156 ppb

response 1272

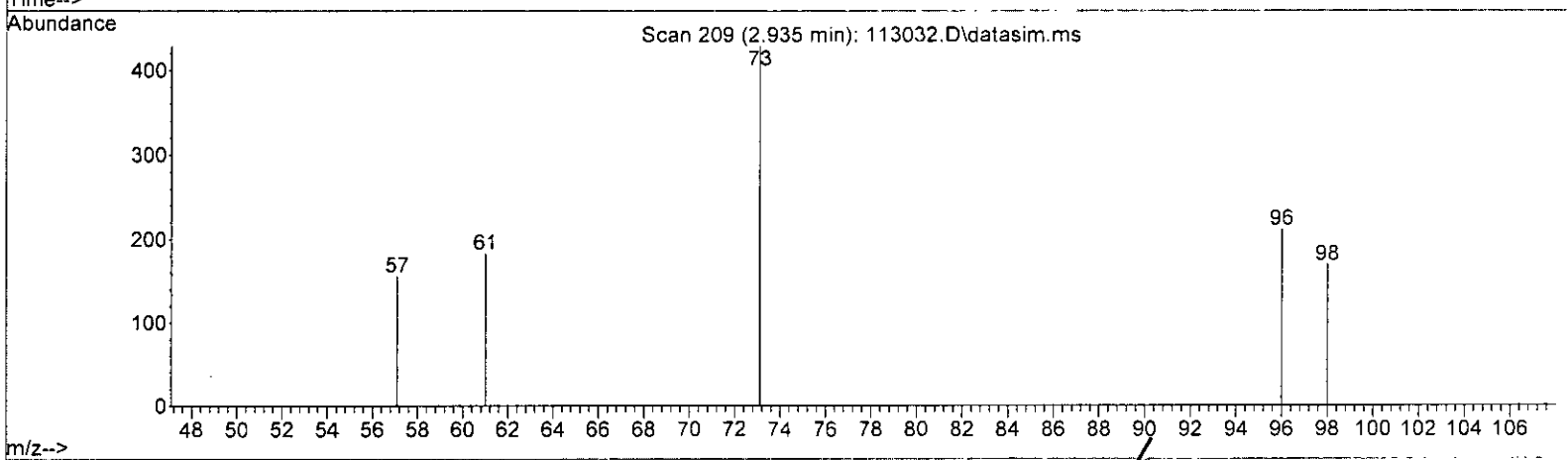
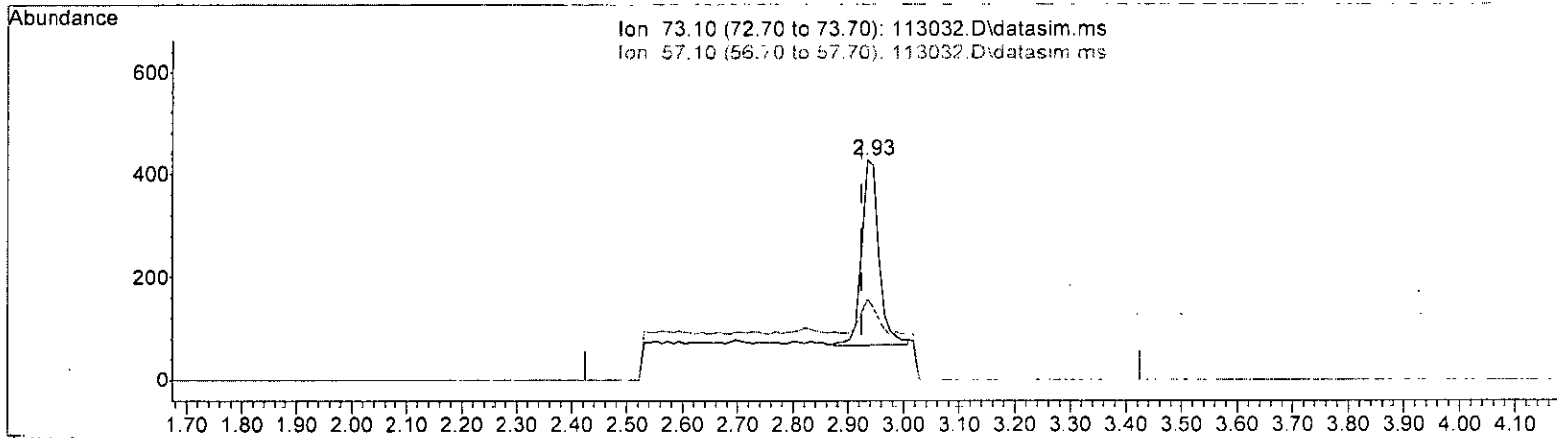
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	36.21
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms *✓*

(16) Methyl t-butyl ether (MTBE) (TMP) *M 12.1*

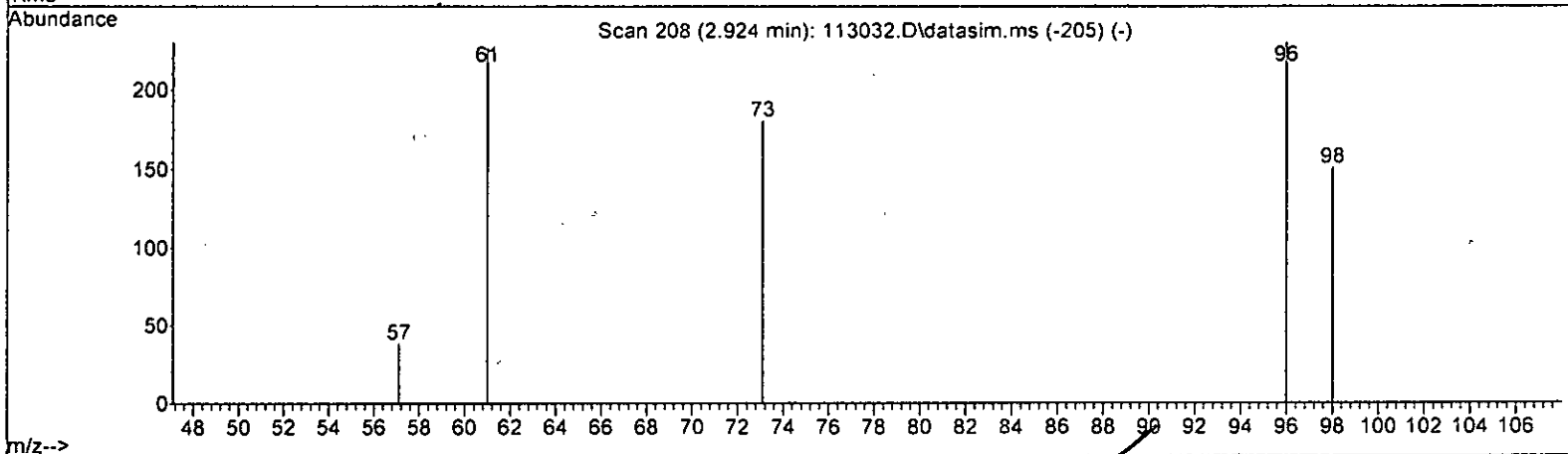
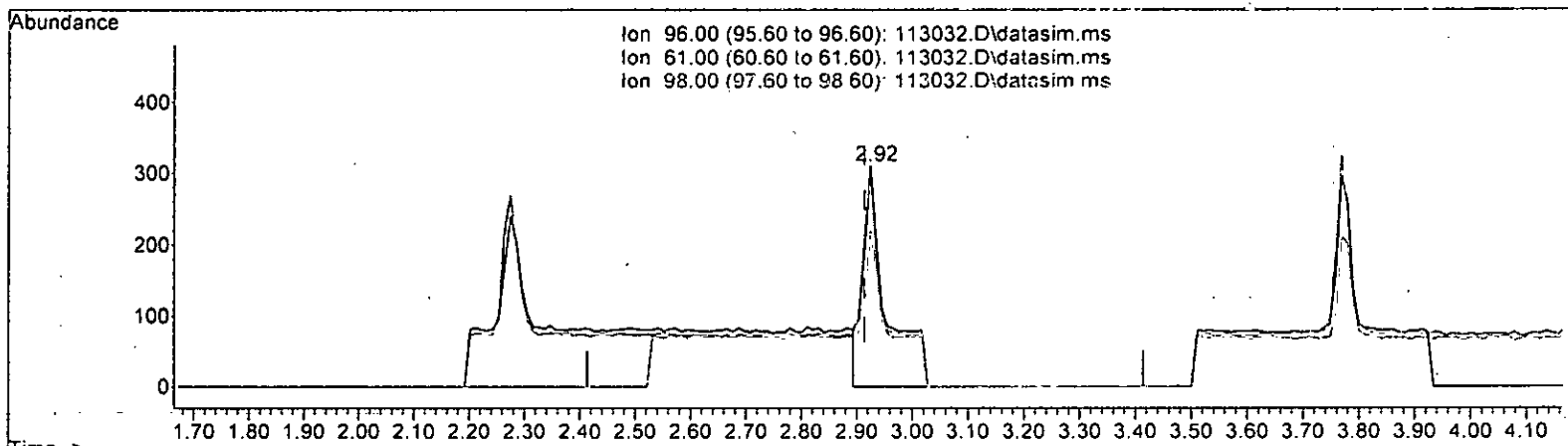
2.935min (+ 0.011) 0.095 ppb m

response	777
Ion	Exp% Act%
73.10	100.00 100.00
57.10	19.50 36.21
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

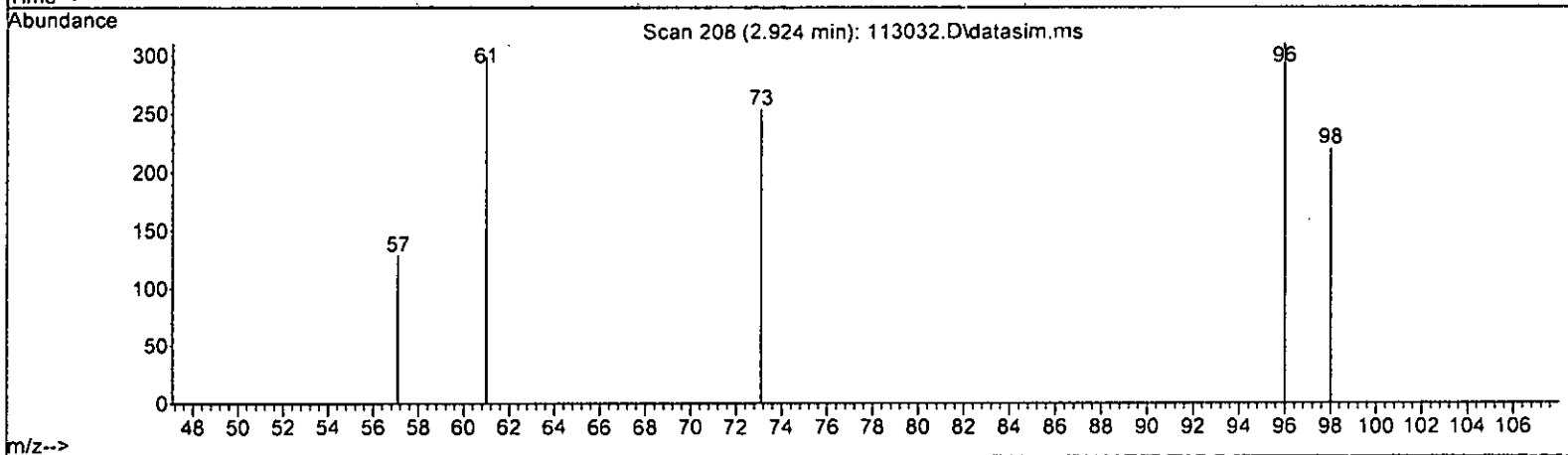
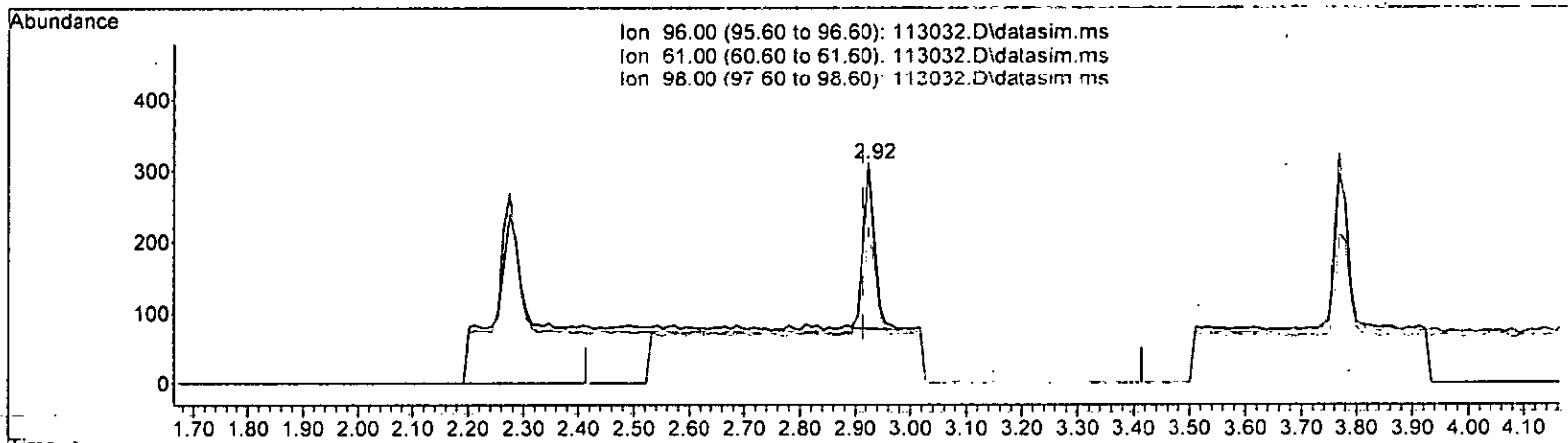
*m 121*

(17) trans-1,2-Dichloroethene (TMP)		
2.924min (+ 0.010) 0.241 ppb		
response	908	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	96.13
98.00	62.70	70.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 0.089 ppb m

response 335

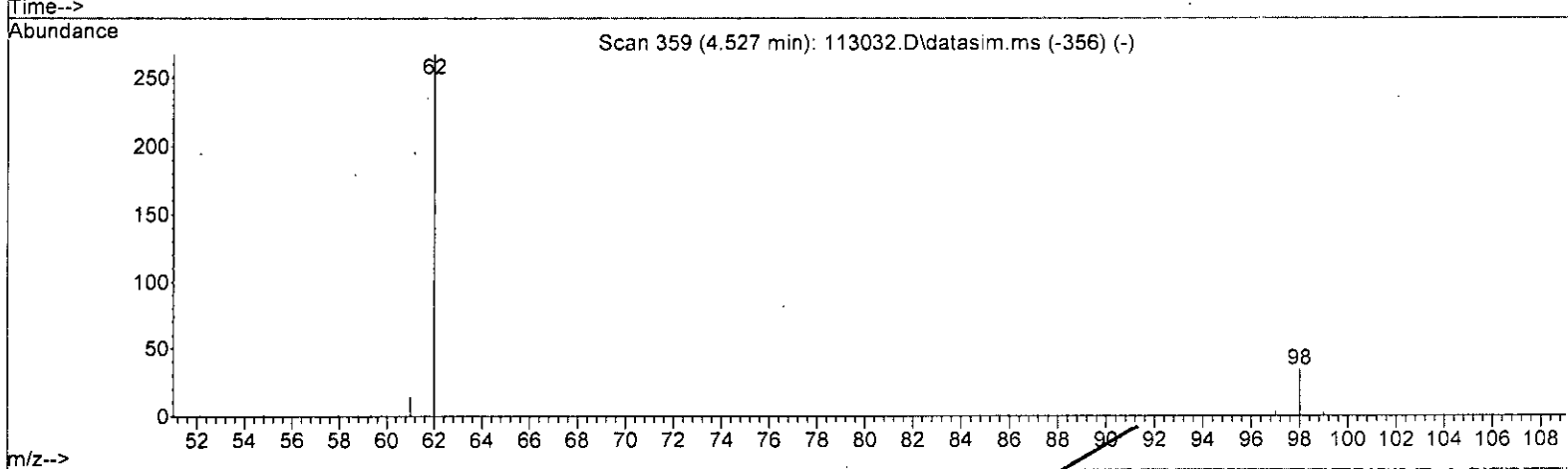
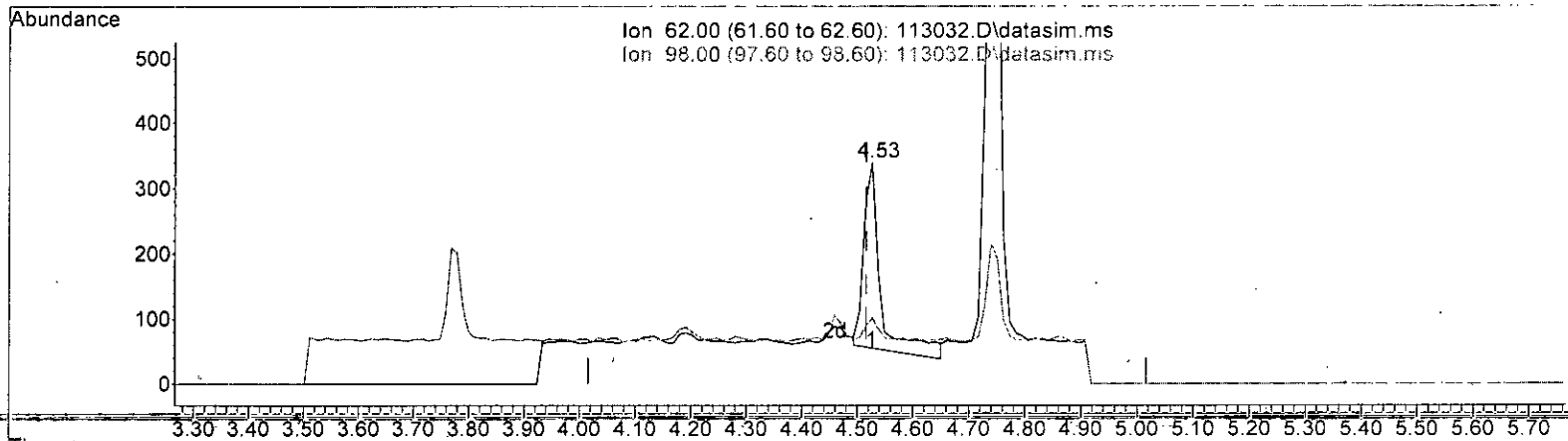
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	96.13
98.00	62.70	70.65
0.00	0.00	0.00

12.1  
LM

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(26) 1,2-Dichloroethane (EDC) (TMP)

4.527min (+ 0.011) 0.125 ppb

response 599

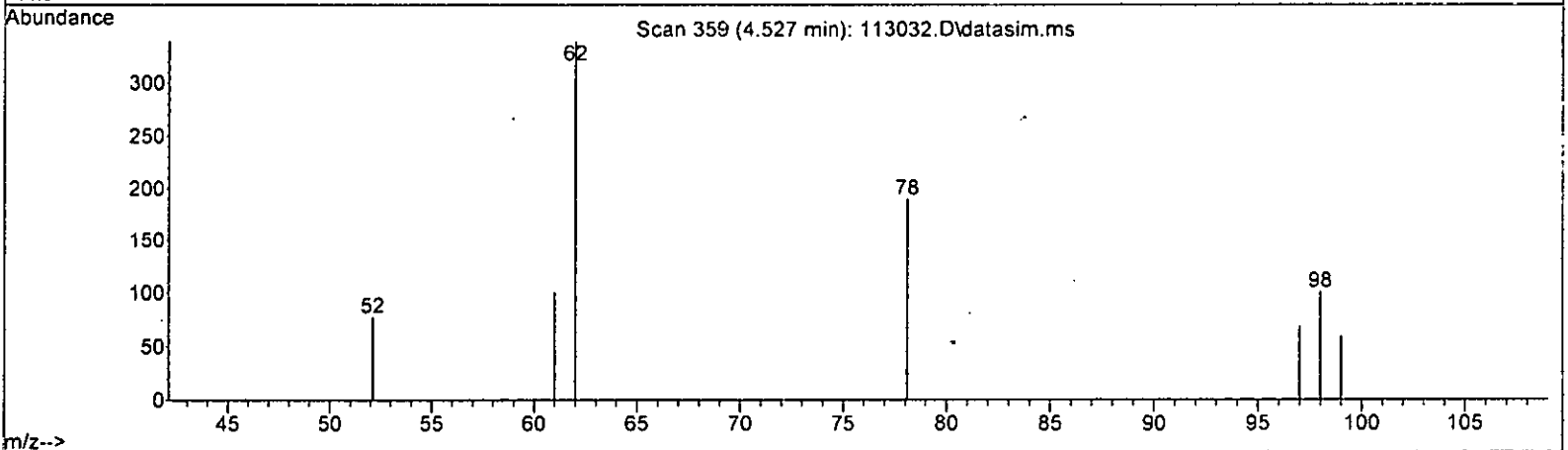
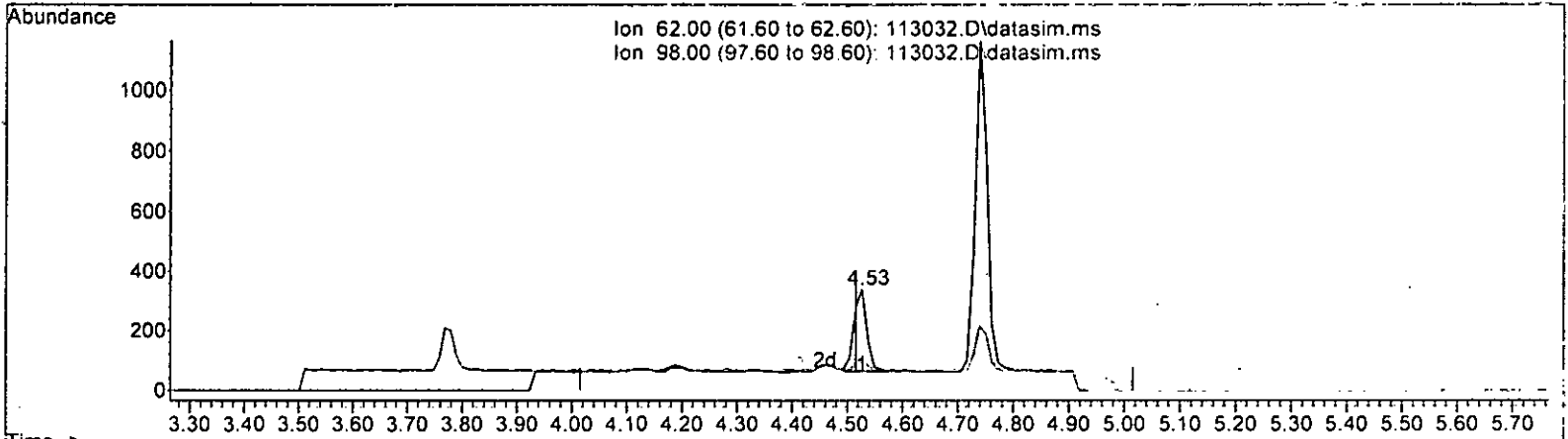
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	8.90	12.23
0.00	0.00	0.00
0.00	0.00	0.00

*m* 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(26) 1,2-Dichloroethane (EDC) (TMP) *m 12.1*

4.527min (+ 0.011) 0.088 ppb m

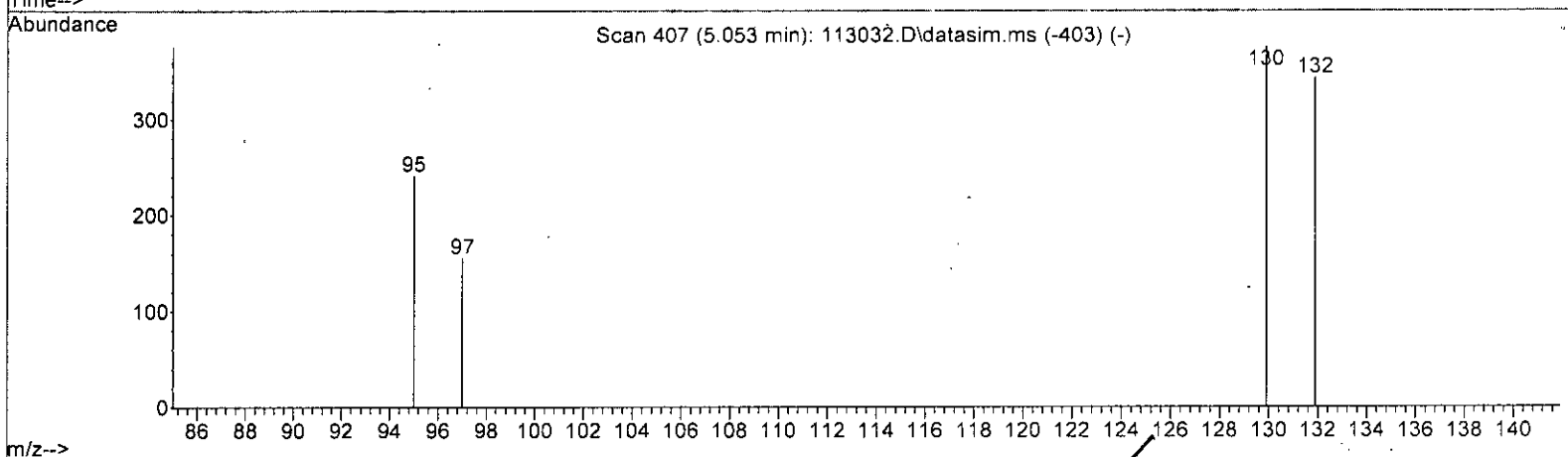
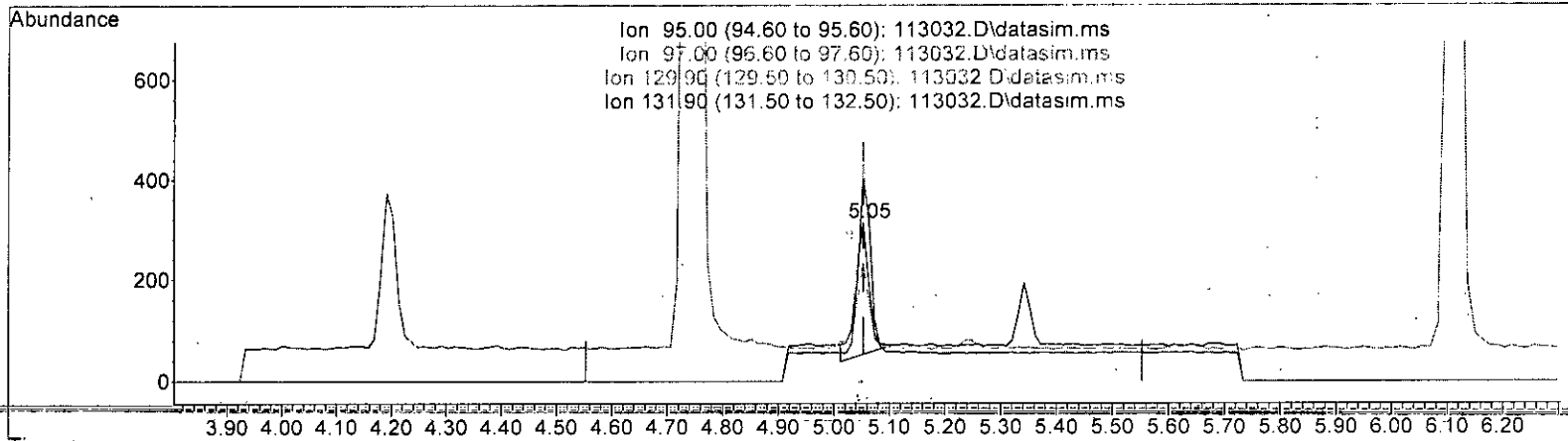
response	447	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	8.90	29.79
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

*m 12.1*

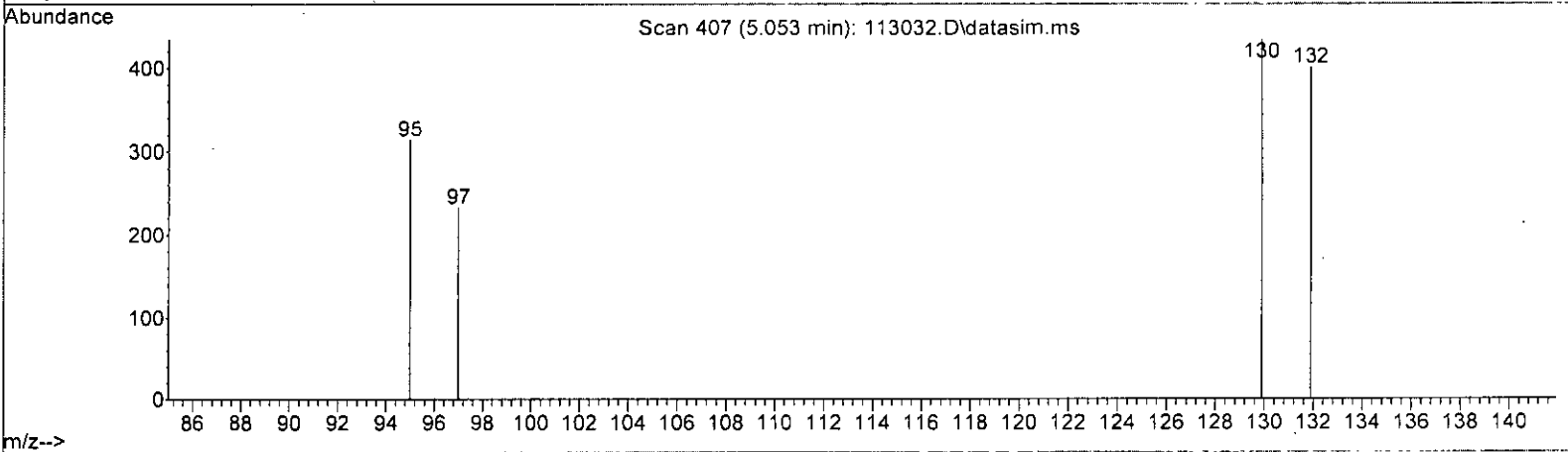
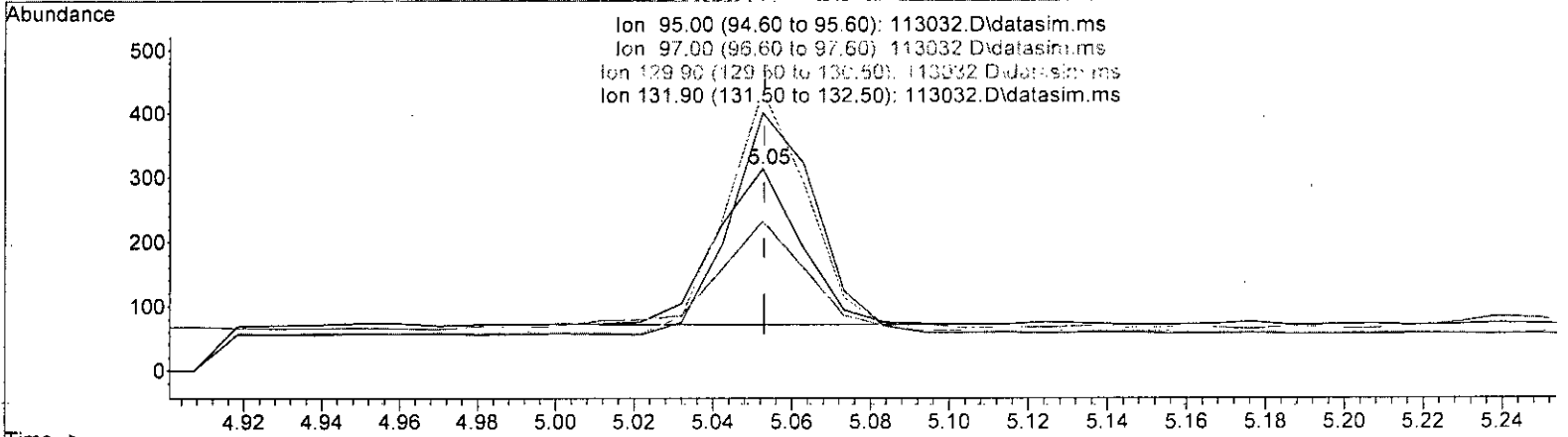
(32) Trichloroethene (TMP)  
 5.053min (-0.000) 0.107 ppb  
 response 448

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	68.60
129.90	161.00	155.79
131.90	160.10	142.15

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(32) Trichloroethene (TMP)

5.053min (-0.000) 0.087 ppb m

response 362

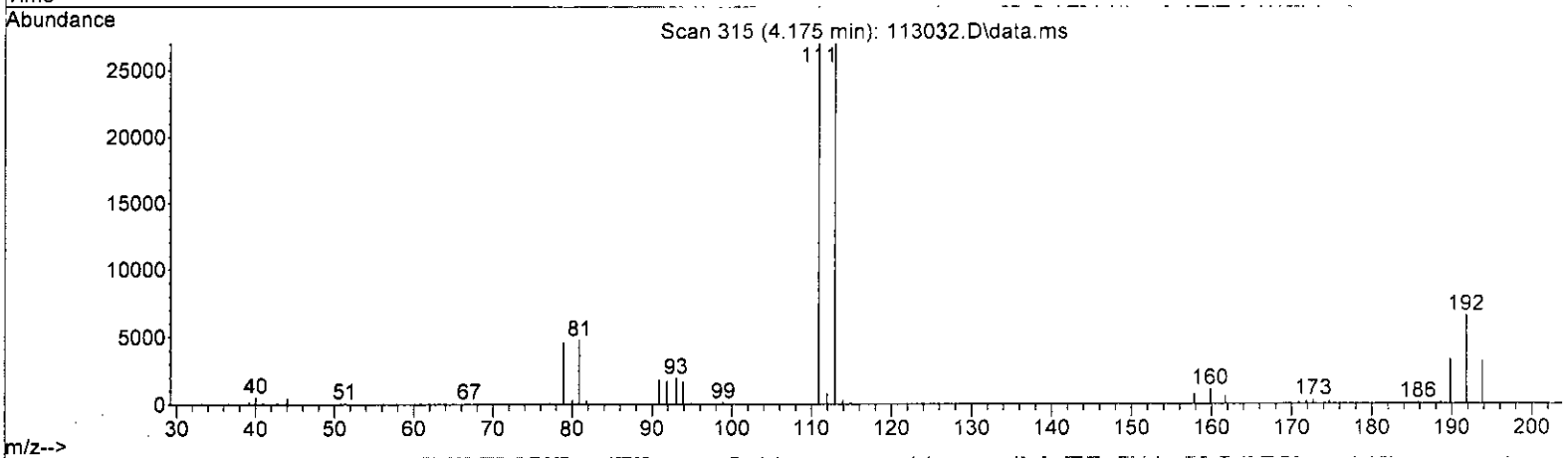
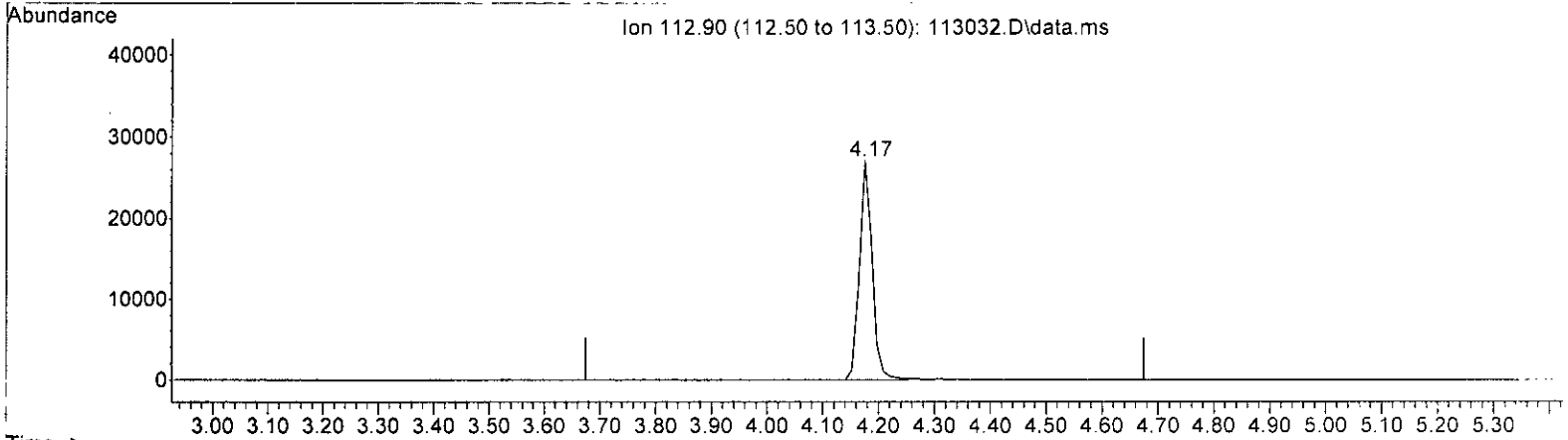
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	74.12
129.90	161.00	138.98
131.90	160.10	127.80#

M 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(3) Dibromofluoromethane (S)		
4.175min (-0.000) 9.771 ppb m		
response	42674	
Ion	Exp%	Act%
112.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*accidental  
 deletion  
 12.1  
 m*

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	137091	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	110964	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	69191	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	0.00	113	0d	0.000	ppb	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	0.00%#	
30) 1,2-Dichloroethane-d4	4.45	102	7645	9.340	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	93.40%	
35) Toluene-d8	6.11	98	114799	9.316	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	93.20%	
57) 4-Bromofluorobenzene	8.51	95	43095	10.278	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	102.80%	

*Handwritten notes:*  
 ← 9.771 ppb  
 97.71%  
 W  
 12.1

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.	d	
4) Dichlorodifluoromethane	0.00		0	N.D.	d	
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.35	62	469m	0.092	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.	d	
9) Trichlorofluoromethane	0.00		0	N.D.	d	
10) 2-Propanol	0.00		0	N.D.	d	
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.27	96	302m	0.089	ppb	
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
16] Methyl t-butyl ether (...)	2.93	73	777m	0.095	ppb	
17] trans-1,2-Dichloroethene	2.92	96	335m	0.089	ppb	
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d	
19] 1,1-Dichloroethane	3.28	63	424	0.091	ppb	98
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d	
21) 2,2-Dichloropropane	0.00		0	N.D.	d	
22] cis-1,2-Dichloroethene	3.77	96	363	0.089	ppb	88
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26] 1,2-Dichloroethane (EDC)	4.53	62	447m	0.088	ppb	
27] 1,1,1-Trichloroethane	4.19	97	566	0.088	ppb	95
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.	d	
31] Benzene	4.50	78	1068	0.085	ppb	95
32] Trichloroethene	5.05	95	362m	0.087	ppb	
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.	d	

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

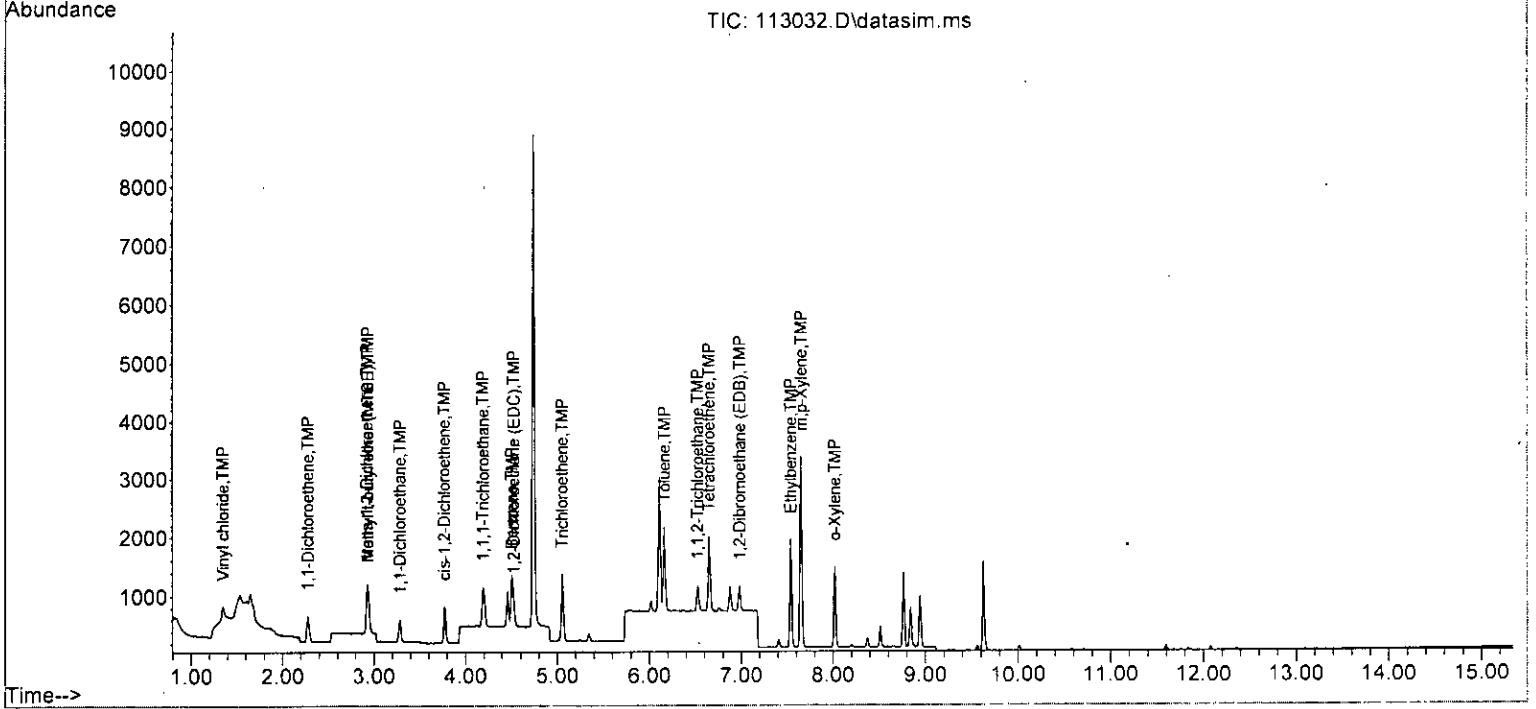
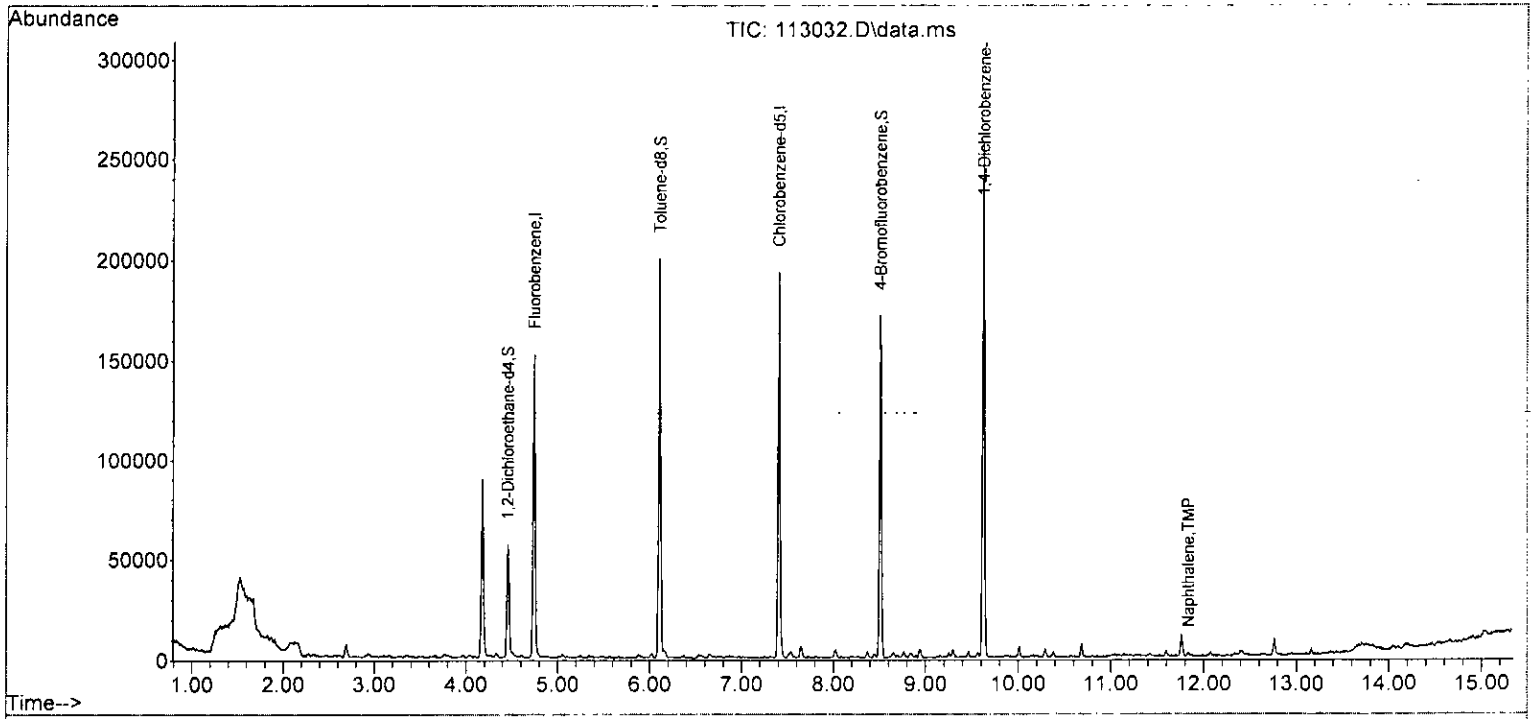
Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.16	92	732	0.088	ppb	97
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42] 1,1,2-Trichloroethane	6.53	83	232	0.099	ppb	93
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.65	164	474	0.092	ppb	95
46) Dibromochloromethane	0.00		0	N.D.	d	
47] 1,2-Dibromoethane (EDB)	6.98	107	340	0.084	ppb	89
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.54	91	1862	0.086	ppb	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.65	106	1754	0.170	ppb	99
52] o-Xylene	8.02	106	686	0.090	ppb	94
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	11.83	128	1526	0.114	ppb	93
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP	Ethanol	-1.000	0.000	0.0	0	-2.33#
3 S	Dibromofluoromethane	10.000	0.000	100.0#	0	-4.17#
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.100	0.092	8.0	100	0.02
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.83#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-2.33#
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.100	0.089	11.0	97	0.01
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.16#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.100	0.095	5.0	105	0.01
17 TMP	trans-1,2-Dichloroethene	0.100	0.089	11.0	96	0.01
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP	1,1-Dichloroethane	0.100	0.091	9.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP	2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP	cis-1,2-Dichloroethene	0.100	0.089	11.0	100	0.00
23 TMP	Chloroform	-1.000	0.000	0.0	0	-4.04#
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.61#
26 TMP	1,2-Dichloroethane (EDC)	0.100	0.088	12.0	101	0.01
27 TMP	1,1,1-Trichloroethane	0.100	0.088	12.0	100	0.00
28 TMP	1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.33#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.33#
30 S	1,2-Dichloroethane-d4	10.000	9.340	6.6	100	0.00
31 TMP	Benzene	0.100	0.085	15.0	100	0.00
32 TMP	Trichloroethene	0.100	0.087	13.0	100	0.00
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.24#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.48#
35 S	Toluene-d8	10.000	9.316	6.8	100	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.88#
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.100	0.088	12.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP	1,1,2-Trichloroethane	0.100	0.099	1.0	100	0.00
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45 TMP Tetrachloroethene	0.100	0.092	8.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.100	0.084	16.0	100	0.01
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49 TMP Ethylbenzene	0.100	0.086	14.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.51#
51 TMP m,p-Xylene	0.200	0.170	15.0	100	0.00
52 TMP o-Xylene	0.100	0.090	10.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.37#
55 TMP Bromoform	-1.000	0.000	0.0	0	8.20#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.278	-2.8	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.77#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.94#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.66#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.70#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.95#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.30#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.46#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.56#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.01#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75 TMP Naphthalene	0.100	0.114	-14.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.08#

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	0#	-2.33#
3 S Dibromofluoromethane	0.319	0.000	100.0#	0#	-4.17#
4 TMP Dichlorodifluoromethane	0.582	0.000#	100.0#	0#	-1.11#
5 TMP Chloromethane	0.386	0.000#	100.0#	0#	-1.25#
6 TMP Vinyl chloride	0.373	0.342	8.3	100	0.02
7 TMP Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.200	0.000#	100.0#	0#	-1.64#
9 TMP Trichlorofluoromethane	1.015	0.000#	100.0#	0#	-1.83#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.33#
11 TMP Acetone	0.022	0.000#	100.0#	0#	-2.32#
12 TMP 1,1-Dichloroethene	0.248	0.220	11.3	97	0.01
13 TMP Hexane	0.244	0.000#	100.0#	0#	-3.16#
14 TMP Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.022	0.000#	100.0#	0#	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.567	4.9	105	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.244	10.9	96	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.000#	100.0#	0#	-3.34#
19 TMP 1,1-Dichloroethane	0.341	0.309	9.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.000#	100.0#	0#	-3.65#
21 TMP 2,2-Dichloropropane	0.297	0.000#	100.0#	0#	-3.76#
22 TMP cis-1,2-Dichloroethene	0.296	0.265	10.5	100	0.00
23 TMP Chloroform	0.441	0.000#	100.0#	0#	-4.04#
24 TMP 2-Butanone (MEK)	0.102	0.000#	100.0#	0#	-3.78#
25 TMP t-Amyl methyl ether (TAME)	0.551	0.000#	100.0#	0#	-4.61#
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.326	2.4	101	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.413	11.8	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.000#	100.0#	0#	-4.33#
29 TMP Carbon tetrachloride	0.497	0.000#	100.0#	0#	-4.33#
30 S 1,2-Dichloroethane-d4	0.060	0.056	6.7	100	0.00
31 TMP Benzene	0.849	0.779	8.2	100	0.00
32 TMP Trichloroethene	0.304	0.264	13.2	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.000#	100.0#	0#	-5.24#
34 TMP Bromodichloromethane	0.316	0.000#	100.0#	0#	-5.48#
35 S Toluene-d8	0.899	0.837	6.9	100	0.00
36 TMP Dibromomethane	0.173	0.000#	100.0#	0#	-5.34#
37 TMP 4-Methyl-2-pentanone	0.040	0.000#	100.0#	0#	-6.01#
38 TMP cis-1,3-Dichloropropene	0.329	0.000#	100.0#	0#	-5.88#
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.660	8.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.000#	100.0#	0#	-6.36#
42 TMP 1,1,2-Trichloroethane	0.204	0.209	-2.5	100	0.00
43 TMP 2-Hexanone	0.142	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.443	0.427	3.6	100	0.00
46 TMP Dibromochloromethane	0.425	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.306	8.7	100	0.01
48 TMP Chlorobenzene	0.943	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.560	1.678	-7.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.000#	100.0#	0#	-7.51#
51 TMP m,p-Xylene	0.718	0.790	-10.0	100	0.00
52 TMP o-Xylene	0.611	0.618	-1.1	100	0.00
53 TMP Styrene	0.848	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.353	0.000#	100.0#	0#	-8.37#
55 TMP Bromoform	0.302	0.000#	100.0#	0#	-8.20#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.623	-2.8	100	0.00
58 TMP n-Propylbenzene	2.257	0.000#	100.0#	0#	-8.77#
59 TMP Bromobenzene	0.821	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	1.836	0.000#	100.0#	0#	-8.94#
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.000#	100.0#	0#	-8.66#
62 TMP 1,2,3-Trichloropropane	0.337	0.000#	100.0#	0#	-8.70#
63 TMP 2-Chlorotoluene	1.282	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	1.552	0.000#	100.0#	0#	-8.95#
65 TMP tert-Butylbenzene	1.946	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	1.975	0.000#	100.0#	0#	-9.30#
67 TMP sec-Butylbenzene	2.396	0.000#	100.0#	0#	-9.46#
68 TMP p-Isopropyltoluene	2.400	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.476	0.000#	100.0#	0#	-9.56#
70 TMP 1,4-Dichlorobenzene	1.456	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.422	0.000#	100.0#	0#	-10.01#
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.997	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.588	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	1.938	2.205	-13.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.000#	100.0#	0#	-12.08#

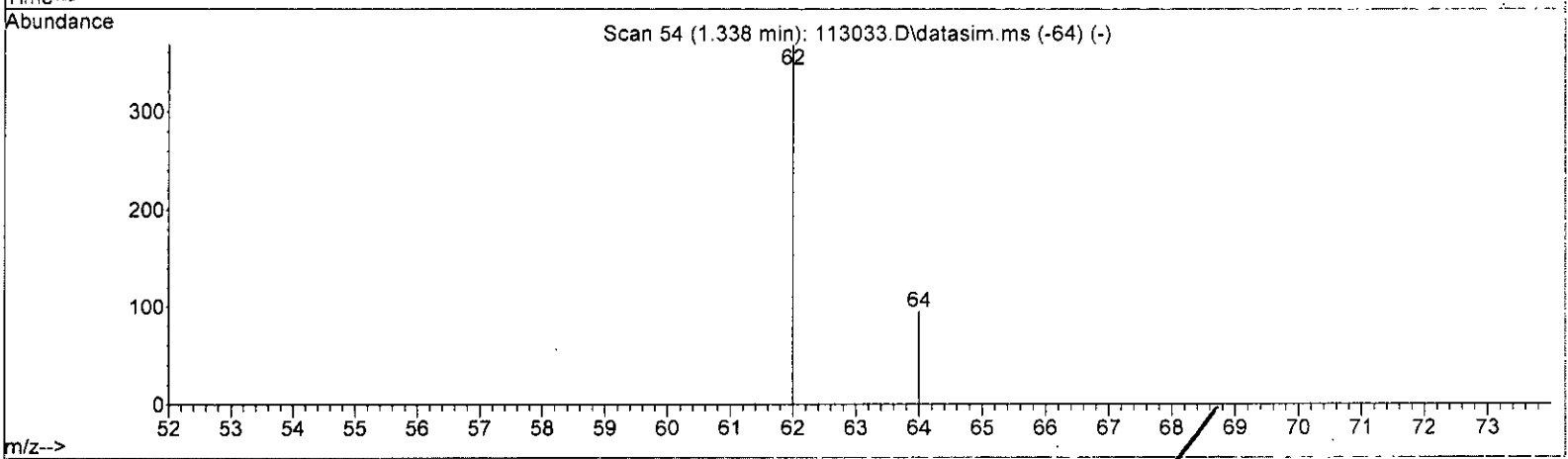
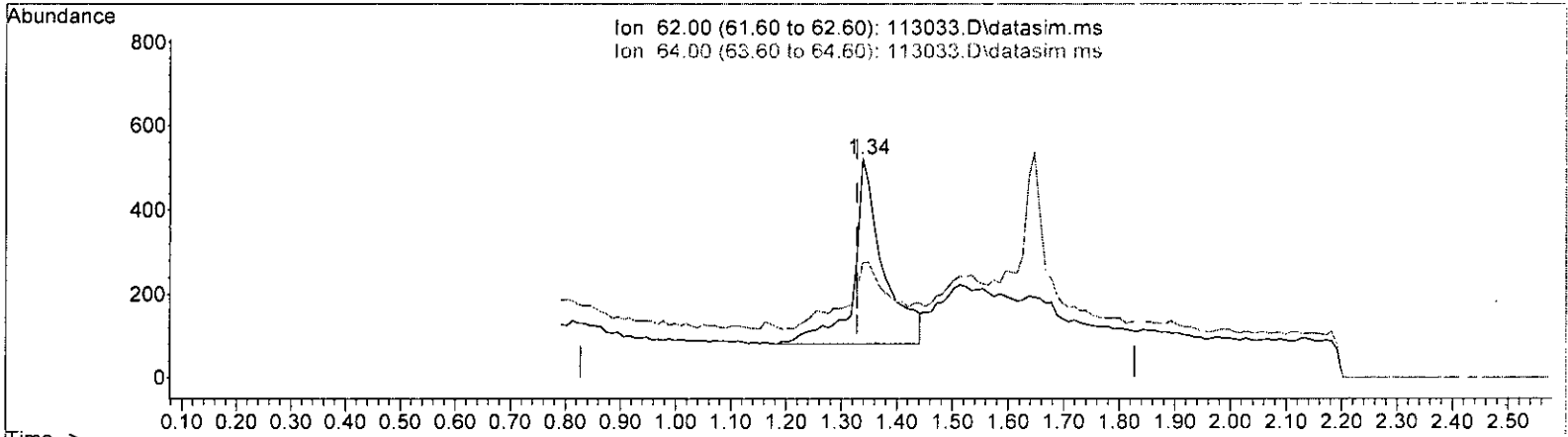
(#) = Out of Range

SPCC's out = 50 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 0.327 ppb

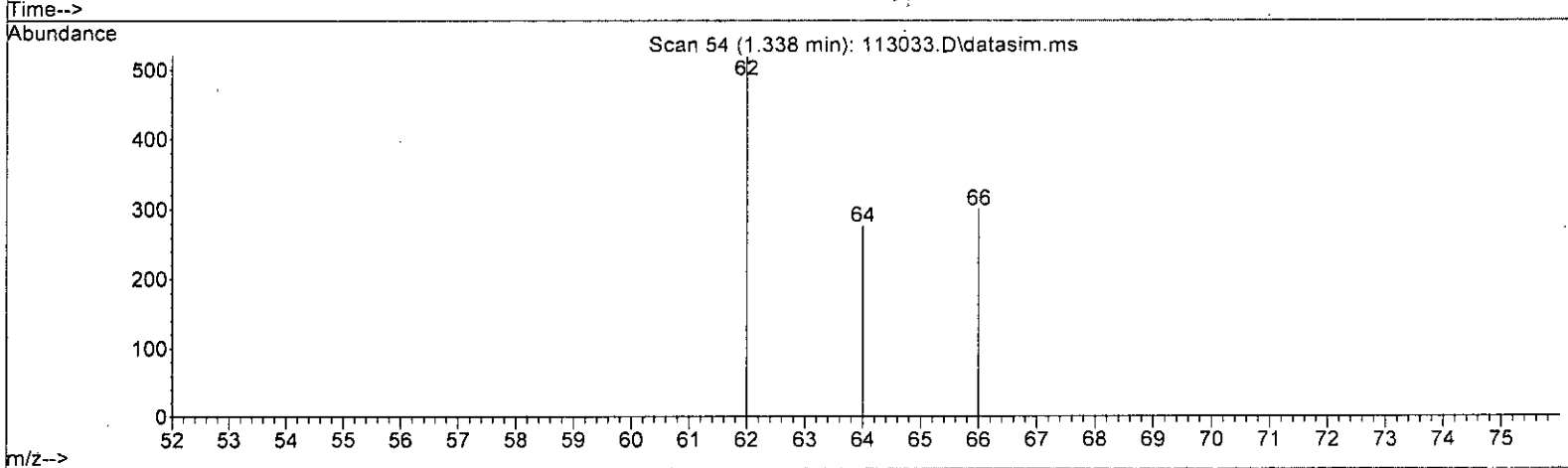
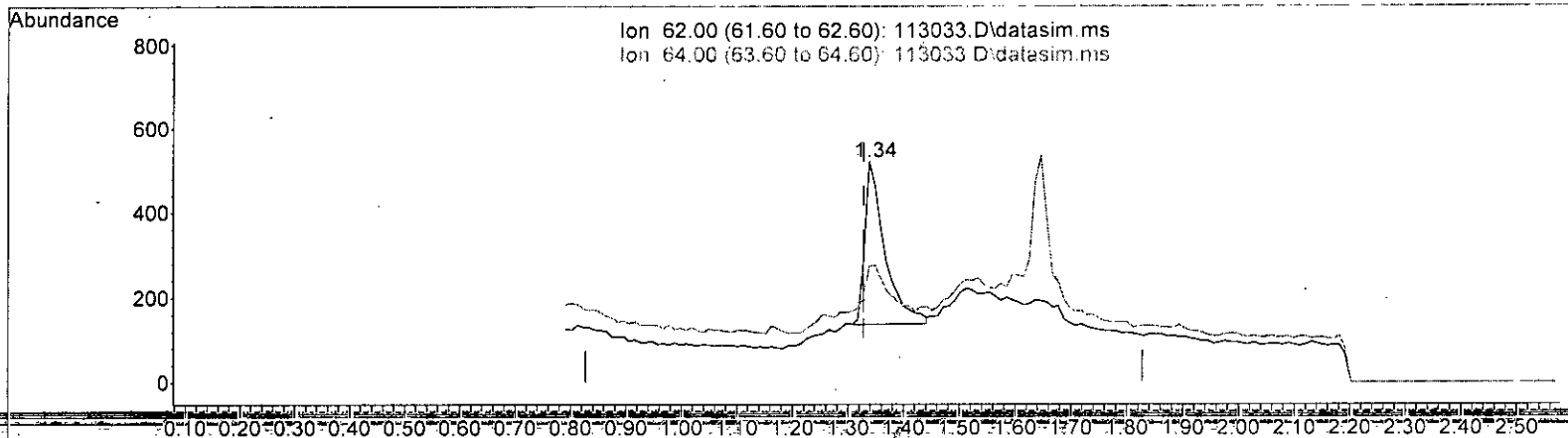
response	1657	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	35.00
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 0.190 ppb m

response 961

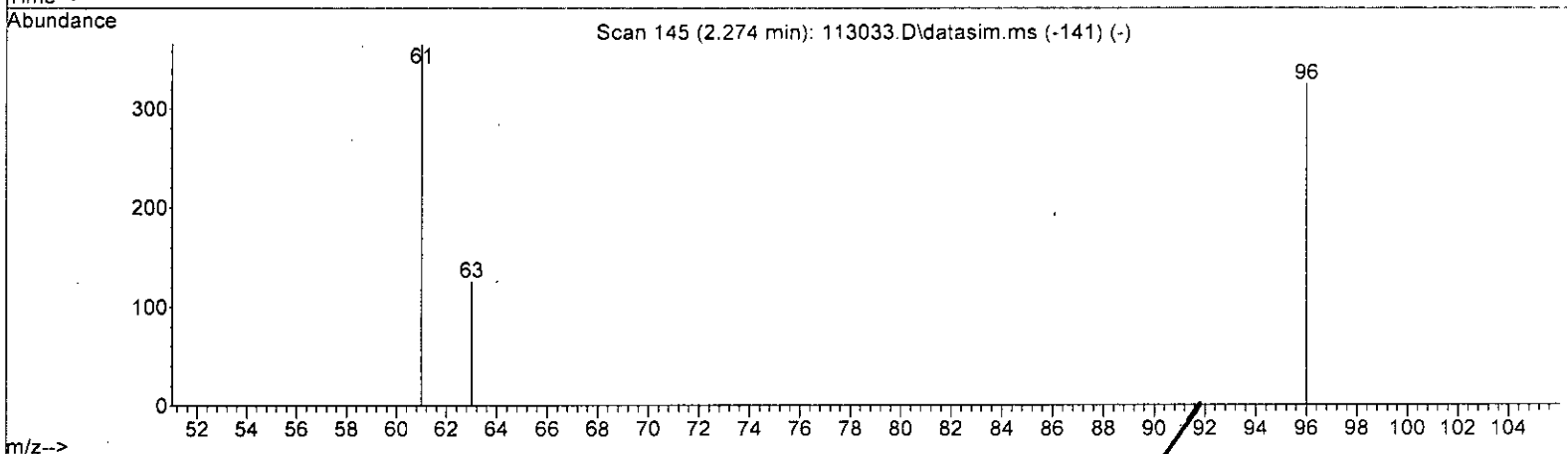
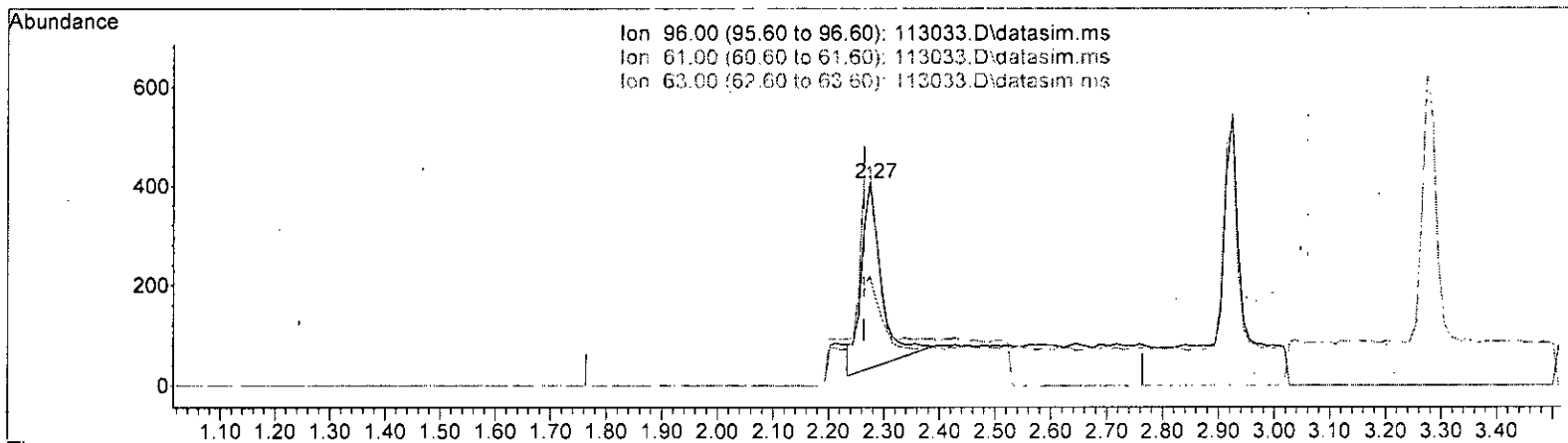
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	52.69
0.00	0.00	0.00
0.00	0.00	0.00

LM 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.274min (+ 0.010) 0.279 ppb

response 938

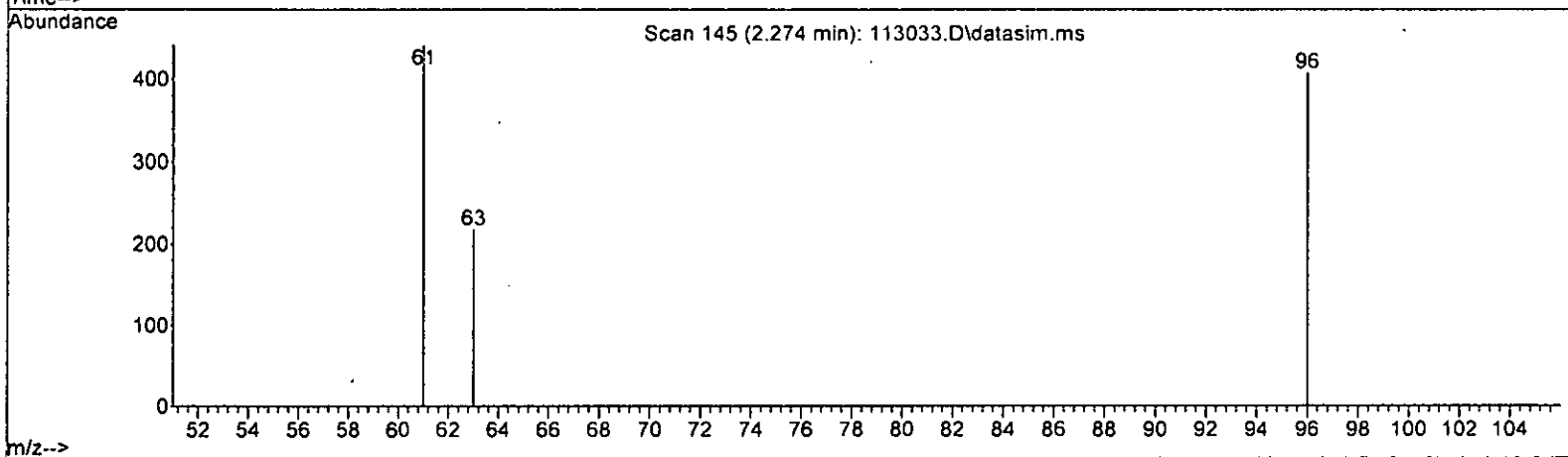
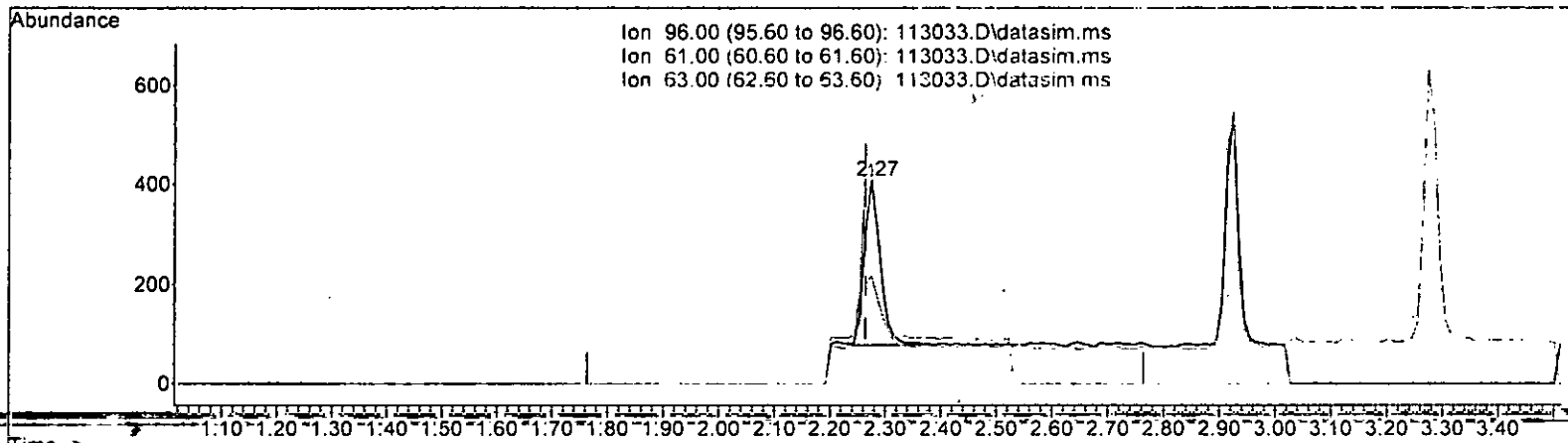
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	111.82
63.00	41.10	37.88
0.00	0.00	0.00

M/2.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(12) 1,1-Dichloroethene (TMP) *m 12.1*

2.274min (+ 0.010) 0.198 ppb m

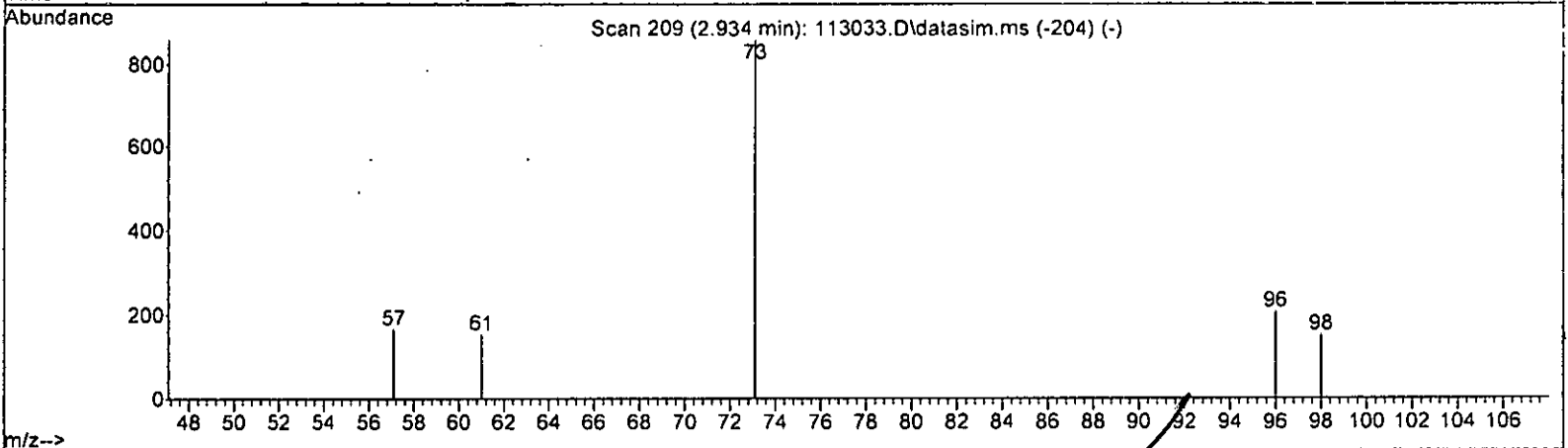
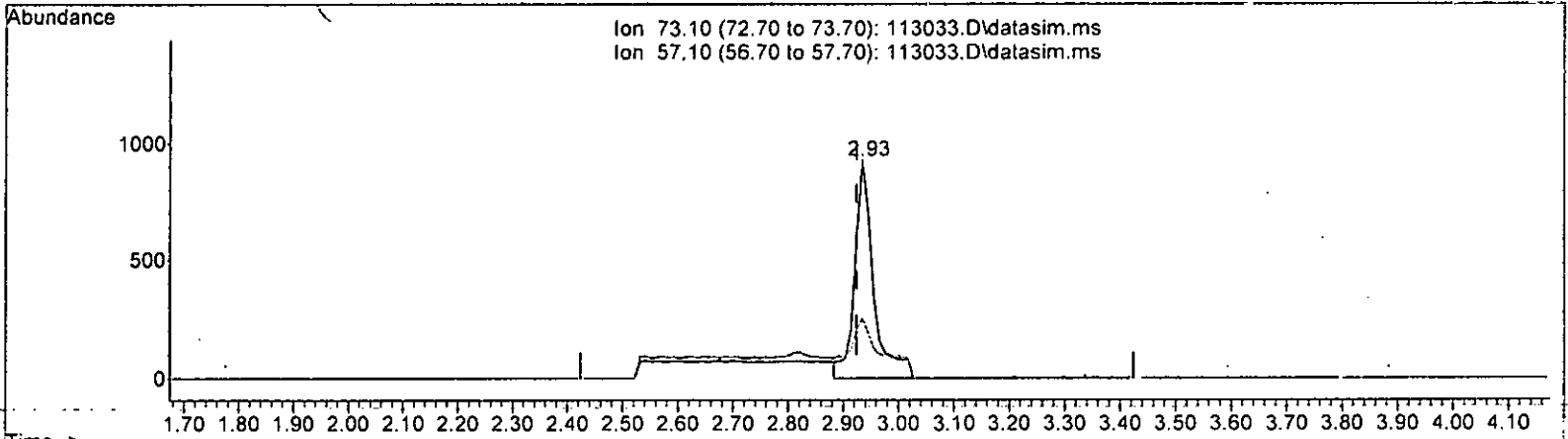
response 667

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	108.35
63.00	41.10	53.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.934min (+ 0.010) 0.268 ppb

response 2170

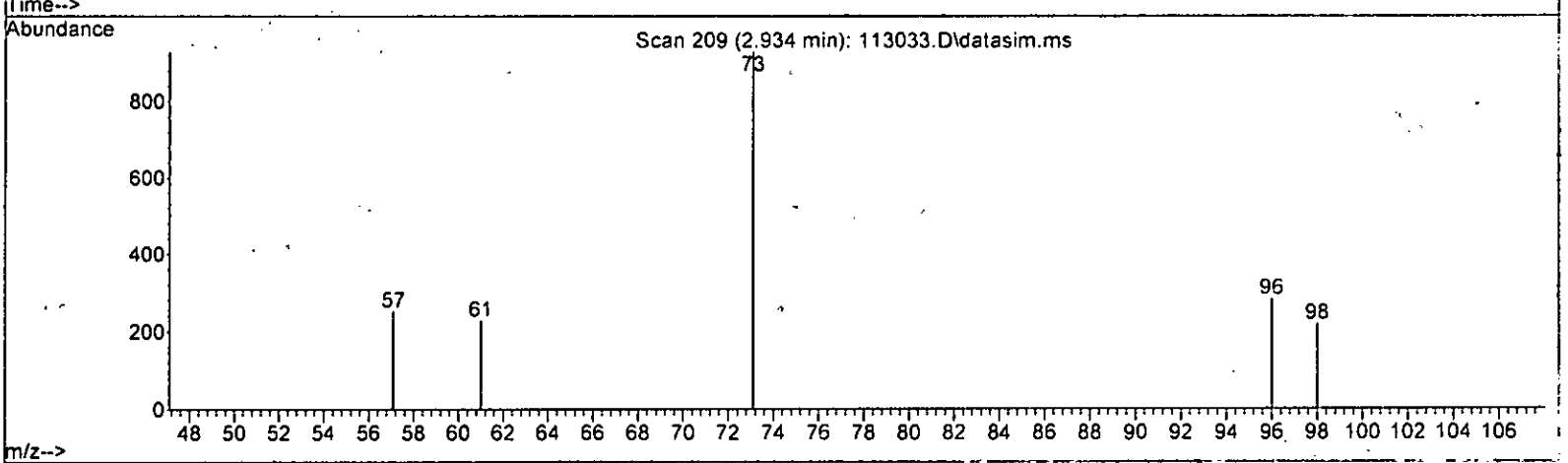
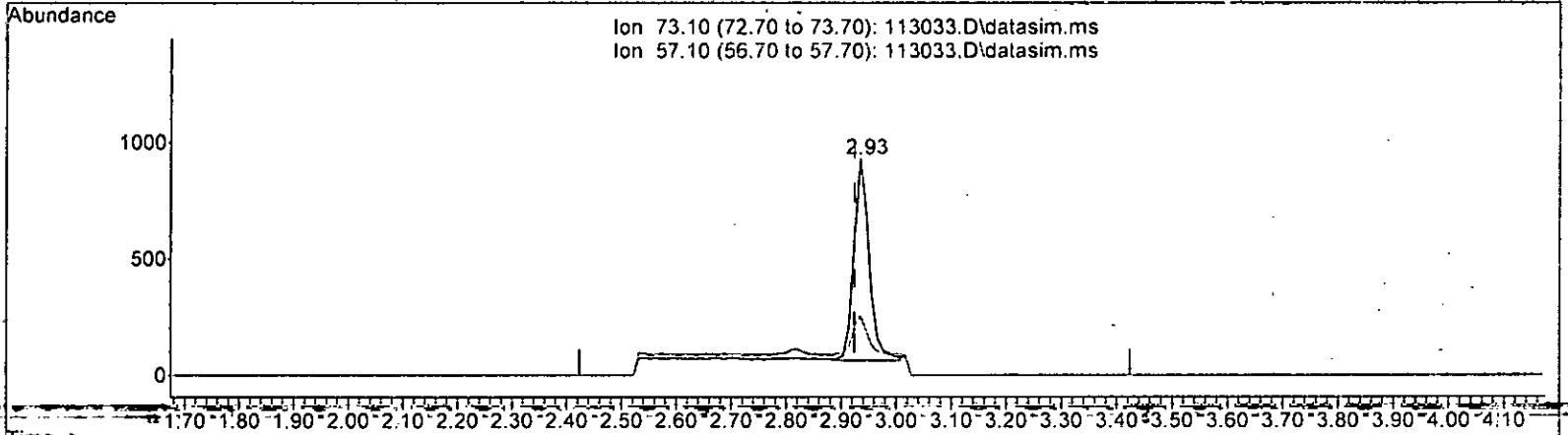
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	27.08
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.934min (+ 0.010) 0.204 ppb m

response 1652

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	27.08
0.00	0.00	0.00
0.00	0.00	0.00

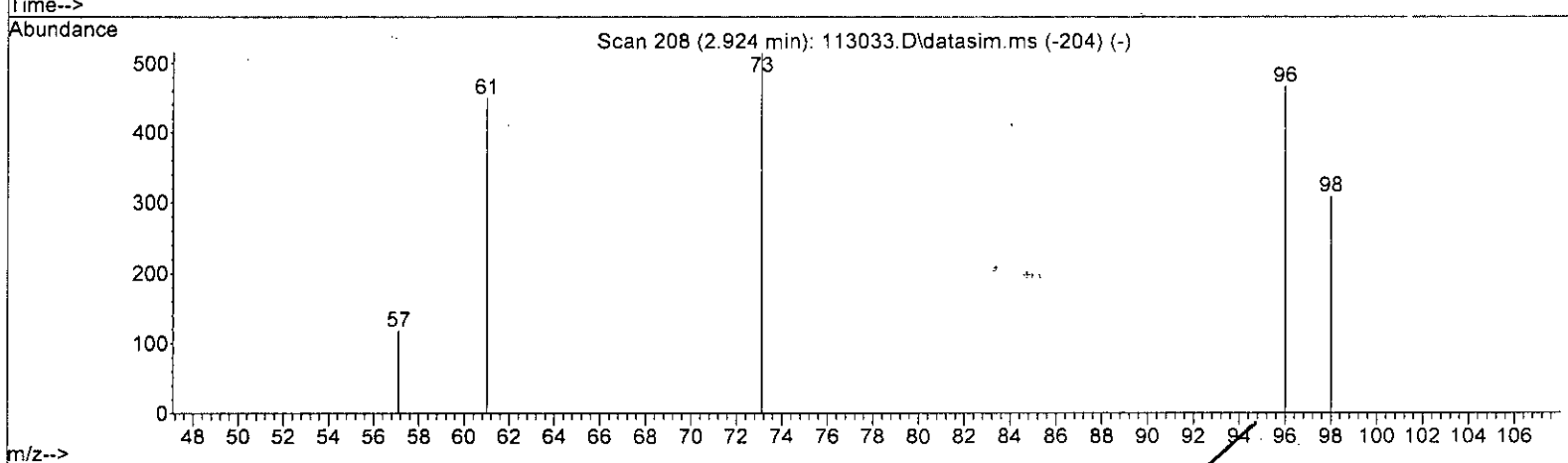
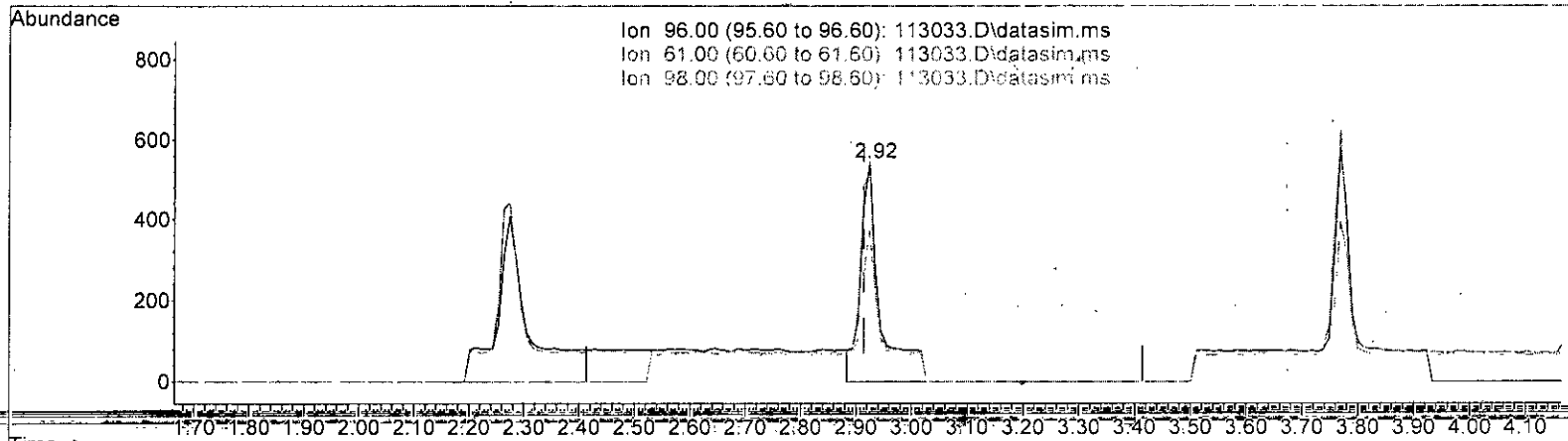
m/2.1



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 0.362 ppb

response 1350

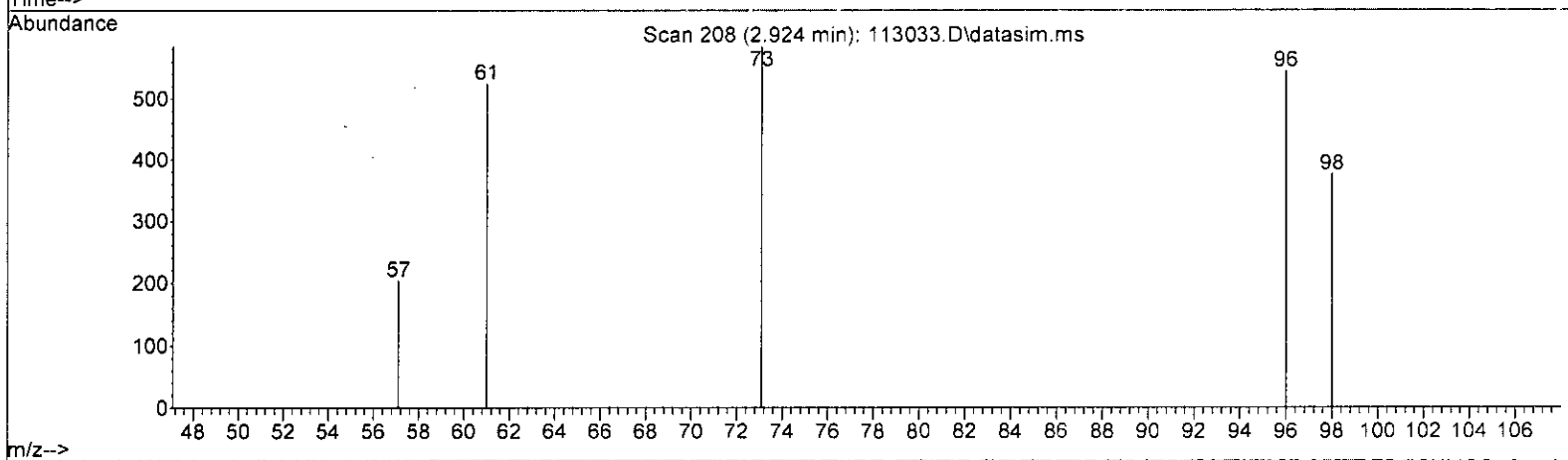
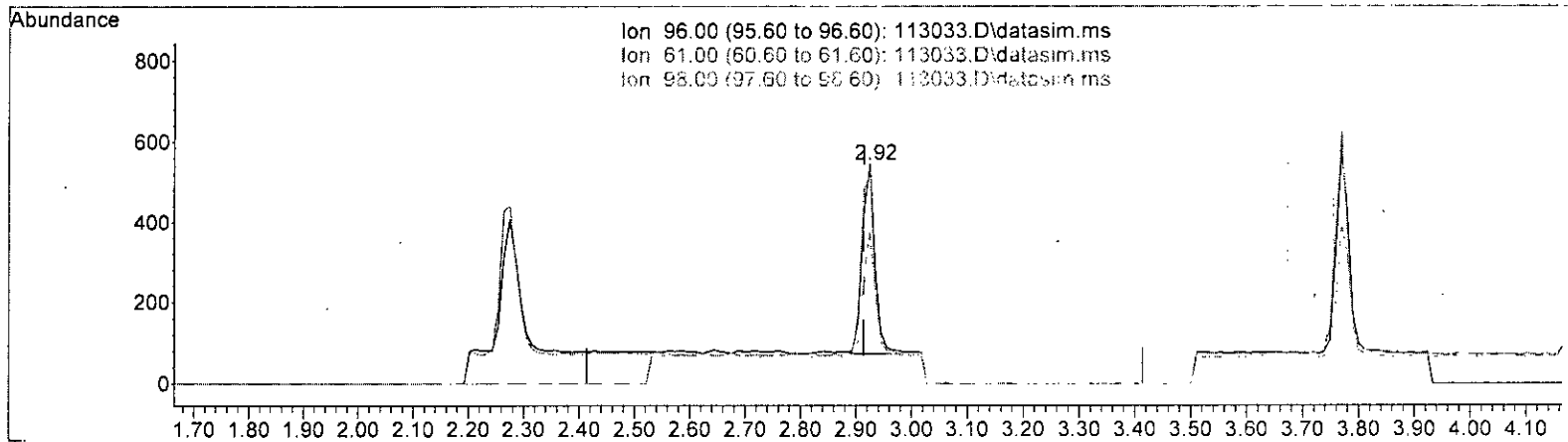
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	96.32
98.00	62.70	69.12
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *M 12.1*

2.924min (+ 0.010) 0.201 ppb m

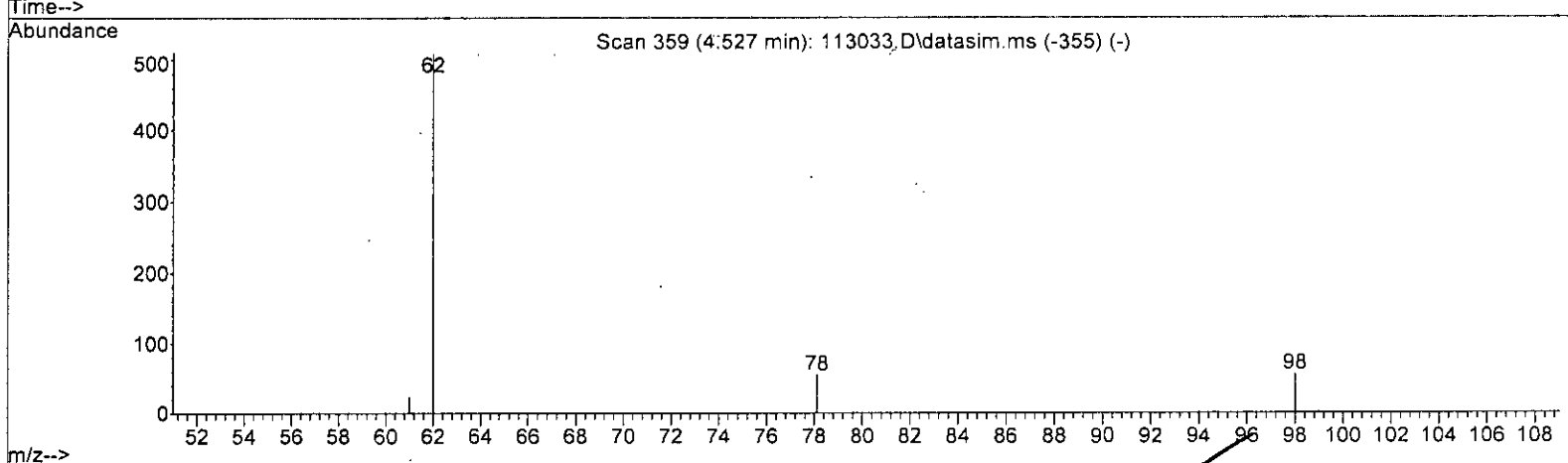
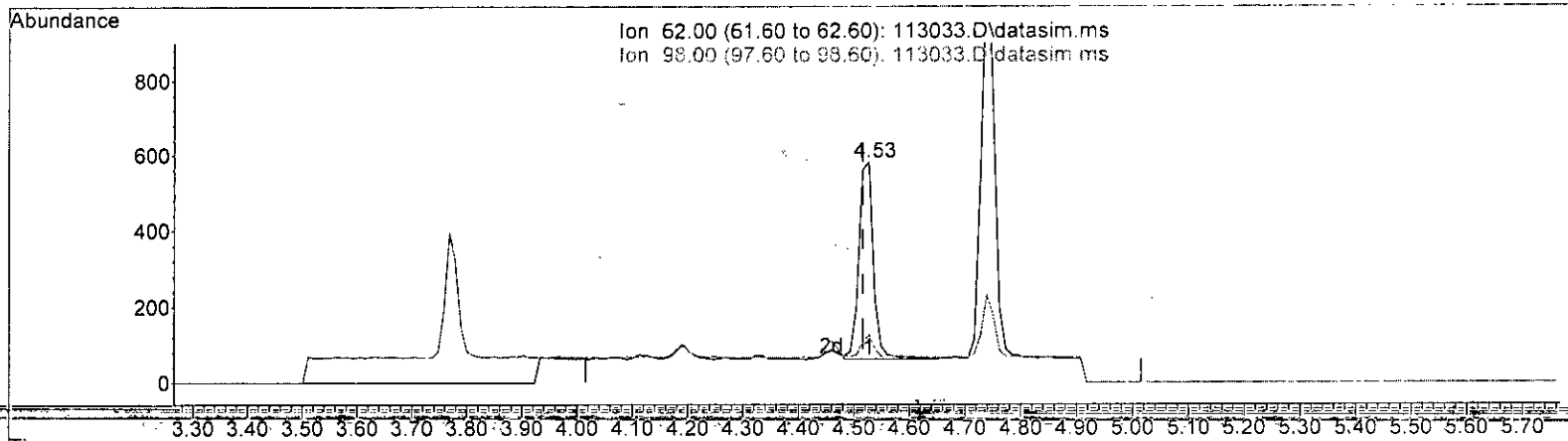
response 750

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	96.32
98.00	62.70	69.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(26) 1,2-Dichloroethane (EDC) (TMP)

4.527min (+ 0.011) 0.210 ppb

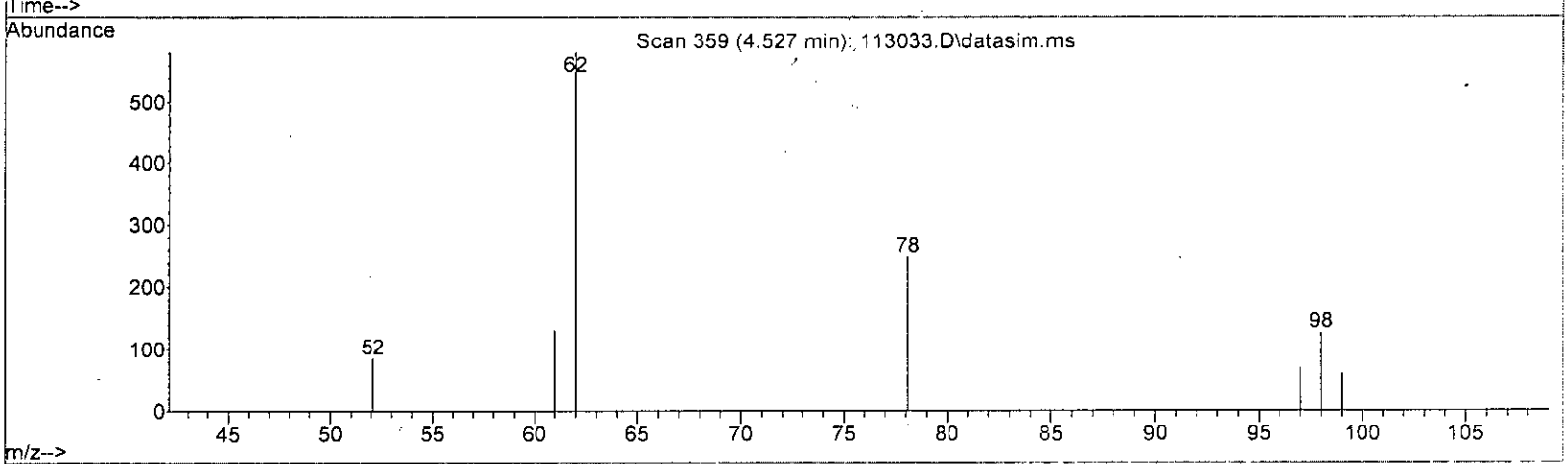
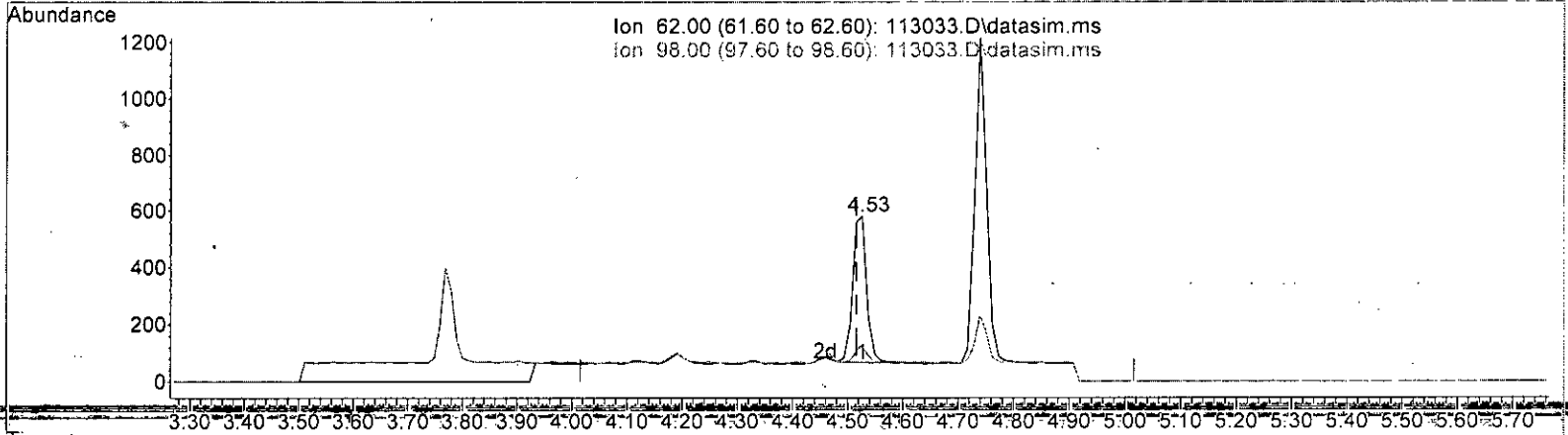
response	945	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	8.90	10.79
0.00	0.00	0.00
0.00	0.00	0.00

*MR.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms *M 12.1*

(26) 1,2-Dichloroethane (EDC) (TMP)

4.527min (+ 0.011) 0.199 ppb m

response	901
Ion	Exp% Act%
62.00	100.00 100.00
98.00	8.90 21.51
0.00	0.00 0.00
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.75	96	135773	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	114155	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	70028	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	42915	9.922	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.20%		
30) 1,2-Dichloroethane-d4	4.45	102	7934	9.787	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery	=	97.90%		
35) Toluene-d8	6.11	98	118723	9.728	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery	=	97.30%		
57) 4-Bromofluorobenzene	8.51	95	43122	10.162	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery	=	101.60%		
Target Compounds							
							Qvalue
2) Ethanol	2.38	45	46	No Calib			
4) Dichlorodifluoromethane	1.12	85	1626	0.206	ppb		86
5) Chloromethane	0.00		0	N.D.	d		
6) Vinyl chloride	1.34	62	961m	0.190	ppb		
7) Bromomethane	0.00		0	N.D.			
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	2.38	45	46	No Calib.			
11) Acetone	0.00		0	N.D.	d		
12) 1,1-Dichloroethene	2.27	96	667m	0.198	ppb		
13) Hexane	3.16	57	975	Below Cal			89
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16) Methyl t-butyl ether (...)	2.93	73	1652m	0.204	ppb		
17) trans-1,2-Dichloroethene	2.92	96	750m	0.201	ppb		
18) Diisopropyl ether (DIPE)	3.35	45	1508	0.208	ppb		89
19) 1,1-Dichloroethane	3.27	63	925	0.200	ppb		94
20) Ethyl t-butyl ether (E...)	3.66	87	796	0.204	ppb	#	81
21) 2,2-Dichloropropane	3.77	77	1489	0.152	ppb		70
22) cis-1,2-Dichloroethene	3.77	96	802	0.199	ppb		92
23) Chloroform	4.04	83	1336	0.223	ppb		88
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.61	73	1507	0.202	ppb		87
26) 1,2-Dichloroethane (EDC)	4.53	62	901m	0.199	ppb		
27) 1,1,1-Trichloroethane	4.19	97	1238	0.195	ppb		98
28) 1,1-Dichloropropene	4.33	75	1092	0.251	ppb		75
29) Carbon tetrachloride	4.33	117	1402	0.208	ppb		86
31) Benzene	4.50	78	2255	0.196	ppb		96
32) Trichloroethene	5.05	95	821	0.199	ppb		93
33) 1,2-Dichloropropane	5.24	63	657	0.111	ppb	#	81
34) Bromodichloromethane	5.48	83	885	0.206	ppb		88
36) Dibromomethane	5.34	93	428	0.183	ppb		84

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

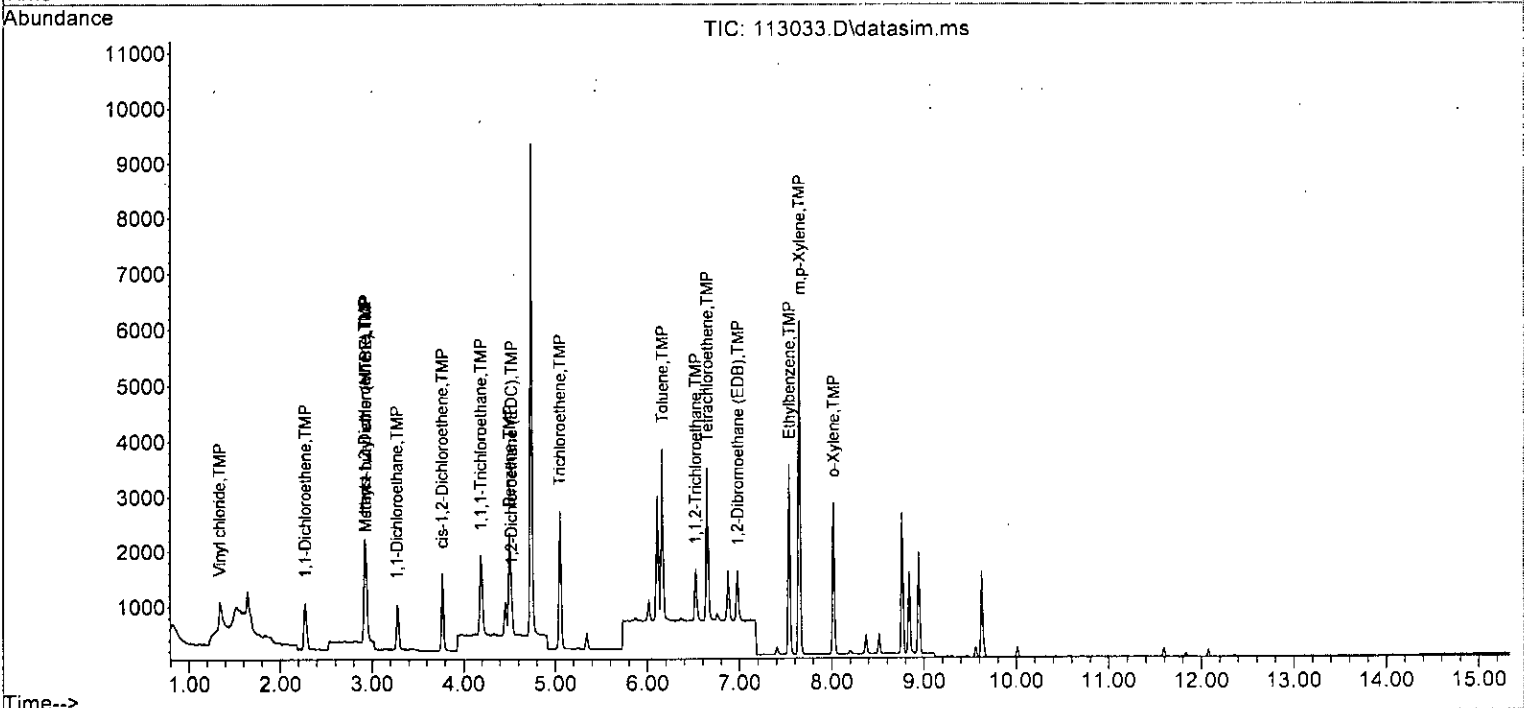
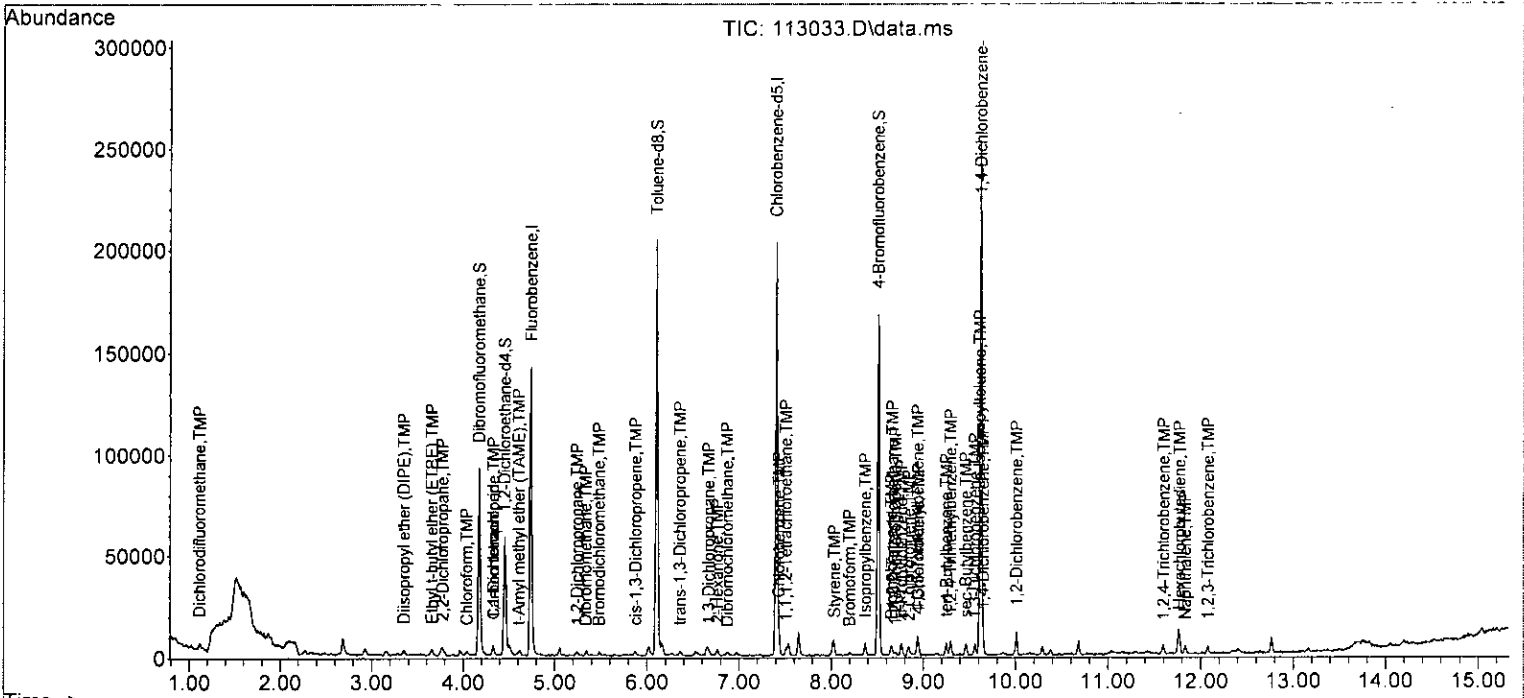
Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	5.88	75	833	0.187	ppb	81
40] Toluene	6.16	92	1735	0.212	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	1037	0.255	ppb	80
42] 1,1,2-Trichloroethane	6.53	83	474	0.204	ppb	99
43) 2-Hexanone	6.76	43	2135	1.321	ppb	86
44) 1,3-Dichloropropane	6.67	76	769	0.199	ppb	48
45] Tetrachloroethene	6.65	164	1046	0.204	ppb	97
46) Dibromochloromethane	6.87	129	905	0.186	ppb	76
47] 1,2-Dibromoethane (EDB)	6.98	107	745	0.195	ppb	88
48) Chlorobenzene	7.43	112	2216	0.206	ppb	96
49] Ethylbenzene	7.54	91	3470	0.196	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	1016	0.216	ppb	88
51] m,p-Xylene	7.65	106	3208	0.396	ppb	99
52] o-Xylene	8.02	106	1400	0.202	ppb	100
53) Styrene	8.03	104	2123	0.219	ppb	79
54) Isopropylbenzene	8.37	105	3170	0.205	ppb	63
55) Bromoform	8.20	173	620	0.180	ppb	89
58) n-Propylbenzene	8.77	91	3604	0.228	ppb	98
59) Bromobenzene	8.65	156	1224	0.213	ppb	83
60) 1,3,5-Trimethylbenzene	8.94	105	2794	0.217	ppb	91
61) 1,1,2,2-Tetrachloroethane	8.66	83	616	0.191	ppb #	47
62) 1,2,3-Trichloropropane	8.70	75	480	0.203	ppb	83
63) 2-Chlorotoluene	8.84	91	1822	0.203	ppb	96
64) 4-Chlorotoluene	8.95	91	2451	0.226	ppb	96
65) tert-Butylbenzene	9.25	119	3193	0.234	ppb	82
66) 1,2,4-Trimethylbenzene	9.30	105	3402	0.246	ppb	100
67) sec-Butylbenzene	9.46	105	3338	0.199	ppb	99
68) p-Isopropyltoluene	9.61	119	3387	0.202	ppb	95
69) 1,3-Dichlorobenzene	9.56	146	2211	0.214	ppb	98
70) 1,4-Dichlorobenzene	9.65	146	2195	0.215	ppb	92
71) 1,2-Dichlorobenzene	10.01	146	2257	0.227	ppb	88
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.60	180	1444	0.207	ppb	84
74) Hexachlorobutadiene	11.77	225	969	0.235	ppb	66
75) Naphthalene	11.83	128	2757	0.203	ppb	83
76) 1,2,3-Trichlorobenzene	12.08	180	1065	0.193	ppb	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP	Ethanol	-1.000	0.000	0.0	100	0.05
3 S	Dibromofluoromethane	10.000	9.922	0.8	100	0.00
4 TMP	Dichlorodifluoromethane	0.200	0.206	-3.0	100	0.00
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.200	0.190	5.0	105	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.83#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.05
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.200	0.198	1.0	104	0.01
13 TMP	Hexane	-1.000	-0.311	0.0	0	0.00
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.200	0.204	-2.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.200	0.201	-0.5	96	0.01
18 TMP	Diisopropyl ether (DIPE)	0.200	0.208	-4.0	100	0.00
19 TMP	1,1-Dichloroethane	0.200	0.200	0.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.200	0.204	-2.0	100	0.00
21 TMP	2,2-Dichloropropane	0.200	0.152	24.0#	100	0.01
22 TMP	cis-1,2-Dichloroethene	0.200	0.199	0.5	100	0.00
23 TMP	Chloroform	0.200	0.223	-11.5	100	0.00
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.200	0.202	-1.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.200	0.199	0.5	95	0.01
27 TMP	1,1,1-Trichloroethane	0.200	0.195	2.5	100	0.00
28 TMP	1,1-Dichloropropene	0.200	0.251	-25.5#	100	0.00
29 TMP	Carbon tetrachloride	0.200	0.208	-4.0	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.787	2.1	100	0.00
31 TMP	Benzene	0.200	0.196	2.0	100	0.00
32 TMP	Trichloroethene	0.200	0.199	0.5	100	0.00
33 TMP	1,2-Dichloropropane	0.200	0.111	44.5#	100	0.00
34 TMP	Bromodichloromethane	0.200	0.206	-3.0	100	0.00
35 S	Toluene-d8	10.000	9.728	2.7	100	0.00
36 TMP	Dibromomethane	0.200	0.183	8.5	100	0.00
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.200	0.187	6.5	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.200	0.212	-6.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.200	0.255	-27.5#	100	0.00
42 TMP	1,1,2-Trichloroethane	0.200	0.204	-2.0	100	0.00
43 TMP	2-Hexanone	-1.000	1.321	0.0	0	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.200	0.199	0.5	100	0.00
45 TMP Tetrachloroethene	0.200	0.204	-2.0	100	0.00
46 TMP Dibromochloromethane	0.200	0.186	7.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.200	0.195	2.5	100	0.01
48 TMP Chlorobenzene	0.200	0.206	-3.0	100	0.00
49 TMP Ethylbenzene	0.200	0.196	2.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.200	0.216	-8.0	100	0.00
51 TMP m,p-Xylene	0.400	0.396	1.0	100	0.00
52 TMP o-Xylene	0.200	0.202	-1.0	100	0.00
53 TMP Styrene	0.200	0.219	-9.5	100	0.00
54 TMP Isopropylbenzene	0.200	0.205	-2.5	100	0.00
55 TMP Bromoform	0.200	0.180	10.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.162	-1.6	100	0.00
58 TMP n-Propylbenzene	0.200	0.228	-14.0	100	0.00
59 TMP Bromobenzene	0.200	0.213	-6.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.200	0.217	-8.5	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.200	0.191	4.5	100	0.00
62 TMP 1,2,3-Trichloropropane	0.200	0.203	-1.5	100	0.00
63 TMP 2-Chlorotoluene	0.200	0.203	-1.5	100	0.00
64 TMP 4-Chlorotoluene	0.200	0.226	-13.0	100	0.00
65 TMP tert-Butylbenzene	0.200	0.234	-17.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.200	0.246	-23.0#	100	0.00
67 TMP sec-Butylbenzene	0.200	0.199	0.5	100	0.00
68 TMP p-Isopropyltoluene	0.200	0.202	-1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	0.200	0.214	-7.0	100	0.00
70 TMP 1,4-Dichlorobenzene	0.200	0.215	-7.5	100	0.00
71 TMP 1,2-Dichlorobenzene	0.200	0.227	-13.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.200	0.207	-3.5	100	0.00
74 TMP Hexachlorobutadiene	0.200	0.235	-17.5	100	0.00
75 TMP Naphthalene	0.200	0.203	-1.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.200	0.193	3.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.05
3 S Dibromofluoromethane	0.319	0.316	0.9	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.599	-2.9	100	0.00
5 TMP Chloromethane	0.386	0.000#	100.0#	0#	-1.25#
6 TMP Vinyl chloride	0.373	0.354	5.1	105	0.00
7 TMP Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.200	0.000#	100.0#	0#	-1.64#
9 TMP Trichlorofluoromethane	1.015	0.000#	100.0#	0#	-1.83#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.05
11 TMP Acetone	0.022	0.000#	100.0#	0#	-2.32#
12 TMP 1,1-Dichloroethene	0.248	0.246	0.8	104	0.01
13 TMP Hexane	0.244	0.000#	100.0#	0#	0.00
14 TMP Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.022	0.000#	100.0#	0#	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.608	-2.0	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.276	-0.7	96	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.555	-4.1	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.341	0.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.293	-2.1	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.548	-84.5#	100	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.295	0.3	100	0.00
23 TMP Chloroform	0.441	0.492	-11.6	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.000#	100.0#	0#	-3.78#
25 TMP t-Amyl methyl ether (TAME)	0.551	0.555	-0.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.332	0.6	95	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.456	2.6	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.402	-25.6#	100	0.00
29 TMP Carbon tetrachloride	0.497	0.516	-3.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP Benzene	0.849	0.830	2.2	100	0.00
32 TMP Trichloroethene	0.304	0.302	0.7	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.242	-28.0#	100	0.00
34 TMP Bromodichloromethane	0.316	0.326	-3.2	100	0.00
35 S Toluene-d8	0.899	0.874	2.8	100	0.00
36 TMP Dibromomethane	0.173	0.158	8.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.000#	100.0#	0#	-6.01#
38 TMP cis-1,3-Dichloropropene	0.329	0.307	6.7	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.760	-5.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.454	-27.5#	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.208	-2.0	100	0.00
43 TMP 2-Hexanone	0.142	0.000#	100.0#	0#	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.337	0.3	100	0.00
45 TMP Tetrachloroethene	0.443	0.458	-3.4	100	0.00
46 TMP Dibromochloromethane	0.425	0.396	6.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.326	2.7	100	0.01
48 TMP Chlorobenzene	0.943	0.971	-3.0	100	0.00
49 TMP Ethylbenzene	1.560	1.520	2.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.445	-7.7	100	0.00
51 TMP m,p-Xylene	0.718	0.703	2.1	100	0.00
52 TMP o-Xylene	0.611	0.613	-0.3	100	0.00
53 TMP Styrene	0.848	0.930	-9.7	100	0.00
54 TMP Isopropylbenzene	1.353	1.388	-2.6	100	0.00
55 TMP Bromoform	0.302	0.272	9.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.616	-1.7	100	0.00
58 TMP n-Propylbenzene	2.257	2.573	-14.0	100	0.00
59 TMP Bromobenzene	0.821	0.874	-6.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.995	-8.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.440#	-1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.343#	-1.8	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.301	-1.5	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.750	-12.8	100	0.00
65 TMP tert-Butylbenzene	1.946	2.280	-17.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.429	-23.0#	100	0.00
67 TMP sec-Butylbenzene	2.396	2.383	0.5	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.418	-0.8	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.579	-7.0	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.567	-7.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.611	-13.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.997	1.031	-3.4	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.692	-17.7	100	0.00
75 TMP Naphthalene	1.938	1.968	-1.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.760	3.7	100	0.00

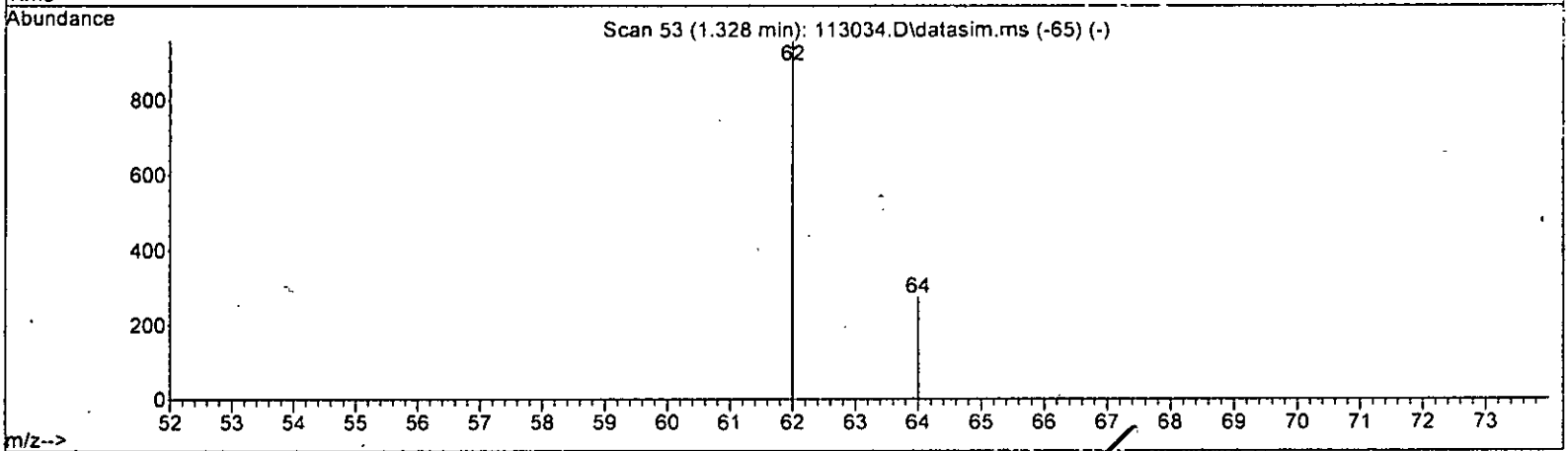
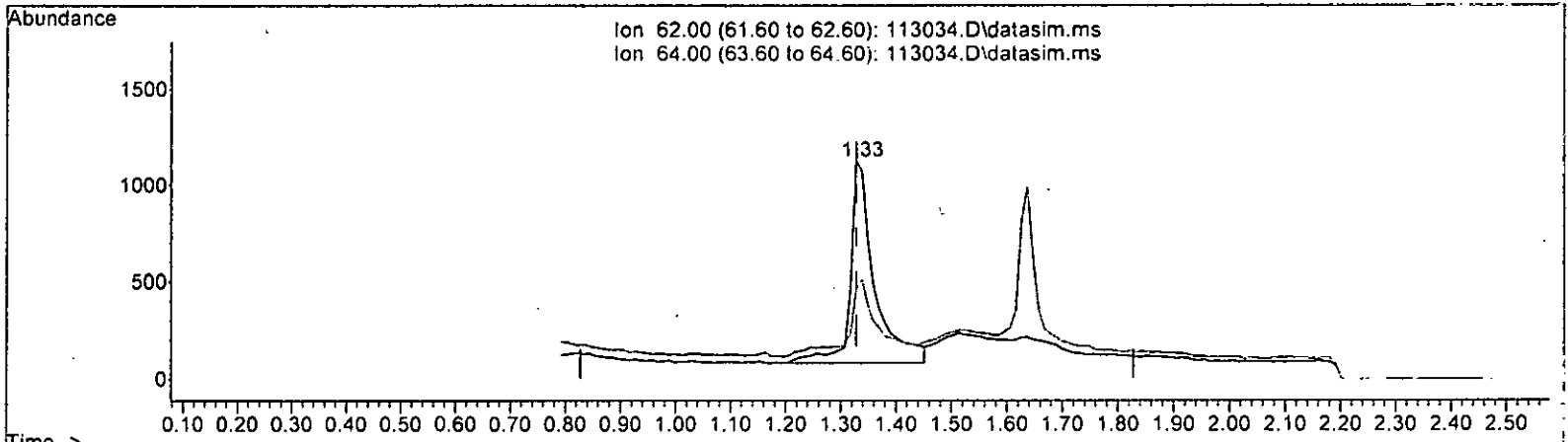
(#) = Out of Range

SPCC's out = 15 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(6) Vinyl chloride (TMP)

1.328min (-0.000) 0.691 ppb

response 3185

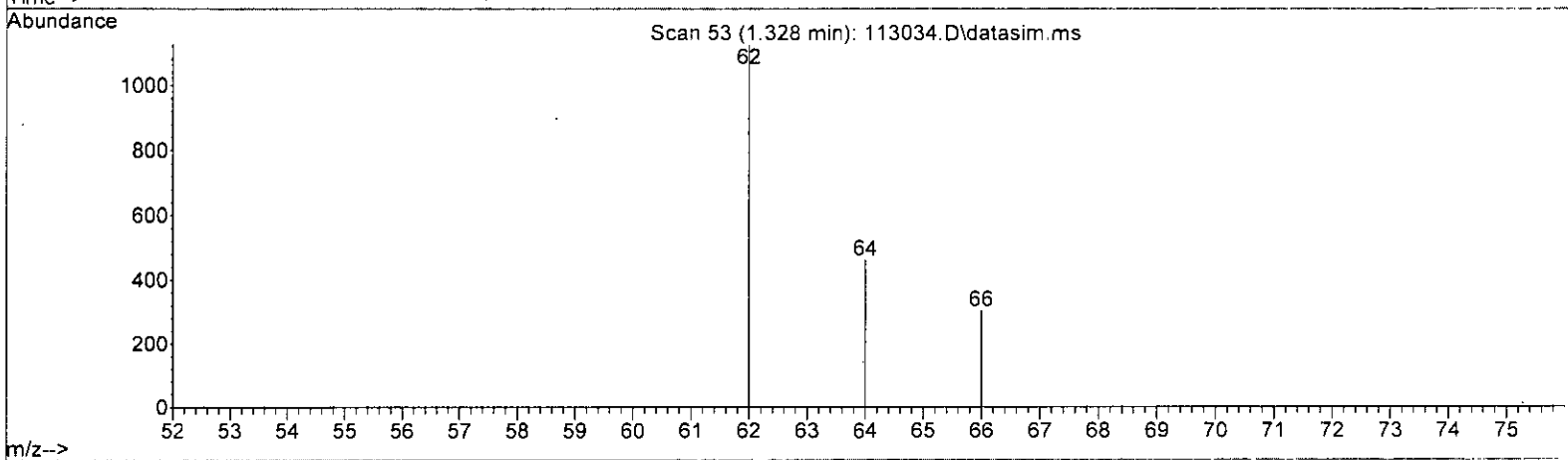
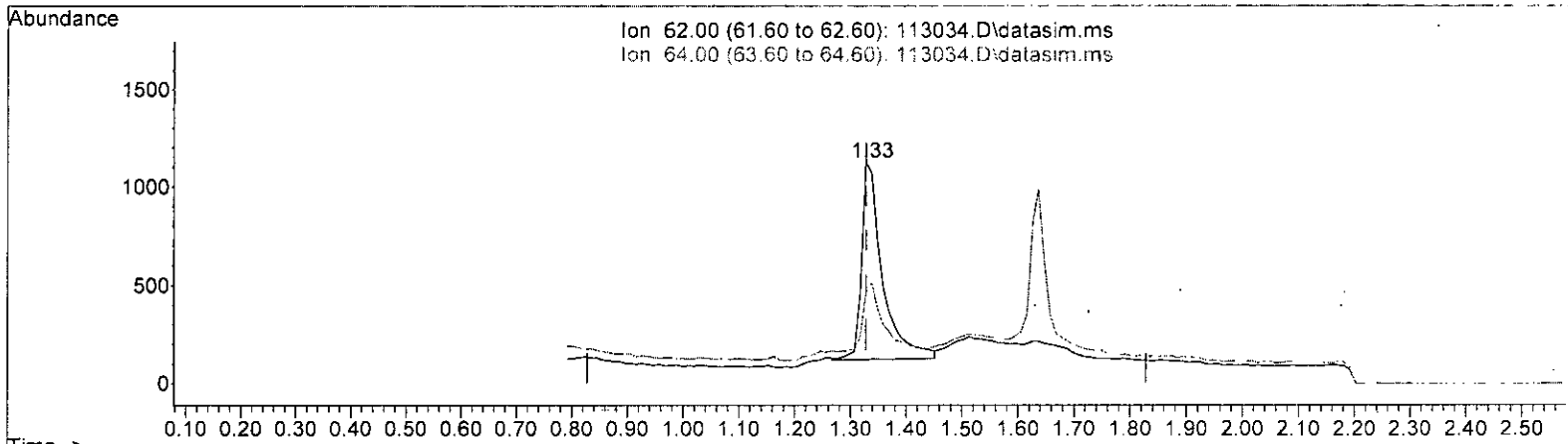
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	32.66
0.00	0.00	0.00
0.00	0.00	0.00

*M. 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(6) Vinyl chloride (TMP)

1.328min (-0.000) 0.564 ppb m

response 2598

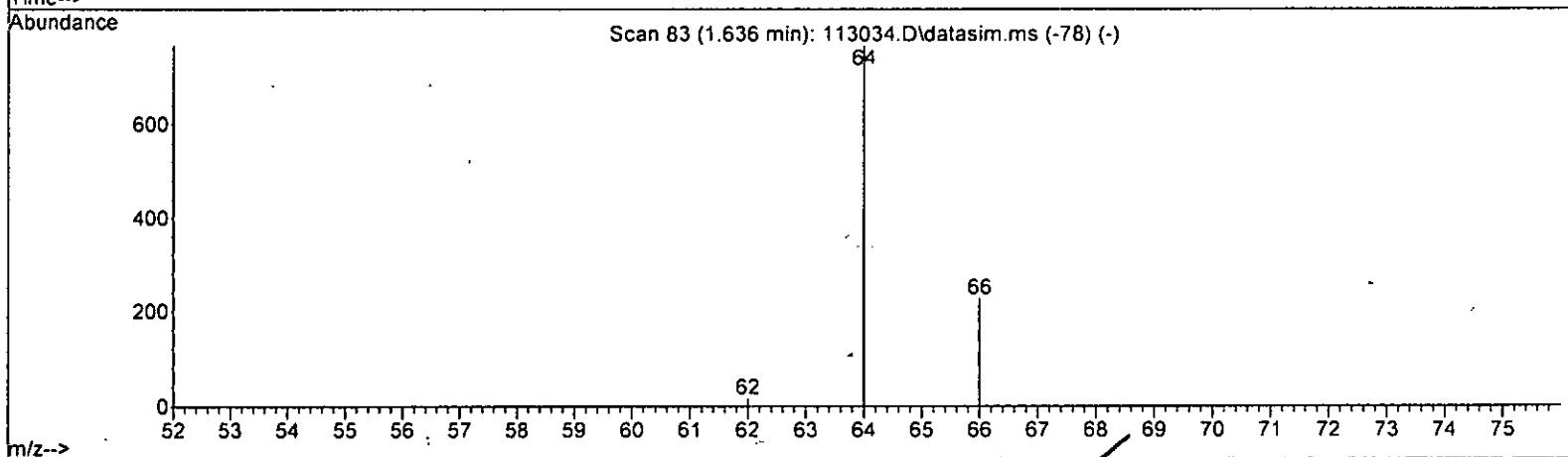
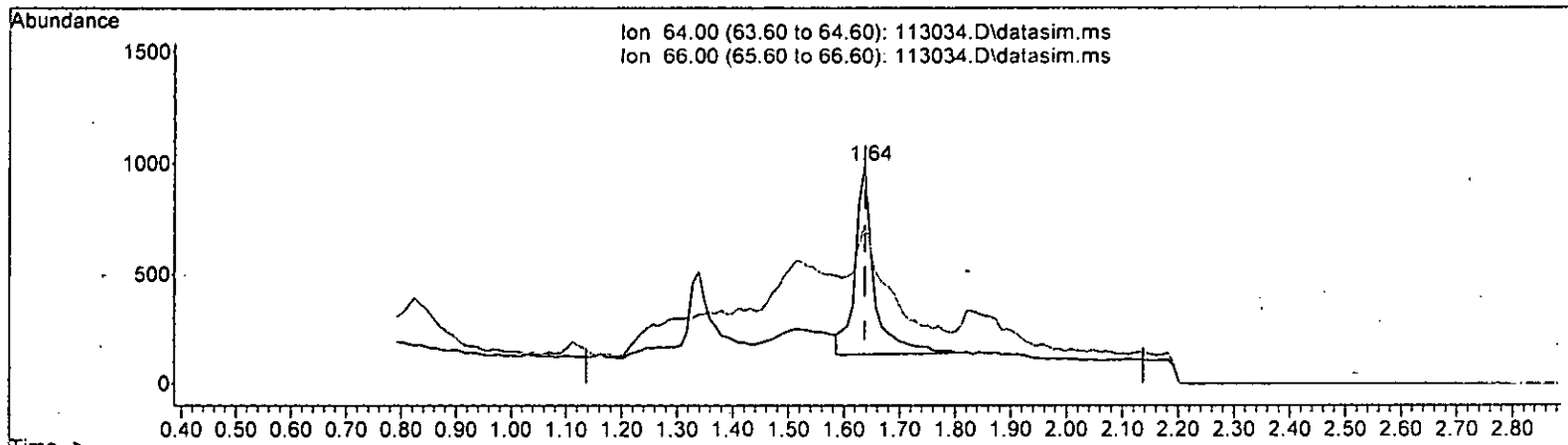
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	40.76
0.00	0.00	0.00
0.00	0.00	0.00

M 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(8) Chloroethane (TMP)

1.636min (-0.001) 0.829 ppb

response 2045

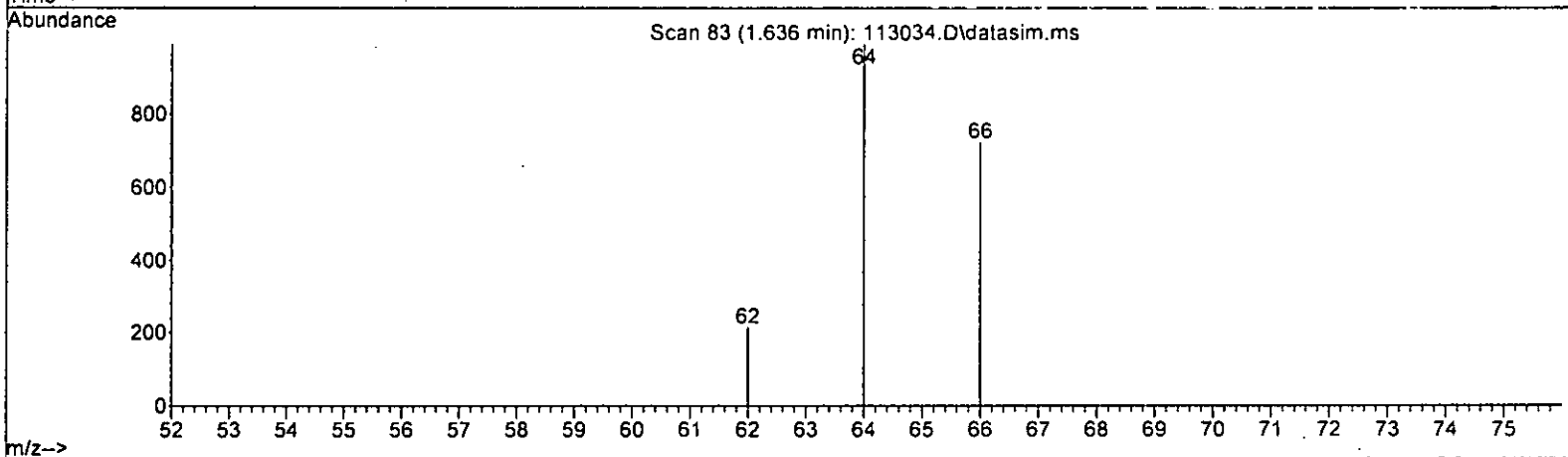
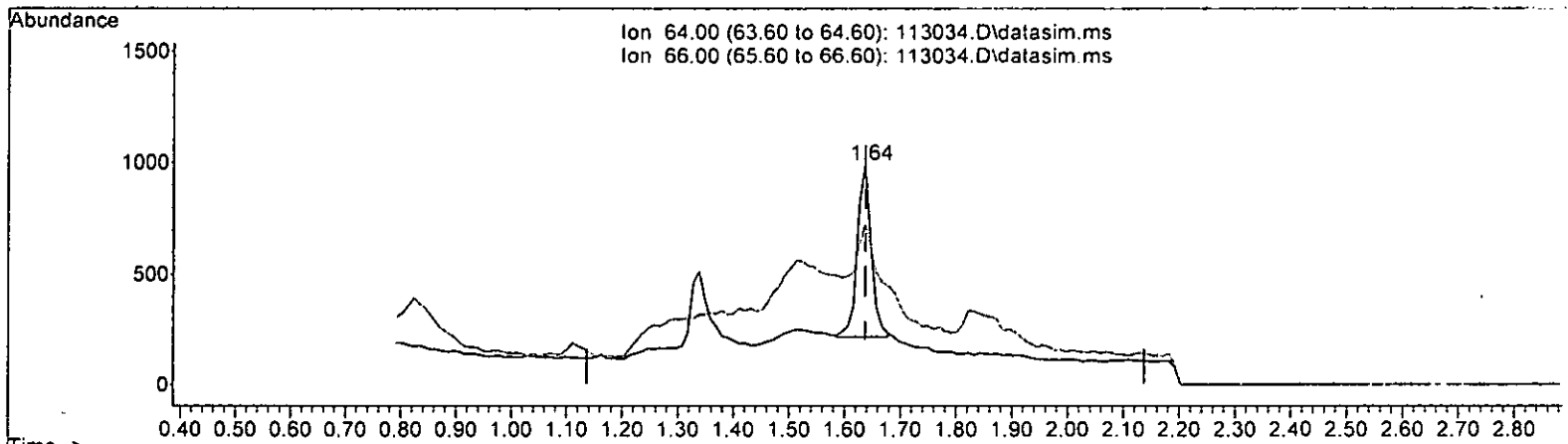
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	52.94
0.00	0.00	0.00
0.00	0.00	0.00

*m/z*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

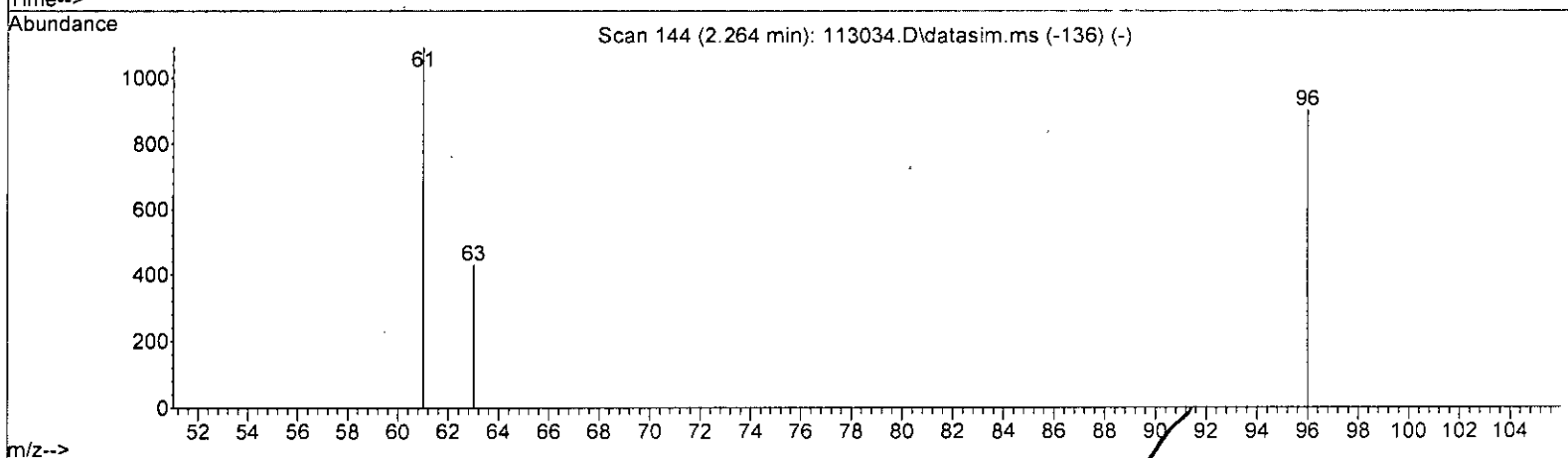
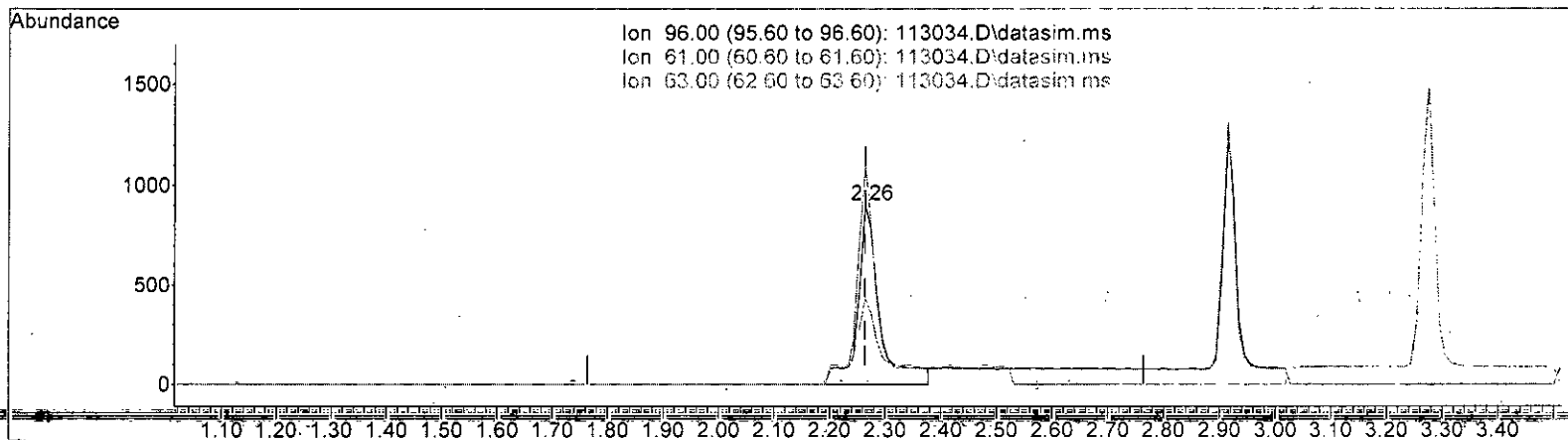
*m 12.1*

(8) Chloroethane (TMP)		
1.636min (-0.001)	0.548 ppb m	
response	1353	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	72.87#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.264min (+ 0.000) 0.812 ppb

response 2486

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	121.33
63.00	41.10	47.78
0.00	0.00	0.00

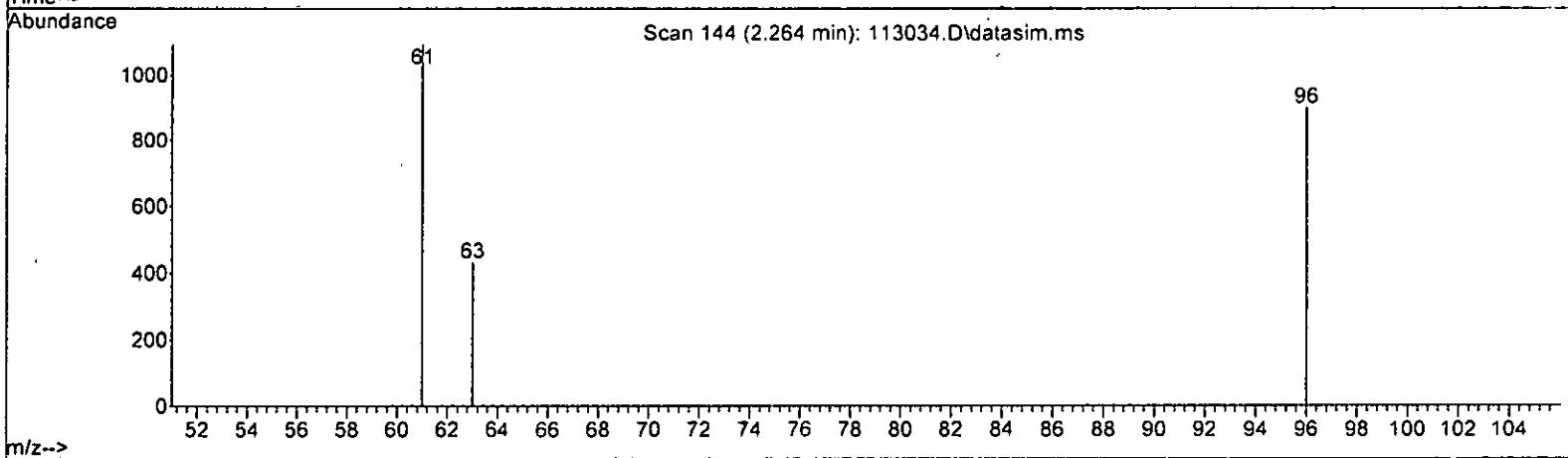
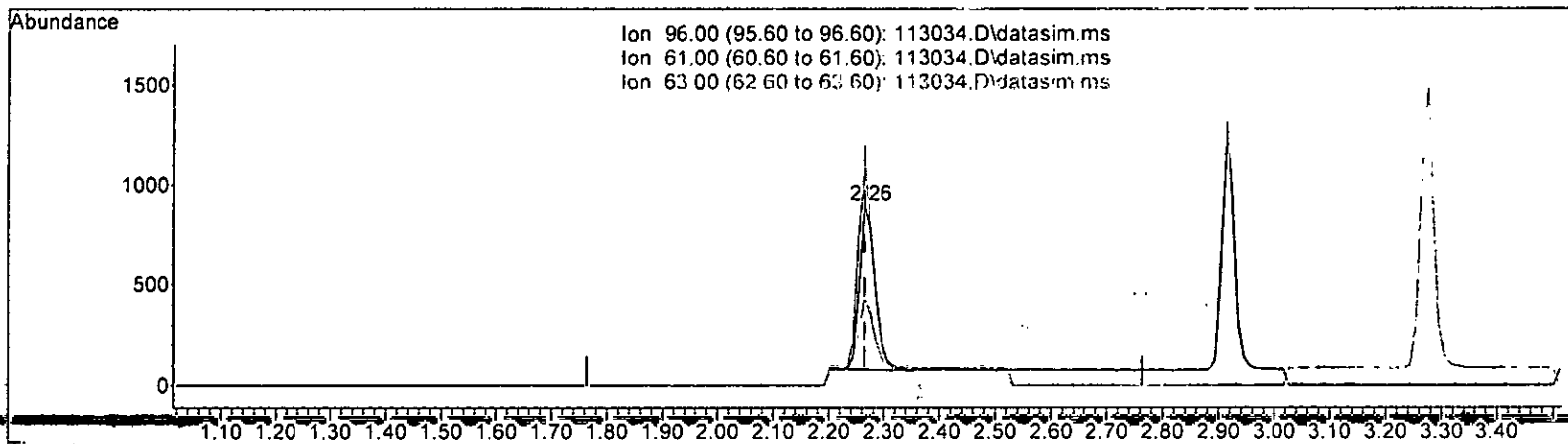
m/z 121



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(12) 1,1-Dichloroethene (TMP) m 12.1

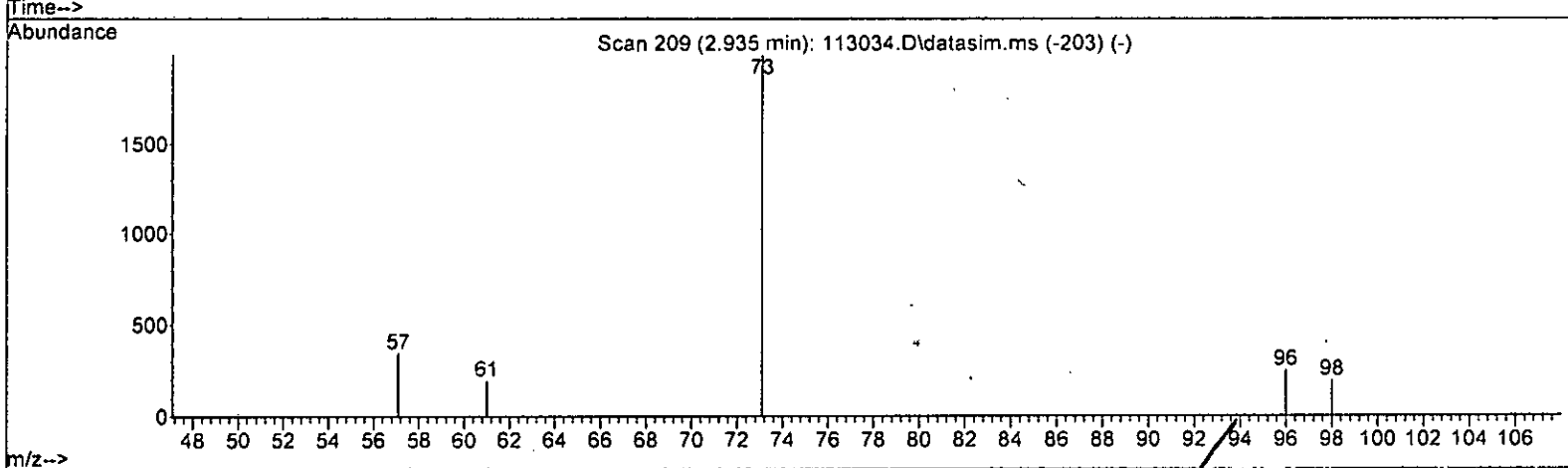
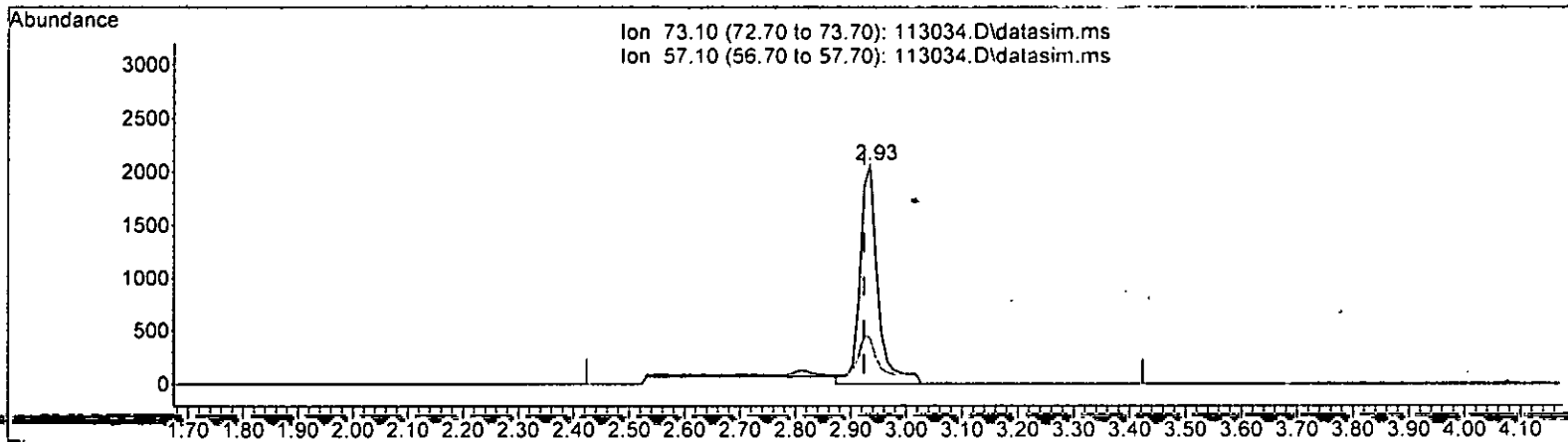
2.264min (+ 0.000). 0.527 ppb m

response	1612
Ion	Exp% Act%
96.00	100.00 100.00
61.00	127.10 121.33
63.00	41.10 47.78
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.935min (+ 0.011) 0.621 ppb

response 4570

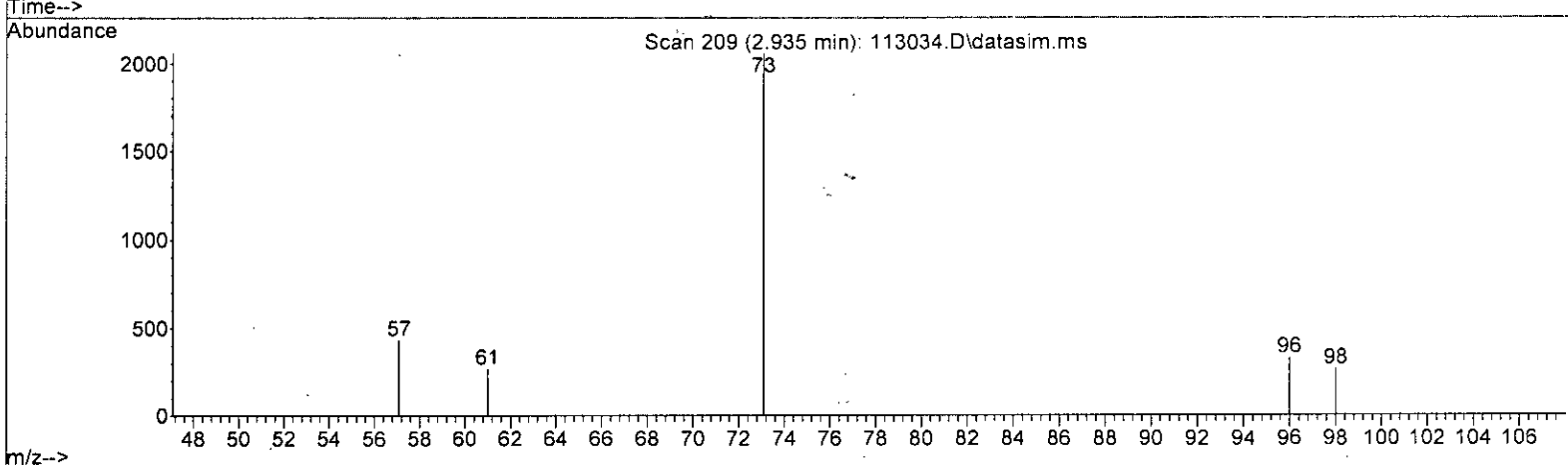
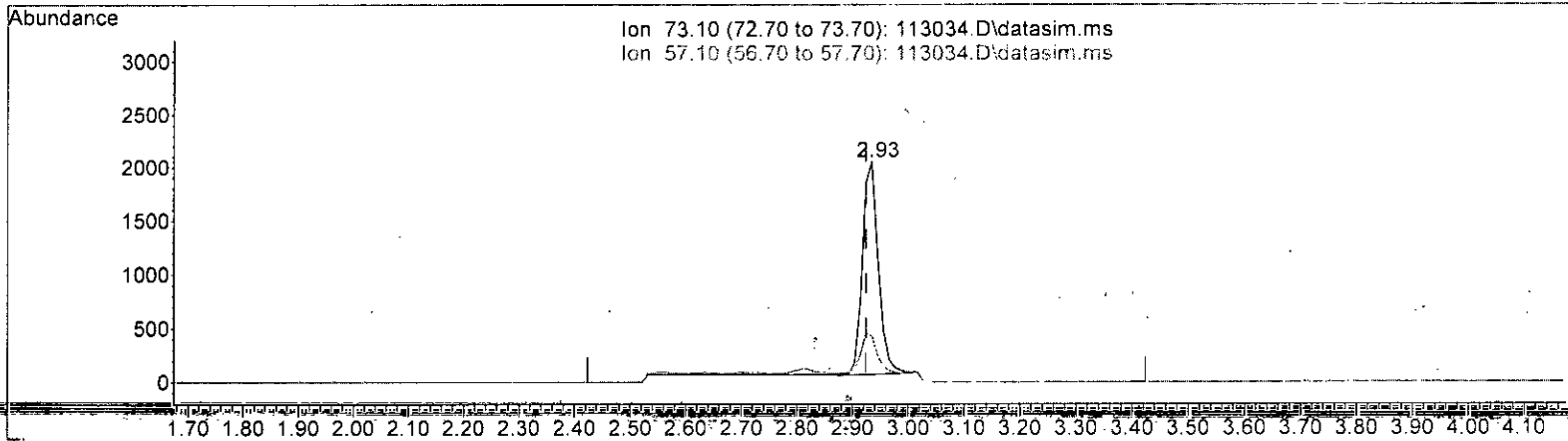
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	20.88
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.935min (+ 0.011) 0.535 ppb m

response 3934

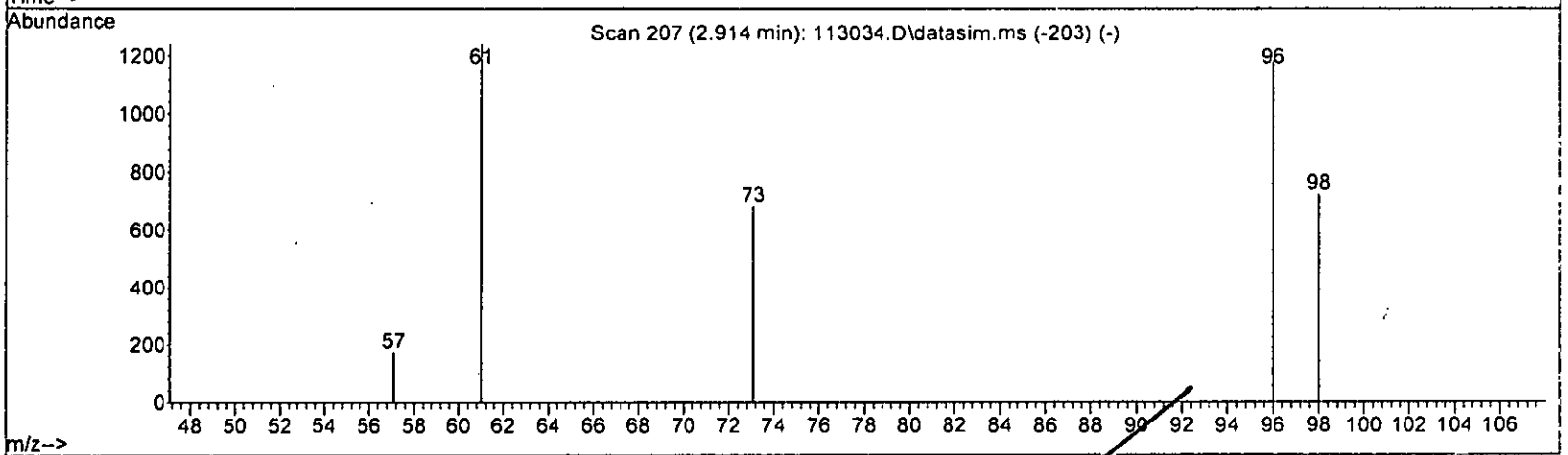
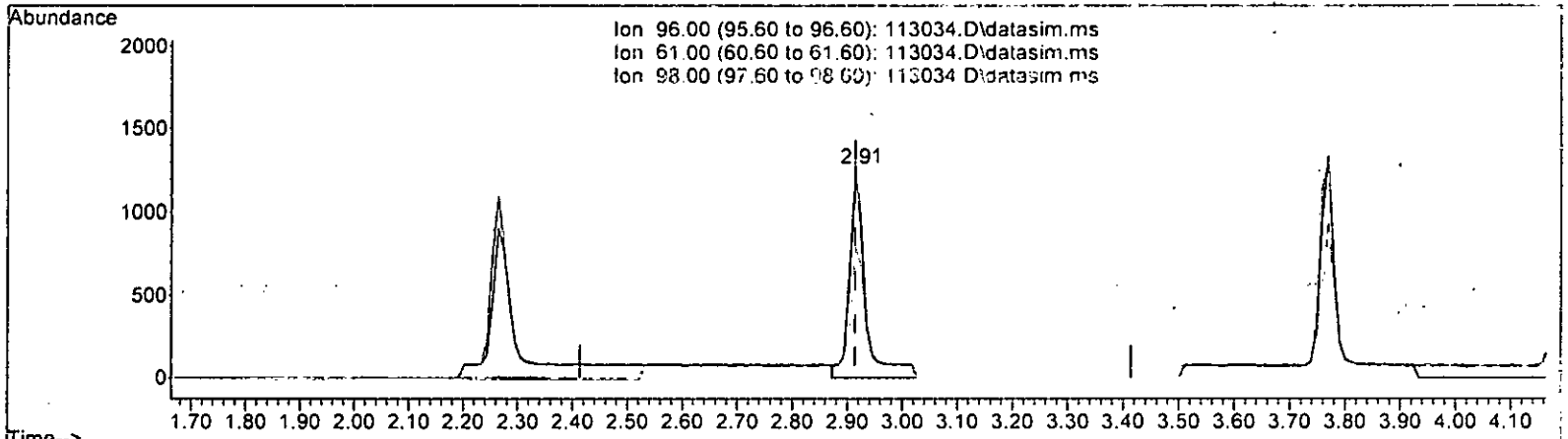
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	20.88
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.914min (-0.000) 0.730 ppb

response 2473

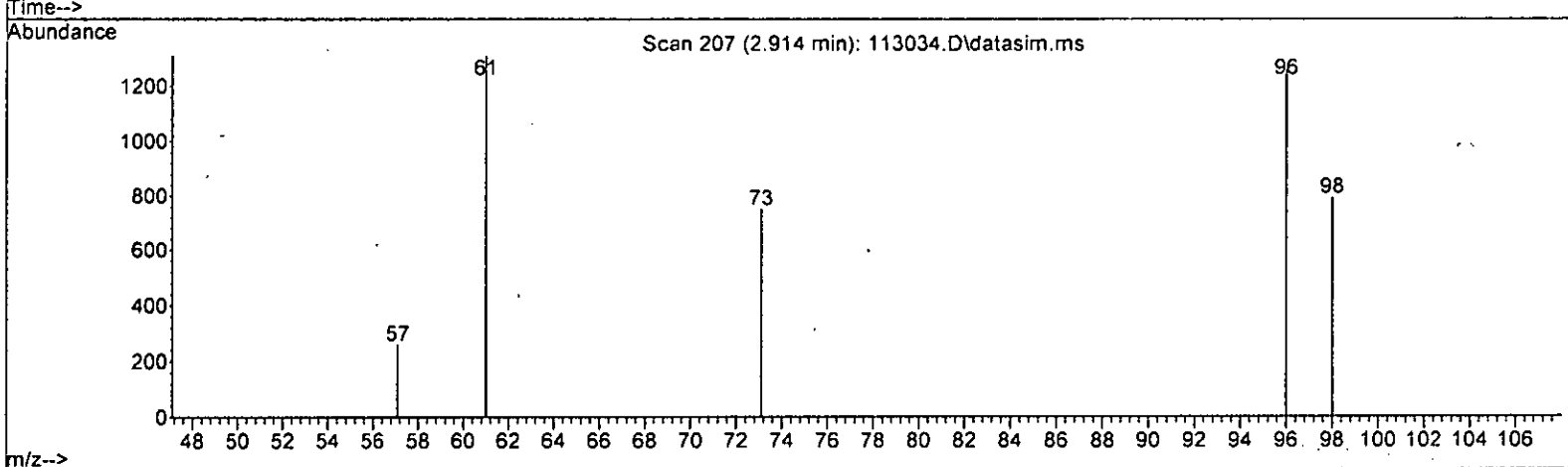
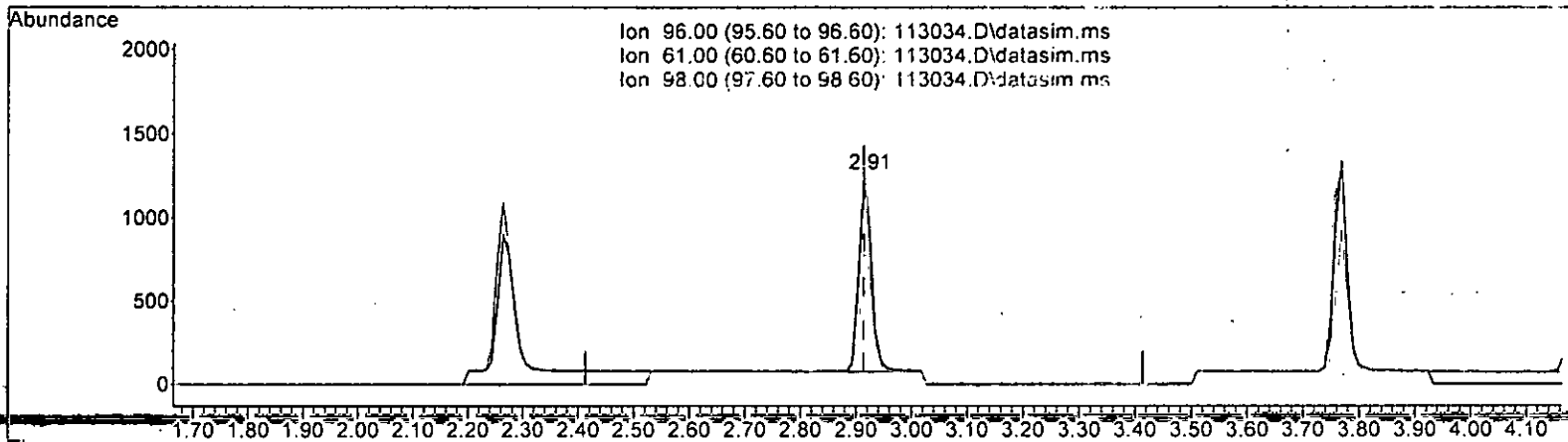
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	104.13
98.00	62.70	62.96
0.00	0.00	0.00

*12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) M121

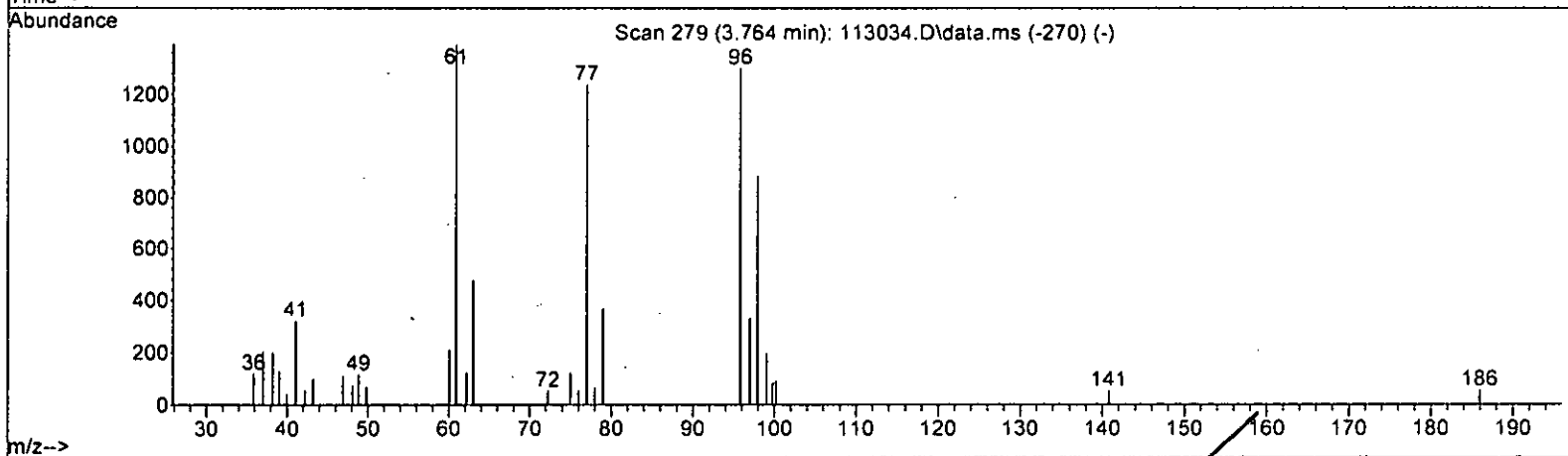
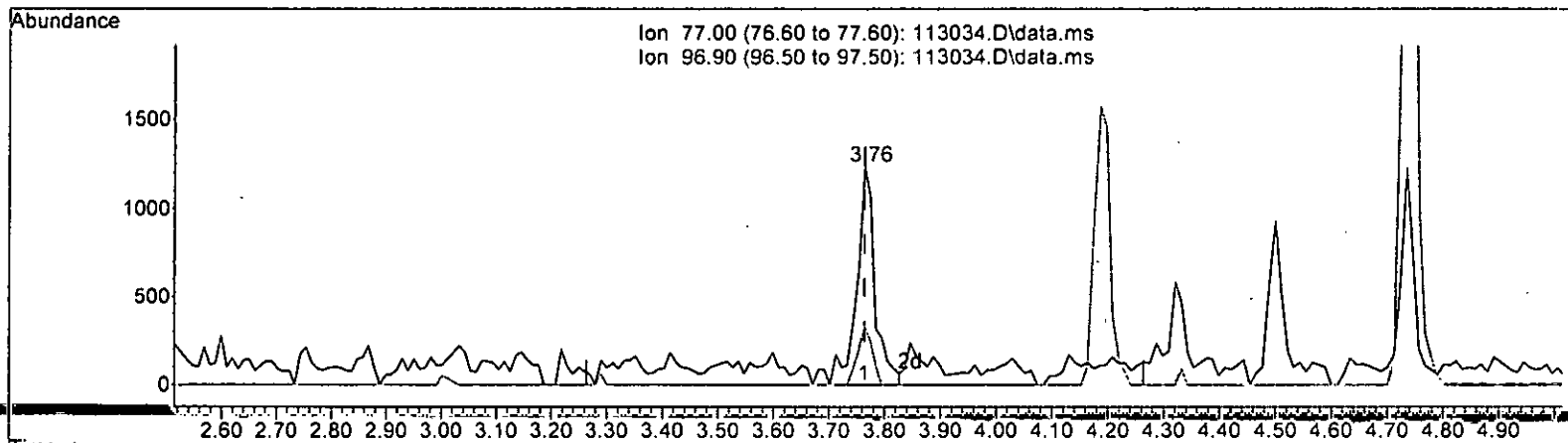
2.914min (-0.000) 0.538 ppb m

response	1822
Ion	Exp% Act%
96.00	100.00 100.00
61.00	107.00 104.13
98.00	62.70 62.96
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(21) 2,2-Dichloropropane (TMP)

3.764min (-0.000) 0.677 ppb

response 2896

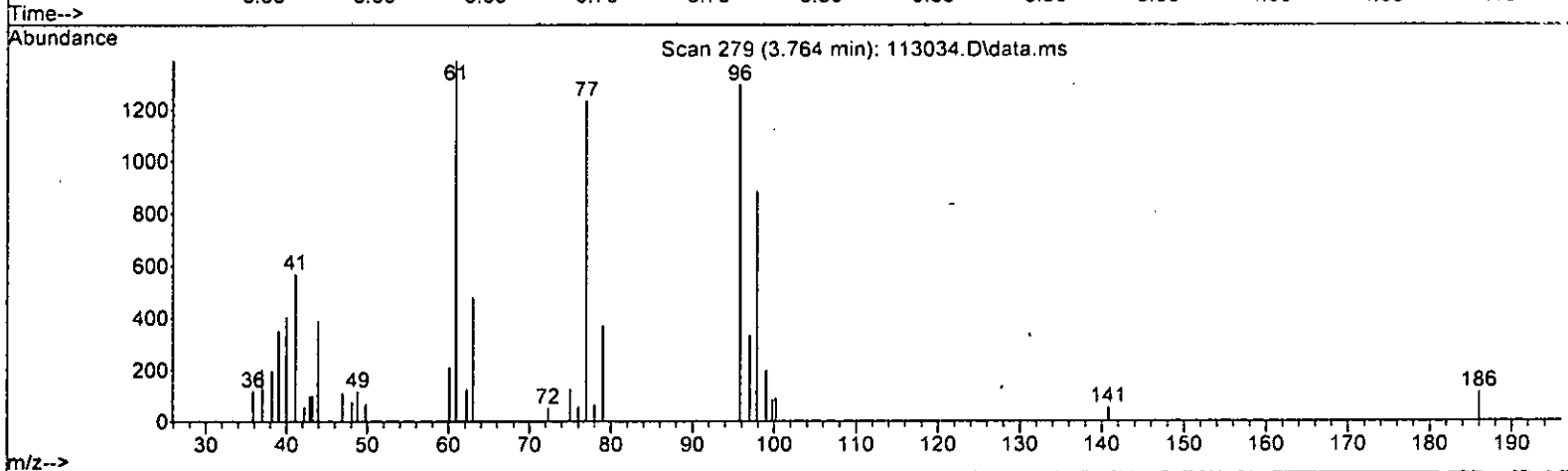
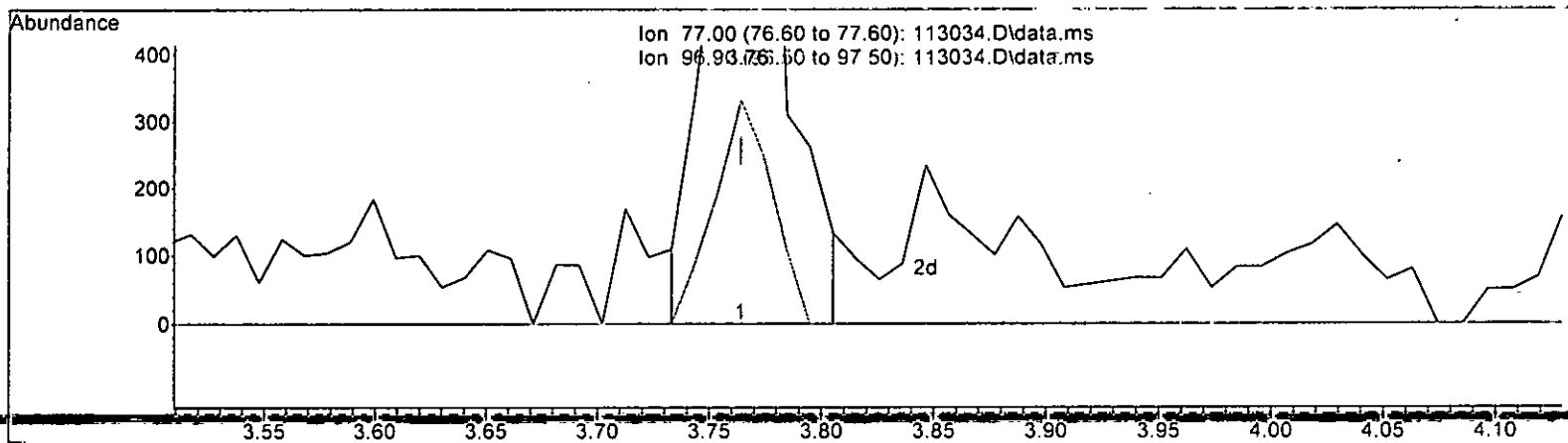
Ion	Exp%	Act%
77.00	100.00	100.00
96.90	32.00	26.90
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

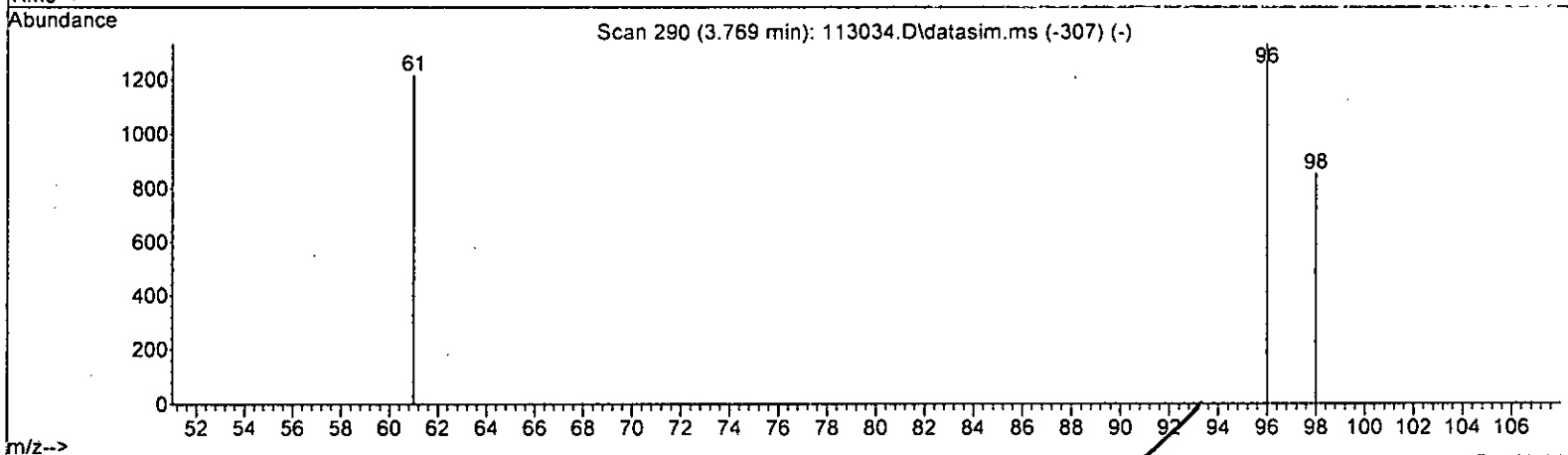
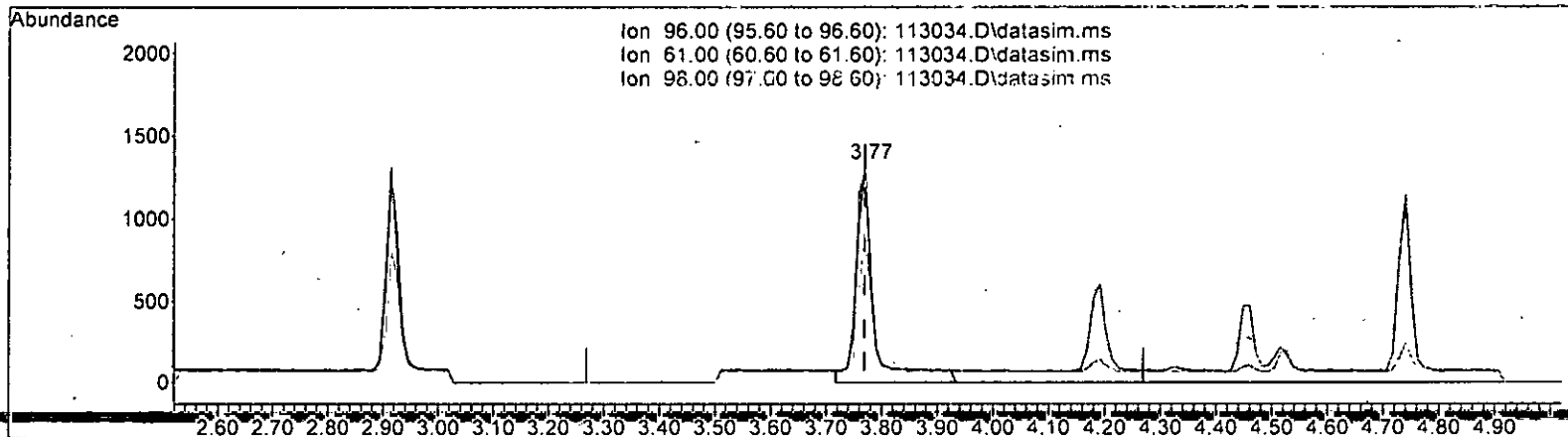
M 12.1

(21) 2,2-Dichloropropane (TMP)			
3.764min (-0.000) 0.528 ppb m			
response	2458		
Ion	Exp%	Act%	
77.00	100.00	100.00	
96.90	32.00	26.90	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(22) cis-1,2-Dichloroethene (TMP)

3.769min (-0.000) 0.801 ppb

response	2931	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	97.00	91.35
98.00	68.10	64.36
0.00	0.00	0.00

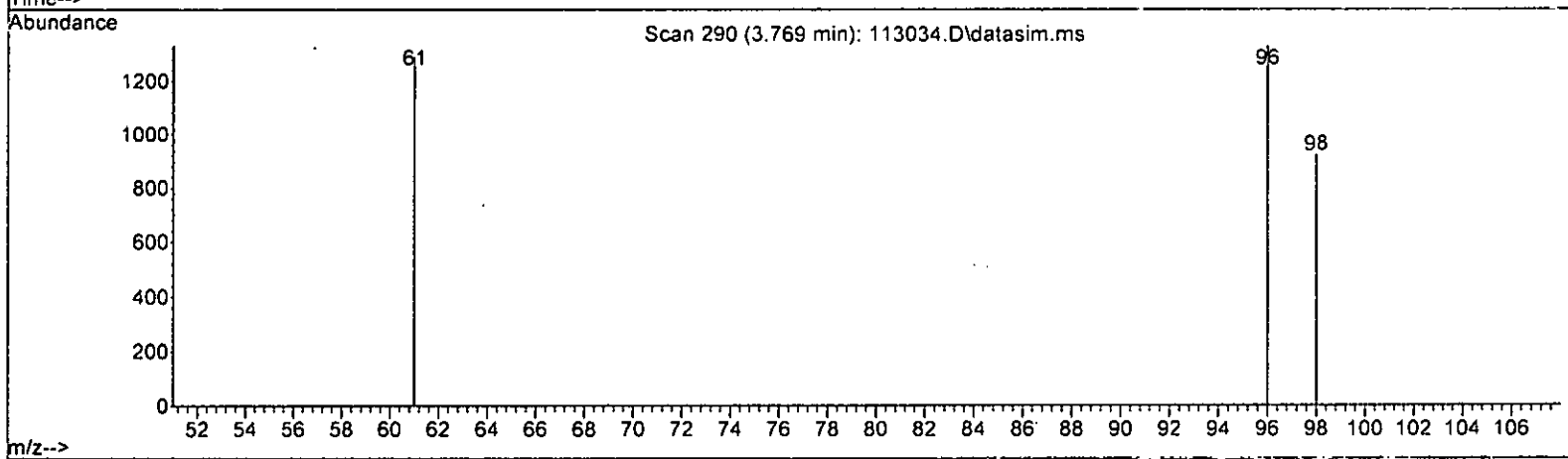
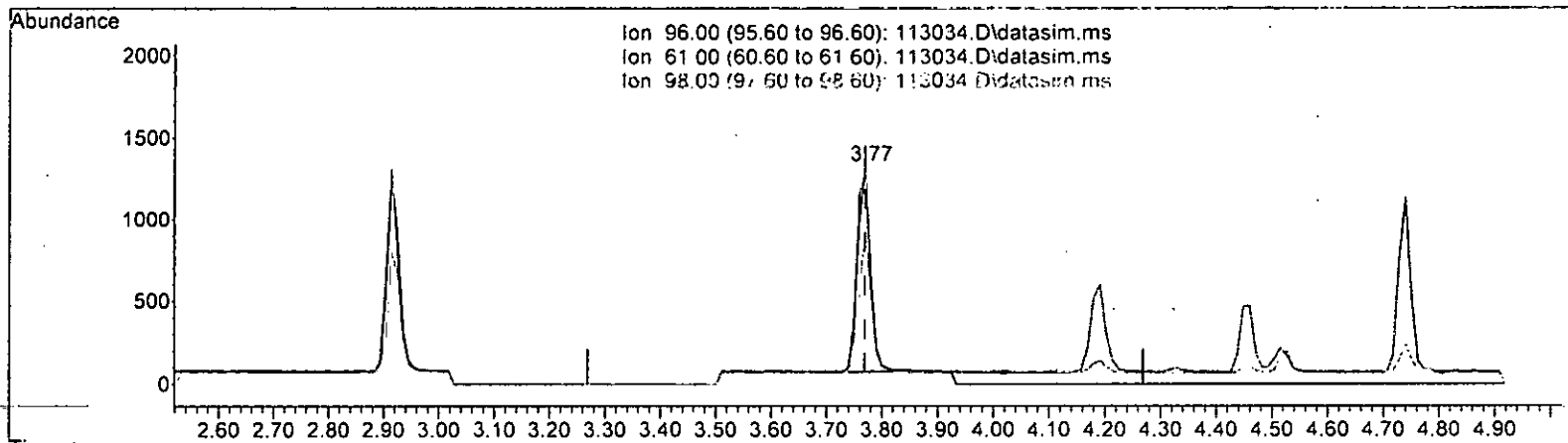
M12.1



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(22) cis-1,2-Dichloroethene (TMP)

3.769min (-0.000) 0.538 ppb m

response 1968

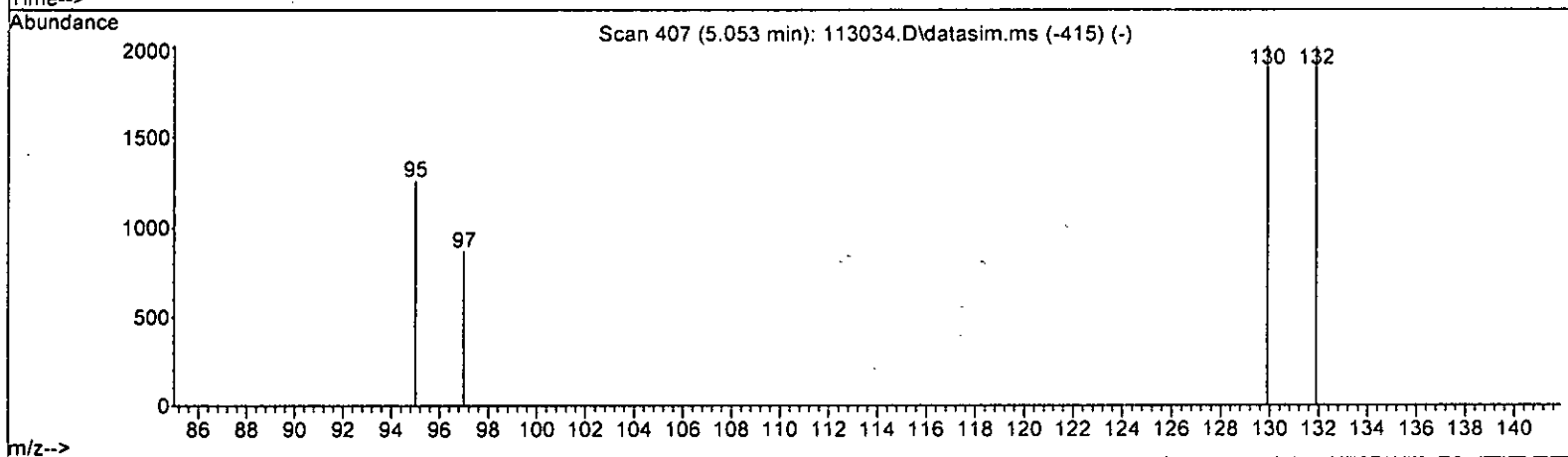
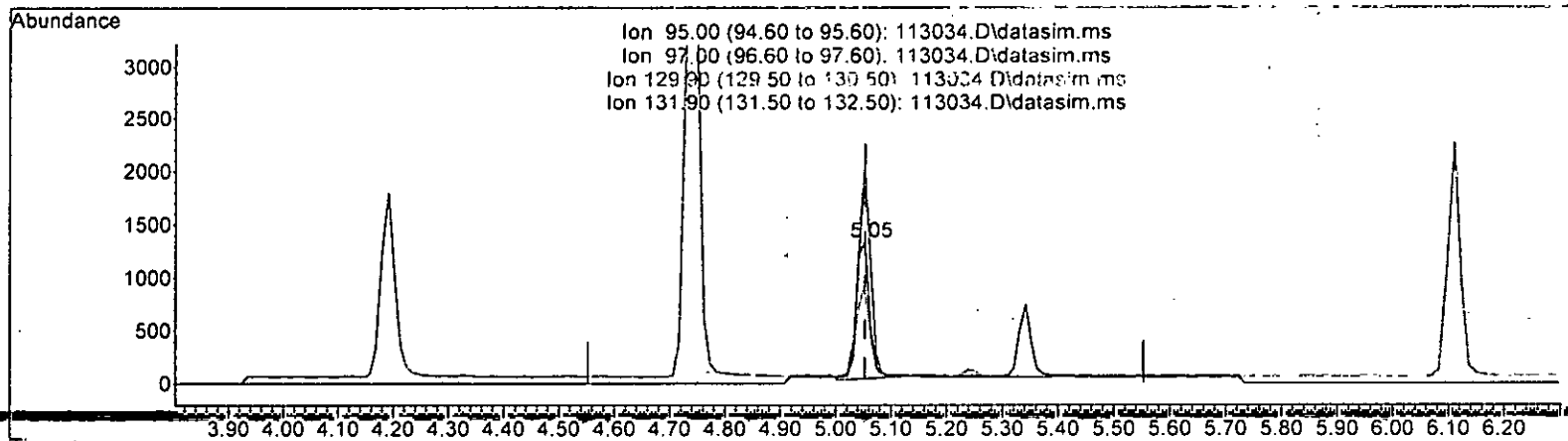
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	97.00	96.99
98.00	68.10	69.47
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(32) Trichloroethene (TME) *M 12.1*

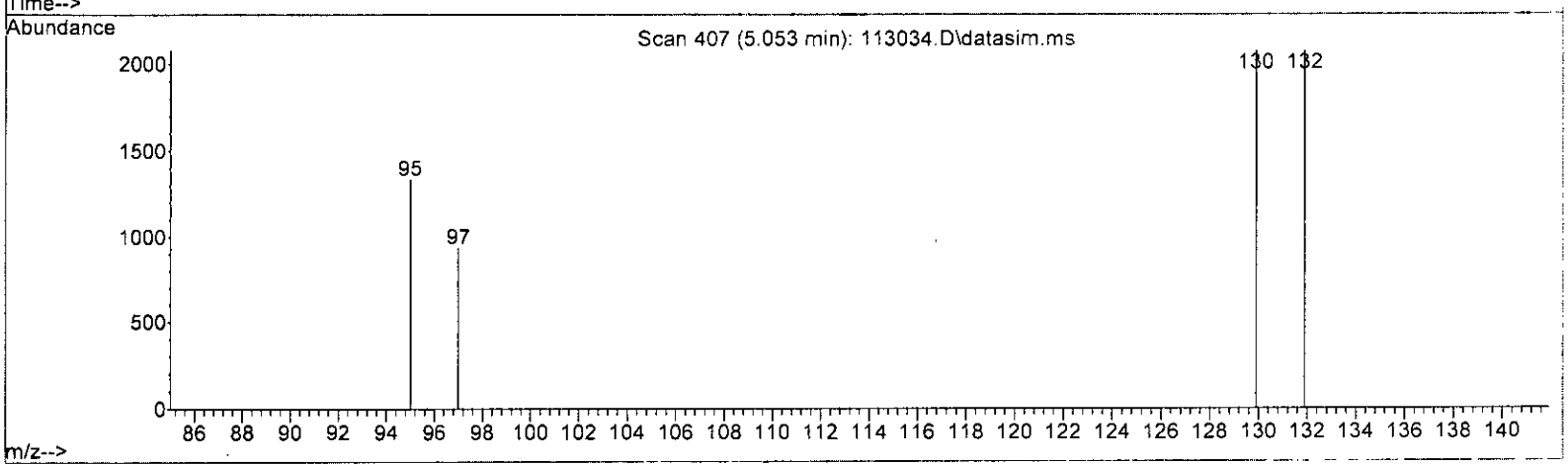
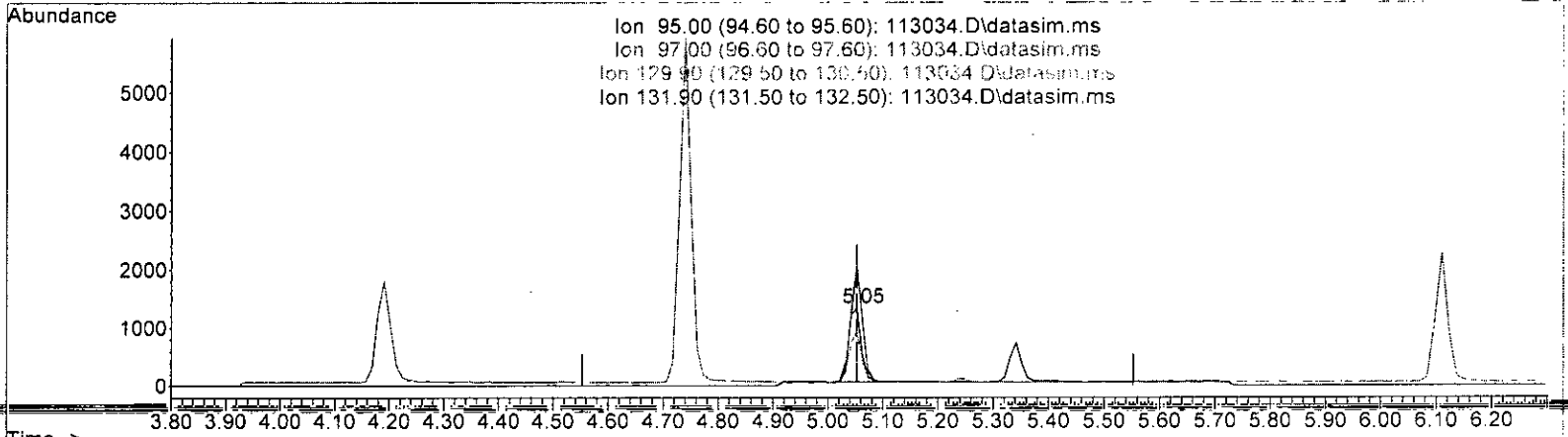
5.053min (-0.000) 0.596 ppb

response	2236
Ion	Exp% Act%
95.00	100.00 100.00
97.00	69.90 68.62
129.90	161.00 159.98
131.90	160.10 159.35

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(32) Trichloroethene (TMP)

5.053min (-0.000) 0.558 ppb m

response 2096

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	70.10
129.90	161.00	155.97
131.90	160.10	155.30

*LM 12.1*

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	123466	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	111984	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	68714	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	41571	10.569	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	105.70%		
30) 1,2-Dichloroethane-d4	4.45	102	7900	10.716	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery	=	107.20%		
35) Toluene-d8	6.11	98	116986	10.541	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery	=	105.40%		
57) 4-Bromofluorobenzene	8.51	95	43280	10.394	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery	=	103.90%		
Target Compounds							
							Qvalue
2) Ethanol	2.35	45	207	No Calib			
4) Dichlorodifluoromethane	1.11	85	4074	0.567	ppb		92
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.33	62	2598m	0.564	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.64	64	1353m	0.548	ppb		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	2.35	45	207	No Calib			
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.26	96	1612m	0.527	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.93	73	3934m	0.535	ppb		
17] trans-1,2-Dichloroethene	2.91	96	1822m	0.538	ppb		
18) Diisopropyl ether (DIPE)	3.34	45	3332	0.506	ppb		90
19] 1,1-Dichloroethane	3.27	63	2275	0.541	ppb		100
20) Ethyl t-butyl ether (E...)	3.65	87	1826	0.515	ppb		93
21) 2,2-Dichloropropane	3.76	77	2896	0.677	ppb		91
22] cis-1,2-Dichloroethene	3.77	96	1968m	0.538	ppb		
23) Chloroform	4.04	83	2934	0.538	ppb		97
24) 2-Butanone (MEK)	3.79	43	3573	3.132	ppb		84
25) t-Amyl methyl ether (T...)	4.61	73	3699	0.544	ppb		98
26] 1,2-Dichloroethane (EDC)	4.52	62	2080	0.535	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	3136	0.543	ppb		100
28) 1,1-Dichloropropene	4.32	75	2041	0.516	ppb		89
29) Carbon tetrachloride	4.32	117	3273	0.533	ppb		100
31] Benzene	4.50	78	5597	0.560	ppb		100
32] Trichloroethene	5.05	95	2096m	0.558	ppb		
33) 1,2-Dichloropropane	5.24	63	1606	0.607	ppb	#	81
34) Bromodichloromethane	5.48	83	2332	0.597	ppb		73
36) Dibromomethane	5.34	93	1174	0.551	ppb		77

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

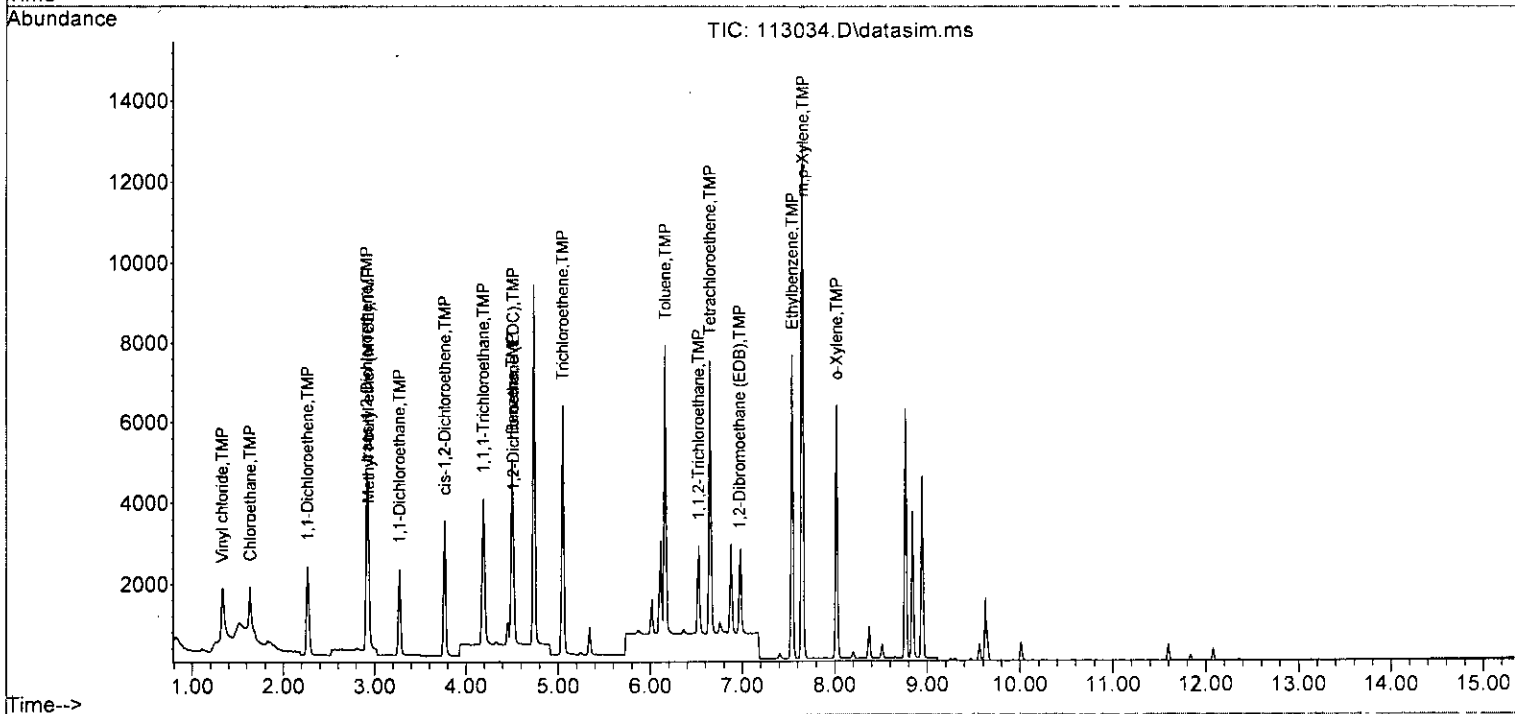
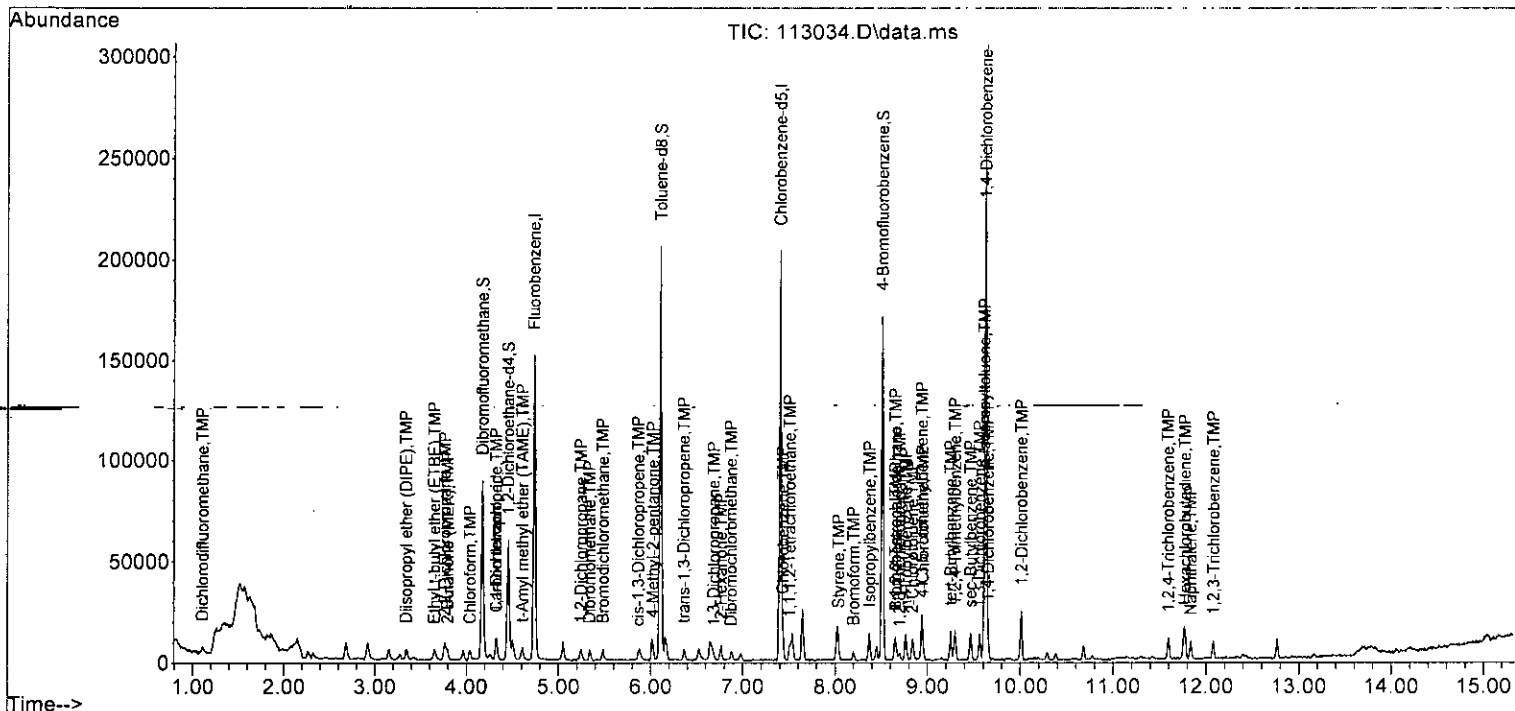
Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	1358	2.771	ppb	# 77
38) cis-1,3-Dichloropropene	5.86	75	2256	0.556	ppb	83
40] Toluene	6.16	92	3979	0.505	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	1755	0.441	ppb	88
42] 1,1,2-Trichloroethane	6.53	83	1124	0.506	ppb	98
43) 2-Hexanone	6.76	43	4000	2.524	ppb	95
44) 1,3-Dichloropropane	6.68	76	2184	0.577	ppb	93
45] Tetrachloroethene	6.65	164	2454	0.496	ppb	99
46) Dibromochloromethane	6.87	129	2235	0.469	ppb	96
47] 1,2-Dibromoethane (EDB)	6.97	107	1851	0.514	ppb	98
48) Chlorobenzene	7.43	112	5481	0.519	ppb	98
49] Ethylbenzene	7.54	91	7706	0.508	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	2232	0.483	ppb	87
51] m,p-Xylene	7.65	106	6952	1.022	ppb	99
52] o-Xylene	8.02	106	3259	0.511	ppb	99
53) Styrene	8.03	104	4674	0.492	ppb	92
54) Isopropylbenzene	8.37	105	7720	0.509	ppb	95
55) Bromoform	8.20	173	1618	0.478	ppb	87
58) n-Propylbenzene	8.77	91	8342	0.538	ppb	98
59) Bromobenzene	8.65	156	2760	0.489	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	6683	0.530	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.65	83	1576	0.522	ppb	88
62) 1,2,3-Trichloropropane	8.70	75	1475	0.636	ppb	89
63) 2-Chlorotoluene	8.84	91	4485	0.509	ppb	97
64) 4-Chlorotoluene	8.95	91	5624	0.527	ppb	84
65) tert-Butylbenzene	9.25	119	6719	0.502	ppb	96
66) 1,2,4-Trimethylbenzene	9.30	105	7096	0.523	ppb	97
67) sec-Butylbenzene	9.46	105	8310	0.505	ppb	97
68) p-Isopropyltoluene	9.61	119	8290	0.503	ppb	92
69) 1,3-Dichlorobenzene	9.56	146	5246	0.517	ppb	95
70) 1,4-Dichlorobenzene	9.65	146	5144	0.514	ppb	96
71) 1,2-Dichlorobenzene	10.01	146	5018	0.514	ppb	95
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.59	180	3298	0.481	ppb	99
74) Hexachlorobutadiene	11.77	225	2153	0.533	ppb	95
75) Naphthalene	11.83	128	6397	0.480	ppb	99
76) 1,2,3-Trichlorobenzene	12.08	180	2859	0.527	ppb	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCM513

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	100	0.02
3 S	Dibromofluoromethane	10.000	10.569	-5.7	100	0.00
4 TMP	Dichlorodifluoromethane	0.500	0.567	-13.4	100	0.00
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.500	0.564	-12.8	115	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	0.500	0.548	-9.6	103	0.00
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.83#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.500	0.527	-5.4	100	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.16#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.500	0.535	-7.0	98	0.01
17 TMP	trans-1,2-Dichloroethene	0.500	0.538	-7.6	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.500	0.506	-1.2	100	0.00
19 TMP	1,1-Dichloroethane	0.500	0.541	-8.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.500	0.515	-3.0	100	0.00
21 TMP	2,2-Dichloropropane	0.500	0.528	-5.6	85	0.00
22 TMP	cis-1,2-Dichloroethene	0.500	0.538	-7.6	97	0.00
23 TMP	Chloroform	0.500	0.538	-7.6	100	0.00
24 TMP	2-Butanone (MEK)	2.500	3.132	-25.3#	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.500	0.544	-8.8	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.500	0.535	-7.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.500	0.543	-8.6	100	0.00
28 TMP	1,1-Dichloropropene	0.500	0.516	-3.2	100	-0.01
29 TMP	Carbon tetrachloride	0.500	0.533	-6.6	100	-0.01
30 S	1,2-Dichloroethane-d4	10.000	10.716	-7.2	100	0.00
31 TMP	Benzene	0.500	0.560	-12.0	100	0.00
32 TMP	Trichloroethene	0.500	0.558	-11.6	100	0.00
33 TMP	1,2-Dichloropropane	0.500	0.607	-21.4#	100	0.00
34 TMP	Bromodichloromethane	0.500	0.597	-19.4	100	0.00
35 S	Toluene-d8	10.000	10.541	-5.4	100	0.00
36 TMP	Dibromomethane	0.500	0.551	-10.2	100	0.00
37 TMP	4-Methyl-2-pentanone	2.500	2.771	-10.8	100	0.01
38 TMP	cis-1,3-Dichloropropene	0.500	0.556	-11.2	100	-0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.500	0.505	-1.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.500	0.441	11.8	100	0.00
42 TMP	1,1,2-Trichloroethane	0.500	0.506	-1.2	100	0.00
43 TMP	2-Hexanone	2.500	2.524	-1.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.500	0.577	-15.4	100	0.01
45 TMP Tetrachloroethene	0.500	0.496	0.8	100	0.00
46 TMP Dibromochloromethane	0.500	0.469	6.2	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.500	0.514	-2.8	100	0.00
48 TMP Chlorobenzene	0.500	0.519	-3.8	100	0.00
49 TMP Ethylbenzene	0.500	0.508	-1.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.500	0.483	3.4	100	0.00
51 TMP m,p-Xylene	1.000	1.022	-2.2	100	0.00
52 TMP o-Xylene	0.500	0.511	-2.2	100	0.00
53 TMP Styrene	0.500	0.492	1.6	100	0.00
54 TMP Isopropylbenzene	0.500	0.509	-1.8	100	0.00
55 TMP Bromoform	0.500	0.478	4.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.394	-3.9	100	0.00
58 TMP n-Propylbenzene	0.500	0.538	-7.6	100	0.00
59 TMP Bromobenzene	0.500	0.489	2.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.500	0.530	-6.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.500	0.522	-4.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.500	0.636	-27.2#	100	0.00
63 TMP 2-Chlorotoluene	0.500	0.509	-1.8	100	0.00
64 TMP 4-Chlorotoluene	0.500	0.527	-5.4	100	0.00
65 TMP tert-Butylbenzene	0.500	0.502	-0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.500	0.523	-4.6	100	0.00
67 TMP sec-Butylbenzene	0.500	0.505	-1.0	100	0.00
68 TMP p-Isopropyltoluene	0.500	0.503	-0.6	100	0.00
69 TMP 1,3-Dichlorobenzene	0.500	0.517	-3.4	100	0.00
70 TMP 1,4-Dichlorobenzene	0.500	0.514	-2.8	100	0.00
71 TMP 1,2-Dichlorobenzene	0.500	0.514	-2.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.500	0.481	3.8	100	0.00
74 TMP Hexachlorobutadiene	0.500	0.533	-6.6	100	0.00
75 TMP Naphthalene	0.500	0.480	4.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.500	0.527	-5.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	123466	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	111984	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	68714	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	41571	10.569	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery = 105.70%				
30) 1,2-Dichloroethane-d4	4.45	102	7900	10.716	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery = 107.20%				
35) Toluene-d8	6.11	98	116986	10.541	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery = 105.40%				
57) 4-Bromofluorobenzene	8.51	95	43280	10.394	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery = 103.90%				
<b>Target Compounds</b>							
2) Ethanol	2.35	45	207	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	4074	0.567	ppb		92
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.33	62	2598m	0.564	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.64	64	1353m	0.548	ppb		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	2.35	45	207	No Calib			
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.26	96	1612m	0.527	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.93	73	3934m	0.535	ppb		
17] trans-1,2-Dichloroethene	2.91	96	1822m	0.538	ppb		
18) Diisopropyl ether (DIPE)	3.34	45	3332	0.506	ppb		90
19] 1,1-Dichloroethane	3.27	63	2275	0.541	ppb		100
20) Ethyl t-butyl ether (E...)	3.65	87	1826	0.515	ppb		93
21) 2,2-Dichloropropane	3.76	77	2458m	0.528	ppb		
22] cis-1,2-Dichloroethene	3.77	96	1968m	0.538	ppb		
23) Chloroform	4.04	83	2934	0.538	ppb		97
24) 2-Butanone (MEK)	3.79	43	3573	3.132	ppb		84
25) t-Amyl methyl ether (T...)	4.61	73	3699	0.544	ppb		98
26] 1,2-Dichloroethane (EDC)	4.52	62	2080	0.535	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	3136	0.543	ppb		100
28) 1,1-Dichloropropene	4.32	75	2041	0.516	ppb		89
29) Carbon tetrachloride	4.32	117	3273	0.533	ppb		100
31] Benzene	4.50	78	5597	0.560	ppb		100
32] Trichloroethene	5.05	95	2096m	0.558	ppb		
33) 1,2-Dichloropropane	5.24	63	1606	0.607	ppb	#	81
34) Bromodichloromethane	5.48	83	2332	0.597	ppb		73
36) Dibromomethane	5.34	93	1174	0.551	ppb		77

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

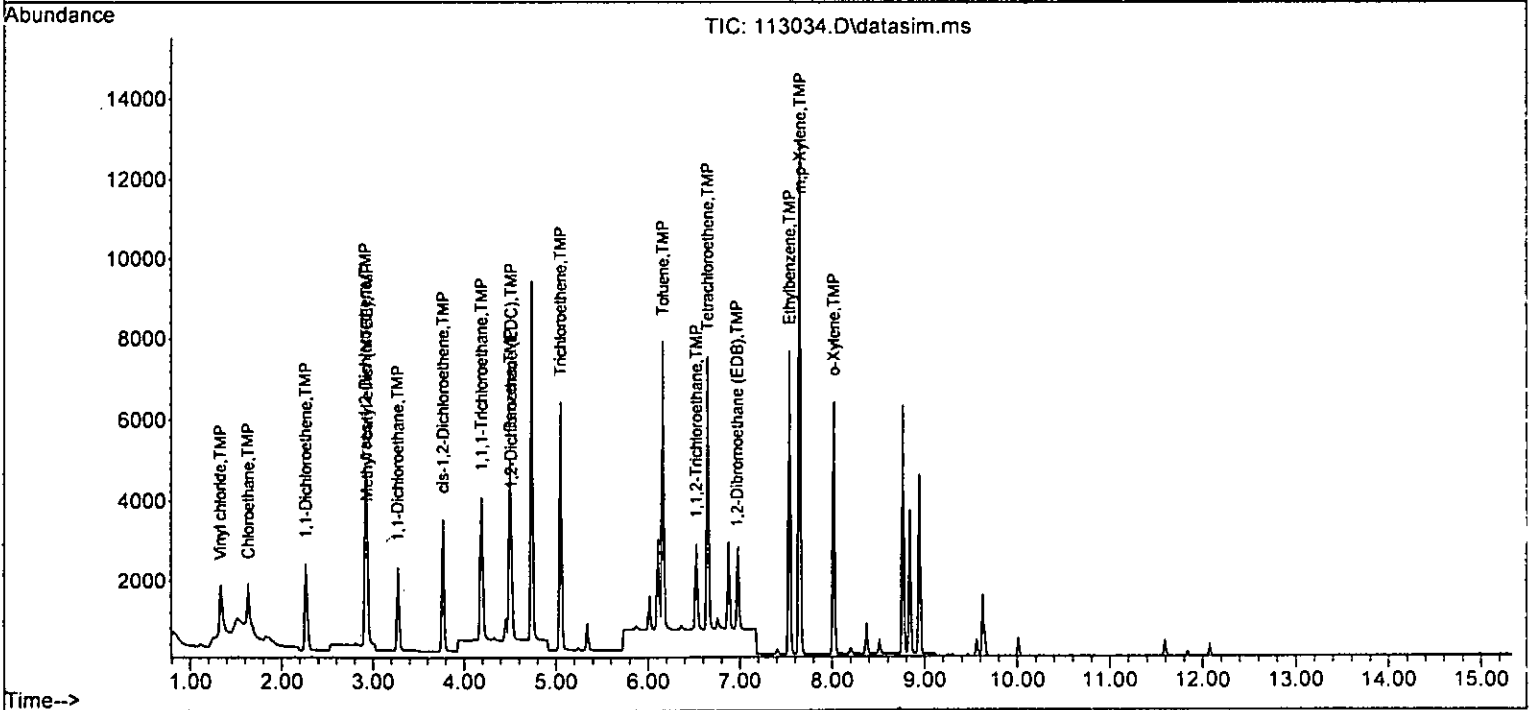
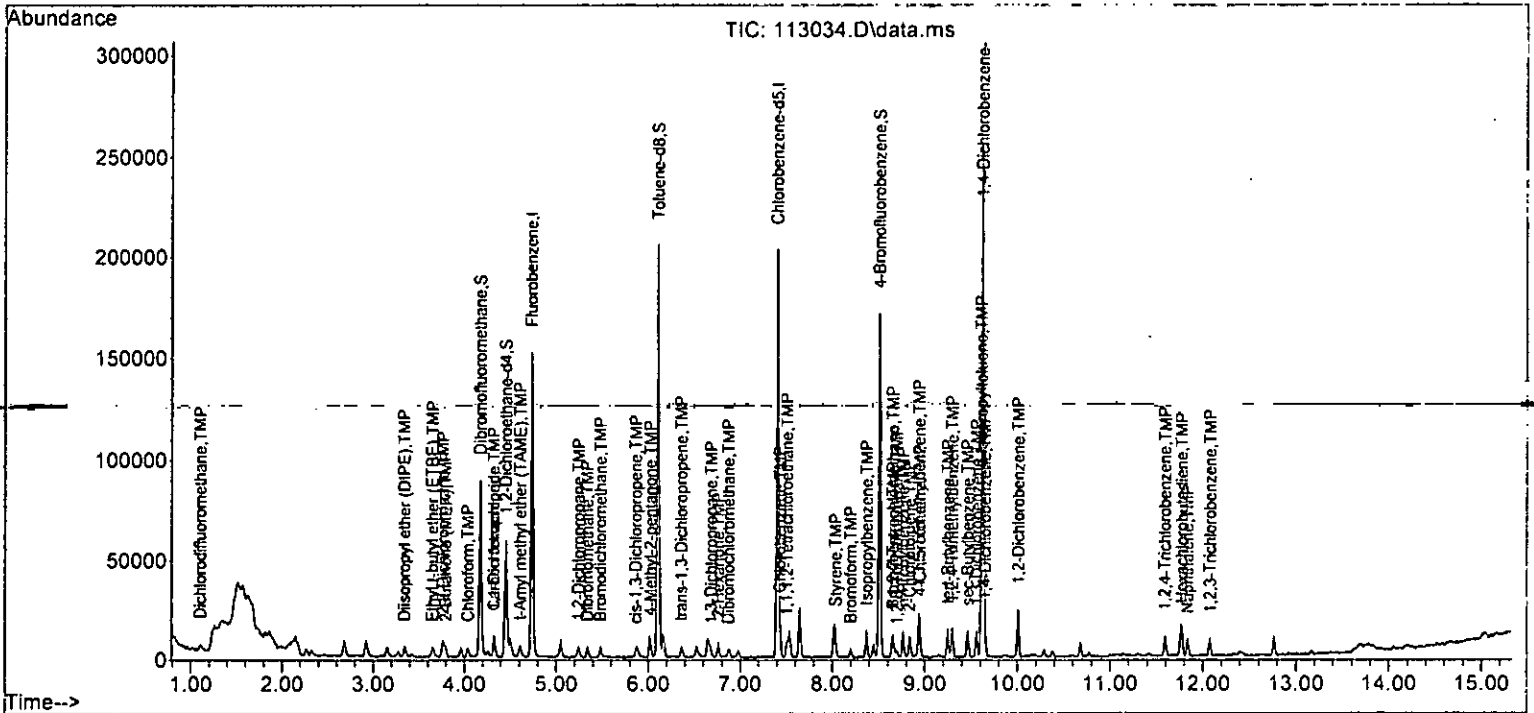
Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	1358	2.771	ppb	# 77
38) cis-1,3-Dichloropropene	5.86	75	2256	0.556	ppb	83
40] Toluene	6.16	92	3979	0.505	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	1755	0.441	ppb	88
42] 1,1,2-Trichloroethane	6.53	83	1124	0.506	ppb	98
43) 2-Hexanone	6.76	43	4000	2.524	ppb	95
44) 1,3-Dichloropropane	6.68	76	2184	0.577	ppb	93
45] Tetrachloroethene	6.65	164	2454	0.496	ppb	99
46) Dibromochloromethane	6.87	129	2235	0.469	ppb	96
47] 1,2-Dibromoethane (EDB)	6.97	107	1851	0.514	ppb	98
48) Chlorobenzene	7.43	112	5481	0.519	ppb	98
49] Ethylbenzene	7.54	91	7706	0.508	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	2232	0.483	ppb	87
51] m,p-Xylene	7.65	106	6952	1.022	ppb	99
52] o-Xylene	8.02	106	3259	0.511	ppb	99
53) Styrene	8.03	104	4674	0.492	ppb	92
54) Isopropylbenzene	8.37	105	7720	0.509	ppb	95
55) Bromoform	8.20	173	1618	0.478	ppb	87
58) n-Propylbenzene	8.77	91	8342	0.538	ppb	98
59) Bromobenzene	8.65	156	2760	0.489	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	6683	0.530	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.65	83	1576	0.522	ppb	88
62) 1,2,3-Trichloropropane	8.70	75	1475	0.636	ppb	89
63) 2-Chlorotoluene	8.84	91	4485	0.509	ppb	97
64) 4-Chlorotoluene	8.95	91	5624	0.527	ppb	84
65) tert-Butylbenzene	9.25	119	6719	0.502	ppb	96
66) 1,2,4-Trimethylbenzene	9.30	105	7096	0.523	ppb	97
67) sec-Butylbenzene	9.46	105	8310	0.505	ppb	97
68) p-Isopropyltoluene	9.61	119	8290	0.503	ppb	92
69) 1,3-Dichlorobenzene	9.56	146	5246	0.517	ppb	95
70) 1,4-Dichlorobenzene	9.65	146	5144	0.514	ppb	96
71) 1,2-Dichlorobenzene	10.01	146	5018	0.514	ppb	95
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.59	180	3298	0.481	ppb	99
74) Hexachlorobutadiene	11.77	225	2153	0.533	ppb	95
75) Naphthalene	11.83	128	6397	0.480	ppb	99
76) 1,2,3-Trichlorobenzene	12.08	180	2859	0.527	ppb	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	100	0.02
3 S	Dibromofluoromethane	0.319	0.337	-5.6	100	0.00
4 TMP	Dichlorodifluoromethane	0.582	0.660	-13.4	100	0.00
5 TMP	Chloromethane	0.386	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.373	0.421	-12.9	115	0.00
7 TMP	Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.200	0.219	-9.5	103	0.00
9 TMP	Trichlorofluoromethane	1.015	0.000#	100.0#	0#	-1.83#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP	Acetone	0.022	0.000#	100.0#	0#	-2.32#
12 TMP	1,1-Dichloroethene	0.248	0.261	-5.2	100	0.00
13 TMP	Hexane	0.236	0.000#	100.0#	0#	-3.16#
14 TMP	Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.022	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.596	0.637	-6.9	98	0.01
17 TMP	trans-1,2-Dichloroethene	0.274	0.295	-7.7	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.533	0.540	-1.3	100	0.00
19 TMP	1,1-Dichloroethane	0.341	0.369	-8.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.287	0.296	-3.1	100	0.00
21 TMP	2,2-Dichloropropane	0.297	0.398	-34.0#	85	0.00
22 TMP	cis-1,2-Dichloroethene	0.296	0.319	-7.8	97	0.00
23 TMP	Chloroform	0.441	0.475	-7.7	100	0.00
24 TMP	2-Butanone (MEK)	0.102	0.116	-13.7	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.551	0.599	-8.7	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.334	0.337	-0.9	100	0.00
27 TMP	1,1,1-Trichloroethane	0.468	0.508	-8.5	100	0.00
28 TMP	1,1-Dichloropropene	0.320	0.331	-3.4	100	-0.01
29 TMP	Carbon tetrachloride	0.497	0.530	-6.6	100	-0.01
30 S	1,2-Dichloroethane-d4	0.060	0.064	-6.7	100	0.00
31 TMP	Benzene	0.849	0.907	-6.8	100	0.00
32 TMP	Trichloroethene	0.304	0.340	-11.8	100	0.00
33 TMP	1,2-Dichloropropane	0.189	0.260	-37.6#	100	0.00
34 TMP	Bromodichloromethane	0.316	0.378	-19.6	100	0.00
35 S	Toluene-d8	0.899	0.948	-5.5	100	0.00
36 TMP	Dibromomethane	0.173	0.190	-9.8	100	0.00
37 TMP	4-Methyl-2-pentanone	0.040	0.044	-10.0	100	0.01
38 TMP	cis-1,3-Dichloropropene	0.329	0.365	-10.9	100	-0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.719	0.711	1.1	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.356	0.313	12.1	100	0.00
42 TMP	1,1,2-Trichloroethane	0.204	0.201	1.5	100	0.00
43 TMP	2-Hexanone	0.142	0.143	-0.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.390	-15.4	100	0.01
45 TMP Tetrachloroethene	0.443	0.438	1.1	100	0.00
46 TMP Dibromochloromethane	0.425	0.399	6.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.331	1.2	100	0.00
48 TMP Chlorobenzene	0.943	0.979	-3.8	100	0.00
49 TMP Ethylbenzene	1.560	1.376	11.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.399	3.4	100	0.00
51 TMP m,p-Xylene	0.718	0.621	13.5	100	0.00
<del>52 TMP o-Xylene</del>	<del>0.611</del>	<del>0.582</del>	<del>4.7</del>	<del>100</del>	<del>0.00</del>
53 TMP Styrene	0.848	0.835	1.5	100	0.00
54 TMP Isopropylbenzene	1.353	1.379	-1.9	100	0.00
55 TMP Bromoform	0.302	0.289	4.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.630	-4.0	100	0.00
58 TMP n-Propylbenzene	2.257	2.428	-7.6	100	0.00
59 TMP Bromobenzene	0.821	0.803	2.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.945	-5.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.459#	-6.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.429#	-27.3#	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.305	-1.8	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.637	-5.5	100	0.00
65 TMP tert-Butylbenzene	1.946	1.956	-0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.065	-4.6	100	0.00
67 TMP sec-Butylbenzene	2.396	2.419	-1.0	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.413	-0.5	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.527	-3.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.497	-2.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.461	-2.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.997	0.960	3.7	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.627	-6.6	100	0.00
75 TMP Naphthalene	1.938	1.862	3.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.832	-5.4	100	0.00

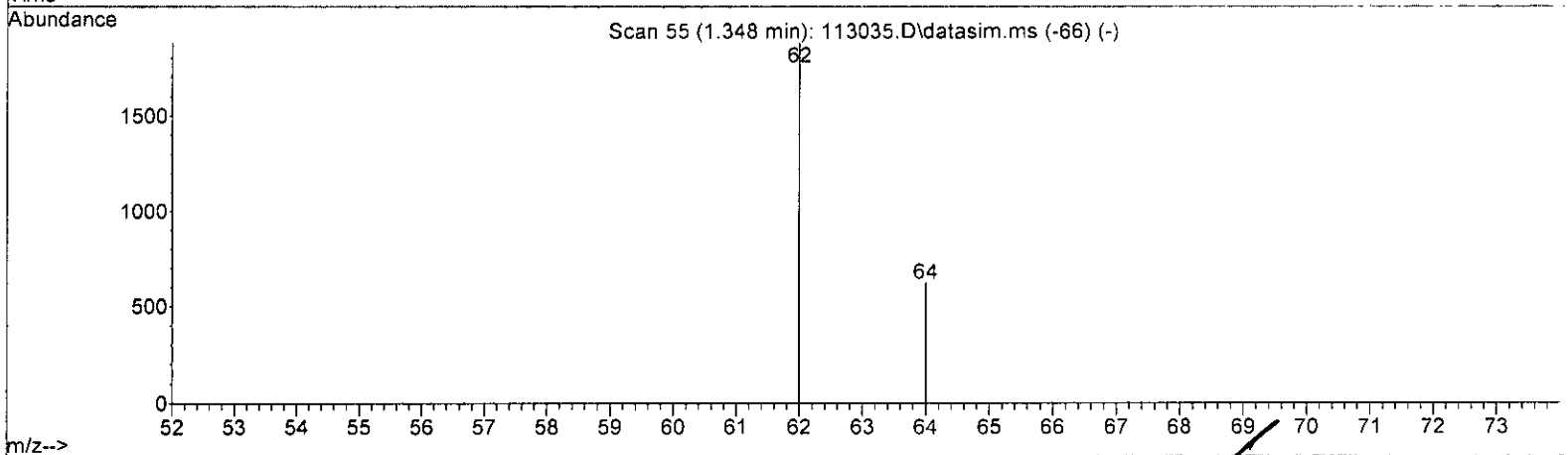
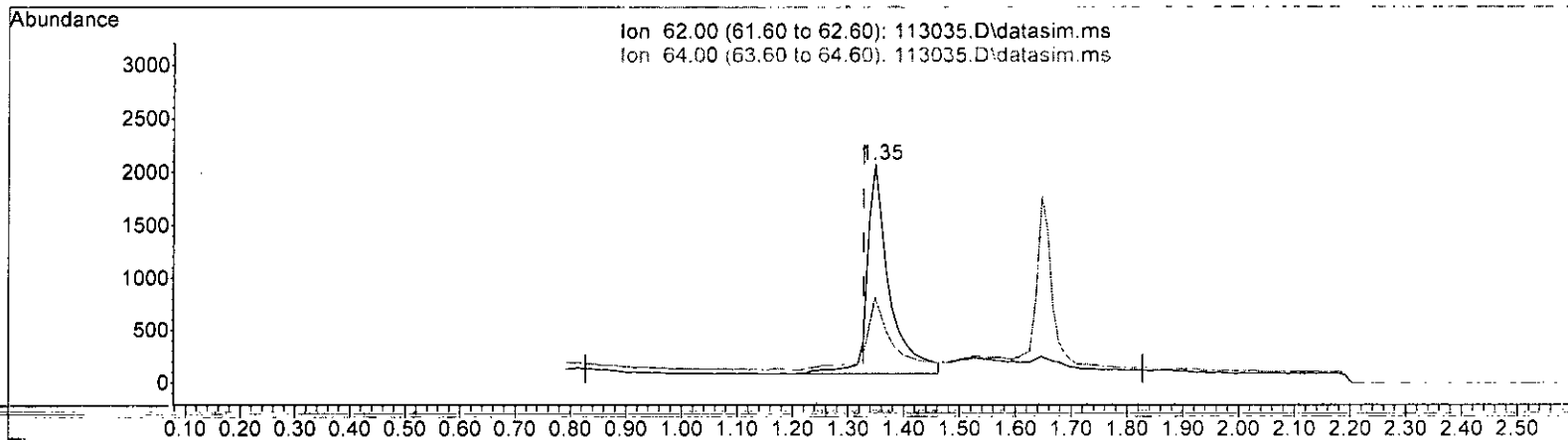
(#) = Out of Range

SPCC's out = 11 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(6) Vinyl chloride (TMP)

1.348min (+ 0.020) 1.125 ppb

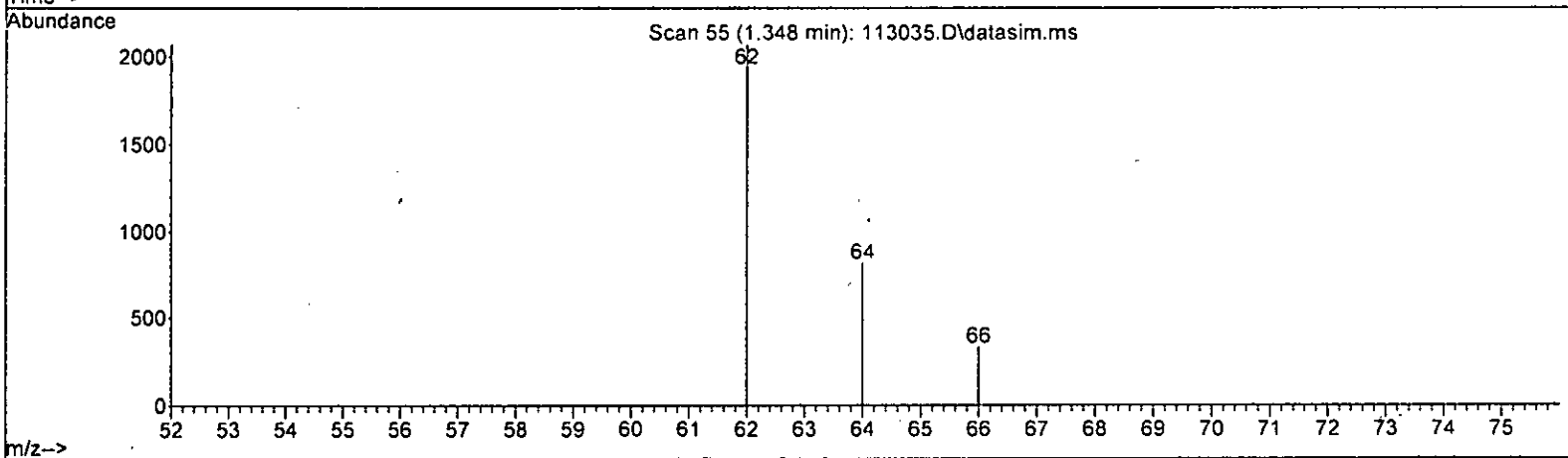
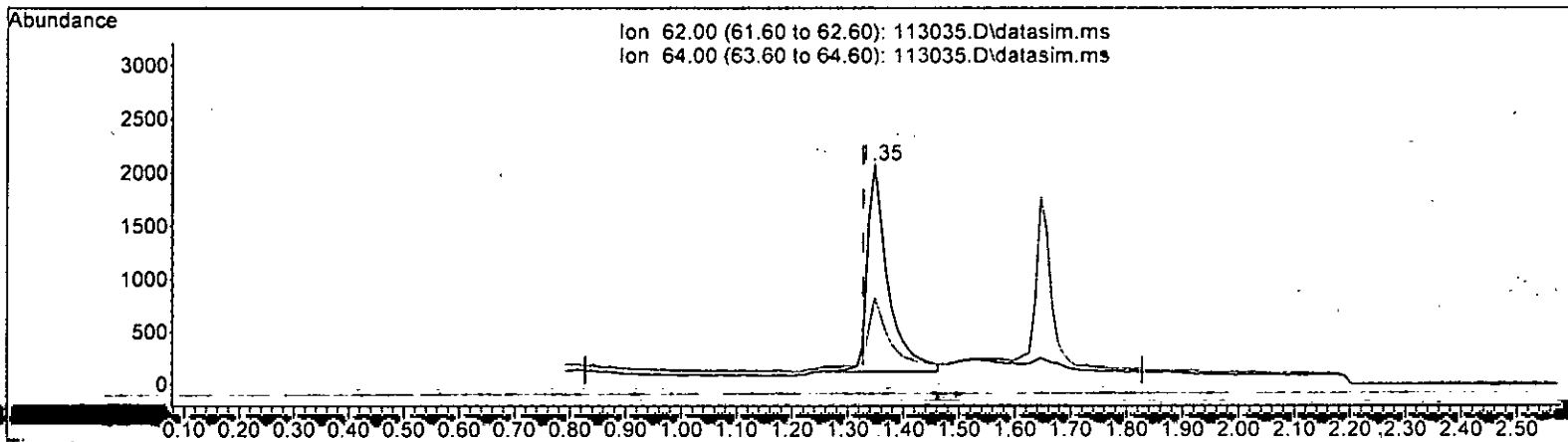
response	5553	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	34.96
0.00	0.00	0.00
0.00	0.00	0.00

*MR.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



TIC: 113035.D\data.ms

(6) Vinyl chloride (TMP)

1.348min (+ 0.020) 1.016 ppb m

response 5016

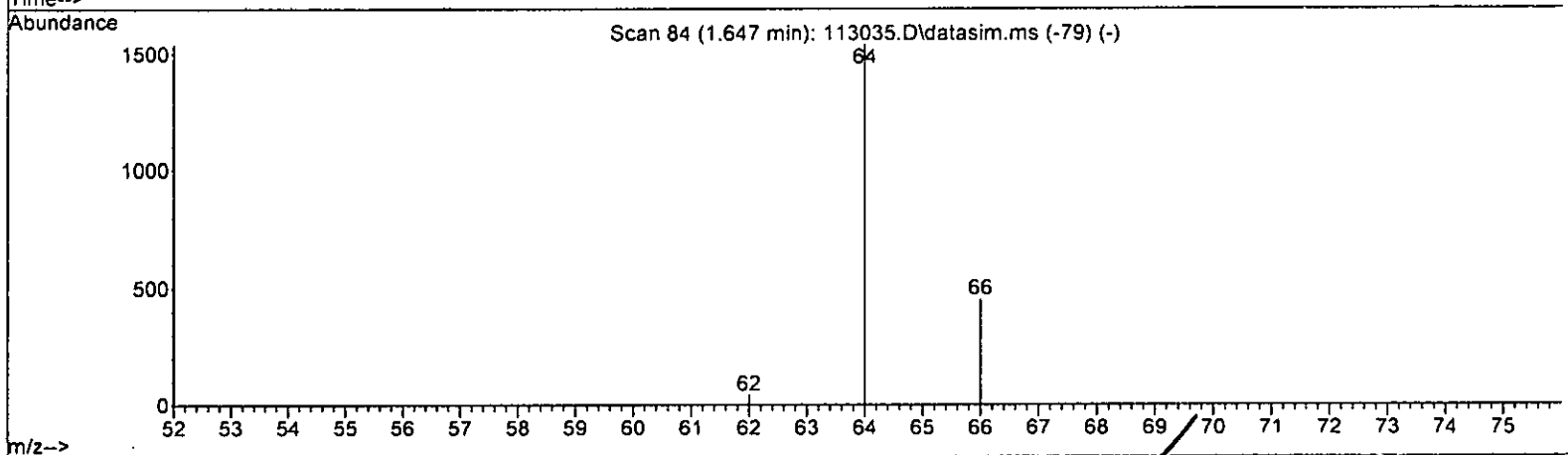
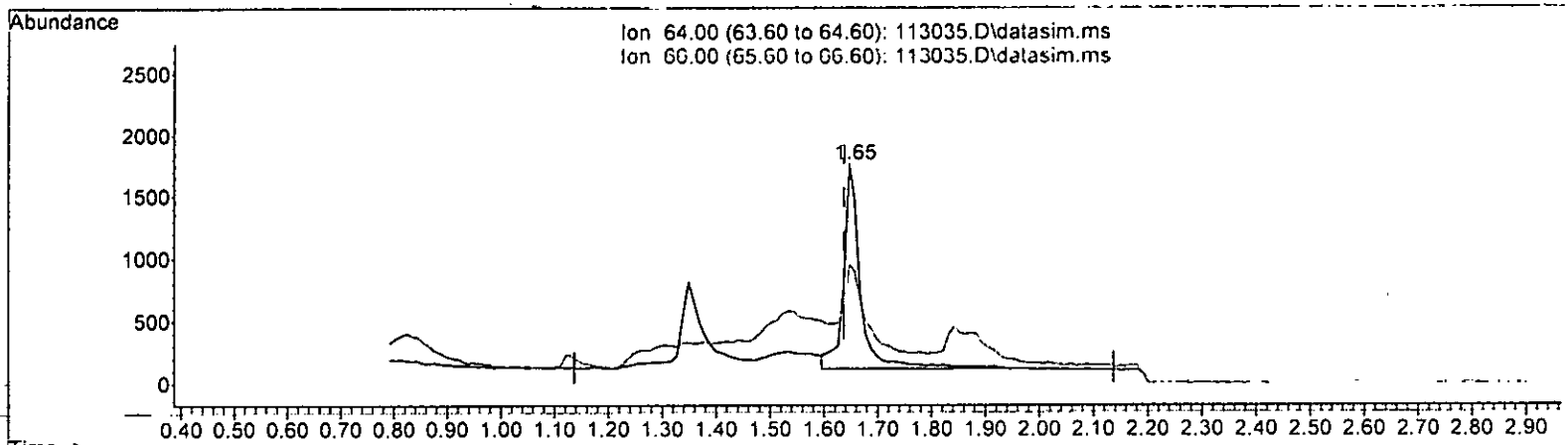
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	39.48
0.00	0.00	0.00
0.00	0.00	0.00

m/12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(8) Chloroethane (TMP)

1.647min (+ 0.010) 1.383 ppb

response	3656
Ion	Exp% Act%
64.00	100.00 100.00
66.00	36.40 47.11
0.00	0.00 0.00
0.00	0.00 0.00

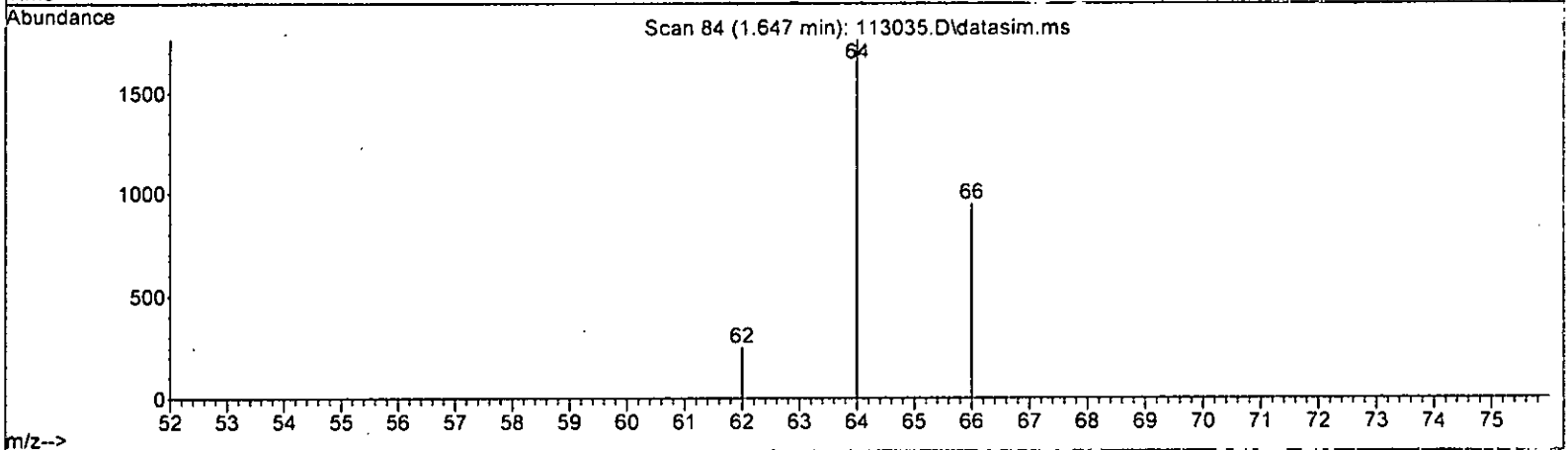
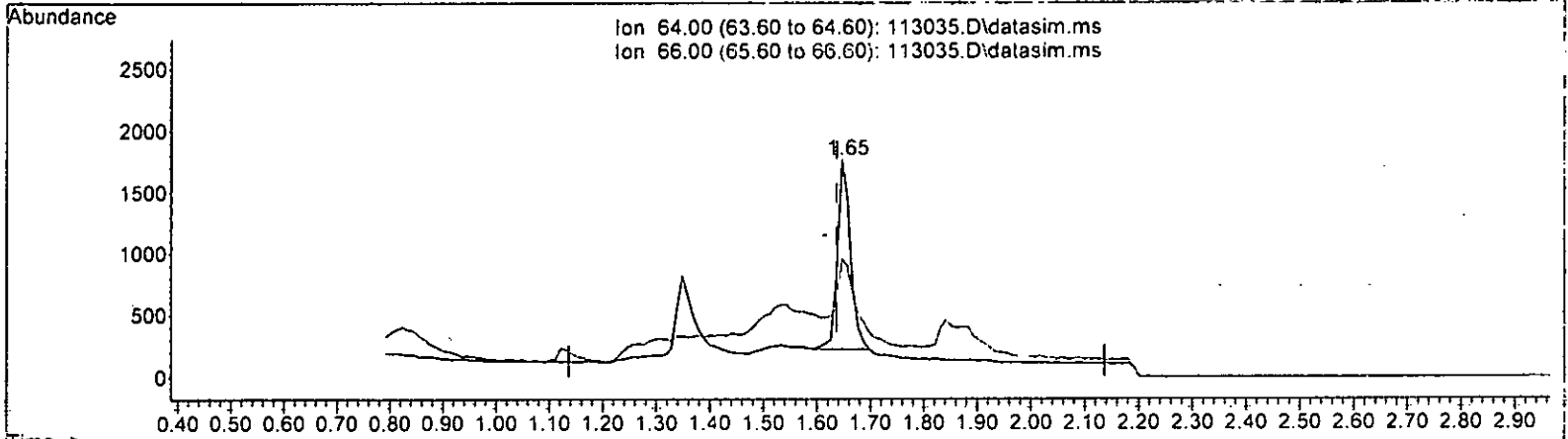
*m 12.1*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(8) Chloroethane (TMP)  
 1.647min (+ 0.010) 0.983 ppb m

response 2598

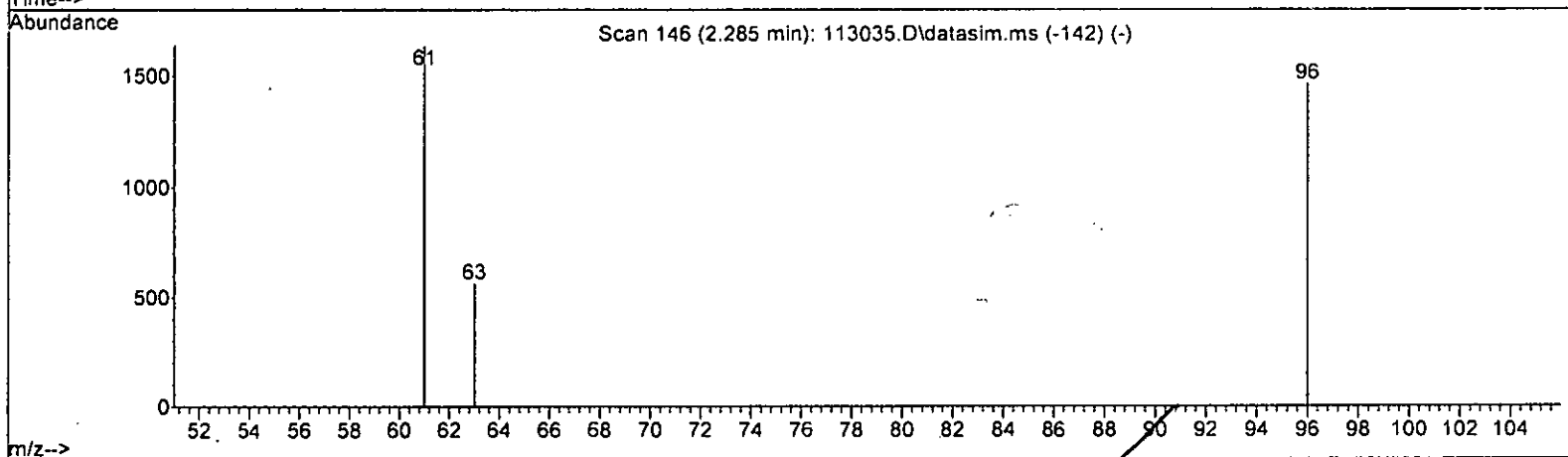
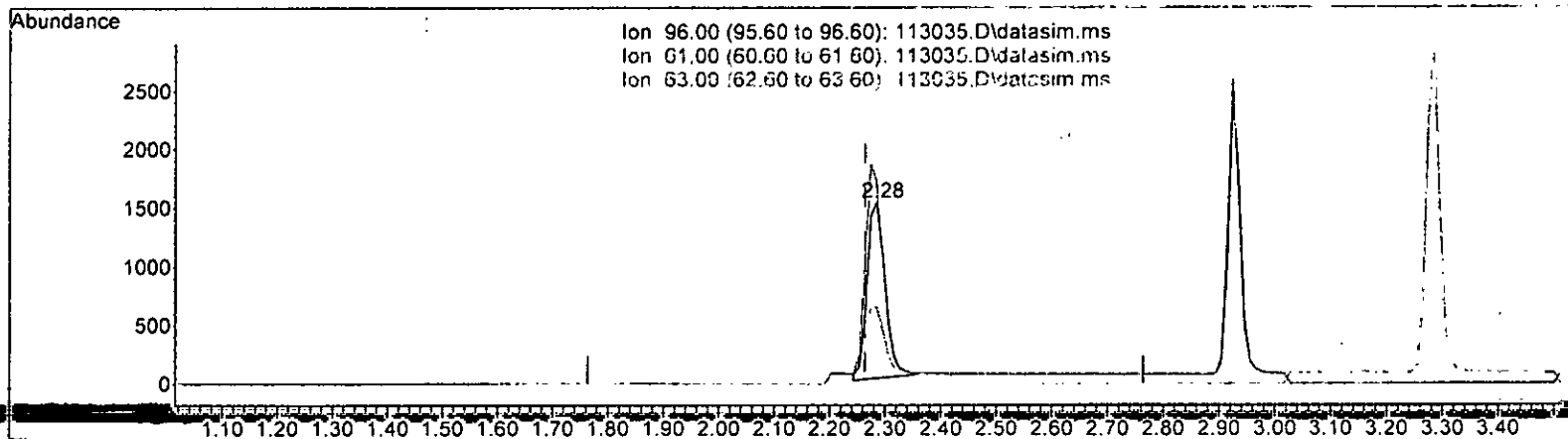
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	53.85
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

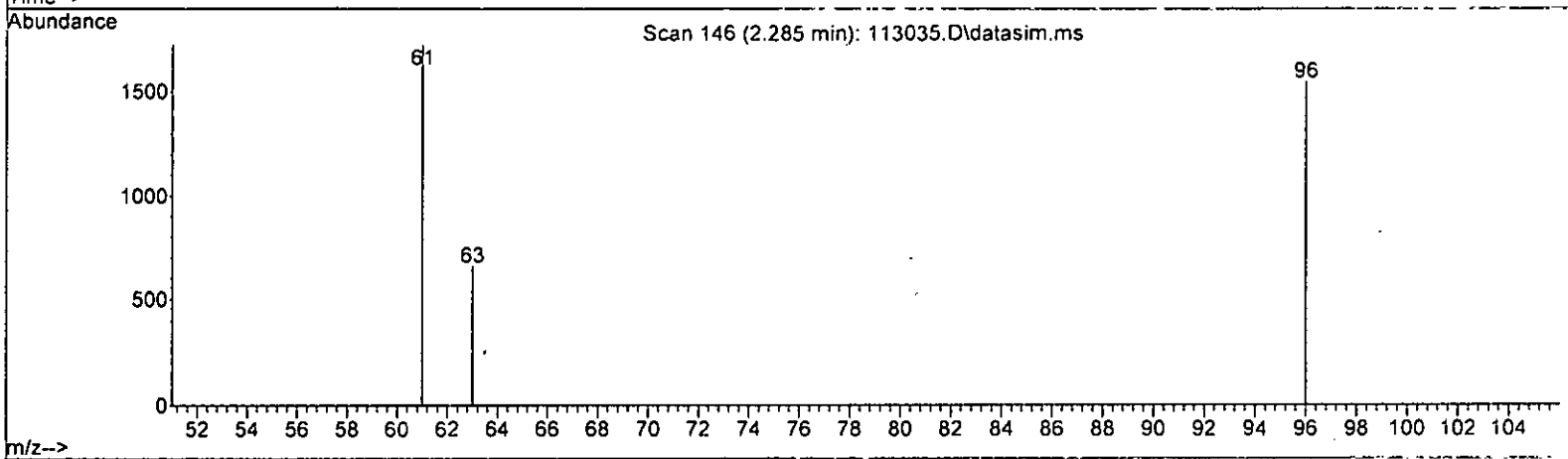
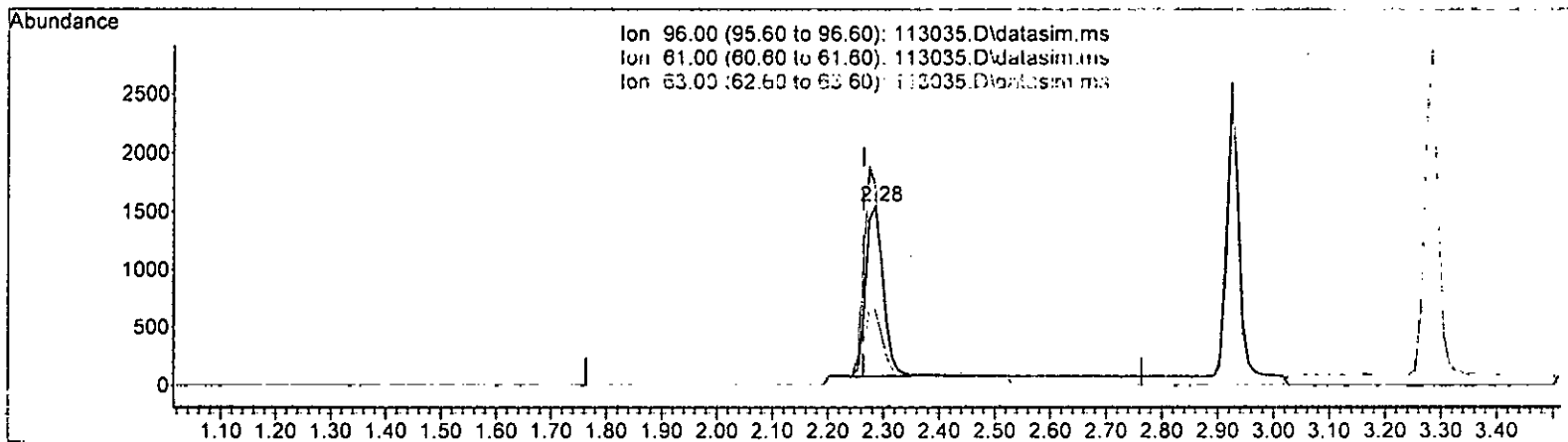
*W 12.1*

(12) 1,1-Dichloroethene (TMP)		
2.285min (+ 0.021)	1.033 ppb	
response	3389	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	112.11
63.00	41.10	38.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.285min (+ 0.021) 0.978 ppb m

response 3209

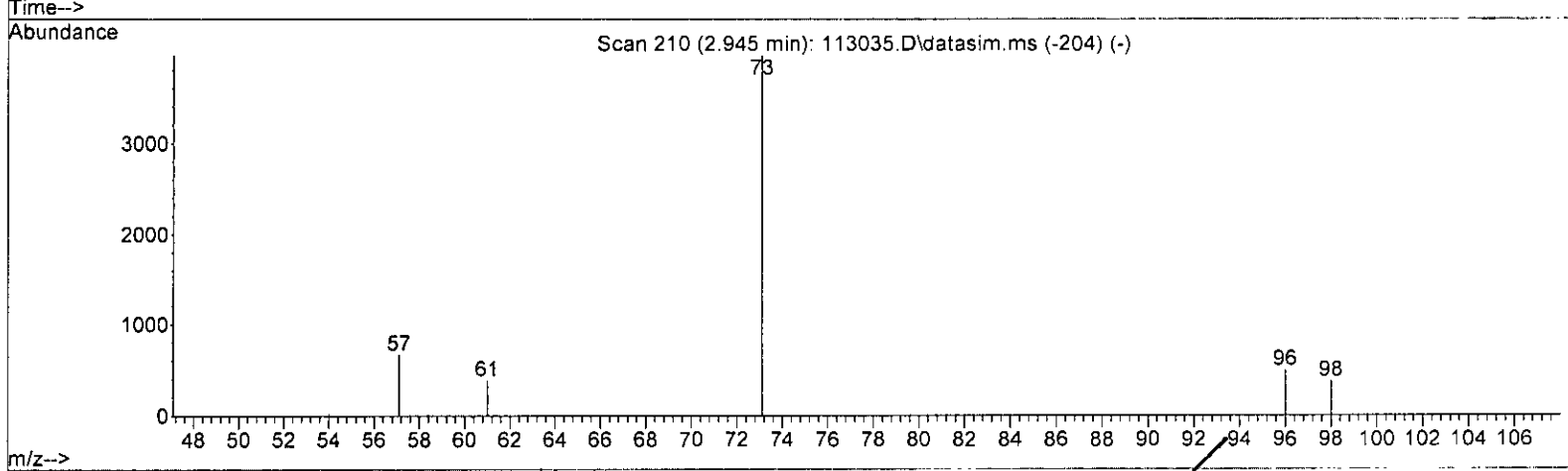
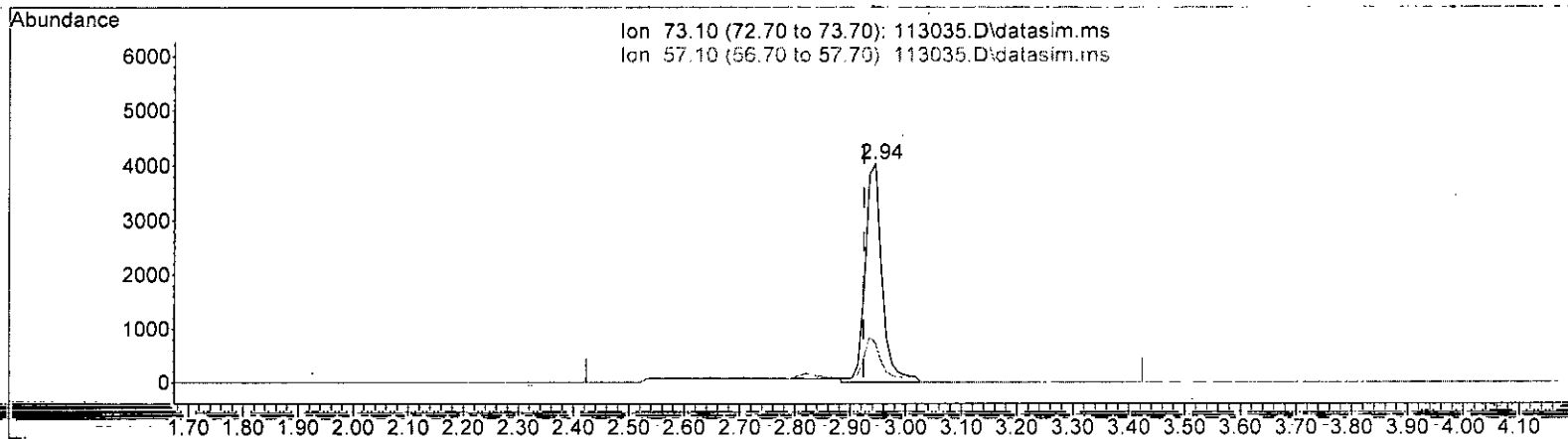
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	111.54
63.00	41.10	42.54
0.00	0.00	0.00

*LM 12/1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.945min (+ 0.021) 1.086 ppb

response 8562

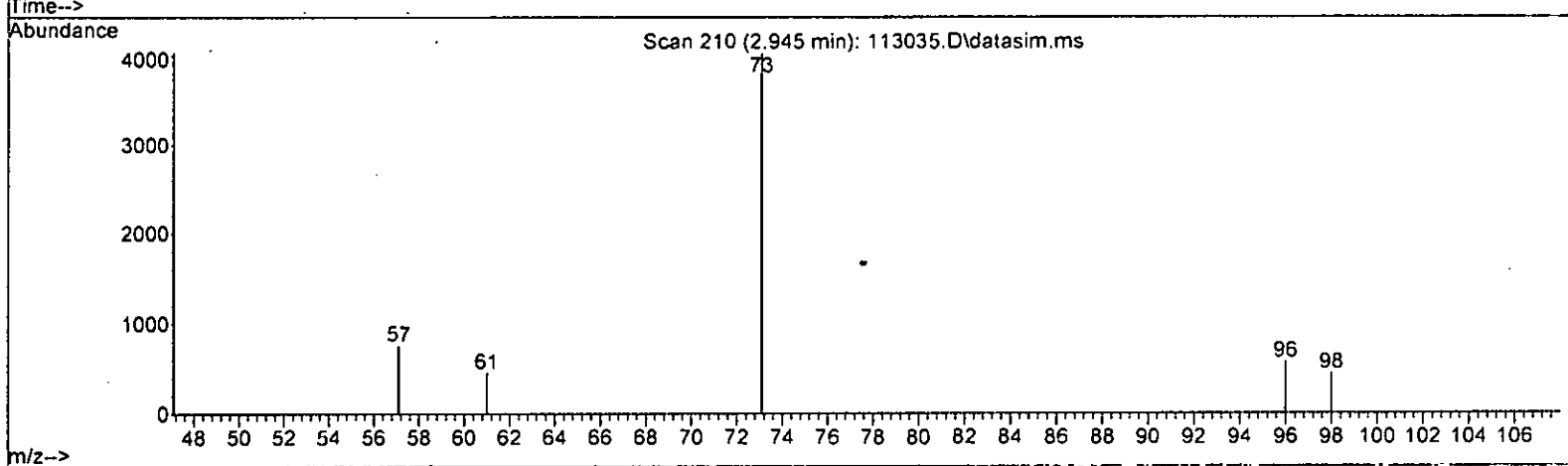
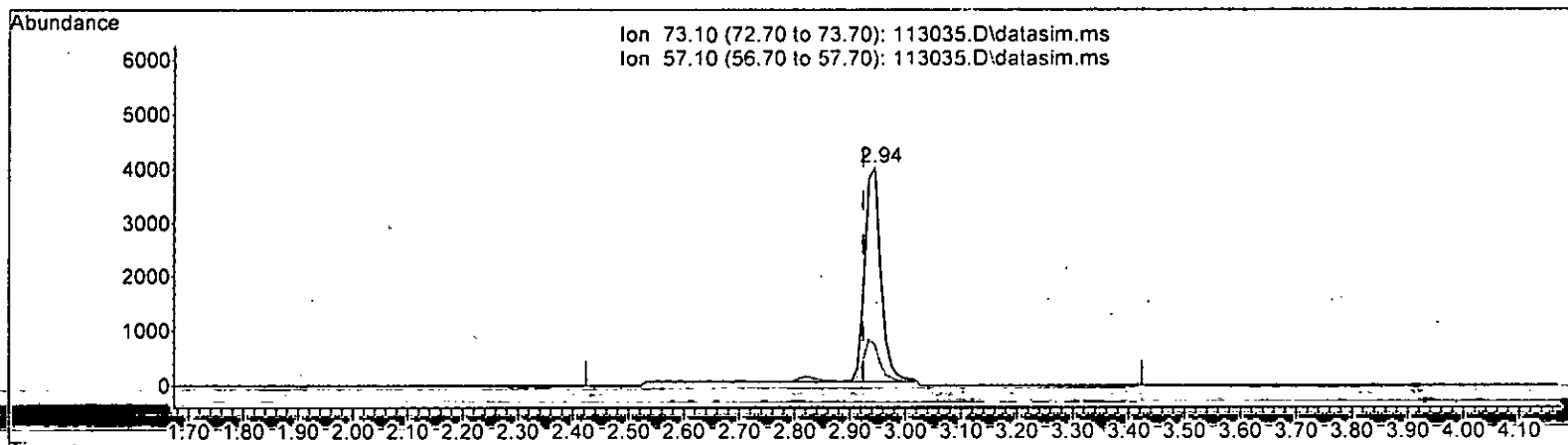
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	18.70
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.945min (+ 0.021) 1.017 ppb m

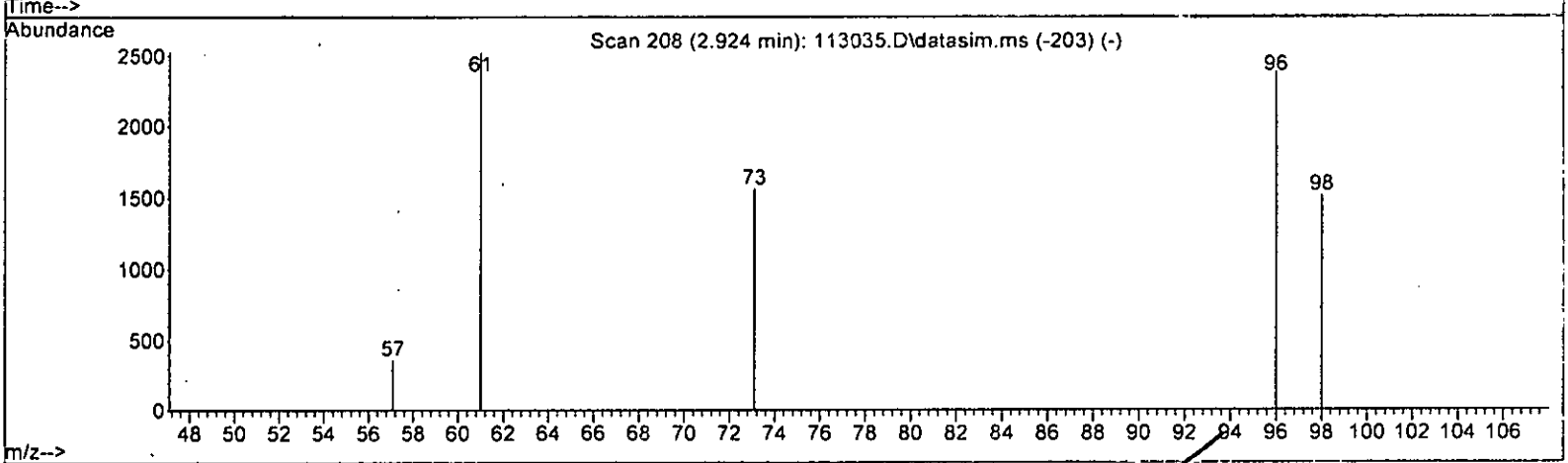
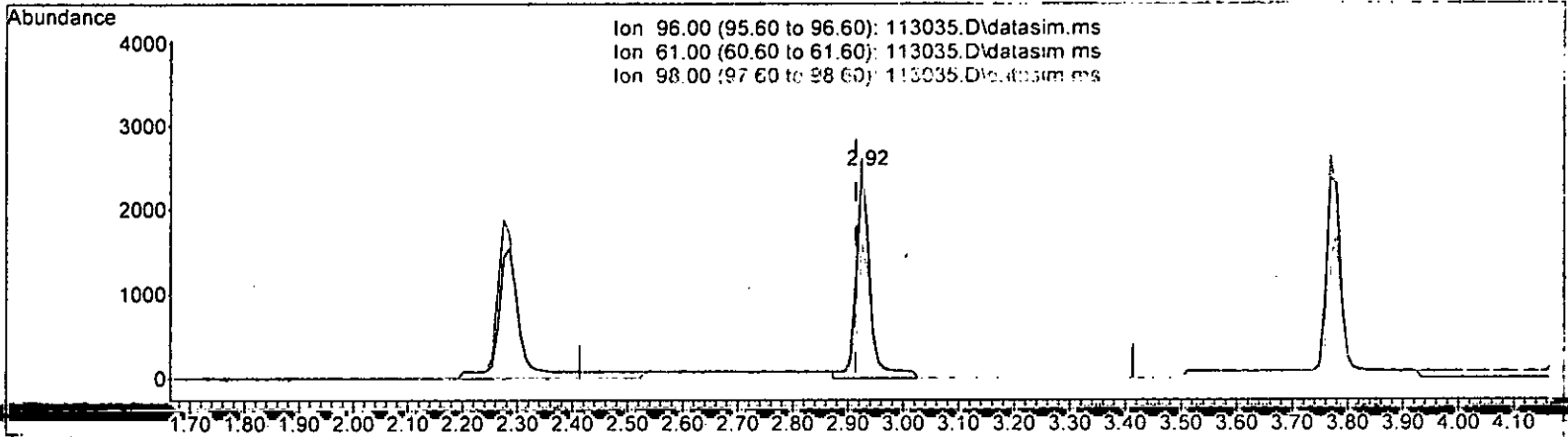
m 12.1

response	8013		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	19.50	18.70	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 1.179 ppb

response 4278

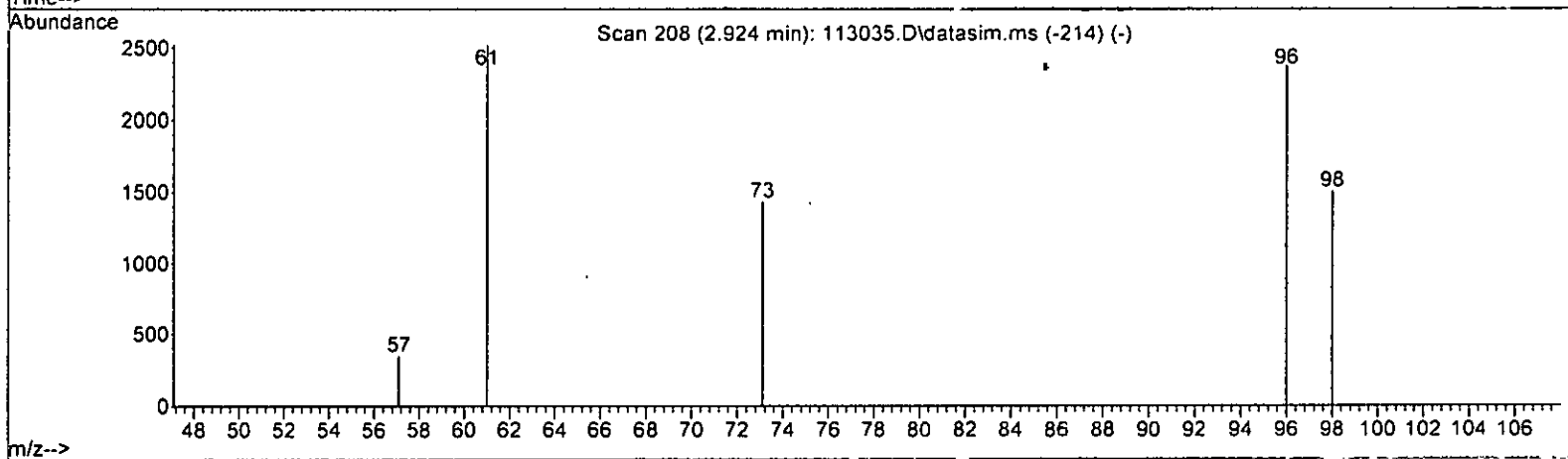
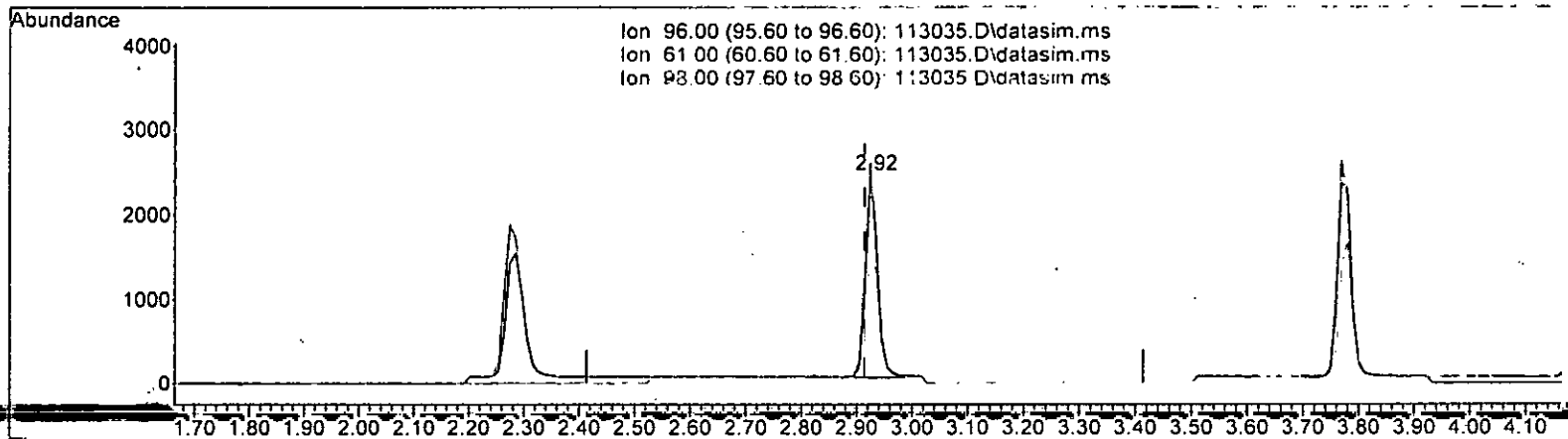
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	105.65
98.00	62.70	64.12
0.00	0.00	0.00

*W 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *m 12.1*

2.924min (+ 0.010) 1.011 ppb m

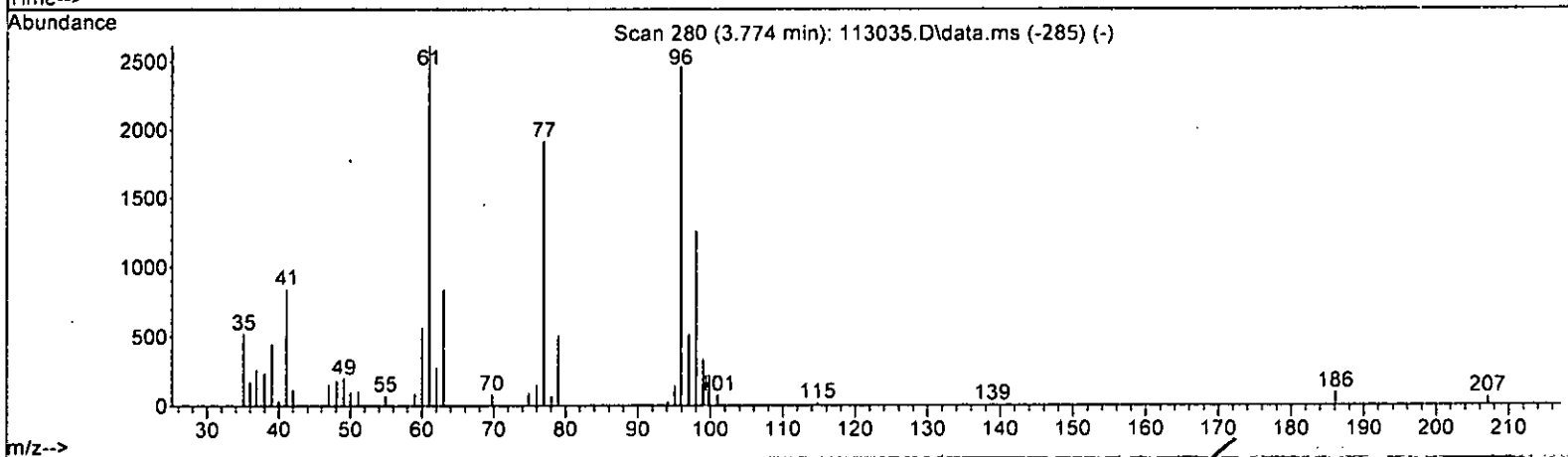
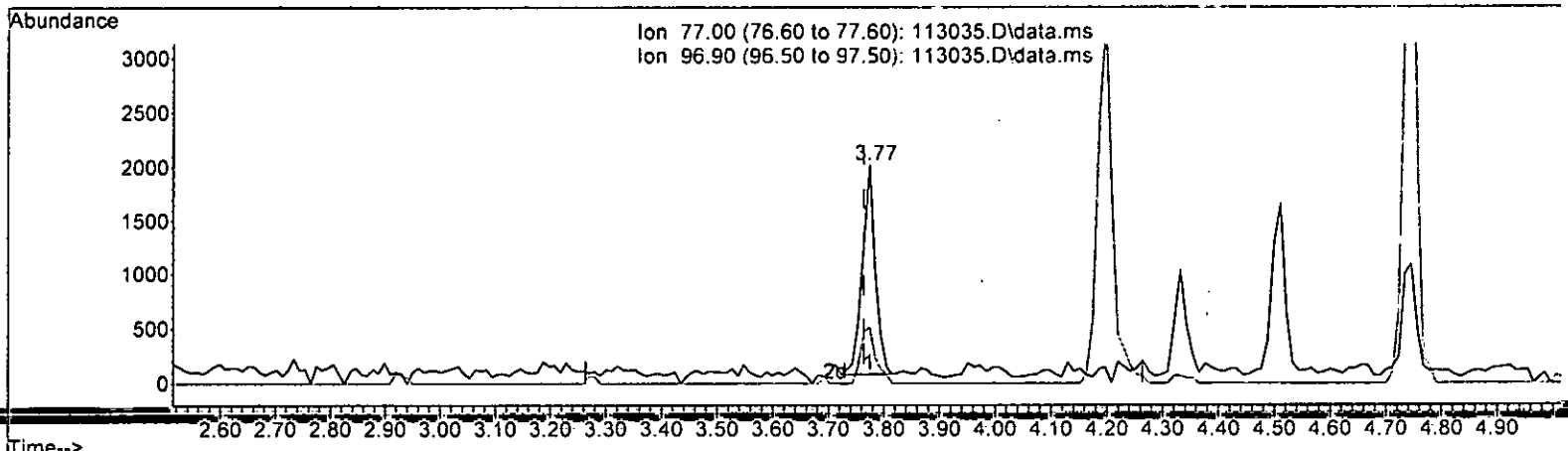
response 3671

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	105.65
98.00	62.70	64.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(21) 2,2-Dichloropropane (TMP) *m 12.1*

3.774min (+ 0.010) 0.697 ppb

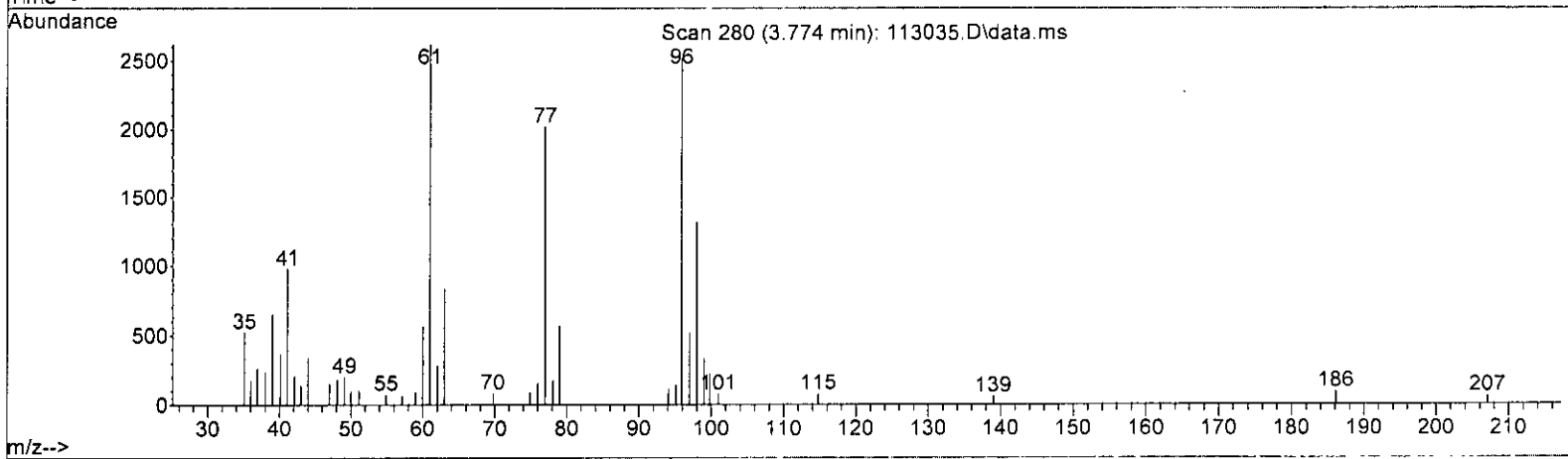
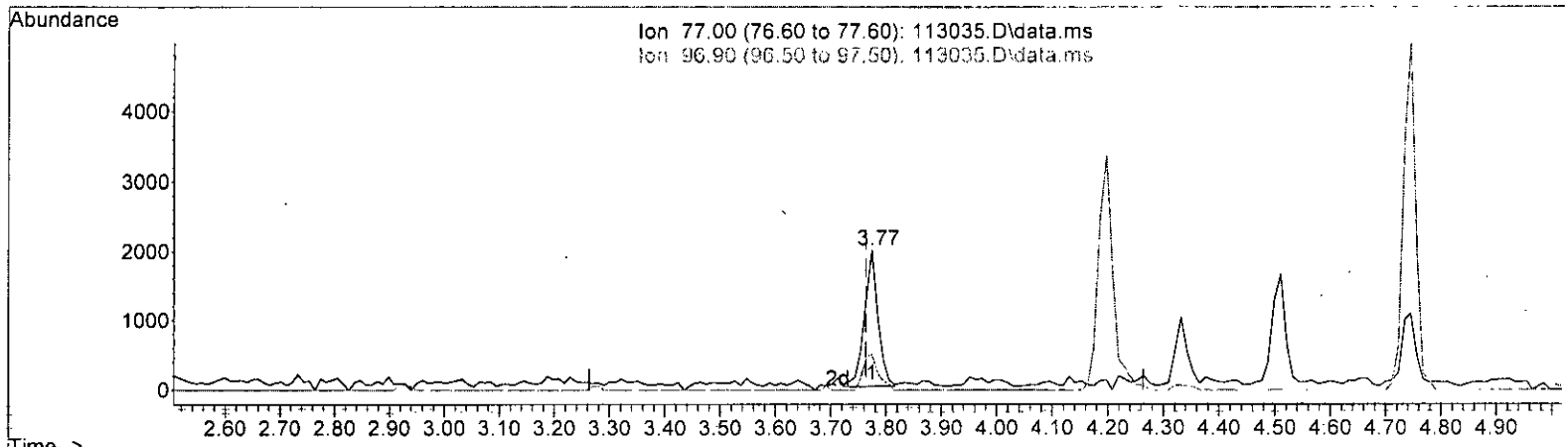
response	3165	
Ion	Exp%	Act%
77.00	100.00	100.00
96.90	32.00	26.44
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(21) 2,2-Dichloropropane (TMP)  
 3.774min (+ 0.010) 0.744 ppb m

response 3313

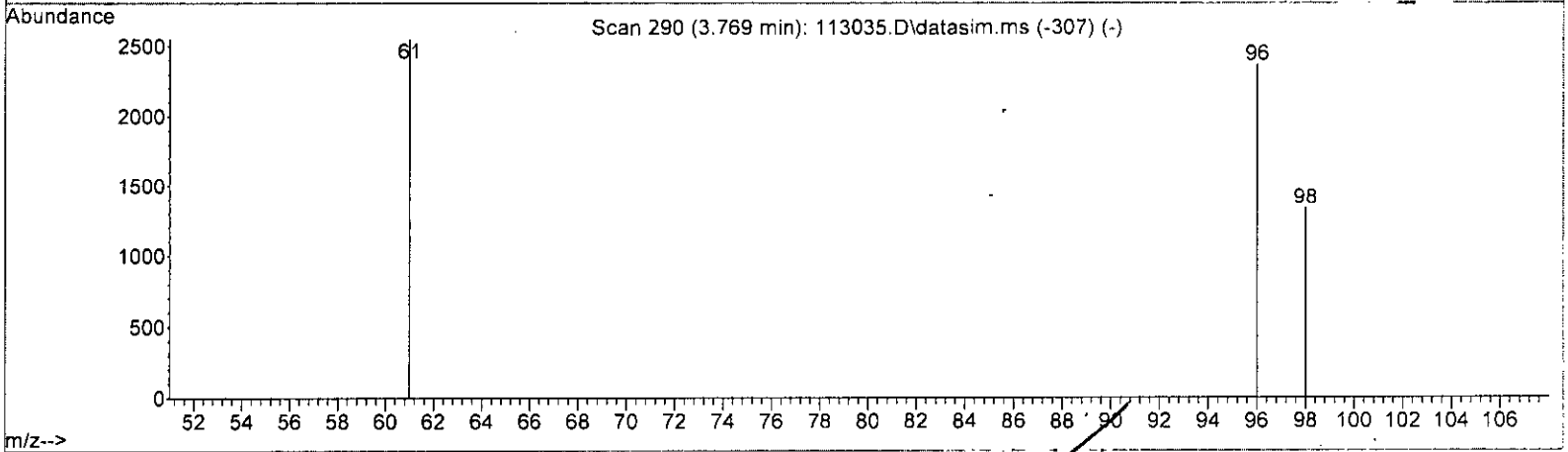
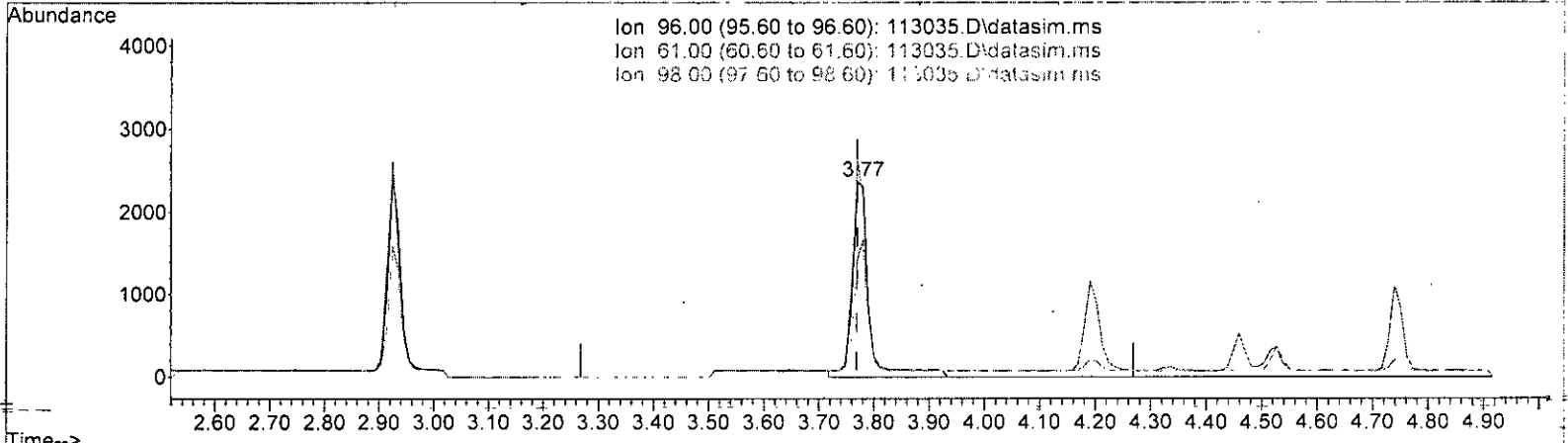
Ion	Exp%	Act%
77.00	100.00	100.00
96.90	32.00	25.31
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(22) cis-1,2-Dichloroethene (TMP)

3.769min (-0.000) 1.256 ppb

response 4924

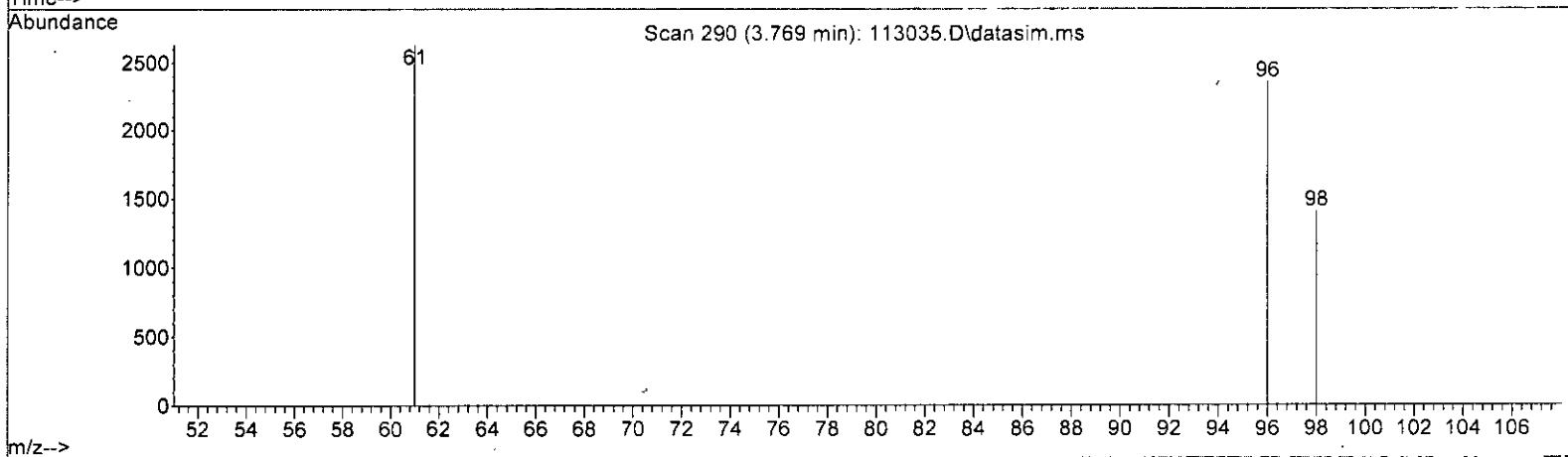
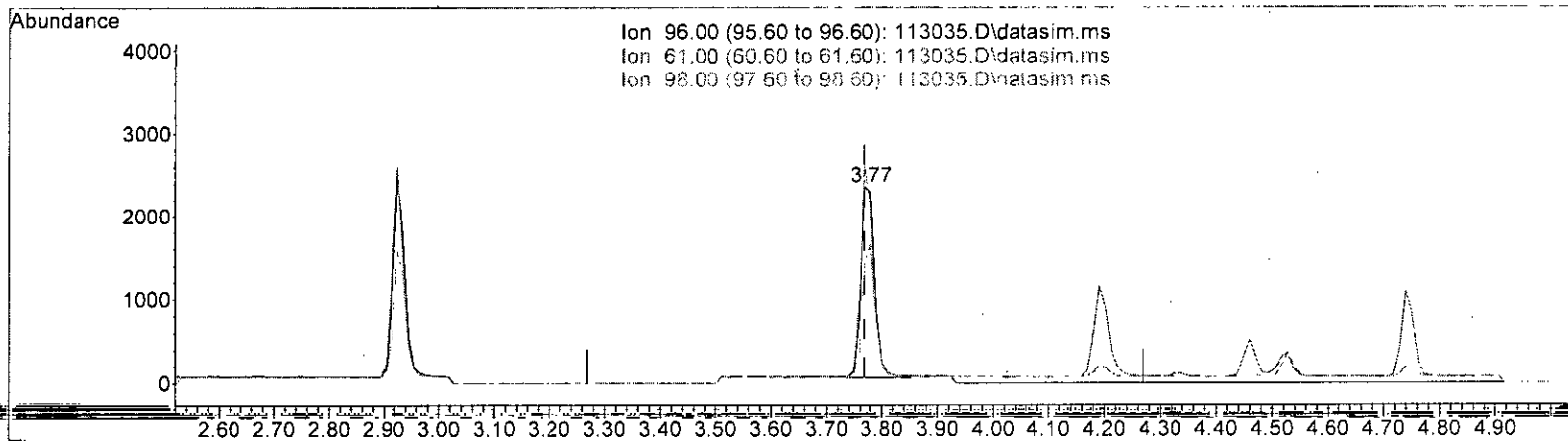
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	97.00	108.09
98.00	68.10	56.80
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(22) cis-1,2-Dichloroethene (TMP) *m 12.1*

3.769min (-0.000) 1.022 ppb m

response	4007
Ion	Exp% Act%
96.00	100.00 100.00
61.00	97.00 111.35
98.00	68.10 59.68
0.00	0.00 0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP	Ethanol	-1.000	0.000	0.0	100	0.01
3 S	Dibromofluoromethane	10.000	9.993	0.1	100	0.00
4 TMP	Dichlorodifluoromethane	1.000	0.908	9.2	100	0.00
5 TMP	Chloromethane	1.000	1.050	-5.0	100	0.02
6 TMP	Vinyl chloride	1.000	1.016	-1.6	111	0.02
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	1.000	0.983	1.7	100	0.00
9 TMP	Trichlorofluoromethane	1.000	0.953	4.7	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.01
11 TMP	Acetone	5.000	6.397	-27.9#	100	0.02
12 TMP	1,1-Dichloroethene	1.000	0.978	2.2	101	0.02
13 TMP	Hexane	1.000	0.987	1.3	100	0.00
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	5.000	6.000	-20.0	100	0.02
16 TMP	Methyl t-butyl ether (MTBE)	1.000	1.017	-1.7	101	0.02
17 TMP	trans-1,2-Dichloroethene	1.000	1.011	-1.1	100	0.01
18 TMP	Diisopropyl ether (DIPE)	1.000	0.974	2.6	100	0.00
19 TMP	1,1-Dichloroethane	1.000	1.020	-2.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	1.000	0.987	1.3	100	0.00
21 TMP	2,2-Dichloropropane	1.000	0.744	25.6#	105	0.01
22 TMP	cis-1,2-Dichloroethene	1.000	1.022	-2.2	101	0.00
23 TMP	Chloroform	1.000	0.999	0.1	100	0.00
24 TMP	2-Butanone (MEK)	5.000	4.929	1.4	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	1.000	1.011	-1.1	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	1.000	1.069	-6.9	100	0.01
27 TMP	1,1,1-Trichloroethane	1.000	1.011	-1.1	100	0.00
28 TMP	1,1-Dichloropropene	1.000	1.060	-6.0	100	0.00
29 TMP	Carbon tetrachloride	1.000	0.972	2.8	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.708	2.9	100	0.00
31 TMP	Benzene	1.000	1.067	-6.7	100	0.00
32 TMP	Trichloroethene	1.000	1.116	-11.6	107	0.00
33 TMP	1,2-Dichloropropane	1.000	0.950	5.0	100	0.00
34 TMP	Bromodichloromethane	1.000	0.970	3.0	100	0.00
35 S	Toluene-d8	10.000	9.534	4.7	100	0.00
36 TMP	Dibromomethane	1.000	1.038	-3.8	100	0.01
37 TMP	4-Methyl-2-pentanone	5.000	4.373	12.5	100	0.01
38 TMP	cis-1,3-Dichloropropene	1.000	1.021	-2.1	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	1.000	1.053	-5.3	100	0.00
41 TMP	trans-1,3-Dichloropropene	1.000	1.007	-0.7	100	0.00
42 TMP	1,1,2-Trichloroethane	1.000	1.049	-4.9	100	0.00
43 TMP	2-Hexanone	5.000	5.569	-11.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	1.000	1.074	-7.4	100	0.01
45 TMP Tetrachloroethene	1.000	1.036	-3.6	100	0.00
46 TMP Dibromochloromethane	1.000	1.042	-4.2	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	1.000	1.078	-7.8	100	0.01
48 TMP Chlorobenzene	1.000	1.017	-1.7	100	0.00
49 TMP Ethylbenzene	1.000	1.080	-8.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	1.000	0.996	0.4	100	0.00
51 TMP m,p-Xylene	2.000	2.173	-8.7	100	0.00
52 TMP o-Xylene	1.000	1.075	-7.5	100	0.00
53 TMP Styrene	1.000	1.068	-6.8	100	0.00
54 TMP Isopropylbenzene	1.000	1.056	-5.6	100	0.00
55 TMP Bromoform	1.000	0.998	0.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.101	-1.0	100	0.00
58 TMP n-Propylbenzene	1.000	1.095	-9.5	100	0.00
59 TMP Bromobenzene	1.000	1.067	-6.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.000	1.046	-4.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	1.000	1.120	-12.0	100	0.00
62 TMP 1,2,3-Trichloropropane	1.000	1.022	-2.2	100	0.00
63 TMP 2-Chlorotoluene	1.000	1.095	-9.5	100	0.00
64 TMP 4-Chlorotoluene	1.000	1.067	-6.7	100	0.00
65 TMP tert-Butylbenzene	1.000	1.055	-5.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.000	1.035	-3.5	100	0.00
67 TMP sec-Butylbenzene	1.000	1.029	-2.9	100	0.00
68 TMP p-Isopropyltoluene	1.000	1.022	-2.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.000	1.072	-7.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.000	1.030	-3.0	100	0.00
71 TMP 1,2-Dichlorobenzene	1.000	1.075	-7.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	1.000	1.092	-9.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	1.000	1.008	-0.8	100	0.00
74 TMP Hexachlorobutadiene	1.000	1.005	-0.5	100	0.00
75 TMP Naphthalene	1.000	0.976	2.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	1.000	1.044	-4.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.01
3 S Dibromofluoromethane	0.319	0.318	0.3	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.529	9.1	100	0.00
5 TMP Chloromethane	0.386	0.405	-4.9	100	0.02
6 TMP Vinyl chloride	0.373	0.379	-1.6	111	0.02
7 TMP Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.200	0.196	2.0	100	0.00
9 TMP Trichlorofluoromethane	1.015	0.968	4.6	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.01
11 TMP Acetone	0.022	0.023	-4.5	100	0.02
12 TMP 1,1-Dichloroethene	0.248	0.243	2.0	101	0.02
13 TMP Hexane	0.236	0.269	-14.0	100	0.00
14 TMP Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.022	0.027#	-22.7#	100	0.02
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.606	-1.7	101	0.02
17 TMP trans-1,2-Dichloroethene	0.274	0.277	-1.1	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.520	2.4	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.348	-2.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.283	1.4	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.250	15.8	105	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.303	-2.4	101	0.00
23 TMP Chloroform	0.441	0.441	0.0	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.099	2.9	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.557	-1.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.331	0.9	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.473	-1.1	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.339	-5.9	100	0.00
29 TMP Carbon tetrachloride	0.497	0.483	2.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP Benzene	0.849	0.854	-0.6	100	0.00
32 TMP Trichloroethene	0.304	0.339	-11.5	107	0.00
33 TMP 1,2-Dichloropropane	0.189	0.187	1.1	100	0.00
34 TMP Bromodichloromethane	0.316	0.307	2.8	100	0.00
35 S Toluene-d8	0.899	0.857	4.7	100	0.00
36 TMP Dibromomethane	0.173	0.179	-3.5	100	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.035	12.5	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.335	-1.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.736	-2.4	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.358	-0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.207	-1.5	100	0.00
43 TMP 2-Hexanone	0.142	0.158	-11.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.363	-7.4	100	0.01
45 TMP Tetrachloroethene	0.443	0.455	-2.7	100	0.00
46 TMP Dibromochloromethane	0.425	0.443	-4.2	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.342	-2.1	100	0.01
48 TMP Chlorobenzene	0.943	0.959	-1.7	100	0.00
49 TMP Ethylbenzene	1.560	1.395	10.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.411	0.5	100	0.00
51 TMP m,p-Xylene	0.718	0.623	13.2	100	0.00
52 TMP o-Xylene	0.611	0.598	2.1	100	0.00
53 TMP Styrene	0.848	0.907	-7.0	100	0.00
54 TMP Isopropylbenzene	1.353	1.429	-5.6	100	0.00
55 TMP Bromoform	0.302	0.302	0.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	0.606	0.612	-1.0	100	0.00
58 TMP n-Propylbenzene	2.257	2.471	-9.5	100	0.00
59 TMP Bromobenzene	0.821	0.877	-6.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.921	-4.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.485#	-12.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.345#	-2.4	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.404	-9.5	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.656	-6.7	100	0.00
65 TMP tert-Butylbenzene	1.946	2.053	-5.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.045	-3.5	100	0.00
67 TMP sec-Butylbenzene	2.396	2.465	-2.9	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.452	-2.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.583	-7.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.500	-3.0	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.529	-7.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.099	-8.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.006	-0.9	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.591	-0.5	100	0.00
75 TMP Naphthalene	1.938	1.891	2.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.824	-4.4	100	0.00

(#) = Out of Range

SPCC's out = 6 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.75	96	132290	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	109564	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	67837	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	42113	9.993	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.90%	
30) 1,2-Dichloroethane-d4	4.45	102	7668	9.708	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	97.10%	
35) Toluene-d8	6.11	98	113372	9.534	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	95.30%	
57) 4-Bromofluorobenzene	8.51	95	41524	10.101	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	101.00%	
Target Compounds							
							Qvalue
2) Ethanol	2.34	45	156	No Calib			
4) Dichlorodifluoromethane	1.12	85	6995	0.908	ppb		92
5) Chloromethane	1.27	50	5360	1.050	ppb		73
6] Vinyl chloride	1.35	62	5016m	1.016	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.65	64	2598m	0.983	ppb		
9) Trichlorofluoromethane	1.84	101	12806	0.953	ppb		92
10) 2-Propanol	2.34	45	156	No Calib			
11) Acetone	2.34	58	1548	6.397	ppb	#	74
12] 1,1-Dichloroethene	2.28	96	3209m	0.978	ppb		
13) Hexane	3.16	57	3555	0.987	ppb		90
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.83	59	1770	6.000	ppb		96
16] Methyl t-butyl ether (...)	2.94	73	8013m	1.017	ppb		
17] trans-1,2-Dichloroethene	2.92	96	3671m	1.011	ppb		
18) Diisopropyl ether (DIPE)	3.35	45	6875	0.974	ppb		94
19] 1,1-Dichloroethane	3.28	63	4598	1.020	ppb		99
20) Ethyl t-butyl ether (E...)	3.66	87	3748	0.987	ppb		93
21) 2,2-Dichloropropane	3.77	77	3313m	0.744	ppb		
22] cis-1,2-Dichloroethene	3.77	96	4007m	1.022	ppb		
23) Chloroform	4.04	83	5835	0.999	ppb		94
24) 2-Butanone (MEK)	3.79	43	6556	4.929	ppb		97
25) t-Amyl methyl ether (T...)	4.61	73	7363	1.011	ppb		99
26] 1,2-Dichloroethane (EDC)	4.53	62	4374	1.069	ppb		96
27] 1,1,1-Trichloroethane	4.19	97	6260	1.011	ppb		93
28) 1,1-Dichloropropene	4.33	75	4488	1.060	ppb		88
29) Carbon tetrachloride	4.33	117	6392	0.972	ppb		97
31] Benzene	4.50	78	11304	1.067	ppb		95
32] Trichloroethene	5.05	95	4490	1.116	ppb		85
33) 1,2-Dichloropropane	5.24	63	2468	0.950	ppb		99
34) Bromodichloromethane	5.48	83	4062	0.970	ppb		97
36) Dibromomethane	5.35	93	2371	1.038	ppb		83



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

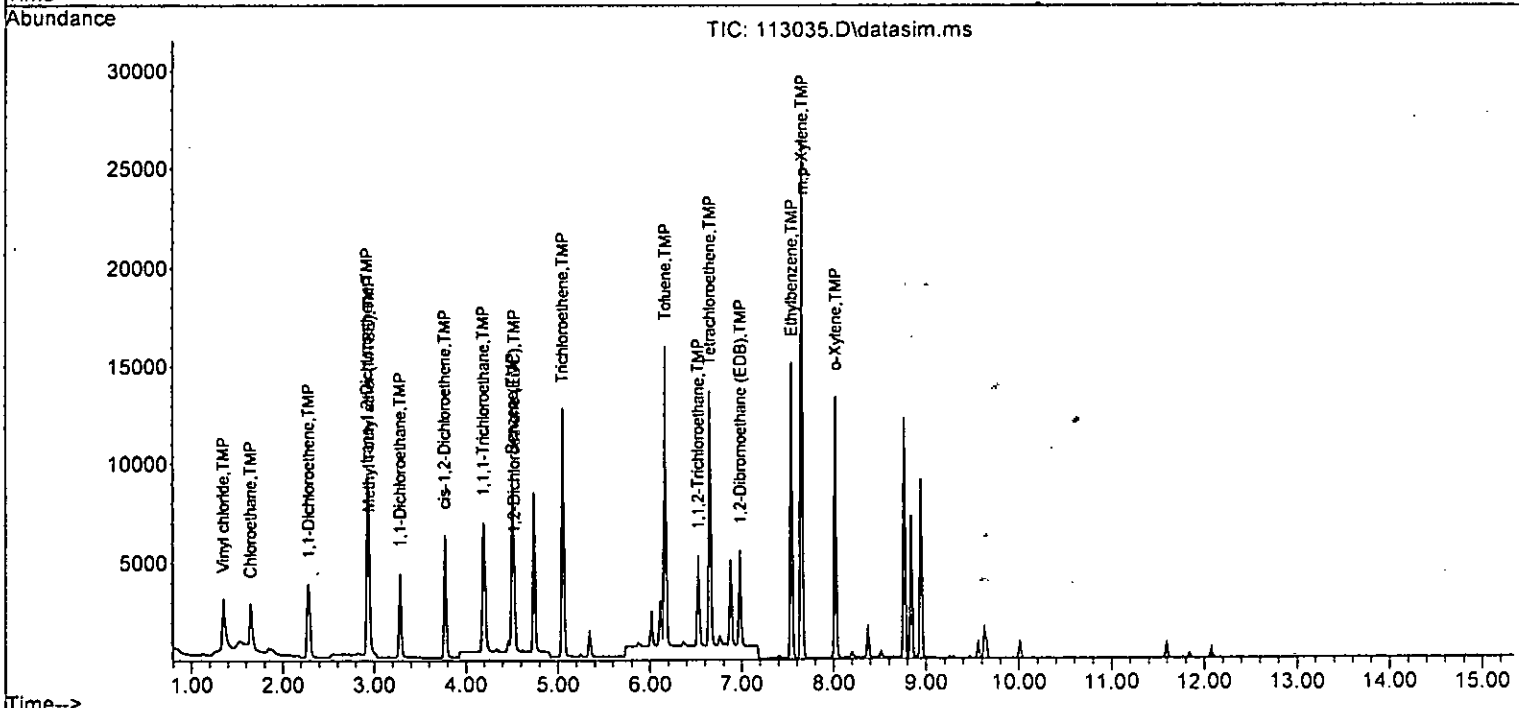
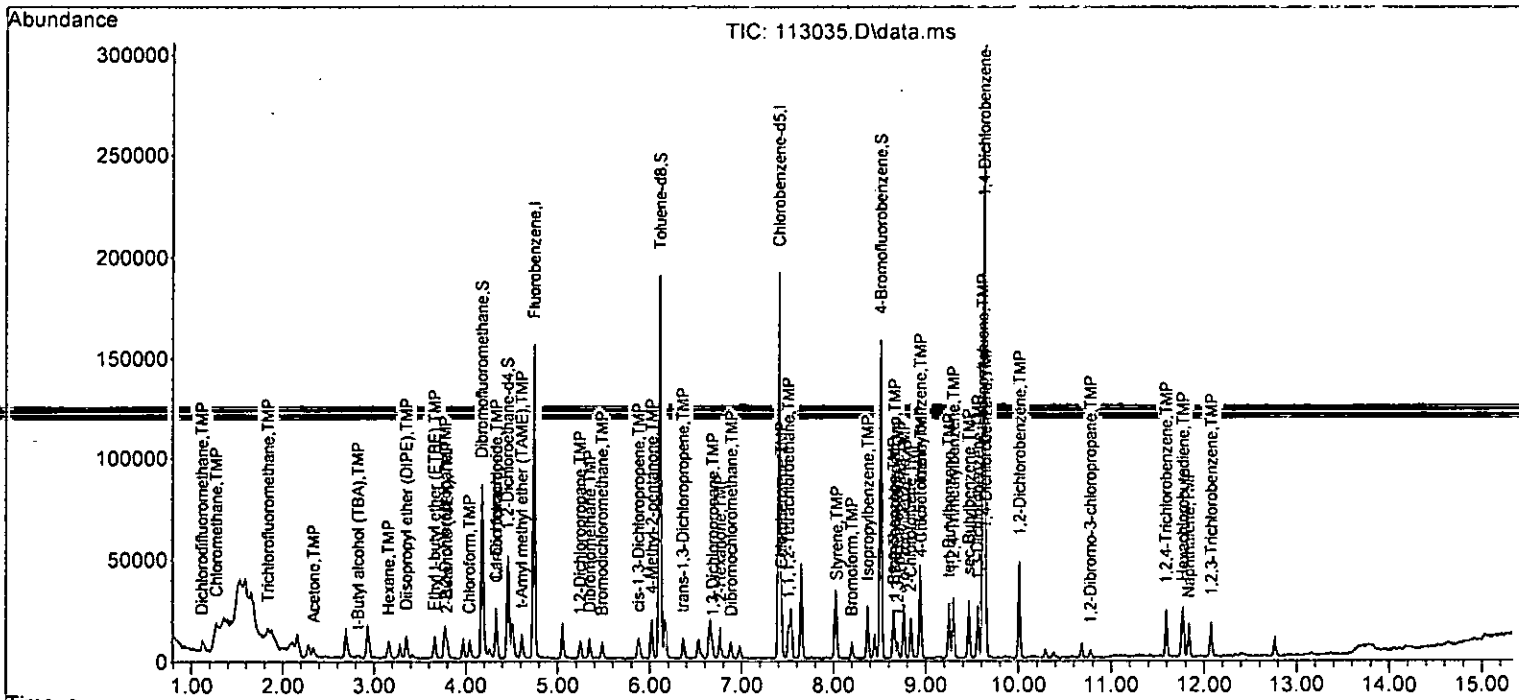
Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	2296	4.373	ppb	77
38) cis-1,3-Dichloropropene	5.88	75	4436	1.021	ppb	98
40] Toluene	6.16	92	8063	1.053	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	3926	1.007	ppb	94
42] 1,1,2-Trichloroethane	6.53	83	2263	1.049	ppb	96
43) 2-Hexanone	6.76	43	8636	5.569	ppb	97
44) 1,3-Dichloropropane	6.68	76	3976	1.074	ppb	88
45] Tetrachloroethene	6.65	164	4983	1.036	ppb	97
46) Dibromochloromethane	6.88	129	4856	1.042	ppb	96
47] 1,2-Dibromoethane (ED8)	6.98	107	3744	1.078	ppb	90
48) Chlorobenzene	7.43	112	10507	1.017	ppb	96
49] Ethylbenzene	7.54	91	15288	1.080	ppb	98
<del>50) 1,1,1,2-Tetrachloroethane</del>	<del>7.51</del>	<del>131</del>	<del>4502</del>	<del>0.996</del>	<del>ppb</del>	<del>95</del>
51] m,p-Xylene	7.65	106	13643	2.173	ppb	98
52] o-Xylene	8.02	106	6554	1.075	ppb	96
53) Styrene	8.03	104	9932	1.068	ppb	97
54) Isopropylbenzene	8.37	105	15654	1.056	ppb	99
55) Bromoform	8.20	173	3307	0.998	ppb	98
58) n-Propylbenzene	8.77	91	16765	1.095	ppb	94
59) Bromobenzene	8.65	156	5947	1.067	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	13029	1.046	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.66	83	3290	1.120	ppb	96
62) 1,2,3-Trichloropropane	8.70	75	2340	1.022	ppb	95
63) 2-Chlorotoluene	8.84	91	9527	1.095	ppb	99
64) 4-Chlorotoluene	8.95	91	11232	1.067	ppb	93
65) tert-Butylbenzene	9.25	119	13928	1.055	ppb	95
66) 1,2,4-Trimethylbenzene	9.30	105	13872	1.035	ppb	99
67) sec-Butylbenzene	9.46	105	16720	1.029	ppb	99
68) p-Isopropyltoluene	9.61	119	16632	1.022	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	10738	1.072	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	10175	1.030	ppb	97
71) 1,2-Dichlorobenzene	10.01	146	10372	1.075	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.77	75	671	1.092	ppb #	75
73) 1,2,4-Trichlorobenzene	11.59	180	6822	1.008	ppb	97
74) Hexachlorobutadiene	11.77	225	4006	1.005	ppb	95
75) Naphthalene	11.83	128	12829	0.976	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	5587	1.044	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

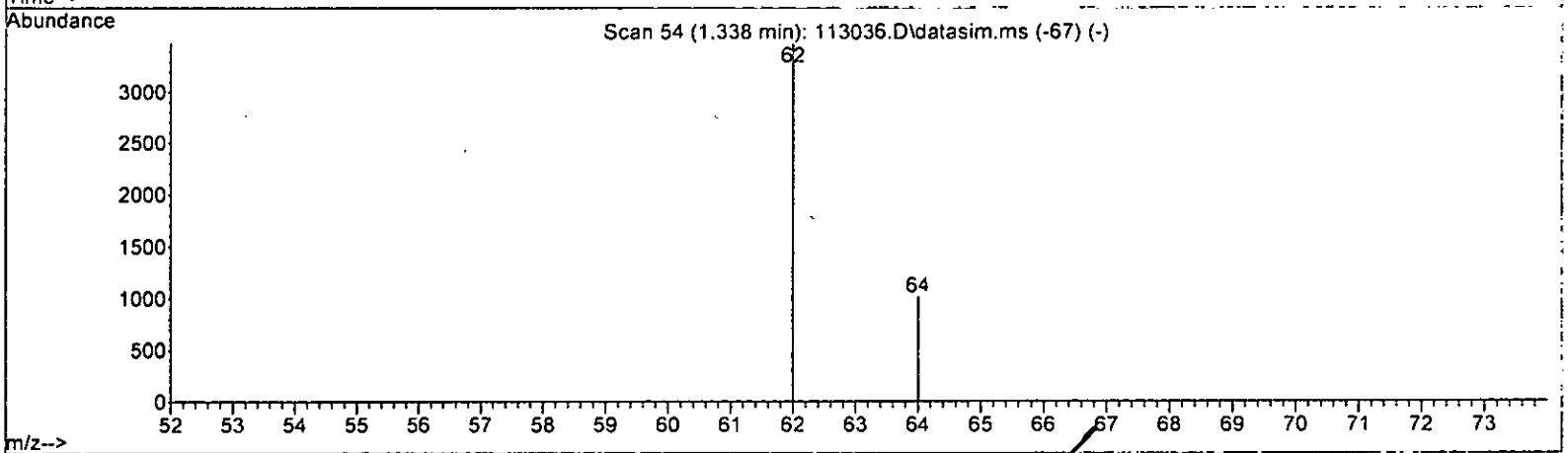
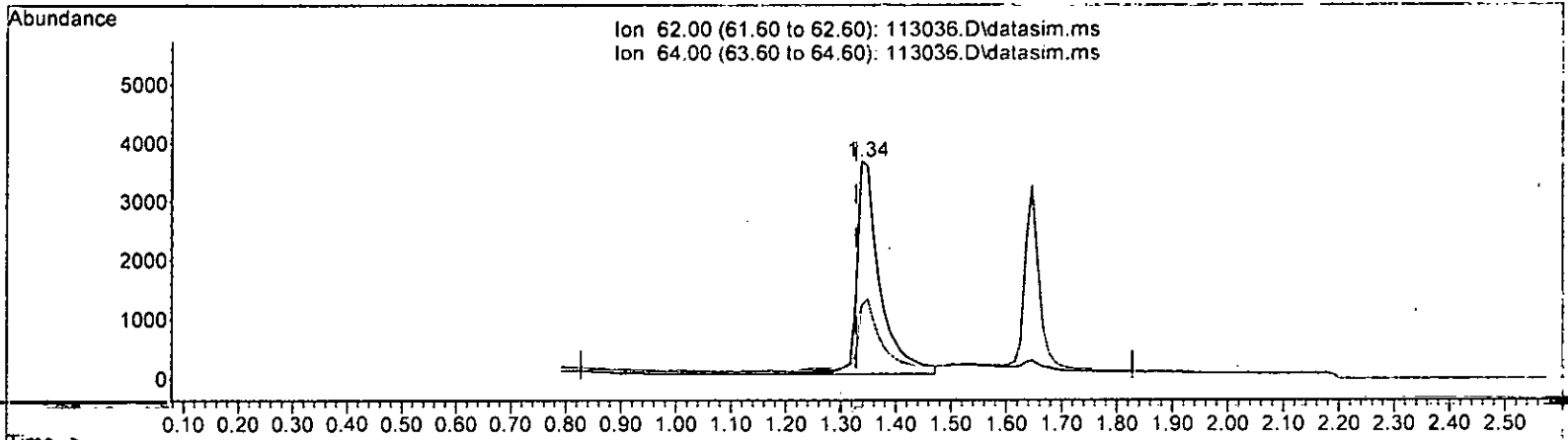
Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

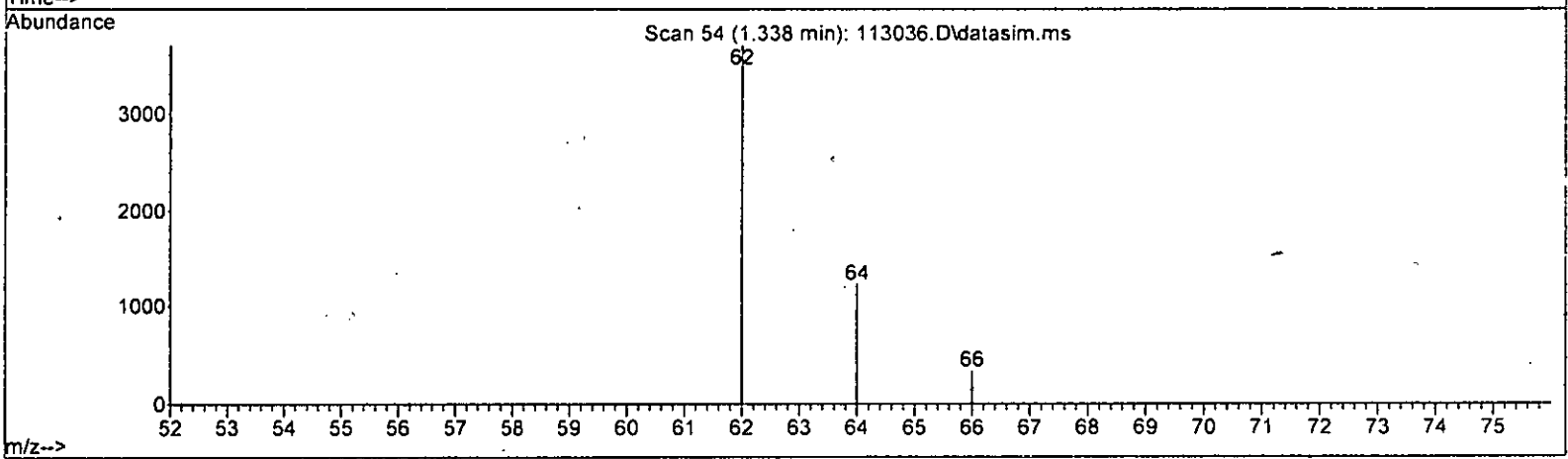
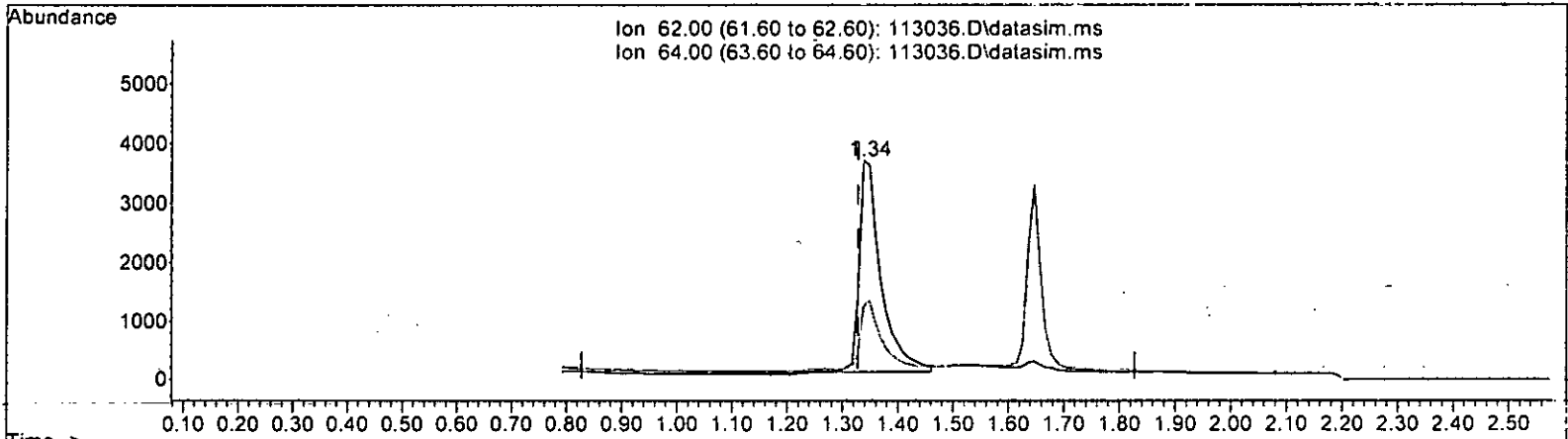
m 12.1

(6) Vinyl chloride (TMP)		
1.338min (+ 0.010)	2.081 ppb	
response	10370	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	30.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Oual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 1.953 ppb m

response 9729

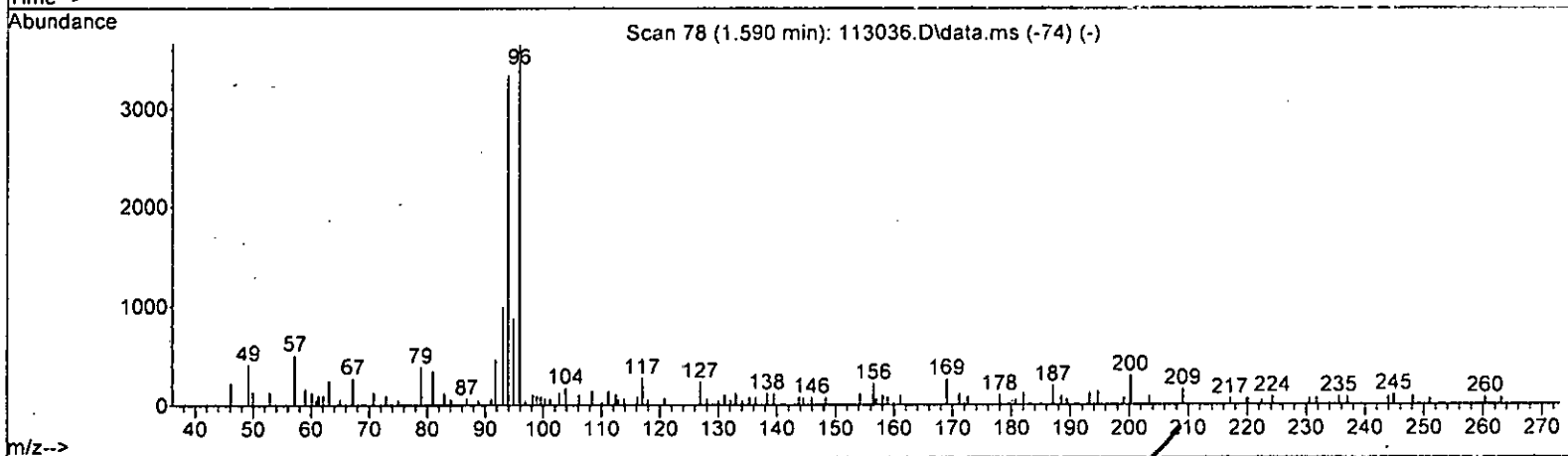
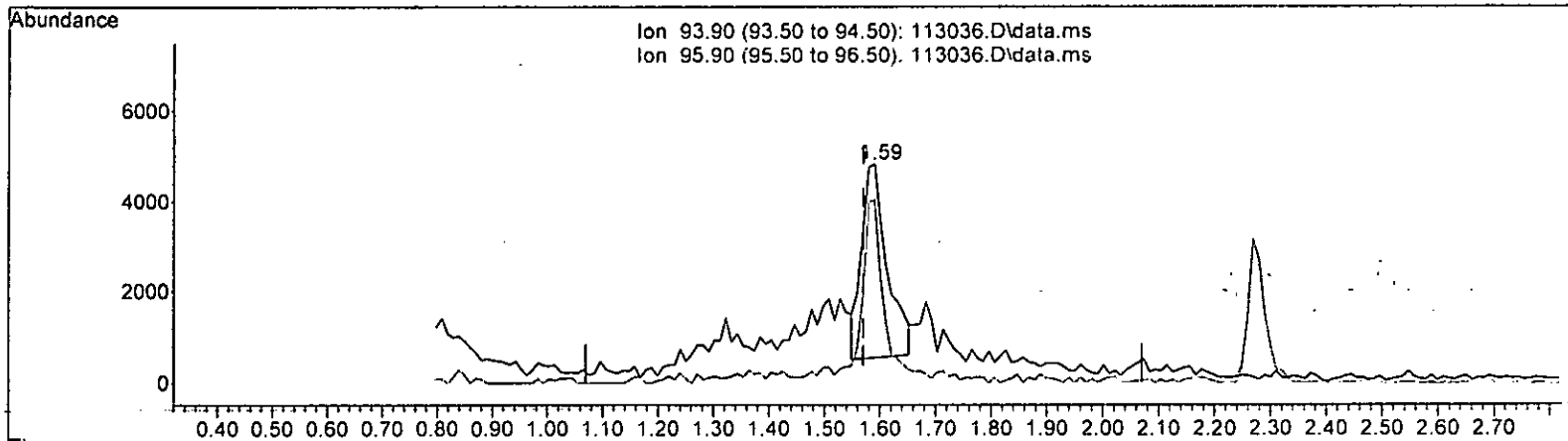
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	33.23
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(7) Bromomethane (TMP)

1.590min (+ 0.020) 2.629 ppb

response 13519

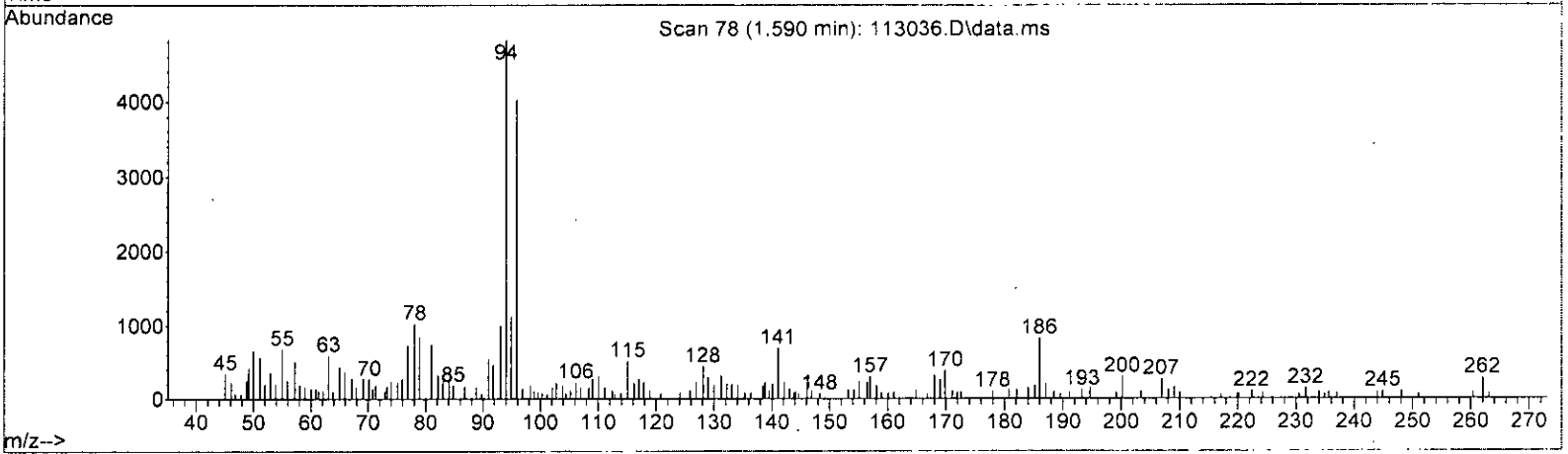
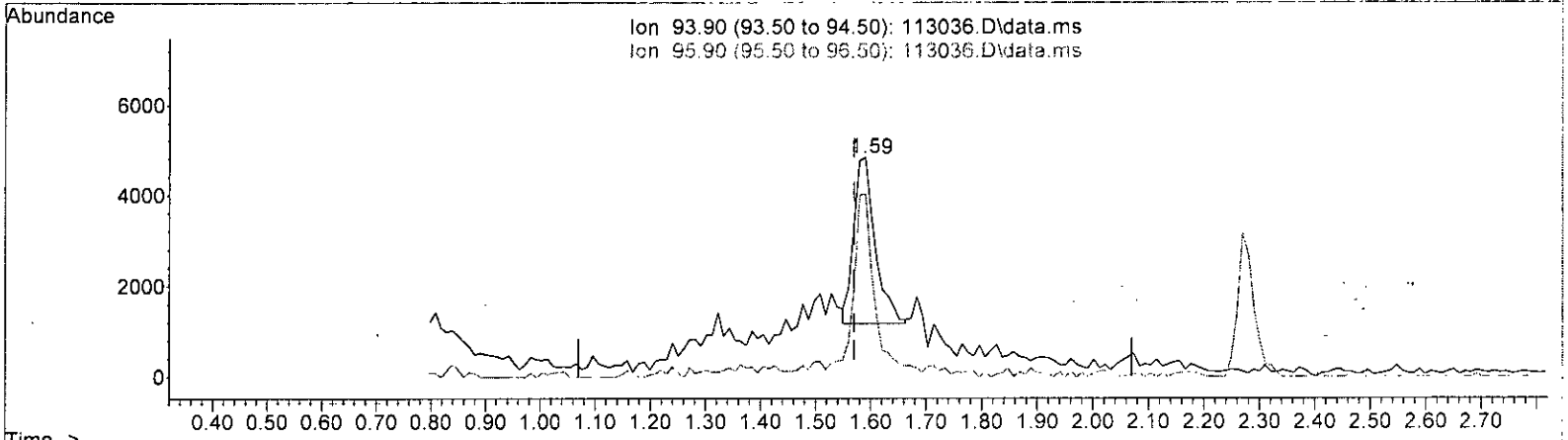
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	93.10	104.56
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(7) Bromomethane (TMP) m 12.1

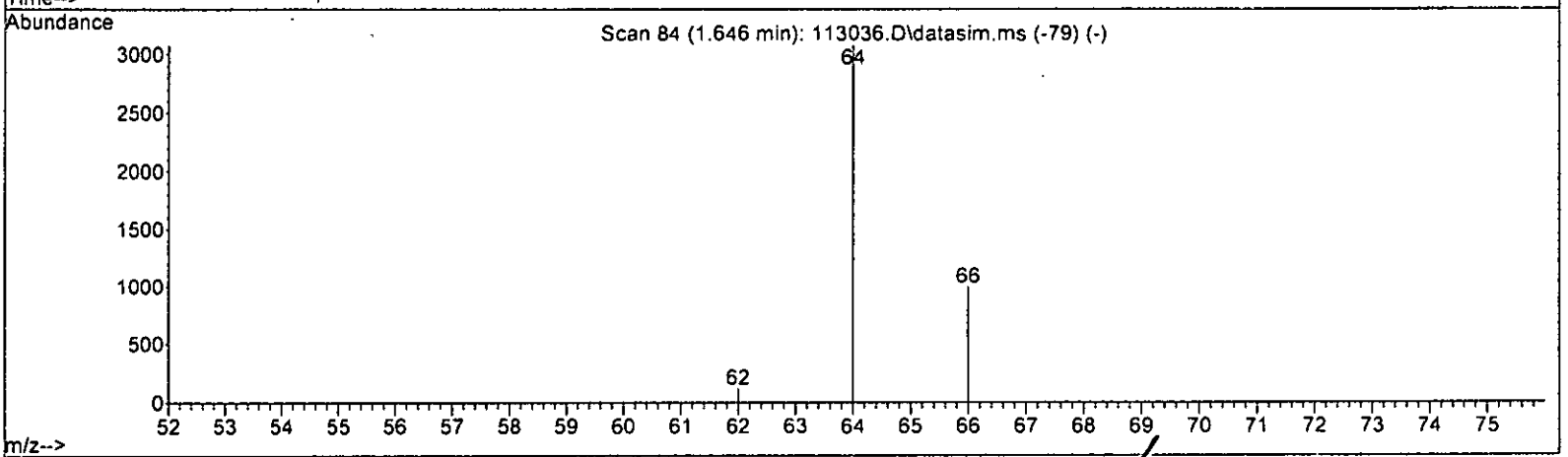
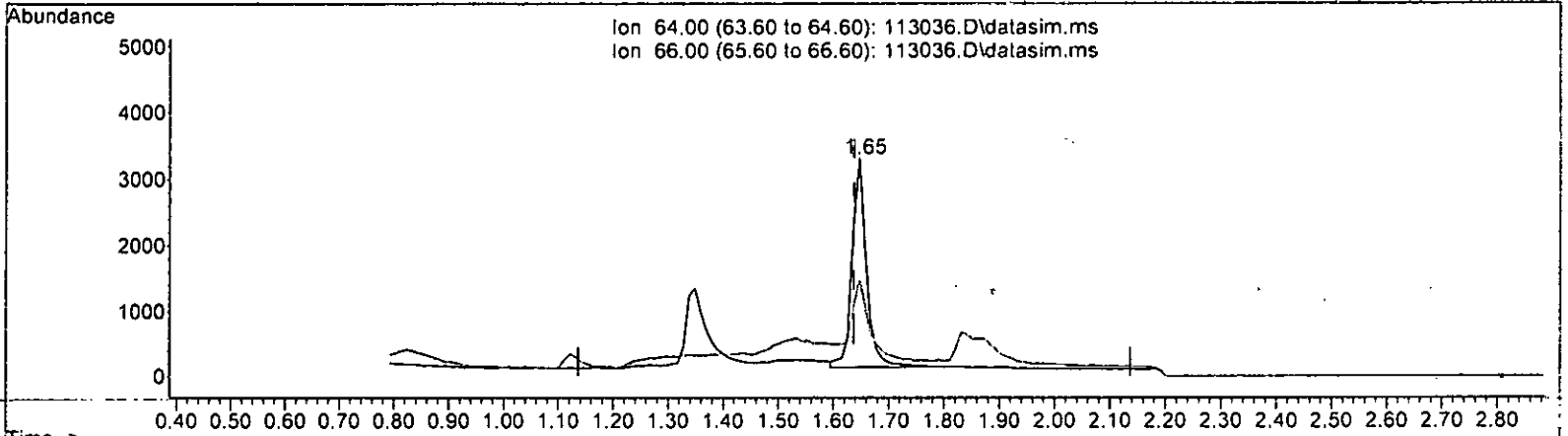
1.590min (+ 0.020) 1.905 ppb m

response	9797
Ion	Exp% Act%
93.90	100.00 100.00
95.90	93.10 83.34
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

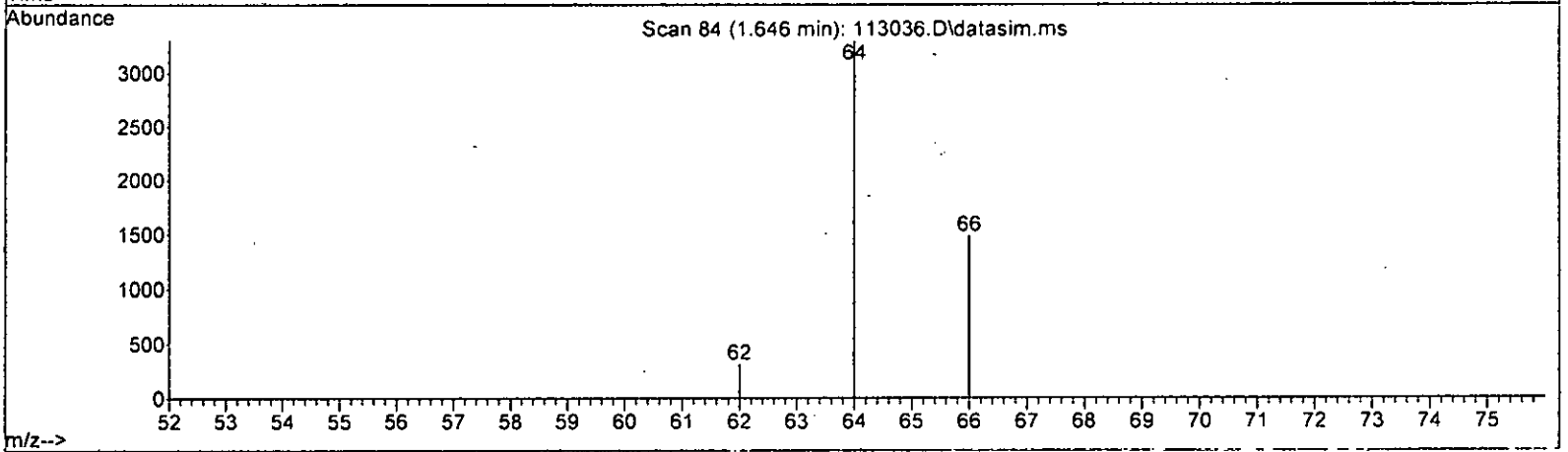
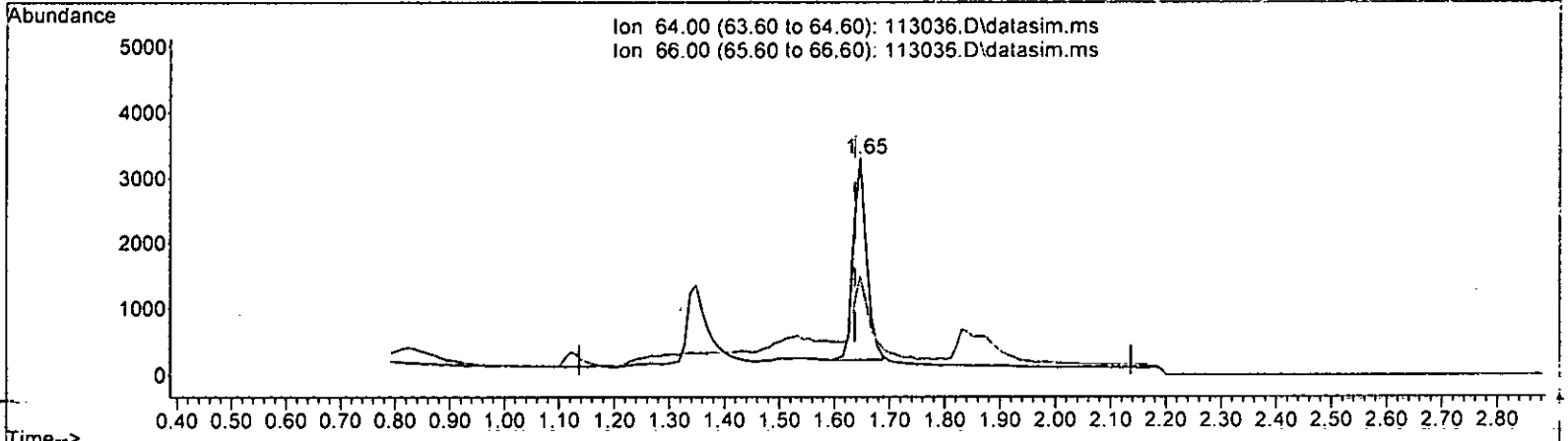
*M R.1*

(8) Chloroethane (TMP)		
1.646min (+ 0.009)	2.144 ppb	
response	5718	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	39.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report\_(Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

m 12.1

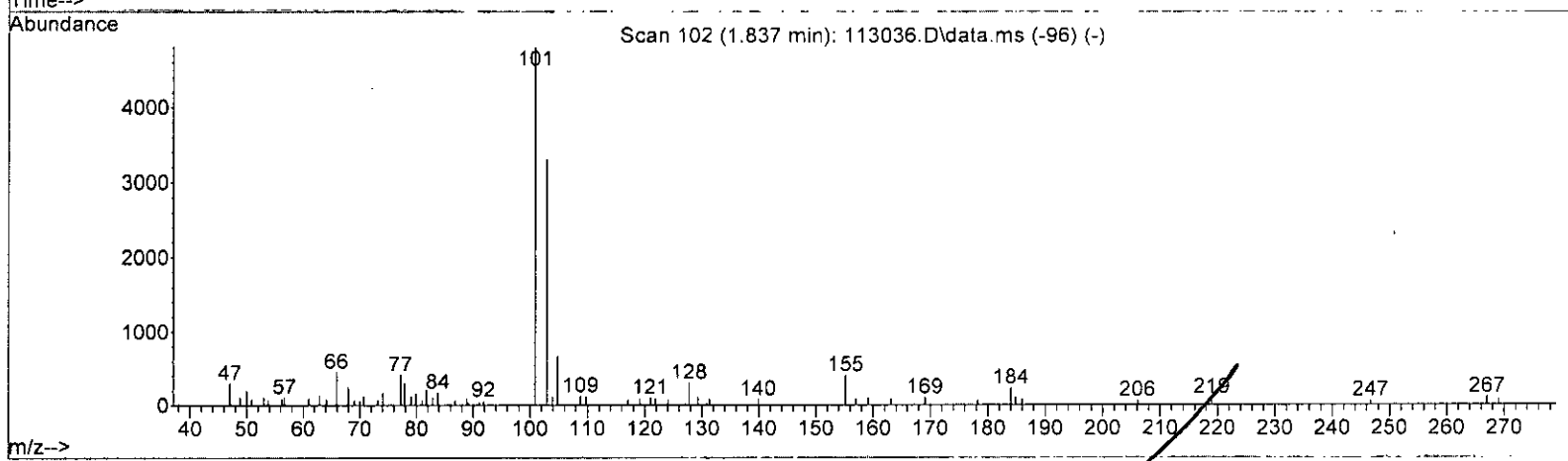
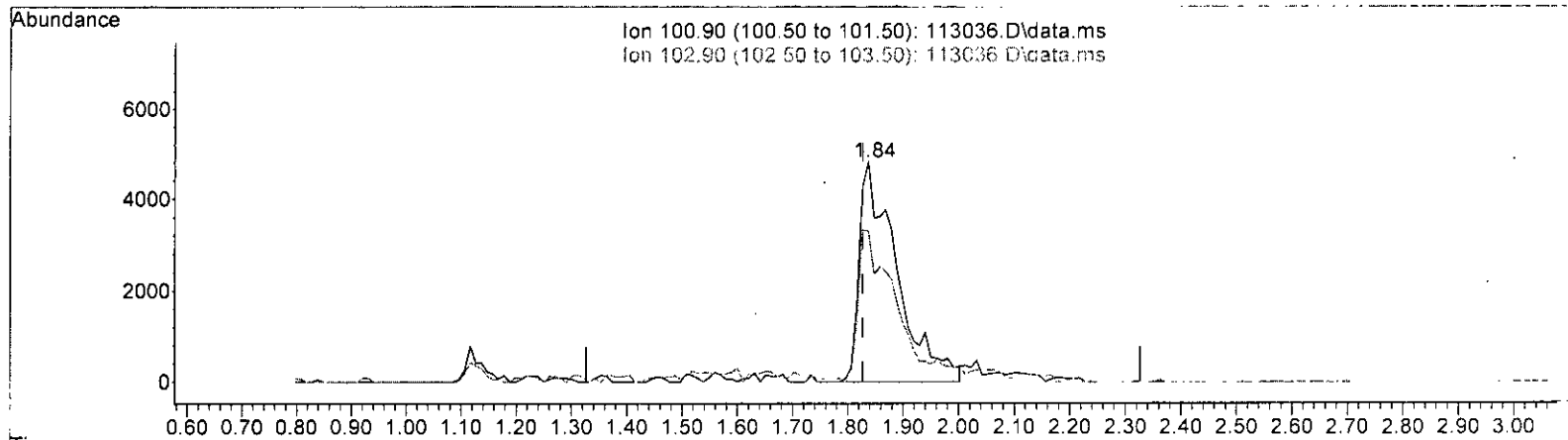
(8) Chloroethane (TMP)		
response	5053	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	44.98
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit).

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

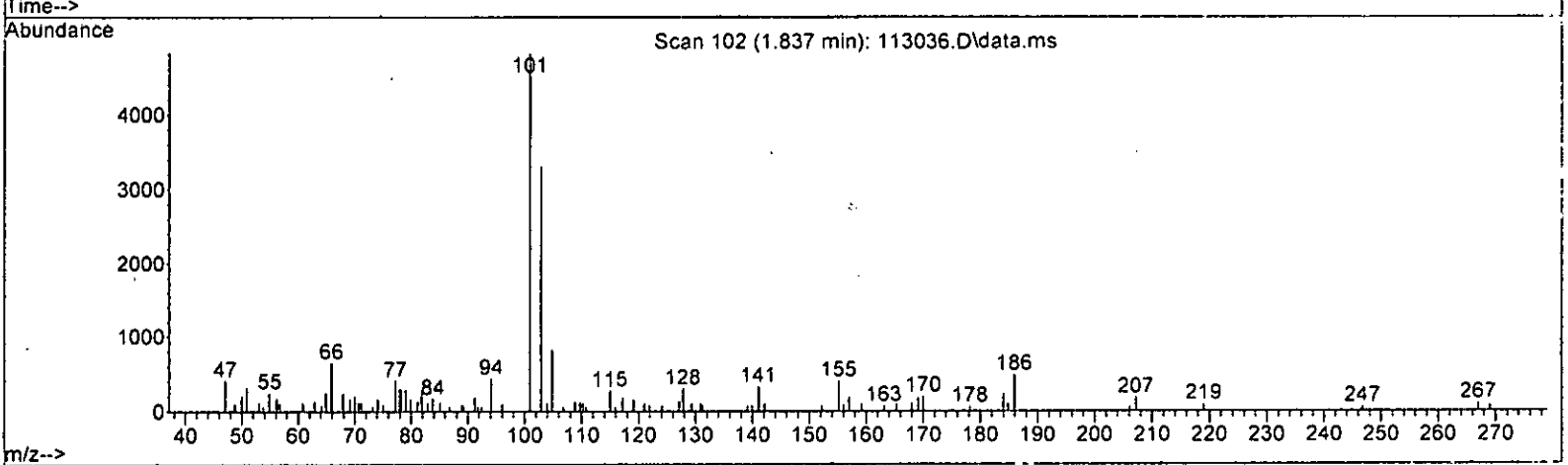
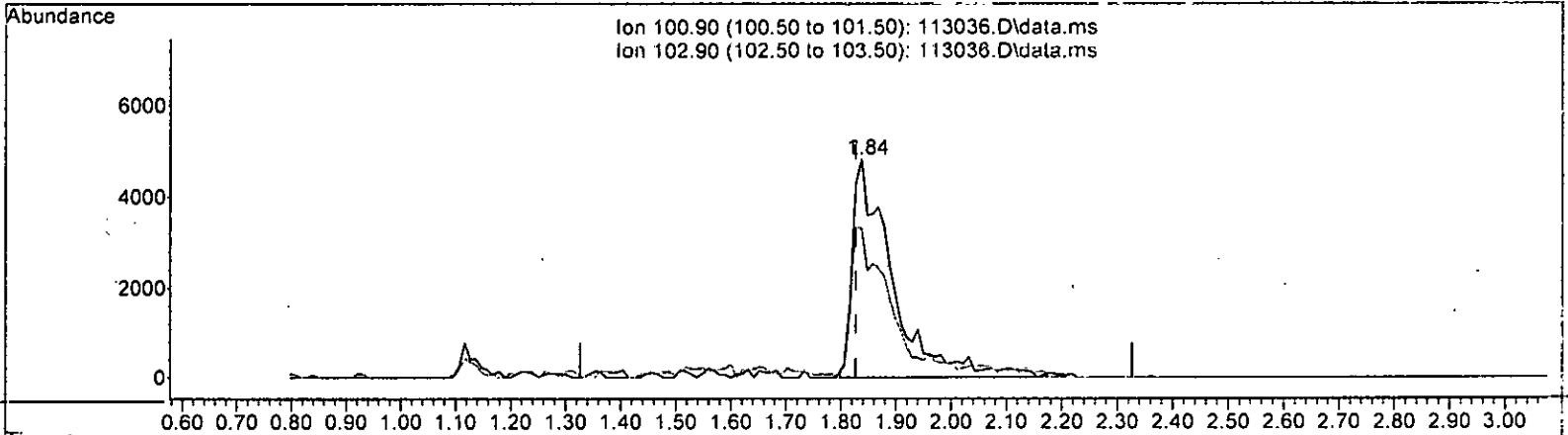
LM 12.1

(9) Trichlorofluoromethane (TMP)		
Retention Time	Expected	Actual
1.837min (+ 0.010)	1.655 ppb	
response	22435	
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	67.50	67.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.837min (+ 0.010) 1.963 ppb m

response 26619

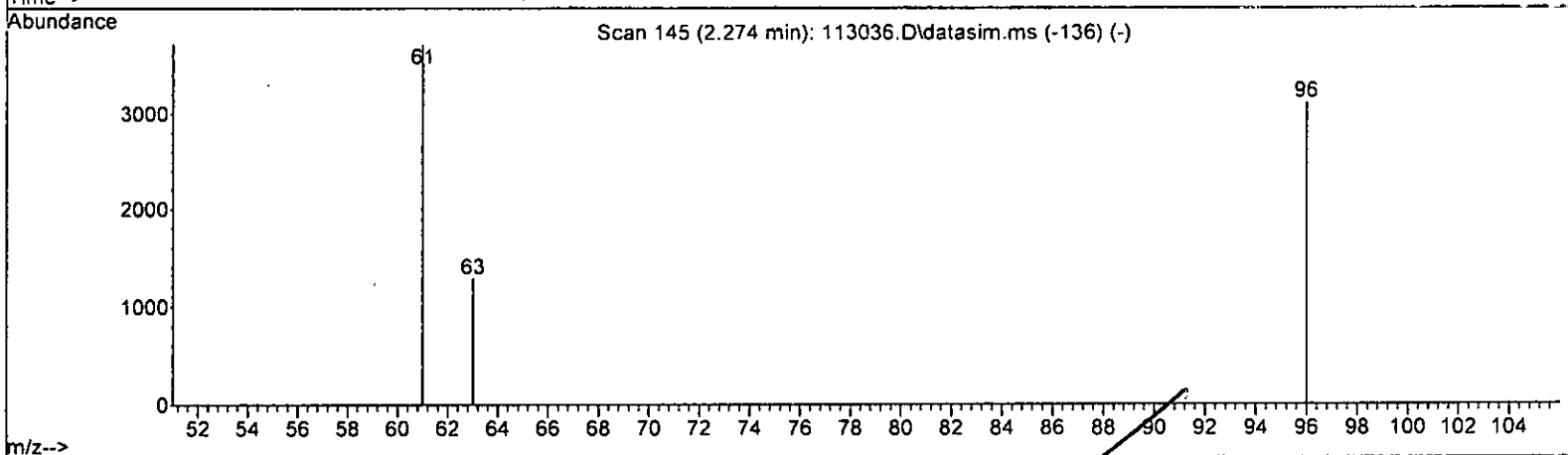
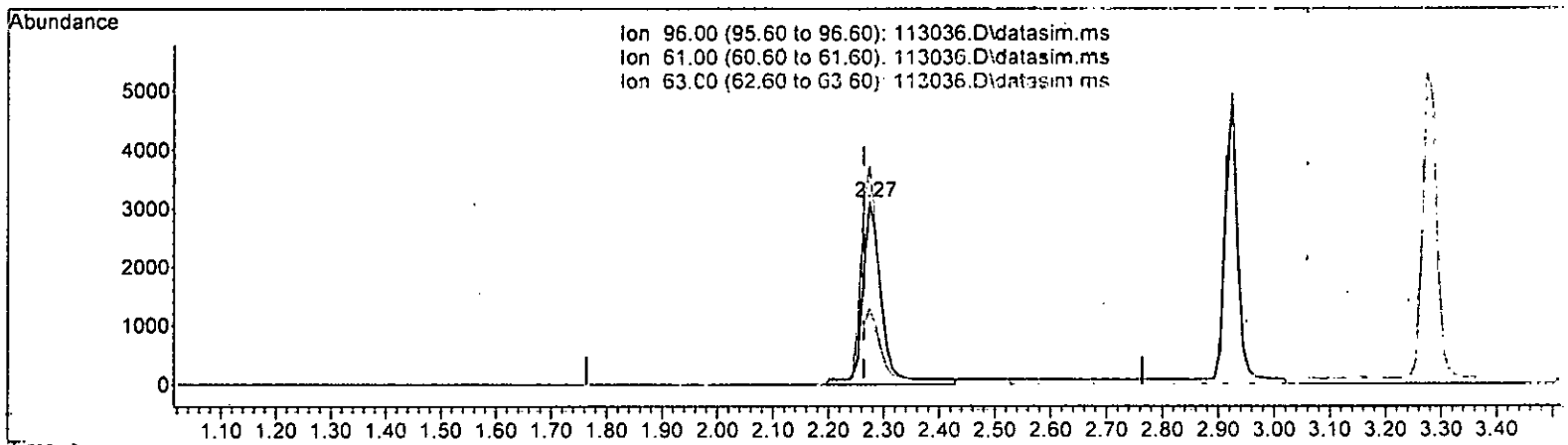
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	67.50	68.51
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.274min (+ 0.010) 2.261 ppb

response 7484

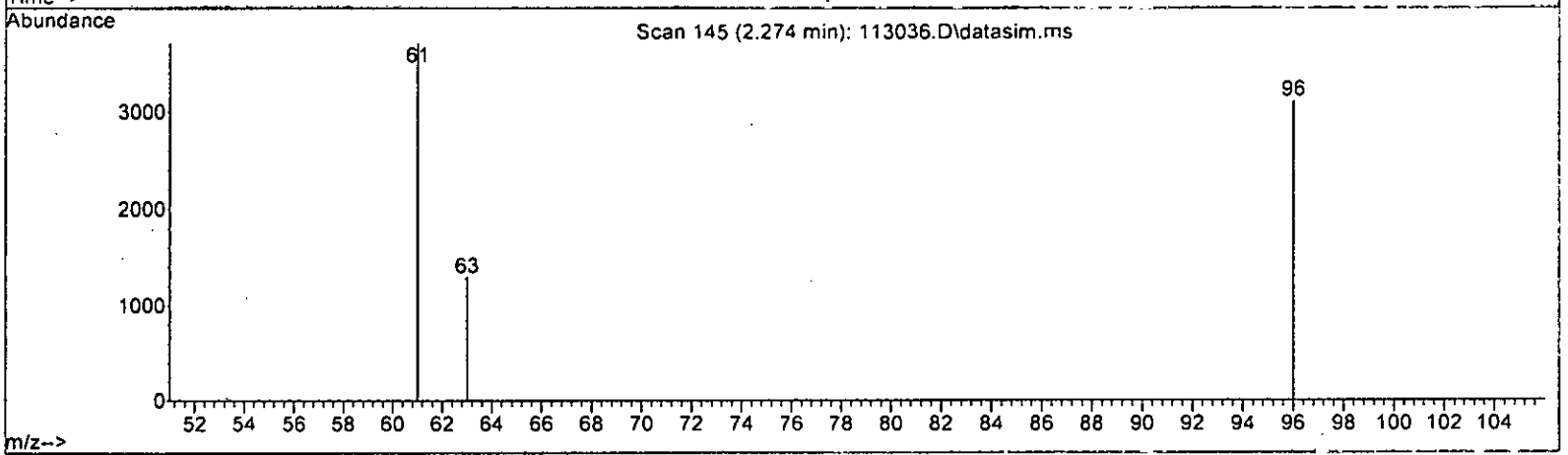
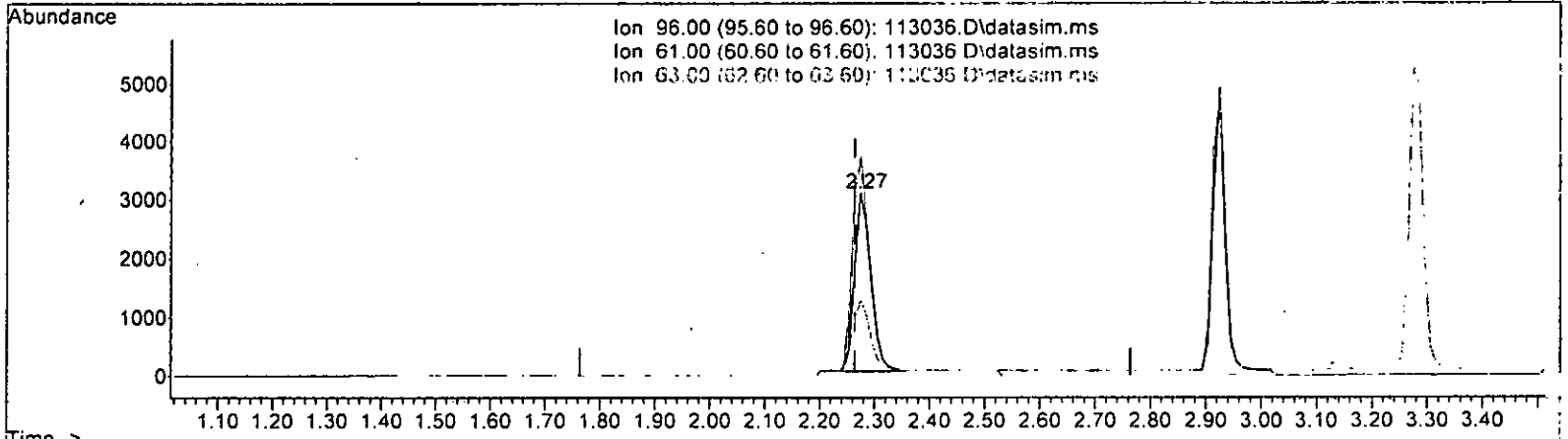
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	119.30
63.00	41.10	41.39
0.00	0.00	0.00

*M 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(12) 1,1-Dichloroethene (TMP) *m 12.1*

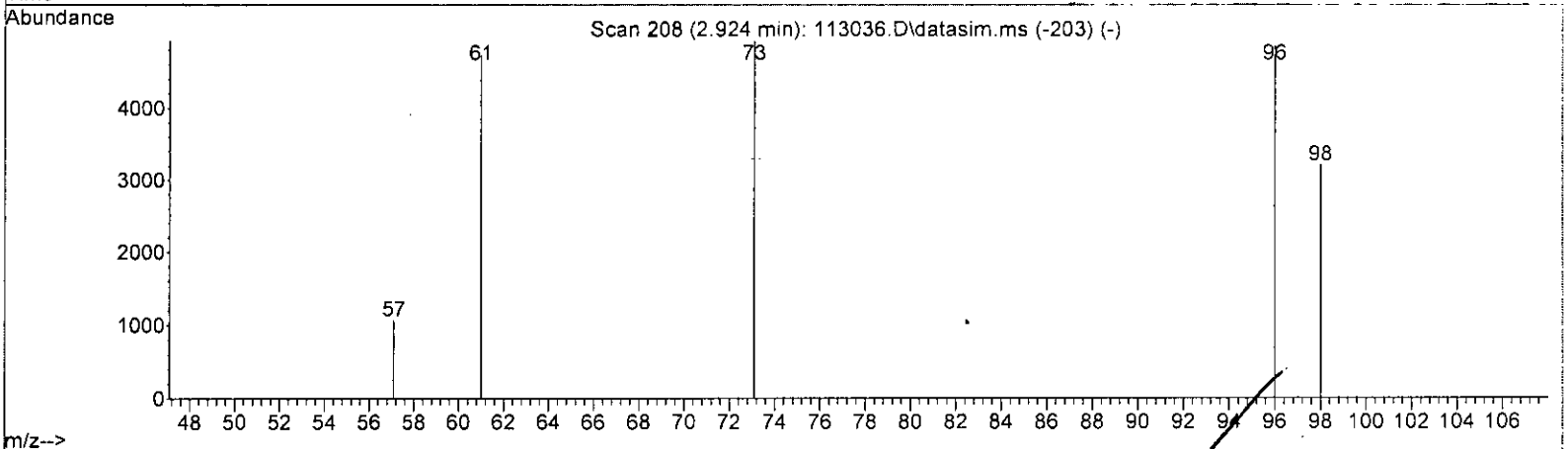
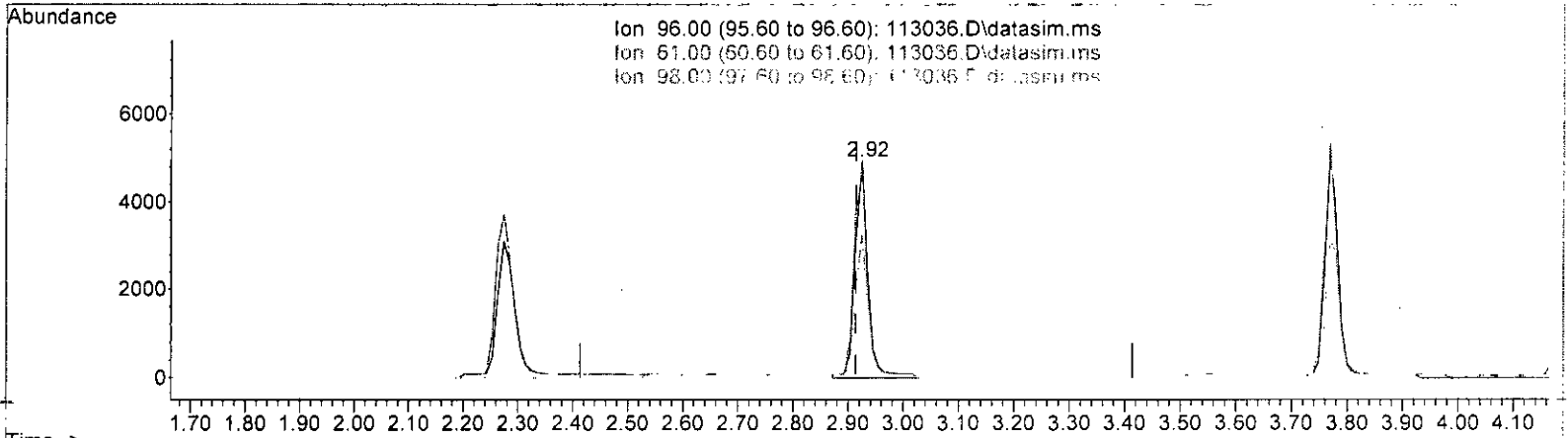
2.274min (+ 0.010) 1.922 ppb m

response	6362	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	119.30
63.00	41.10	41.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)  
 2.924min (+ 0.010) 2.143 ppb

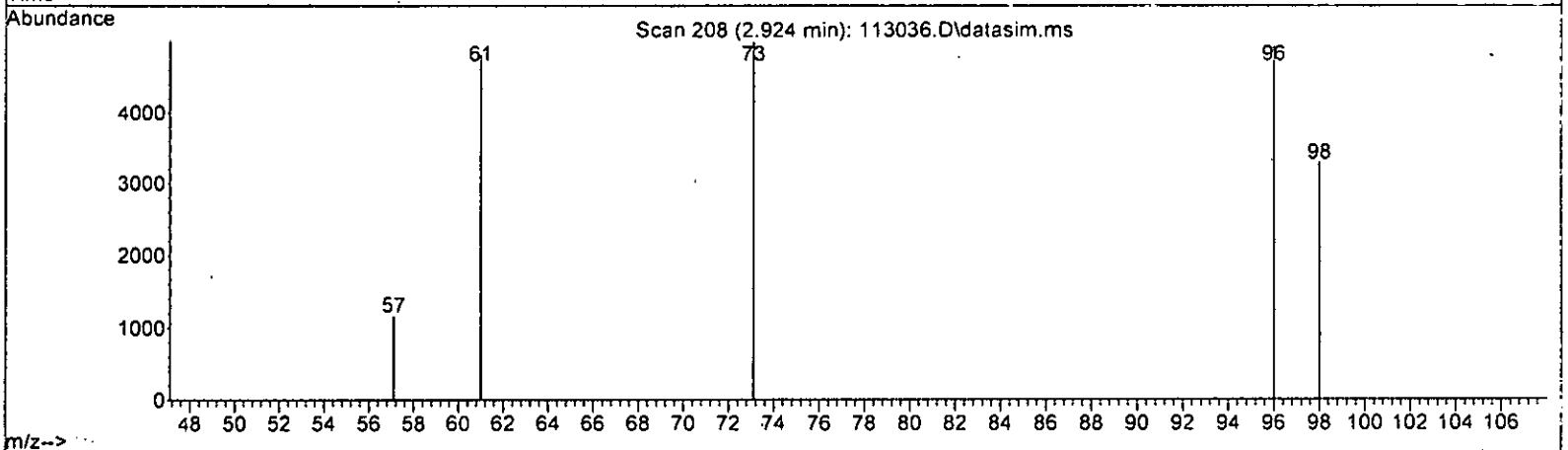
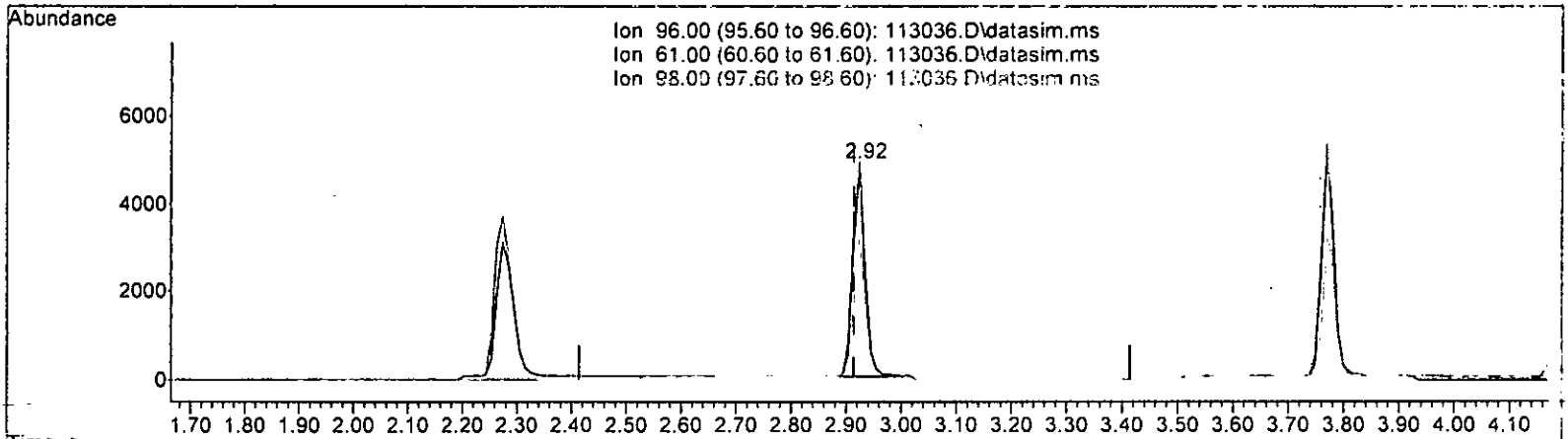
response	7852	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	97.40
98.00	62.70	66.69
0.00	0.00	0.00

*M 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *m* 12.1

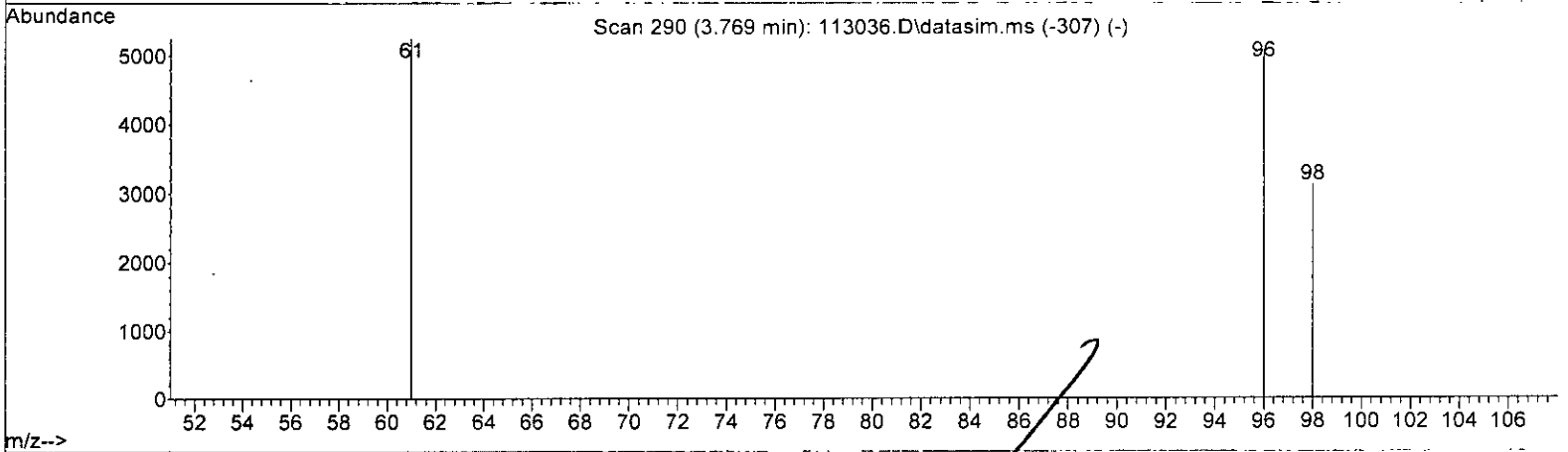
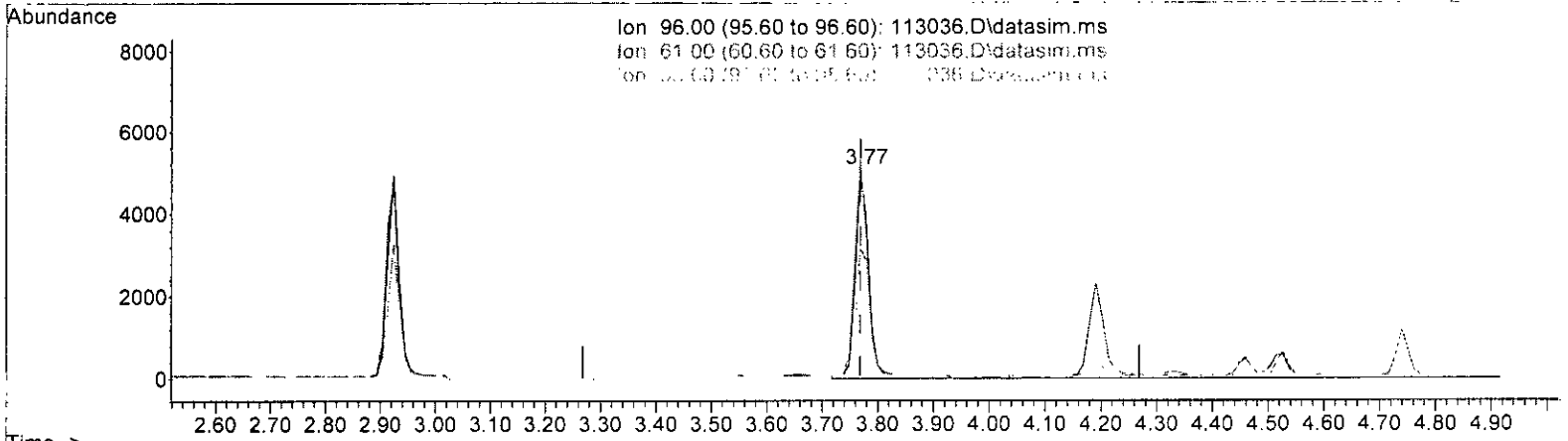
2.924min (+ 0.010) 1.975 ppb m

response	7234	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	97.40
98.00	62.70	66.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(22) cis-1,2-Dichloroethene (TMP)

3.769min (-0.000) 2.242 ppb

response 8869

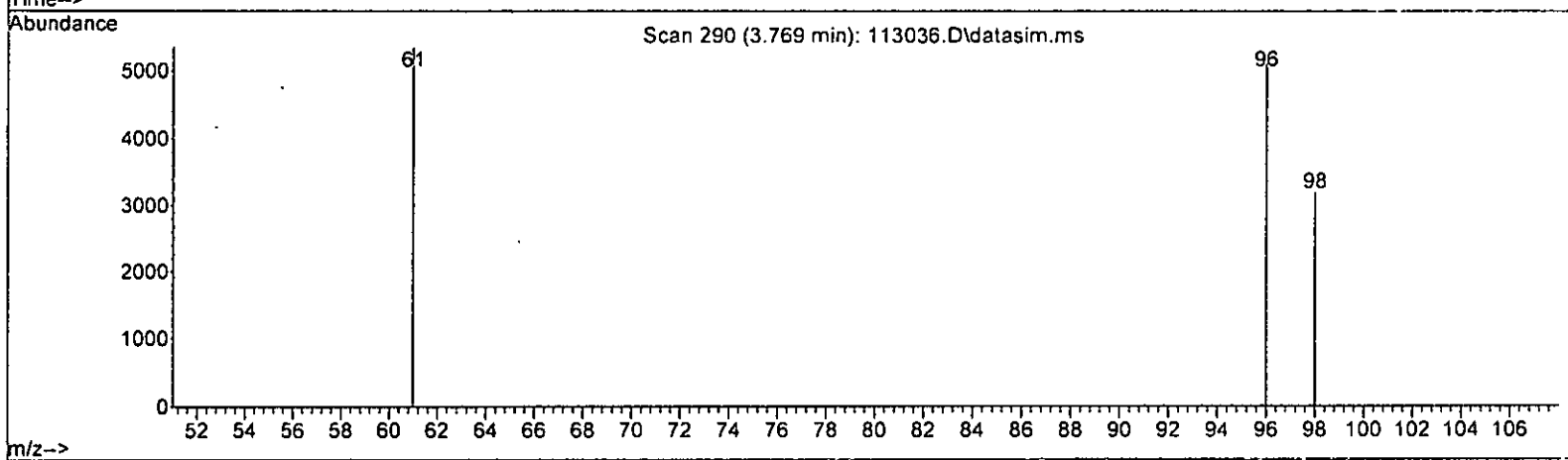
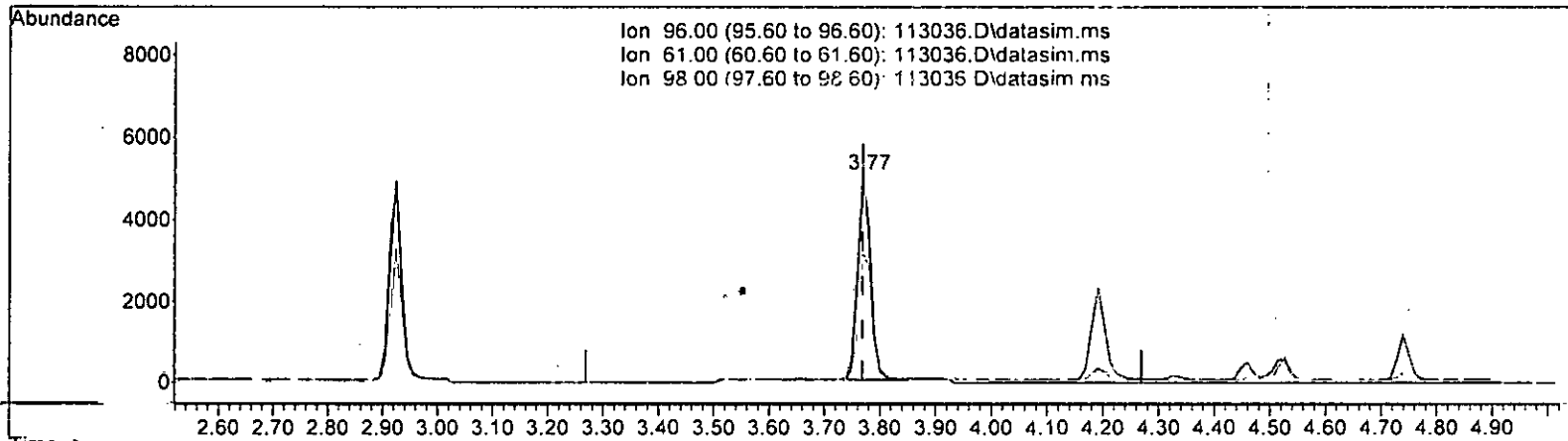
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	97.00	103.56
98.00	68.10	61.33
0.00	0.00	0.00

*ms 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(22) cis-1,2-Dichloroethene (TMP) *12.1*

3.769min (-0.000) 1.993 ppb m

response	7885
Ion	Exp% Act%
96.00	100.00 100.00
61.00	97.00 105.09
98.00	68.10 62.67
0.00	0.00 0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	9.742	2.6	100	0.00
4 TMP Dichlorodifluoromethane	2.000	1.743	12.8	93	0.00
5 TMP Chloromethane	2.000	2.204	-10.2	99	0.00
6 TMP Vinyl chloride	2.000	1.953	2.3	99	0.00
7 TMP Bromomethane	2.000	1.905	4.7	105	0.02
8 TMP Chloroethane	2.000	1.894	5.3	99	0.00
9 TMP Trichlorofluoromethane	2.000	1.963	1.8	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	10.000	10.280	-2.8	100	0.00
12 TMP 1,1-Dichloroethene	2.000	1.922	3.9	100	0.01
13 TMP Hexane	2.000	2.004	-0.2	100	0.00
14 TMP Methylene chloride	2.000	2.138	-6.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	10.000	10.513	-5.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	2.000	2.072	-3.6	103	0.01
17 TMP trans-1,2-Dichloroethene	2.000	1.975	1.2	101	0.01
18 TMP Diisopropyl ether (DIPE)	2.000	1.898	5.1	100	0.00
19 TMP 1,1-Dichloroethane	2.000	2.022	-1.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	2.000	1.962	1.9	100	0.00
21 TMP 2,2-Dichloropropane	2.000	1.874	6.3	100	0.01
22 TMP cis-1,2-Dichloroethene	2.000	1.993	0.3	101	0.00
23 TMP Chloroform	2.000	1.954	2.3	100	0.00
24 TMP 2-Butanone (MEK)	10.000	9.948	0.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	2.000	1.956	2.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	2.000	2.060	-3.0	102	0.01
27 TMP 1,1,1-Trichloroethane	2.000	2.010	-0.5	100	0.00
28 TMP 1,1-Dichloropropene	2.000	1.996	0.2	100	0.00
29 TMP Carbon tetrachloride	2.000	1.927	3.6	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.176	-1.8	100	0.00
31 TMP Benzene	2.000	2.100	-5.0	100	0.00
32 TMP Trichloroethene	2.000	2.131	-6.5	104	0.00
33 TMP 1,2-Dichloropropane	2.000	2.049	-2.4	100	0.00
34 TMP Bromodichloromethane	2.000	1.848	7.6	100	0.00
35 S Toluene-d8	10.000	9.420	5.8	100	0.00
36 TMP Dibromomethane	2.000	1.988	0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	10.000	10.322	-3.2	100	0.01
38 TMP cis-1,3-Dichloropropene	2.000	1.965	1.7	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	2.000	2.073	-3.6	100	0.00
41 TMP trans-1,3-Dichloropropene	2.000	1.972	1.4	100	0.00
42 TMP 1,1,2-Trichloroethane	2.000	2.054	-2.7	100	0.00
43 TMP 2-Hexanone	10.000	10.227	-2.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	2.000	2.042	-2.1	100	0.01
45 TMP Tetrachloroethene	2.000	2.031	-1.6	100	0.00
46 TMP Dibromochloromethane	2.000	1.982	0.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	2.000	2.114	-5.7	100	0.01
48 TMP Chlorobenzene	2.000	2.083	-4.2	100	0.00
49 TMP Ethylbenzene	2.000	2.133	-6.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	2.000	2.021	-1.0	100	0.00
51 TMP m,p-Xylene	4.000	4.291	-7.3	100	0.00
52 TMP o-Xylene	2.000	2.109	-5.4	100	0.00
53 TMP Styrene	2.000	2.040	-2.0	100	0.00
54 TMP Isopropylbenzene	2.000	2.097	-4.8	100	0.00
55 TMP Bromoform	2.000	1.879	6.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.149	-1.5	100	0.00
58 TMP n-Propylbenzene	2.000	2.047	-2.4	100	0.00
59 TMP Bromobenzene	2.000	2.025	-1.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.000	2.036	-1.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	2.000	2.046	-2.3	100	0.00
62 TMP 1,2,3-Trichloropropane	2.000	1.941	2.9	100	0.00
63 TMP 2-Chlorotoluene	2.000	2.162	-8.1	100	0.00
64 TMP 4-Chlorotoluene	2.000	2.082	-4.1	100	0.00
65 TMP tert-Butylbenzene	2.000	2.010	-0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.000	1.992	0.4	100	0.00
67 TMP sec-Butylbenzene	2.000	2.054	-2.7	100	0.00
68 TMP p-Isopropyltoluene	2.000	1.996	0.2	100	0.00
69 TMP 1,3-Dichlorobenzene	2.000	1.989	0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	2.000	2.005	-0.2	100	0.00
71 TMP 1,2-Dichlorobenzene	2.000	2.014	-0.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	2.000	2.075	-3.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	2.000	1.966	1.7	100	0.00
74 TMP Hexachlorobutadiene	2.000	1.946	2.7	100	0.00
75 TMP Naphthalene	2.000	1.899	5.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	2.000	1.965	1.7	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.310	2.8	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.508	12.7	93	0.00
5 TMP Chloromethane	0.386	0.425	-10.1	99	0.00
6 TMP Vinyl chloride	0.373	0.364	2.4	99	0.00
7 TMP Bromomethane	0.385	0.367	4.7	105	0.02
8 TMP Chloroethane	0.200	0.189	5.5	99	0.00
9 TMP Trichlorofluoromethane	1.015	0.997	1.8	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.022	0.0	100	0.00
12 TMP 1,1-Dichloroethene	0.248	0.238	4.0	100	0.01
13 TMP Hexane	0.236	0.250	-5.9	100	0.00
14 TMP Methylene chloride	0.247	0.339	-37.2#	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.023#	-4.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.617	-3.5	103	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.271	1.1	101	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.506	5.1	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.344	-0.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.282	1.7	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.260	12.5	100	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.295	0.3	101	0.00
23 TMP Chloroform	0.441	0.431	2.3	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.107	-4.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.551	0.539	2.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.316	5.4	102	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.470	-0.4	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.319	0.3	100	0.00
29 TMP Carbon tetrachloride	0.497	0.479	3.6	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP Benzene	0.849	0.835	1.6	100	0.00
32 TMP Trichloroethene	0.304	0.324	-6.6	104	0.00
33 TMP 1,2-Dichloropropane	0.189	0.184	2.6	100	0.00
34 TMP Bromodichloromethane	0.316	0.292	7.6	100	0.00
35 S Toluene-d8	0.899	0.847	5.8	100	0.00
36 TMP Dibromomethane	0.173	0.172	0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.041	-2.5	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.323	1.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.722	-0.4	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.351	1.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.201	1.5	100	0.00
43 TMP 2-Hexanone	0.142	0.145	-2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.345	-2.1	100	0.01
45 TMP Tetrachloroethene	0.443	0.444	-0.2	100	0.00
46 TMP Dibromochloromethane	0.425	0.421	0.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.333	0.6	100	0.01
48 TMP Chlorobenzene	0.943	0.982	-4.1	100	0.00
49 TMP Ethylbenzene	1.560	1.348	13.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.417	-1.0	100	0.00
51 TMP m,p-Xylene	0.718	0.599	16.6	100	0.00
52 TMP o-Xylene	0.611	0.581	4.9	100	0.00
53 TMP Styrene	0.848	0.865	-2.0	100	0.00
54 TMP Isopropylbenzene	1.353	1.419	-4.9	100	0.00
55 TMP Bromoform	0.302	0.284	6.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	0.606	0.615	-1.5	100	0.00
58 TMP n-Propylbenzene	2.257	2.311	-2.4	100	0.00
59 TMP Bromobenzene	0.821	0.831	-1.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.868	-1.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.440#	-1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.327#	3.0	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.387	-8.2	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.615	-4.1	100	0.00
65 TMP tert-Butylbenzene	1.946	1.956	-0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.967	0.4	100	0.00
67 TMP sec-Butylbenzene	2.396	2.460	-2.7	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.394	0.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.468	0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.460	-0.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.432	-0.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.094	-3.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.980	1.7	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.572	2.7	100	0.00
75 TMP Naphthalene	1.938	1.840	5.1	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.775	1.8	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	133517	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	109857	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	67912	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	41436	9.742	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.40%
30) 1,2-Dichloroethane-d4	4.45	102	8112	10.176	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	101.80%
35) Toluene-d8	6.10	98	113056	9.420	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	94.20%
57) 4-Bromofluorobenzene	8.51	95	41764	10.149	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	101.50%
Target Compounds						
2) Ethanol	2.33	45	234	No Calib		
4) Dichlorodifluoromethane	1.12	85	13556	1.743	ppb	92
5) Chloromethane	1.26	50	11355	2.204	ppb	94
6] Vinyl chloride	1.34	62	9729m	1.953	ppb	
7) Bromomethane	1.59	94	9797m	1.905	ppb	
8] Chloroethane	1.65	64	5053m	1.894	ppb	
9) Trichlorofluoromethane	1.84	101	26619m	1.963	ppb	
10) 2-Propanol	2.33	45	234	No Calib		
11) Acetone	2.33	58	2922	10.280	ppb #	85
12] 1,1-Dichloroethene	2.27	96	6362m	1.922	ppb	
13) Hexane	3.16	57	6672	2.004	ppb	93
14) Methylene chloride	2.69	84	9051	2.138	ppb	90
15) t-Butyl alcohol (TBA)	2.82	59	3130	10.513	ppb	92
16] Methyl t-butyl ether (...)	2.93	73	16483	2.072	ppb	99
17] trans-1,2-Dichloroethene	2.92	96	7234m	1.975	ppb	
18) Diisopropyl ether (DIPE)	3.35	45	13520	1.898	ppb	93
19] 1,1-Dichloroethane	3.27	63	9195	2.022	ppb	94
20) Ethyl t-butyl ether (E...)	3.66	87	7523	1.962	ppb	95
21) 2,2-Dichloropropane	3.77	77	6935	1.874	ppb	84
22] cis-1,2-Dichloroethene	3.77	96	7885m	1.993	ppb	
23) Chloroform	4.04	83	11516	1.954	ppb	99
24) 2-Butanone (MEK)	3.79	43	14294	9.948	ppb	97
25) t-Amyl methyl ether (T...)	4.61	73	14380	1.956	ppb	98
26] 1,2-Dichloroethane (EDC)	4.53	62	8438	2.060	ppb	93
27] 1,1,1-Trichloroethane	4.19	97	12555	2.010	ppb	96
28) 1,1-Dichloropropene	4.33	75	8531	1.996	ppb	95
29) Carbon tetrachloride	4.33	117	12792	1.927	ppb	97
31] Benzene	4.50	78	22301	2.100	ppb	96
32] Trichloroethene	5.05	95	8651	2.131	ppb	89
33) 1,2-Dichloropropane	5.24	63	4909	2.049	ppb	98
34) Bromodichloromethane	5.48	83	7806	1.848	ppb	98
36) Dibromomethane	5.35	93	4583	1.988	ppb	94

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

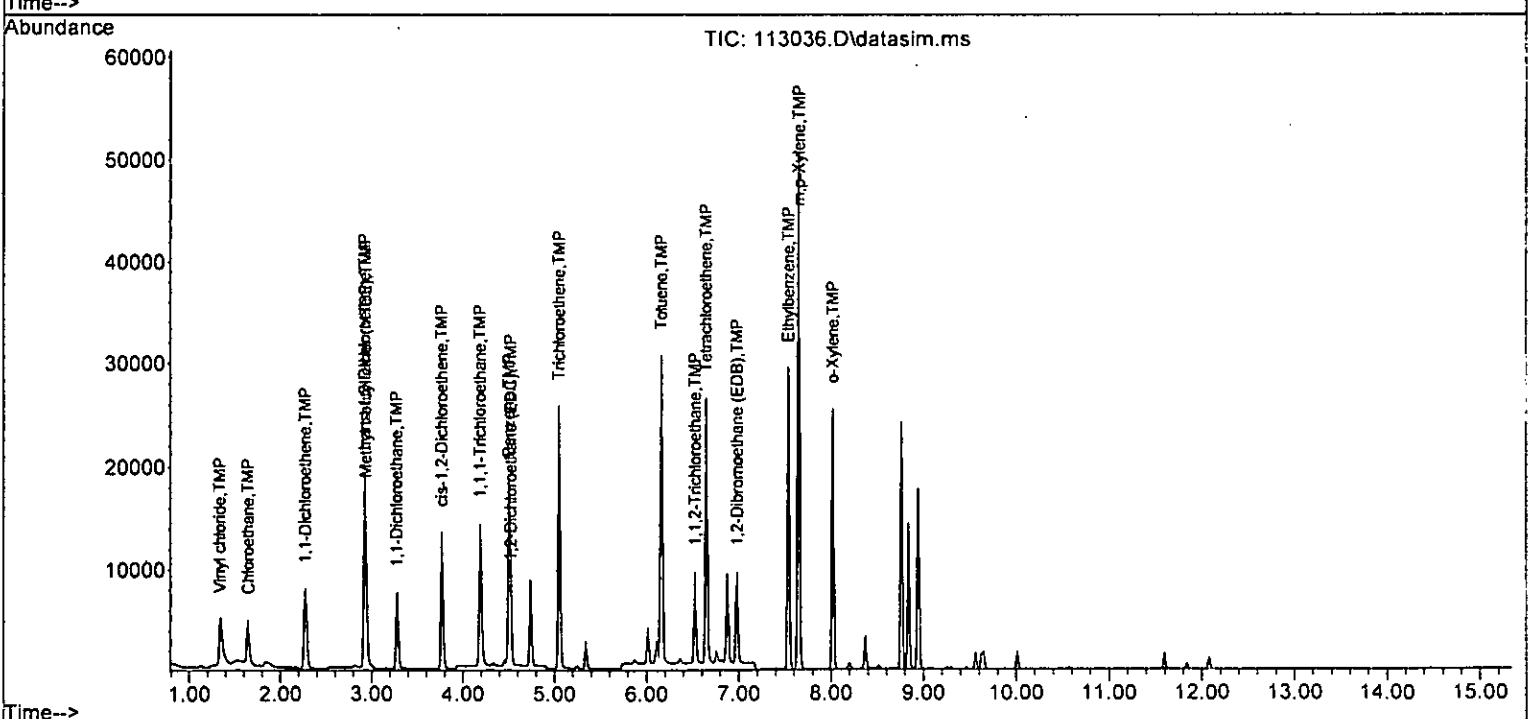
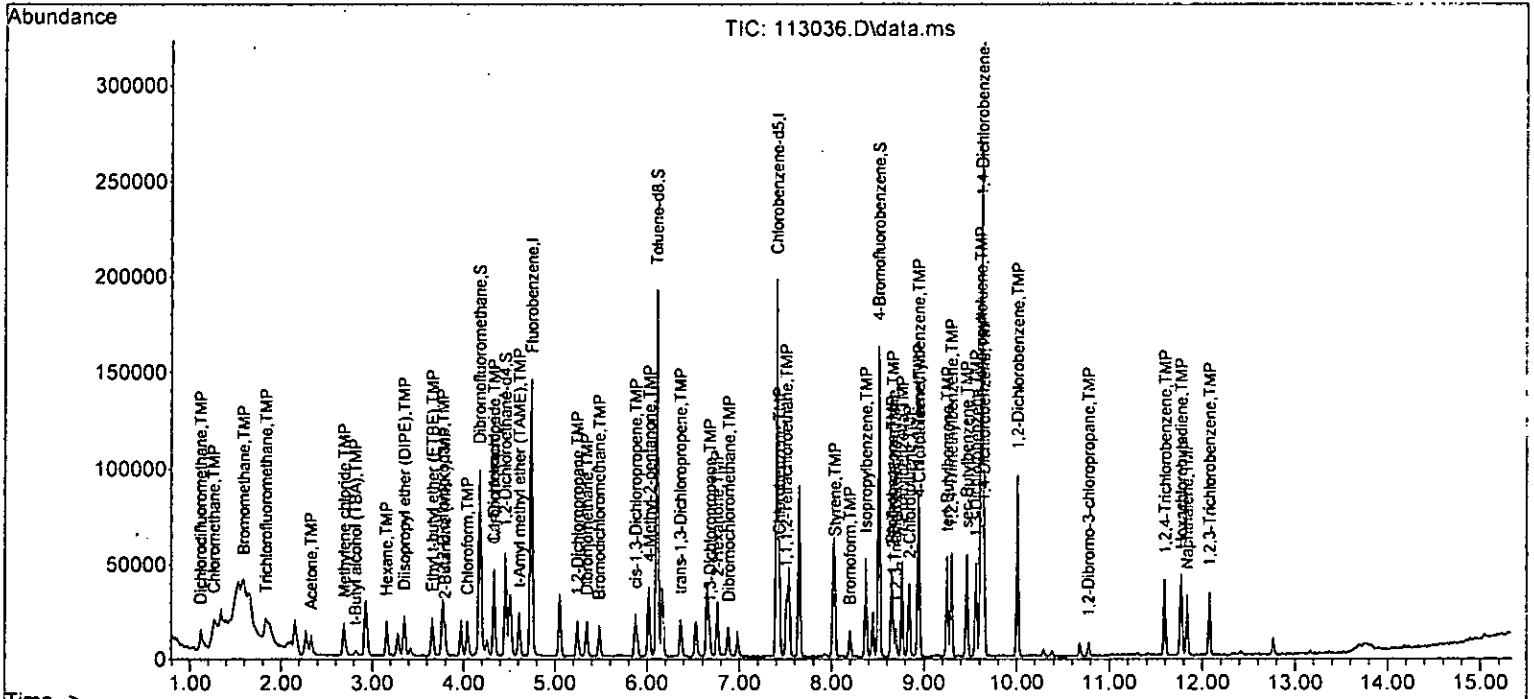
Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	5470	10.322	ppb	87
38) cis-1,3-Dichloropropene	5.88	75	8617	1.965	ppb	96
40] Toluene	6.16	92	15873	2.073	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	7709	1.972	ppb	95
42] 1,1,2-Trichloroethane	6.53	83	4427	2.054	ppb	96
43) 2-Hexanone	6.76	43	15900	10.227	ppb	95
44) 1,3-Dichloropropane	6.68	76	7580	2.042	ppb	80
45] Tetrachloroethene	6.65	164	9762	2.031	ppb	98
46) Dibromochloromethane	6.88	129	9260	1.982	ppb	94
47] 1,2-Dibromoethane (EDB)	6.98	107	7318	2.114	ppb	90
48) Chlorobenzene	7.43	112	21583	2.083	ppb	97
49] Ethylbenzene	7.54	91	29619	2.133	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.51	131	9163	2.021	ppb	95
51] m,p-Xylene	7.65	106	26305	4.291	ppb	98
52] o-Xylene	8.02	106	12762	2.109	ppb	97
53) Styrene	8.03	104	19015	2.040	ppb	97
54) Isopropylbenzene	8.37	105	31174	2.097	ppb	100
55) Bromoform	8.20	173	6242	1.879	ppb	91
58) n-Propylbenzene	8.77	91	31383	2.047	ppb	99
59) Bromobenzene	8.65	156	11292	2.025	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	25378	2.036	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.66	83	5982	2.046	ppb	97
62) 1,2,3-Trichloropropane	8.70	75	4447	1.941	ppb	99
63) 2-Chlorotoluene	8.84	91	18834	2.162	ppb	97
64) 4-Chlorotoluene	8.95	91	21942	2.082	ppb	96
65) tert-Butylbenzene	9.25	119	26570	2.010	ppb	97
66) 1,2,4-Trimethylbenzene	9.30	105	26720	1.992	ppb	99
67) sec-Butylbenzene	9.46	105	33417	2.054	ppb	99
68) p-Isopropyltoluene	9.61	119	32521	1.996	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	19939	1.989	ppb	97
70) 1,4-Dichlorobenzene	9.64	146	19824	2.005	ppb	97
71) 1,2-Dichlorobenzene	10.01	146	19446	2.014	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	1276	2.075	ppb #	64
73) 1,2,4-Trichlorobenzene	11.60	180	13316	1.966	ppb	97
74) Hexachlorobutadiene	11.77	225	7765	1.946	ppb	94
75) Naphthalene	11.83	128	24992	1.899	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	10532	1.965	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

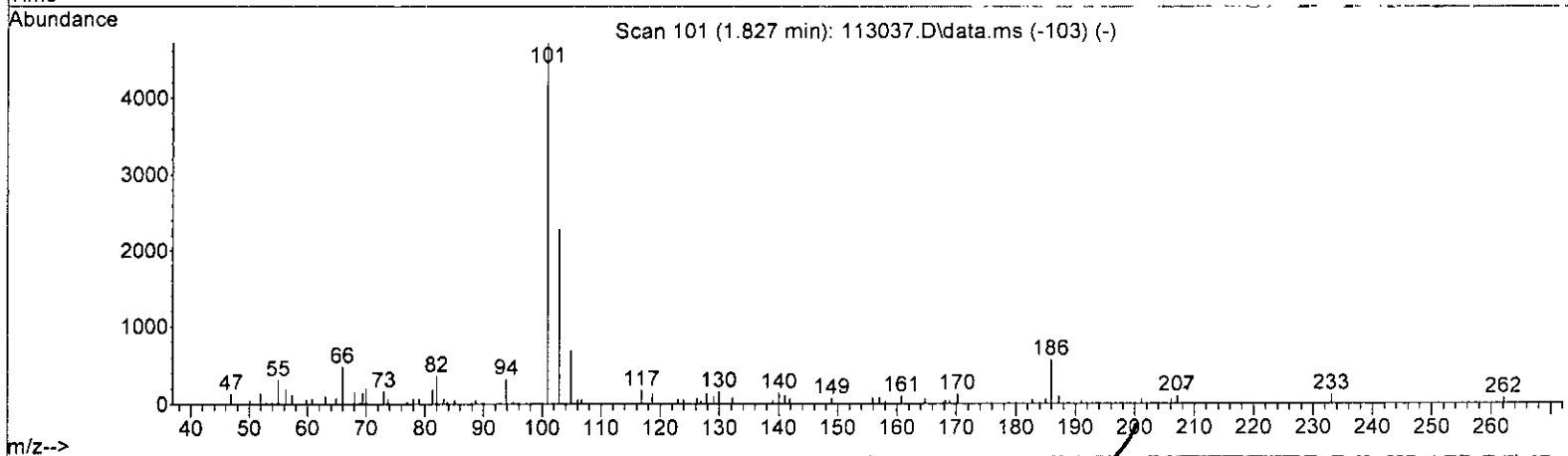
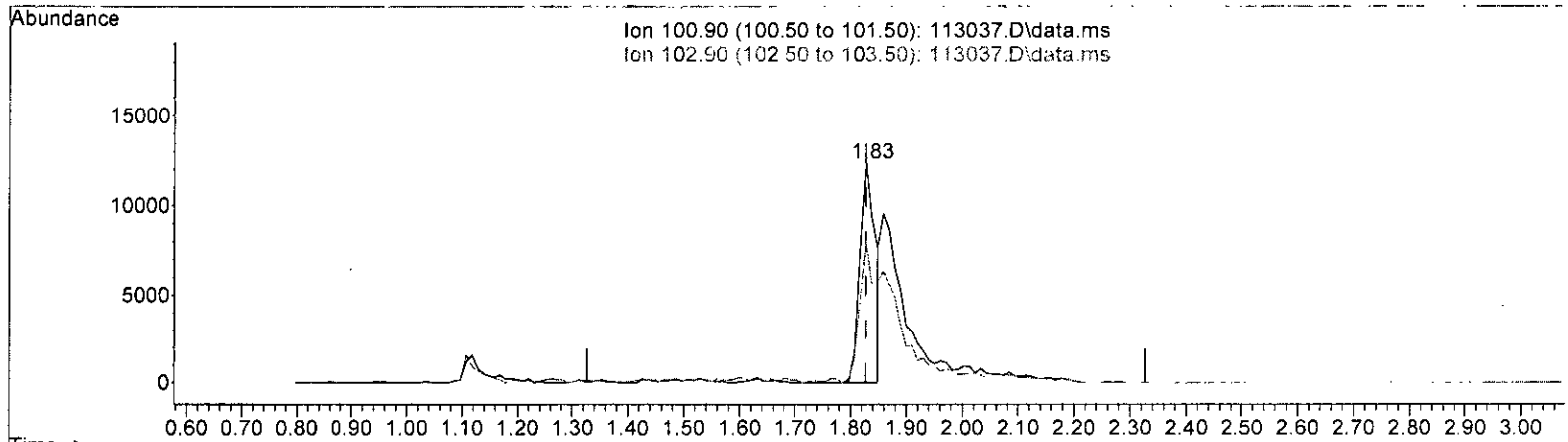
Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113037.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.827min (+ 0.000) 1.804 ppb

response 23781

Ion	Exp%	Act%
100.90	100.00	100.00
102.90	67.50	64.84
0.00	0.00	0.00
0.00	0.00	0.00

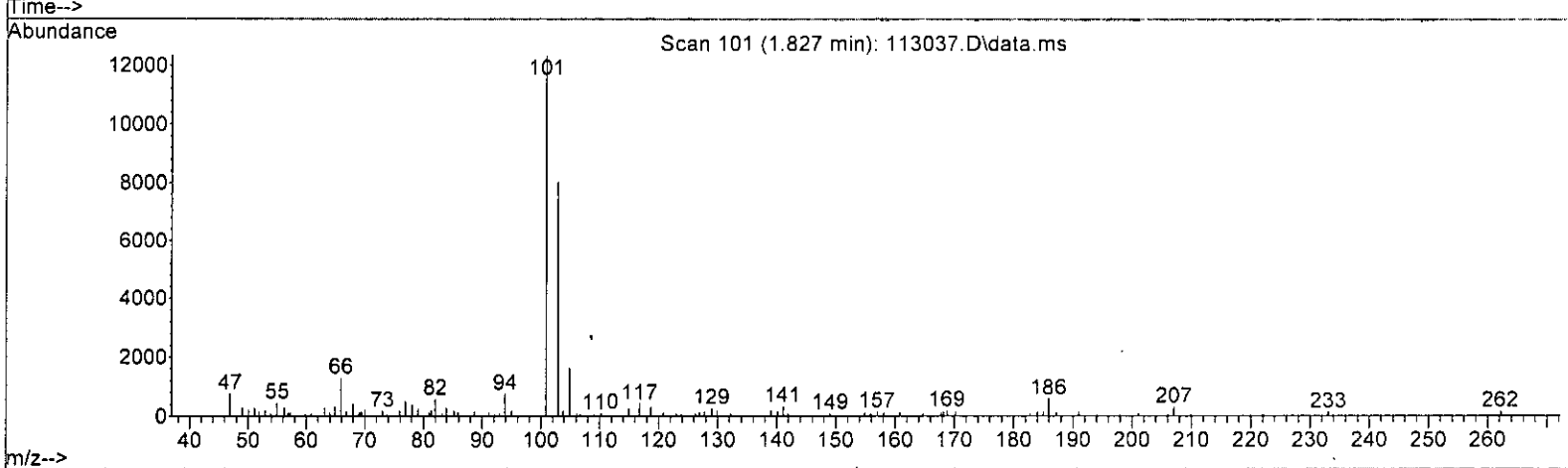
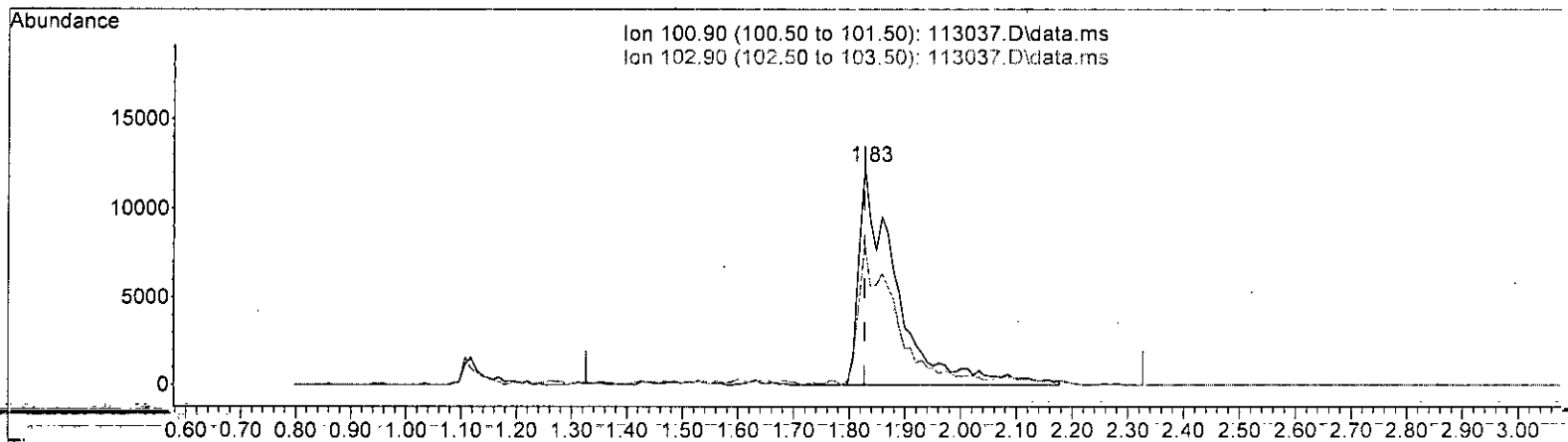
m 12.1



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113037.D\data.ms

(9) Trichlorofluoromethane (TMP)		
1.827min (+ 0.000)	4.544 ppb m	
response	59909	
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	67.50	64.84
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.1*

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	129854	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.41	117	107689	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	65984	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.18	113	39511	9.551	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	95.50%	
30) 1,2-Dichloroethane-d4	4.45	102	7603	9.806	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	98.10%	
35) Toluene-d8	6.11	98	115607	9.904	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	99.00%	
57) 4-Bromofluorobenzene	8.51	95	38845	9.715	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	97.20%	
Target Compounds							
2) Ethanol	2.33	45	184	No Calib			Qvalue
4) Dichlorodifluoromethane	1.12	85	32172	4.254	ppb		96
5) Chloromethane	1.25	50	23150	4.620	ppb		94
6] Vinyl chloride	1.34	62	23945	4.941	ppb		95
7) Bromomethane	1.58	94	26145	5.228	ppb		98
8] Chloroethane	1.64	64	12396	4.778	ppb		95
9) Trichlorofluoromethane	1.83	101	59909m	4.544	ppb		
10) 2-Propanol	2.33	45	184	No Calib	#		
11) Acetone	2.32	58	6091	19.857	ppb		88
12] 1,1-Dichloroethene	2.27	96	15882	4.933	ppb		90
13) Hexane	3.16	57	13879	4.510	ppb		98
14) Methylene chloride	2.68	84	16694	4.684	ppb		97
15) t-Butyl alcohol (TBA)	2.82	59	6604	22.808	ppb		97
16] Methyl t-butyl ether (...)	2.93	73	37520	4.850	ppb		96
17] trans-1,2-Dichloroethene	2.91	96	17151	4.814	ppb		95
18) Diisopropyl ether (DIPE)	3.35	45	31578	4.558	ppb		97
19] 1,1-Dichloroethane	3.27	63	20992	4.746	ppb		98
20) Ethyl t-butyl ether (E...)	3.65	87	18031	4.835	ppb		96
21) 2,2-Dichloropropane	3.76	77	14318	4.325	ppb		98
22] cis-1,2-Dichloroethene	3.77	96	18981	4.934	ppb		97
23) Chloroform	4.04	83	26201	4.570	ppb		97
24) 2-Butanone (MEK)	3.80	43	28257	19.631	ppb		95
25) t-Amyl methyl ether (T...)	4.61	73	33880	4.738	ppb		98
26] 1,2-Dichloroethane (EDC)	4.52	62	19511	4.923	ppb		99
27] 1,1,1-Trichloroethane	4.19	97	28955	4.766	ppb		98
28) 1,1-Dichloropropene	4.33	75	19402	4.668	ppb		98
29) Carbon tetrachloride	4.33	117	28979	4.490	ppb		96
31] Benzene	4.50	78	51552	5.011	ppb		99
32] Trichloroethene	5.05	95	18129	4.591	ppb		97
33) 1,2-Dichloropropane	5.24	63	10977	4.949	ppb		99
34) Bromodichloromethane	5.48	83	18815	4.580	ppb		93
36) Dibromomethane	5.35	93	10591	4.723	ppb	#	81

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

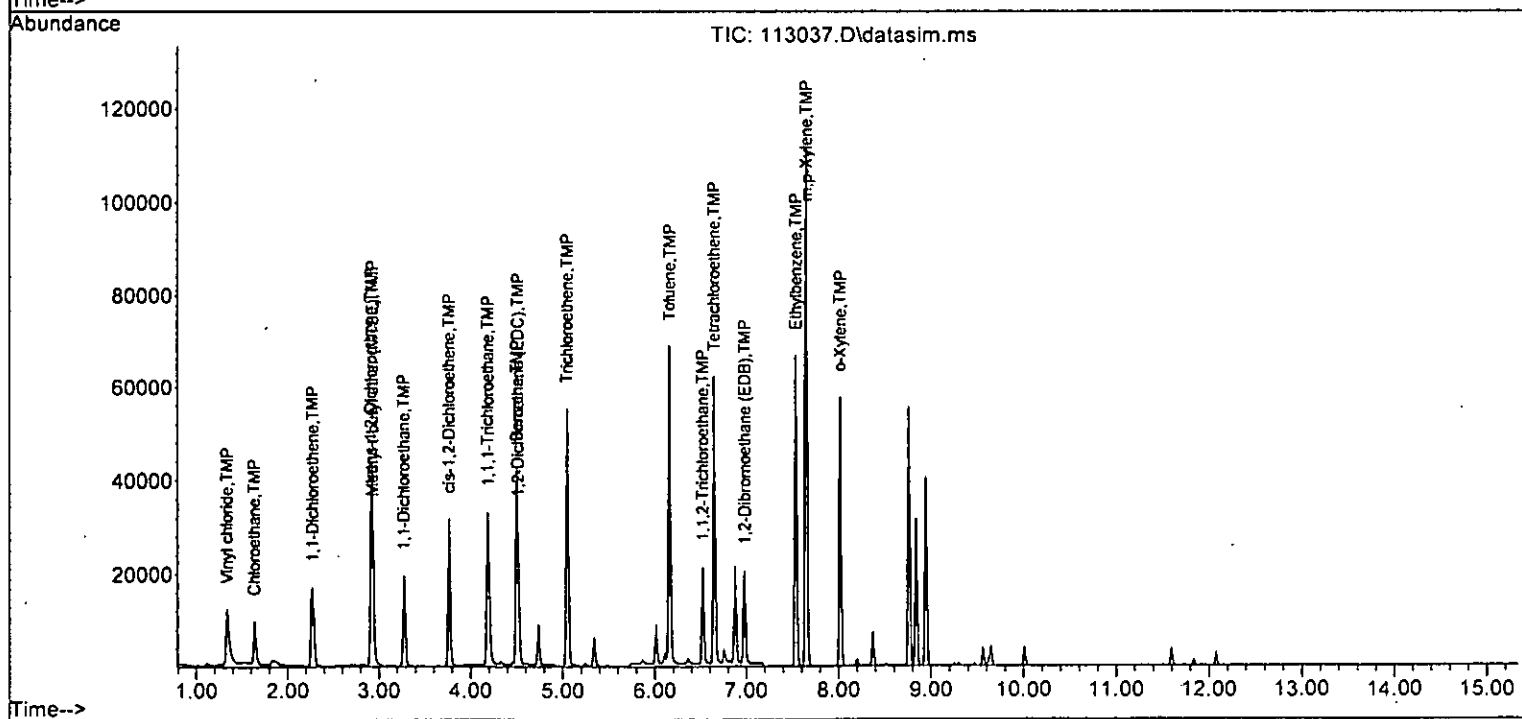
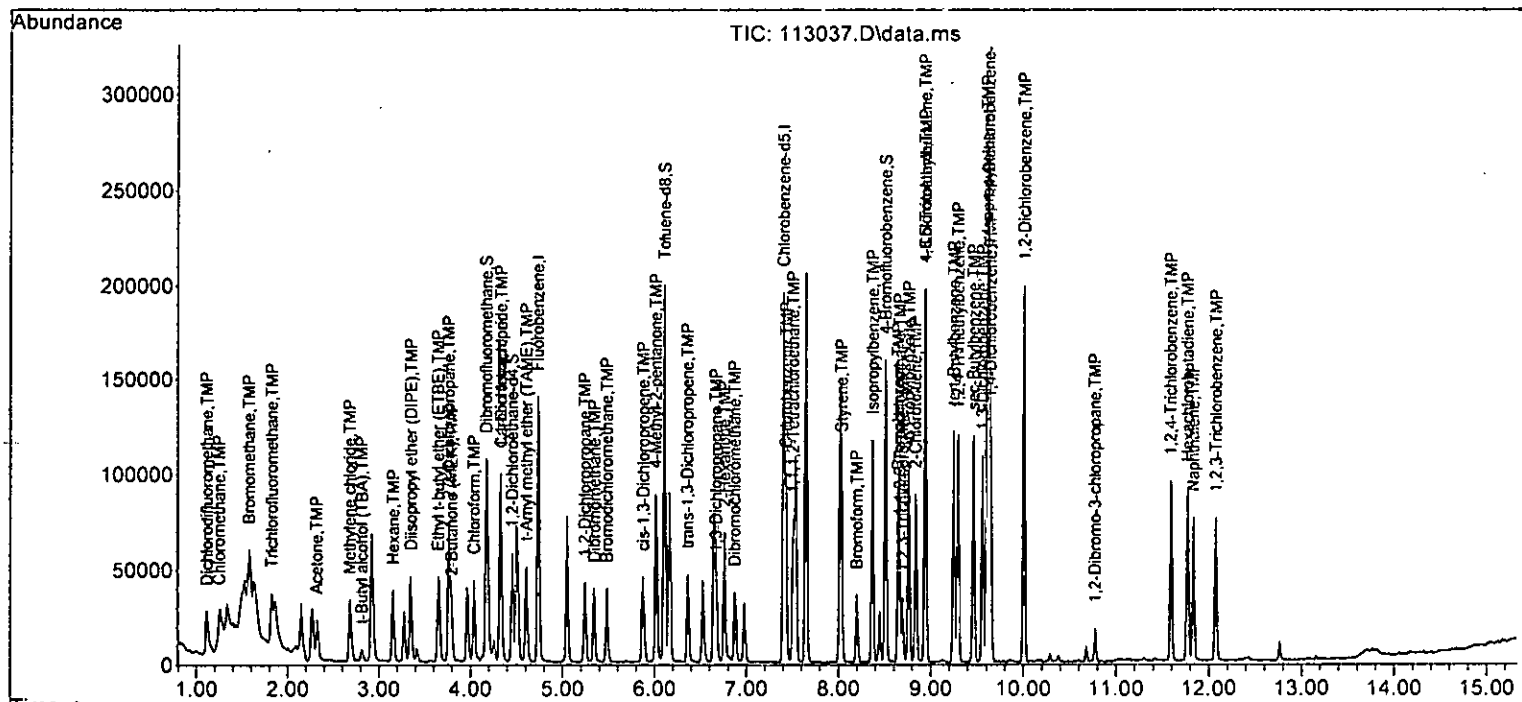
Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	12011	23.304	ppb	91
38) cis-1,3-Dichloropropene	5.88	75	19613	4.598	ppb	99
40] Toluene	6.16	92	36804	4.912	ppb	100
41) trans-1,3-Dichloropropene	6.36	75	18328	4.784	ppb	96
42] 1,1,2-Trichloroethane	6.53	83	10262	4.867	ppb	99
43) 2-Hexanone	6.76	43	38235	25.087	ppb	98
44) 1,3-Dichloropropane	6.67	76	17532	4.817	ppb	96
45] Tetrachloroethene	6.65	164	22250	4.738	ppb	99
46) Dibromochloromethane	6.87	129	21811	4.763	ppb	98
47] 1,2-Dibromoethane (EDB)	6.98	107	17032	5.038	ppb	88
48) Chlorobenzene	7.43	112	47426	4.670	ppb	98
49] Ethylbenzene	7.54	91	67881	5.054	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	20556	4.625	ppb	97
51] m,p-Xylene	7.65	106	59630	10.084	ppb	99
52] o-Xylene	8.02	106	29108	4.938	ppb	98
53) Styrene	8.03	104	44342	4.853	ppb	98
54) Isopropylbenzene	8.37	105	68614	4.709	ppb	96
55) Bromoform	8.20	173	15332	4.708	ppb	94
58) n-Propylbenzene	8.77	91	71579	4.806	ppb	99
59) Bromobenzene	8.65	156	25481	4.702	ppb	99
60) 1,3,5-Trimethylbenzene	8.94	105	57753	4.768	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.66	83	14434	5.102	ppb	97
62) 1,2,3-Trichloropropane	8.70	75	10256	4.607	ppb	96
63) 2-Chlorotoluene	8.84	91	41767	4.936	ppb	96
64) 4-Chlorotoluene	8.94	91	48910	4.776	ppb	89
65) tert-Butylbenzene	9.25	119	59123	4.604	ppb	98
66) 1,2,4-Trimethylbenzene	9.30	105	59952	4.600	ppb	99
67) sec-Butylbenzene	9.46	105	74302	4.700	ppb	97
68) p-Isopropyltoluene	9.61	119	74100	4.680	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	46158	4.739	ppb	98
70) 1,4-Dichlorobenzene	9.64	146	46132	4.803	ppb	93
71) 1,2-Dichlorobenzene	10.01	146	43108	4.594	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.77	75	3066	5.131	ppb	86
73) 1,2,4-Trichlorobenzene	11.59	180	30451	4.628	ppb	99
74) Hexachlorobutadiene	11.77	225	17476	4.507	ppb	100
75) Naphthalene	11.83	128	58358	4.563	ppb	95
76) 1,2,3-Trichlorobenzene	12.08	180	23400	4.493	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	9.551	4.5	100	0.00
4 TMP Dichlorodifluoromethane	5.000	4.254	14.9	95	0.01
5 TMP Chloromethane	5.000	4.620	7.6	100	0.00
6 TMP Vinyl chloride	5.000	4.941	1.2	103	0.01
7 TMP Bromomethane	5.000	5.228	-4.6	94	0.01
8 TMP Chloroethane	5.000	4.778	4.4	105	0.00
9 TMP Trichlorofluoromethane	5.000	4.544	9.1	101	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	25.000	19.857	20.6#	100	0.00
12 TMP 1,1-Dichloroethene	5.000	4.933	1.3	109	0.01
13 TMP Hexane	5.000	4.510	9.8	100	0.00
14 TMP Methylene chloride	5.000	4.684	6.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	25.000	22.808	8.8	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	5.000	4.850	3.0	100	0.01
17 TMP trans-1,2-Dichloroethene	5.000	4.814	3.7	104	0.00
18 TMP Diisopropyl ether (DIPE)	5.000	4.558	8.8	100	0.01
19 TMP 1,1-Dichloroethane	5.000	4.746	5.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	5.000	4.835	3.3	100	0.00
21 TMP 2,2-Dichloropropane	5.000	4.325	13.5	100	0.00
22 TMP cis-1,2-Dichloroethene	5.000	4.934	1.3	106	0.00
23 TMP Chloroform	5.000	4.570	8.6	100	0.00
24 TMP 2-Butanone (MEK)	25.000	19.631	21.5#	100	0.01
25 TMP t-Amyl methyl ether (TAME)	5.000	4.738	5.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	5.000	4.923	1.5	100	0.00
27 TMP 1,1,1-Trichloroethane	5.000	4.766	4.7	100	0.00
28 TMP 1,1-Dichloropropene	5.000	4.668	6.6	100	0.00
29 TMP Carbon tetrachloride	5.000	4.490	10.2	100	0.00
30 5 1,2-Dichloroethane-d4	10.000	9.806	1.9	100	0.00
31 TMP Benzene	5.000	5.011	-0.2	100	0.00
32 TMP Trichloroethene	5.000	4.591	8.2	100	0.00
33 TMP 1,2-Dichloropropane	5.000	4.949	1.0	100	0.00
34 TMP Bromodichloromethane	5.000	4.580	8.4	100	0.00
35 S Toluene-d8	10.000	9.904	1.0	100	0.00
36 TMP Dibromomethane	5.000	4.723	5.5	100	0.01
37 TMP 4-Methyl-2-pentanone	25.000	23.304	6.8	100	0.00
38 TMP cis-1,3-Dichloropropene	5.000	4.598	8.0	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	5.000	4.912	1.8	100	0.00
41 TMP trans-1,3-Dichloropropene	5.000	4.784	4.3	100	0.00
42 TMP 1,1,2-Trichloroethane	5.000	4.867	2.7	100	0.00
43 TMP 2-Hexanone	25.000	25.087	-0.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	5.000	4.817	3.7	100	0.00
45 TMP Tetrachloroethene	5.000	4.738	5.2	100	0.00
46 TMP Dibromochloromethane	5.000	4.763	4.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	5.000	5.038	-0.8	100	0.01
48 TMP Chlorobenzene	5.000	4.670	6.6	100	0.00
49 TMP Ethylbenzene	5.000	5.054	-1.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	5.000	4.625	7.5	100	0.00
51 TMP m,p-Xylene	10.000	10.084	-0.8	100	0.00
52 TMP o-Xylene	5.000	4.938	1.2	100	0.00
53 TMP Styrene	5.000	4.853	2.9	100	0.00
54 TMP Isopropylbenzene	5.000	4.709	5.8	100	0.00
55 TMP Bromoform	5.000	4.708	5.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.715	2.9	100	0.00
58 TMP n-Propylbenzene	5.000	4.806	3.9	100	0.00
59 TMP Bromobenzene	5.000	4.702	6.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	5.000	4.768	4.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	5.000	5.102	-2.0	100	0.00
62 TMP 1,2,3-Trichloropropane	5.000	4.607	7.9	100	0.00
63 TMP 2-Chlorotoluene	5.000	4.936	1.3	100	0.00
64 TMP 4-Chlorotoluene	5.000	4.776	4.5	100	0.00
65 TMP tert-Butylbenzene	5.000	4.604	7.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	5.000	4.600	8.0	100	0.00
67 TMP sec-Butylbenzene	5.000	4.700	6.0	100	0.00
68 TMP p-Isopropyltoluene	5.000	4.680	6.4	100	0.00
69 TMP 1,3-Dichlorobenzene	5.000	4.739	5.2	100	0.00
70 TMP 1,4-Dichlorobenzene	5.000	4.803	3.9	100	0.00
71 TMP 1,2-Dichlorobenzene	5.000	4.594	8.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	5.000	5.131	-2.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	5.000	4.628	7.4	100	0.00
74 TMP Hexachlorobutadiene	5.000	4.507	9.9	100	0.00
75 TMP Naphthalene	5.000	4.563	8.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	5.000	4.493	10.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

## Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM513\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCM513

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	100	0.00
3 S	Dibromofluoromethane	0.319	0.304	4.7	100	0.00
4 TMP	Dichlorodifluoromethane	0.582	0.496	14.8	95	0.01
5 TMP	Chloromethane	0.386	0.357	7.5	100	0.00
6 TMP	Vinyl chloride	0.373	0.369	1.1	103	0.01
7 TMP	Bromomethane	0.385	0.403	-4.7	94	0.01
8 TMP	Chloroethane	0.200	0.191	4.5	105	0.00
9 TMP	Trichlorofluoromethane	1.015	0.923	9.1	101	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.022	0.019	13.6	100	0.00
12 TMP	1,1-Dichloroethene	0.248	0.245	1.2	109	0.01
13 TMP	Hexane	0.236	0.214	9.3	100	0.00
14 TMP	Methylene chloride	0.247	0.257	-4.0	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.022	0.020#	9.1	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	0.596	0.578	3.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.274	0.264	3.6	104	0.00
18 TMP	Diisopropyl ether (DIPE)	0.533	0.486#	8.8	100	0.01
19 TMP	1,1-Dichloroethane	0.341	0.323	5.3	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.287	0.278	3.1	100	0.00
21 TMP	2,2-Dichloropropane	0.297	0.221	25.6#	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.296	0.292	1.4	106	0.00
23 TMP	Chloroform	0.441	0.404	8.4	100	0.00
24 TMP	2-Butanone (MEK)	0.102	0.087	14.7	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.551	0.522	5.3	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.334	0.301	9.9	100	0.00
27 TMP	1,1,1-Trichloroethane	0.468	0.446	4.7	100	0.00
28 TMP	1,1-Dichloropropene	0.320	0.299	6.6	100	0.00
29 TMP	Carbon tetrachloride	0.497	0.446	10.3	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.059	1.7	100	0.00
31 TMP	Benzene	0.849	0.794	6.5	100	0.00
32 TMP	Trichloroethene	0.304	0.279	8.2	100	0.00
33 TMP	1,2-Dichloropropane	0.189	0.169	10.6	100	0.00
34 TMP	Bromodichloromethane	0.316	0.290	8.2	100	0.00
35 S	Toluene-d8	0.899	0.890	1.0	100	0.00
36 TMP	Dibromomethane	0.173	0.163	5.8	100	0.01
37 TMP	4-Methyl-2-pentanone	0.040	0.037	7.5	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.329	0.302	8.2	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.719	0.684	4.9	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.356	0.340	4.5	100	0.00
42 TMP	1,1,2-Trichloroethane	0.204	0.191	6.4	100	0.00
43 TMP	2-Hexanone	0.142	0.142	0.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.326	3.6	100	0.00
45 TMP Tetrachloroethene	0.443	0.413	6.8	100	0.00
46 TMP Dibromochloromethane	0.425	0.405	4.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.316	5.7	100	0.01
48 TMP Chlorobenzene	0.943	0.881	6.6	100	0.00
49 TMP Ethylbenzene	1.560	1.261	19.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.382	7.5	100	0.00
51 TMP m,p-Xylene	0.718	0.554	22.8#	100	0.00
52 TMP o-Xylene	0.611	0.541	11.5	100	0.00
53 TMP Styrene	0.848	0.824	2.8	100	0.00
54 TMP Isopropylbenzene	1.353	1.274	5.8	100	0.00
55 TMP Bromoform	0.302	0.285	5.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.589	2.8	100	0.00
58 TMP n-Propylbenzene	2.257	2.170	3.9	100	0.00
59 TMP Bromobenzene	0.821	0.772	6.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.751	4.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.438#	-1.2	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.311#	7.7	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.266	1.2	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.482	4.5	100	0.00
65 TMP tert-Butylbenzene	1.946	1.792	7.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.817	8.0	100	0.00
67 TMP sec-Butylbenzene	2.396	2.252	6.0	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.246	6.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.399	5.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.398	4.0	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.307	8.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.093	-2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.923	7.4	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.530	9.9	100	0.00
75 TMP Naphthalene	1.938	1.769	8.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.709	10.1	100	0.00

(#) = Out of Range

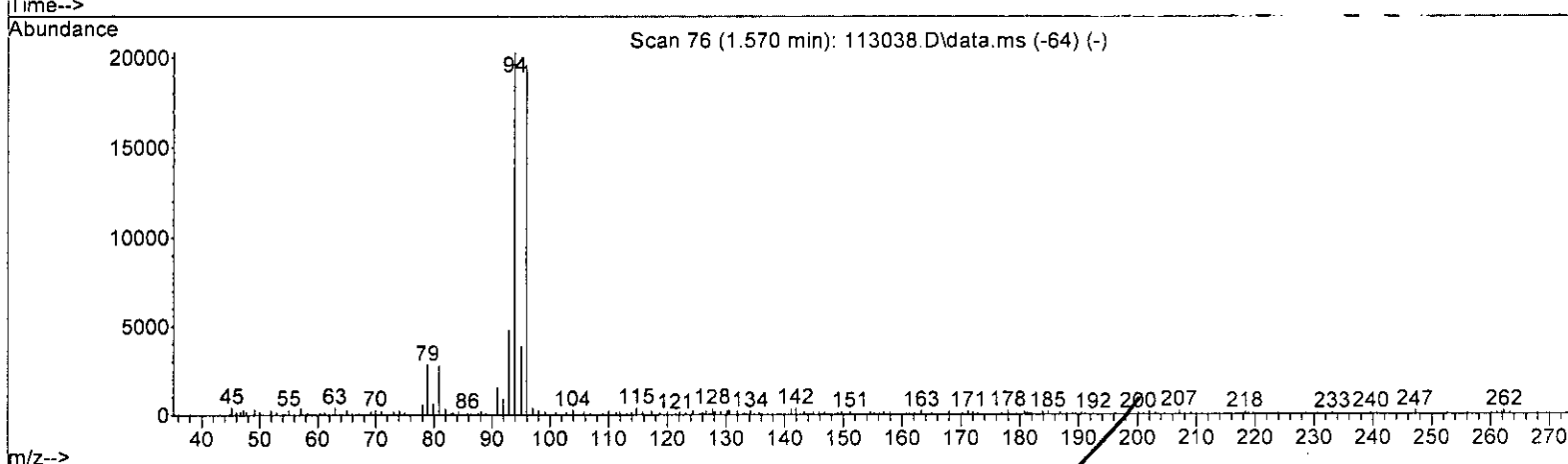
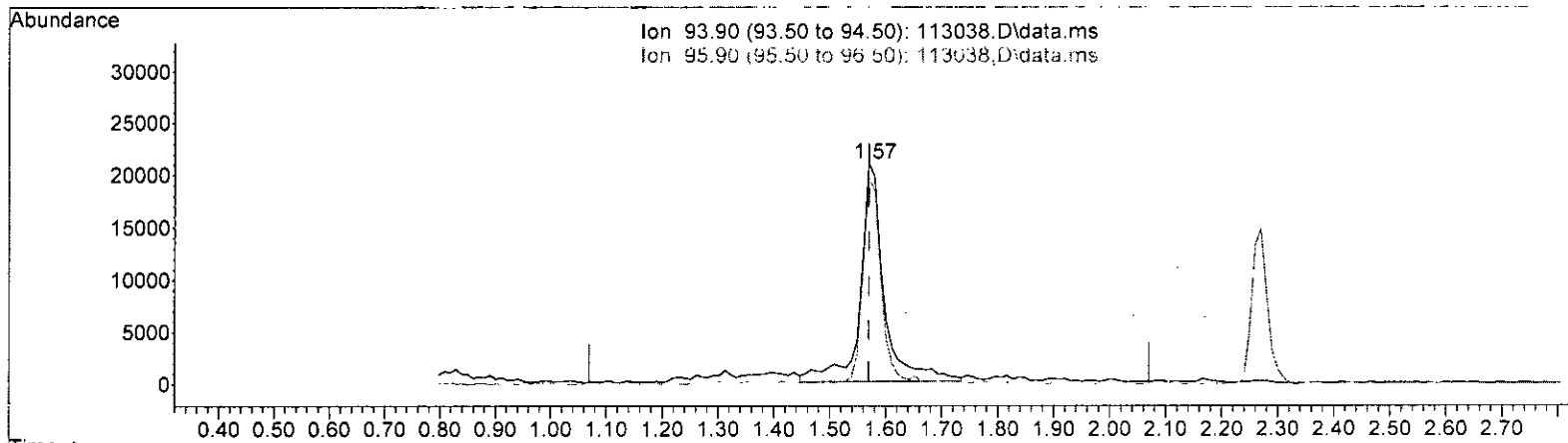
SPCC's out = 5 CCC's out = 0



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



TIC: 113038.D\data.ms

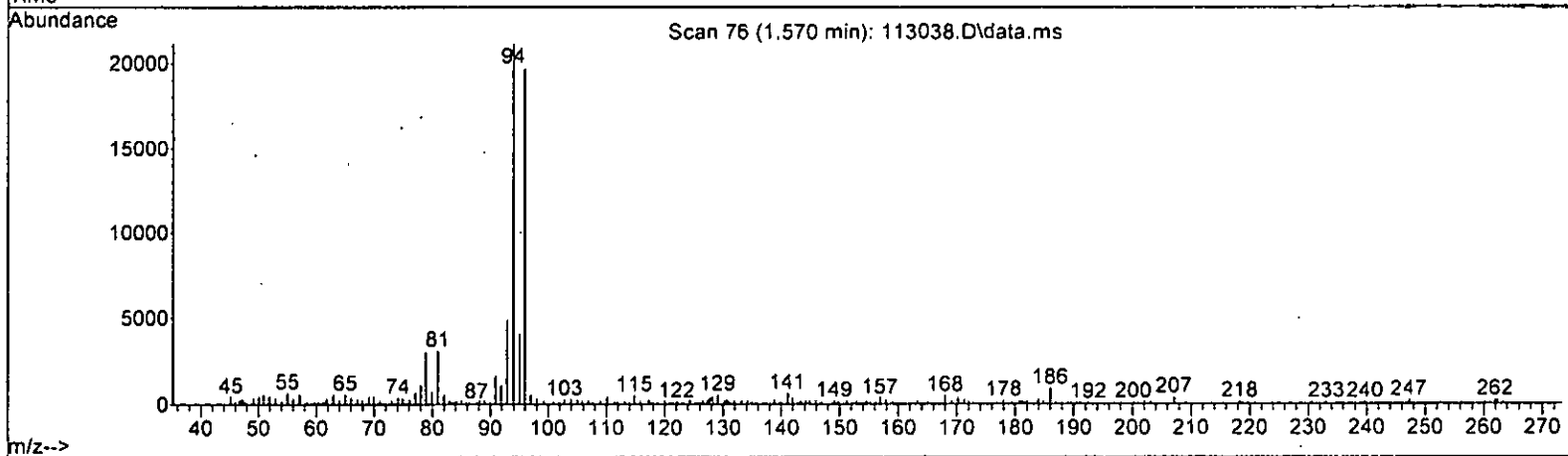
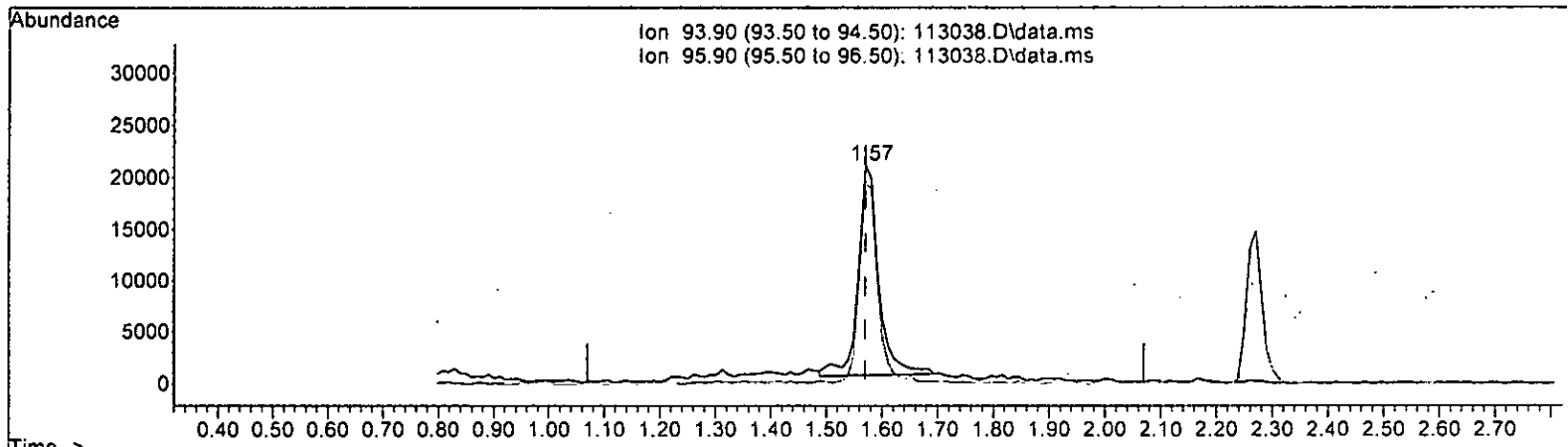
*LM 12.1*

(7) Bromomethane (TMP)		
1.570min (-0.000) 14.071 ppb		
response	62487	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	93.10	95.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113038.D\data.ms

(7) Bromomethane (TMP)

1.570min (-0.000) 11.664 ppb m

response 51800

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	93.10	93.07
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.1*

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	115315	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	105054	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	65344	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.18	113	38323	10.432	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	104.30%	
30) 1,2-Dichloroethane-d4	4.45	102	7093	10.302	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	103.00%	
35) Toluene-d8	6.11	98	109418	10.556	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	105.60%	
57) 4-Bromofluorobenzene	8.51	95	39719	10.031	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	100.30%	
Target Compounds						
2) Ethanol	2.33	45	419	No Calib		Qvalue
4) Dichlorodifluoromethane	1.11	85	69482	10.345	ppb	100
5) Chloromethane	1.25	50	46218	10.386	ppb	100
6] Vinyl chloride	1.33	62	50060	11.633	ppb	99
7) Bromomethane	1.57	94	51800m	11.664	ppb	
8] Chloroethane	1.64	64	25265	10.966	ppb	95
9) Trichlorofluoromethane	1.83	101	123433	10.542	ppb	100
10) 2-Propanol	2.33	45	419	No Calib		
11) Acetone	2.32	58	13525	47.079	ppb	100
12] 1,1-Dichloroethene	2.26	96	31295	10.947	ppb	100
13) Hexane	3.16	57	28725	10.771	ppb	100
14) Methylene chloride	2.68	84	29624	10.091	ppb	100
15) t-Butyl alcohol (TBA)	2.81	59	13104	50.962	ppb	100
16] Methyl t-butyl ether (...)	2.92	73	74899	10.903	ppb	100
17] trans-1,2-Dichloroethene	2.91	96	34163	10.797	ppb	100
18) Diisopropyl ether (DIPE)	3.34	45	70404	11.444	ppb	100
19] 1,1-Dichloroethane	3.27	63	44407	11.305	ppb	100
20) Ethyl t-butyl ether (E...)	3.65	87	34900	10.539	ppb	100
21) 2,2-Dichloropropane	3.76	77	30998	10.987	ppb	100
22] cis-1,2-Dichloroethene	3.77	96	37747	11.049	ppb	100
23) Chloroform	4.04	83	53228	10.455	ppb	100
24) 2-Butanone (MEK)	3.78	43	63901	49.387	ppb	100
25) t-Amyl methyl ether (T...)	4.61	73	68049	10.716	ppb	100
26] 1,2-Dichloroethane (EDC)	4.52	62	38861	11.065	ppb	100
27] 1,1,1-Trichloroethane	4.19	97	58981	10.932	ppb	100
28) 1,1-Dichloropropene	4.33	75	38127	10.329	ppb	100
29) Carbon tetrachloride	4.33	117	58288	10.169	ppb	100
31] Benzene	4.50	78	103415	11.337	ppb	100
32] Trichloroethene	5.05	95	39237	11.190	ppb	100
33) 1,2-Dichloropropane	5.24	63	21732	11.259	ppb	100
34) Bromodichloromethane	5.48	83	38161	10.459	ppb	100
36) Dibromomethane	5.34	93	21279	10.686	ppb	100

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

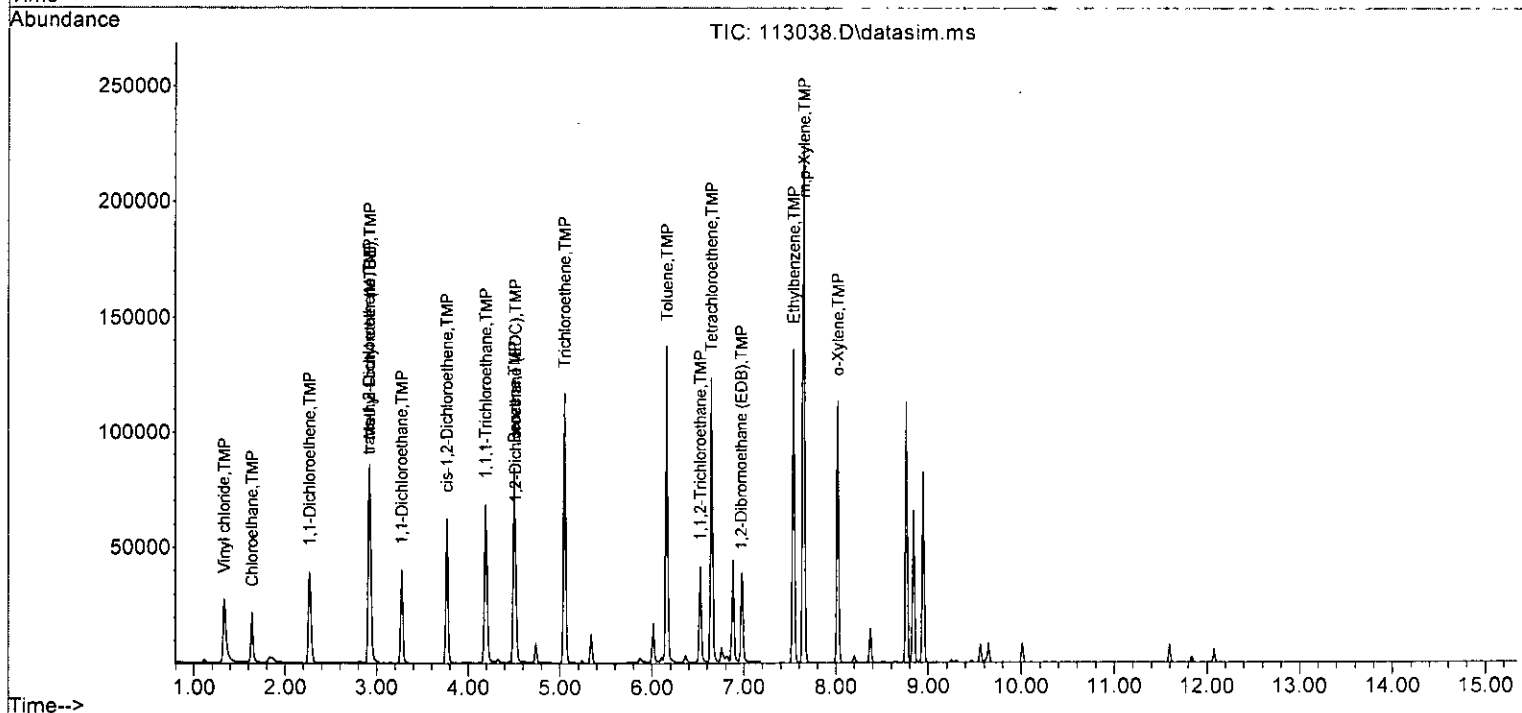
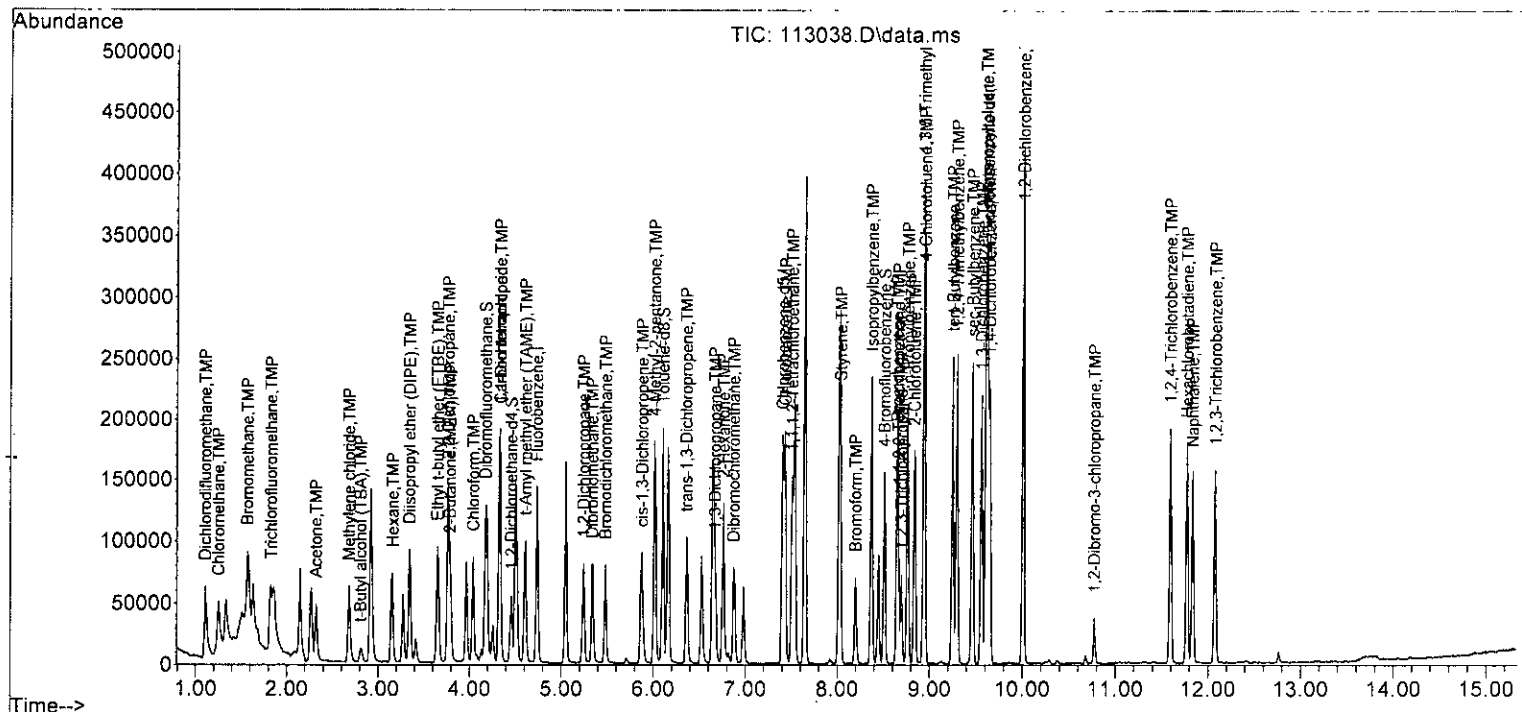
Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	23794	51.987	ppb	100
38) cis-1,3-Dichloropropene	5.88	75	38733	10.225	ppb	100
40] Toluene	6.16	92	73772	10.099	ppb	100
41) trans-1,3-Dichloropropene	6.36	75	36112	9.662	ppb	100
42] 1,1,2-Trichloroethane	6.53	83	20912	10.176	ppb	100
43) 2-Hexanone	6.76	43	73083	49.155	ppb	100
44) 1,3-Dichloropropane	6.67	76	35746	10.068	ppb	100
45] Tetrachloroethene	6.65	164	44699	9.785	ppb	100
46) Dibromochloromethane	6.87	129	44422	9.945	ppb	100
47] 1,2-Dibromoethane (EDB)	6.97	107	34508	10.477	ppb	100
48) Chlorobenzene	7.43	112	98737	9.966	ppb	100
49] Ethylbenzene	7.54	91	136665	10.483	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	42524	9.808	ppb	100
51] m,p-Xylene	7.65	106	119397	20.826	ppb	100
52] o-Xylene	8.02	106	58623	10.219	ppb	100
53) Styrene	8.03	104	88055	9.879	ppb	100
54) Isopropylbenzene	8.37	105	141249	9.936	ppb	100
55) Bromoform	8.20	173	31165	9.810	ppb	100
58) n-Propylbenzene	8.77	91	144942	9.826	ppb	100
59) Bromobenzene	8.65	156	52837	9.846	ppb	100
60) 1,3,5-Trimethylbenzene	8.94	105	116069	9.676	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.66	83	27281	9.751	ppb	100
62) 1,2,3-Trichloropropane	8.70	75	22181	10.061	ppb	99
63) 2-Chlorotoluene	8.84	91	82958	9.899	ppb	100
64) 4-Chlorotoluene	8.95	91	101169	9.976	ppb	100
65) tert-Butylbenzene	9.25	119	124244	9.770	ppb	100
66) 1,2,4-Trimethylbenzene	9.30	105	122955	9.527	ppb	100
67) sec-Butylbenzene	9.46	105	153843	9.827	ppb	100
68) p-Isopropyltoluene	9.61	119	152952	9.754	ppb	100
69) 1,3-Dichlorobenzene	9.56	146	94615	9.809	ppb	100
70) 1,4-Dichlorobenzene	9.64	146	93635	9.844	ppb	100
71) 1,2-Dichlorobenzene	10.01	146	89525	9.635	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.77	75	5497	9.289	ppb	100
73) 1,2,4-Trichlorobenzene	11.59	180	64018	9.824	ppb	100
74) Hexachlorobutadiene	11.77	225	36528	9.513	ppb	100
75) Naphthalene	11.83	128	121672	9.606	ppb	100
76) 1,2,3-Trichlorobenzene	12.08	180	48968	9.495	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	10.432	-4.3	100	0.00
4 TMP Dichlorodifluoromethane	10.000	10.345	-3.5	100	0.00
5 TMP Chloromethane	10.000	10.386	-3.9	100	0.00
6 TMP Vinyl chloride	10.000	11.633	-16.3	100	0.00
7 TMP Bromomethane	10.000	11.664	-16.6	103	0.00
8 TMP Chloroethane	10.000	10.966	-9.7	100	0.00
9 TMP Trichlorofluoromethane	10.000	10.542	-5.4	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	47.079	5.8	100	0.00
12 TMP 1,1-Dichloroethene	10.000	10.947	-9.5	100	0.00
13 TMP Hexane	10.000	10.771	-7.7	100	0.00
14 TMP Methylene chloride	10.000	10.091	-0.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	50.962	-1.9	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.903	-9.0	100	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.797	-8.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	11.444	-14.4	100	0.00
19 TMP 1,1-Dichloroethane	10.000	11.305	-13.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.539	-5.4	100	0.00
21 TMP 2,2-Dichloropropane	10.000	10.987	-9.9	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	11.049	-10.5	100	0.00
23 TMP Chloroform	10.000	10.455	-4.6	100	0.00
24 TMP 2-Butanone (MEK)	50.000	49.387	1.2	100	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	10.716	-7.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	11.065	-10.6	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.932	-9.3	100	0.00
28 TMP 1,1-Dichloropropene	10.000	10.329	-3.3	100	0.00
29 TMP Carbon tetrachloride	10.000	10.169	-1.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.302	-3.0	100	0.00
31 TMP Benzene	10.000	11.337	-13.4	100	0.00
32 TMP Trichloroethene	10.000	11.190	-11.9	100	0.00
33 TMP 1,2-Dichloropropane	10.000	11.259	-12.6	100	0.00
34 TMP Bromodichloromethane	10.000	10.459	-4.6	100	0.00
35 S Toluene-d8	10.000	10.556	-5.6	100	0.00
36 TMP Dibromomethane	10.000	10.686	-6.9	100	0.00
37 TMP 4-Methyl-2-pentanone	50.000	51.987	-4.0	100	0.00
38 TMP cis-1,3-Dichloropropene	10.000	10.225	-2.2	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	10.000	10.099	-1.0	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.662	3.4	100	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.176	-1.8	100	0.00
43 TMP 2-Hexanone	50.000	49.155	1.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.068	-0.7	100	0.00
45 TMP Tetrachloroethene	10.000	9.785	2.1	100	0.00
46 TMP Dibromochloromethane	10.000	9.945	0.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.477	-4.8	100	0.00
48 TMP Chlorobenzene	10.000	9.966	0.3	100	0.00
49 TMP Ethylbenzene	10.000	10.483	-4.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.808	1.9	100	0.00
51 TMP m,p-Xylene	20.000	20.826	-4.1	100	0.00
52 TMP o-Xylene	10.000	10.219	-2.2	100	0.00
53 TMP Styrene	10.000	9.879	1.2	100	0.00
54 TMP Isopropylbenzene	10.000	9.936	0.6	100	0.00
55 TMP Bromoform	10.000	9.810	1.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.031	-0.3	100	0.00
58 TMP n-Propylbenzene	10.000	9.826	1.7	100	0.00
59 TMP Bromobenzene	10.000	9.846	1.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.676	3.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.751	2.5	100	0.00
62 TMP 1,2,3-Trichloropropane	10.000	10.061	-0.6	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.899	1.0	100	0.00
64 TMP 4-Chlorotoluene	10.000	9.976	0.2	100	0.00
65 TMP tert-Butylbenzene	10.000	9.770	2.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.527	4.7	100	0.00
67 TMP sec-Butylbenzene	10.000	9.827	1.7	100	0.00
68 TMP p-Isopropyltoluene	10.000	9.754	2.5	100	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.809	1.9	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.844	1.6	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.635	3.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.289	7.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.824	1.8	100	0.00
74 TMP Hexachlorobutadiene	10.000	9.513	4.9	100	0.00
75 TMP Naphthalene	10.000	9.606	3.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.495	5.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.332	-4.1	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.603	-3.6	100	0.00
5 TMP Chloromethane	0.386	0.401	-3.9	100	0.00
6 TMP Vinyl chloride	0.373	0.434	-16.4	100	0.00
7 TMP Bromomethane	0.385	0.449	-16.6	103	0.00
8 TMP Chloroethane	0.200	0.219	-9.5	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.070	-5.4	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.023	-4.5	100	0.00
12 TMP 1,1-Dichloroethene	0.248	0.271	-9.3	100	0.00
13 TMP Hexane	0.236	0.249	-5.5	100	0.00
14 TMP Methylene chloride	0.247	0.257	-4.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.023#	-4.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.650	-9.1	100	0.00
17 TMP trans-1,2-Dichloroethene	0.274	0.296	-8.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.533	0.611	-14.6	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.385	-12.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.303	-5.6	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.269	9.4	100	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.327	-10.5	100	0.00
23 TMP Chloroform	0.441	0.462	-4.8	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.111	-8.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.551	0.590	-7.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.337	-0.9	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.511	-9.2	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.331	-3.4	100	0.00
29 TMP Carbon tetrachloride	0.497	0.505	-1.6	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.849	0.897	-5.7	100	0.00
32 TMP Trichloroethene	0.304	0.340	-11.8	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.188	0.5	100	0.00
34 TMP Bromodichloromethane	0.316	0.331	-4.7	100	0.00
35 S Toluene-d8	0.899	0.949	-5.6	100	0.00
36 TMP Dibromomethane	0.173	0.185	-6.9	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.041	-2.5	100	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.336	-2.1	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.702	2.4	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.344	3.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.199	2.5	100	0.00
43 TMP 2-Hexanone	0.142	0.139	2.1	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.340	-0.6	100	0.00
45 TMP Tetrachloroethene	0.443	0.425	4.1	100	0.00
46 TMP Dibromochloromethane	0.425	0.423	0.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.328	2.1	100	0.00
48 TMP Chlorobenzene	0.943	0.940	0.3	100	0.00
49 TMP Ethylbenzene	1.560	1.301	16.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.405	1.9	100	0.00
51 TMP m,p-Xylene	0.718	0.568	20.9#	100	0.00
52 TMP o-Xylene	0.611	0.558	8.7	100	0.00
53 TMP Styrene	0.848	0.838	1.2	100	0.00
54 TMP Isopropylbenzene	1.353	1.345	0.6	100	0.00
55 TMP Bromoform	0.302	0.297	1.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.608	-0.3	100	0.00
58 TMP n-Propylbenzene	2.257	2.218	1.7	100	0.00
59 TMP Bromobenzene	0.821	0.809	1.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.776	3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.417#	3.7	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.339#	-0.6	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.270	0.9	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.548	0.3	100	0.00
65 TMP tert-Butylbenzene	1.946	1.901	2.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.882	4.7	100	0.00
67 TMP sec-Butylbenzene	2.396	2.354	1.8	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.341	2.5	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.448	1.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.433	1.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.370	3.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.084	7.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.980	1.7	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.559	4.9	100	0.00
75 TMP Naphthalene	1.938	1.862	3.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.749	5.1	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	113852	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	103353	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	63199	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	38224	10.539	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	105.40%
30) 1,2-Dichloroethane-d4	4.45	102	7062	10.389	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	103.90%
35) Toluene-d8	6.11	98	108614	10.613	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	106.10%
57) 4-Bromofluorobenzene	8.51	95	38357	10.016	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	100.20%
Target Compounds						
2) Ethanol	2.33	45	717	No Calib		Qvalue
4) Dichlorodifluoromethane	1.12	85	135832	20.484	ppb	93
5) Chloromethane	1.26	50	84851	19.313	ppb	99
6] Vinyl chloride	1.35	62	92646	21.806	ppb	94
7) Bromomethane	1.59	94	95673	21.820	ppb	100
8] Chloroethane	1.65	64	47223	20.760	ppb	91
9) Trichlorofluoromethane	1.84	101	244960	21.190	ppb	96
10) 2-Propanol	2.33	45	717	No Calib	#	
11) Acetone	2.33	58	26440	92.475	ppb	86
12] 1,1-Dichloroethene	2.27	96	59989	21.253	ppb	100
13) Hexane	3.16	57	52139	19.966	ppb	88
14) Methylene chloride	2.69	84	53910	19.314	ppb	93
15) t-Butyl alcohol (TBA)	2.82	59	25865	101.884	ppb	89
16] Methyl t-butyl ether (...)	2.93	73	141919	20.925	ppb	98
17] trans-1,2-Dichloroethene	2.92	96	64305	20.585	ppb	96
18) Diisopropyl ether (DIPE)	3.35	45	130063	21.414	ppb	96
19] 1,1-Dichloroethane	3.28	63	82212	21.198	ppb	97
20) Ethyl t-butyl ether (E...)	3.66	87	66746	20.414	ppb	99
21) 2,2-Dichloropropane	3.77	77	63321	23.062	ppb	94
22] cis-1,2-Dichloroethene	3.77	96	69771	20.686	ppb	90
23) Chloroform	4.04	83	102323	20.357	ppb	99
24) 2-Butanone (MEK)	3.79	43	123004	96.785	ppb	97
25) t-Amyl methyl ether (T...)	4.61	73	128372	20.475	ppb	99
26] 1,2-Dichloroethane (EDC)	4.53	62	72207	20.840	ppb	94
27] 1,1,1-Trichloroethane	4.19	97	110651	20.772	ppb	94
28) 1,1-Dichloropropene	4.33	75	71505	19.621	ppb	99
29) Carbon tetrachloride	4.33	117	115122	20.342	ppb	97
31] Benzene	4.50	78	194752	21.637	ppb	96
32] Trichloroethene	5.05	95	74081	21.398	ppb	89
33) 1,2-Dichloropropane	5.24	63	40158	21.232	ppb	100
34) Bromodichloromethane	5.48	83	71470	19.841	ppb	99
36) Dibromomethane	5.35	93	39889	20.289	ppb	89

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

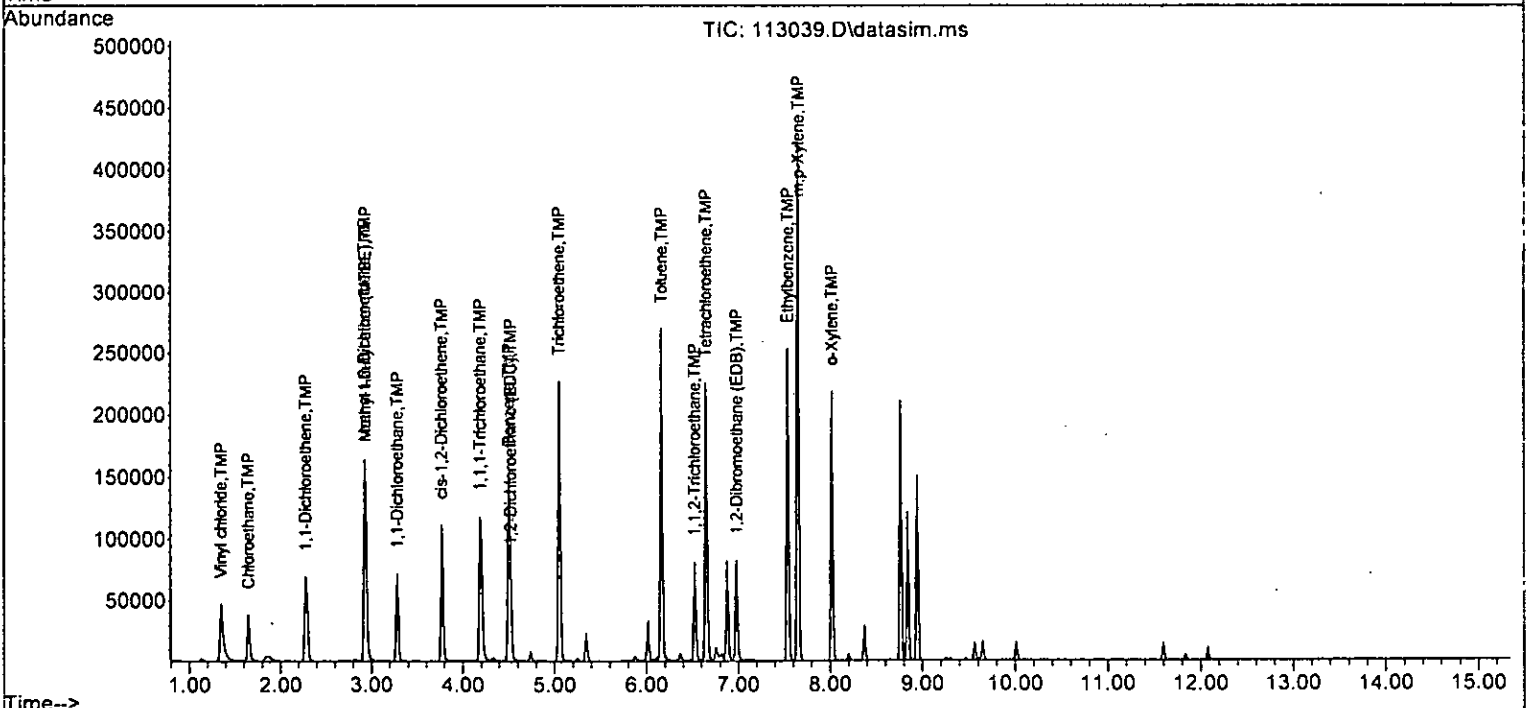
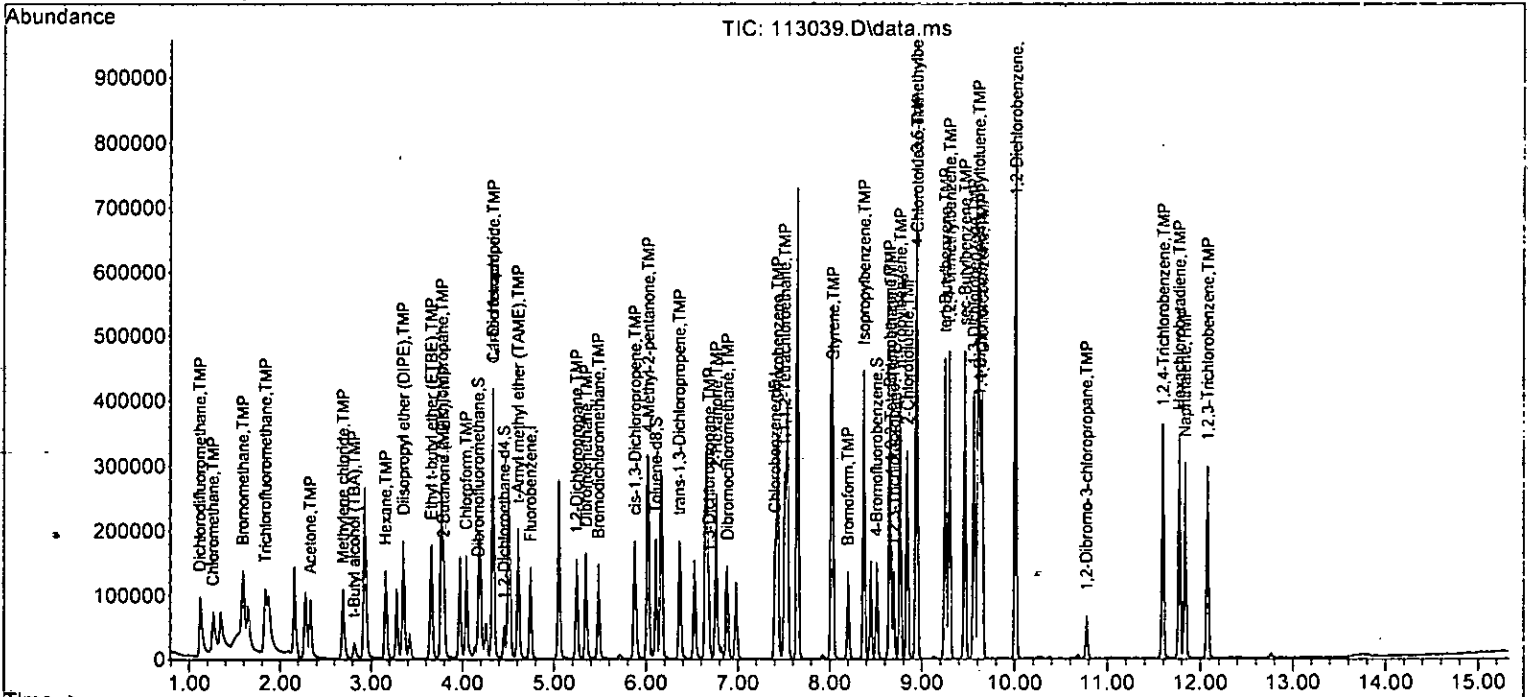
Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	45034	99.658	ppb	86
38) cis-1,3-Dichloropropene	5.88	75	75692	20.238	ppb	98
40] Toluene	6.16	92	139970	19.482	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	69498	18.901	ppb	98
42] 1,1,2-Trichloroethane	6.53	83	39372	19.482	ppb	97
43) 2-Hexanone	6.76	43	137944	94.306	ppb	100
44) 1,3-Dichloropropane	6.68	76	68370	19.573	ppb	96
45] Tetrachloroethene	6.65	164	84658	18.921	ppb	98
46) Dibromochloromethane	6.88	129	84730	19.281	ppb	97
47] 1,2-Dibromoethane (EDB)	6.98	107	65529	20.236	ppb	89
48) Chlorobenzene	7.43	112	185772	19.060	ppb	98
49] Ethylbenzene	7.54	91	254859	19.915	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.51	131	83289	19.527	ppb	98
51] m,p-Xylene	7.65	106	222036	39.474	ppb	99
52] o-Xylene	8.02	106	109667	19.452	ppb	98
53) Styrene	8.03	104	165596	18.883	ppb	99
54) Isopropylbenzene	8.37	105	267149	19.102	ppb	100
55) Bromoform	8.20	173	60396	19.324	ppb	99
58) n-Propylbenzene	8.77	91	270287	18.946	ppb	100
59) Bromobenzene	8.65	156	100820	19.425	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	223774	19.287	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.66	83	50688	18.746	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	40040	18.778	ppb	98
63) 2-Chlorotoluene	8.84	91	156735	19.338	ppb	94
64) 4-Chlorotoluene	8.95	91	186992	19.065	ppb	100
65) tert-Butylbenzene	9.25	119	231210	18.799	ppb	100
66) 1,2,4-Trimethylbenzene	9.30	105	232399	18.618	ppb	99
67) sec-Butylbenzene	9.46	105	291634	19.261	ppb	100
68) p-Isopropyltoluene	9.61	119	292452	19.284	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	178502	19.135	ppb	98
70) 1,4-Dichlorobenzene	9.65	146	177480	19.292	ppb	98
71) 1,2-Dichlorobenzene	10.01	146	169301	18.839	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	10739	18.762	ppb	91
73) 1,2,4-Trichlorobenzene	11.60	180	120132	19.061	ppb	97
74) Hexachlorobutadiene	11.77	225	68661	18.487	ppb	98
75) Naphthalene	11.83	128	231905	18.930	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	94469	18.940	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP	Ethanol	-1.000	0.000	0.0	100	0.00
3 S	Dibromofluoromethane	10.000	10.539	-5.4	100	0.00
4 TMP	Dichlorodifluoromethane	20.000	20.484	-2.4	100	0.00
5 TMP	Chloromethane	20.000	19.313	3.4	100	0.00
6 TMP	Vinyl chloride	20.000	21.806	-9.0	100	0.02
7 TMP	Bromomethane	20.000	21.820	-9.1	100	0.02
8 TMP	Chloroethane	20.000	20.760	-3.8	100	0.00
9 TMP	Trichlorofluoromethane	20.000	21.190	-6.0	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	100.000	92.475	7.5	100	0.01
12 TMP	1,1-Dichloroethene	20.000	21.253	-6.3	100	0.01
13 TMP	Hexane	20.000	19.966	0.2	100	0.00
14 TMP	Methylene chloride	20.000	19.314	3.4	100	0.01
15 TMP	t-Butyl alcohol (TBA)	100.000	101.884	-1.9	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	20.000	20.925	-4.6	100	0.01
17 TMP	trans-1,2-Dichloroethene	20.000	20.585	-2.9	100	0.01
18 TMP	Diisopropyl ether (DIPE)	20.000	21.414	-7.1	100	0.00
19 TMP	1,1-Dichloroethane	20.000	21.198	-6.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	20.000	20.414	-2.1	100	0.00
21 TMP	2,2-Dichloropropane	20.000	23.062	-15.3	100	0.01
22 TMP	cis-1,2-Dichloroethene	20.000	20.686	-3.4	100	0.00
23 TMP	Chloroform	20.000	20.357	-1.8	100	0.00
24 TMP	2-Butanone (MEK)	100.000	96.785	3.2	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	20.000	20.475	-2.4	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	20.000	20.840	-4.2	100	0.01
27 TMP	1,1,1-Trichloroethane	20.000	20.772	-3.9	100	0.00
28 TMP	1,1-Dichloropropene	20.000	19.621	1.9	100	0.00
29 TMP	Carbon tetrachloride	20.000	20.342	-1.7	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.389	-3.9	100	0.00
31 TMP	Benzene	20.000	21.637	-8.2	100	0.00
32 TMP	Trichloroethene	20.000	21.398	-7.0	100	0.00
33 TMP	1,2-Dichloropropane	20.000	21.232	-6.2	100	0.00
34 TMP	Bromodichloromethane	20.000	19.841	0.8	100	0.00
35 S	Toluene-d8	10.000	10.613	-6.1	100	0.00
36 TMP	Dibromomethane	20.000	20.289	-1.4	100	0.01
37 TMP	4-Methyl-2-pentanone	100.000	99.658	0.3	100	0.01
38 TMP	cis-1,3-Dichloropropene	20.000	20.238	-1.2	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	20.000	19.482	2.6	100	0.00
41 TMP	trans-1,3-Dichloropropene	20.000	18.901	5.5	100	0.00
42 TMP	1,1,2-Trichloroethane	20.000	19.482	2.6	100	0.00
43 TMP	2-Hexanone	100.000	94.306	5.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	20.000	19.573	2.1	100	0.01
45 TMP Tetrachloroethene	20.000	18.921	5.4	100	0.00
46 TMP Dibromochloromethane	20.000	19.281	3.6	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	20.000	20.236	-1.2	100	0.01
48 TMP Chlorobenzene	20.000	19.060	4.7	100	0.00
49 TMP Ethylbenzene	20.000	19.915	0.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	20.000	19.527	2.4	100	0.00
51 TMP m,p-Xylene	40.000	39.474	1.3	100	0.00
52 TMP o-Xylene	20.000	19.452	2.7	100	0.00
53 TMP Styrene	20.000	18.883	5.6	100	0.00
54 TMP Isopropylbenzene	20.000	19.102	4.5	100	0.00
55 TMP Bromoform	20.000	19.324	3.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.016	-0.2	100	0.00
58 TMP n-Propylbenzene	20.000	18.946	5.3	100	0.00
59 TMP Bromobenzene	20.000	19.425	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	20.000	19.287	3.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	20.000	18.746	6.3	100	0.00
62 TMP 1,2,3-Trichloropropane	20.000	18.778	6.1	100	0.00
63 TMP 2-Chlorotoluene	20.000	19.338	3.3	100	0.00
64 TMP 4-Chlorotoluene	20.000	19.065	4.7	100	0.00
65 TMP tert-Butylbenzene	20.000	18.799	6.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	20.000	18.618	6.9	100	0.00
67 TMP sec-Butylbenzene	20.000	19.261	3.7	100	0.00
68 TMP p-Isopropyltoluene	20.000	19.284	3.6	100	0.00
69 TMP 1,3-Dichlorobenzene	20.000	19.135	4.3	100	0.00
70 TMP 1,4-Dichlorobenzene	20.000	19.292	3.5	100	0.00
71 TMP 1,2-Dichlorobenzene	20.000	18.839	5.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	20.000	18.762	6.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	20.000	19.061	4.7	100	0.00
74 TMP Hexachlorobutadiene	20.000	18.487	7.6	100	0.00
75 TMP Naphthalene	20.000	18.930	5.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	20.000	18.940	5.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.336	-5.3	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.597	-2.6	100	0.00
5 TMP Chloromethane	0.386	0.373	3.4	100	0.00
6 TMP Vinyl chloride	0.373	0.407	-9.1	100	0.02
7 TMP Bromomethane	0.385	0.420	-9.1	100	0.02
8 TMP Chloroethane	0.200	0.207	-3.5	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.076	-6.0	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.023	-4.5	100	0.01
12 TMP 1,1-Dichloroethene	0.248	0.263	-6.0	100	0.01
13 TMP Hexane	0.236	0.229	3.0	100	0.00
14 TMP Methylene chloride	0.247	0.237	4.0	100	0.01
15 TMP t-Butyl alcohol (TBA)	0.022	0.023#	-4.5	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.623	-4.5	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.282	-2.9	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.571	-7.1	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.361	-5.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.293	-2.1	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.278	6.4	100	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.306	-3.4	100	0.00
23 TMP Chloroform	0.441	0.449	-1.8	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.108	-5.9	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.564	-2.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.317	5.1	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.486	-3.8	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.314	1.9	100	0.00
29 TMP Carbon tetrachloride	0.497	0.506	-1.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.849	0.855	-0.7	100	0.00
32 TMP Trichloroethene	0.304	0.325	-6.9	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.176	6.9	100	0.00
34 TMP Bromodichloromethane	0.316	0.314	0.6	100	0.00
35 S Toluene-d8	0.899	0.954	-6.1	100	0.00
36 TMP Dibromomethane	0.173	0.175	-1.2	100	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.040	0.0	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.332	-0.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.677	5.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.336	5.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.190	6.9	100	0.00
43 TMP 2-Hexanone	0.142	0.133	6.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.331	2.1	100	0.01
45 TMP Tetrachloroethene	0.443	0.410	7.4	100	0.00
46 TMP Dibromochloromethane	0.425	0.410	3.5	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.317	5.4	100	0.01
48 TMP Chlorobenzene	0.943	0.899	4.7	100	0.00
49 TMP Ethylbenzene	1.560	1.233	21.0#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.403	2.4	100	0.00
51 TMP m,p-Xylene	0.718	0.537	25.2#	100	0.00
52 TMP o-Xylene	0.611	0.531	13.1	100	0.00
53 TMP Styrene	0.848	0.801	5.5	100	0.00
54 TMP Isopropylbenzene	1.353	1.292	4.5	100	0.00
55 TMP Bromoform	0.302	0.292	3.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.607	-0.2	100	0.00
58 TMP n-Propylbenzene	2.257	2.138	5.3	100	0.00
59 TMP Bromobenzene	0.821	0.798	2.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.770	3.6	100	0.00
61 TMP 1,1,1,2-Tetrachloroethane	0.433	0.401#	7.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.317#	5.9	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.240	3.3	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.479	4.7	100	0.00
65 TMP tert-Butylbenzene	1.946	1.829	6.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.839	6.9	100	0.00
67 TMP sec-Butylbenzene	2.396	2.307	3.7	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.314	3.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.412	4.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.404	3.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.339	5.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.085	6.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.950	4.7	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.543	7.7	100	0.00
75 TMP Naphthalene	1.938	1.835	5.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.747	5.3	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 5 Dibromofluoromethane	10.000	10.853	-8.5	100	0.00
4 TMP Dichlorodifluoromethane	50.000	53.594	-7.2	100	0.00
5 TMP Chloromethane	50.000	51.900	-3.8	100	0.00
6 TMP Vinyl chloride	50.000	56.556	-13.1	100	0.00
7 TMP Bromomethane	50.000	51.172	-2.3	100	0.00
8 TMP Chloroethane	50.000	53.499	-7.0	100	0.00
9 TMP Trichlorofluoromethane	50.000	54.248	-8.5	100	0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	250.000	242.282	3.1	100	0.01
12 TMP 1,1-Dichloroethene	50.000	53.795	-7.6	100	0.01
13 TMP Hexane	50.000	52.294	-4.6	100	0.00
14 TMP Methylene chloride	50.000	51.290	-2.6	100	0.01
15 TMP t-Butyl alcohol (TBA)	250.000	255.771	-2.3	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	50.000	53.407	-6.8	100	0.01
17 TMP trans-1,2-Dichloroethene	50.000	52.903	-5.8	100	0.01
18 TMP Diisopropyl ether (DIPE)	50.000	50.127	-0.3	100	0.00
19 TMP 1,1-Dichloroethane	50.000	53.744	-7.5	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	50.000	53.003	-6.0	100	0.00
21 TMP 2,2-Dichloropropane	50.000	58.256	-16.5	100	0.00
22 TMP cis-1,2-Dichloroethene	50.000	52.806	-5.6	100	0.00
23 TMP Chloroform	50.000	52.551	-5.1	100	0.00
24 TMP 2-Butanone (MEK)	250.000	250.805	-0.3	100	0.01
25 TMP t-Amyl methyl ether (TAME)	50.000	53.032	-6.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	50.000	52.556	-5.1	100	0.01
27 TMP 1,1,1-Trichloroethane	50.000	53.465	-6.9	100	0.00
28 TMP 1,1-Dichloropropene	50.000	50.128	-0.3	100	0.00
29 TMP Carbon tetrachloride	50.000	53.826	-7.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.650	-6.5	100	0.00
31 TMP Benzene	50.000	55.612	-11.2	100	0.00
32 TMP Trichloroethene	50.000	54.605	-9.2	100	0.00
33 TMP 1,2-Dichloropropane	50.000	55.423	-10.8	100	0.00
34 TMP Bromodichloromethane	50.000	52.618	-5.2	100	0.00
35 S Toluene-d8	10.000	10.438	-4.4	100	0.00
36 TMP Dibromomethane	50.000	52.864	-5.7	100	0.01
37 TMP 4-Methyl-2-pentanone	250.000	263.434	-5.4	100	0.00
38 TMP cis-1,3-Dichloropropene	50.000	52.626	-5.3	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	50.000	51.773	-3.5	100	0.00
41 TMP trans-1,3-Dichloropropene	50.000	51.408	-2.8	100	0.00
42 TMP 1,1,2-Trichloroethane	50.000	51.263	-2.5	100	0.00
43 TMP 2-Hexanone	250.000	252.610	-1.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	50.000	49.709	0.6	100	0.01
45 TMP Tetrachloroethene	50.000	50.739	-1.5	100	0.00
46 TMP Dibromochloromethane	50.000	52.895	-5.8	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	50.000	53.434	-6.9	100	0.01
48 TMP Chlorobenzene	50.000	51.621	-3.2	100	0.00
49 TMP Ethylbenzene	50.000	52.075	-4.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	50.000	51.496	-3.0	100	0.00
51 TMP m,p-Xylene	100.000	102.855	-2.9	100	0.00
52 TMP o-Xylene	50.000	51.158	-2.3	100	0.00
53 TMP Styrene	50.000	50.717	-1.4	100	0.00
54 TMP Isopropylbenzene	50.000	50.818	-1.6	100	0.00
55 TMP Bromoform	50.000	52.888	-5.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.656	3.4	100	0.00
58 TMP n-Propylbenzene	50.000	48.483	3.0	100	0.00
59 TMP Bromobenzene	50.000	50.458	-0.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	50.000	49.676	0.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	50.000	48.132	3.7	100	0.00
62 TMP 1,2,3-Trichloropropane	50.000	48.857	2.3	100	0.00
63 TMP 2-Chlorotoluene	50.000	49.456	1.1	100	0.00
64 TMP 4-Chlorotoluene	50.000	49.350	1.3	100	0.00
65 TMP tert-Butylbenzene	50.000	49.735	0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	50.000	48.756	2.5	100	0.00
67 TMP sec-Butylbenzene	50.000	50.941	-1.9	100	0.00
68 TMP p-Isopropyltoluene	50.000	51.441	-2.9	100	0.00
69 TMP 1,3-Dichlorobenzene	50.000	49.741	0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	50.000	49.937	0.1	100	0.00
71 TMP 1,2-Dichlorobenzene	50.000	49.288	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	50.000	49.133	1.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	50.000	50.891	-1.8	100	0.00
74 TMP Hexachlorobutadiene	50.000	50.378	-0.8	100	0.00
75 TMP Naphthalene	50.000	50.905	-1.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	50.000	50.573	-1.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.346	-8.5	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.624	-7.2	100	0.00
5 TMP Chloromethane	0.386	0.401	-3.9	100	0.00
6 TMP Vinyl chloride	0.373	0.422	-13.1	100	0.00
7 TMP Bromomethane	0.385	0.394	-2.3	100	0.00
8 TMP Chloroethane	0.200	0.214	-7.0	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.102	-8.6	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.024	-9.1	100	0.01
12 TMP 1,1-Dichloroethene	0.248	0.267	-7.7	100	0.01
13 TMP Hexane	0.236	0.238	-0.8	100	0.00
14 TMP Methylene chloride	0.247	0.240	2.8	100	0.01
15 TMP t-Butyl alcohol (TBA)	0.022	0.023#	-4.5	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.636	-6.7	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.290	-5.8	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.535	-0.4	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.366	-7.3	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.304	-5.9	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.279	6.1	100	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.313	-5.7	100	0.00
23 TMP Chloroform	0.441	0.464	-5.2	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.108	-5.9	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.584	-6.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.320	4.2	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.500	-6.8	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.321	-0.3	100	0.00
29 TMP Carbon tetrachloride	0.497	0.535	-7.6	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.064	-6.7	100	0.00
31 TMP Benzene	0.849	0.879	-3.5	100	0.00
32 TMP Trichloroethene	0.304	0.332	-9.2	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.183	3.2	100	0.00
34 TMP Bromodichloromethane	0.316	0.333	-5.4	100	0.00
35 S Toluene-d8	0.899	0.938	-4.3	100	0.00
36 TMP Dibromomethane	0.173	0.183	-5.8	100	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.042	-5.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.346	-5.2	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.720	-0.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.366	-2.8	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.200	2.0	100	0.00
43 TMP 2-Hexanone	0.142	0.143	-0.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.336	0.6	100	0.01
45 TMP Tetrachloroethene	0.443	0.433	2.3	100	0.00
46 TMP Dibromochloromethane	0.425	0.450	-5.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.335	0.0	100	0.01
48 TMP Chlorobenzene	0.943	0.974	-3.3	100	0.00
49 TMP Ethylbenzene	1.560	1.288	17.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.425	-2.9	100	0.00
51 TMP m,p-Xylene	0.718	0.559	22.1#	100	0.00
52 TMP o-Xylene	0.611	0.558	8.7	100	0.00
53 TMP Styrene	0.848	0.861	-1.5	100	0.00
54 TMP Isopropylbenzene	1.353	1.375	-1.6	100	0.00
55 TMP Bromoform	0.302	0.320	-6.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.585	3.5	100	0.00
58 TMP n-Propylbenzene	2.257	2.189	3.0	100	0.00
59 TMP Bromobenzene	0.821	0.829	-1.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.824	0.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.412#	4.8	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.330#	2.1	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.269	1.0	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.532	1.3	100	0.00
65 TMP tert-Butylbenzene	1.946	1.936	0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.926	2.5	100	0.00
67 TMP sec-Butylbenzene	2.396	2.441	-1.9	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.469	-2.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.468	0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.454	0.1	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.402	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.089	2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.015	-1.8	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.592	-0.7	100	0.00
75 TMP Naphthalene	1.938	1.973	-1.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.798	-1.1	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	111462	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	99189	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	62528	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	38537	10.853	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	108.50%
30) 1,2-Dichloroethane-d4	4.45	102	7088	10.650	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	106.50%
35) Toluene-d8	6.11	98	104583	10.438	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	104.40%
57) 4-Bromofluorobenzene	8.51	95	36588	9.656	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	96.60%
Target Compounds						
						Qvalue
2) Ethanol	2.33	45	1355	No Calib		
4) Dichlorodifluoromethane	1.12	85	347925	53.594	ppb	96
5) Chloromethane	1.26	50	223237	51.900	ppb	97
6] Vinyl chloride	1.34	62	235243	56.556	ppb	100
7) Bromomethane	1.58	94	219658	51.172	ppb	99
8] Chloroethane	1.65	64	119140	53.499	ppb	96
9) Trichlorofluoromethane	1.84	101	613963	54.248	ppb	97
10) 2-Propanol	2.33	45	1355	No Calib	#	
11) Acetone	2.33	58	65765	242.282	ppb	100
12] 1,1-Dichloroethene	2.27	96	148652	53.795	ppb	93
13) Hexane	3.16	57	132892	52.294	ppb	91
14) Methylene chloride	2.69	84	133993	51.290	ppb	98
15) t-Butyl alcohol (TBA)	2.82	59	63569	255.771	ppb	99
16] Methyl t-butyl ether (...	2.93	73	354627	53.407	ppb	96
17] trans-1,2-Dichloroethene	2.92	96	161792	52.903	ppb	91
18) Diisopropyl ether (DIPE)	3.35	45	298064	50.127	ppb	97
19] 1,1-Dichloroethane	3.27	63	204059	53.744	ppb	95
20) Ethyl t-butyl ether (E...	3.66	87	169657	53.003	ppb	96
21) 2,2-Dichloropropane	3.76	77	155346	58.256	ppb	95
22] cis-1,2-Dichloroethene	3.77	96	174367	52.806	ppb	94
23) Chloroform	4.04	83	258596	52.551	ppb	97
24) 2-Butanone (MEK)	3.79	43	301720	250.805	ppb	95
25) t-Amyl methyl ether (T...	4.61	73	325507	53.032	ppb	99
26] 1,2-Dichloroethane (EDC)	4.53	62	178179	52.556	ppb	92
27] 1,1,1-Trichloroethane	4.19	97	278831	53.465	ppb	97
28) 1,1-Dichloropropene	4.33	75	178844	50.128	ppb	98
29) Carbon tetrachloride	4.33	117	298224	53.826	ppb	100
31] Benzene	4.50	78	489860	55.612	ppb	97
32] Trichloroethene	5.05	95	185073	54.605	ppb	92
33) 1,2-Dichloropropane	5.24	63	102087	55.423	ppb	99
34) Bromodichloromethane	5.48	83	185560	52.618	ppb	96
36) Dibromomethane	5.35	93	101753	52.864	ppb	84

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

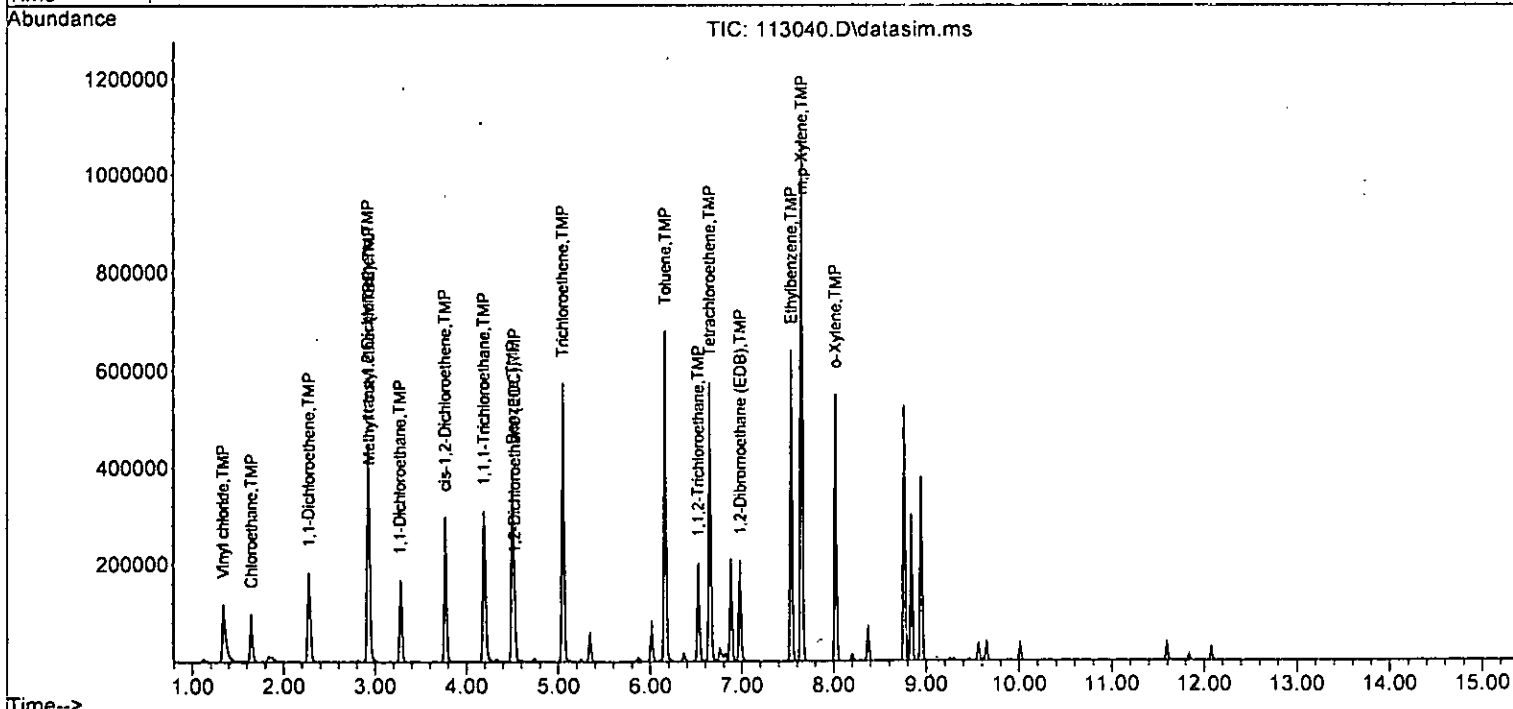
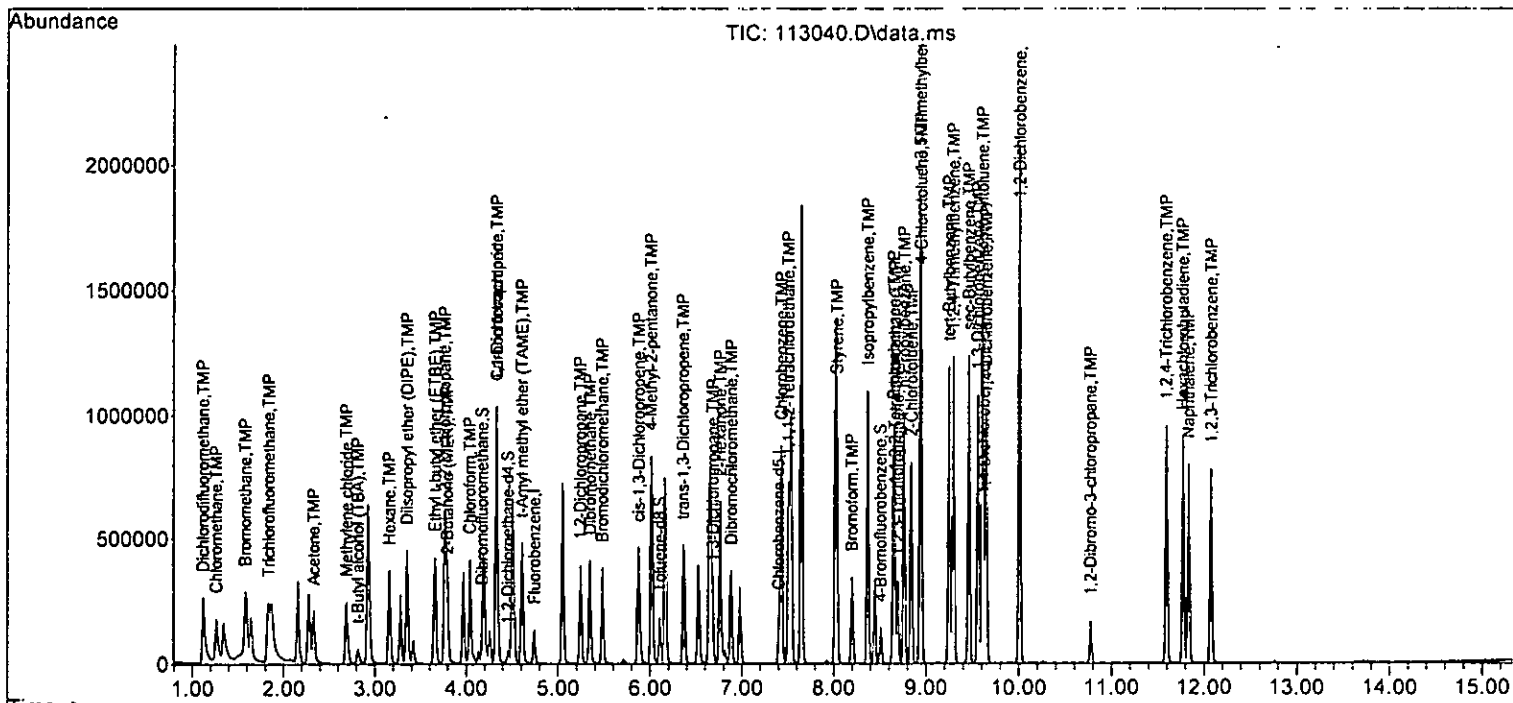
Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	116543	263.434	ppb	91
38) cis-1,3-Dichloropropene	5.88	75	192695	52.626	ppb	99
40] Toluene	6.16	92	356903	51.773	ppb	100
41) trans-1,3-Dichloropropene	6.36	75	181406	51.408	ppb	98
42] 1,1,2-Trichloroethane	6.53	83	99400	51.263	ppb	99
43) 2-Hexanone	6.76	43	354611	252.610	ppb	99
44) 1,3-Dichloropropane	6.68	76	166639	49.709	ppb	96
45] Tetrachloroethene	6.65	164	214713	50.739	ppb	99
46) Dibromochloromethane	6.88	129	223080	52.895	ppb	99
47] 1,2-Dibromoethane (EDB)	6.98	107	165995	53.434	ppb	89
48) Chlorobenzene	7.43	112	482866	51.621	ppb	99
49] Ethylbenzene	7.54	91	638595	52.075	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	210792	51.496	ppb	97
51] m,p-Xylene	7.65	106	554184	102.855	ppb	100
52] o-Xylene	8.02	106	276592	51.158	ppb	98
53) Styrene	8.03	104	426843	50.717	ppb	100
54) Isopropylbenzene	8.37	105	682063	50.818	ppb	99
55) Bromoform	8.20	173	158638	52.888	ppb	98
58) n-Propylbenzene	8.77	91	684347	48.483	ppb	100
59) Bromobenzene	8.65	156	259103	50.458	ppb	90
60) 1,3,5-Trimethylbenzene	8.94	105	570235	49.676	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.66	83	128702	48.132	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	103070	48.857	ppb	99
63) 2-Chlorotoluene	8.84	91	396592	49.456	ppb	94
64) 4-Chlorotoluene	8.95	91	478899	49.350	ppb	99
65) tert-Butylbenzene	9.25	119	605193	49.735	ppb	99
66) 1,2,4-Trimethylbenzene	9.30	105	602144	48.756	ppb	97
67) sec-Butylbenzene	9.46	105	763099	50.941	ppb	99
68) p-Isopropyltoluene	9.61	119	771864	51.441	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	459090	49.741	ppb	99
70) 1,4-Dichlorobenzene	9.65	146	454527	49.937	ppb	99
71) 1,2-Dichlorobenzene	10.01	146	438229	49.288	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	27824	49.133	ppb	98
73) 1,2,4-Trichlorobenzene	11.59	180	317329	50.891	ppb	99
74) Hexachlorobutadiene	11.77	225	185113	50.378	ppb	99
75) Naphthalene	11.83	128	616990	50.905	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	249571	50.573	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	9.784	2.2	100	0.00
4 TMP Dichlorodifluoromethane	100.000	99.939	0.1	100	0.00
5 TMP Chloromethane	100.000	98.520	1.5	100	0.00
6 TMP Vinyl chloride	100.000	104.786	-4.8	100	0.00
7 TMP Bromomethane	100.000	95.062	4.9	100	0.00
8 TMP Chloroethane	100.000	99.438	0.6	100	0.00
9 TMP Trichlorofluoromethane	100.000	101.092	-1.1	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	500.000	535.162	-7.0	100	0.00
12 TMP 1,1-Dichloroethene	100.000	97.329	2.7	100	0.01
13 TMP Hexane	100.000	100.500	-0.5	100	0.00
14 TMP Methylene chloride	100.000	98.691	1.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	500.000	470.455	5.9	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	100.000	96.635	3.4	100	0.01
17 TMP trans-1,2-Dichloroethene	100.000	94.982	5.0	100	0.01
18 TMP Diisopropyl ether (DIPE)	100.000	101.291	-1.3	100	0.00
19 TMP 1,1-Dichloroethane	100.000	96.701	3.3	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	100.000	98.719	1.3	100	0.00
21 TMP 2,2-Dichloropropane	100.000	103.358	-3.4	100	0.00
22 TMP cis-1,2-Dichloroethene	100.000	95.308	4.7	100	0.00
23 TMP Chloroform	100.000	95.695	4.3	100	0.00
24 TMP 2-Butanone (MEK)	500.000	506.395	-1.3	100	0.00
25 TMP t-Amyl methyl ether (TAME)	100.000	96.007	4.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	100.000	95.133	4.9	100	0.00
27 TMP 1,1,1-Trichloroethane	100.000	97.457	2.5	100	0.00
28 TMP 1,1-Dichloropropene	100.000	91.502	8.5	100	0.00
29 TMP Carbon tetrachloride	100.000	100.004	-0.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.231	7.7	100	0.00
31 TMP Benzene	100.000	101.563	-1.6	100	0.00
32 TMP Trichloroethene	100.000	97.486	2.5	100	0.00
33 TMP 1,2-Dichloropropane	100.000	101.546	-1.5	100	0.00
34 TMP Bromodichloromethane	100.000	98.274	1.7	100	0.00
35 S Toluene-d8	10.000	10.252	-2.5	100	0.00
36 TMP Dibromomethane	100.000	98.699	1.3	100	0.00
37 TMP 4-Methyl-2-pentanone	500.000	518.133	-3.6	100	0.00
38 TMP cis-1,3-Dichloropropene	100.000	100.287	-0.3	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	100.000	99.872	0.1	100	0.00
41 TMP trans-1,3-Dichloropropene	100.000	99.704	0.3	100	0.00
42 TMP 1,1,2-Trichloroethane	100.000	99.363	0.6	100	0.00
43 TMP 2-Hexanone	500.000	515.828	-3.2	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\V8113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	100.000	96.567	3.4	100	0.01
45 TMP Tetrachloroethene	100.000	99.827	0.2	100	0.00
46 TMP Dibromochloromethane	100.000	105.205	-5.2	100	0.01
47 TMP 1,2-Dibromoethane (ED8)	100.000	103.845	-3.8	100	0.01
48 TMP Chlorobenzene	100.000	99.491	0.5	100	0.00
49 TMP Ethylbenzene	100.000	98.717	1.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	100.000	102.344	-2.3	100	0.00
51 TMP m,p-Xylene	200.000	197.219	1.4	100	0.00
52 TMP o-Xylene	100.000	99.033	1.0	100	0.00
53 TMP Styrene	100.000	98.366	1.6	100	0.00
54 TMP Isopropylbenzene	100.000	98.946	1.1	100	0.00
55 TMP Bromoform	100.000	108.437	-8.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.809	1.9	100	0.00
58 TMP n-Propylbenzene	100.000	96.793	3.2	100	0.00
59 TMP Bromobenzene	100.000	101.587	-1.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	100.000	99.582	0.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	100.000	99.874	0.1	100	0.00
62 TMP 1,2,3-Trichloropropane	100.000	98.729	1.3	100	0.00
63 TMP 2-Chlorotoluene	100.000	97.977	2.0	100	0.00
64 TMP 4-Chlorotoluene	100.000	96.967	3.0	100	0.00
65 TMP tert-Butylbenzene	100.000	99.671	0.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	100.000	98.876	1.1	100	0.00
67 TMP sec-Butylbenzene	100.000	102.787	-2.8	100	0.00
68 TMP p-Isopropyltoluene	100.000	103.835	-3.8	100	0.00
69 TMP 1,3-Dichlorobenzene	100.000	100.113	-0.1	100	0.00
70 TMP 1,4-Dichlorobenzene	100.000	100.406	-0.4	100	0.00
71 TMP 1,2-Dichlorobenzene	100.000	100.276	-0.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	100.000	101.530	-1.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	100.000	104.782	-4.8	100	0.00
74 TMP Hexachlorobutadiene	100.000	100.664	-0.7	100	0.00
75 TMP Naphthalene	100.000	105.416	-5.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	100.000	105.081	-5.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-45  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.312	2.2	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.582	0.0	100	0.00
5 TMP Chloromethane	0.386	0.380	1.6	100	0.00
6 TMP Vinyl chloride	0.373	0.391	-4.8	100	0.00
7 TMP Bromomethane	0.385	0.366	4.9	100	0.00
8 TMP Chloroethane	0.200	0.199	0.5	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.026	-1.1	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.024	-9.1	100	0.00
12 TMP 1,1-Dichloroethene	0.248	0.241	2.8	100	0.01
13 TMP Hexane	0.236	0.229	3.0	100	0.00
14 TMP Methylene chloride	0.247	0.222	10.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.021#	4.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.576	3.4	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.261	4.7	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.540	-1.3	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.329	3.5	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.283	1.4	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.247	16.8	100	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.282	4.7	100	0.00
23 TMP Chloroform	0.441	0.422	4.3	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.102	0.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.551	0.529	4.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.289	13.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.456	2.6	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.293	8.4	100	0.00
29 TMP Carbon tetrachloride	0.497	0.497	0.0	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	100	0.00
31 TMP Benzene	0.849	0.803	5.4	100	0.00
32 TMP Trichloroethene	0.304	0.296	2.6	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.168	11.1	100	0.00
34 TMP Bromodichloromethane	0.316	0.311	1.6	100	0.00
35 S Toluene-d8	0.899	0.922	-2.6	100	0.00
36 TMP Dibromomethane	0.173	0.170	1.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.041	-2.5	100	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.329	0.0	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.694	3.5	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.355	0.3	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.194	4.9	100	0.00
43 TMP 2-Hexanone	0.142	0.146	-2.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.326	3.6	100	0.01
45 TMP Tetrachloroethene	0.443	0.416	6.1	100	0.00
46 TMP Dibromochloromethane	0.425	0.447	-5.2	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.325	3.0	100	0.01
48 TMP Chlorobenzene	0.943	0.938	0.5	100	0.00
49 TMP Ethylbenzene	1.560	1.220	21.8#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.422	-2.2	100	0.00
51 TMP m,p-Xylene	0.718	0.535	25.5#	100	0.00
52 TMP o-Xylene	0.611	0.540	11.6	100	0.00
53 TMP Styrene	0.848	0.835	1.5	100	0.00
54 TMP Isopropylbenzene	1.353	1.339	1.0	100	0.00
55 TMP Bromoform	0.302	0.328	-8.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.594	2.0	100	0.00
58 TMP n-Propylbenzene	2.257	2.185	3.2	100	0.00
59 TMP Bromobenzene	0.821	0.834	-1.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.828	0.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.427#	1.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.333#	1.2	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.257	2.0	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.505	3.0	100	0.00
65 TMP tert-Butylbenzene	1.946	1.940	0.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.953	1.1	100	0.00
67 TMP sec-Butylbenzene	2.396	2.463	-2.8	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.492	-3.8	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.478	-0.1	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.462	-0.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.426	-0.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.092	-1.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.045	-4.8	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.592	-0.7	100	0.00
75 TMP Naphthalene	1.938	2.043	-5.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.829	-5.1	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	119165	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	103163	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	63316	10.000	ppb	# 0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	37143	9.784	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.80%	
30) 1,2-Dichloroethane-d4	4.45	102	6568	9.231	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	92.30%	
35) Toluene-d8	6.10	98	109813	10.252	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	102.50%	
57) 4-Bromofluorobenzene	8.51	95	37636	9.809	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.10%	
<b>Target Compounds</b>							
2) Ethanol	2.33	45	2247	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	693626	99.939	ppb		94
5) Chloromethane	1.25	50	453045	98.520	ppb		97
6] Vinyl chloride	1.34	62	465978	104.786	ppb		94
7) Bromomethane	1.58	94	436259	95.062	ppb		98
8] Chloroethane	1.64	64	236746	99.438	ppb		93
9) Trichlorofluoromethane	1.83	101	1223188	101.092	ppb		99
10) 2-Propanol	2.33	45	2247	No Calib			
11) Acetone	2.32	58	142294	535.162	ppb		100
12] 1,1-Dichloroethene	2.27	96	287539	97.329	ppb		85
13) Hexane	3.16	57	272559	100.500	ppb		94
14) Methylene chloride	2.68	84	264352	98.691	ppb		97
15) t-Butyl alcohol (T8A)	2.81	59	125007	470.455	ppb		96
16] Methyl t-butyl ether (...)	2.93	73	686003	96.635	ppb		94
17] trans-1,2-Dichloroethene	2.92	96	310556	94.982	ppb		85
18) Diisopropyl ether (DIPE)	3.35	45	643922	101.291	ppb		96
19] 1,1-Dichloroethane	3.27	63	392532	96.701	ppb		98
20) Ethyl t-butyl ether (E...)	3.65	87	337828	98.719	ppb		98
21) 2,2-Dichloropropane	3.76	77	293984	103.358	ppb		95
22] cis-1,2-Dichloroethene	3.77	96	336461	95.308	ppb		99
23) Chloroform	4.04	83	503443	95.695	ppb		98
24) 2-Butanone (MEK)	3.78	43	610655	506.395	ppb		99
25) t-Amyl methyl ether (T...)	4.61	73	630012	96.007	ppb		97
26] 1,2-Dichloroethane (EDC)	4.52	62	344758	95.133	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	543379	97.457	ppb		99
28) 1,1-Dichloropropene	4.33	75	349019	91.502	ppb		97
29) Carbon tetrachloride	4.33	117	592363	100.004	ppb		99
31] Benzene	4.50	78	956350	101.563	ppb		99
32] Trichloroethene	5.05	95	353243	97.486	ppb		98
33) 1,2-Dichloropropane	5.24	63	199672	101.546	ppb		98
34) Bromodichloromethane	5.48	83	370524	98.274	ppb		98
36) Dibromomethane	5.34	93	203104	98.699	ppb		97

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-45  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

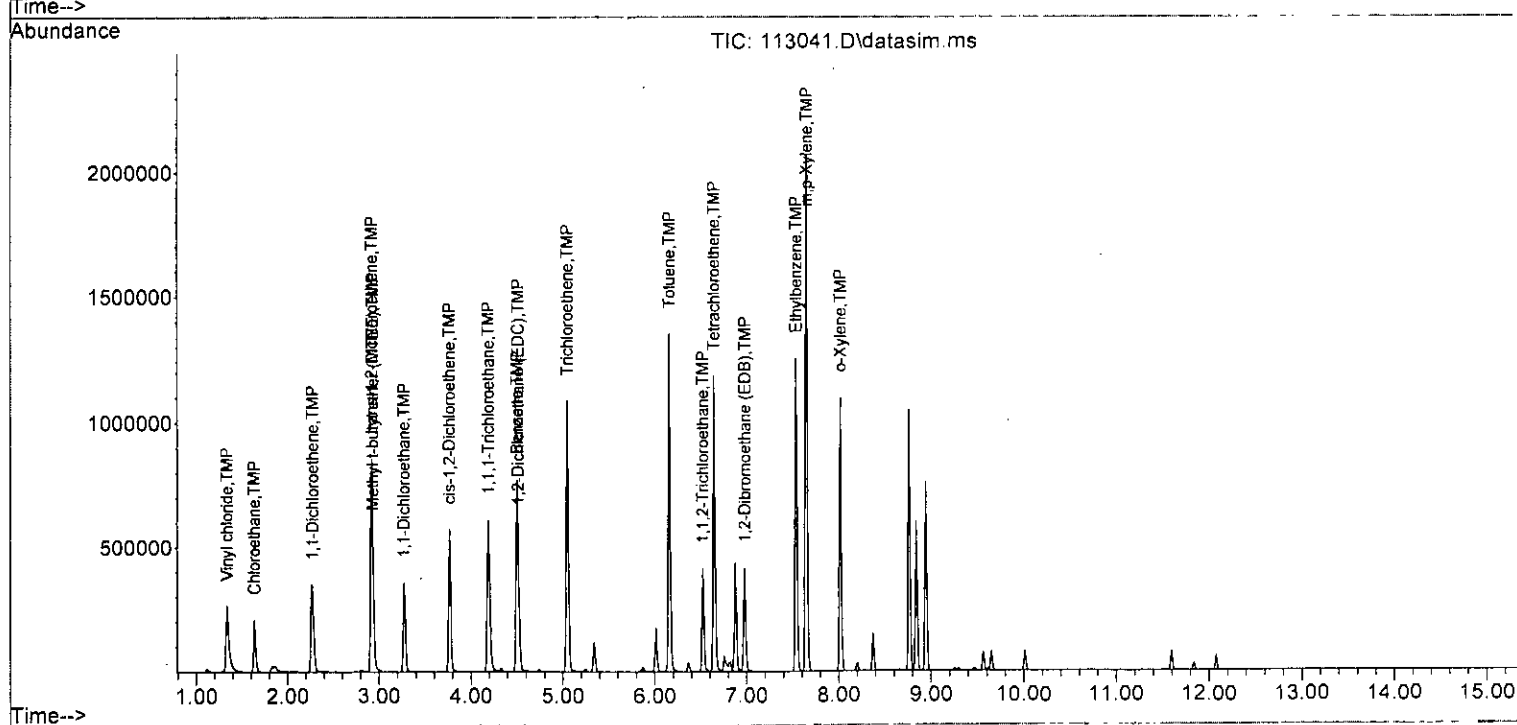
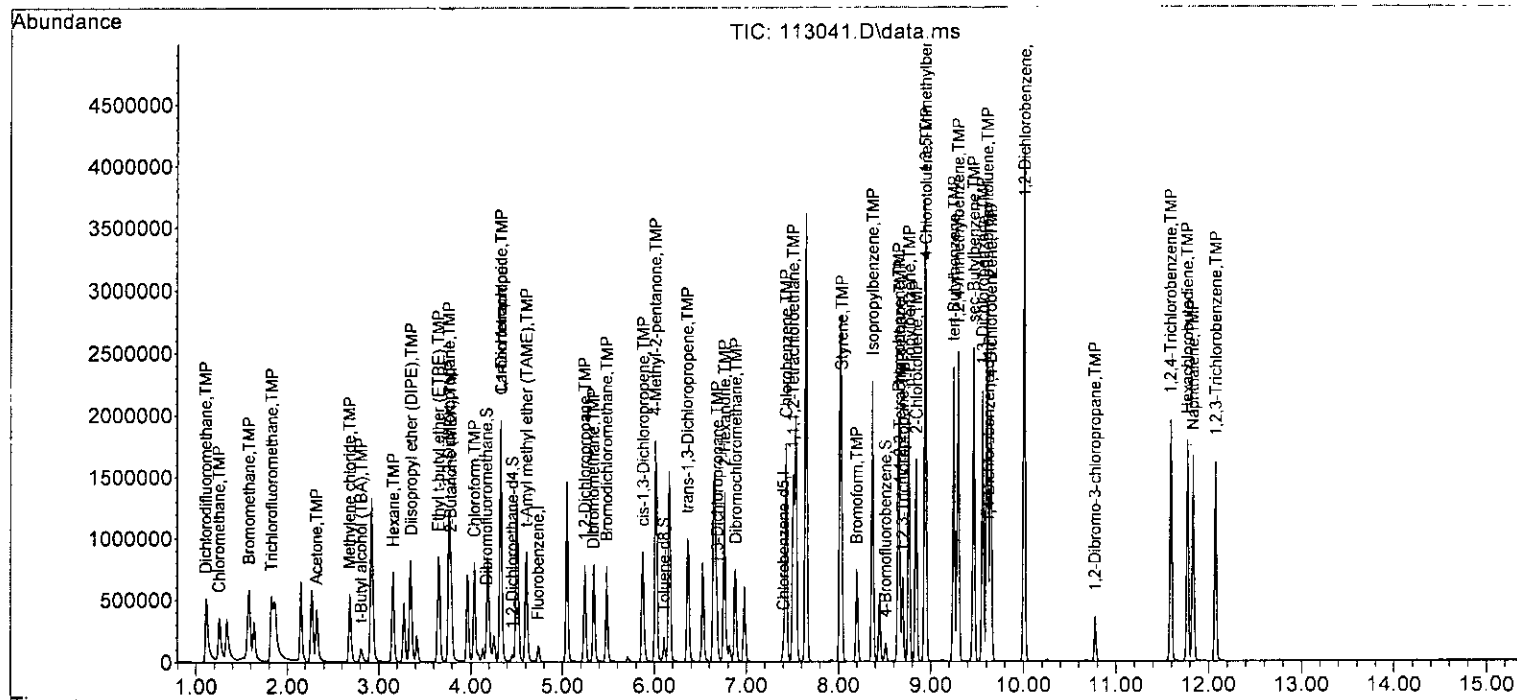
Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	245063	518.133	ppb	92
38) cis-1,3-Dichloropropene	5.88	75	392585	100.287	ppb	96
40] Toluene	6.16	92	716026	99.872	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	365924	99.704	ppb	97
42] 1,1,2-Trichloroethane	6.53	83	200373	99.363	ppb	99
43) 2-Hexanone	6.76	43	753126	515.828	ppb	99
44) 1,3-Dichloropropane	6.68	76	336688	96.567	ppb	96
45] Tetrachloroethene	6.65	164	429493	99.827	ppb	100
46) Dibromochloromethane	6.88	129	461472	105.205	ppb	100
47] 1,2-Dibromoethane (EDB)	6.98	107	335484	103.845	ppb	88
48) Chlorobenzene	7.43	112	967927	99.491	ppb	100
49] Ethylbenzene	7.54	91	1258512	98.717	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.51	131	435717	102.344	ppb	98
51] m,p-Xylene	7.65	106	1104572	197.219	ppb	98
52] o-Xylene	8.02	106	556772	99.033	ppb	99
53) Styrene	8.03	104	861024	98.366	ppb	98
54) Isopropylbenzene	8.37	105	1381231	98.946	ppb	98
55) Bromoform	8.20	173	338291	108.437	ppb	98
58) n-Propylbenzene	8.77	91	1383463	96.793	ppb	99
59) Bromobenzene	8.65	156	528224	101.587	ppb	91
60) 1,3,5-Trimethylbenzene	8.94	105	1157512	99.582	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.66	83	270382	99.874	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	210905	98.729	ppb	98
63) 2-Chlorotoluene	8.84	91	795581	97.977	ppb	95
64) 4-Chlorotoluene	8.95	91	952842	96.967	ppb	99
65) tert-Butylbenzene	9.25	119	1228113	99.671	ppb	98
66) 1,2,4-Trimethylbenzene	9.30	105	1236506	98.876	ppb	98
67) sec-Butylbenzene	9.46	105	1559170	102.787	ppb	100
68) p-Isopropyltoluene	9.61	119	1577642	103.835	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	935655	100.113	ppb	99
70) 1,4-Dichlorobenzene	9.65	146	925416	100.406	ppb	99
71) 1,2-Dichlorobenzene	10.01	146	902819	100.276	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	58221	101.530	ppb	94
73) 1,2,4-Trichlorobenzene	11.59	180	661592	104.782	ppb	99
74) Hexachlorobutadiene	11.77	225	374549	100.664	ppb	99
75) Naphthalene	11.83	128	1293786	105.416	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	525093	105.081	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	-0.01
3 S Dibromofluoromethane	10.000	9.621	3.8	100	0.00
4 TMP Dichlorodifluoromethane	150.000	153.942	-2.6	100	0.00
5 TMP Chloromethane	150.000	147.515	1.7	100	0.00
6 TMP Vinyl chloride	150.000	157.271	-4.8	100	0.00
7 TMP Bromomethane	150.000	138.922	7.4	100	0.00
8 TMP Chloroethane	150.000	147.194	1.9	100	0.00
9 TMP Trichlorofluoromethane	150.000	152.886	-1.9	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-0.01
11 TMP Acetone	750.000	784.265	-4.6	100	0.00
12 TMP 1,1-Dichloroethene	150.000	147.070	2.0	100	0.00
13 TMP Hexane	150.000	148.724	0.9	100	0.00
14 TMP Methylene chloride	150.000	151.780	-1.2	100	0.00
15 TMP t-Butyl alcohol (TBA)	750.000	709.522	5.4	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	150.000	142.593	4.9	100	0.00
17 TMP trans-1,2-Dichloroethene	150.000	143.665	4.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	150.000	146.620	2.3	100	0.00
19 TMP 1,1-Dichloroethane	150.000	144.070	4.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	150.000	146.981	2.0	100	0.00
21 TMP 2,2-Dichloropropane	150.000	155.771	-3.8	100	0.00
22 TMP cis-1,2-Dichloroethene	150.000	143.466	4.4	100	0.00
23 TMP Chloroform	150.000	143.617	4.3	100	0.00
24 TMP 2-Butanone (MEK)	750.000	781.318	-4.2	100	0.00
25 TMP t-Amyl methyl ether (TAME)	150.000	144.279	3.8	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	150.000	138.995	7.3	100	0.00
27 TMP 1,1,1-Trichloroethane	150.000	146.055	2.6	100	0.00
28 TMP 1,1-Dichloropropene	150.000	137.634	8.2	100	0.00
29 TMP Carbon tetrachloride	150.000	151.128	-0.8	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.289	7.1	100	0.00
31 TMP Benzene	150.000	152.013	-1.3	100	0.00
32 TMP Trichloroethene	150.000	150.083	-0.1	100	0.00
33 TMP 1,2-Dichloropropane	150.000	151.341	-0.9	100	0.00
34 TMP Bromodichloromethane	150.000	147.218	1.9	100	0.00
35 S Toluene-d8	10.000	9.919	0.8	100	0.00
36 TMP Dibromomethane	150.000	145.874	2.8	100	0.00
37 TMP 4-Methyl-2-pentanone	750.000	749.754	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	150.000	149.586	0.3	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	150.000	151.207	-0.8	100	0.00
41 TMP trans-1,3-Dichloropropene	150.000	153.753	-2.5	100	0.00
42 TMP 1,1,2-Trichloroethane	150.000	150.178	-0.1	100	0.00
43 TMP 2-Hexanone	750.000	740.412	1.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	150.000	144.539	3.6	100	0.00
45 TMP Tetrachloroethene	150.000	154.165	-2.8	100	0.00
46 TMP Dibromochloromethane	150.000	162.637	-8.4	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	150.000	153.380	-2.3	100	0.01
48 TMP Chlorobenzene	150.000	153.503	-2.3	100	0.00
49 TMP Ethylbenzene	150.000	147.582	1.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	150.000	157.993	-5.3	100	0.00
51 TMP m,p-Xylene	300.000	297.635	0.8	100	0.00
52 TMP o-Xylene	150.000	150.869	-0.6	100	0.00
53 TMP Styrene	150.000	151.312	-0.9	100	0.00
54 TMP Isopropylbenzene	150.000	152.860	-1.9	100	0.00
55 TMP Bromoform	150.000	169.357	-12.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.822	1.8	100	0.00
58 TMP n-Propylbenzene	150.000	142.000	5.3	100	0.00
59 TMP Bromobenzene	150.000	151.209	-0.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	150.000	147.273	1.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	150.000	142.346	5.1	100	0.00
62 TMP 1,2,3-Trichloropropane	150.000	146.291	2.5	100	0.00
63 TMP 2-Chlorotoluene	150.000	145.432	3.0	100	0.00
64 TMP 4-Chlorotoluene	150.000	142.553	5.0	100	0.00
65 TMP tert-Butylbenzene	150.000	149.449	0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	150.000	148.256	1.2	100	0.00
67 TMP sec-Butylbenzene	150.000	154.864	-3.2	100	0.00
68 TMP p-Isopropyltoluene	150.000	155.869	-3.9	100	0.00
69 TMP 1,3-Dichlorobenzene	150.000	150.725	-0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	150.000	150.690	-0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	150.000	150.648	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	150.000	153.271	-2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	150.000	159.201	-6.1	100	0.00
74 TMP Hexachlorobutadiene	150.000	153.794	-2.5	100	0.00
75 TMP Naphthalene	150.000	158.946	-6.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	150.000	160.751	-7.2	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	-0.01
3 S Dibromofluoromethane	0.319	0.307	3.8	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.598	-2.7	100	0.00
5 TMP Chloromethane	0.386	0.380	1.6	100	0.00
6 TMP Vinyl chloride	0.373	0.391	-4.8	100	0.00
7 TMP Bromomethane	0.385	0.357	7.3	100	0.00
8 TMP Chloroethane	0.200	0.196	2.0	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.035	-2.0	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-0.01
11 TMP Acetone	0.022	0.021	4.5	100	0.00
12 TMP 1,1-Dichloroethene	0.248	0.243	2.0	100	0.00
13 TMP Hexane	0.236	0.226	4.2	100	0.00
14 TMP Methylene chloride	0.247	0.218	11.7	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.021#	4.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.566	5.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.274	0.263	4.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.533	0.521	2.3	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.327	4.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.281	2.1	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.248	16.5	100	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.283	4.4	100	0.00
23 TMP Chloroform	0.441	0.423	4.1	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.098	3.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.551	0.530	3.8	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.282	15.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.456	2.6	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.294	8.1	100	0.00
29 TMP Carbon tetrachloride	0.497	0.501	-0.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	100	0.00
31 TMP Benzene	0.849	0.801	5.7	100	0.00
32 TMP Trichloroethene	0.304	0.304	0.0	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.166	12.2	100	0.00
34 TMP Bromodichloromethane	0.316	0.311	1.6	100	0.00
35 S Toluene-d8	0.899	0.892	0.8	100	0.00
36 TMP Dibromomethane	0.173	0.168	2.9	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.040	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.328	0.3	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.701	2.5	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.365	-2.5	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.196	3.9	100	0.00
43 TMP 2-Hexanone	0.142	0.140	1.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.326	3.6	100	0.00
45 TMP Tetrachloroethene	0.443	0.418	5.6	100	0.00
46 TMP Dibromochloromethane	0.425	0.461	-8.5	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.320	4.5	100	0.01
48 TMP Chlorobenzene	0.943	0.965	-2.3	100	0.00
49 TMP Ethylbenzene	1.560	1.216	22.1#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.435	-5.3	100	0.00
51 TMP m,p-Xylene	0.718	0.539	24.9#	100	0.00
52 TMP o-Xylene	0.611	0.548	10.3	100	0.00
53 TMP Styrene	0.848	0.856	-0.9	100	0.00
54 TMP Isopropylbenzene	1.353	1.379	-1.9	100	0.00
55 TMP Bromoform	0.302	0.341	-12.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.595	1.8	100	0.00
58 TMP n-Propylbenzene	2.257	2.137	5.3	100	0.00
59 TMP Bromobenzene	0.821	0.828	-0.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.802	1.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.406#	6.2	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.329#	2.4	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.243	3.0	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.475	5.0	100	0.00
65 TMP tert-Butylbenzene	1.946	1.939	0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.952	1.2	100	0.00
67 TMP sec-Butylbenzene	2.396	2.473	-3.2	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.494	-3.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.483	-0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.462	-0.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.428	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.093	-2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.058	-6.1	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.603	-2.6	100	0.00
75 TMP Naphthalene	1.938	2.054	-6.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.846	-7.2	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.73	96	117219	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	99384	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	63257	10.000	ppb	# 0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.17	113	35928	9.621	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	96.20%
30) 1,2-Dichloroethane-d4	4.45	102	6501	9.289	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	92.90%
35) Toluene-d8	6.11	98	104513	9.919	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	99.20%
57) 4-Bromofluorobenzene	8.51	95	37650	9.822	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.20%
<b>Target Compounds</b>						
2) Ethanol	2.32	45	3375	No Calib		Qvalue
4) Dichlorodifluoromethane	1.11	85	1050990	153.942	ppb	95
5) Chloromethane	1.25	50	667273	147.515	ppb	96
6] Vinyl chloride	1.33	62	687955	157.271	ppb	100
7) Bromomethane	1.57	94	627133	138.922	ppb	95
8] Chloroethane	1.64	64	344723	147.194	ppb	97
9) Trichlorofluoromethane	1.83	101	1819681	152.886	ppb	99
10) 2-Propanol	2.32	45	3375	No Calib	#	
11) Acetone	2.32	58	188547	784.265	ppb	87
12] 1,1-Dichloroethene	2.26	96	427393	147.070	ppb	96
13) Hexane	3.16	57	396505	148.724	ppb	92
14) Methylene chloride	2.68	84	382832	151.780	ppb	98
15) t-Butyl alcohol (TBA)	2.81	59	185452	709.522	ppb	98
16] Methyl t-butyl ether (...)	2.92	73	995729	142.593	ppb	99
17] trans-1,2-Dichloroethene	2.91	96	462063	143.665	ppb	98
18) Diisopropyl ether (DIPE)	3.34	45	916868	146.620	ppb	98
19] 1,1-Dichloroethane	3.27	63	575263	144.070	ppb	99
20) Ethyl t-butyl ether (E...)	3.65	87	494774	146.981	ppb	99
21) 2,2-Dichloropropane	3.76	77	435392	155.771	ppb	96
22] cis-1,2-Dichloroethene	3.77	96	498200	143.466	ppb	98
23) Chloroform	4.04	83	743218	143.617	ppb	99
24) 2-Butanone (MEK)	3.78	43	859502	781.318	ppb	97
25) t-Amyl methyl ether (T...)	4.61	73	931321	144.279	ppb	99
26] 1,2-Dichloroethane (EDC)	4.52	62	495455	138.995	ppb	98
27] 1,1,1-Trichloroethane	4.19	97	801042	146.055	ppb	100
28) 1,1-Dichloropropene	4.33	75	516411	137.634	ppb	95
29) Carbon tetrachloride	4.33	117	880569	151.128	ppb	99
31] Benzene	4.50	78	1407955	152.013	ppb	100
32] Trichloroethene	5.05	95	534948	150.083	ppb	98
33) 1,2-Dichloropropane	5.24	63	292552	151.341	ppb	99
34) Bromodichloromethane	5.48	83	545993	147.218	ppb	99
36) Dibromomethane	5.34	93	295279	145.874	ppb	98

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

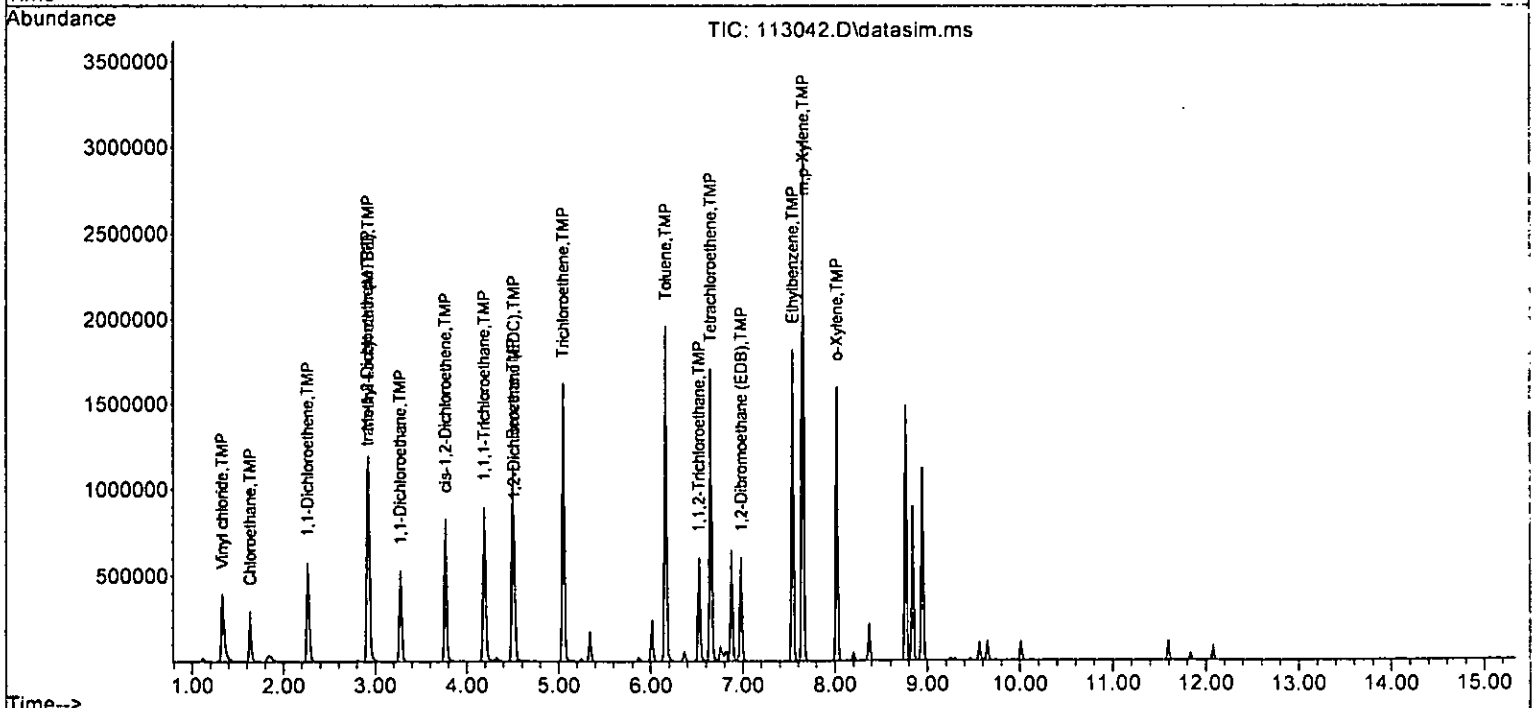
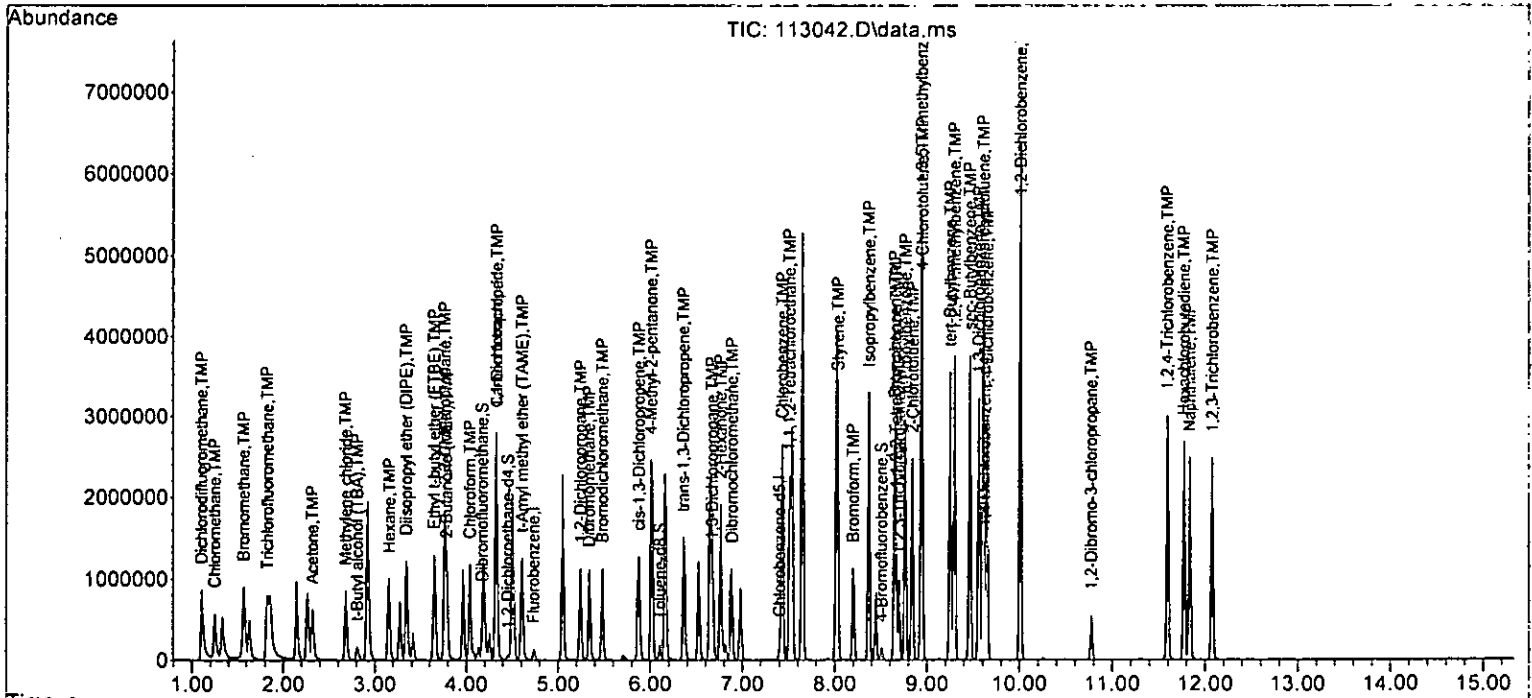
Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	348823	749.754	ppb	93
38) cis-1,3-Dichloropropene	5.88	75	576011	149.586	ppb	96
40] Toluene	6.16	92	1044328	151.207	ppb	97
41) trans-1,3-Dichloropropene	6.36	75	543621	153.753	ppb	96
42] 1,1,2-Trichloroethane	6.53	83	291743	150.178	ppb	100
43) 2-Hexanone	6.76	43	1041427	740.412	ppb	99
44) 1,3-Dichloropropane	6.67	76	485486	144.539	ppb	98
45] Tetrachloroethene	6.65	164	622759	154.165	ppb	100
46) Dibromochloromethane	6.88	129	687259	162.637	ppb	100
47] 1,2-Dibromoethane (EDB)	6.98	107	477345	153.380	ppb	87
48) Chlorobenzene	7.43	112	1438695	153.503	ppb	99
49] Ethylbenzene	7.54	91	1812258	147.582	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.51	131	647996	157.993	ppb	97
51] m,p-Xylene	7.65	106	1605574	297.635	ppb	97
52] o-Xylene	8.02	106	817061	150.869	ppb	99
53) Styrene	8.03	104	1275966	151.312	ppb	98
54) Isopropylbenzene	8.37	105	2055675	152.860	ppb	98
55) Bromoform	8.20	173	508990	169.357	ppb	97
58) n-Propylbenzene	8.77	91	2027700	142.000	ppb	100
59) Bromobenzene	8.65	156	785512	151.209	ppb	90
60) 1,3,5-Trimethylbenzene	8.94	105	1710262	147.273	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.66	83	384989	142.346	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	312216	146.291	ppb	98
63) 2-Chlorotoluene	8.84	91	1179819	145.432	ppb	93
64) 4-Chlorotoluene	8.95	91	1399496	142.553	ppb	98
65) tert-Butylbenzene	9.25	119	1839752	149.449	ppb	98
66) 1,2,4-Trimethylbenzene	9.30	105	1852317	148.256	ppb	97
67) sec-Butylbenzene	9.46	105	2346929	154.864	ppb	100
68) p-Isopropyltoluene	9.61	119	2366037	155.869	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	1407356	150.725	ppb	99
70) 1,4-Dichlorobenzene	9.65	146	1387577	150.690	ppb	98
71) 1,2-Dichlorobenzene	10.01	146	1355064	150.648	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	87809	153.271	ppb	94
73) 1,2,4-Trichlorobenzene	11.59	180	1004258	159.201	ppb	99
74) Hexachlorobutadiene	11.77	225	571703	153.794	ppb	99
75) Naphthalene	11.83	128	1948939	158.946	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	802525	160.751	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	100	0.01
3 S Dibromofluoromethane	10.000	9.568	4.3	100	0.00
4 TMP Dichlorodifluoromethane	200.000	186.745	6.6	100	0.02
5 TMP Chloromethane	200.000	180.578	9.7	100	0.01
6 TMP Vinyl chloride	200.000	191.884	4.1	100	0.02
7 TMP Bromomethane	200.000	171.730	14.1	100	0.02
8 TMP Chloroethane	200.000	181.174	9.4	100	0.00
9 TMP Trichlorofluoromethane	200.000	186.595	6.7	100	0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.01
11 TMP Acetone	1000.000	946.210	5.4	100	0.01
12 TMP 1,1-Dichloroethene	200.000	182.556	8.7	100	0.02
13 TMP Hexane	200.000	198.246	0.9	100	0.00
14 TMP Methylene chloride	200.000	199.000	0.5	100	0.01
15 TMP t-Butyl alcohol (TBA)	1000.000	888.173	11.2	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	200.000	174.426	12.8	100	0.01
17 TMP trans-1,2-Dichloroethene	200.000	179.149	10.4	100	0.01
18 TMP Diisopropyl ether (DIPE)	200.000	180.863	9.6	100	0.00
19 TMP 1,1-Dichloroethane	200.000	177.819	11.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	200.000	182.578	8.7	100	0.00
21 TMP 2,2-Dichloropropane	200.000	179.541	10.2	100	0.01
22 TMP cis-1,2-Dichloroethene	200.000	177.244	11.4	100	0.01
23 TMP Chloroform	200.000	178.043	11.0	100	0.00
24 TMP 2-Butanone (MEK)	1000.000	968.069	3.2	100	0.01
25 TMP t-Amyl methyl ether (TAME)	200.000	177.996	11.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	200.000	169.882	15.1	100	0.01
27 TMP 1,1,1-Trichloroethane	200.000	179.141	10.4	100	0.00
28 TMP 1,1-Dichloropropene	200.000	174.020	13.0	100	0.00
29 TMP Carbon tetrachloride	200.000	188.584	5.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.243	-2.4	100	0.01
31 TMP Benzene	200.000	187.627	6.2	100	0.00
32 TMP Trichloroethene	200.000	169.826	15.1	100	0.00
33 TMP 1,2-Dichloropropane	200.000	189.233	5.4	100	0.00
34 TMP Bromodichloromethane	200.000	182.228	8.9	100	0.00
35 S Toluene-d8	10.000	10.207	-2.1	100	0.00
36 TMP Dibromomethane	200.000	181.966	9.0	100	0.01
37 TMP 4-Methyl-2-pentanone	1000.000	926.619	7.3	100	0.01
38 TMP cis-1,3-Dichloropropene	200.000	188.824	5.6	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	200.000	186.319	6.8	100	0.00
41 TMP trans-1,3-Dichloropropene	200.000	186.091	7.0	100	0.00
42 TMP 1,1,2-Trichloroethane	200.000	183.562	8.2	100	0.00
43 TMP 2-Hexanone	1000.000	894.969	10.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	200.000	176.483	11.8	100	0.01
45 TMP Tetrachloroethene	200.000	196.750	1.6	100	0.00
46 TMP Dibromochloromethane	200.000	197.992	1.0	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	200.000	188.407	5.8	100	0.01
48 TMP Chlorobenzene	200.000	187.989	6.0	100	0.00
49 TMP Ethylbenzene	200.000	179.962	10.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	200.000	192.113	3.9	100	0.00
51 TMP m,p-Xylene	400.000	363.499	9.1	100	0.00
52 TMP o-Xylene	200.000	183.452	8.3	100	0.00
53 TMP Styrene	200.000	184.517	7.7	100	0.00
54 TMP Isopropylbenzene	200.000	187.037	6.5	100	0.00
55 TMP Bromoform	200.000	209.783	-4.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.667	3.3	100	0.00
58 TMP n-Propylbenzene	200.000	178.180	10.9	100	0.00
59 TMP Bromobenzene	200.000	189.676	5.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	200.000	186.632	6.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	200.000	202.626	-1.3	100	0.00
62 TMP 1,2,3-Trichloropropane	200.000	182.562	8.7	100	0.00
63 TMP 2-Chlorotoluene	200.000	181.804	9.1	100	0.00
64 TMP 4-Chlorotoluene	200.000	179.365	10.3	100	0.00
65 TMP tert-Butylbenzene	200.000	187.546	6.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	200.000	187.456	6.3	100	0.00
67 TMP sec-Butylbenzene	200.000	194.980	2.5	100	0.00
68 TMP p-Isopropyltoluene	200.000	197.073	1.5	100	0.00
69 TMP 1,3-Dichlorobenzene	200.000	188.578	5.7	100	0.00
70 TMP 1,4-Dichlorobenzene	200.000	188.964	5.5	100	0.00
71 TMP 1,2-Dichlorobenzene	200.000	188.064	6.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	200.000	191.540	4.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	200.000	204.783	-2.4	100	0.00
74 TMP Hexachlorobutadiene	200.000	192.410	3.8	100	0.00
75 TMP Naphthalene	200.000	201.583	-0.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	200.000	205.372	-2.7	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.01
3 S Dibromofluoromethane	0.319	0.305	4.4	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.544	6.5	100	0.02
5 TMP Chloromethane	0.386	0.348	9.8	100	0.01
6 TMP Vinyl chloride	0.373	0.358	4.0	100	0.02
7 TMP Bromomethane	0.385	0.331	14.0	100	0.02
8 TMP Chloroethane	0.200	0.181	9.5	100	0.00
9 TMP Trichlorofluoromethane	1.015	0.947	6.7	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.01
11 TMP Acetone	0.022	0.018	18.2	100	0.01
12 TMP 1,1-Dichloroethene	0.248	0.226	8.9	100	0.02
13 TMP Hexane	0.236	0.225	4.7	100	0.00
14 TMP Methylene chloride	0.247	0.206	16.6	100	0.01
15 TMP t-Butyl alcohol (TBA)	0.022	0.020#	9.1	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.520	12.8	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.246	10.2	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.482#	9.6	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.303	11.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.262	8.7	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.214	27.9#	100	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.263	11.1	100	0.01
23 TMP Chloroform	0.441	0.393	10.9	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.086	15.7	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.490#	11.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.258	22.8#	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.419	10.5	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.279	12.8	100	0.00
29 TMP Carbon tetrachloride	0.497	0.469	5.6	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.01
31 TMP Benzene	0.849	0.741	12.7	100	0.00
32 TMP Trichloroethene	0.304	0.258	15.1	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.156	17.5	100	0.00
34 TMP Bromodichloromethane	0.316	0.288	8.9	100	0.00
35 S Toluene-d8	0.899	0.917	-2.0	100	0.00
36 TMP Dibromomethane	0.173	0.157	9.2	100	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.037	7.5	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.310	5.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.647	10.0	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.331	7.0	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.179	12.3	100	0.00
43 TMP 2-Hexanone	0.142	0.127	10.6	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.298#	11.8	100	0.01
45 TMP Tetrachloroethene	0.443	0.392	11.5	100	0.00
46 TMP Dibromochloromethane	0.425	0.421	0.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.295	11.9	100	0.01
48 TMP Chlorobenzene	0.943	0.886	6.0	100	0.00
49 TMP Ethylbenzene	1.560	1.112	28.7#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.396	4.1	100	0.00
51 TMP m,p-Xylene	0.718	0.493	31.3#	100	0.00
52 TMP o-Xylene	0.611	0.500	18.2	100	0.00
53 TMP Styrene	0.848	0.783	7.7	100	0.00
54 TMP Isopropylbenzene	1.353	1.265	6.5	100	0.00
55 TMP Bromoform	0.302	0.317	-5.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.586	3.3	100	0.00
58 TMP n-Propylbenzene	2.257	2.011	10.9	100	0.00
59 TMP Bromobenzene	0.821	0.779	5.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.713	6.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.433#	0.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.308#	8.6	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.166	9.0	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.392	10.3	100	0.00
65 TMP tert-Butylbenzene	1.946	1.825	6.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.851	6.3	100	0.00
67 TMP sec-Butylbenzene	2.396	2.336	2.5	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.365	1.5	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.392	5.7	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.375	5.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.337	6.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.087	4.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.021	-2.4	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.565	3.9	100	0.00
75 TMP Naphthalene	1.938	1.954	-0.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.810	-2.7	100	0.00

(#) = Out of Range

SPCC's out = 7 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCM513

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.75	96	117120	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	100115	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	62157	10.000	ppb	# 0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	35699	9.568	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	95.70%	
30) 1,2-Dichloroethane-d4	4.47	102	7163	10.243	ppb	0.01	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	102.40%	
35) Toluene-d8	6.11	98	107450	10.207	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	102.10%	
57) 4-Bromofluorobenzene	8.51	95	36410	9.667	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	96.70%	
Target Compounds							
							Qvalue
2) Ethanol	2.34	45	3910	No Calib			
4) Dichlorodifluoromethane	1.13	85	1273859	186.745	ppb		96
5) Chloromethane	1.26	50	816144	180.578	ppb		97
6] Vinyl chloride	1.35	62	838658	191.884	ppb		95
7) Bromomethane	1.59	94	774583	171.730	ppb		98
8] Chloroethane	1.65	64	423945	181.174	ppb		91
9) Trichlorofluoromethane	1.84	101	2219014	186.595	ppb		99
10) 2-Propanol	2.34	45	3910	No Calib			
11) Acetone	2.33	58	214203	946.210	ppb		99
12] 1,1-Dichloroethene	2.28	96	530068	182.556	ppb		84
13) Hexane	3.17	57	527914	198.246	ppb		93
14) Methylene chloride	2.69	84	482218	199.000	ppb		96
15) t-Butyl alcohol (TBA)	2.82	59	231951	888.173	ppb		96
16] Methyl t-butyl ether (...)	2.93	73	1216988	174.426	ppb		98
17] trans-1,2-Dichloroethene	2.92	96	575701	179.149	ppb		97
18) Diisopropyl ether (DIPE)	3.35	45	1130044	180.863	ppb		98
19] 1,1-Dichloroethane	3.28	63	709422	177.819	ppb		98
20) Ethyl t-butyl ether (E...)	3.66	87	614083	182.578	ppb		96
21) 2,2-Dichloropropane	3.77	77	501274	179.541	ppb		99
22] cis-1,2-Dichloroethene	3.78	96	614975	177.244	ppb		93
23) Chloroform	4.04	83	920593	178.043	ppb		98
24) 2-Butanone (MEK)	3.79	43	1007272	968.069	ppb		96
25) t-Amyl methyl ether (T...)	4.61	73	1147998	177.996	ppb		98
26] 1,2-Dichloroethane (EDC)	4.53	62	605028	169.882	ppb		94
27] 1,1,1-Trichloroethane	4.19	97	981676	179.141	ppb		94
28) 1,1-Dichloropropene	4.33	75	652381	174.020	ppb		98
29) Carbon tetrachloride	4.33	117	1097884	188.584	ppb		99
31] Benzene	4.50	78	1736323	187.627	ppb		95
32] Trichloroethene	5.05	95	604810	169.826	ppb		86
33) 1,2-Dichloropropane	5.24	63	365403	189.233	ppb		99
34) Bromodichloromethane	5.48	83	675265	182.228	ppb		98
36) Dibromomethane	5.35	93	368026	181.966	ppb		88

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIion	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	430745	926.619	ppb	85
38) cis-1,3-Dichloropropene	5.88	75	726492	188.824	ppb	96
40] Toluene	6.16	92	1296292	186.319	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	662797	186.091	ppb	95
42] 1,1,2-Trichloroethane	6.53	83	359215	183.562	ppb	96
43) 2-Hexanone	6.76	43	1268078	894.969	ppb	99
44) 1,3-Dichloropropane	6.68	76	597144	176.483	ppb	98
45] Tetrachloroethene	6.65	164	784289	196.750	ppb	99
46) Dibromochloromethane	6.88	129	842817	197.992	ppb	100
47] 1,2-Dibromoethane (EDB)	6.98	107	590658	188.407	ppb	89
48) Chlorobenzene	7.43	112	1774870	187.989	ppb	100
49] Ethylbenzene	7.54	91	2225991	179.962	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	793736	192.113	ppb	98
51] m,p-Xylene	7.65	106	1975148	363.499	ppb	98
52] o-Xylene	8.02	106	1000800	183.452	ppb	99
53) Styrene	8.03	104	1567416	184.517	ppb	99
54) Isopropylbenzene	8.37	105	2533805	187.037	ppb	98
55) Bromoform	8.20	173	635124	209.783	ppb	97
58) n-Propylbenzene	8.77	91	2500105	178.180	ppb	99
59) Bromobenzene	8.65	156	968212	189.676	ppb	91
60) 1,3,5-Trimethylbenzene	8.94	105	2129640	186.632	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.66	83	538477	202.626	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	382851	182.562	ppb	98
63) 2-Chlorotoluene	8.84	91	1449239	181.804	ppb	96
64) 4-Chlorotoluene	8.95	91	1730265	179.365	ppb	99
65) tert-Butylbenzene	9.25	119	2268586	187.546	ppb	98
66) 1,2,4-Trimethylbenzene	9.30	105	2301350	187.456	ppb	98
67) sec-Butylbenzene	9.46	105	2903505	194.980	ppb	99
68) p-Isopropyltoluene	9.61	119	2939476	197.073	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	1730178	188.578	ppb	99
70) 1,4-Dichlorobenzene	9.65	146	1709748	188.964	ppb	99
71) 1,2-Dichlorobenzene	10.01	146	1662203	188.064	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	107825	191.540	ppb	91
73) 1,2,4-Trichlorobenzene	11.60	180	1269334	204.783	ppb	99
74) Hexachlorobutadiene	11.77	225	702813	192.410	ppb	99
75) Naphthalene	11.83	128	2428759	201.583	ppb	99
76) 1,2,3-Trichlorobenzene	12.08	180	1007461	205.372	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	124698	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	103846	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	61463	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	39205	9.869	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.70%
30) 1,2-Dichloroethane-d4	4.45	102	6939	9.320	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	93.20%
35) Toluene-d8	6.11	98	106988	9.545	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	95.50%
57) 4-Bromofluorobenzene	8.51	95	37298	10.014	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	100.10%
Target Compounds						
						Qvalue
2) Ethanol	2.33	45	213	No Calib		.
4) Dichlorodifluoromethane	1.12	85	59465	8.188	ppb	96
5) Chloromethane	1.26	50	43638	9.068	ppb	98
6] Vinyl chloride	1.34	62	47873	10.288	ppb	98
7) Bromomethane	1.58	94	50415	10.498	ppb	90
8] Chloroethane	1.65	64	24653	9.895	ppb	98
9) Trichlorofluoromethane	1.83	101	119782	9.460	ppb	98
10) 2-Propanol	2.33	45	213	No Calib	#	.
11) Acetone	2.33	58	13390	43.221	ppb	93
12] 1,1-Dichloroethene	2.27	96	32364	10.469	ppb	87
13) Hexane	3.16	57	28078	9.717	ppb	90
14) Methylene chloride	2.68	84	30442	9.551	ppb	93
15) t-Butyl alcohol (TBA)	2.82	59	13874	49.897	ppb	98
16] Methyl t-butyl ether (...)	2.93	73	77423	10.422	ppb	96
17] trans-1,2-Dichloroethene	2.92	96	35199	10.288	ppb	89
18) Diisopropyl ether (DIPE)	3.35	45	70925	10.662	ppb	95
19] 1,1-Dichloroethane	3.27	63	45012	10.597	ppb	96
20) Ethyl t-butyl ether (E...)	3.66	87	36969	10.324	ppb	96
21) 2,2-Dichloropropane	3.76	77	28424	9.270	ppb	94
22] cis-1,2-Dichloroethene	3.77	96	37366	10.115	ppb	96
23) Chloroform	4.04	83	53852	9.782	ppb	96
24) 2-Butanone (MEK)	3.79	43	62726	44.840	ppb	96
25) t-Amyl methyl ether (T...)	4.61	73	69737	10.156	ppb	99
26] 1,2-Dichloroethane (EDC)	4.53	62	38759	10.204	ppb	93
27] 1,1,1-Trichloroethane	4.19	97	61168	10.484	ppb	98
28) 1,1-Dichloropropene	4.33	75	36980	9.265	ppb	95
29) Carbon tetrachloride	4.33	117	63400	10.228	ppb	97
31] Benzene	4.50	78	104054	10.548	ppb	98
32] Trichloroethene	5.05	95	41620	10.976	ppb	94
33) 1,2-Dichloropropane	5.24	63	22401	10.724	ppb	100
34) Bromodichloromethane	5.48	83	39339	9.971	ppb	98
36) Dibromomethane	5.35	93	22161	10.291	ppb	# 83

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

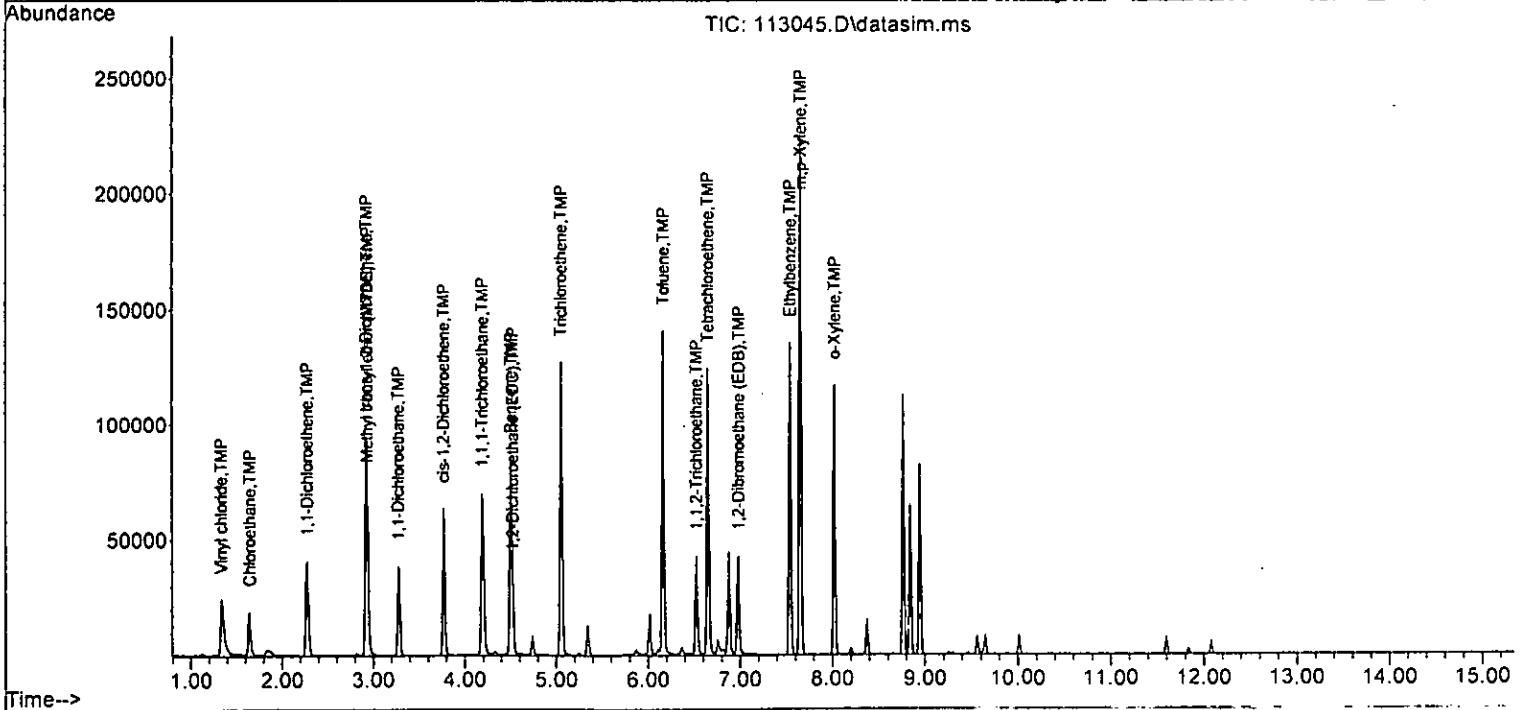
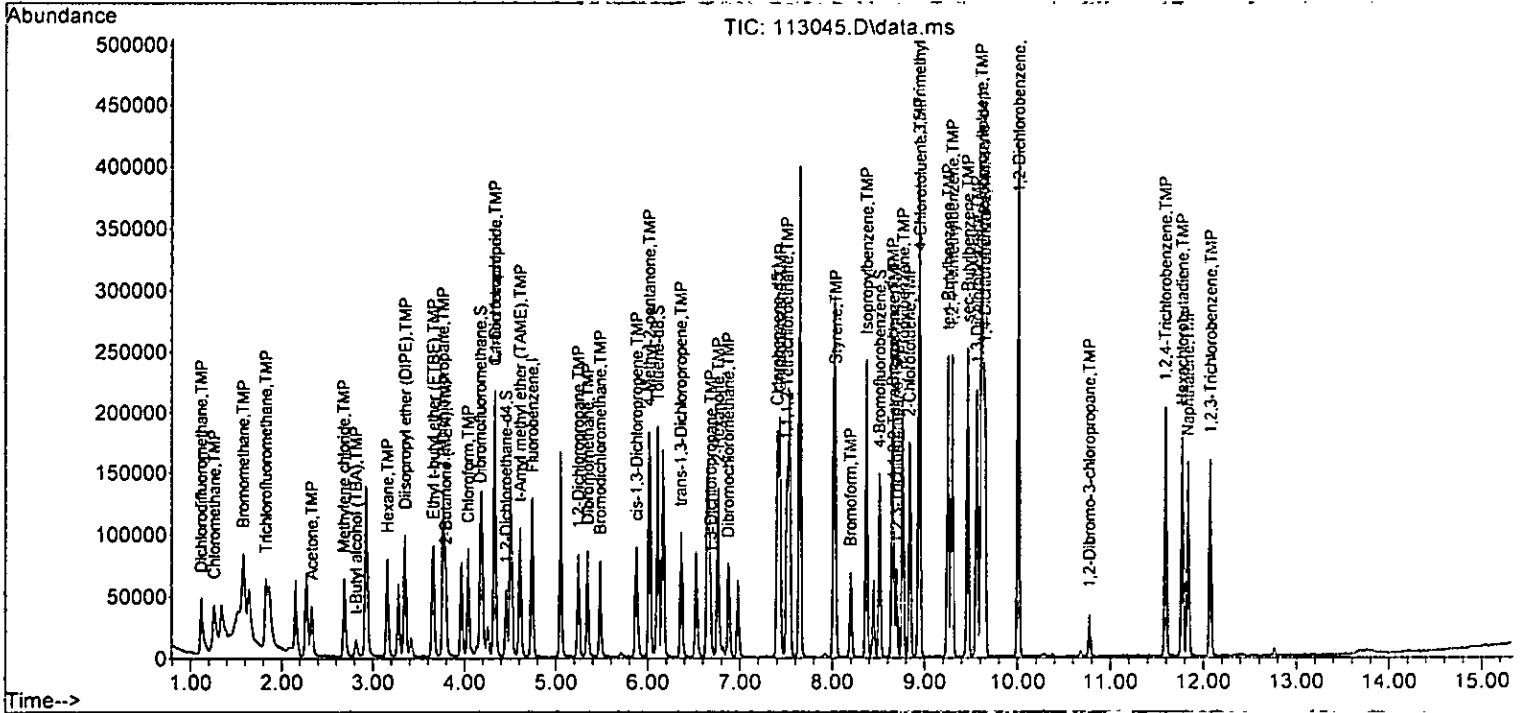
Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	25246	51.009	ppb	94
38) cis-1,3-Dichloropropene	5.88	75	39247	9.581	ppb	98
40] Toluene	6.16	92	74463	10.312	ppb	100
41) trans-1,3-Dichloropropene	6.36	75	36839	9.972	ppb	99
42] 1,1,2-Trichloroethane	6.53	83	20856	10.267	ppb	99
43) 2-Hexanone	6.76	43	75374	51.285	ppb	98
44) 1,3-Dichloropropane	6.68	76	36229	10.323	ppb	98
45] Tetrachloroethene	6.65	164	45273	10.027	ppb	99
46) Dibromochloromethane	6.87	129	45473	10.299	ppb	99
47] 1,2-Dibromoethane (EDB)	6.98	107	34852	10.705	ppb	88
48) Chlorobenzene	7.43	112	101280	10.342	ppb	99
49] Ethylbenzene	7.54	91	136887	10.622	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	43776	10.215	ppb	95
51] m,p-Xylene	7.65	106	119589	21.103	ppb	100
52] o-Xylene	8.02	106	58931	10.393	ppb	98
53) Styrene	8.03	104	90973	10.325	ppb	98
54) Isopropylbenzene	8.37	105	147220	10.477	ppb	100
55) Bromoform	8.20	173	31070	9.894	ppb	98
58) n-Propylbenzene	8.77	91	146999	10.595	ppb	100
59) Bromobenzene	8.65	156	53090	10.518	ppb	91
60) 1,3,5-Trimethylbenzene	8.94	105	117493	10.413	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.66	83	25685	9.761	ppb	97
62) 1,2,3-Trichloropropane	8.70	75	21906	10.564	ppb	95
63) 2-Chlorotoluene	8.84	91	84090	10.668	ppb	98
64) 4-Chlorotoluene	8.95	91	100977	10.586	ppb	99
65) tert-Butylbenzene	9.25	119	122831	10.269	ppb	97
66) 1,2,4-Trimethylbenzene	9.30	105	123379	10.163	ppb	99
67) sec-Butylbenzene	9.46	105	155368	10.551	ppb	99
68) p-Isopropyltoluene	9.61	119	152119	10.314	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	94080	10.370	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	97689	10.919	ppb	98
71) 1,2-Dichlorobenzene	10.01	146	91556	10.476	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	5725	10.285	ppb	97
73) 1,2,4-Trichlorobenzene	11.59	180	65202	10.638	ppb	98
74) Hexachlorobutadiene	11.77	225	36810	10.191	ppb	99
75) Naphthalene	11.83	128	123128	10.335	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	50934	10.500	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	108	0.01
2 TMP	Ethanol	-1.000	0.000	0.0	51	0.00
3 S	Dibromofluoromethane	10.000	9.869	1.3	102	0.00
4 TMP	Dichlorodifluoromethane	10.000	8.188	18.1	86	0.00
5 TMP	Chloromethane	10.000	9.068	9.3	94	0.01
6 TMP	Vinyl chloride	10.000	10.288	-2.9	96	0.00
7 TMP	Bromomethane	10.000	10.498	-5.0	101	0.00
8 TMP	Chloroethane	10.000	9.895	1.1	98	0.00
9 TMP	Trichlorofluoromethane	10.000	9.460	5.4	97	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	50.000	43.221	13.6	99	0.01
12 TMP	1,1-Dichloroethene	10.000	10.469	-4.7	103	0.01
13 TMP	Hexane	10.000	9.717	2.8	98	0.00
14 TMP	Methylene chloride	10.000	9.551	4.5	103	0.00
15 TMP	t-Butyl alcohol (TBA)	50.000	49.897	0.2	106	0.01
16 TMP	Methyl t-butyl ether (MTBE)	10.000	10.422	-4.2	103	0.01
17 TMP	trans-1,2-Dichloroethene	10.000	10.288	-2.9	103	0.01
18 TMP	Diisopropyl ether (DIPE)	10.000	10.662	-6.6	101	0.00
19 TMP	1,1-Dichloroethane	10.000	10.597	-6.0	101	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	10.000	10.324	-3.2	106	0.00
21 TMP	2,2-Dichloropropane	10.000	9.270	7.3	92	0.00
22 TMP	cis-1,2-Dichloroethene	10.000	10.115	-1.2	99	0.00
23 TMP	Chloroform	10.000	9.782	2.2	101	0.00
24 TMP	2-Butanone (MEK)	50.000	44.840	10.3	98	0.01
25 TMP	t-Amyl methyl ether (TAME)	10.000	10.156	-1.6	102	0.00
26 TMP	1,2-Dichloroethane (EDC)	10.000	10.204	-2.0	100	0.01
27 TMP	1,1,1-Trichloroethane	10.000	10.484	-4.8	104	0.00
28 TMP	1,1-Dichloropropene	10.000	9.265	7.3	97	0.00
29 TMP	Carbon tetrachloride	10.000	10.228	-2.3	109	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.320	6.8	98	0.00
31 TMP	Benzene	10.000	10.548	-5.5	101	0.00
32 TMP	Trichloroethene	10.000	10.976	-9.8	106	0.00
33 TMP	1,2-Dichloropropane	10.000	10.724	-7.2	103	0.00
34 TMP	Bromodichloromethane	10.000	9.971	0.3	103	0.00
35 S	Toluene-d8	10.000	9.545	4.6	98	0.00
36 TMP	Dibromomethane	10.000	10.291	-2.9	104	0.01
37 TMP	4-Methyl-2-pentanone	50.000	51.009	-2.0	106	0.00
38 TMP	cis-1,3-Dichloropropene	10.000	9.581	4.2	101	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
40 TMP	Toluene	10.000	10.312	-3.1	101	0.00
41 TMP	trans-1,3-Dichloropropene	10.000	9.972	0.3	102	0.00
42 TMP	1,1,2-Trichloroethane	10.000	10.267	-2.7	100	0.00
43 TMP	2-Hexanone	50.000	51.285	-2.6	103	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.323	-3.2	101	0.01
45 TMP Tetrachloroethene	10.000	10.027	-0.3	101	0.00
46 TMP Dibromochloromethane	10.000	10.299	-3.0	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.705	-7.1	101	0.01
48 TMP Chlorobenzene	10.000	10.342	-3.4	103	0.00
49 TMP Ethylbenzene	10.000	10.622	-6.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.215	-2.1	103	0.00
51 TMP m,p-Xylene	20.000	21.103	-5.5	100	0.00
52 TMP o-Xylene	10.000	10.393	-3.9	101	0.00
53 TMP Styrene	10.000	10.325	-3.2	103	0.00
54 TMP Isopropylbenzene	10.000	10.477	-4.8	104	0.00
55 TMP Bromoform	10.000	9.894	1.1	100	0.00
-----					
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	94	0.00
57 S 4-Bromofluorobenzene	10.000	10.014	-0.1	94	0.00
58 TMP n-Propylbenzene	10.000	10.595	-6.0	101	0.00
59 TMP Bromobenzene	10.000	10.518	-5.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.413	-4.1	101	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.761	2.4	94	0.00
62 TMP 1,2,3-Trichloropropane	10.000	10.564	-5.6	99	0.00
63 TMP 2-Chlorotoluene	10.000	10.668	-6.7	101	0.00
64 TMP 4-Chlorotoluene	10.000	10.586	-5.9	100	0.00
65 TMP tert-Butylbenzene	10.000	10.269	-2.7	99	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.163	-1.6	100	0.00
67 TMP sec-Butylbenzene	10.000	10.551	-5.5	101	0.00
68 TMP p-Isopropyltoluene	10.000	10.314	-3.1	99	0.00
69 TMP 1,3-Dichlorobenzene	10.000	10.370	-3.7	99	0.00
70 TMP 1,4-Dichlorobenzene	10.000	10.919	-9.2	104	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.476	-4.8	102	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	10.285	-2.9	104	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	10.638	-6.4	102	0.00
74 TMP Hexachlorobutadiene	10.000	10.191	-1.9	101	0.00
75 TMP Naphthalene	10.000	10.335	-3.4	101	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.500	-5.0	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	108	0.01
2 TMP Ethanol	0.000	0.000#	0.0	51	0.00
3 S Dibromofluoromethane	0.319	0.314	1.6	102	0.00
4 TMP Dichlorodifluoromethane	0.582	0.477	18.0	86	0.00
5 TMP Chloromethane	0.386	0.350	9.3	94	0.01
6 TMP Vinyl chloride	0.373	0.384	-2.9	96	0.00
7 TMP Bromomethane	0.385	0.404	-4.9	101	0.00
8 TMP Chloroethane	0.200	0.198	1.0	98	0.00
9 TMP Trichlorofluoromethane	1.015	0.961	5.3	97	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.021	4.5	99	0.01
12 TMP 1,1-Dichloroethene	0.248	0.260	-4.8	103	0.01
13 TMP Hexane	0.236	0.225	4.7	98	0.00
14 TMP Methylene chloride	0.247	0.244	1.2	103	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.022#	0.0	106	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.621	-4.2	103	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.282	-2.9	103	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.569	-6.8	101	0.00
19 TMP 1,1-Dichloroethane	0.341	0.361	-5.9	101	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.296	-3.1	106	0.00
21 TMP 2,2-Dichloropropane	0.297	0.228	23.2#	92	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.300	-1.4	99	0.00
23 TMP Chloroform	0.441	0.432	2.0	101	0.00
24 TMP 2-Butanone (MEK)	0.102	0.101	1.0	98	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.559	-1.5	102	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.311	6.9	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.491	-4.9	104	0.00
28 TMP 1,1-Dichloropropene	0.320	0.297	7.2	97	0.00
29 TMP Carbon tetrachloride	0.497	0.508	-2.2	109	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.056	6.7	98	0.00
31 TMP Benzene	0.849	0.834	1.8	101	0.00
32 TMP Trichloroethene	0.304	0.334	-9.9	106	0.00
33 TMP 1,2-Dichloropropane	0.189	0.180	4.8	103	0.00
34 TMP Bromodichloromethane	0.316	0.315	0.3	103	0.00
35 S Toluene-d8	0.899	0.858	4.6	98	0.00
36 TMP Dibromomethane	0.173	0.178	-2.9	104	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.040	0.0	106	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.315	4.3	101	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
40 TMP Toluene	0.719	0.717	0.3	101	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.355	0.3	102	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.201	1.5	100	0.00
43 TMP 2-Hexanone	0.142	0.145	-2.1	103	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.349	-3.3	101	0.01
45 TMP Tetrachloroethene	0.443	0.436	1.6	101	0.00
46 TMP Dibromochloromethane	0.425	0.438	-3.1	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.336	-0.3	101	0.01
48 TMP Chlorobenzene	0.943	0.975	-3.4	103	0.00
49 TMP Ethylbenzene	1.560	1.318	15.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.422	-2.2	103	0.00
51 TMP m,p-Xylene	0.718	0.576	19.8	100	0.00
52 TMP o-Xylene	0.611	0.567	7.2	101	0.00
53 TMP Styrene	0.848	0.876	-3.3	103	0.00
54 TMP Isopropylbenzene	1.353	1.418	-4.8	104	0.00
55 TMP Bromoform	0.302	0.299	1.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
57 S 4-Bromofluorobenzene	0.606	0.607	-0.2	94	0.00
58 TMP n-Propylbenzene	2.257	2.392	-6.0	101	0.00
59 TMP Bromobenzene	0.821	0.864	-5.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.912	-4.1	101	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.418#	3.5	94	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.356#	-5.6	99	0.00
63 TMP 2-Chlorotoluene	1.282	1.368	-6.7	101	0.00
64 TMP 4-Chlorotoluene	1.552	1.643	-5.9	100	0.00
65 TMP tert-Butylbenzene	1.946	1.998	-2.7	99	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.007	-1.6	100	0.00
67 TMP sec-Butylbenzene	2.396	2.528	-5.5	101	0.00
68 TMP p-Isopropyltoluene	2.400	2.475	-3.1	99	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.531	-3.7	99	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.589	-9.1	104	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.490	-4.8	102	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.093	-2.2	104	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.061	-6.4	102	0.00
74 TMP Hexachlorobutadiene	0.588	0.599	-1.9	101	0.00
75 TMP Naphthalene	1.938	2.003	-3.4	101	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.829	-5.1	104	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Method Path : Y:\Methods\Inst11\  
Method File : VB120222ms11.M  
Title : 8260 Purge & Trap Volatiles Dual Acquisition  
Last Update : Mon Dec 05 13:11:58 2022  
Response Via : Initial Calibration

Calibration Files  
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50=120223.D 100=120224.D 150=120225.D 200=120226.D

Compound	0.02	0.04	0.1	0.2	0.5	1	2	5	10	20	50	100	150	200	Avg	%RSD
1) I Fluorobenzene															0.000#	-1.00
2) TMP Ethanol															0.264	2.28
3) 5 Dibromofluorom...	0.256	0.253	0.269	0.272	0.259	0.265	0.262	0.263	0.261	0.267	0.260	0.273	0.259	0.270	2.60	2.60
4) TMP Dichlorodifluo...					0.714	0.714	0.700	0.673	0.714	0.702	0.726	0.745	0.714	0.714	2.60	2.60
5) TMP Chloromethane					1.323	1.330	0.970	0.824	0.828	0.827	0.852	0.871	0.840	0.846	0.951	21.29
6) TMP Vinyl chloride	2.094		0.822	0.788	0.742	0.776	0.767	0.705	0.772	0.742	0.759	0.770	0.738	0.737	0.862	43.04
7) TMP Bromomethane							0.655	0.437	0.456	0.414	0.402	0.409	0.380	0.375	0.441	20.54
8) TMP Chloroethane							0.334	0.345	0.365	0.321	0.361	0.332	0.355	0.362	0.320	5.59
9) TMP Trichlorofluor...							0.951	0.823	0.901	0.942	0.850	0.945	0.860	0.885	0.946	4.87
10) TMP 2-Propanol															0.881	0.899
11) TMP Acetone															0.000	-1.00
12) TMP 1,1-Dichloroet...	0.473		0.294	0.272	0.250	0.255	0.256	0.236	0.255	0.243	0.252	0.255	0.244	0.244	0.271	22.95
13) TMP Hexane					0.725	0.523	0.502	0.412	0.432	0.415	0.422	0.429	0.401	0.423	0.469	21.06
14) TMP Methylene chlo...							0.307	0.276	0.269	0.269	0.265	0.262	0.252	0.254	0.269	6.89
15) TMP t-Butyl alcoho...							0.049	0.050	0.050	0.046	0.046	0.043	0.045	0.044	0.046	5.37
16) TMP Methyl t-butyl...	1.329		0.793	0.818	0.785	0.802	0.785	0.733	0.784	0.753	0.754	0.759	0.731	0.726	0.812	19.45
17) TMP trans-1,2-Dich...	0.676		0.360	0.300	0.283	0.294	0.282	0.263	0.288	0.272	0.272	0.273	0.263	0.263	0.314	35.45
18) TMP Disopropyl et...					1.270	1.051	1.005	0.937	0.874	0.919	0.886	0.901	0.909	0.867	0.953	12.67
19) TMP 1,1-Dichloroet...	0.923		0.541	0.547	0.529	0.531	0.529	0.491	0.520	0.497	0.508	0.512	0.492	0.489	0.547	20.98
20) TMP Ethyl t-butyl ...					0.340	0.318	0.307	0.296	0.285	0.317	0.300	0.304	0.317	0.298	0.307	4.90
21) TMP 2,2-Dichloropr...					0.527	0.381	0.361	0.378	0.313	0.303	0.326	0.326	0.302	0.302	0.347	19.44
22) TMP cis-1,2-Dichlo...	0.631		0.343	0.326	0.310	0.310	0.309	0.286	0.302	0.291	0.295	0.297	0.290	0.289	0.329	27.95
23) TMP Chloroform					0.509	0.484	0.495	0.529	0.449	0.465	0.458	0.466	0.469	0.459	0.477	5.24
24) TMP 2-Butanone (MEK)					0.221	0.185	0.185	0.176	0.159	0.180	0.167	0.157	0.167	0.160	0.162	11.08
25) TMP t-Amyl methyl ...					0.848	0.734	0.802	0.771	0.710	0.723	0.712	0.714	0.716	0.695	0.702	6.53
26) TMP 1,2-Dichloroet...	1.205		0.515	0.468	0.425	0.424	0.422	0.444	0.468	0.458	0.452	0.462	0.456	0.465	0.494	46.22
27) TMP 1,1,1-Trichlor...	0.822		0.480	0.477	0.472	0.480	0.476	0.444	0.468	0.452	0.462	0.473	0.456	0.465	0.494	20.05
28) TMP 1,1-Dichloropr...					0.393	0.388	0.383	0.377	0.342	0.366	0.358	0.368	0.354	0.356	0.368	4.24
29) TMP Carbon tetrach...					0.431	0.368	0.411	0.401	0.383	0.395	0.377	0.395	0.401	0.396	0.396	4.22
30) S 1,2-Dichloroet...	0.060	0.061	0.059	0.062	0.056	0.063	0.055	0.059	0.060	0.060	0.060	0.063	0.057	0.060	0.061	4.28
31) TMP Benzene	1.993		1.100	1.101	1.055	1.061	1.059	0.984	1.029	0.988	1.000	1.012	0.983	0.977	1.103	24.55
32) TMP Trichloroethene	0.799		0.389	0.356	0.332	0.337	0.330	0.309	0.329	0.318	0.311	0.328	0.322	0.325	0.368	35.63
33) TMP 1,2-Dichloropr...					0.403	0.356	0.339	0.332	0.285	0.295	0.282	0.294	0.299	0.289	0.315	12.14
34) TMP Bromodichlorom...					0.456	0.352	0.385	0.406	0.357	0.358	0.352	0.363	0.374	0.360	0.365	8.36
35) S Toluene-d8	0.978	0.941	0.967	0.992	0.938	0.967	0.945	0.950	1.006	0.987	0.991	1.013	1.012	0.971	0.975	2.64
36) TMP Dibromomethane					0.198	0.223	0.173	0.192	0.166	0.176	0.168	0.176	0.178	0.173	0.181	9.23
37) TMP 4-Methyl-2-pen...					0.065	0.053	0.060	0.053	0.047	0.055	0.053	0.053	0.054	0.051	0.052	8.72



## Compound List Report GCMS11

Method Path : Y:\Methods\Inst11\  
 Method File : VB120222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022  
 Response Via : Initial Calibration

Total Cpnds : 76

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Fluorobenzene	96	4.63	1.000	A	1	A	B
2	T	Ethanol	45	1.86	0.402	A	1	A	B
3	S	Dibromofluoromethane	113	4.08	0.881	A	0	A	B
4	T	Dichlorodifluoromethane	85	1.09	0.235	A	1	A	B
5	T	Chloromethane	50	1.23	0.265	L	1	A	B
6	T	Vinyl chloride	-62	1.30	0.281	L	1	A	B
7	T	Bromomethane	94	1.54	0.333	L	1	A	B
8	T	Chloroethane	-64	1.61	0.347	L	1	A	B
9	T	Trichlorofluoromethane	101	1.77	0.384	A	1	A	B
10	T	2-Propanol	45	2.40	0.519	A	1	A	B
11	T	Acetone	58	2.27	0.490	A	1	A	B
12	T	1,1-Dichloroethene	-96	2.19	0.474	L	2	A	B
13	T	Hexane	57	3.06	0.660	L	2	A	B
14	T	Methylene chloride	84	2.61	0.563	Q	2	A	B
15	T	t-Butyl alcohol (TBA)	59	2.74	0.592	A	1	A	B
16	T	Methyl t-butyl ether (MTBE)	-73	2.84	0.613	L	1	A	B
17	T	trans-1,2-Dichloroethene	-96	2.83	0.611	L	2	A	B
18	T	Diisopropyl ether (DIPE)	45	3.24	0.701	A	3	A	B
19	T	1,1-Dichloroethane	-63	3.18	0.688	L	2	A	B
20	T	Ethyl t-butyl ether (ETBE)	87	3.55	0.767	A	3	A	B
21	T	2,2-Dichloropropane	77	3.67	0.792	L	1	A	B
22	T	cis-1,2-Dichloroethene	-96	3.67	0.793	L	2	A	B
23	T	Chloroform	83	3.94	0.851	A	1	A	B
24	T	2-Butanone (MEK)	43	3.71	0.801	L	2	A	B
25	T	t-Amyl methyl ether (TAME)	73	4.50	0.971	A	2	A	B
26	T	1,2-Dichloroethane (EDC)	-62	4.42	0.955	L	1	A	B
27	T	1,1,1-Trichloroethane	-97	4.08	0.882	L	2	A	B
28	T	1,1-Dichloropropene	75	4.22	0.911	A	2	A	B
29	T	Carbon tetrachloride	117	4.21	0.909	A	1	A	B
30	S	1,2-Dichloroethane-d4	102	4.36	0.941	A	1	A	B
31	T	Benzene	-78	4.39	0.949	Q	1	A	B
32	T	Trichloroethene	-95	4.93	1.065	L	3	A	B
33	T	1,2-Dichloropropane	63	5.13	1.108	A	1	A	B
34	T	Bromodichloromethane	83	5.37	1.161	A	2	A	B
35	S	Toluene-d8	98	5.98	1.293	A	1	A	B
36	T	Dibromomethane	93	5.23	1.131	A	2	A	B
37	T	4-Methyl-2-pentanone	85	5.91	1.276	A	2	A	B
38	T	cis-1,3-Dichloropropene	75	5.75	1.243	A	2	A	B
39	I	Chlorobenzene-d5	117	7.27	1.000	A	1	A	B
40	T	Toluene	-92	6.03	0.829	L	1	A	B
41	T	trans-1,3-Dichloropropene	75	6.25	0.859	A	2	A	B
42	T	1,1,2-Trichloroethane	-83	6.40	0.881	Q	2	A	B
43	T	2-Hexanone	43	6.64	0.914	A	3	A	B
44	T	1,3-Dichloropropane	76	6.55	0.901	A	1	A	B
45	T	Tetrachloroethene	-164	6.51	0.896	Q	3	A	B
46	T	Dibromochloromethane	129	6.75	0.929	A	1	A	B
47	T	1,2-Dibromoethane (EDB)	-107	6.85	0.943	L	2	A	B
48	T	Chlorobenzene	112	7.30	1.004	A	2	A	B
49	T	Ethylbenzene	-91	7.40	1.018	L	1	A	B
50	T	1,1,1,2-Tetrachloroethane	131	7.38	1.015	A	2	A	B
51	T	m,p-Xylene	-106	7.51	1.033	L	1	A	B
52	T	o-Xylene	-106	7.88	1.084	L	1	A	B
53	T	Styrene	104	7.90	1.086	A	1	A	B
54	T	Isopropylbenzene	105	8.23	1.131	A	1	A	B
55	T	Bromoform	173	8.07	1.110	A	2	A	B

56	I	1,4-Dichlorobenzene-d4	152	9.48	1.000	A	2	A	B
57	S	4-Bromofluorobenzene	95	8.38	0.884	A	2	A	B
58	T	n-Propylbenzene	91	8.62	0.909	A	1	A	B
59	T	Bromobenzene	156	8.51	0.898	A	2	A	B
60	T	1,3,5-Trimethylbenzene	105	8.79	0.927	A	1	A	B
61	T	1,1,2,2-Tetrachloroethane	83	8.53	0.900	A	2	A	B
62	T	1,2,3-Trichloropropane	75	8.57	0.904	A	3	A	R
63	T	2-Chlorotoluene	91	8.70	0.917	A	1	A	B
64	T	4-Chlorotoluene	91	8.81	0.929	A	1	A	B
65	T	tert-Butylbenzene	119	9.10	0.960	A	2	A	B
66	T	1,2,4-Trimethylbenzene	105	9.15	0.966	A	1	A	B
67	T	sec-Butylbenzene	105	9.31	0.982	A	1	A	B
68	T	p-Isopropyltoluene	119	9.46	0.998	A	2	A	B
69	T	1,3-Dichlorobenzene	146	9.42	0.993	A	2	A	B
70	T	1,4-Dichlorobenzene	146	9.50	1.002	A	2	A	B
71	T	1,2-Dichlorobenzene	146	9.87	1.041	A	2	A	B
72	T	1,2-Dibromo-3-chloropropane	75	10.64	1.122	A	2	A	B
73	T	1,2,4-Trichlorobenzene	180	11.44	1.207	A	2	A	B
74	T	Hexachlorobutadiene	225	11.61	1.225	A	2	A	B
75	T	Naphthalene	128	11.68	1.232	A	2	A	B
76	T	1,2,3-Trichlorobenzene	180	11.92	1.257	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

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VB120222ms11.M Mon Dec 05 13:50:05 2022

Calibration Status Report GCMS11

Method Path : Y:\Methods\Inst11\  
 Method File : VB120222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022  
 Response Via : Initial Calibration

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2	0.04	0	10	Y:\Proc_GCMS11\12-02-22\120214.D
3	0.1	0	10	Y:\Proc_GCMS11\12-02-22\120215.D
4	0.2	0	10	Y:\Proc_GCMS11\12-02-22\120216.D
5	0.5	1	10	Y:\Proc_GCMS11\12-02-22\120217.D
6	1	1	10	Y:\Proc_GCMS11\12-02-22\120218.D
7	2	2	10	Y:\Proc_GCMS11\12-02-22\120219.D
8	5	5	10	Y:\Proc_GCMS11\12-02-22\120220.D
9	10	10	10	Y:\Proc_GCMS11\12-02-22\120221.D
10	20	20	10	Y:\Proc_GCMS11\12-02-22\120222.D
11	50	50	10	Y:\Proc_GCMS11\12-02-22\120223.D
12	100	100	10	Y:\Proc_GCMS11\12-02-22\120224.D
13	150	150	10	Y:\Proc_GCMS11\12-02-22\120225.D
14	200	200	10	Y:\Proc_GCMS11\12-02-22\120226.D

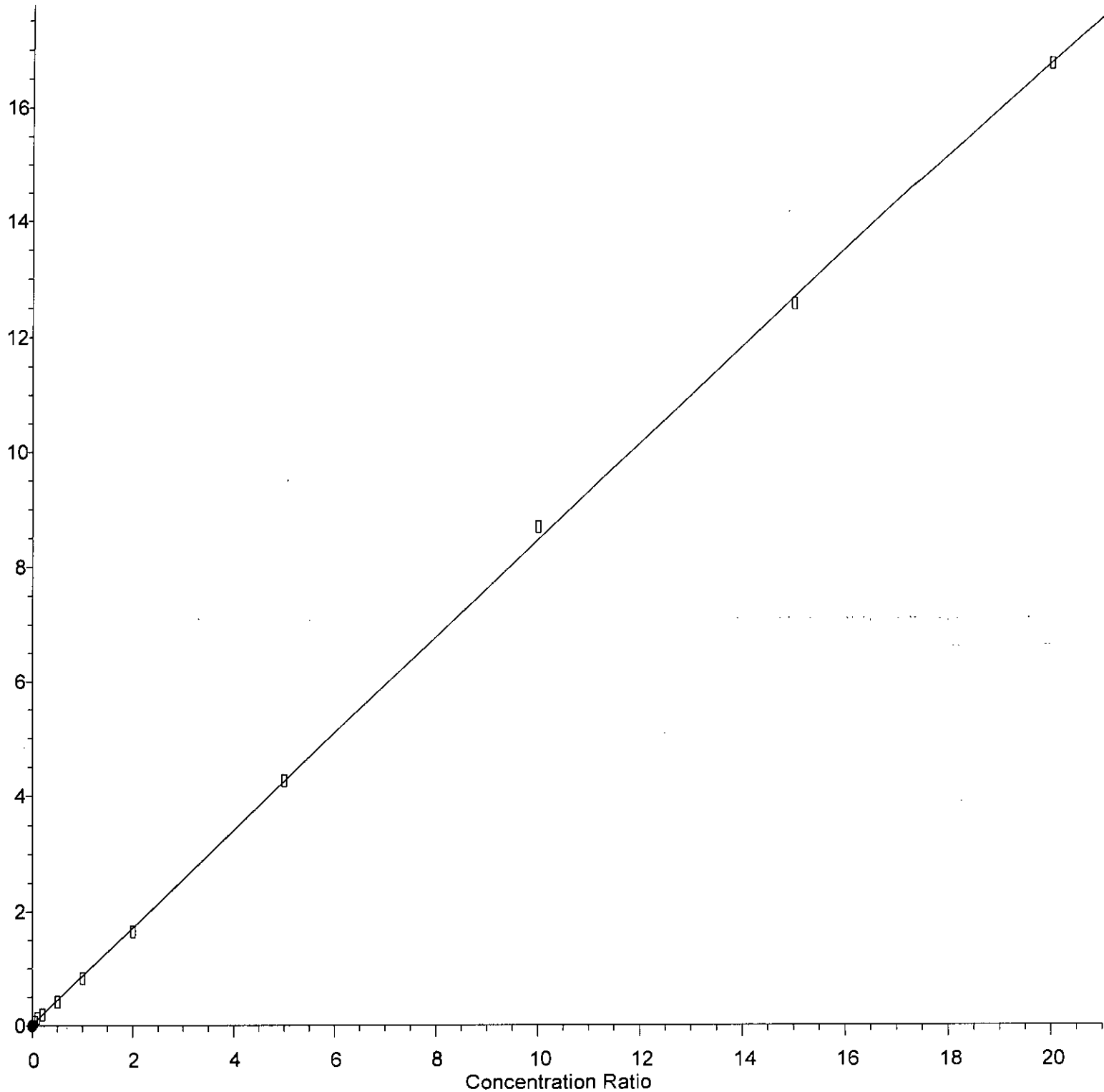
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3	0.1	Dec 05 11:01 2022	Dec 05 10:54 2022	02 Dec 2022 10:06 pm
4	0.2	Dec 05 11:01 2022	Dec 05 10:54 2022	02 Dec 2022 10:29 pm
5	0.5	Dec 05 11:01 2022	Dec 05 10:55 2022	02 Dec 2022 10:53 pm
6	1	Dec 05 11:01 2022	Dec 05 10:56 2022	02 Dec 2022 11:16 pm
7	2	Dec 05 11:01 2022	Dec 05 10:56 2022	02 Dec 2022 11:39 pm
8	5	Dec 05 11:01 2022	Dec 05 10:57 2022	03 Dec 2022 12:02 am
9	10	Dec 05 11:01 2022	Dec 05 10:58 2022	03 Dec 2022 12:25 am
10	20	Dec 05 11:01 2022	Dec 05 10:48 2022	03 Dec 2022 12:49 am
11	50	Dec 05 11:01 2022	Dec 05 10:48 2022	03 Dec 2022 01:12 am
12	100	Dec 05 11:01 2022	Dec 05 11:00 2022	03 Dec 2022 01:35 am
13	150	Dec 05 11:01 2022	Dec 05 10:49 2022	03 Dec 2022 01:58 am
14	200	Dec 05 11:01 2022	Dec 05 11:01 2022	03 Dec 2022 02:21 am

VB120222ms11.M Mon Dec 05 13:50:13 2022



Chloromethane

Response Ratio



Response = 8.461e-001 \* Amt + 2.105e-002

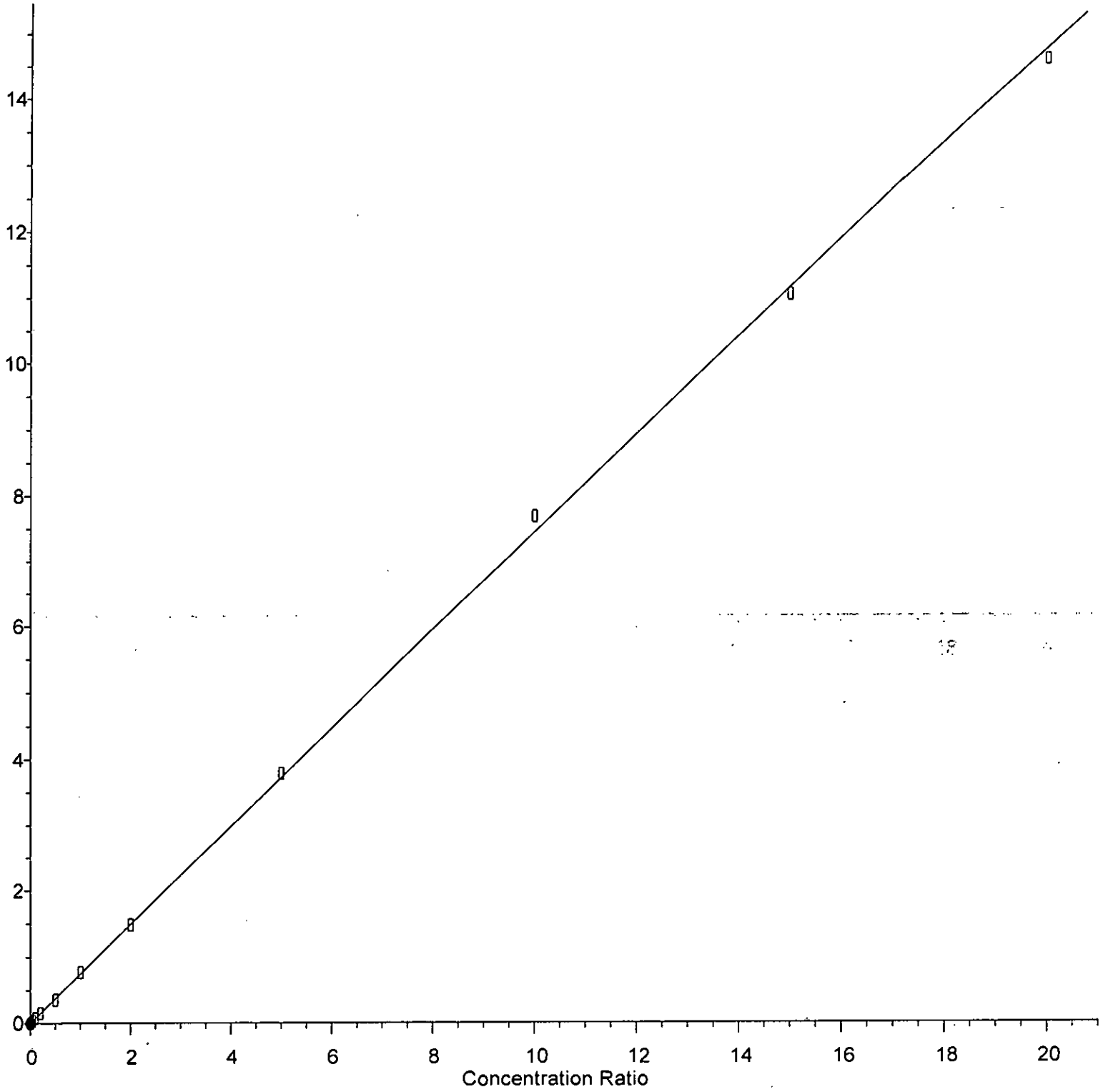
Coef of Det (r^2) = 0.999790 Curve Fit: Linear

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Vinyl chloride

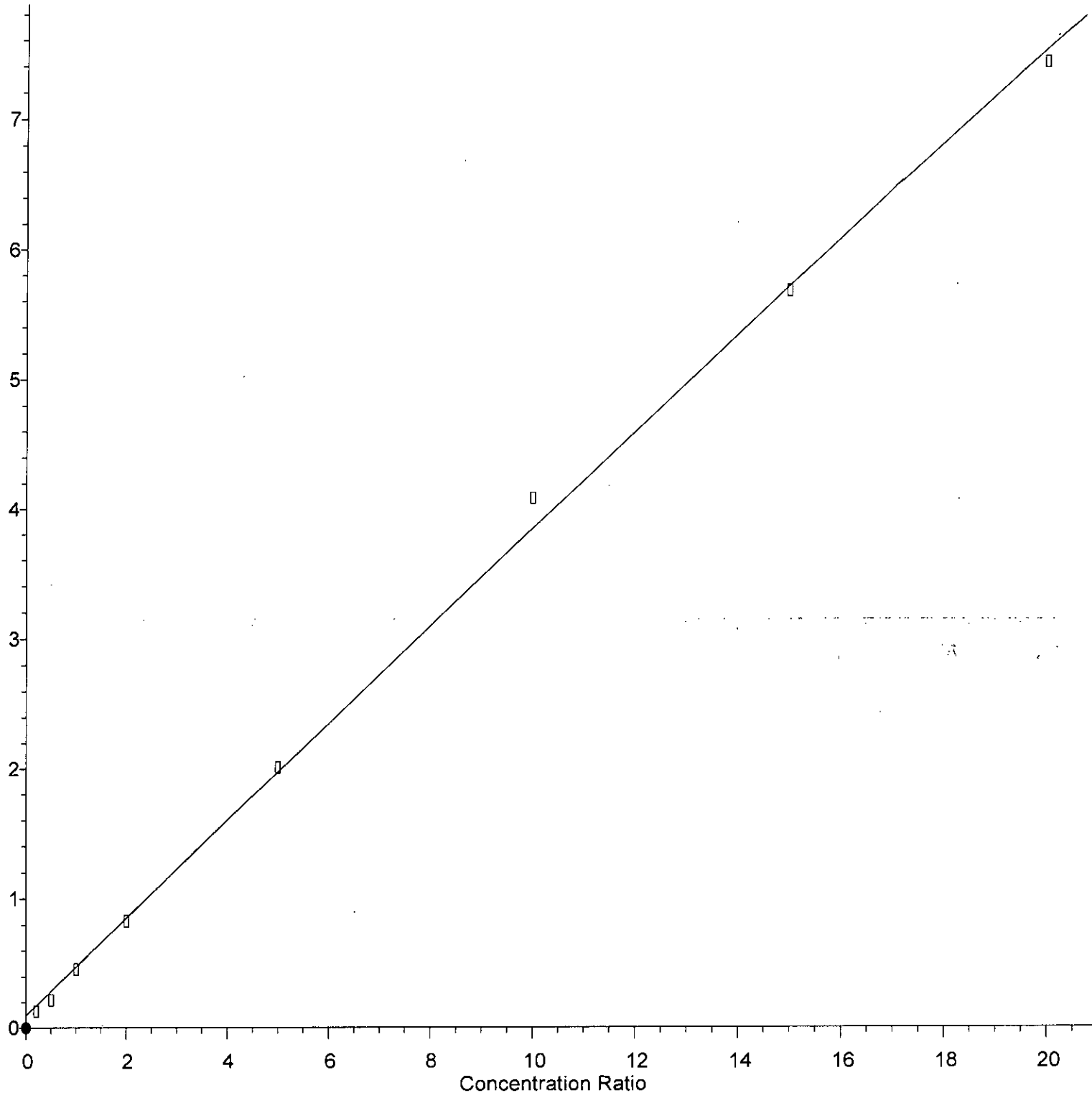
Response Ratio



Response = 7.458e-001 \* Amt + 2.202e-003  
Coef of Det (r^2) = 0.999625 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Bromomethane

Response Ratio



Response = 3.753e-001 \* Amt + 9.755e-002

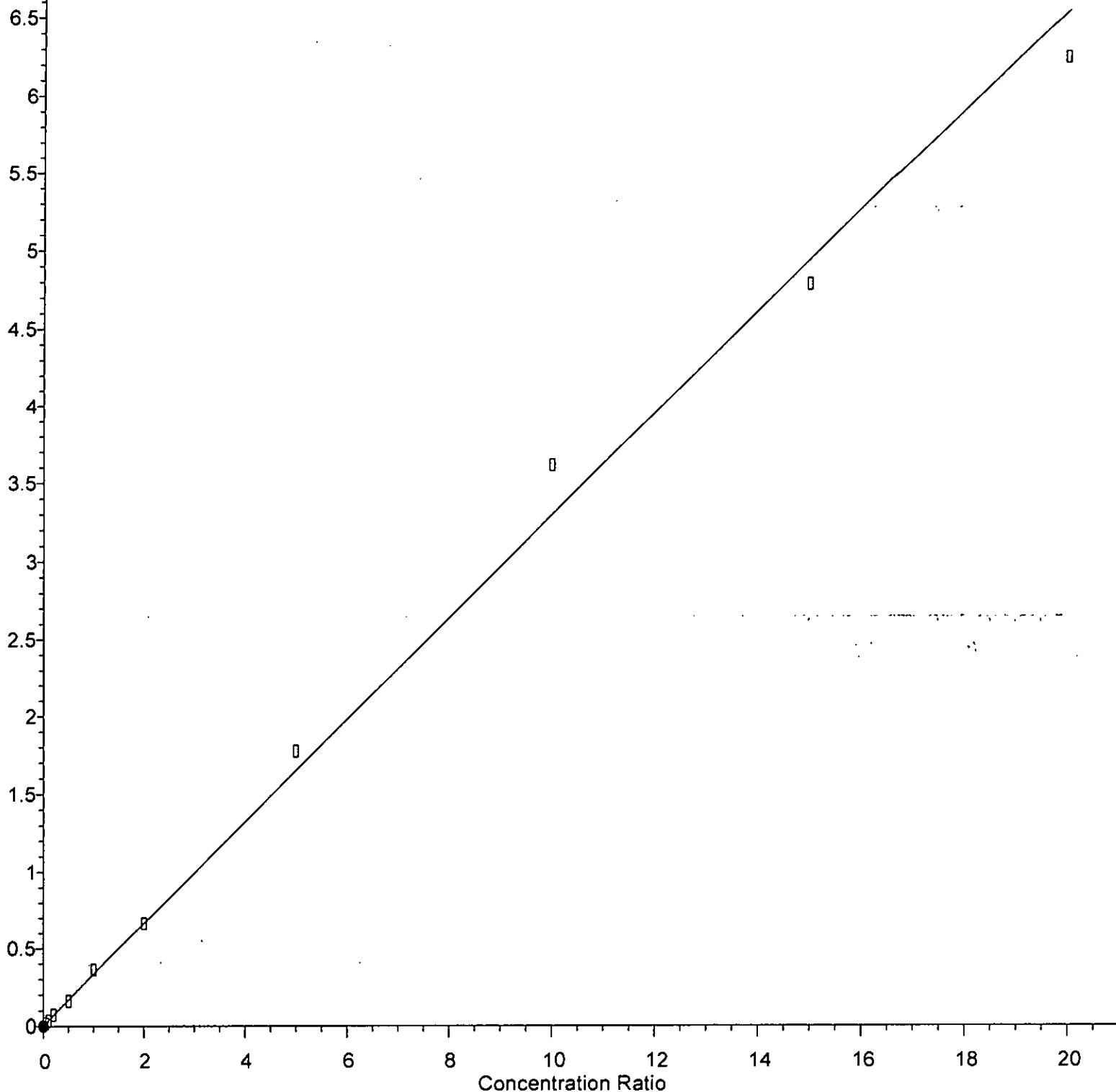
Coef of Det (r<sup>2</sup>) = 0.998614 Curve Fit: Linear

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

# Chloroethane

Response Ratio



$$\text{Response} = 3.301\text{e-}001 * \text{Amt} + 2.781\text{e-}003$$

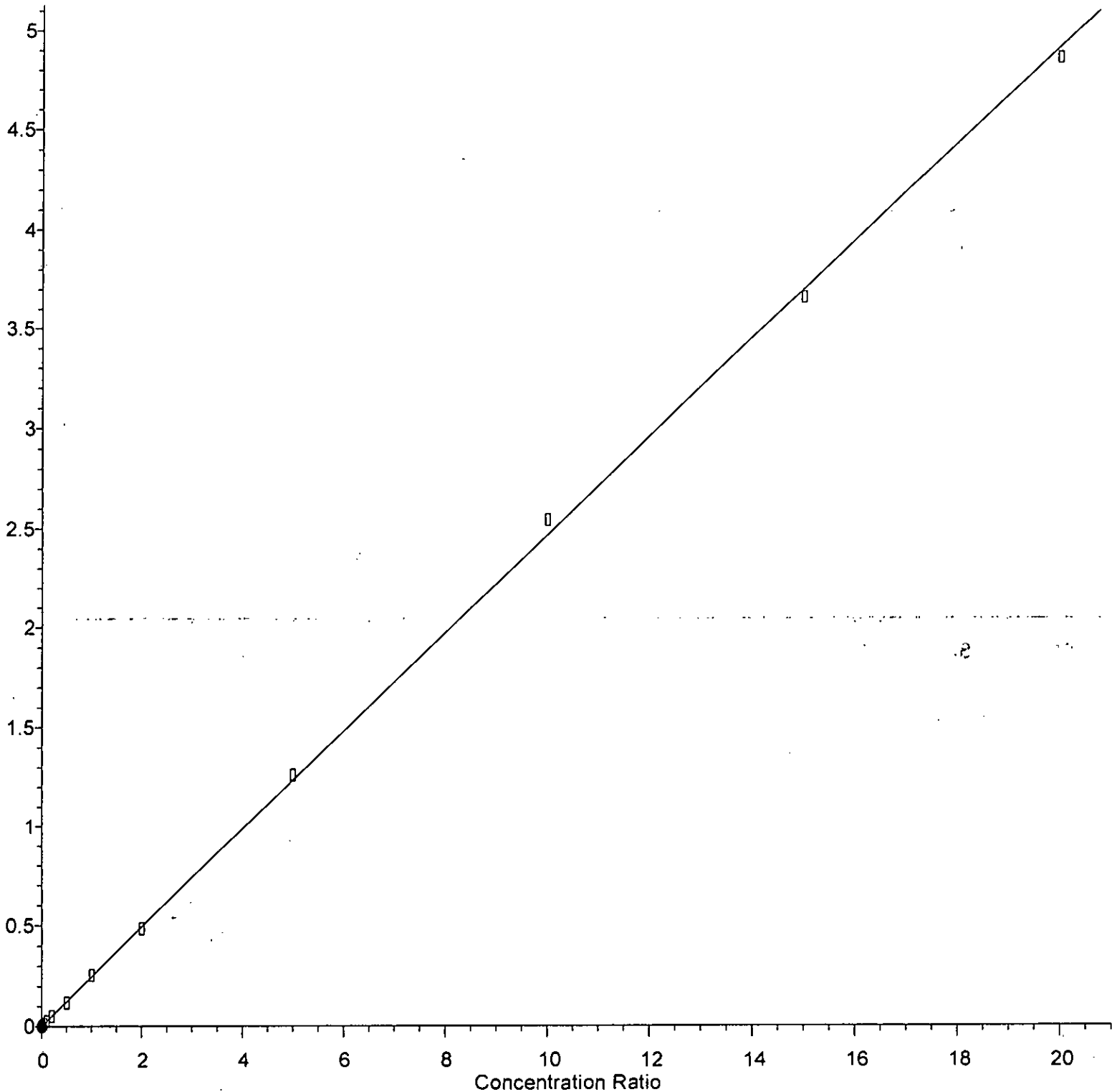
Coef of Det ( $r^2$ ) = 0.996339 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,1-Dichloroethene

Response Ratio



Response = 2.469e-001 \* Amt + 4.623e-004

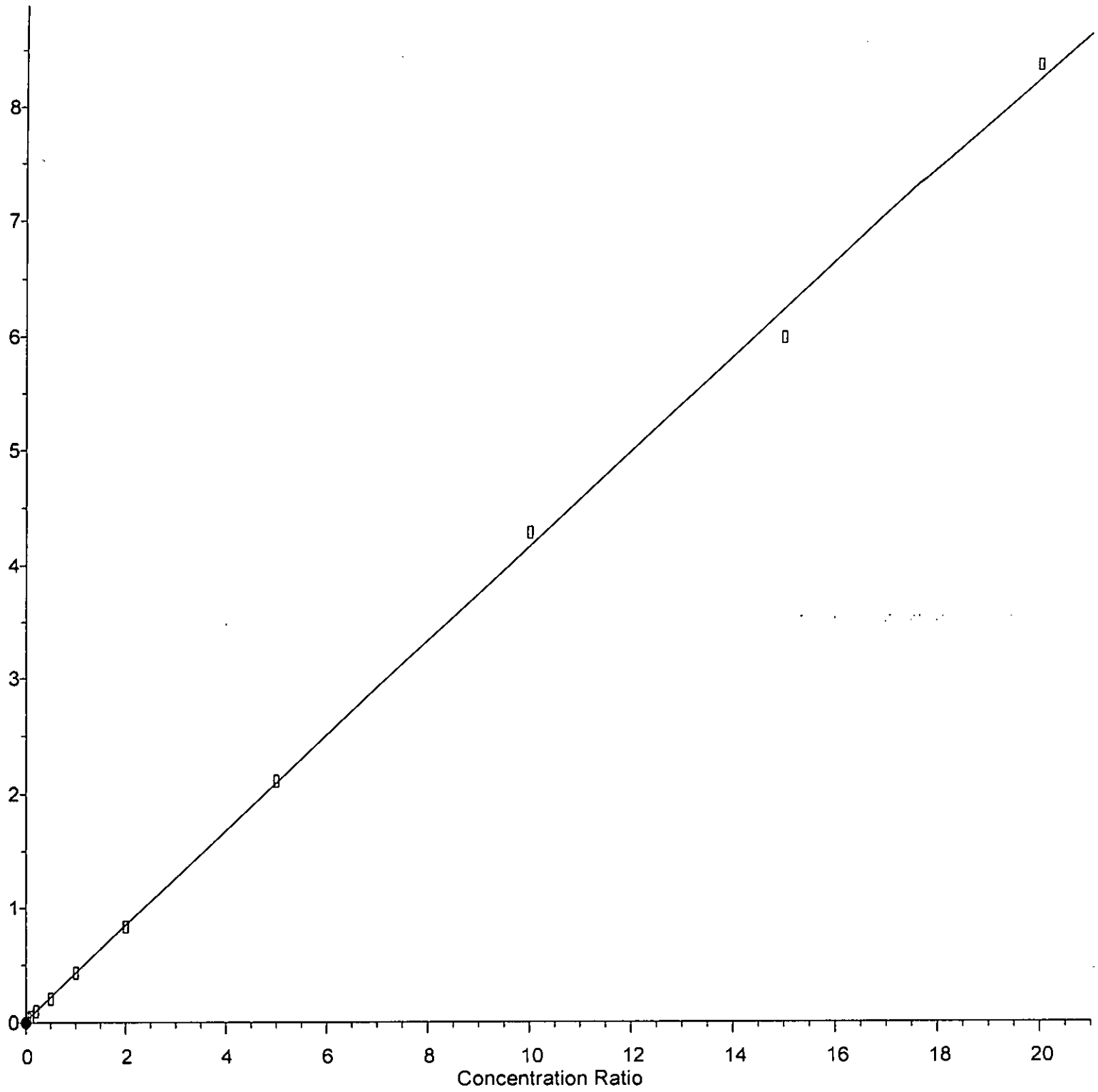
Coef of Det (r^2) = 0.999641 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Hexane

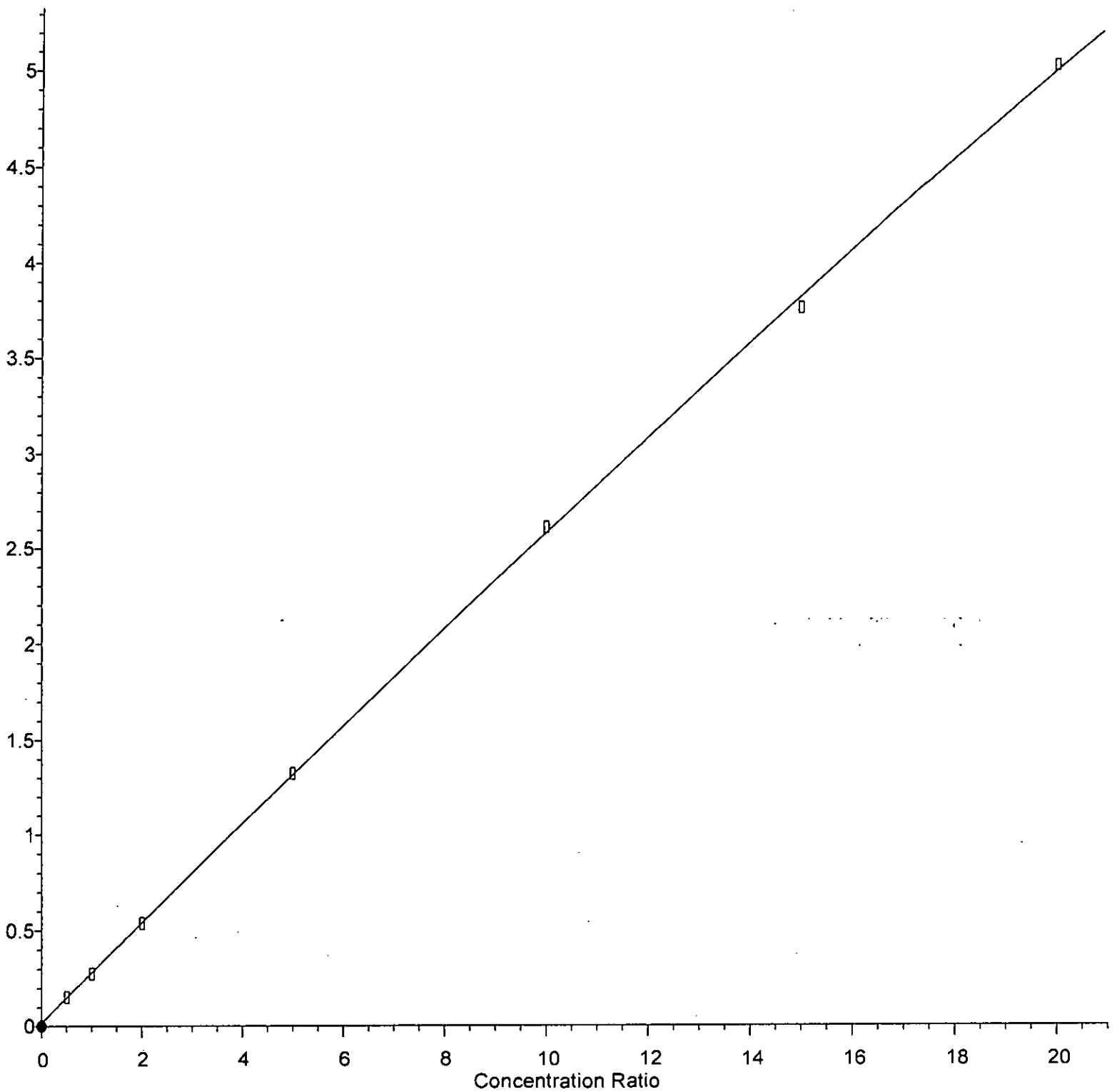
Response Ratio



Response = 4.161e-001 \* Amt + 1.350e-002  
Coef of Det (r^2) = 0.999197 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Methylene chloride

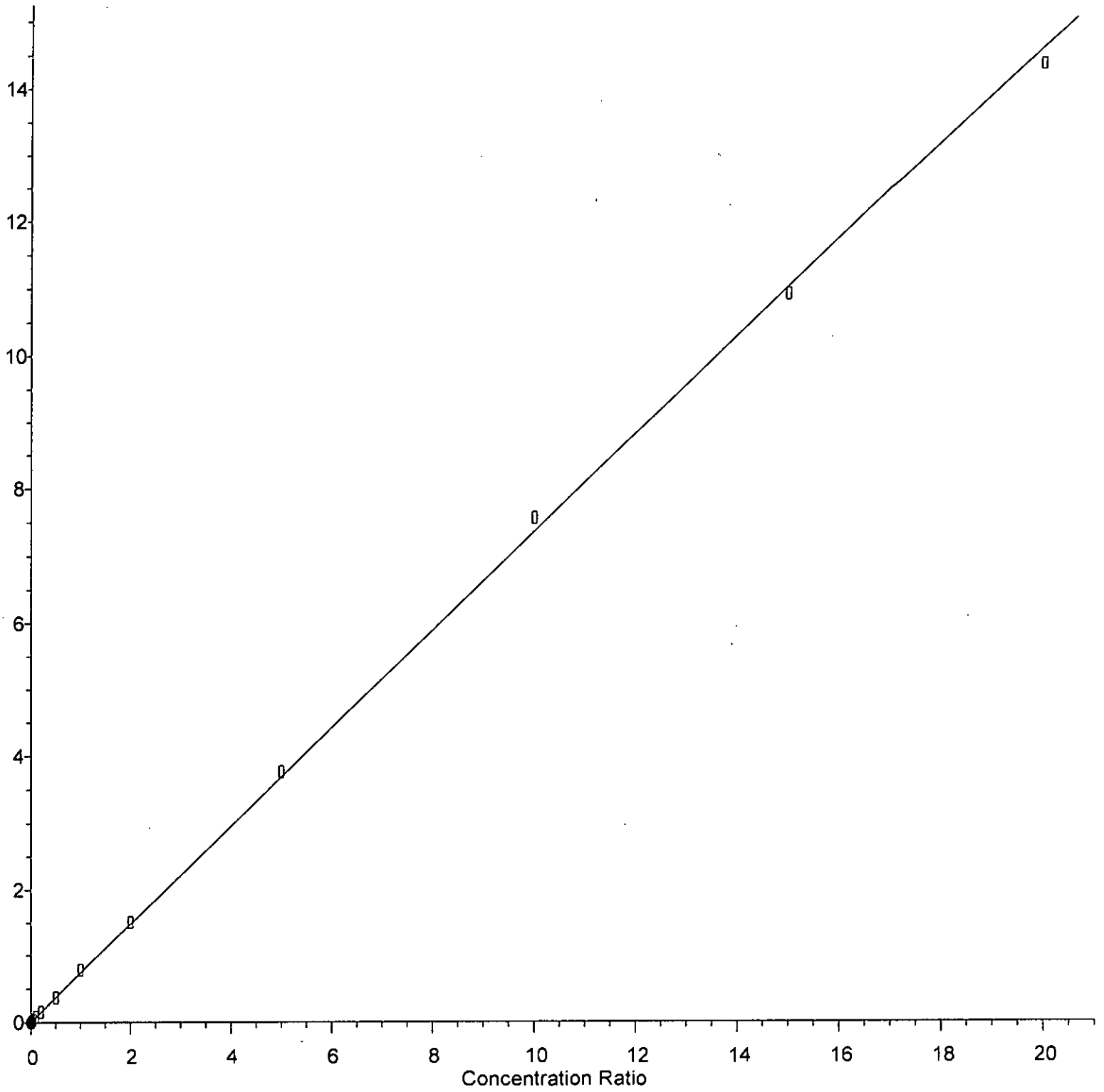
Response Ratio



R = -5.451e-004 A\*A + 2.624e-001 A + 1.955e-002  
Coef of Det (r^2) = 0.999837 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Methyl t-butyl ether (MTBE)

Response Ratio

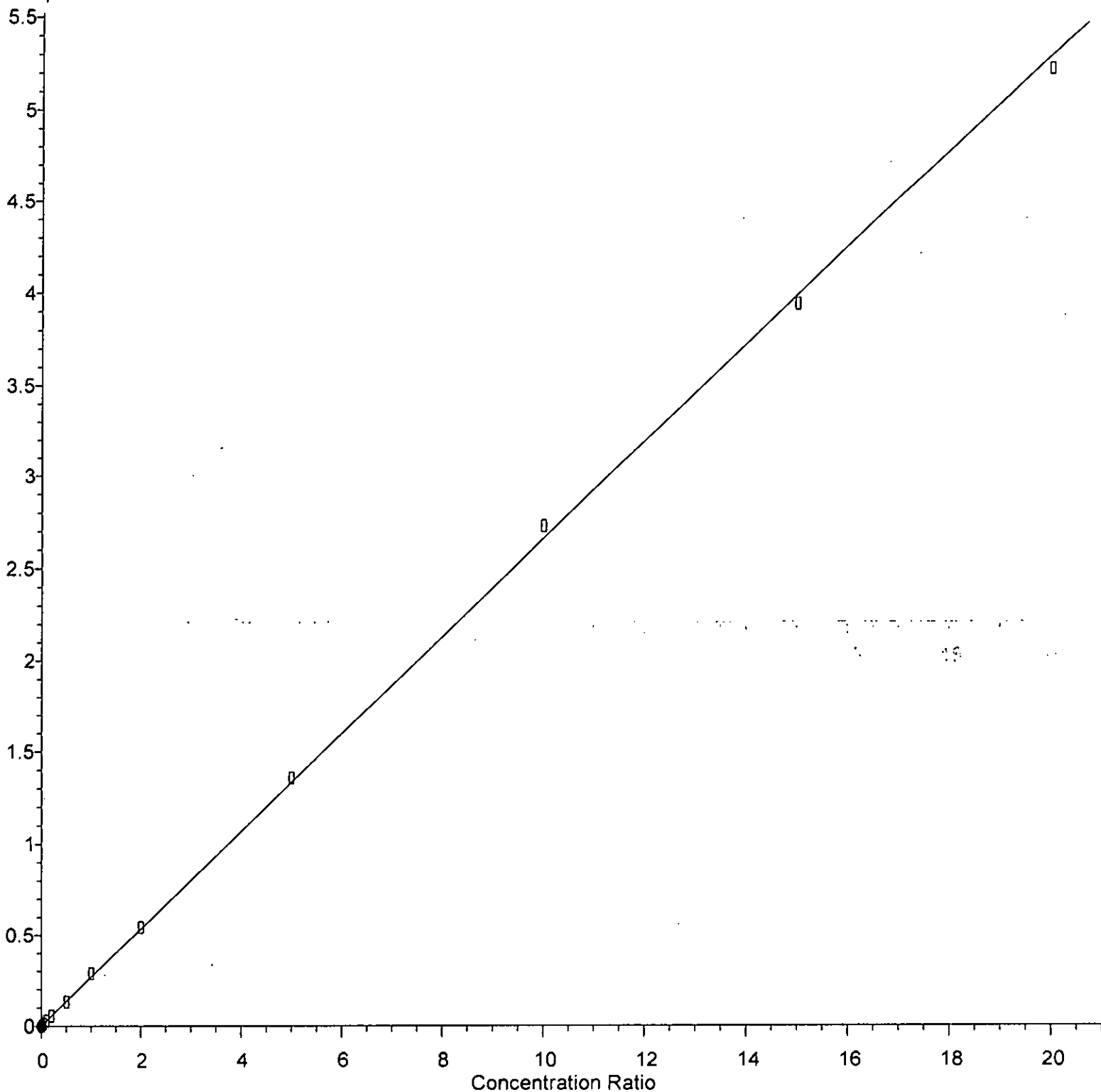


Response =  $7.386e-001 * Amt + 1.381e-003$   
Coef of Det ( $r^2$ ) = 0.999577 Curve Fit:  $wlr(1/a)$   
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022



trans-1,2-Dichloroethene

Response Ratio



Response = 2.664e-001 \* Amt + 9.075e-004

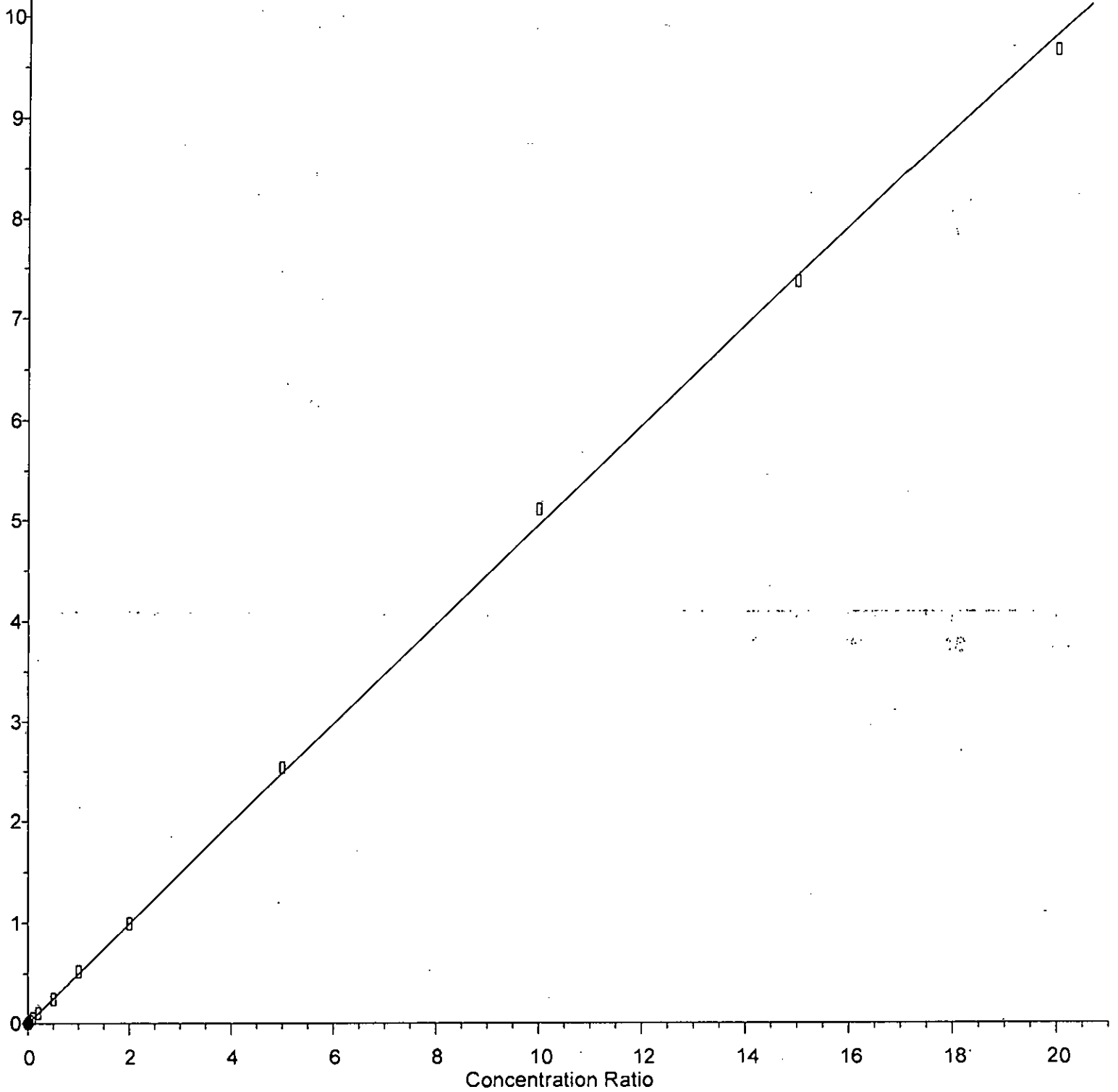
Coef of Det (r^2) = 0.999586 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,1-Dichloroethane

Response Ratio



Response =  $4.968e-001 \cdot \text{Amt} + 9.464e-004$

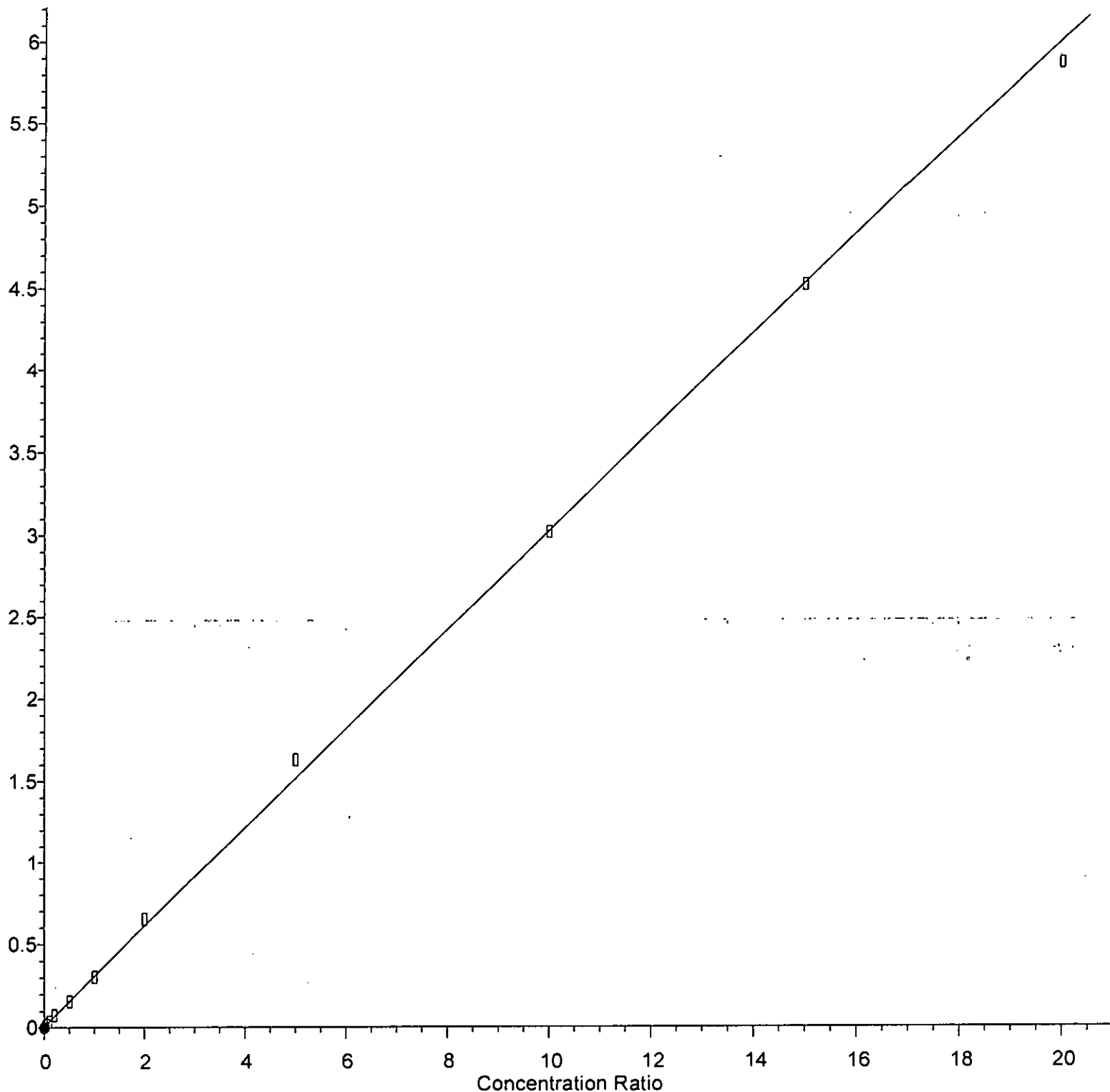
Coef of Det ( $r^2$ ) = 0.999594 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

2,2-Dichloropropane

Response Ratio



Response =  $3.024e-001 * Amt + 5.501e-003$

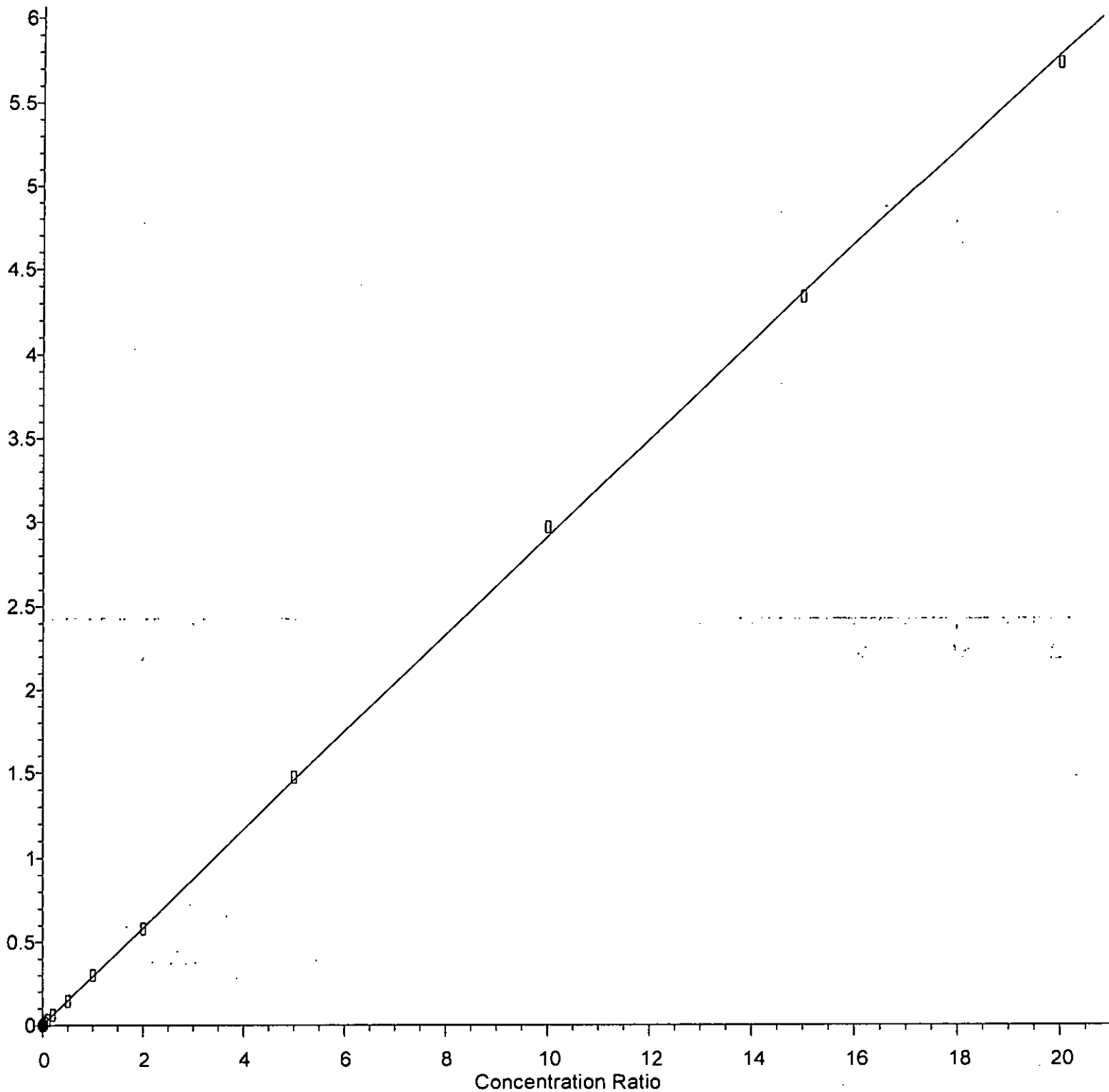
Coef of Det ( $r^2$ ) = 0.998964 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

cis-1,2-Dichloroethene

Response Ratio



Response =  $2.916e-001 * Amt + 7.083e-004$

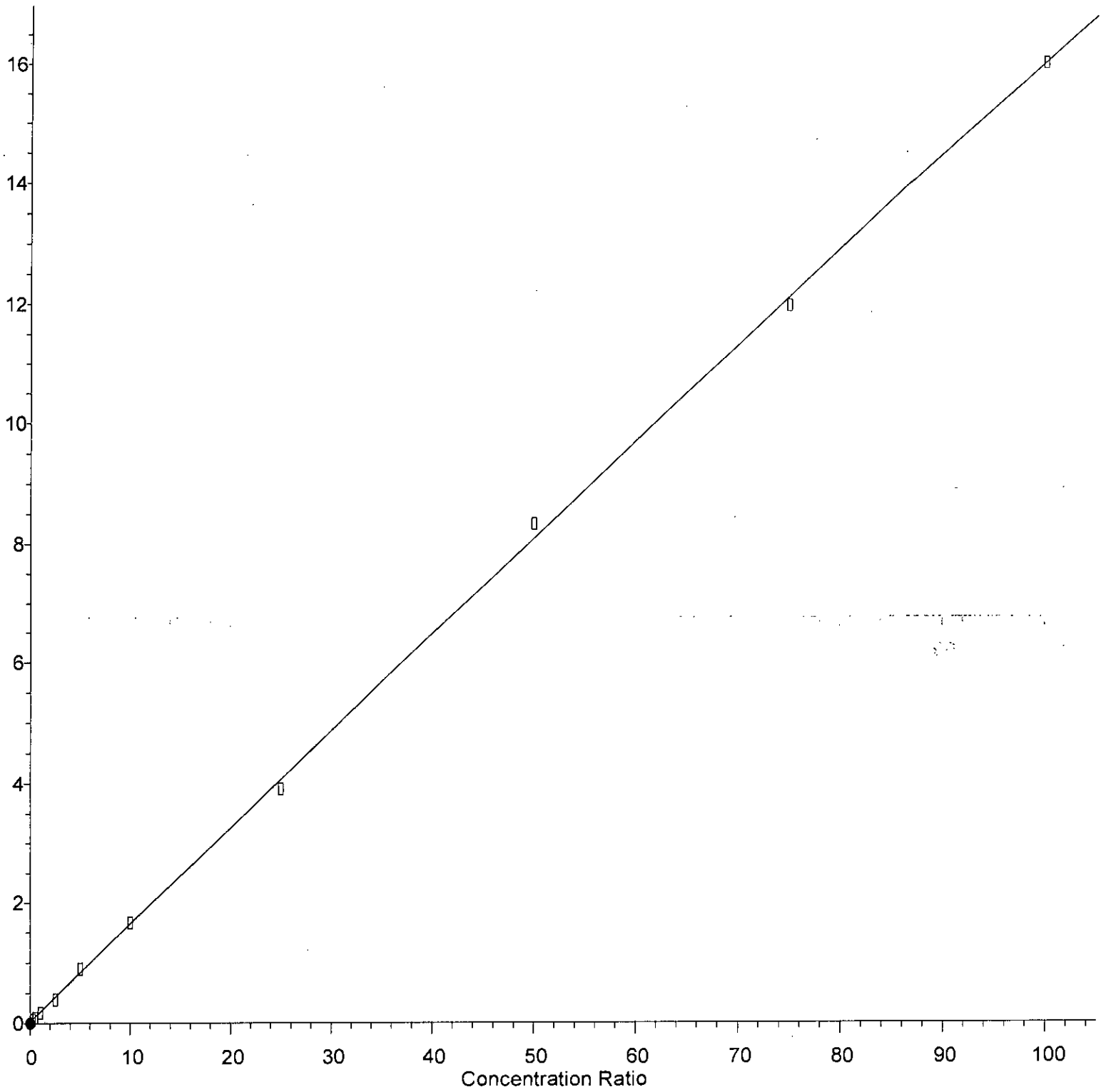
Coef of Det ( $r^2$ ) = 0.999836 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

2-Butanone (MEK)

Response Ratio



Response =  $1.614e-001 \cdot \text{Amt} + 2.621e-002$

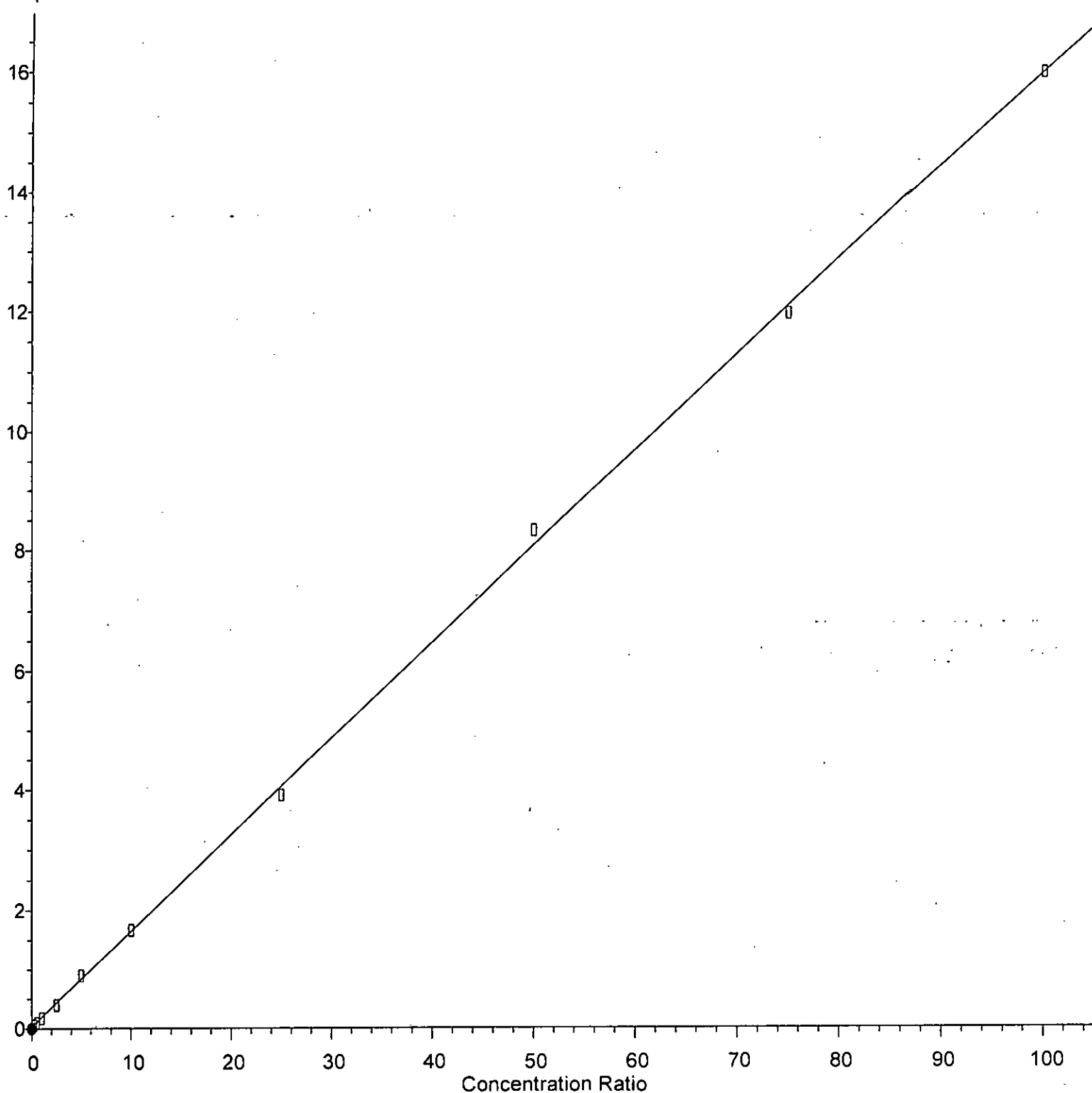
Coef of Det ( $r^2$ ) = 0.999649 Curve Fit: Linear

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

2-Butanone (MEK)

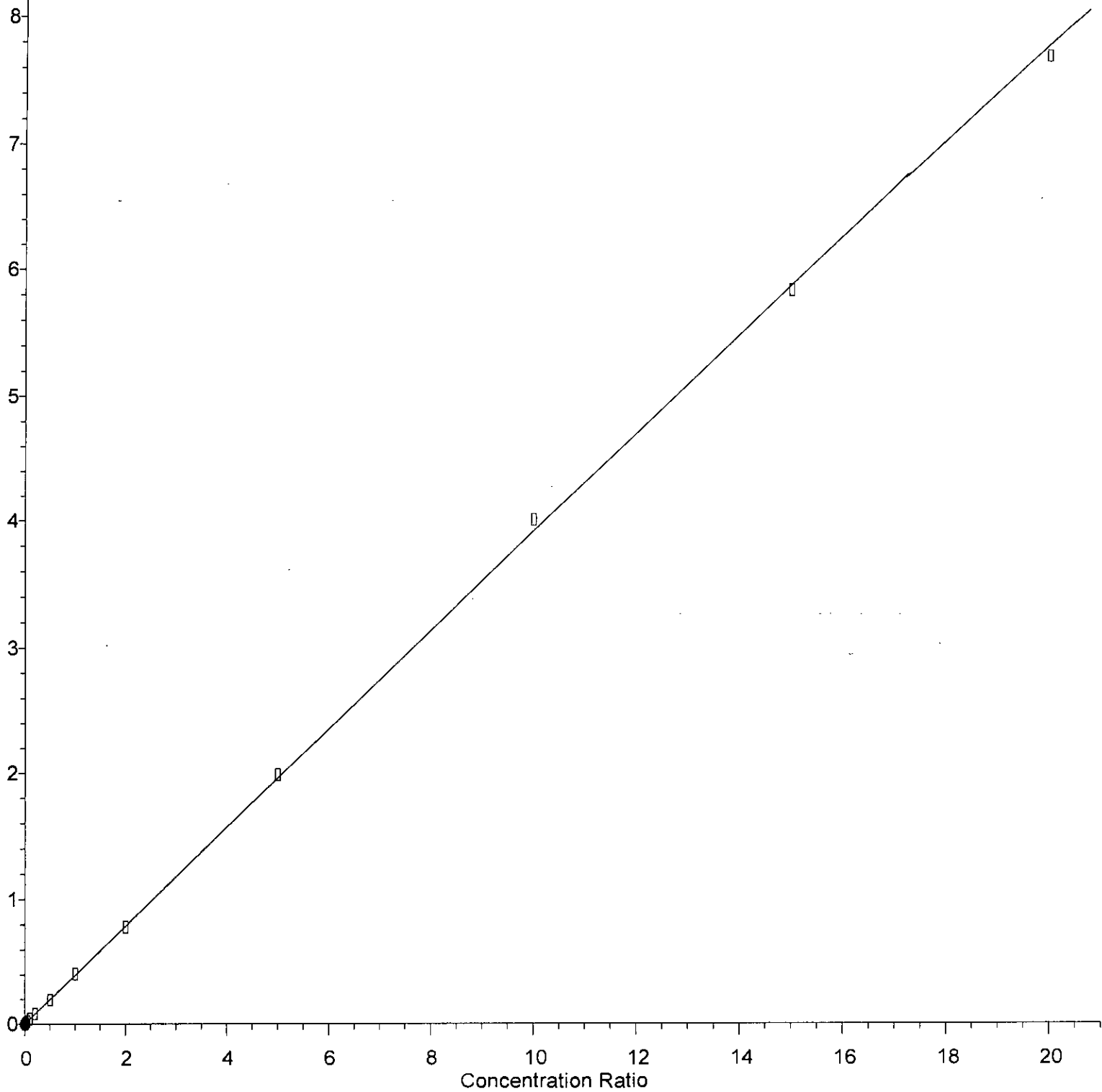
Response Ratio



Response = 1.614e-001 \* Amt + 2.621e-002  
Coef of Det (r^2) = 0.999649 Curve Fit: Linear  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,2-Dichloroethane (EDC)

Response Ratio



Response =  $3.922e-001 * Amt + 1.631e-003$

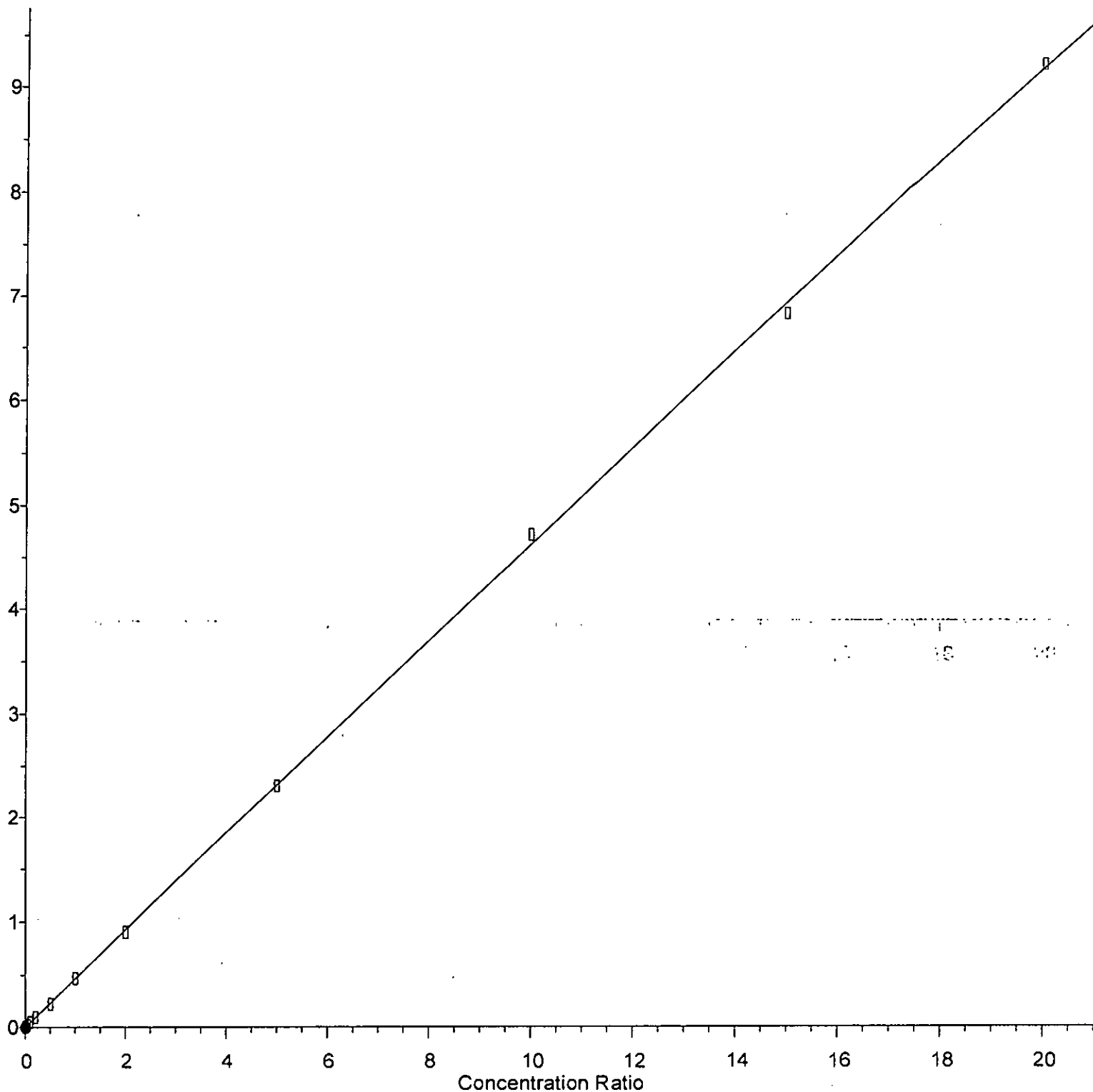
Coef of Det ( $r^2$ ) = 0.999773 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,1,1-Trichloroethane

Response Ratio



Response =  $4.629e-001 \cdot \text{Amt} + 5.913e-004$

Coef of Det ( $r^2$ ) = 0.999794 Curve Fit: wlr(1/a)

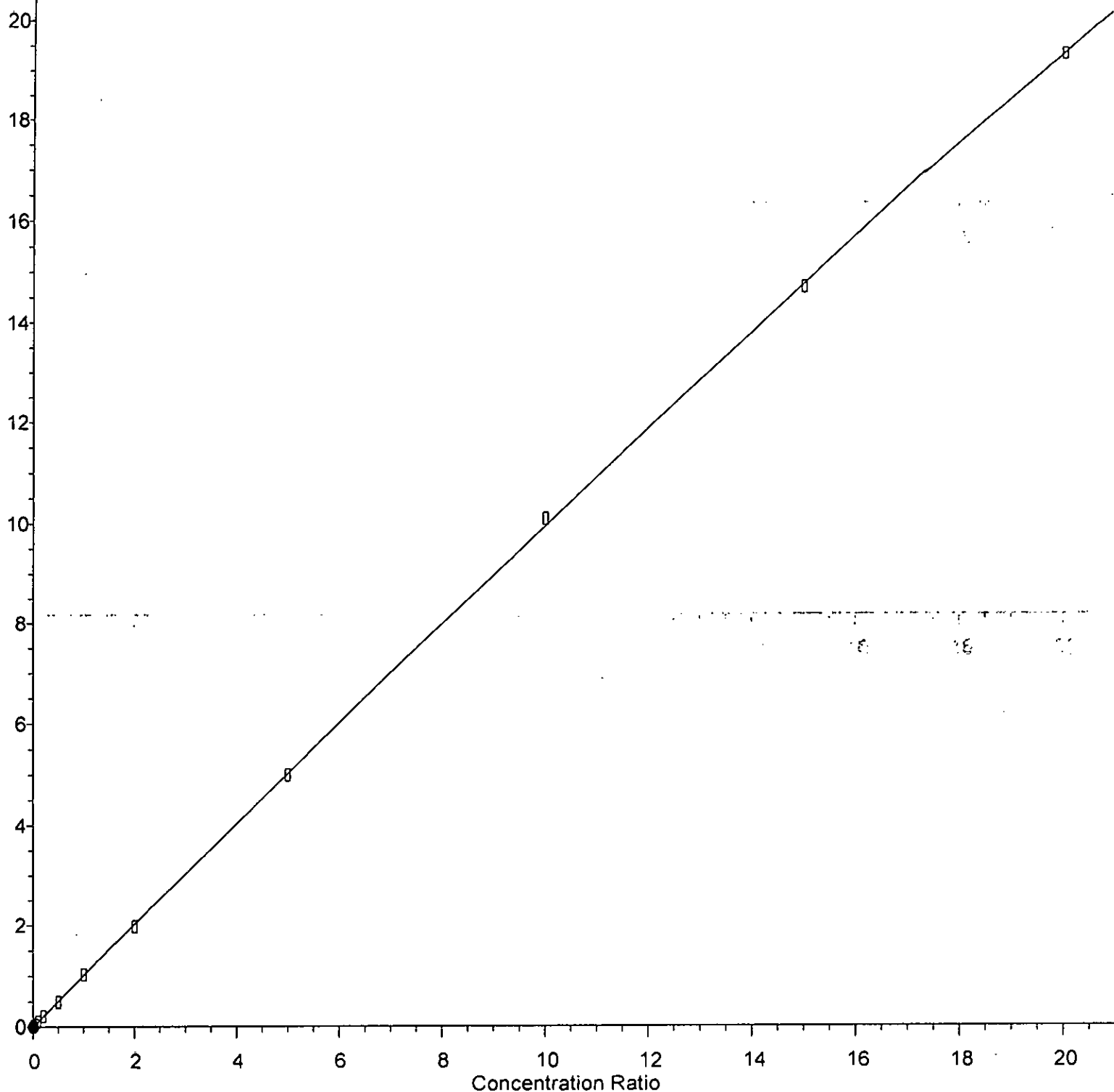
Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022



# Benzene

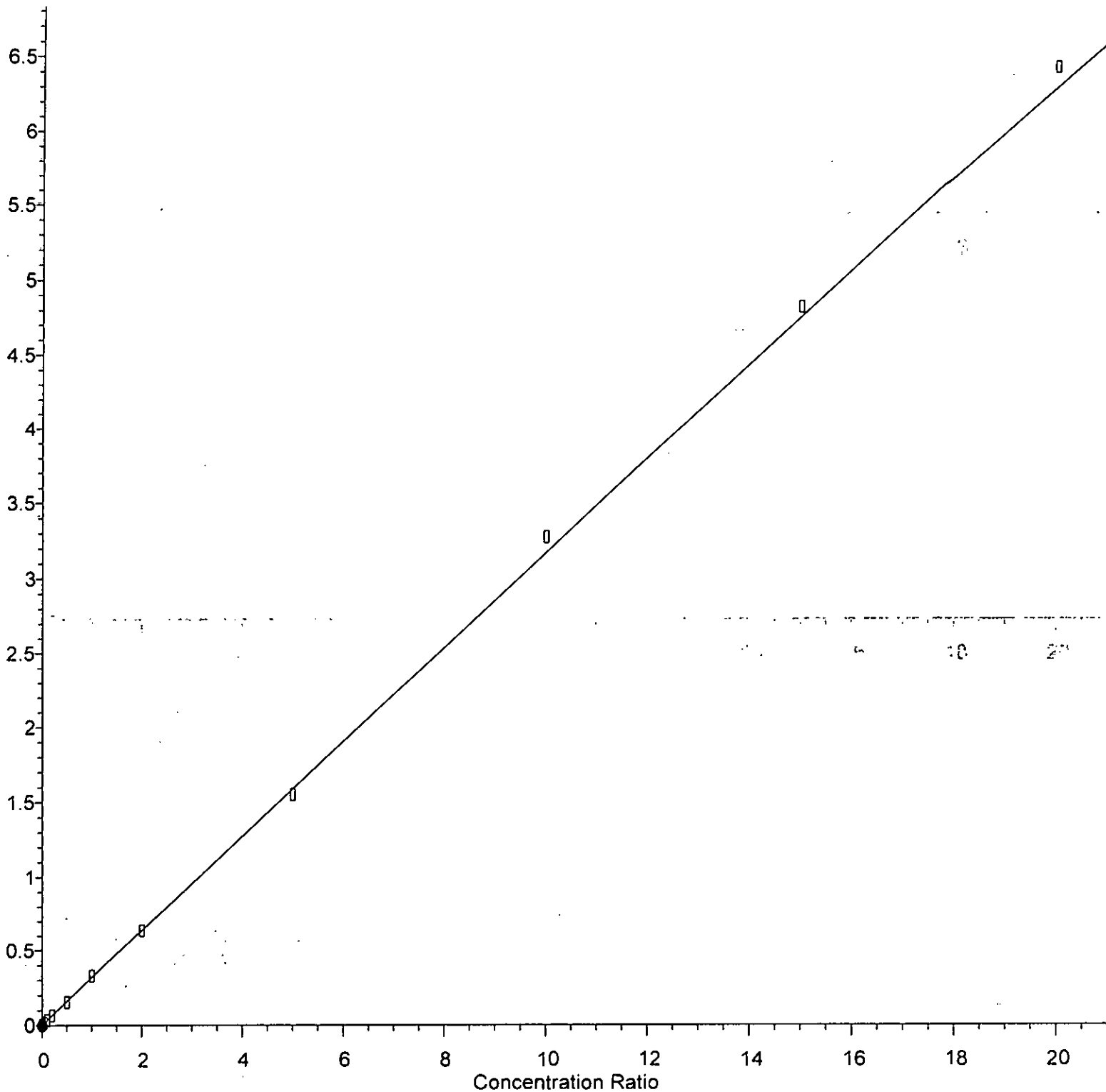
Response Ratio



$R = -1.837e-003 A^2 + 1.015e+000 A + 1.815e-003$   
Coef of Det ( $r^2$ ) = 0.999902 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Trichloroethene

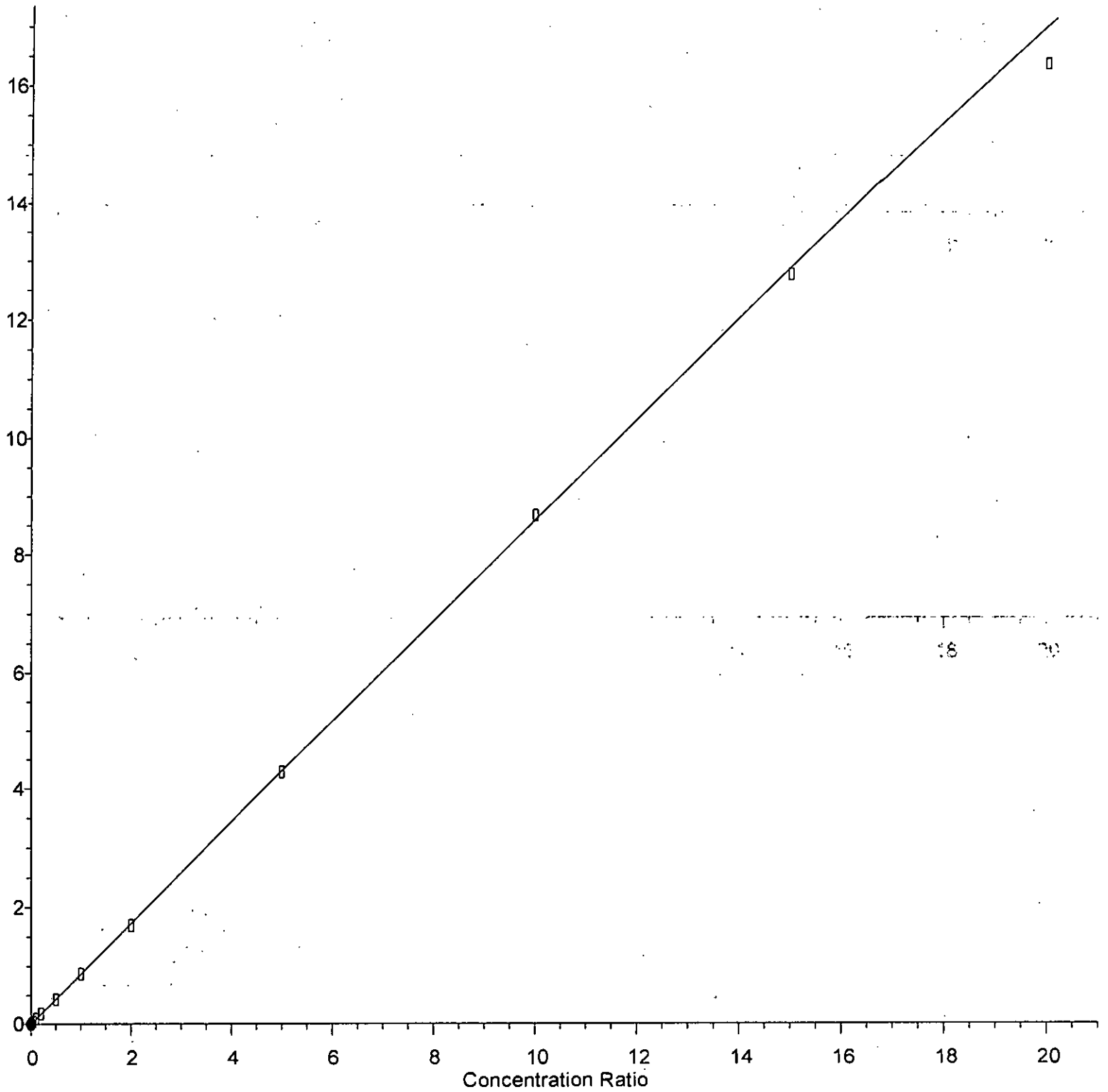
Response Ratio



Response = 3.178e-001 \* Amt + 9.519e-004  
Coef of Det (r^2) = 0.998821 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Toluene

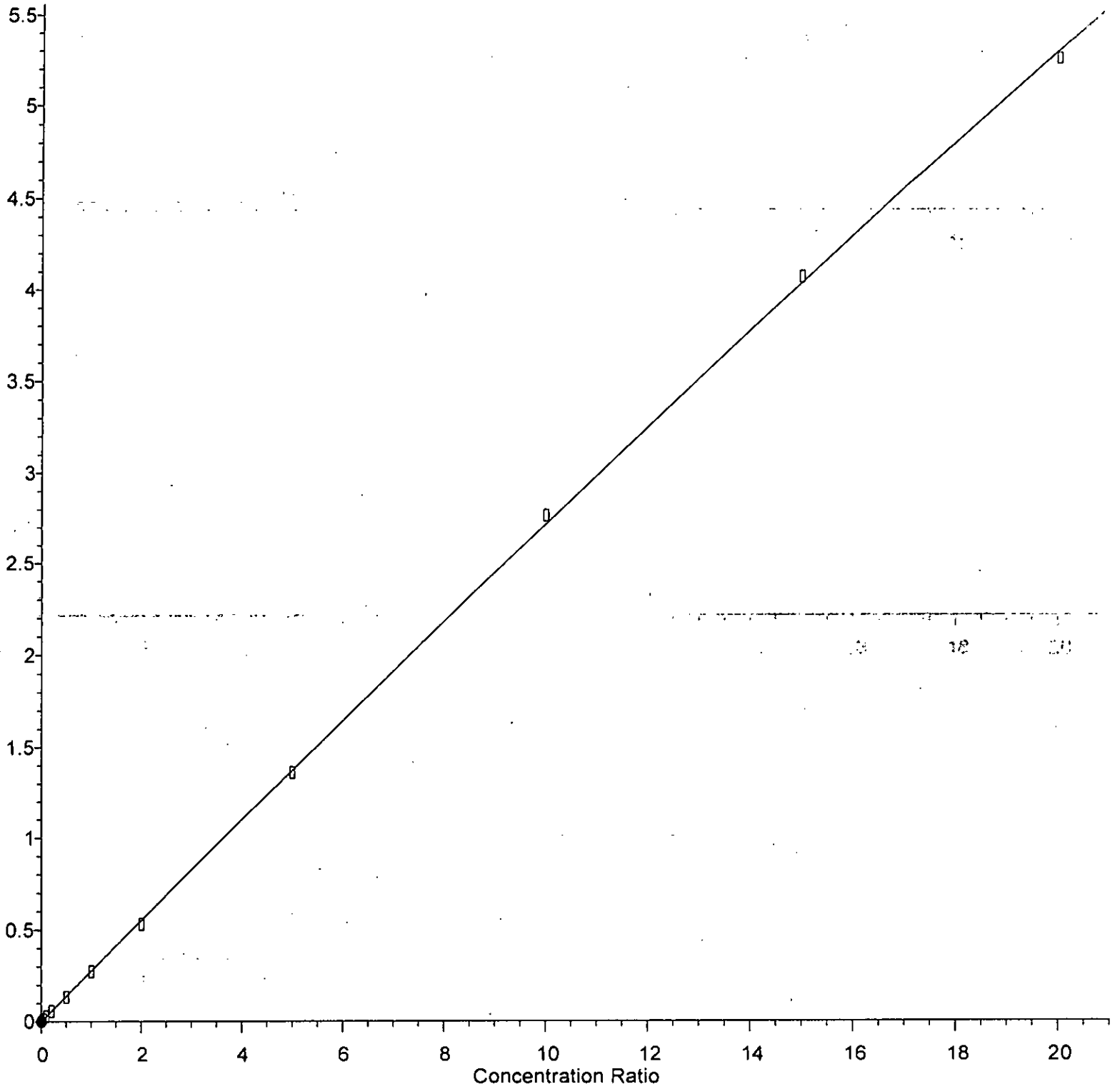
Response Ratio



Response = 8.608e-001 \* Amt + 2.362e-003  
Coef of Det (r^2) = 0.999151 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,1,2-Trichloroethane

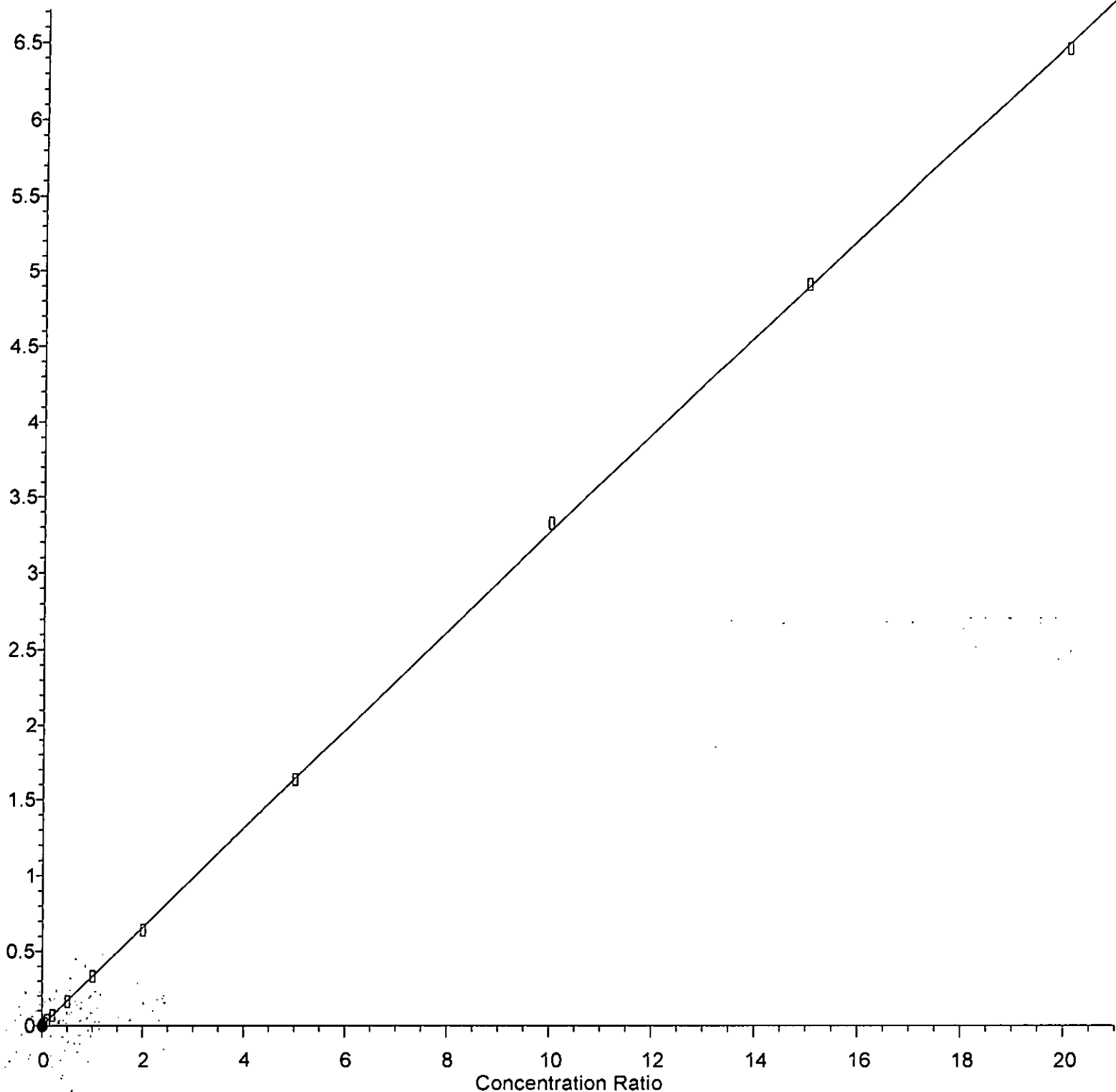
Response Ratio



$R = -5.032e-004 A^2 + 2.771e-001 A + 6.256e-004$   
Coef of Det ( $r^2$ ) = 0.999813 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Tetrachloroethene

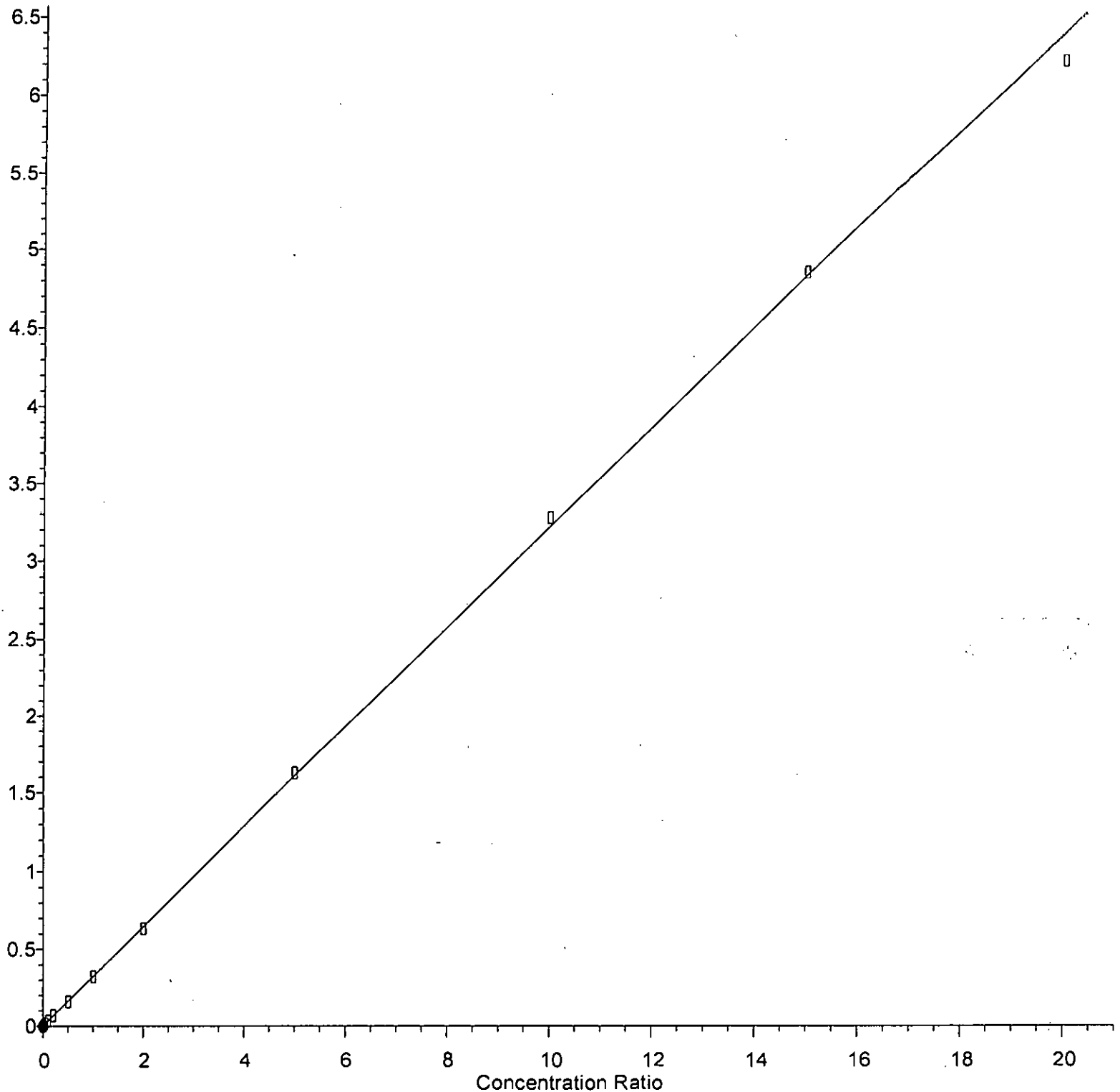
Response Ratio



$R = -4.275e-004 A^2 + 3.295e-001 A + 1.735e-003$   
Coef of Det ( $r^2$ ) = 0.999891 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,2-Dibromoethane (EDB)

Response Ratio



Response =  $3.219e-001 \cdot \text{Amt} + 1.083e-003$

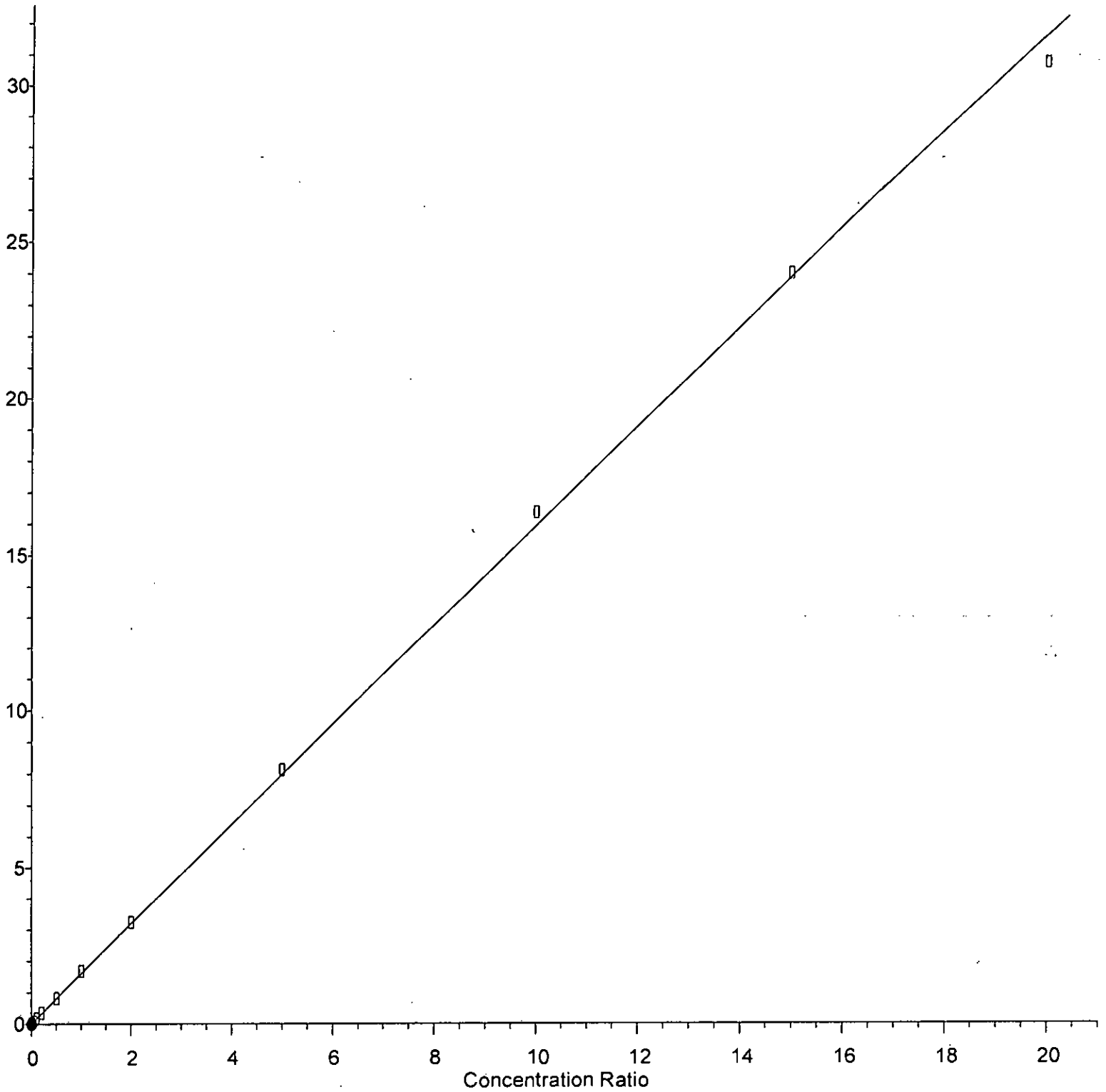
Coef of Det ( $r^2$ ) = 0.999031 Curve Fit: wlr(1/a^2)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

# Ethylbenzene

Response Ratio



$$\text{Response} = 1.596e+000 * \text{Amt} + 5.460e-003$$

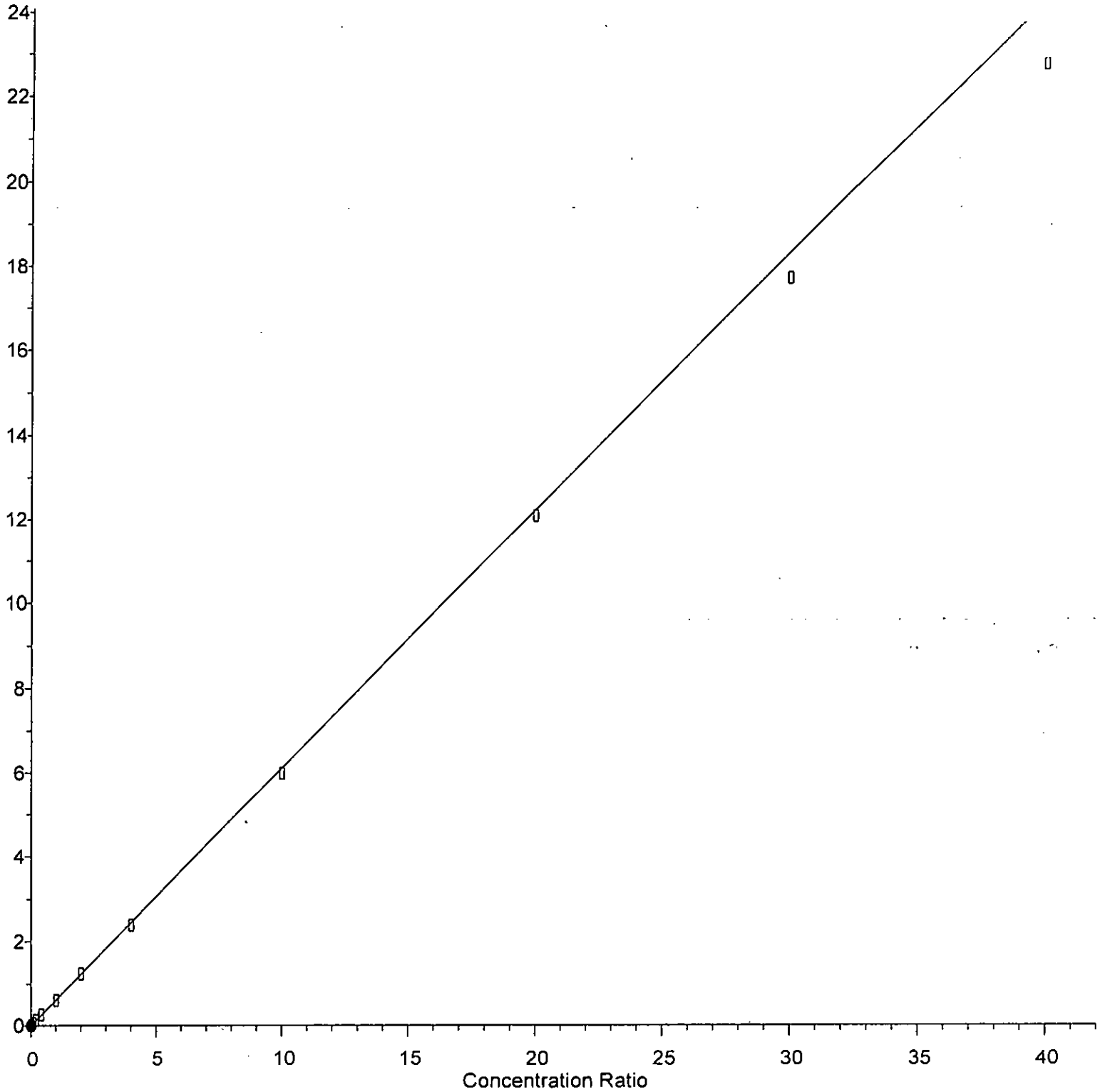
Coef of Det ( $r^2$ ) = 0.999407 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

m,p-Xylene

Response Ratio



Response =  $6.115e-001 \cdot \text{Amt} + 3.543e-003$

Coef of Det ( $r^2$ ) = 0.998172 Curve Fit: wlr(1/a^2)

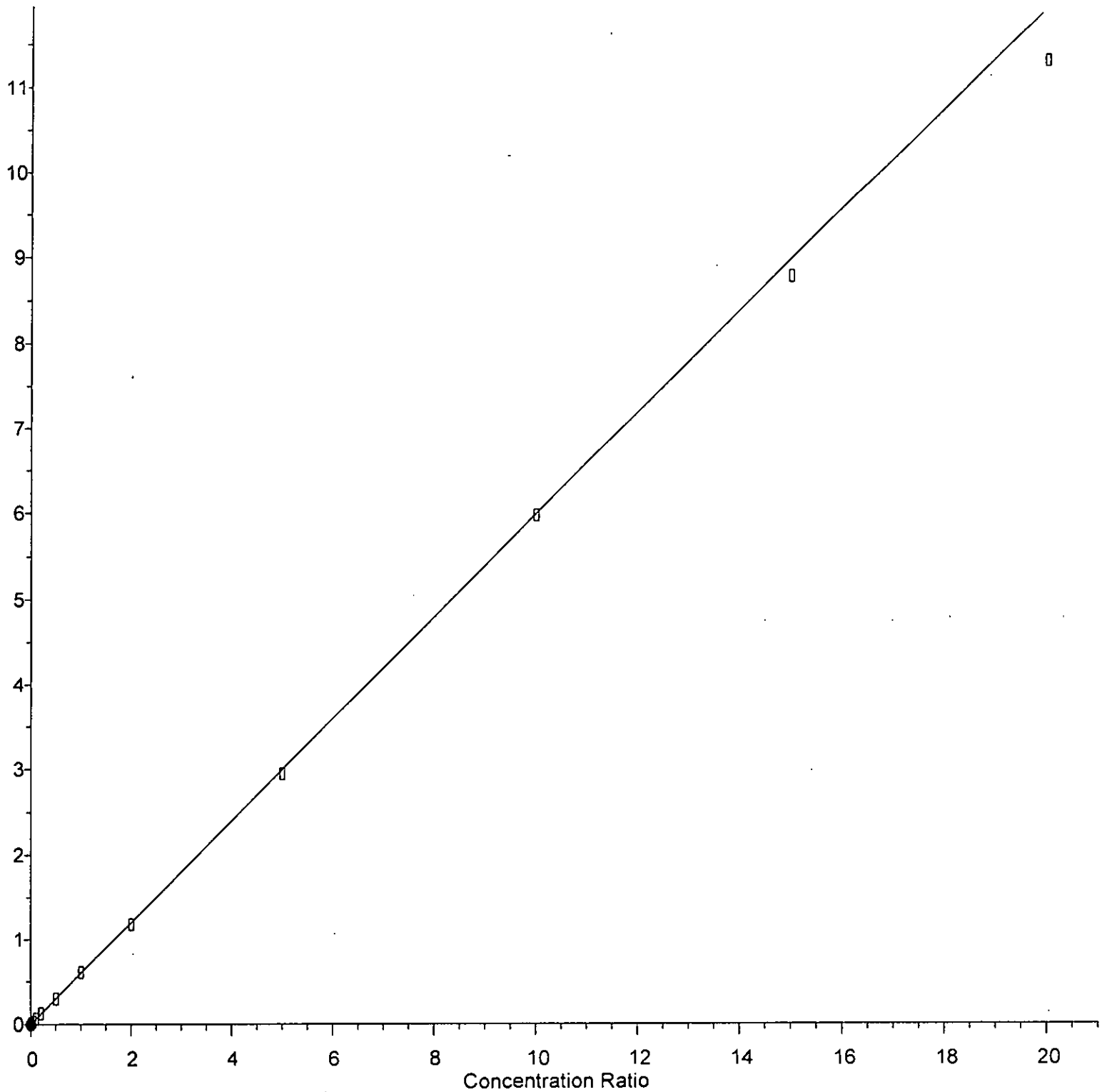
Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022



o-Xylene

Response Ratio



Response = 6.004e-001 \* Amt + 1.549e-003

Coef of Det (r^2) = 0.998489 Curve Fit: wlr(1/a^2)

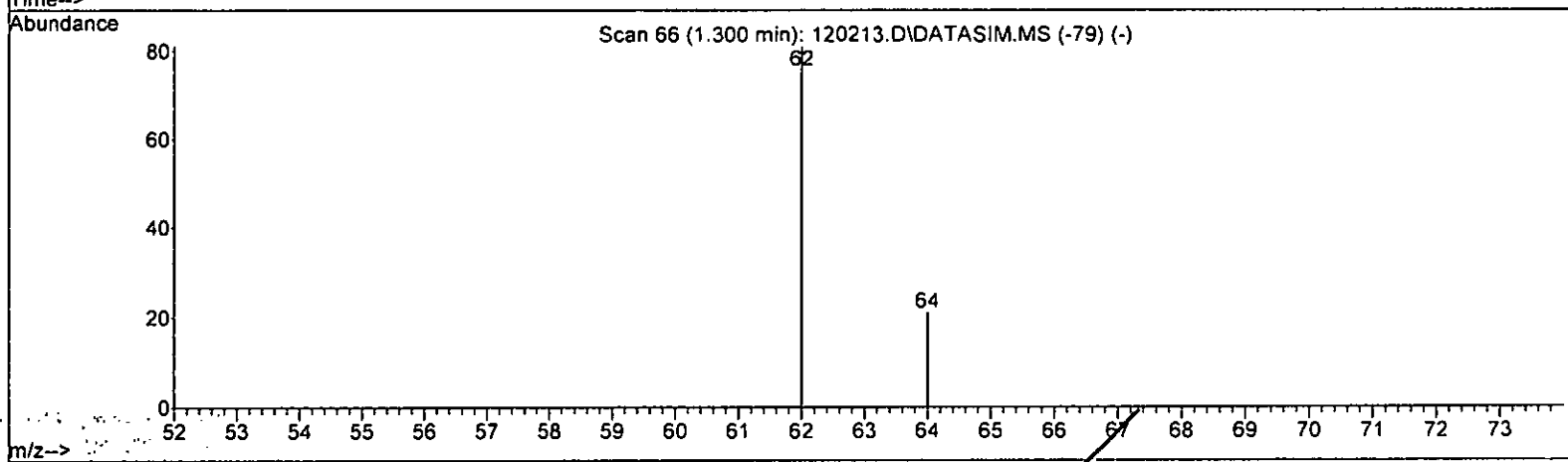
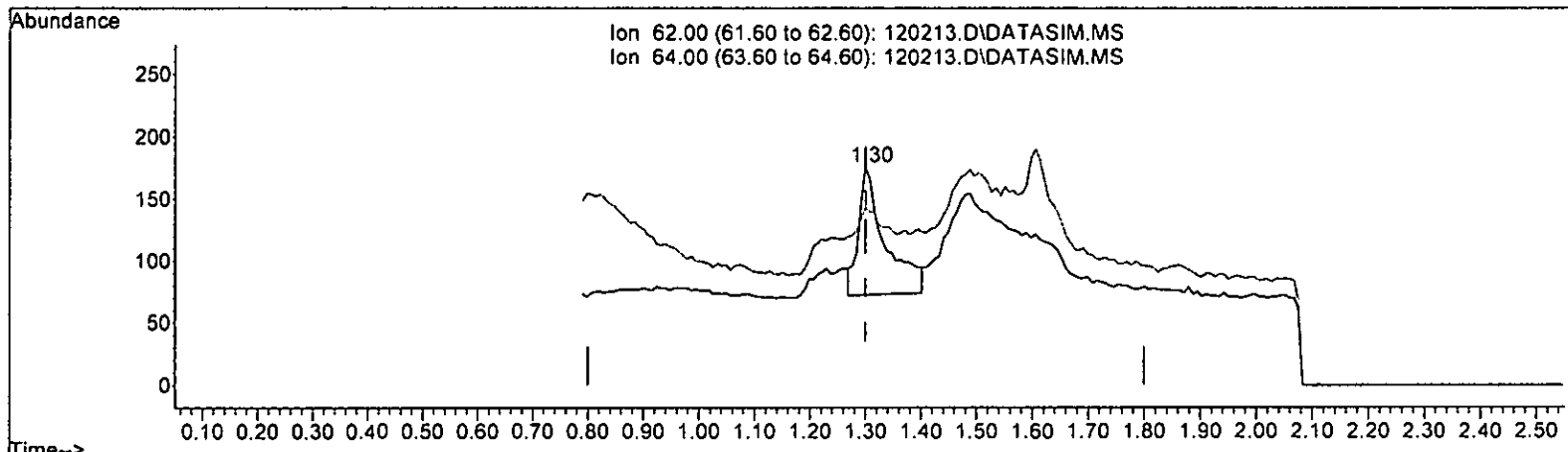
Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 0.075 ppb

response 345

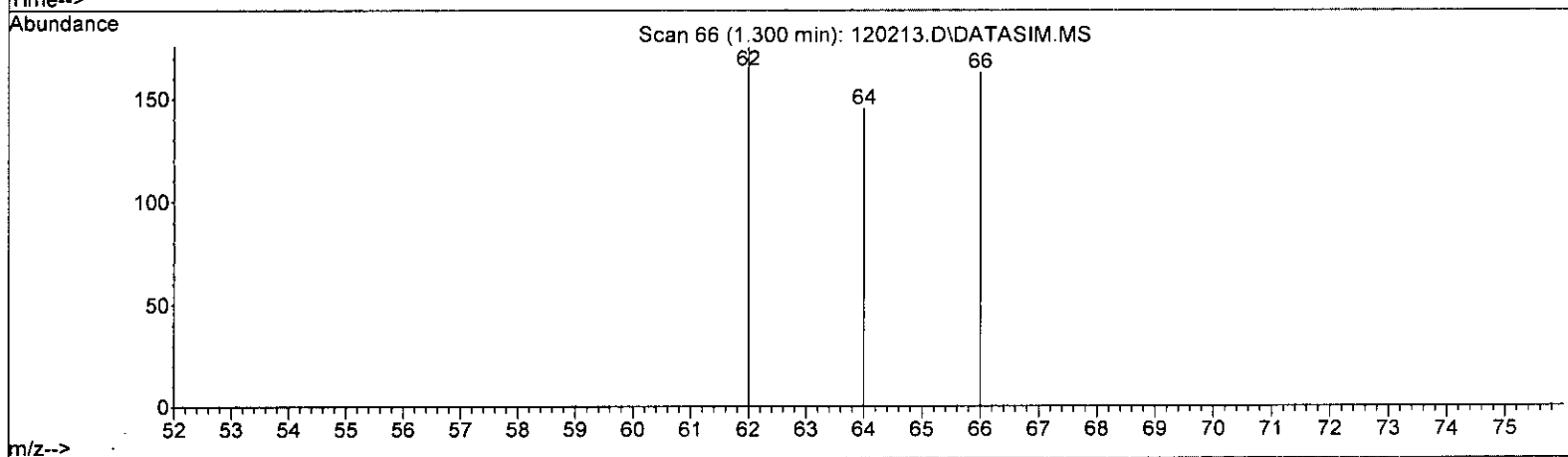
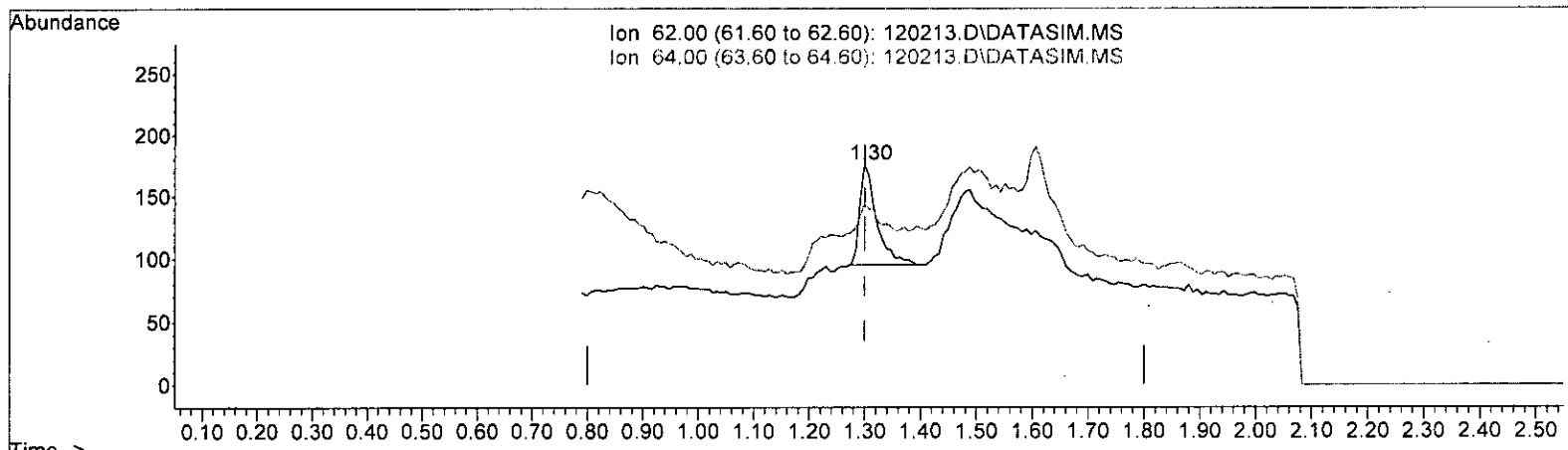
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	30.49
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 0.022 ppb m

response 169

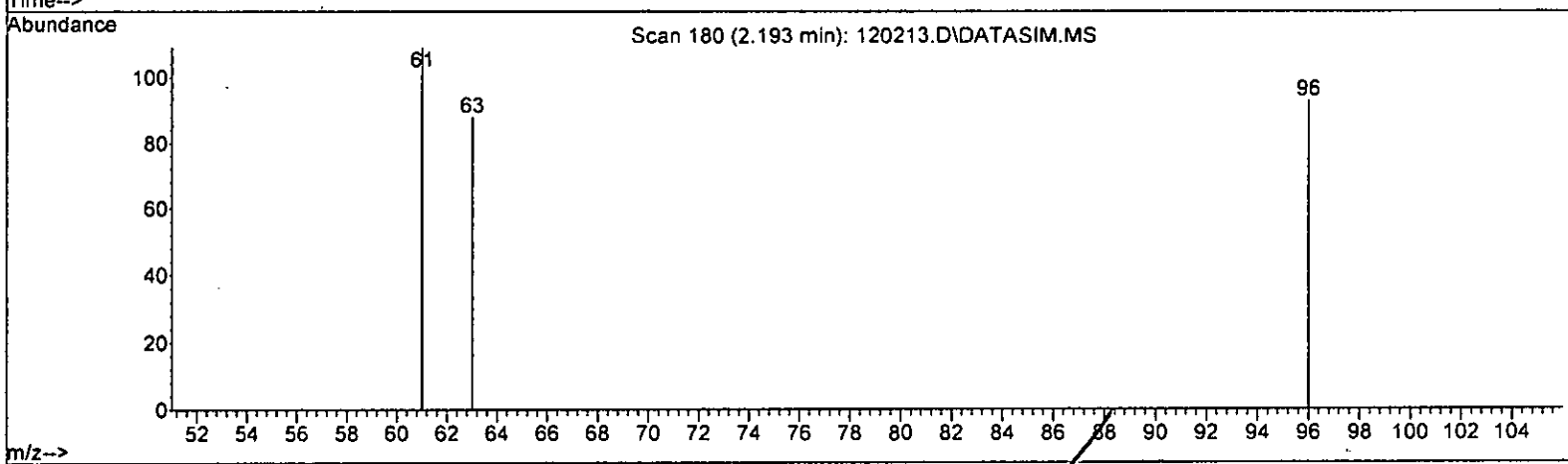
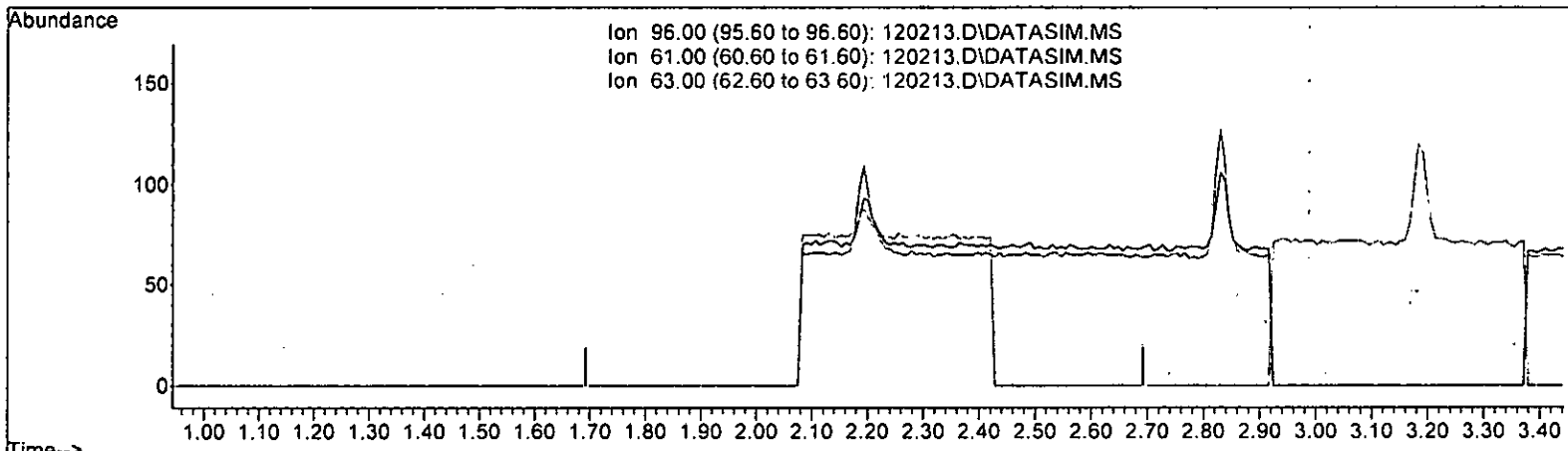
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	82.39#
0.00	0.00	0.00
0.00	0.00	0.00

*W 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)  
 2.193min (-2.193) 0.000 ppb  
 response 0

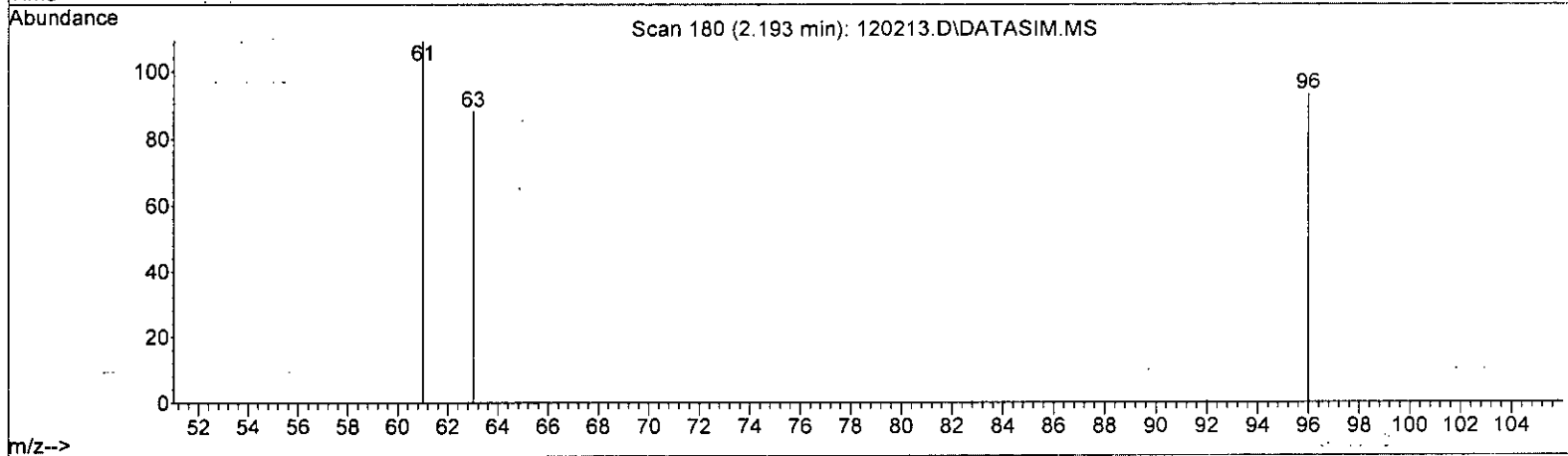
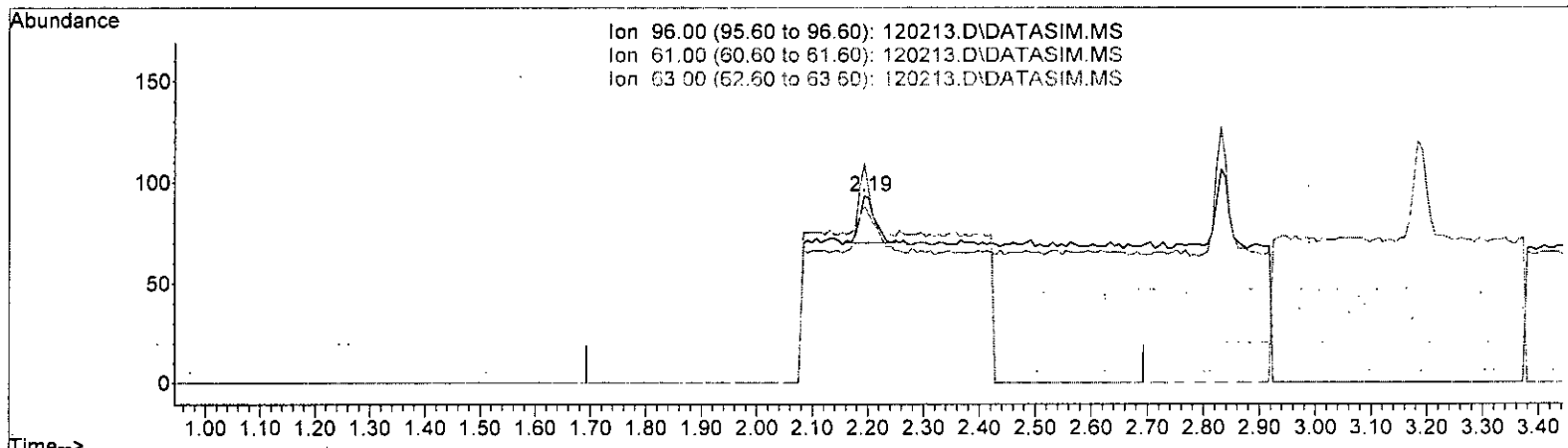
Ion	Exp%	Act%
96.00	100.00	0.00
61.00	148.60	0.00#
63.00	55.30	0.00#
0.00	0.00	0.00

*m 175*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 0.020 ppb m

response 43

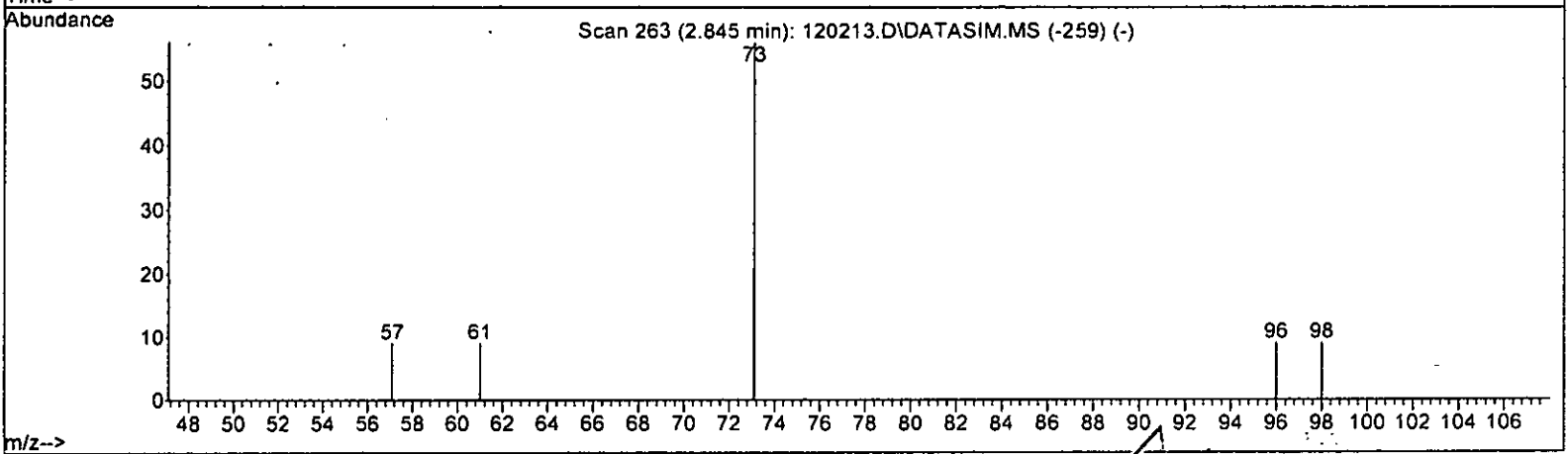
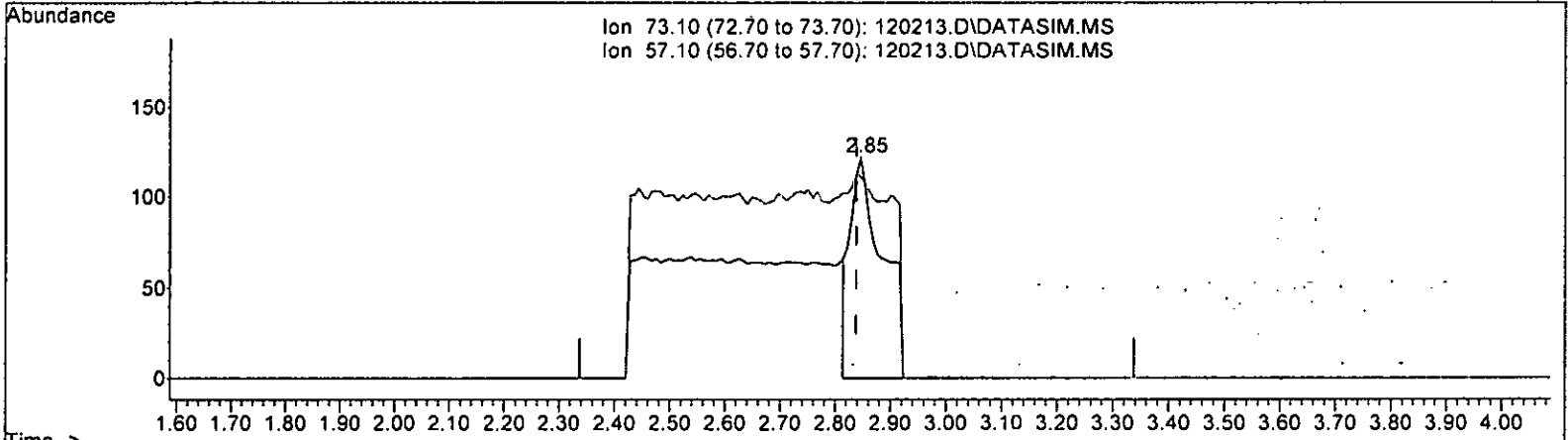
*LM 12.5*

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	117.20#
63.00	55.30	94.62#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.007) 0.133 ppb

response 497

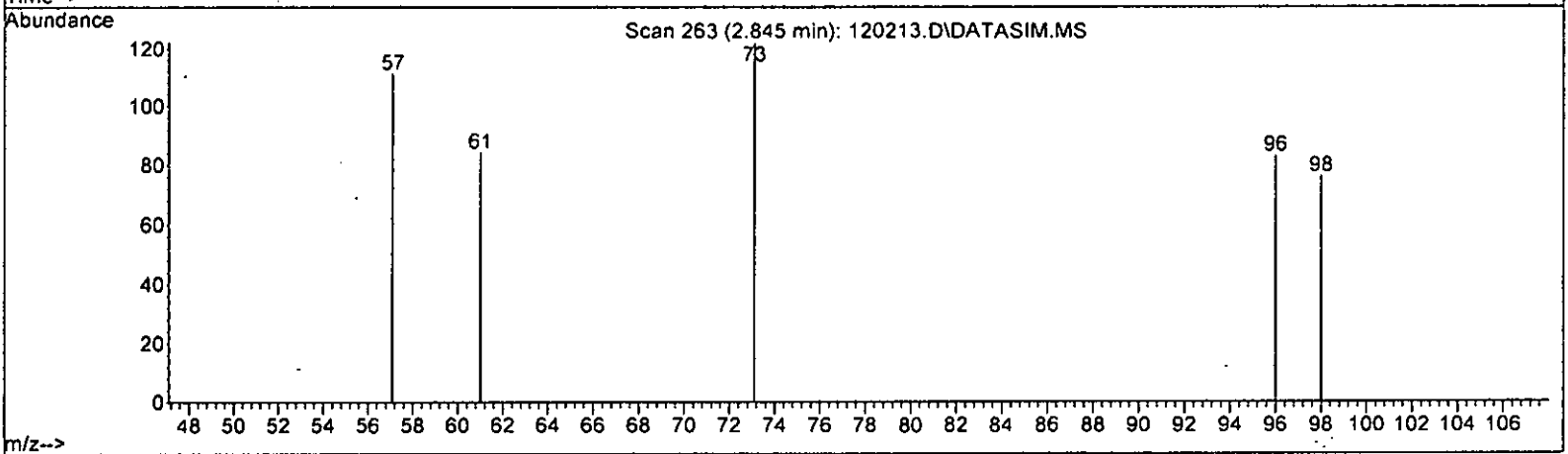
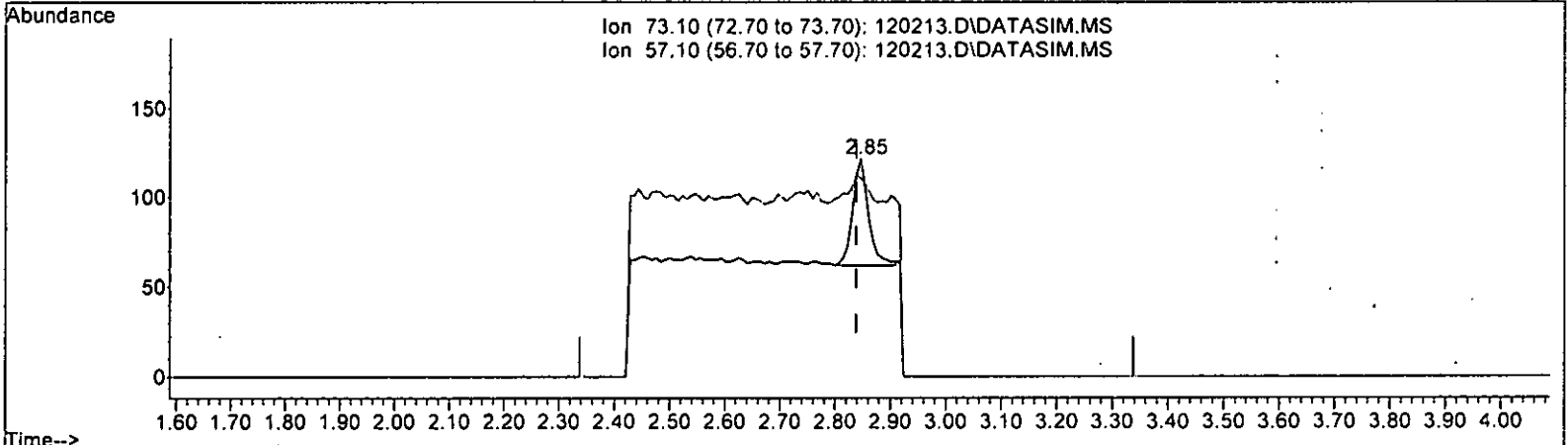
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	90.98#
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP) M 12.5

2.845min (+ 0.007) 0.017 ppb m

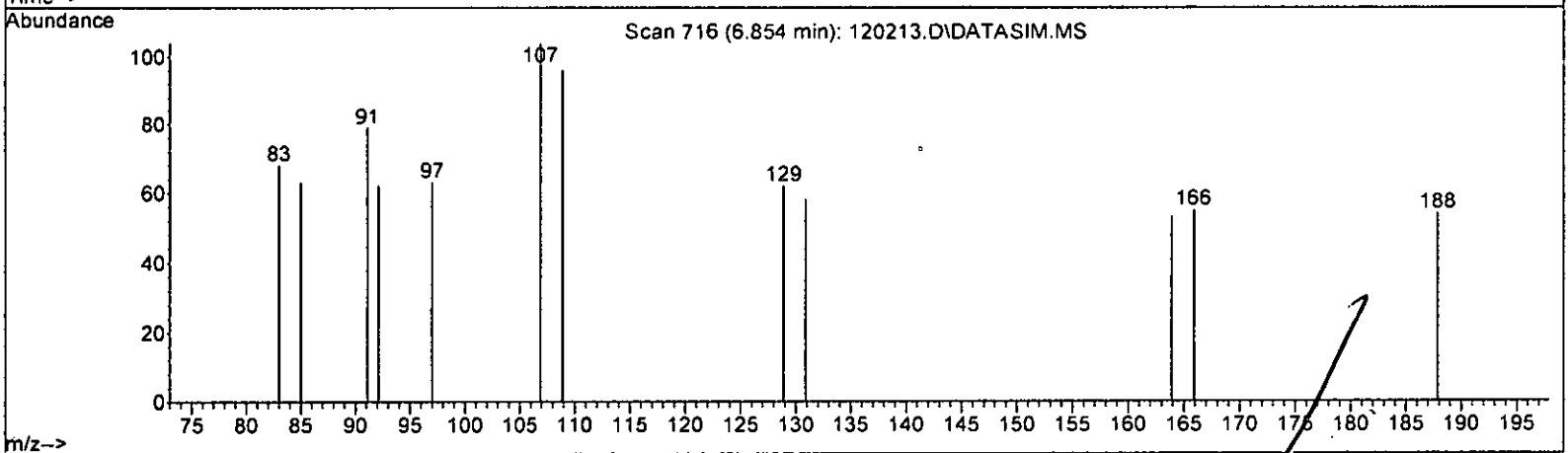
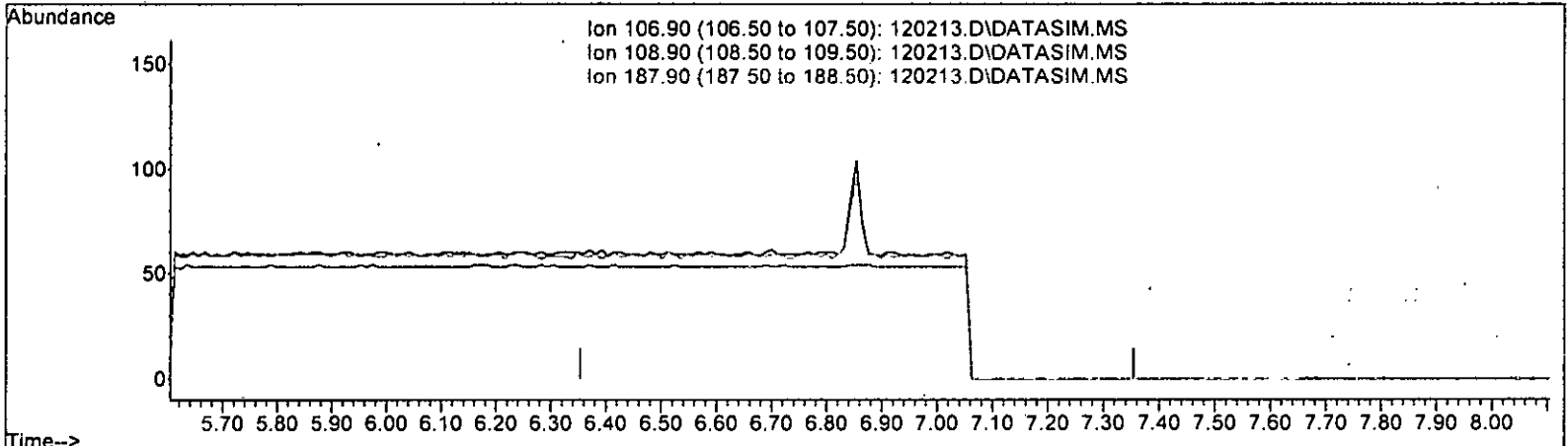
response 118

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	90.98#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(47) 1,2-Dibromoethane (EDB) (TMP)

6.854min	0.000 ppb d
response	0
Ion	Exp% Act%
106.90	100.00 0.00
108.90	95.40 0.00
187.90	3.60 0.00
0.00	0.00 0.00

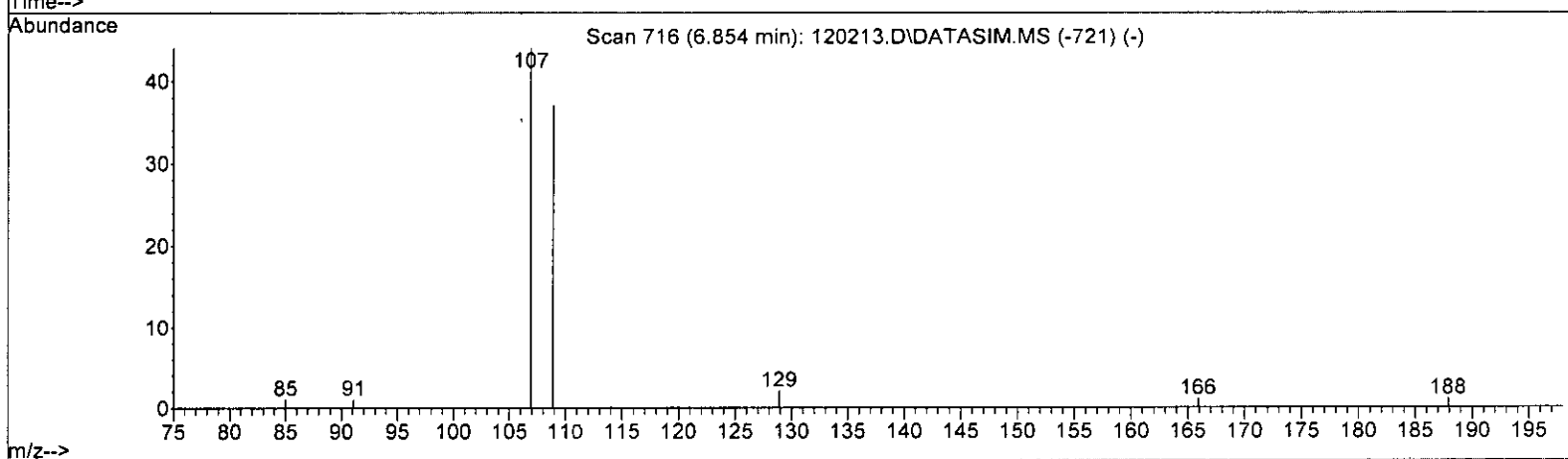
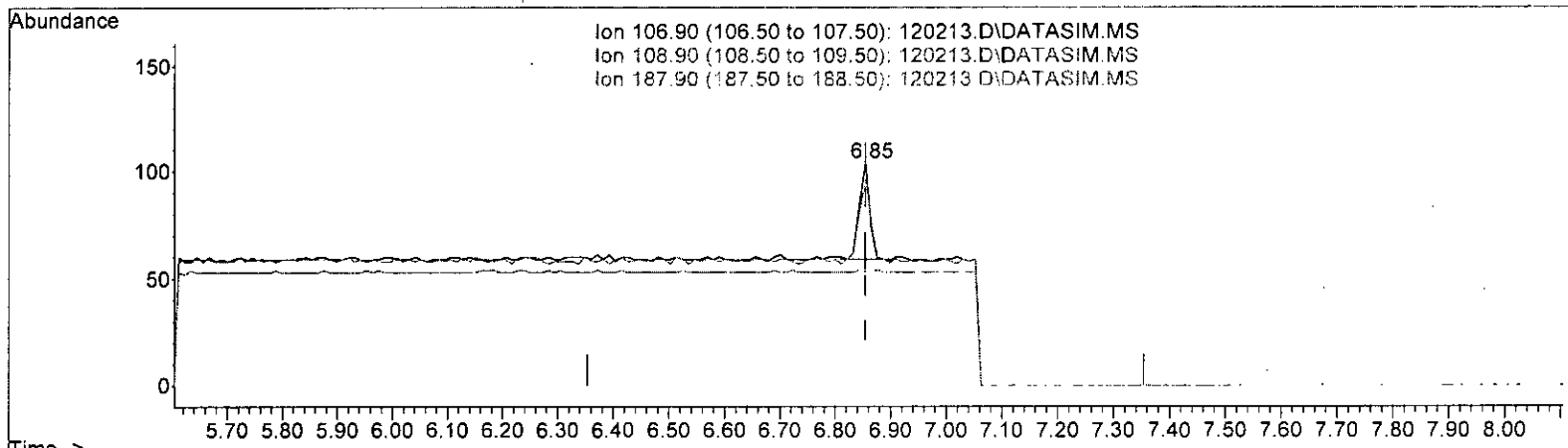
*Handwritten notes:* m, 27, 175



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(47) 1,2-Dibromoethane (EDB) (TMP)

6.854min ( 0.000) 0.017 ppb m

response 57

Ion	Exp%	Act%
106.90	100.00	100.00
108.90	95.40	92.31
187.90	3.60	51.92#
0.00	0.00	0.00

*m 12.5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.712	2.9	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.09#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.23#
6 TMP Vinyl chloride	0.020	0.022	-10.0	91	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.54#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.61#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.77#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.40#
11 TMP Acetone	-1.000	0.000	0.0	0	-2.27#
12 TMP 1,1-Dichloroethene	0.020	0.020	0.0	102	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.06#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.020	0.017	15.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.020	0.017	15.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP 1,1-Dichloroethane	0.020	0.018	10.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.67#
22 TMP cis-1,2-Dichloroethene	0.020	0.019	5.0	100	0.00
23 TMP Chloroform	-1.000	0.000	0.0	0	-3.94#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.71#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.50#
26 TMP 1,2-Dichloroethane (EDC)	0.020	0.020	0.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.020	0.023	-15.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.22#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S 1,2-Dichloroethane-d4	10.000	10.135	-1.3	100	0.00
31 TMP Benzene	0.020	0.021	-5.0	100	0.00
32 TMP Trichloroethene	0.020	0.020	0.0	100	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.13#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S Toluene-d8	10.000	10.026	-0.3	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.23#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.020	0.023	-15.0	106	0.00
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.25#
42 TMP 1,1,2-Trichloroethane	-1.000	0.000	0.0	0	-6.40#
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.020	0.022	-10.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.020	0.017	15.0	93	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP Ethylbenzene	0.020	0.015	25.0#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.040	0.040	0.0	100	0.00
52 TMP o-Xylene	0.020	0.020	0.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-7.90#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.07#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.079	-0.8	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.62#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.51#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.57#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.70#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.81#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.10#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.31#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.42#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.50#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-9.87#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.64#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.44#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.61#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.92#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.256	3.0	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.000#	100.0#	0#	-1.09#
5 TMP Chloromethane	0.951	0.000#	100.0#	0#	-1.23#
6 TMP Vinyl chloride	0.862	1.903	-120.8#	91	0.00
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	-1.54#
8 TMP Chloroethane	0.369	0.000#	100.0#	0#	-1.61#
9 TMP Trichlorofluoromethane	0.899	0.000#	100.0#	0#	-1.77#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.40#
11 TMP Acetone	0.031	0.000#	100.0#	0#	-2.27#
12 TMP 1,1-Dichloroethene	0.271	0.484	-78.6#	102	0.00
13 TMP Hexane	0.469	0.000#	100.0#	0#	-3.06#
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.812	1.329	-63.7#	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.676	-115.3#	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.000#	100.0#	0#	-3.24#
19 TMP 1,1-Dichloroethane	0.547	0.923	-68.7#	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.000#	100.0#	0#	-3.55#
21 TMP 2,2-Dichloropropane	0.347	0.000#	100.0#	0#	-3.67#
22 TMP cis-1,2-Dichloroethene	0.329	0.631	-91.8#	100	0.00
23 TMP Chloroform	0.477	0.000#	100.0#	0#	-3.94#
24 TMP 2-Butanone (MEK)	0.184	0.000#	100.0#	0#	-3.71#
25 TMP t-Amyl methyl ether (TAME)	0.739	0.000#	100.0#	0#	-4.50#
26 TMP 1,2-Dichloroethane (EDC)	0.479	1.205	-151.6#	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.822	-66.4#	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.000#	100.0#	0#	-4.22#
29 TMP Carbon tetrachloride	0.396	0.000#	100.0#	0#	-4.21#
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	1.103	1.993	-80.7#	100	0.00
32 TMP Trichloroethene	0.368	0.799	-117.1#	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.000#	100.0#	0#	-5.13#
34 TMP Bromodichloromethane	0.375	0.000#	100.0#	0#	-5.37#
35 S Toluene-d8	0.975	0.978	-0.3	100	0.00
36 TMP Dibromomethane	0.181	0.000#	100.0#	0#	-5.23#
37 TMP 4-Methyl-2-pentanone	0.054	0.000#	100.0#	0#	-5.91#
38 TMP cis-1,3-Dichloropropene	0.443	0.000#	100.0#	0#	-5.75#
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	2.162	-119.3#	106	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.000#	100.0#	0#	-6.25#
42 TMP 1,1,2-Trichloroethane	0.285	0.000#	100.0#	0#	-6.40#
43 TMP 2-Hexanone	0.312	0.000#	100.0#	0#	-6.64#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.420	1.223	-191.2#	100	0.00
46 TMP Dibromochloromethane	0.366	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.811	-114.0#	93	0.00
48 TMP Chlorobenzene	0.957	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.885	3.911	-107.5#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.705	1.501	-112.9#	100	0.00
52 TMP o-Xylene	0.683	1.380	-102.0#	100	0.00
53 TMP Styrene	1.004	0.000#	100.0#	0#	-7.90#
54 TMP Isopropylbenzene	1.606	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.269	0.000#	100.0#	0#	-8.07#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.871	-0.8	100	0.00
58 TMP n-Propylbenzene	3.386	0.000#	100.0#	0#	-8.62#
59 TMP Bromobenzene	0.790	0.000#	100.0#	0#	-8.51#
60 TMP 1,3,5-Trimethylbenzene	2.482	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.599	0.000#	100.0#	0#	-8.57#
63 TMP 2-Chlorotoluene	2.054	0.000#	100.0#	0#	-8.70#
64 TMP 4-Chlorotoluene	2.355	0.000#	100.0#	0#	-8.81#
65 TMP tert-Butylbenzene	2.194	0.000#	100.0#	0#	-9.10#
66 TMP 1,2,4-Trimethylbenzene	2.575	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	3.160	0.000#	100.0#	0#	-9.31#
68 TMP p-Isopropyltoluene	2.706	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.469	0.000#	100.0#	0#	-9.42#
70 TMP 1,4-Dichlorobenzene	1.498	0.000#	100.0#	0#	-9.50#
71 TMP 1,2-Dichlorobenzene	1.361	0.000#	100.0#	0#	-9.87#
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.000#	100.0#	0#	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.978	0.000#	100.0#	0#	-11.44#
74 TMP Hexachlorobutadiene	0.516	0.000#	100.0#	0#	-11.61#
75 TMP Naphthalene	2.401	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.885	0.000#	100.0#	0#	-11.92#

(#) = Out of Range

SPCC's out = 52 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	44408	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35154	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19419	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11367	9.712	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.10%
30) 1,2-Dichloroethane-d4	4.36	102	2683	10.135	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	101.30%
35) Toluene-d8	5.98	98	43431	10.026	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	100.30%
57) 4-Bromofluorobenzene	8.38	95	16912	10.079	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	0.00		0	N.D.	d	
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.30	62	169m	0.022	ppb	
7) Bromomethane	0.00		0	N.D.		
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.	d	
10) 2-Propanol	0.00		0	N.D.	d	
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.19	96	43m	0.020	ppb	
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16] Methyl t-butyl ether (...)	2.85	73	118m	0.017	ppb	
17] trans-1,2-Dichloroethene	2.83	96	60	0.017	ppb	87
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d	
19] 1,1-Dichloroethane	3.18	63	82	0.018	ppb	97
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	0.00		0	N.D.	d	
22] cis-1,2-Dichloroethene	3.67	96	56	0.019	ppb	90
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26] 1,2-Dichloroethane (EDC)	4.42	62	107	0.020	ppb	96
27] 1,1,1-Trichloroethane	4.08	97	73	0.023	ppb	93
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.		
31] Benzene	4.39	78	177	0.021	ppb	96
32] Trichloroethene	4.93	95	71	0.020	ppb	91
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

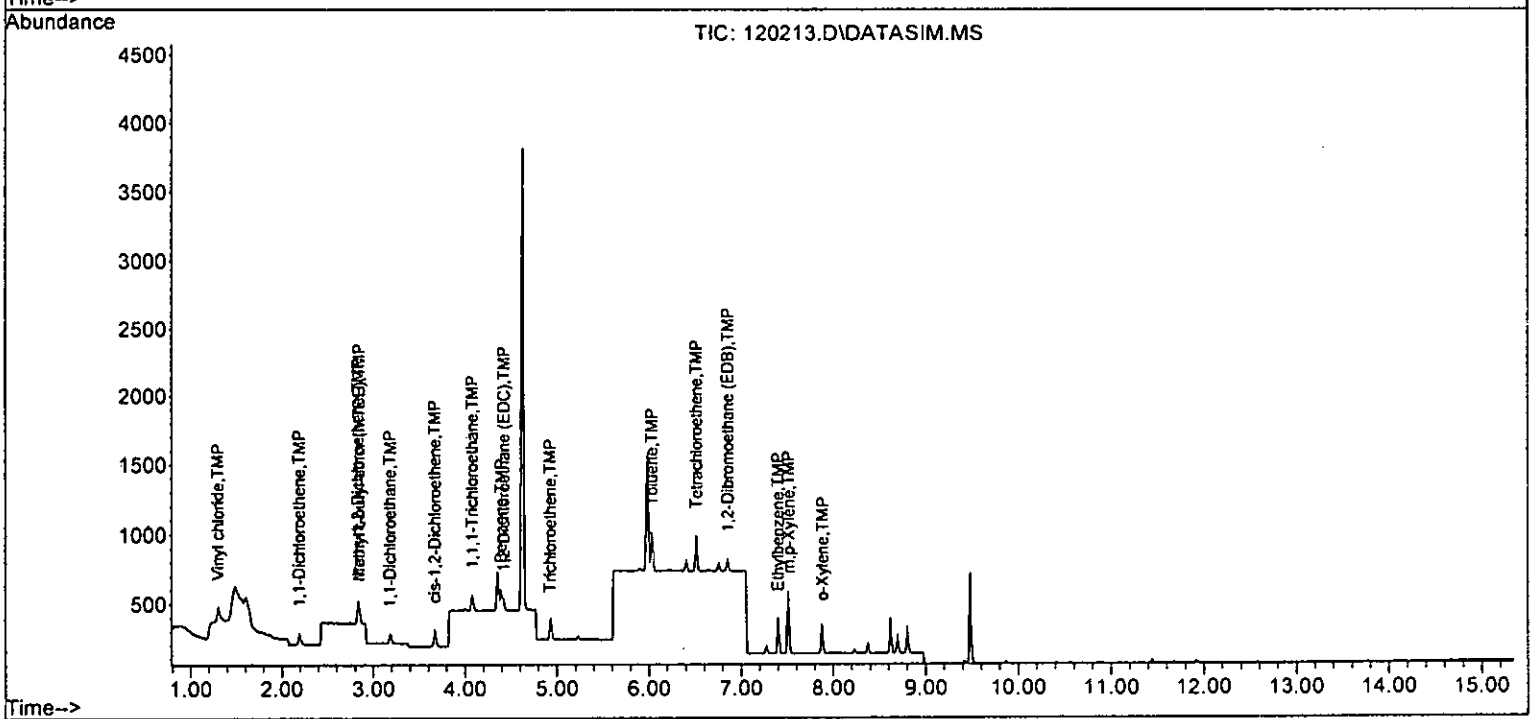
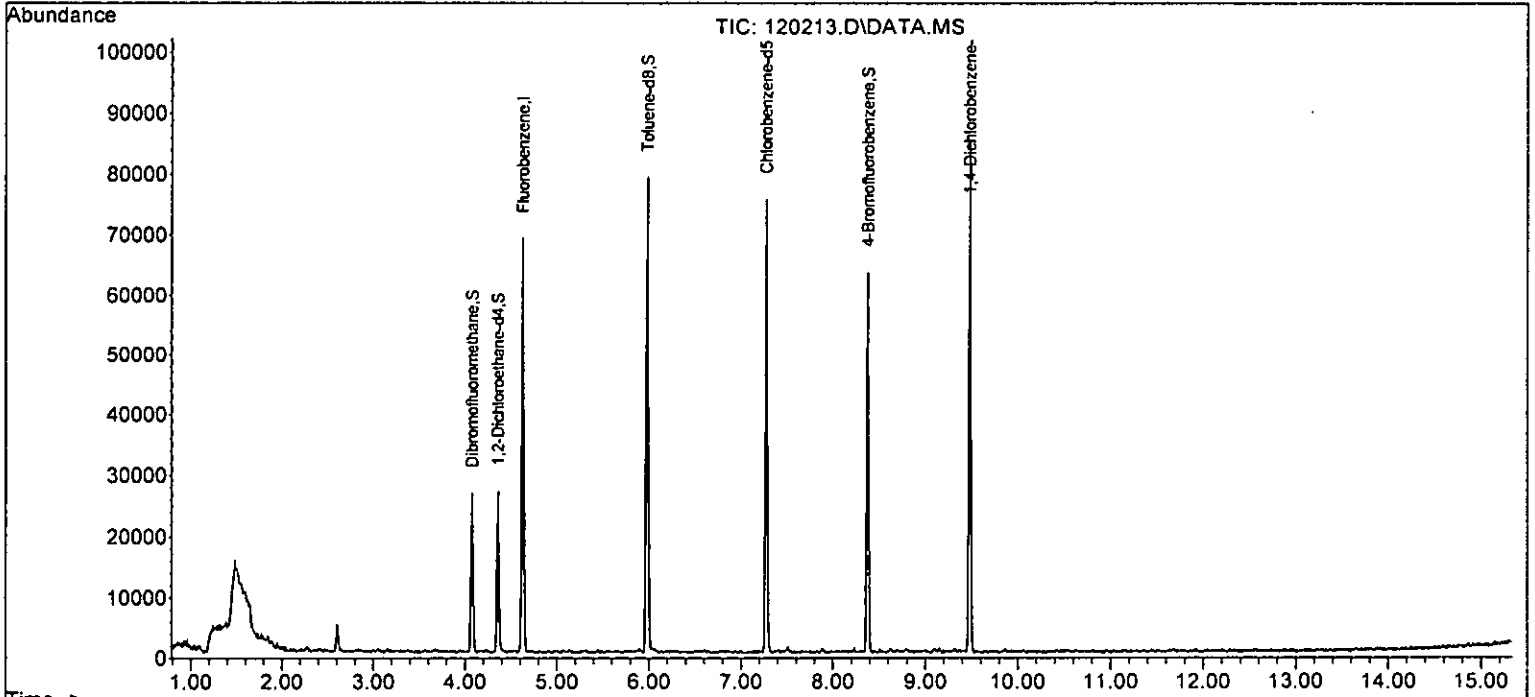
Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.03	92	152	0.023	ppb	98
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42) 1,1,2-Trichloroethane	0.00		0	N.D.		
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.		
45] Tetrachloroethene	6.51	164	86	0.022	ppb	95
46) Dibromochloromethane	0.00		0	N.D.		
47] 1,2-Dibromoethane (EDB)	6.85	107	57m	0.017	ppb	
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.40	91	275	0.015	ppb	97
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51] m,p-Xylene	7.52	106	211	0.040	ppb	# 72
52] o-Xylene	7.88	106	97	0.020	ppb	100
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

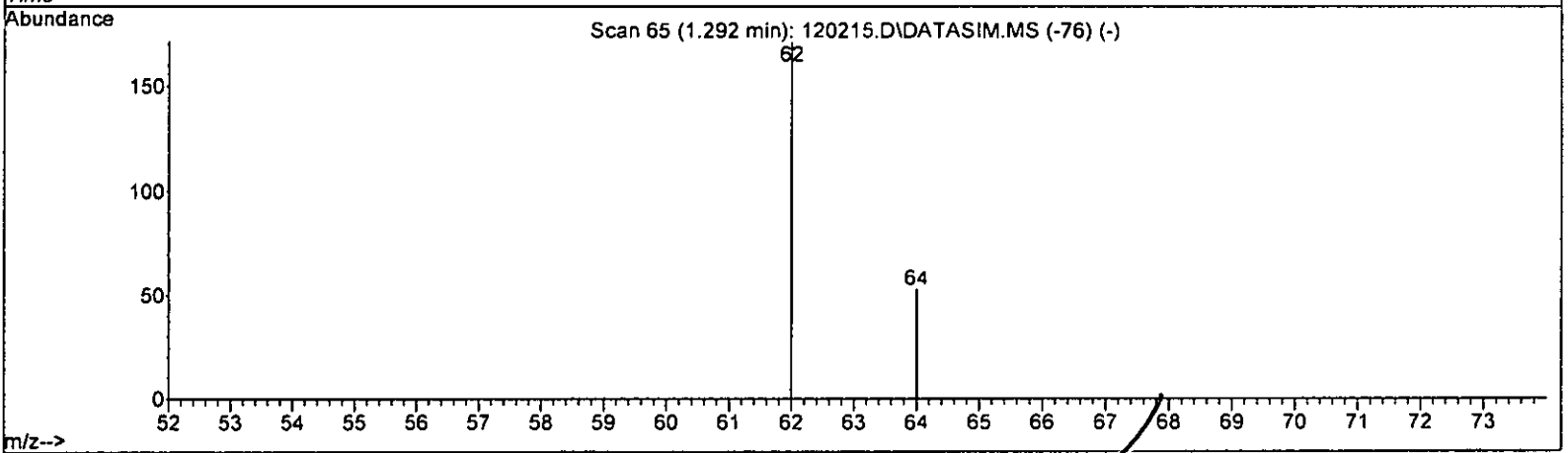
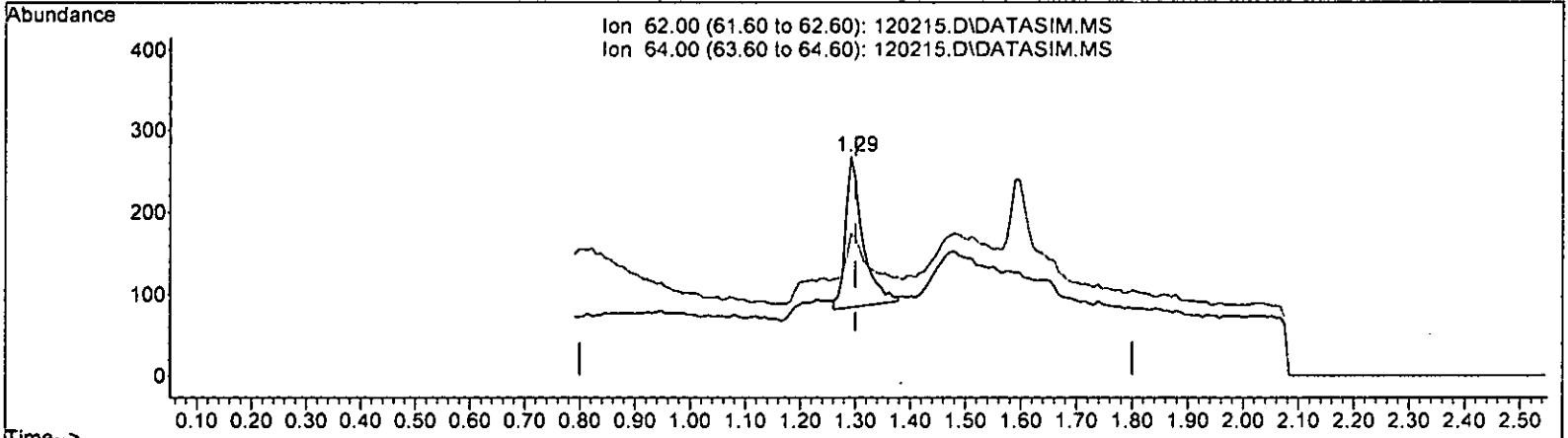




Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(6) Vinyl chloride (TMP)

1.292min (-0.008) 0.090 ppb

response 404

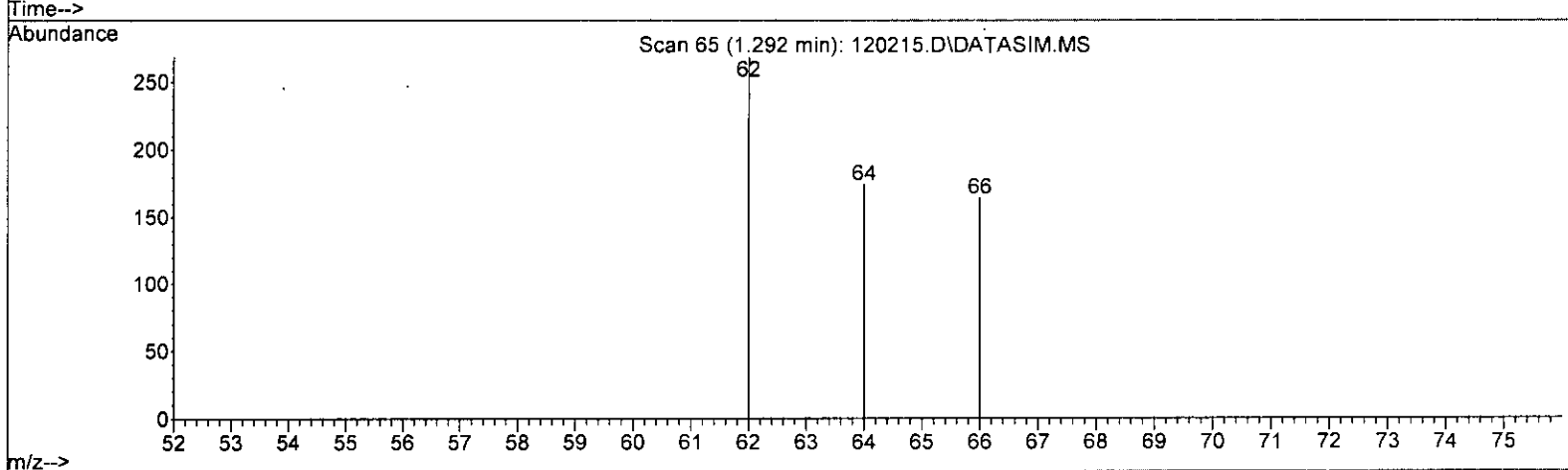
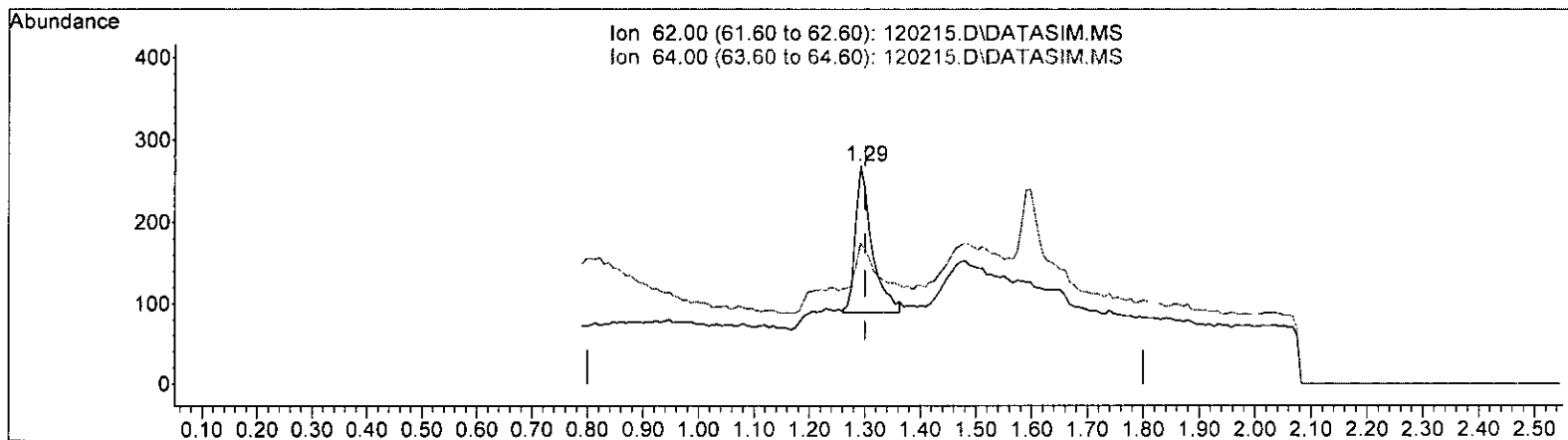
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	31.64
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 120215.D\DATA.MS

(6) Vinyl chloride (TMP)

1.292min (-0.008) 0.082 ppb m

response 376

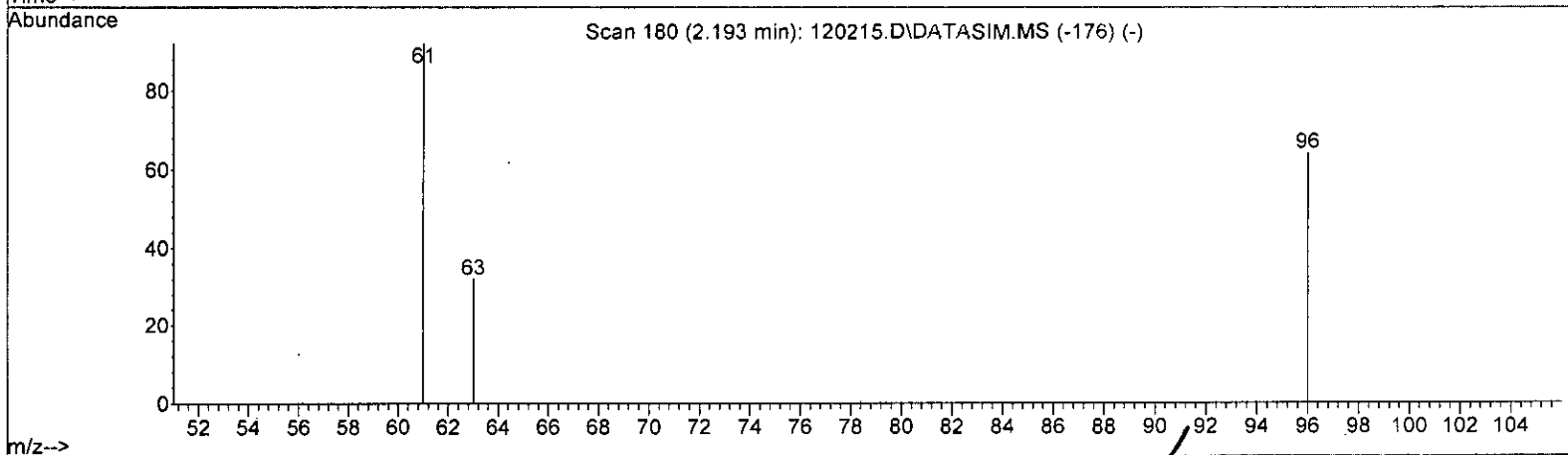
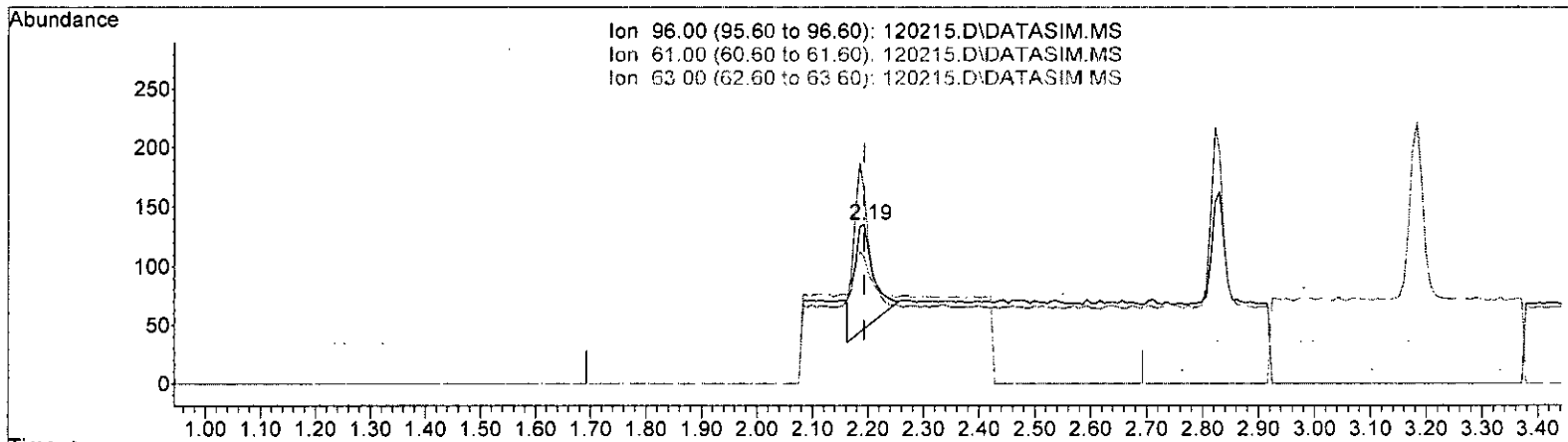
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	64.93#
0.00	0.00	0.00
0.00	0.00	0.00

M12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 0.178 ppb

response 220

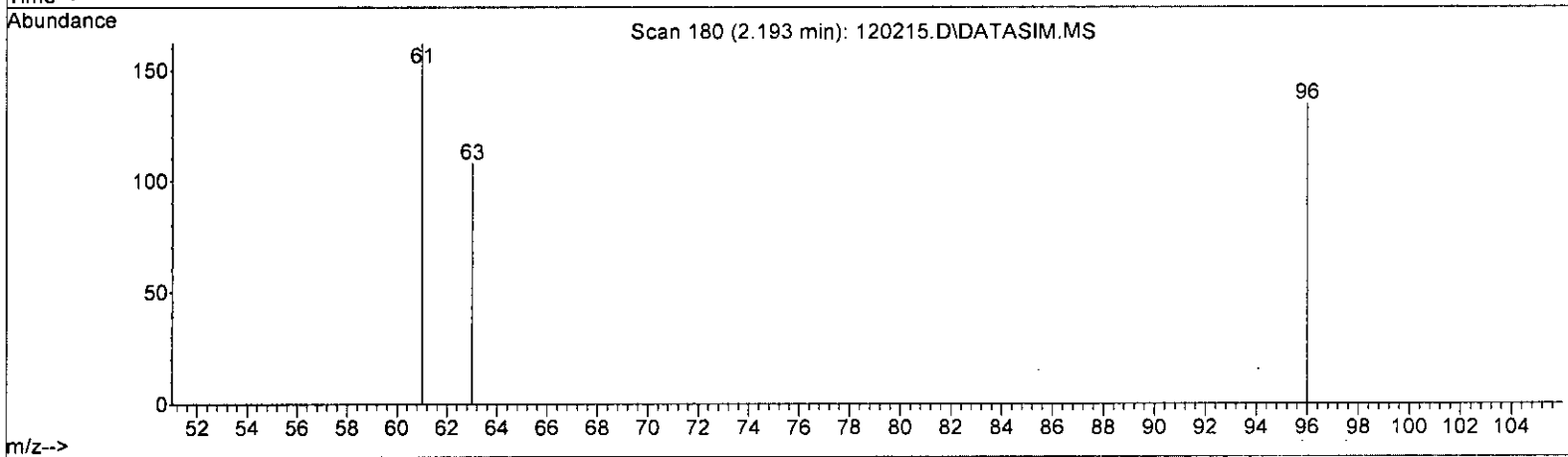
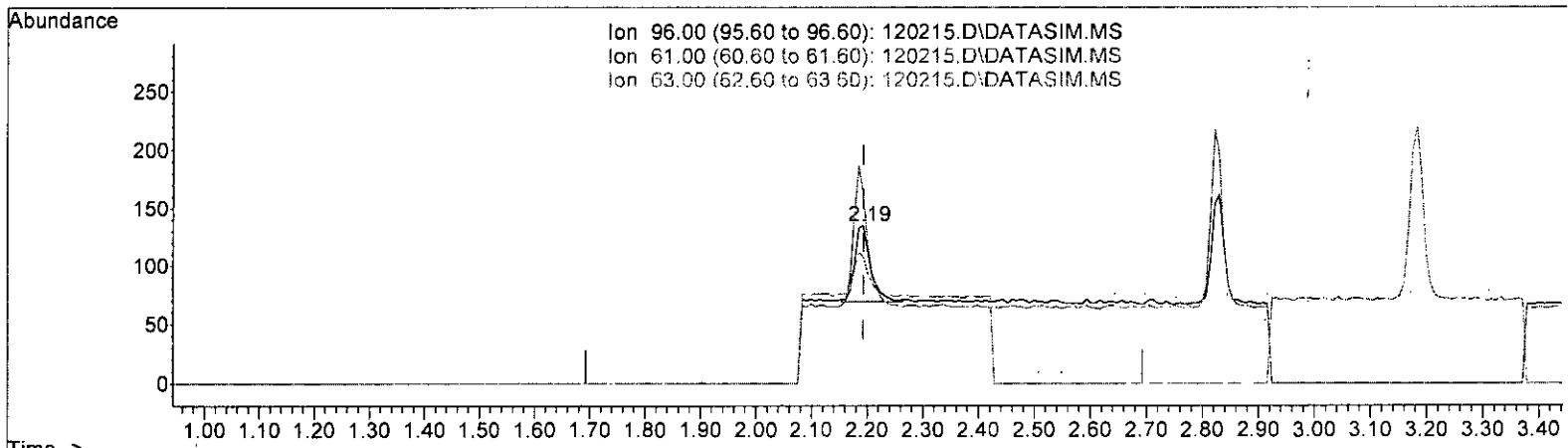
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	147.69
63.00	55.30	52.31
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(12) 1,1-Dichloroethene (TMP) *M 12.5*

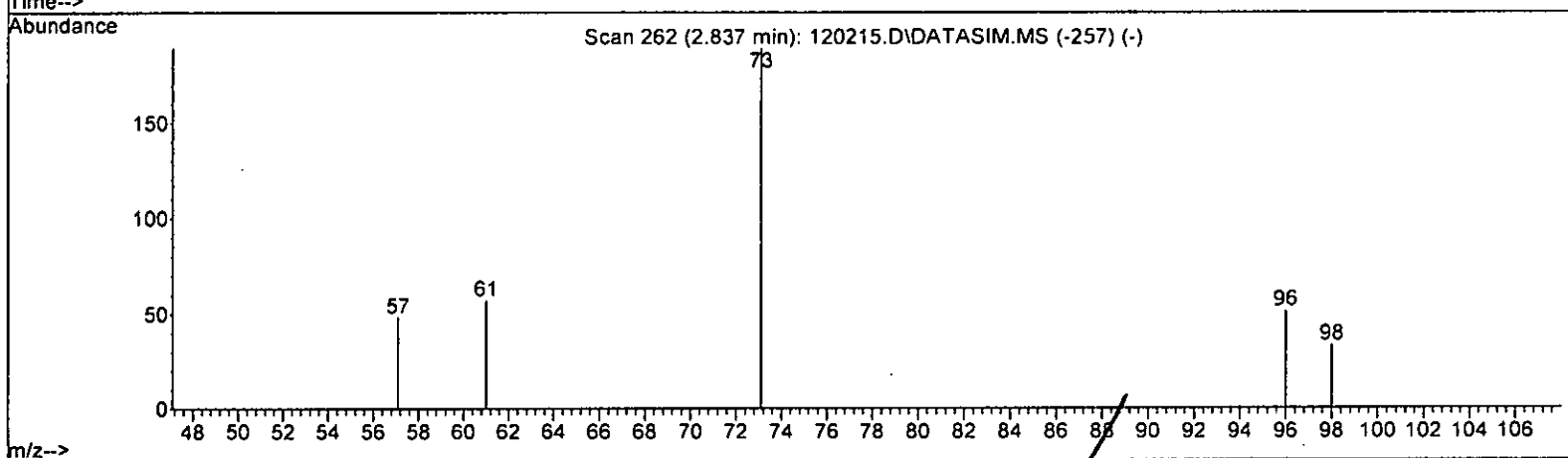
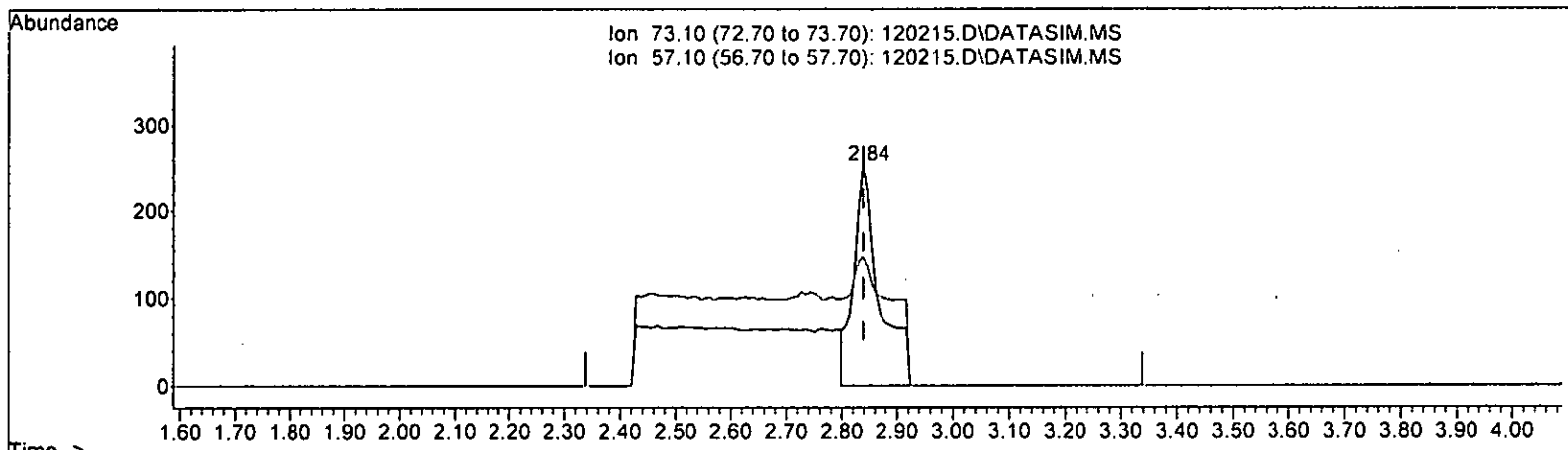
2.193min (-0.000) 0.097 ppb m

response	129	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	120.00
63.00	55.30	80.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 0.222 ppb

response 806

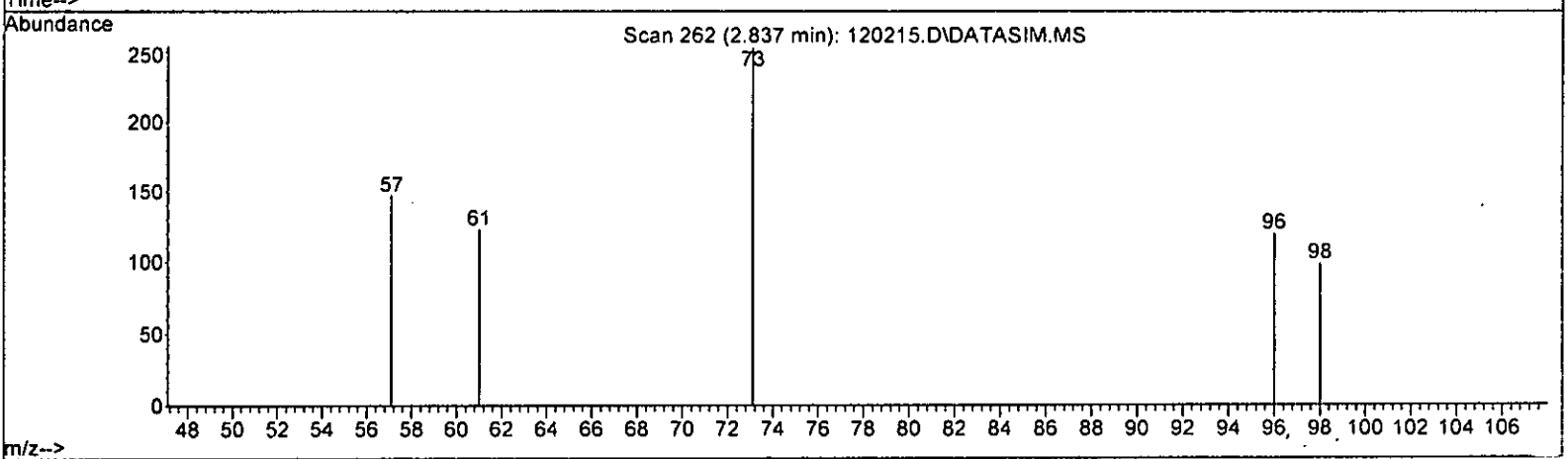
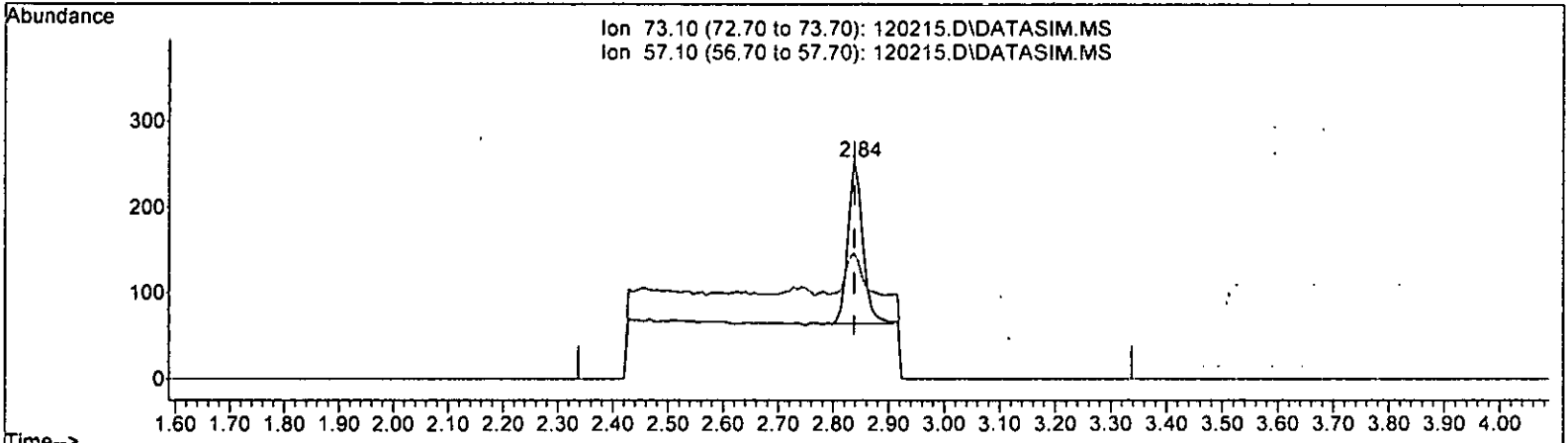
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	58.10#
0.00	0.00	0.00
0.00	0.00	0.00

*u 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

M 12.5

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 0.086 ppb m

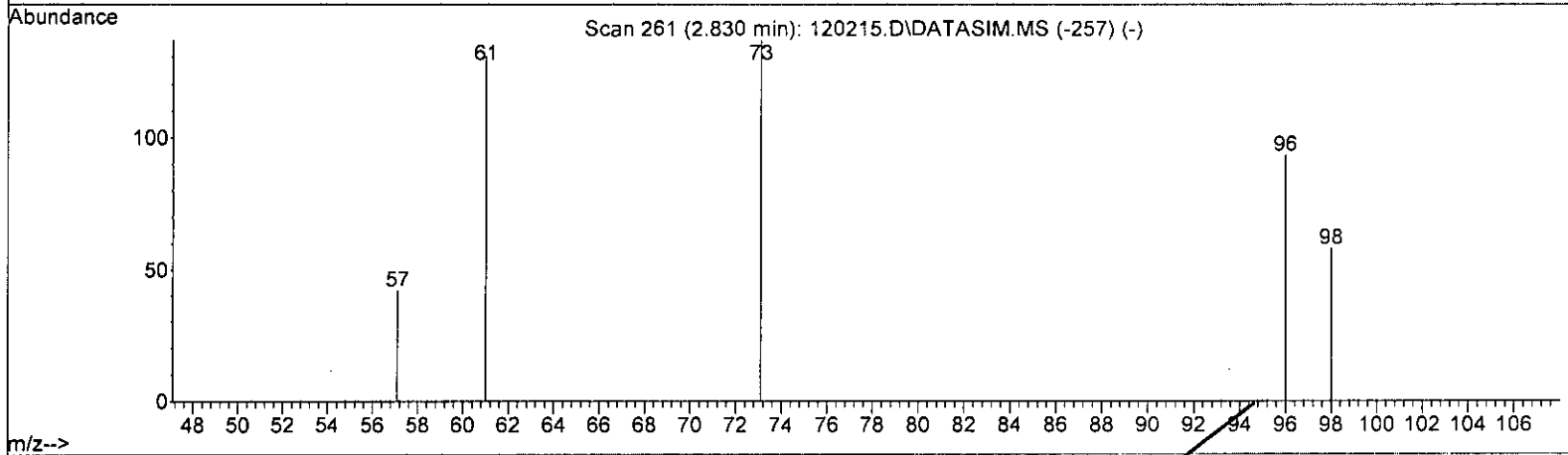
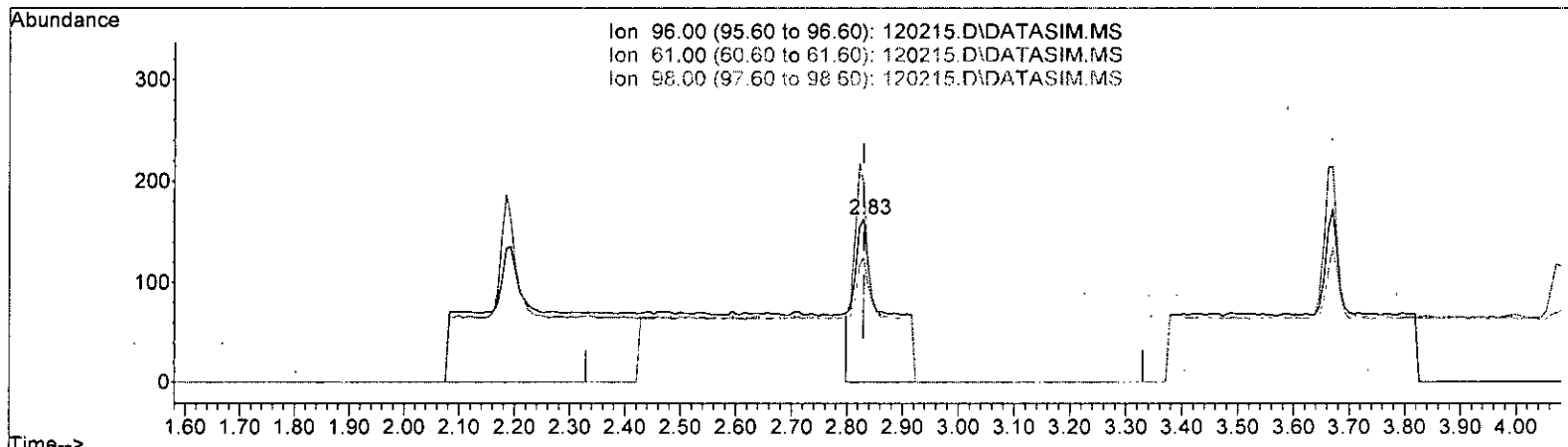
response 351

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	58.10#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 0.481 ppb

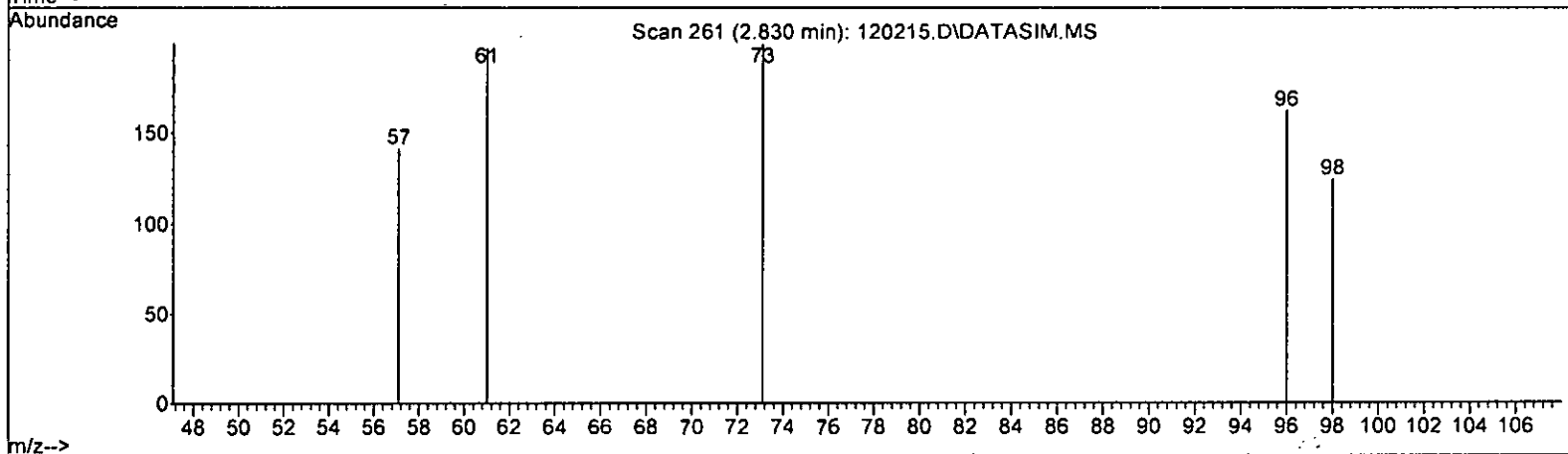
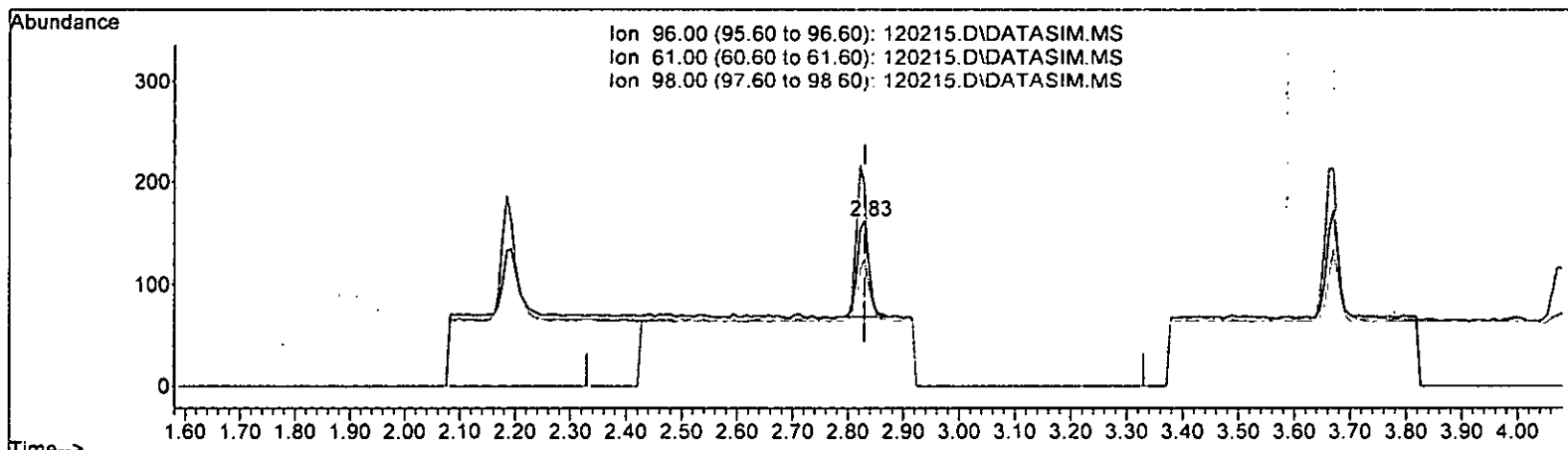
response	621	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	120.99
98.00	68.00	76.54
0.00	0.00	0.00

*Handwritten notes: m, 12.9*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 0.083 ppb m

response 141

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	120.99
98.00	68.00	76.54
0.00	0.00	0.00

*W*  
*128*



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.217	-2.2	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.09#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.23#
6 TMP Vinyl chloride	0.100	0.082	18.0	101	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.54#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.61#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.77#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.40#
11 TMP Acetone	-1.000	0.000	0.0	0	-2.27#
12 TMP 1,1-Dichloroethene	0.100	0.097	3.0	97	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.06#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.100	0.086	14.0	98	0.00
17 TMP trans-1,2-Dichloroethene	0.100	0.083	17.0	87	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP 1,1-Dichloroethane	0.100	0.090	10.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.67#
22 TMP cis-1,2-Dichloroethene	0.100	0.093	7.0	100	0.00
23 TMP Chloroform	-1.000	0.000	0.0	0	-3.94#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.71#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.50#
26 TMP 1,2-Dichloroethane (EDC)	0.100	0.090	10.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.100	0.091	9.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.22#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S 1,2-Dichloroethane-d4	10.000	9.905	1.0	100	0.00
31 TMP Benzene	0.100	0.091	9.0	100	0.00
32 TMP Trichloroethene	0.100	0.092	8.0	100	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.13#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S Toluene-d8	10.000	9.912	0.9	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.23#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.100	0.095	5.0	100	0.00
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.25#
42 TMP 1,1,2-Trichloroethane	0.100	0.105	-5.0	100	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.100	0.093	7.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.100	0.093	7.0	100	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP Ethylbenzene	0.100	0.091	9.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.200	0.190	5.0	100	0.00
52 TMP o-Xylene	0.100	0.094	6.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-7.90#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.07#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	10.000	10.029	-0.3	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.62#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.51#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.57#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.70#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.81#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.10#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.31#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.42#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.50#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-9.87#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.64#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.44#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.61#
75 TMP Naphthalene	0.100	0.138	-38.0#	100	0.00
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.92#

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.269	-1.9	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.000#	100.0#	0#	-1.09#
5 TMP Chloromethane	0.951	0.000#	100.0#	0#	-1.23#
6 TMP Vinyl chloride	0.862	0.831	3.6	101	0.00
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	-1.54#
8 TMP Chloroethane	0.369	0.000#	100.0#	0#	-1.61#
9 TMP Trichlorofluoromethane	0.899	0.000#	100.0#	0#	-1.77#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.40#
11 TMP Acetone	0.031	0.000#	100.0#	0#	-2.27#
12 TMP 1,1-Dichloroethene	0.271	0.285	-5.2	97	0.00
13 TMP Hexane	0.469	0.000#	100.0#	0#	-3.06#
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.776	4.4	98	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.312	0.6	87	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.000#	100.0#	0#	-3.24#
19 TMP 1,1-Dichloroethane	0.547	0.541	1.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.000#	100.0#	0#	-3.55#
21 TMP 2,2-Dichloropropane	0.347	0.000#	100.0#	0#	-3.67#
22 TMP cis-1,2-Dichloroethene	0.329	0.343	-4.3	100	0.00
23 TMP Chloroform	0.477	0.000#	100.0#	0#	-3.94#
24 TMP 2-Butanone (MEK)	0.184	0.000#	100.0#	0#	-3.71#
25 TMP t-Amyl methyl ether (TAME)	0.739	0.000#	100.0#	0#	-4.50#
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.515	-7.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.480	2.8	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.000#	100.0#	0#	-4.22#
29 TMP Carbon tetrachloride	0.396	0.000#	100.0#	0#	-4.21#
30 S 1,2-Dichloroethane-d4	0.060	0.059	1.7	100	0.00
31 TMP Benzene	1.103	1.100	0.3	100	0.00
32 TMP Trichloroethene	0.368	0.389	-5.7	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.000#	100.0#	0#	-5.13#
34 TMP Bromodichloromethane	0.375	0.000#	100.0#	0#	-5.37#
35 S Toluene-d8	0.975	0.967	0.8	100	0.00
36 TMP Dibromomethane	0.181	0.000#	100.0#	0#	-5.23#
37 TMP 4-Methyl-2-pentanone	0.054	0.000#	100.0#	0#	-5.91#
38 TMP cis-1,3-Dichloropropene	0.443	0.000#	100.0#	0#	-5.75#
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	1.057	-7.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.000#	100.0#	0#	-6.25#
42 TMP 1,1,2-Trichloroethane	0.285	0.352	-23.5#	100	0.00
43 TMP 2-Hexanone	0.312	0.000#	100.0#	0#	-6.64#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.420	0.481	-14.5	100	0.00
46 TMP Dibromochloromethane	0.366	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.407	-7.4	100	0.00
48 TMP Chlorobenzene	0.957	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.885	2.005	-6.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.705	0.757	-7.4	100	0.00
52 TMP o-Xylene	0.683	0.722	-5.7	100	0.00
53 TMP Styrene	1.004	0.000#	100.0#	0#	-7.90#
54 TMP Isopropylbenzene	1.606	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.269	0.000#	100.0#	0#	-8.07#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.867	-0.3	100	0.00
58 TMP n-Propylbenzene	3.386	0.000#	100.0#	0#	-8.62#
59 TMP Bromobenzene	0.790	0.000#	100.0#	0#	-8.51#
60 TMP 1,3,5-Trimethylbenzene	2.482	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.599	0.000#	100.0#	0#	-8.57#
63 TMP 2-Chlorotoluene	2.054	0.000#	100.0#	0#	-8.70#
64 TMP 4-Chlorotoluene	2.355	0.000#	100.0#	0#	-8.81#
65 TMP tert-Butylbenzene	2.194	0.000#	100.0#	0#	-9.10#
66 TMP 1,2,4-Trimethylbenzene	2.575	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	3.160	0.000#	100.0#	0#	-9.31#
68 TMP p-Isopropyltoluene	2.706	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.469	0.000#	100.0#	0#	-9.42#
70 TMP 1,4-Dichlorobenzene	1.498	0.000#	100.0#	0#	-9.50#
71 TMP 1,2-Dichlorobenzene	1.361	0.000#	100.0#	0#	-9.87#
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.000#	100.0#	0#	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.978	0.000#	100.0#	0#	-11.44#
74 TMP Hexachlorobutadiene	0.516	0.000#	100.0#	0#	-11.61#
75 TMP Naphthalene	2.401	3.313	-38.0#	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.000#	100.0#	0#	-11.92#

(#) = Out of Range

SPCC's out = 50 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	45253	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	34919	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19347	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12185	10.217	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	102.20%		
30) 1,2-Dichloroethane-d4	4.36	102	2672	9.905	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	99.00%		
35) Toluene-d8	5.98	98	43753	9.912	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	99.10%		
57) 4-Bromofluorobenzene	8.38	95	16765	10.029	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	100.30%		
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.29	62	376m	0.082	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	0.00		0	N.D.	d		
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.19	96	129m	0.097	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.84	73	351m	0.086	ppb		
17] trans-1,2-Dichloroethene	2.83	96	141m	0.083	ppb		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d		
19] 1,1-Dichloroethane	3.18	63	245	0.090	ppb		99
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d		
21) 2,2-Dichloropropane	0.00		0	N.D.	d		
22] cis-1,2-Dichloroethene	3.67	96	155	0.093	ppb		95
23) Chloroform	0.00		0	N.D.	d		
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d		
26] 1,2-Dichloroethane (EDC)	4.41	62	233	0.090	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	217	0.091	ppb		98
28) 1,1-Dichloropropene	0.00		0	N.D.	d		
29) Carbon tetrachloride	0.00		0	N.D.	d		
31] Benzene	4.39	78	498	0.091	ppb		97
32] Trichloroethene	4.93	95	176	0.092	ppb		99
33) 1,2-Dichloropropane	0.00		0	N.D.	d		
34) Bromodichloromethane	0.00		0	N.D.	d		
36) Dibromomethane	0.00		0	N.D.	d		

Data Path : Y:\Proc\_GCM511\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

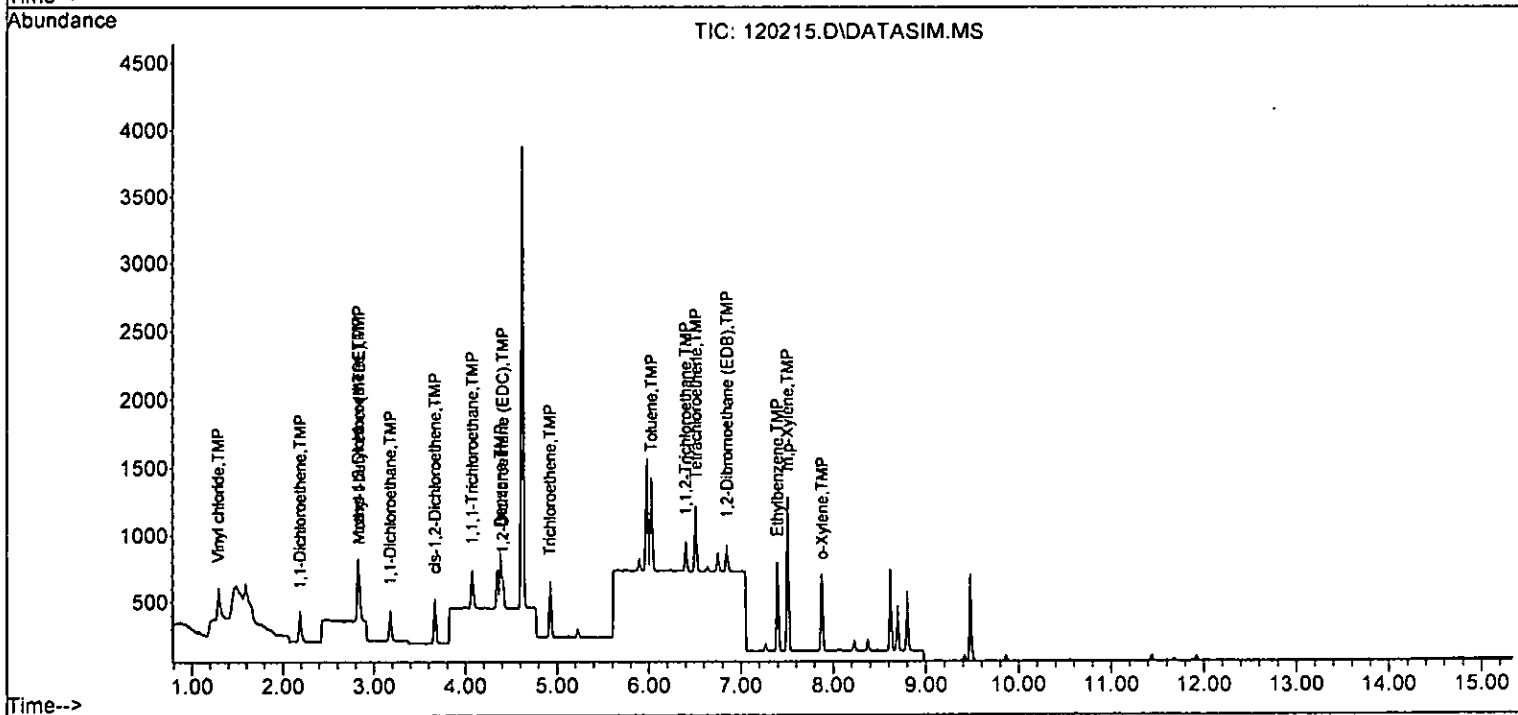
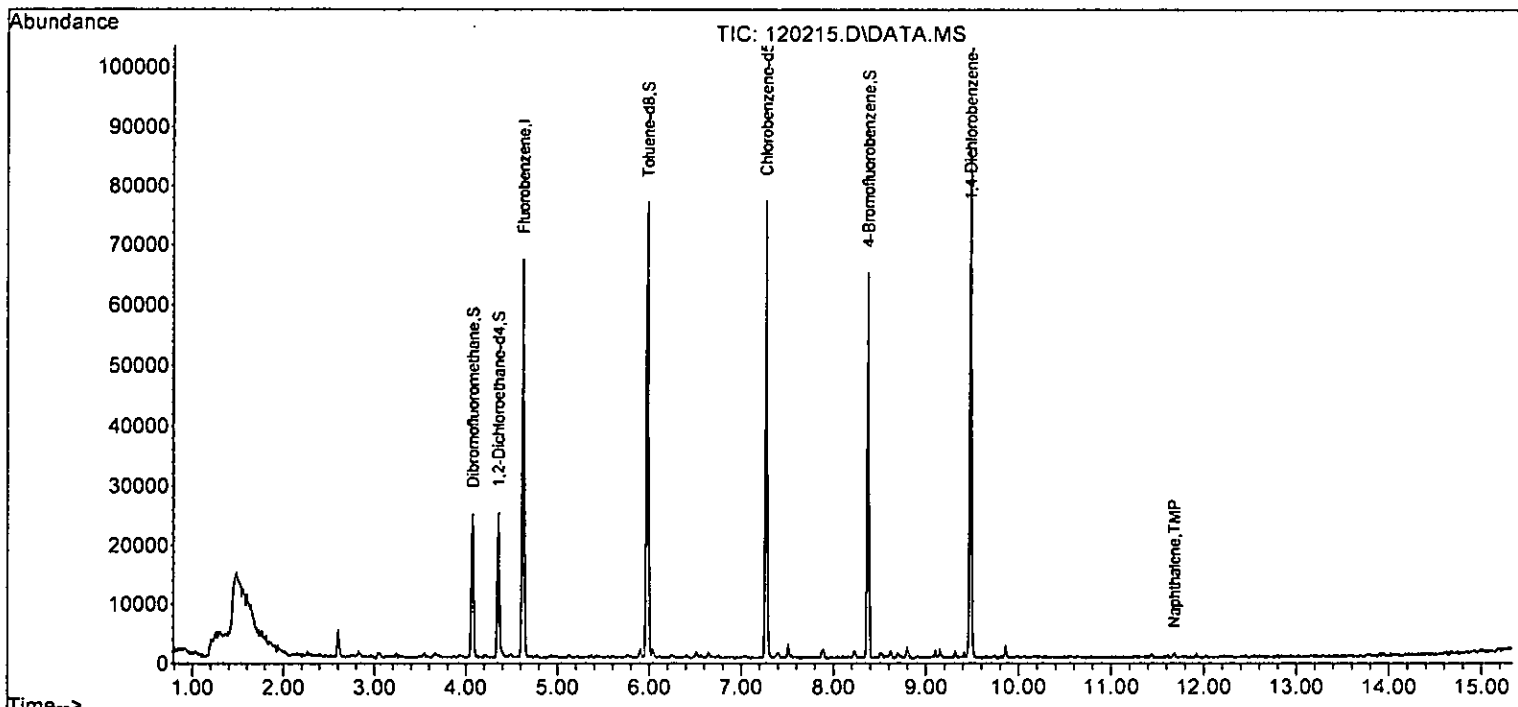
Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.03	92	369	0.095	ppb	99
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42] 1,1,2-Trichloroethane	6.40	83	123	0.105	ppb	100
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.51	164	168	0.093	ppb	98
46) Dibromochloromethane	0.00		0	N.D.	d	
47] 1,2-Dibromoethane (EDB)	6.85	107	142	0.093	ppb	99
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.40	91	700	0.091	ppb	100
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.51	106	529	0.190	ppb	99
52] o-Xylene	7.88	106	252	0.094	ppb	99
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	11.68	128	641	0.138	ppb	84
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

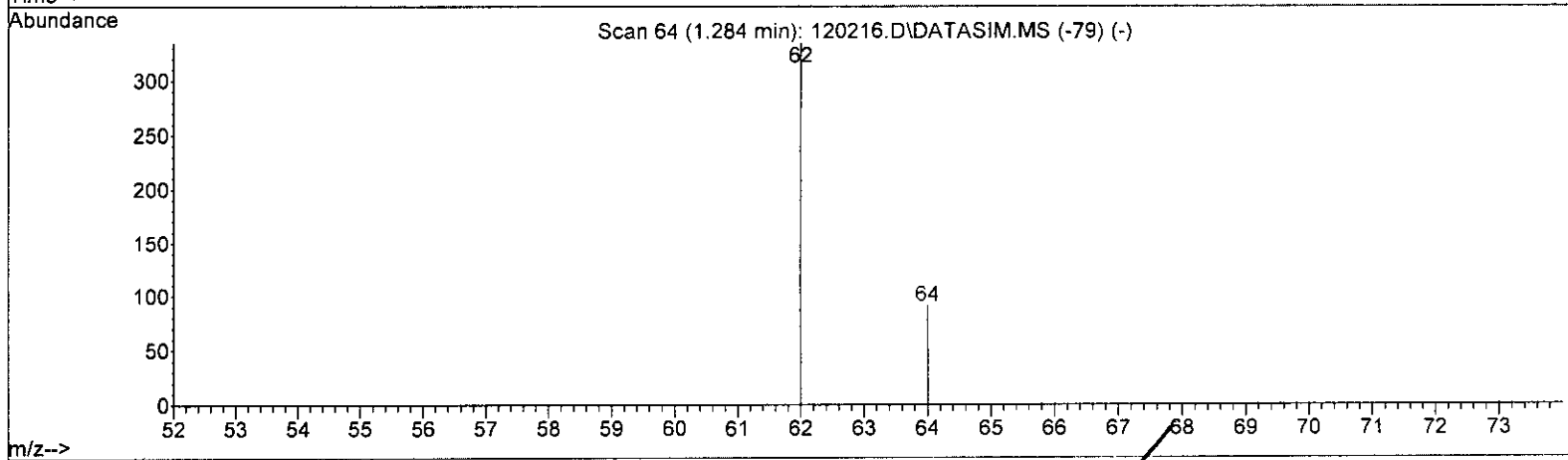
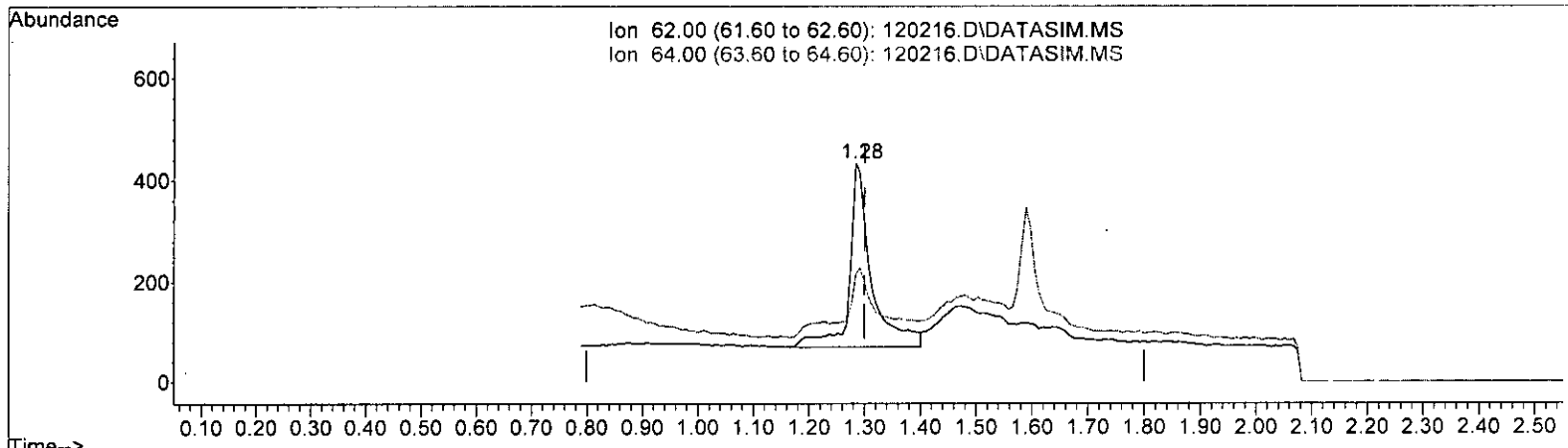
Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(6) Vinyl chloride (TMP)

1.284min (-0.016) 0.277 ppb

response 1013

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	33.61
0.00	0.00	0.00
0.00	0.00	0.00

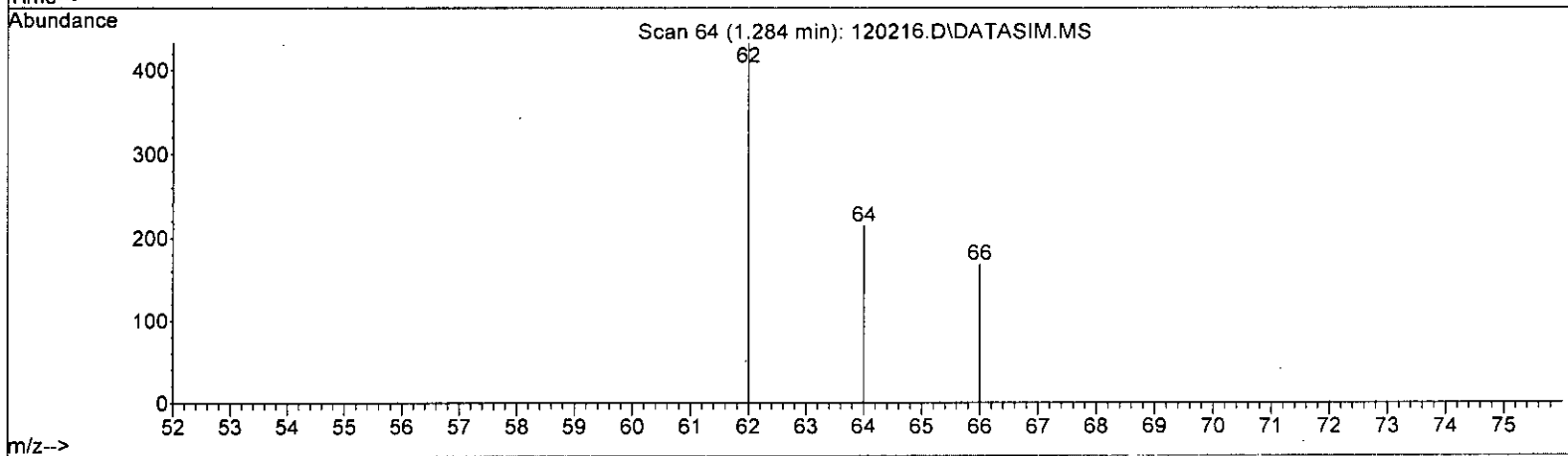
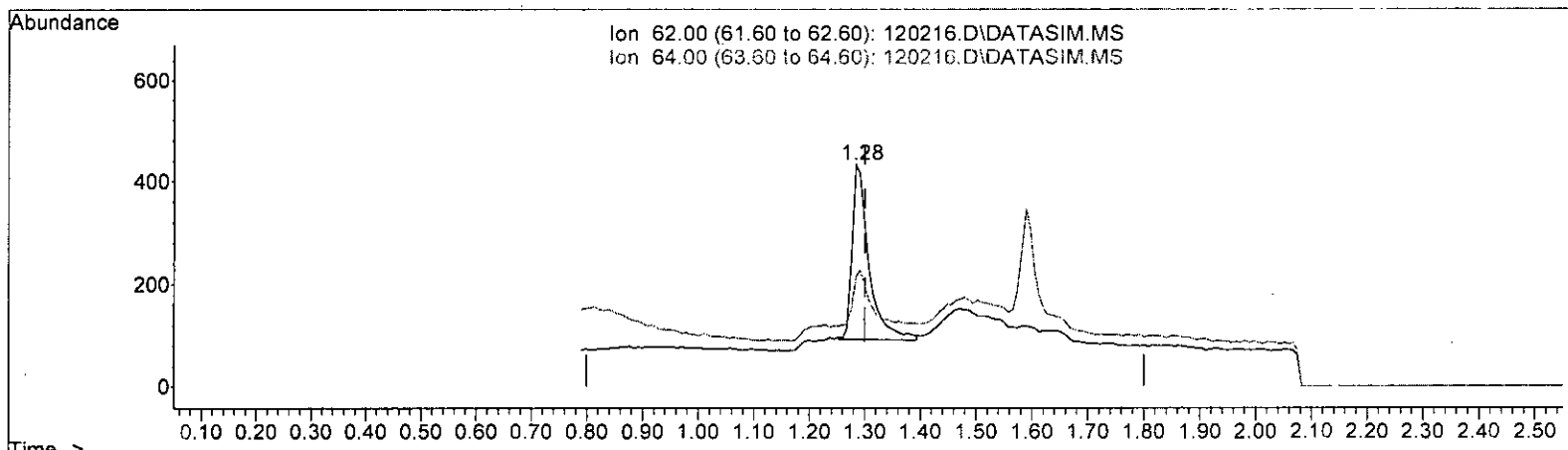
*M 125*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(6) Vinyl chloride (TMP)

1.284min (-0.016) 0.187 ppb m

response 714

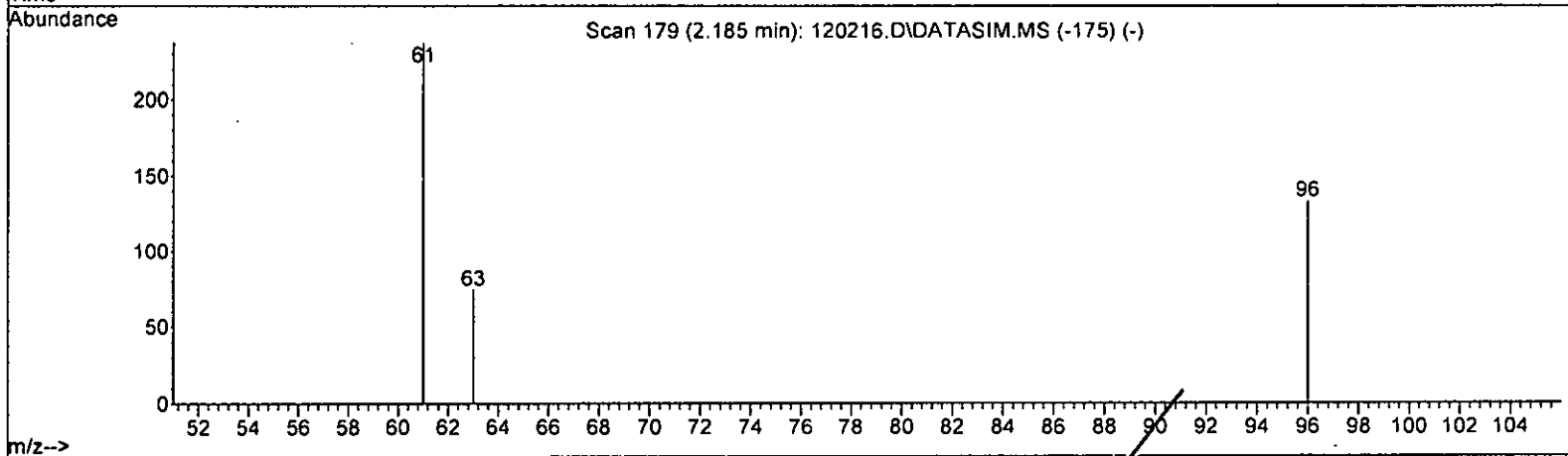
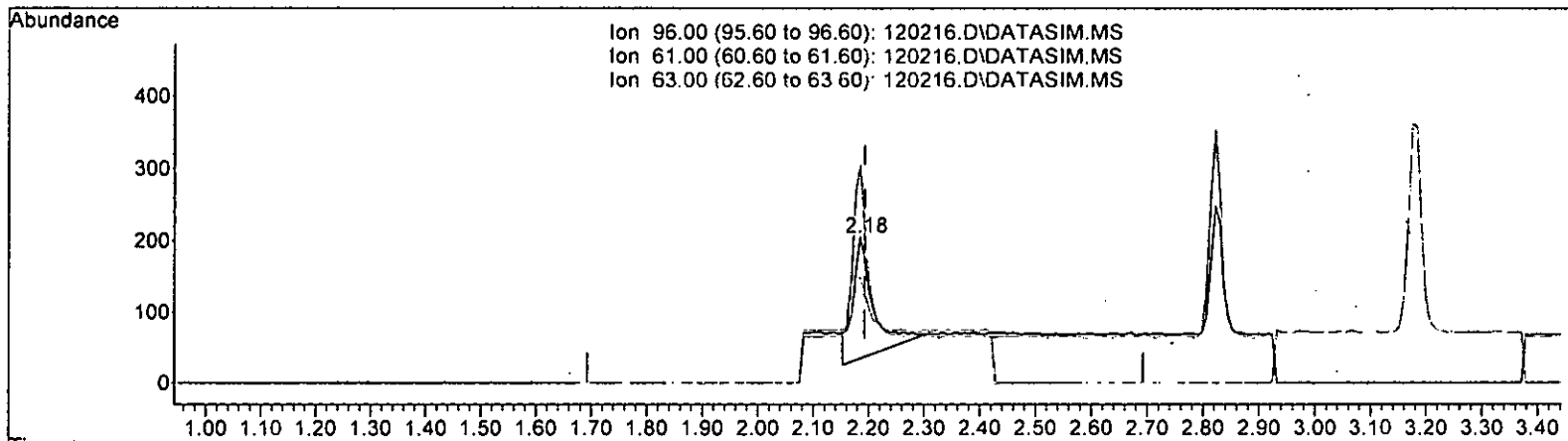
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	49.31
0.00	0.00	0.00
0.00	0.00	0.00

m 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.185min (-0.008) 0.378 ppb

response 434

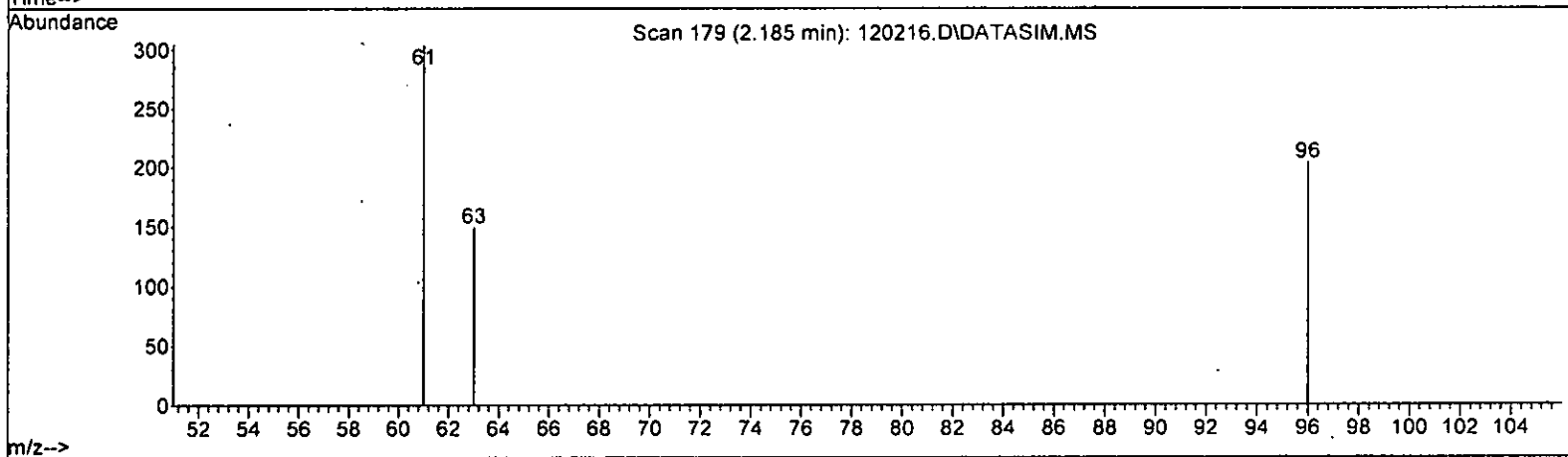
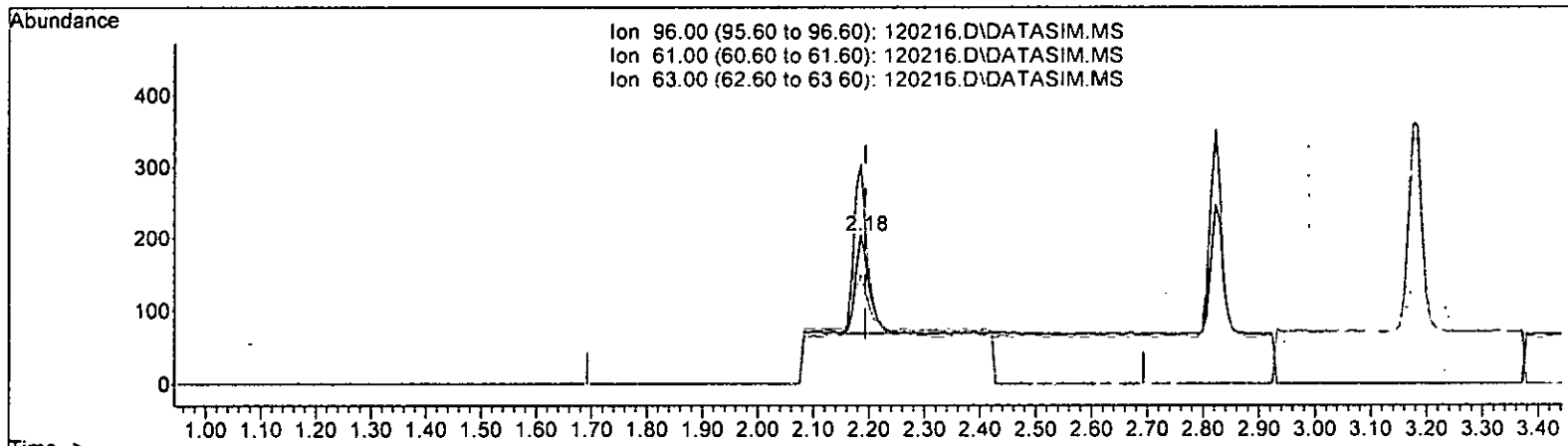
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	175.74
63.00	55.30	55.15
0.00	0.00	0.00

*Handwritten note:* m 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.185min (-0.008) 0.194 ppb m

response 233

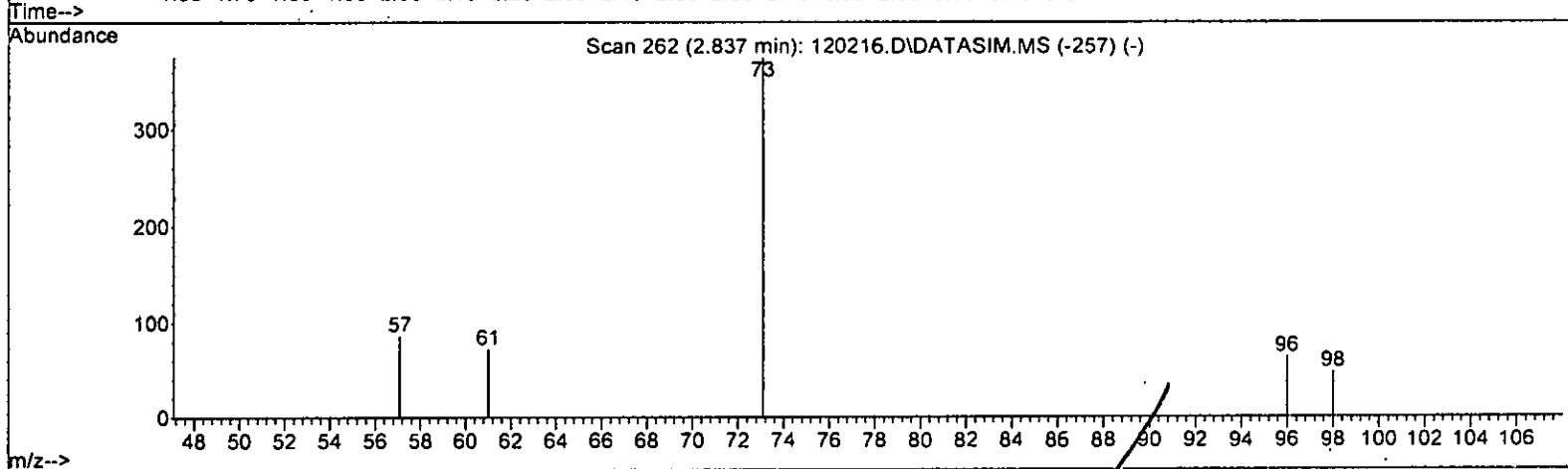
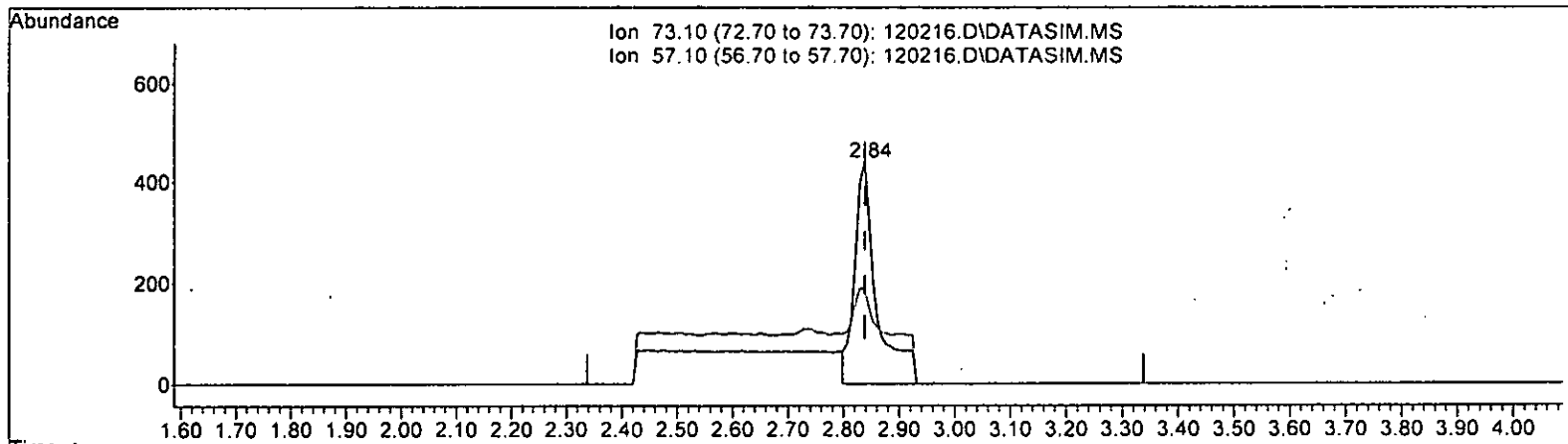
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	149.02
63.00	55.30	73.04
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 0.345 ppb

response 1190

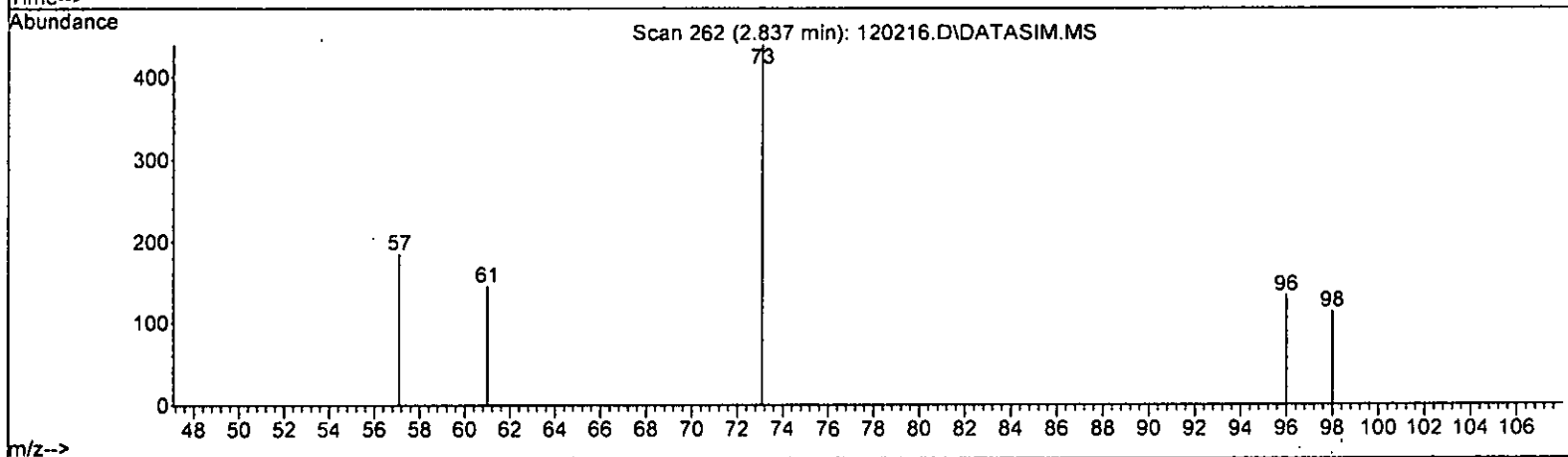
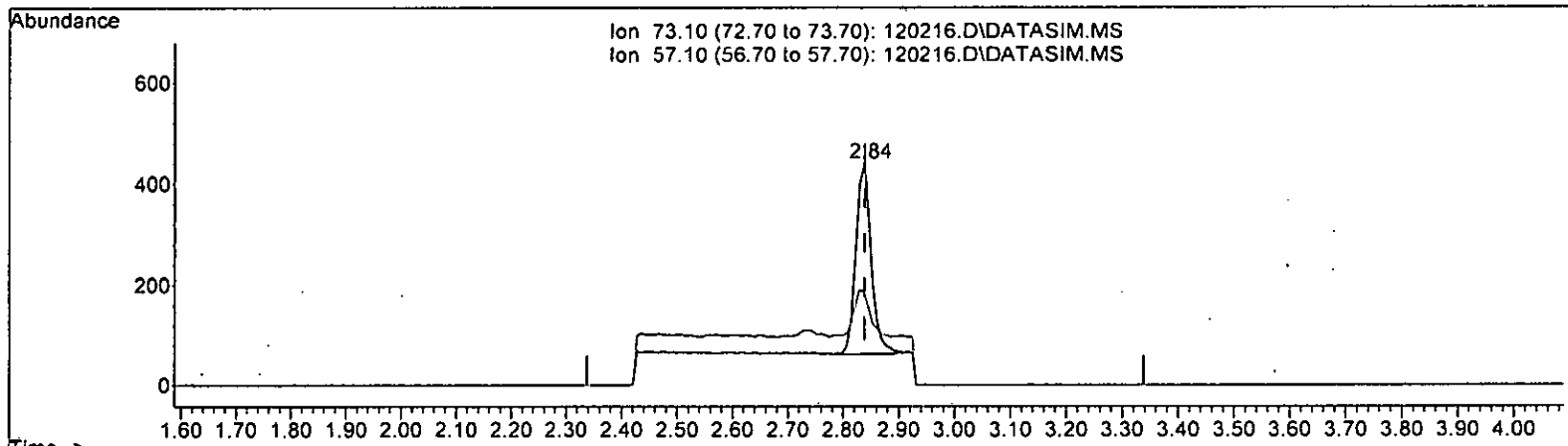
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	42.14
0.00	0.00	0.00
0.00	0.00	0.00

*M 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 0.202 ppb m

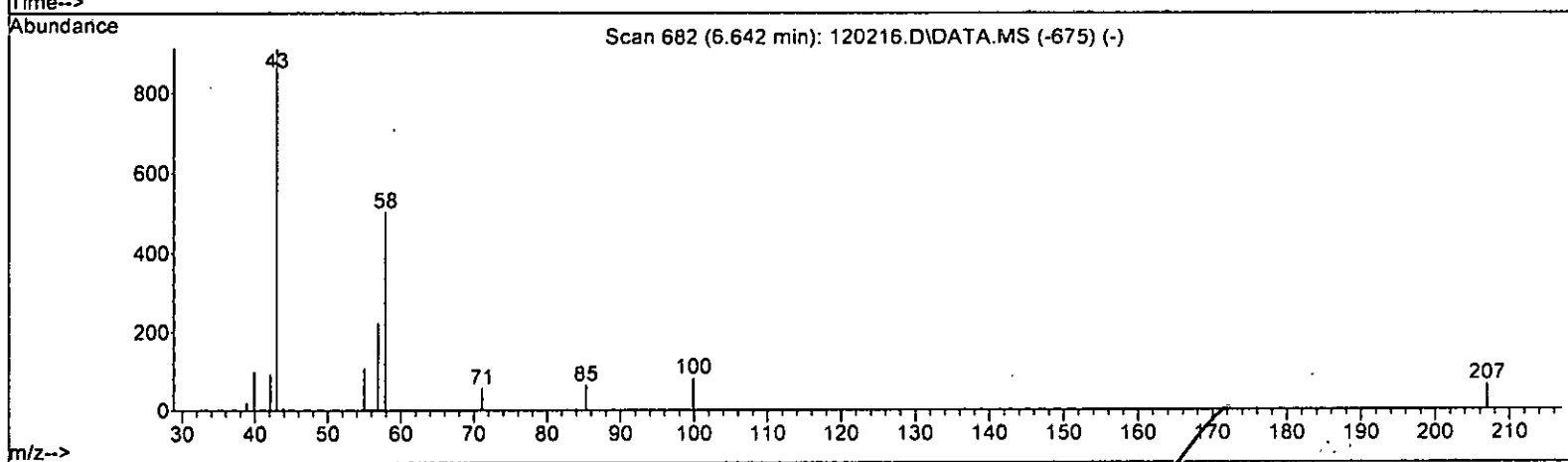
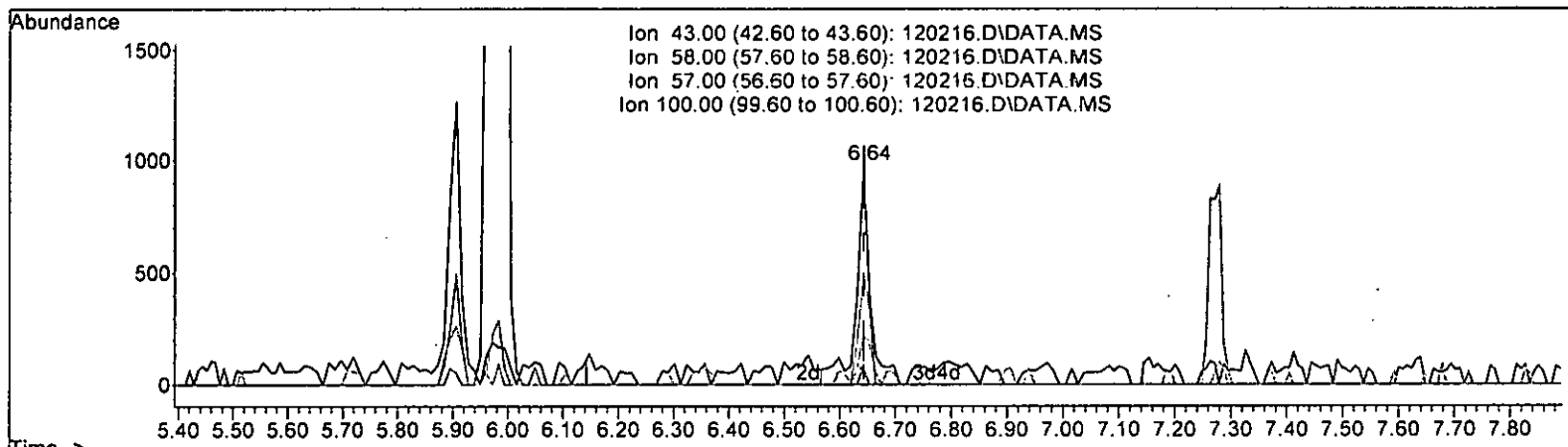
response	721	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	42.14
0.00	0.00	0.00
0.00	0.00	0.00

*M12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(43) 2-Hexanone (TMP)

6.642min (-0.001) 1.537 ppb

response 1677

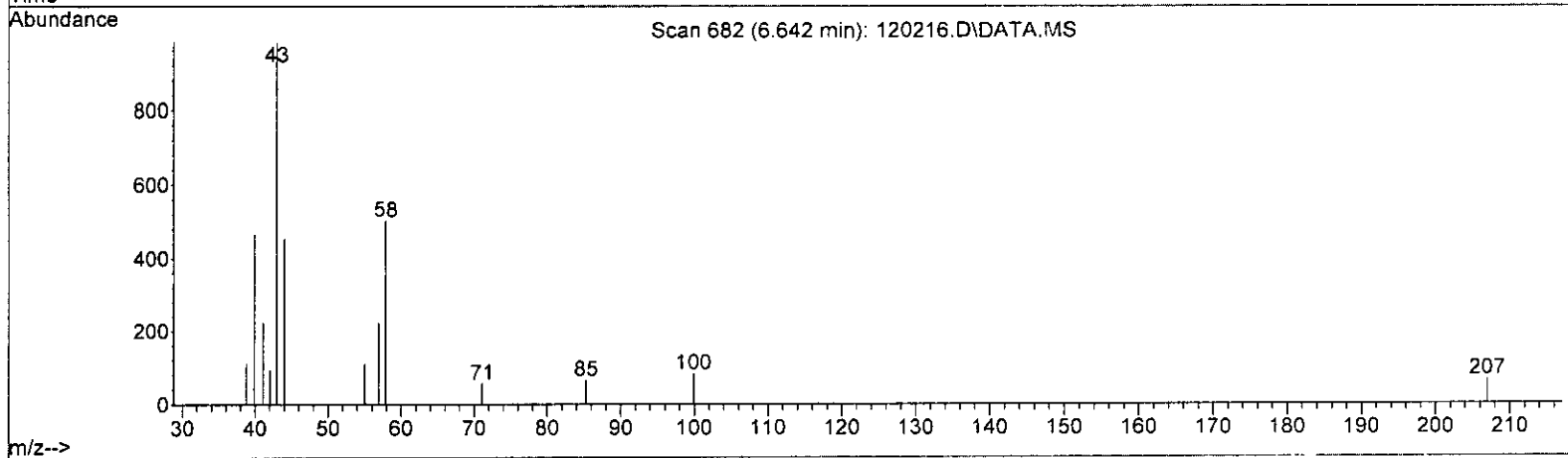
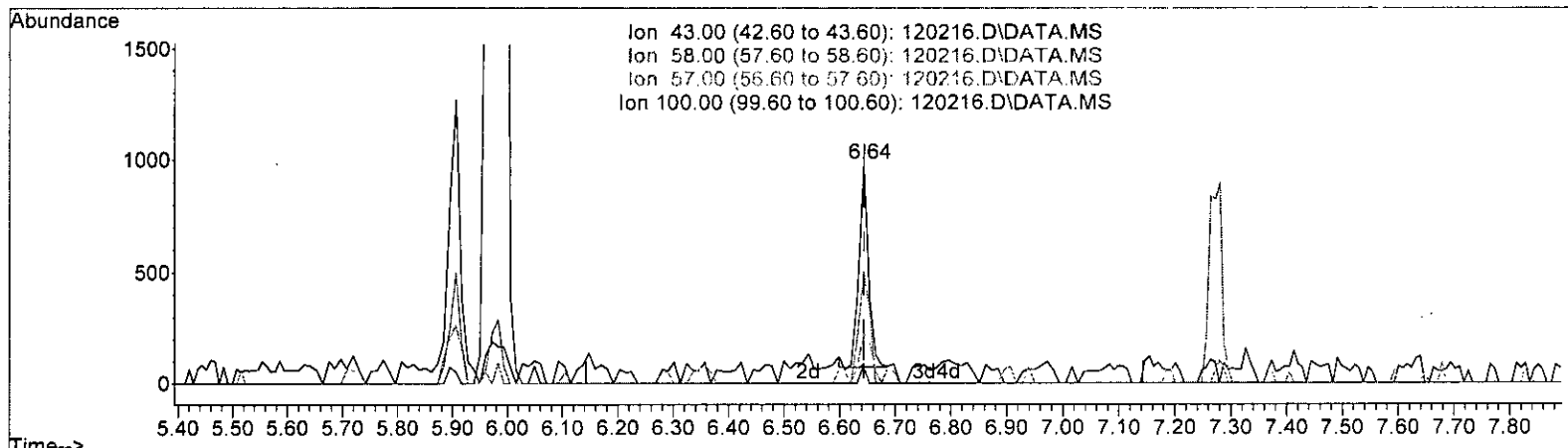
Ion	Exp%	Act%
43.00	100.00	100.00
58.00	56.00	51.07
57.00	21.00	22.53
100.00	10.90	8.26

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(43) 2-Hexanone (TMP)

6.642min (-0.001) 0.970 ppb m

response 1058

Ion	Exp%	Act%
43.00	100.00	100.00
58.00	56.00	51.07
57.00	21.00	22.53
100.00	10.90	8.26

*M 12.5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-0.02
3 S Dibromofluoromethane	10.000	10.310	-3.1	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.09#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.23#
6 TMP Vinyl chloride	0.200	0.187	6.5	102	-0.02
7 TMP Bromomethane	-1.000	-2.264	0.0	0	0.00
8 TMP Chloroethane	0.200	0.000	100.0#	0	-1.61#
9 TMP Trichlorofluoromethane	0.200	0.212	-6.0	100	-0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-0.02
11 TMP Acetone	-1.000	0.000	0.0	0	-2.27#
12 TMP 1,1-Dichloroethene	0.200	0.194	3.0	97	0.00
13 TMP Hexane	-1.000	-0.006	0.0	0	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.200	0.202	-1.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.200	0.191	4.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.200	0.267	-33.5#	100	0.00
19 TMP 1,1-Dichloroethane	0.200	0.201	-0.5	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.200	0.221	-10.5	100	0.00
21 TMP 2,2-Dichloropropane	0.200	0.167	16.5	100	-0.02
22 TMP cis-1,2-Dichloroethene	0.200	0.200	0.0	100	0.00
23 TMP Chloroform	0.200	0.214	-7.0	100	0.00
24 TMP 2-Butanone (MEK)	1.000	0.000	100.0#	0	-3.71#
25 TMP t-Amyl methyl ether (TAME)	0.200	0.230	-15.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.200	0.197	1.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.200	0.193	3.5	100	0.00
28 TMP 1,1-Dichloropropene	0.200	0.213	-6.5	100	0.00
29 TMP Carbon tetrachloride	0.200	0.218	-9.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.416	-4.2	100	0.00
31 TMP Benzene	0.200	0.199	0.5	100	0.00
32 TMP Trichloroethene	0.200	0.194	3.0	100	0.00
33 TMP 1,2-Dichloropropane	0.200	0.256	-28.0#	100	0.00
34 TMP Bromodichloromethane	0.200	0.243	-21.5#	100	0.00
35 S Toluene-d8	10.000	10.170	-1.7	100	0.00
36 TMP Dibromomethane	0.200	0.218	-9.0	100	0.00
37 TMP 4-Methyl-2-pentanone	1.000	1.201	-20.1#	100	0.00
38 TMP cis-1,3-Dichloropropene	0.200	0.217	-8.5	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.200	0.200	0.0	100	0.00
41 TMP trans-1,3-Dichloropropene	0.200	0.210	-5.0	100	0.00
42 TMP 1,1,2-Trichloroethane	0.200	0.196	2.0	100	0.00
43 TMP 2-Hexanone	-1.000	0.970	0.0	0	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.200	0.197	1.5	100	0.00
45 TMP Tetrachloroethene	0.200	0.200	0.0	100	0.00
46 TMP Dibromochloromethane	0.200	0.191	4.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.200	0.201	-0.5	100	0.00
48 TMP Chlorobenzene	0.200	0.237	-18.5	100	0.00
49 TMP Ethylbenzene	0.200	0.202	-1.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.200	0.230	-15.0	100	0.00
51 TMP m,p-Xylene	0.400	0.406	-1.5	100	0.00
52 TMP o-Xylene	0.200	0.201	-0.5	100	0.00
53 TMP Styrene	0.200	0.213	-6.5	100	0.00
54 TMP Isopropylbenzene	0.200	0.239	-19.5	100	0.00
55 TMP Bromoform	0.200	0.250	-25.0#	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.638	3.6	100	0.00
58 TMP n-Propylbenzene	0.200	0.220	-10.0	100	0.00
59 TMP Bromobenzene	0.200	0.197	1.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.200	0.246	-23.0#	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.200	0.158	21.0#	100	0.00
62 TMP 1,2,3-Trichloropropane	0.200	0.227	-13.5	100	0.00
63 TMP 2-Chlorotoluene	0.200	0.234	-17.0	100	0.00
64 TMP 4-Chlorotoluene	0.200	0.230	-15.0	100	0.00
65 TMP tert-Butylbenzene	0.200	0.219	-9.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.200	0.244	-22.0#	100	0.00
67 TMP sec-Butylbenzene	0.200	0.226	-13.0	100	0.00
68 TMP p-Isopropyltoluene	0.200	0.189	5.5	100	0.00
69 TMP 1,3-Dichlorobenzene	0.200	0.250	-25.0#	100	0.00
70 TMP 1,4-Dichlorobenzene	0.200	0.229	-14.5	100	0.00
71 TMP 1,2-Dichlorobenzene	0.200	0.173	13.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.200	0.197	1.5	100	0.00
74 TMP Hexachlorobutadiene	0.200	0.170	15.0	100	0.00
75 TMP Naphthalene	0.200	0.201	-0.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.200	0.225	-12.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-0.02
3 S Dibromofluoromethane	0.264	0.272	-3.0	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.000#	100.0#	0#	-1.09#
5 TMP Chloromethane	0.951	0.000#	100.0#	0#	-1.23#
6 TMP Vinyl chloride	0.862	0.806	6.5	102	-0.02
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	0.00
8 TMP Chloroethane	0.341	0.000#	100.0#	0#	-1.61#
9 TMP Trichlorofluoromethane	0.899	0.951	-5.8	100	-0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-0.02
11 TMP Acetone	0.031	0.000#	100.0#	0#	-2.27#
12 TMP 1,1-Dichloroethene	0.271	0.263	3.0	97	0.00
13 TMP Hexane	0.469	0.000#	100.0#	0#	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.814	-0.2	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.300	4.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	1.270	-33.3#	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.547	0.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.340	-10.7	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.527	-51.9#	100	-0.02
22 TMP cis-1,2-Dichloroethene	0.329	0.326	0.9	100	0.00
23 TMP Chloroform	0.477	0.509	-6.7	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.000#	100.0#	0#	-3.71#
25 TMP t-Amyl methyl ether (TAME)	0.739	0.848	-14.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.468	2.3	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.477	3.4	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.393	-6.8	100	0.00
29 TMP Carbon tetrachloride	0.396	0.431	-8.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	1.103	1.101	0.2	100	0.00
32 TMP Trichloroethene	0.368	0.356	3.3	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.403	-27.9#	100	0.00
34 TMP Bromodichloromethane	0.375	0.456	-21.6#	100	0.00
35 S Toluene-d8	0.975	0.992	-1.7	100	0.00
36 TMP Dibromomethane	0.181	0.198	-9.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.065	-20.4#	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.480	-8.4	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.979	0.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.533	-4.9	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.303	-6.3	100	0.00
43 TMP 2-Hexanone	0.312	0.000#	100.0#	0#	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.1Smin  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.477	1.4	100	0.00
45 TMP Tetrachloroethene	0.420	0.415	1.2	100	0.00
46 TMP Dibromochloromethane	0.366	0.350	4.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.378	0.3	100	0.00
48 TMP Chlorobenzene	0.957	1.136	-18.7	100	0.00
49 TMP Ethylbenzene	1.885	1.887	-0.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.411	-14.8	100	0.00
51 TMP m,p-Xylene	0.705	0.709	-0.6	100	0.00
52 TMP o-Xylene	0.683	0.681	0.3	100	0.00
53 TMP Styrene	1.004	1.071	-6.7	100	0.00
54 TMP Isopropylbenzene	1.606	1.922	-19.7	100	0.00
55 TMP Bromoform	0.269	0.337	-25.3#	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.833	3.6	100	0.00
58 TMP n-Propylbenzene	3.386	3.728	-10.1	100	0.00
59 TMP Bromobenzene	0.790	0.777	1.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	3.057	-23.2#	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.580	20.9#	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.678	-13.2	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.399	-16.8	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.713	-15.2	100	0.00
65 TMP tert-Butylbenzene	2.194	2.399	-9.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	3.146	-22.2#	100	0.00
67 TMP sec-Butylbenzene	3.160	3.571	-13.0	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.554	5.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.840	-25.3#	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.713	-14.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.177	13.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.000#	100.0#	0#	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.978	0.962	1.6	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.438	15.1	100	0.00
75 TMP Naphthalene	2.401	2.414	-0.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.997	-12.7	100	0.00

(#) = Out of Range

SPCC's out = 12 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	44274	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35020	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19757	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	12030	10.310	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.10%	
30) 1,2-Dichloroethane-d4	4.35	102	2749	10.416	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	104.20%	
35) Toluene-d8	5.98	98	43922	10.170	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	101.70%	
57) 4-Bromofluorobenzene	8.38	95	16453	9.638	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	96.40%	
Target Compounds						
2) Ethanol	1.85	45	86	No Calib		
4) Dichlorodifluoromethane	0.00		0	N.D. d		
5) Chloromethane	0.00		0	N.D. d		
6] Vinyl chloride	1.28	62	714m	0.187 ppb		
7) Bromomethane	1.54	94	557	Below Cal #	35	
8) Chloroethane	0.00		0	N.D. d		
9) Trichlorofluoromethane	1.76	101	842	0.212 ppb		88
10) 2-Propanol	2.39	45	352	No Calib		
11) Acetone	0.00		0	N.D. d		
12] 1,1-Dichloroethene	2.18	96	233m	0.194 ppb		
13) Hexane	3.05	57	587	Below Cal		76
14) Methylene chloride	0.00		0	N.D. d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D. d		
16] Methyl t-butyl ether (...)	2.84	73	721m	0.202 ppb		
17] trans-1,2-Dichloroethene	2.82	96	266	0.191 ppb		88
18) Diisopropyl ether (DIPE)	3.24	45	1125	0.267 ppb		85
19] 1,1-Dichloroethane	3.17	63	484	0.201 ppb		95
20) Ethyl t-butyl ether (E...)	3.55	87	301	0.221 ppb #		82
21) 2,2-Dichloropropane	3.65	77	467	0.167 ppb		74
22] cis-1,2-Dichloroethene	3.67	96	289	0.200 ppb		93
23) Chloroform	3.94	83	451	0.214 ppb #		59
24) 2-Butanone (MEK)	0.00		0	N.D. d		
25) t-Amyl methyl ether (T...)	4.49	73	751	0.230 ppb		88
26] 1,2-Dichloroethane (EDC)	4.41	62	414	0.197 ppb		97
27] 1,1,1-Trichloroethane	4.08	97	422	0.193 ppb		98
28) 1,1-Dichloropropene	4.22	75	348	0.213 ppb #		45
29) Carbon tetrachloride	4.21	117	382	0.218 ppb #		58
31] Benzene	4.38	78	975	0.199 ppb		99
32] Trichloroethene	4.93	95	315	0.194 ppb		97
33) 1,2-Dichloropropane	5.13	63	357	0.256 ppb #		100
34) Bromodichloromethane	5.37	83	404	0.243 ppb		81
36) Dibromomethane	5.23	93	175	0.218 ppb		97

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

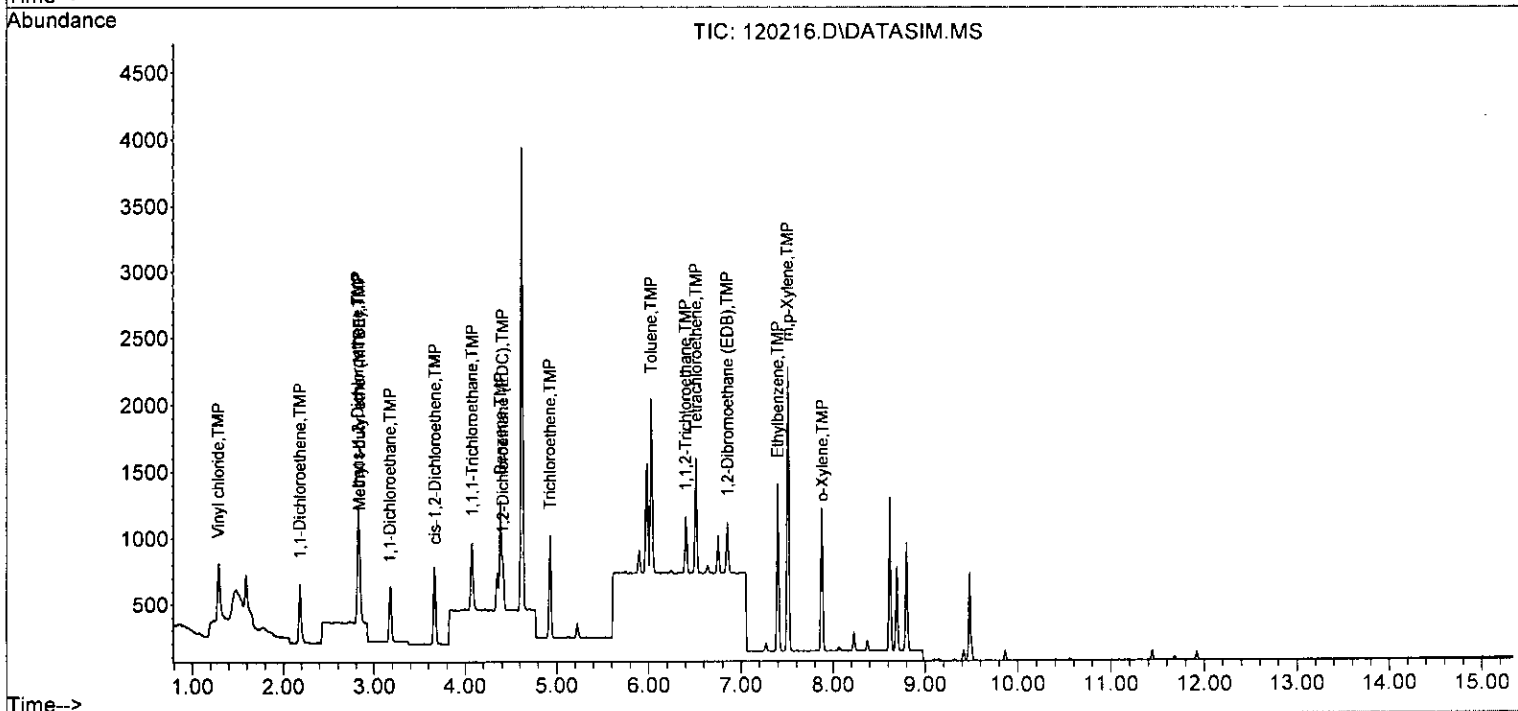
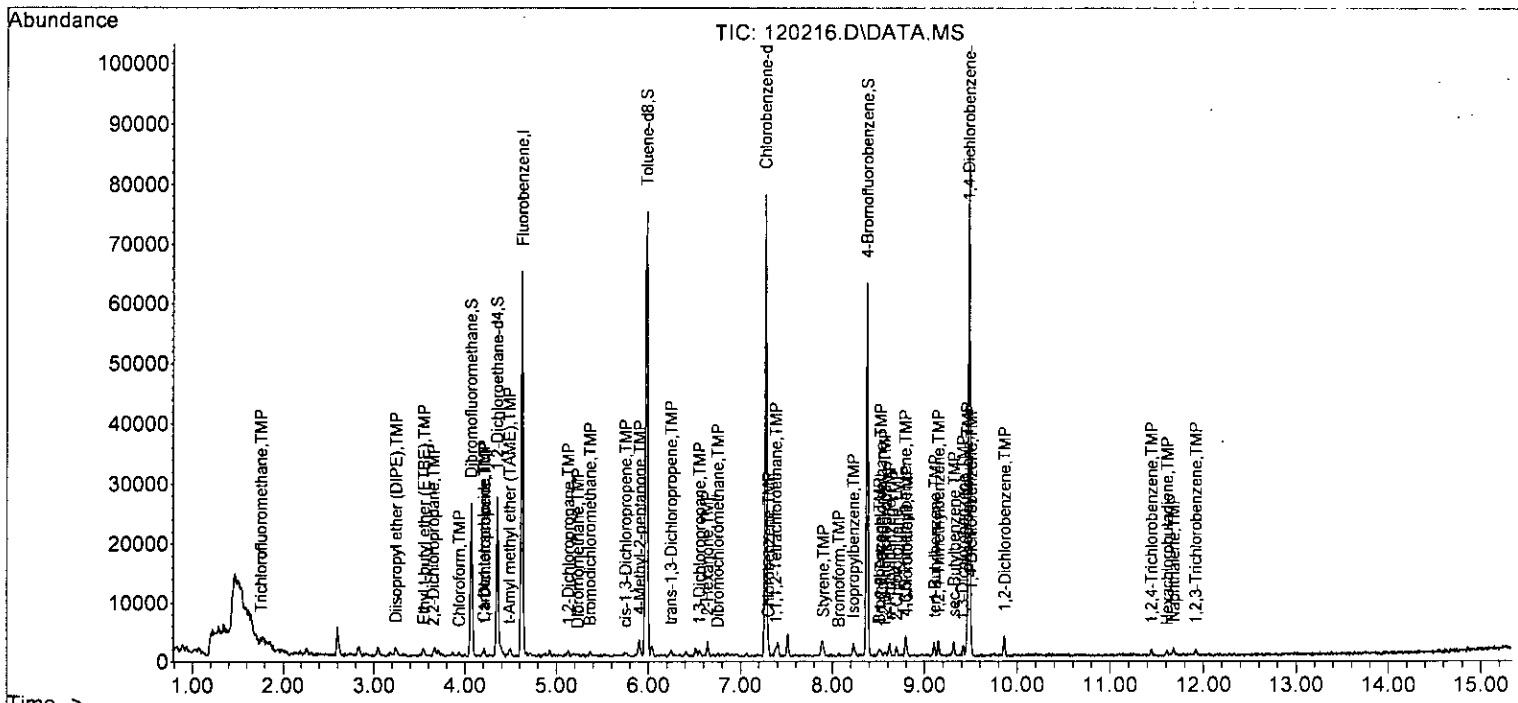
Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	288	1.201	ppb	# 62
38) cis-1,3-Dichloropropene	5.75	75	425	0.217	ppb	75
40] Toluene	6.03	92	686	0.200	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	373	0.210	ppb	# 59
42] 1,1,2-Trichloroethane	6.40	83	212	0.196	ppb	98
43) 2-Hexanone	6.64	43	1058m	0.970	ppb	
44) 1,3-Dichloropropane	6.55	76	334	0.197	ppb	79
45] Tetrachloroethene	6.51	164	291	0.200	ppb	98
46) Dibromochloromethane	6.75	129	245	0.191	ppb	82
47] 1,2-Dibromoethane (EDB)	6.85	107	265	0.201	ppb	95
48) Chlorobenzene	7.30	112	796	0.237	ppb	91
49] Ethylbenzene	7.40	91	1322	0.202	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	288	0.230	ppb	81
51] m,p-Xylene	7.51	106	993	0.406	ppb	100
52] o-Xylene	7.88	106	477	0.201	ppb	99
53) Styrene	7.90	104	750	0.213	ppb	79
54) Isopropylbenzene	8.23	105	1346	0.239	ppb	96
55) Bromoform	8.07	173	236	0.250	ppb	# 33
58) n-Propylbenzene	8.63	91	1473	0.220	ppb	92
59) Bromobenzene	8.51	156	307	0.197	ppb	81
60) 1,3,5-Trimethylbenzene	8.79	105	1208	0.246	ppb	77
61) 1,1,2,2-Tetrachloroethane	8.52	83	229	0.158	ppb	84
62) 1,2,3-Trichloropropane	8.57	75	268	0.227	ppb	68
63) 2-Chlorotoluene	8.70	91	948	0.234	ppb	76
64) 4-Chlorotoluene	8.81	91	1072	0.230	ppb	93
65) tert-Butylbenzene	9.11	119	948	0.219	ppb	74
66) 1,2,4-Trimethylbenzene	9.15	105	1243	0.244	ppb	84
67) sec-Butylbenzene	9.32	105	1411	0.226	ppb	91
68) p-Isopropyltoluene	9.46	119	1009	0.189	ppb	80
69) 1,3-Dichlorobenzene	9.41	146	727	0.250	ppb	94
70) 1,4-Dichlorobenzene	9.50	146	677	0.229	ppb	91
71) 1,2-Dichlorobenzene	9.86	146	465	0.173	ppb	89
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	11.44	180	380	0.197	ppb	# 59
74) Hexachlorobutadiene	11.61	225	173	0.170	ppb	94
75) Naphthalene	11.68	128	954	0.201	ppb	86
76) 1,2,3-Trichlorobenzene	11.92	180	394	0.225	ppb	# 73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

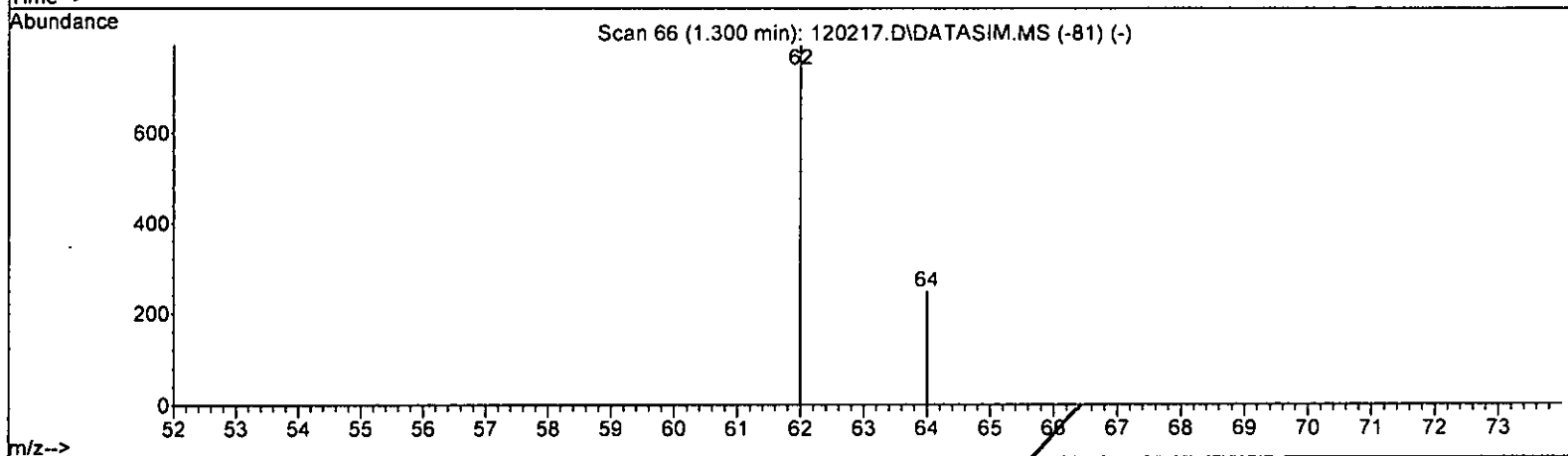
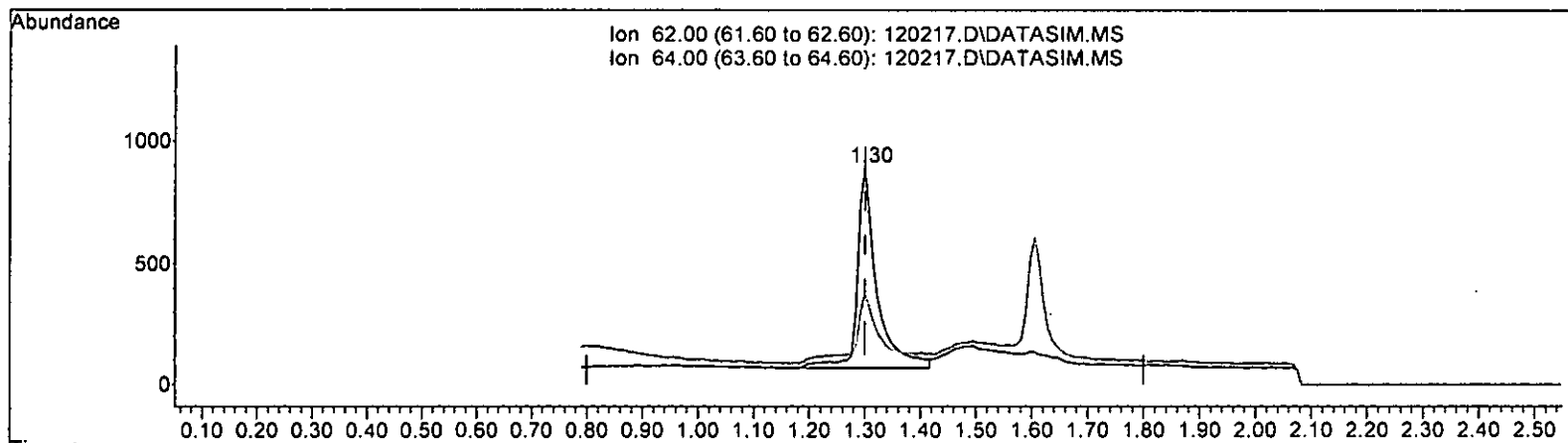
Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq Dn : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(6) Vinyl chloride (TMP)  
 1.300min (-0.000) 0.563 ppb

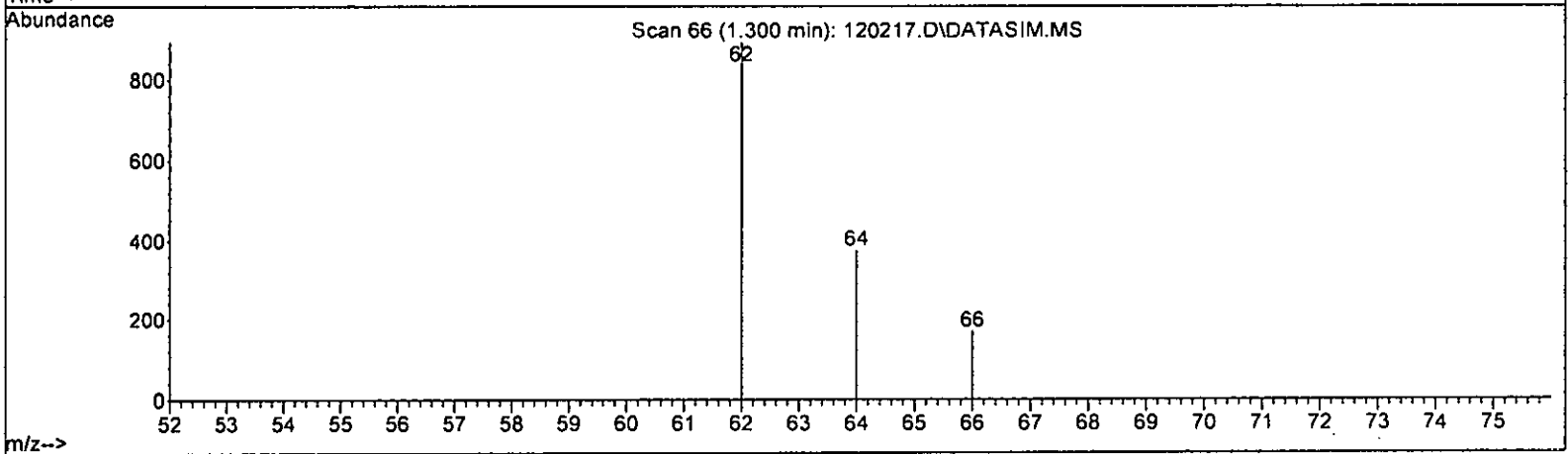
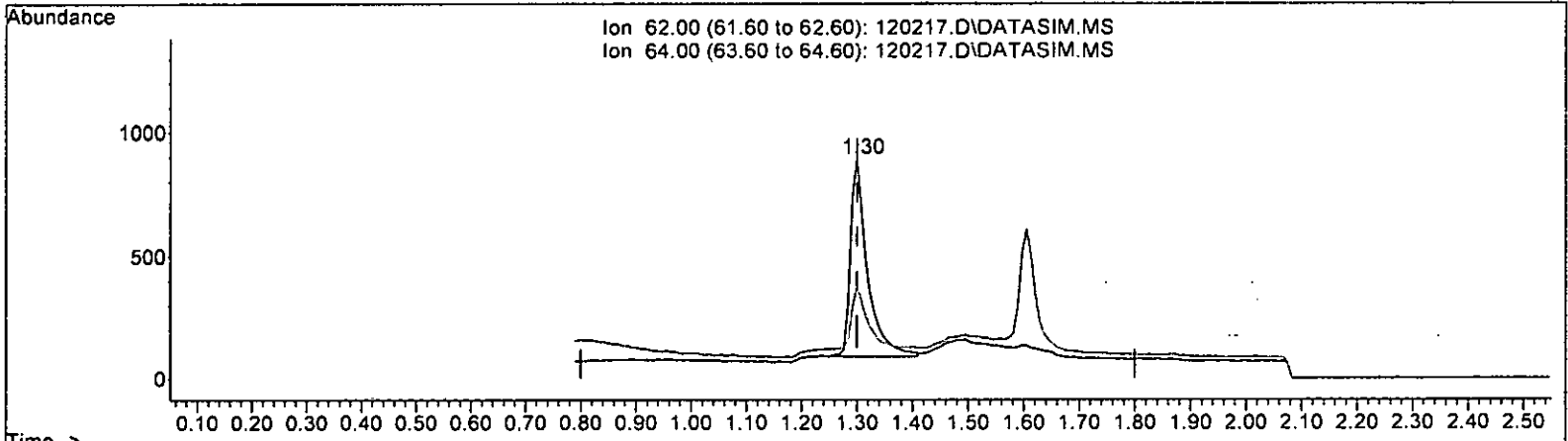
response	2014	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	34.79
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.9*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 0.468 ppb m

response 1692

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	41.99
0.00	0.00	0.00
0.00	0.00	0.00

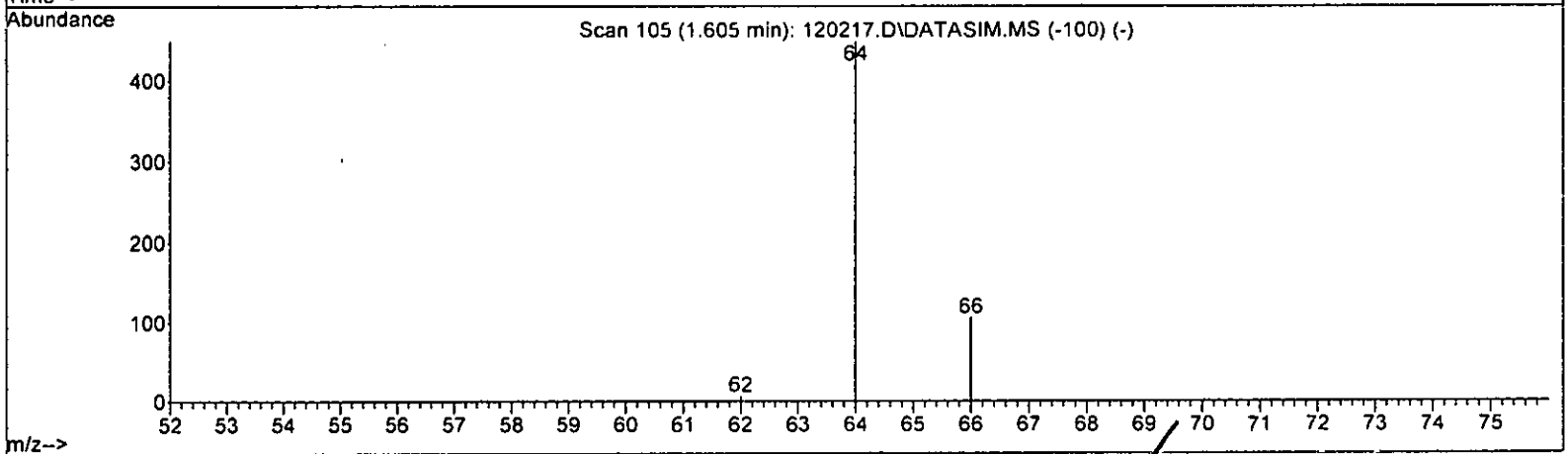
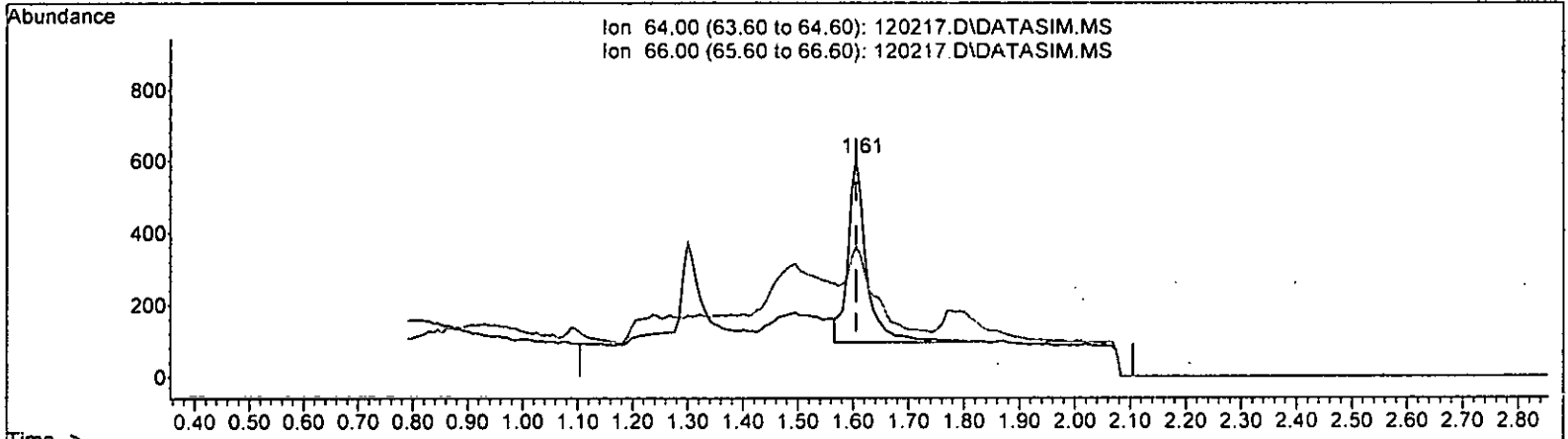
M 12.5



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(8) Chloroethane (TMP)

1.605min (+ 0.000) 0.689 ppb

response 1165

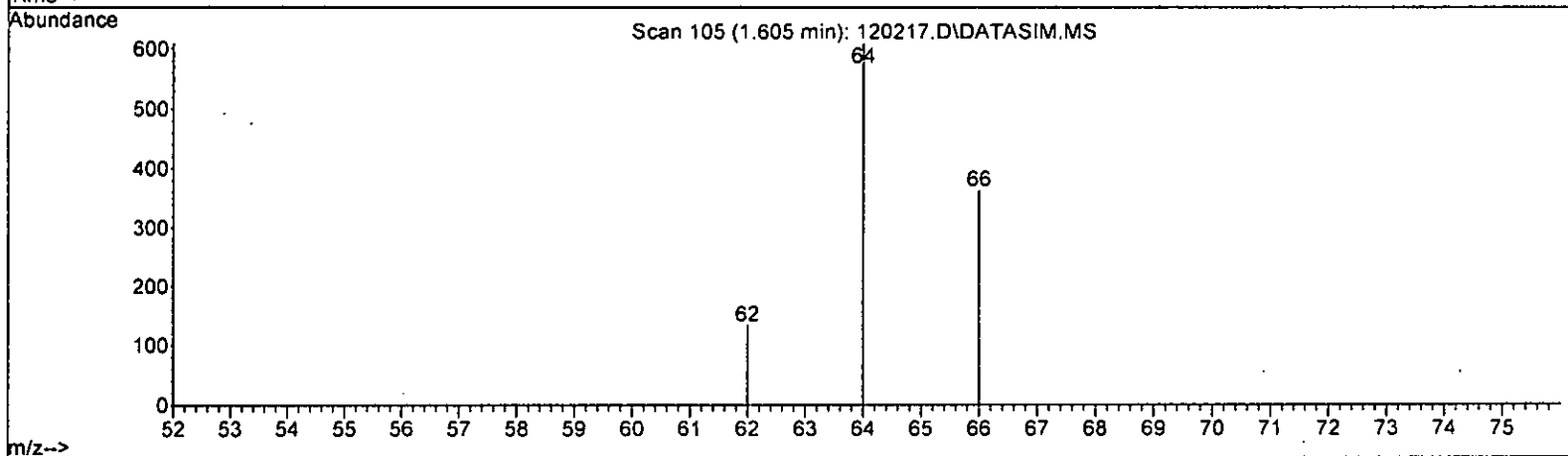
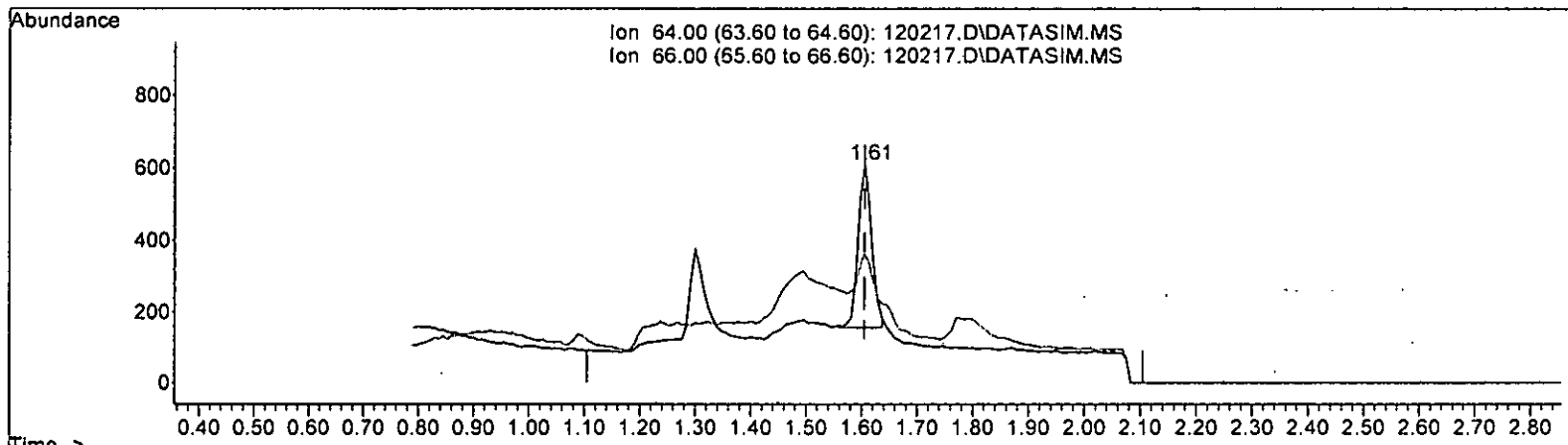
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	38.21
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(8) Chloroethane (TMP)

1.605min (+ 0.000) 0.422 ppb m

response 763

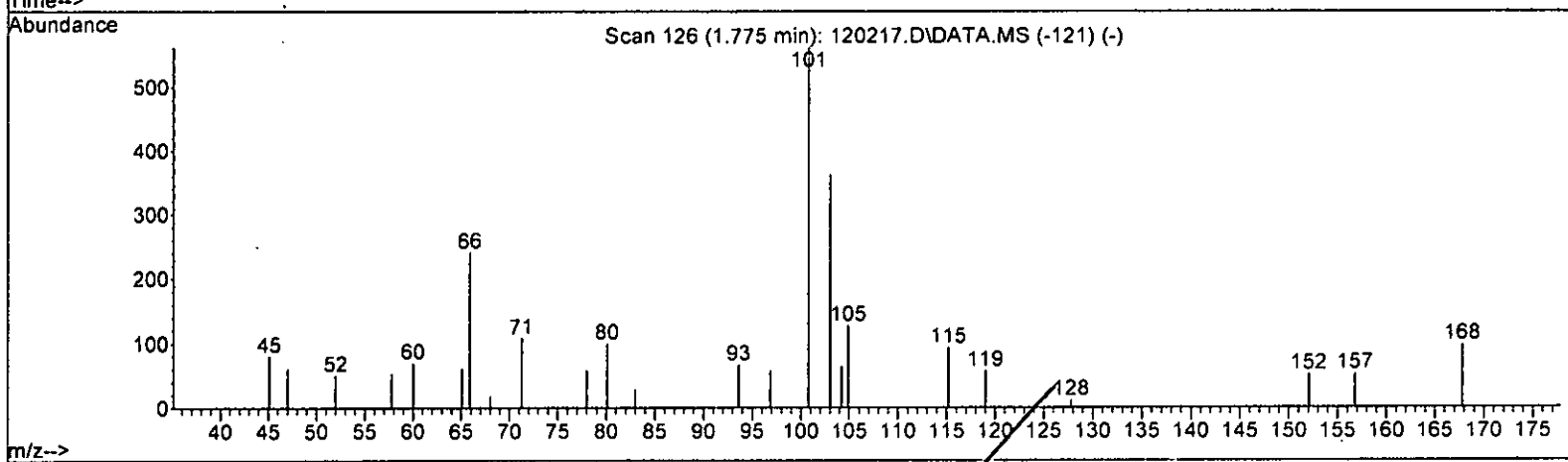
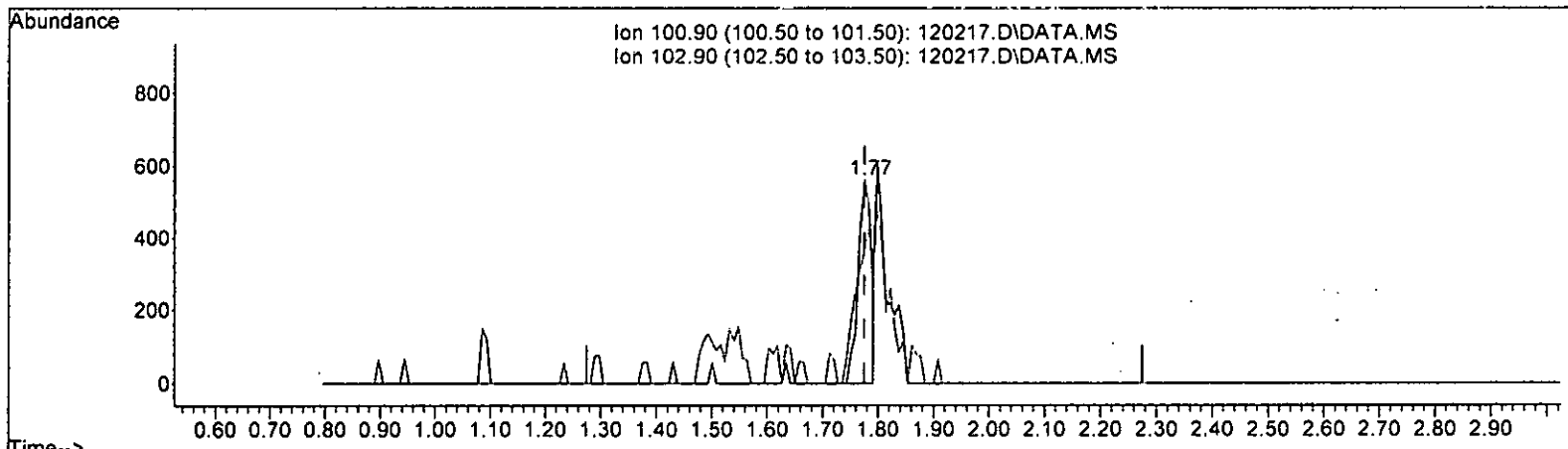
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	59.54
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.775min (-0.000) 0.228 ppb

response 934

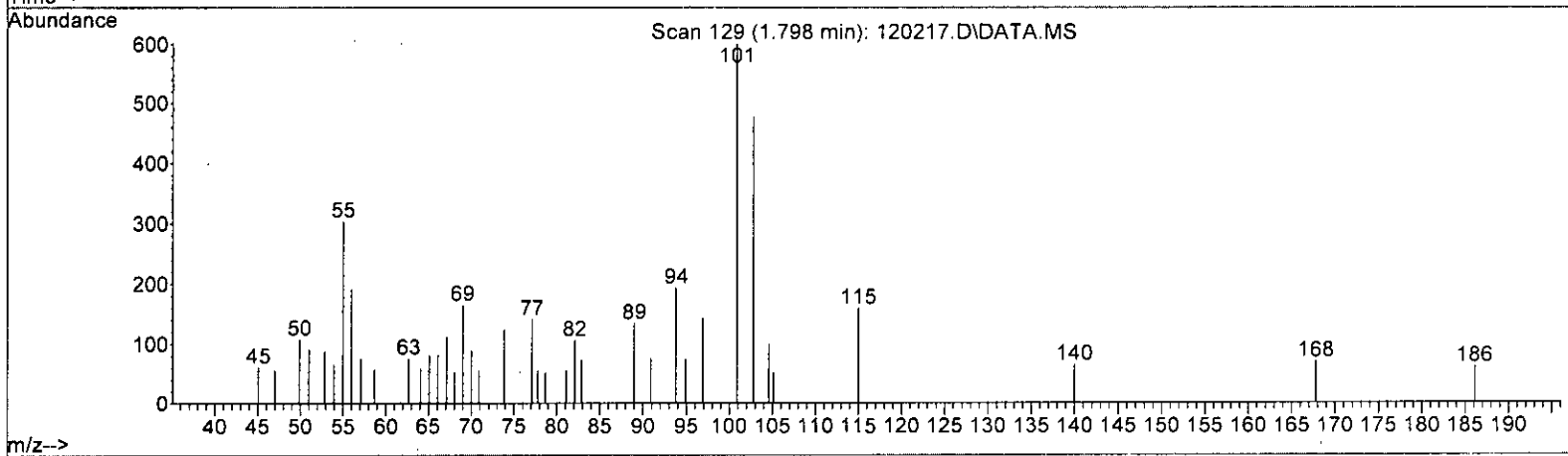
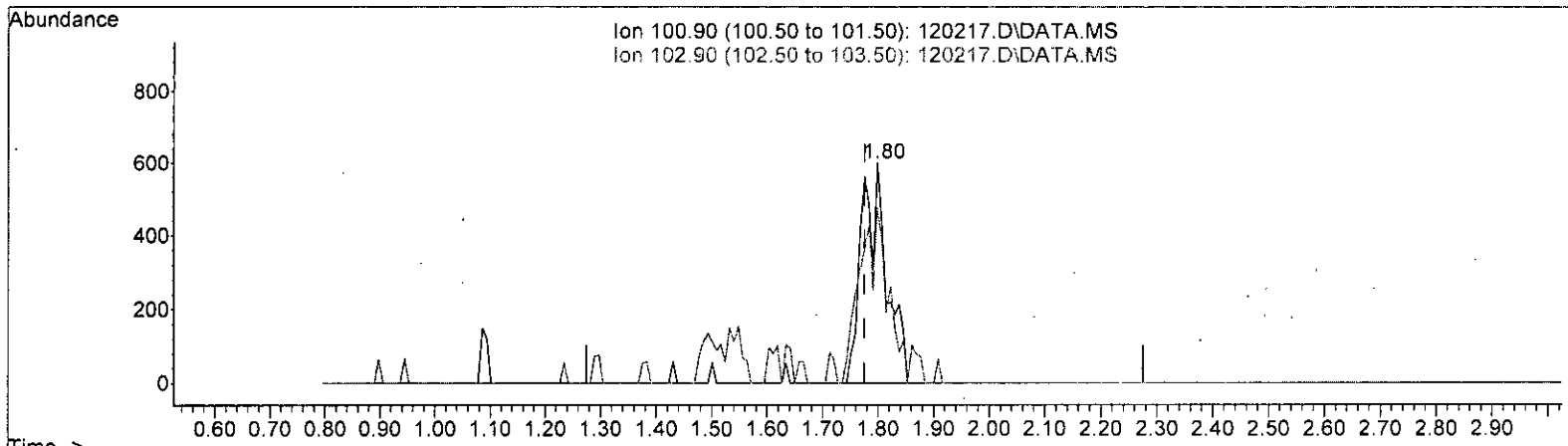
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.53
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.798min (+ 0.023) 0.458 ppb m

response 1877

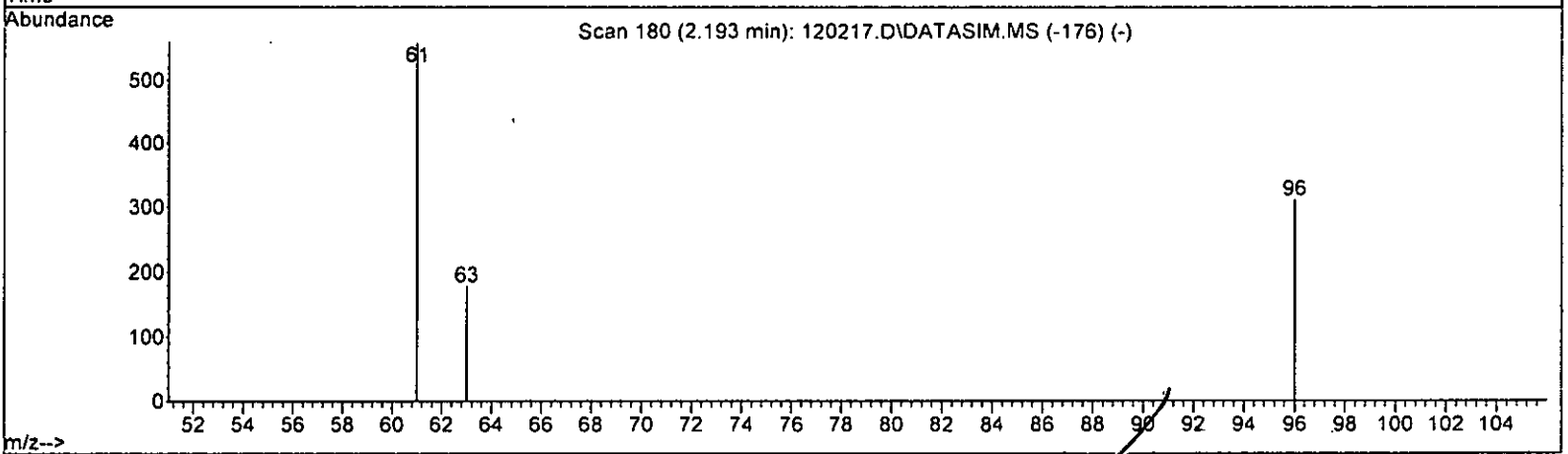
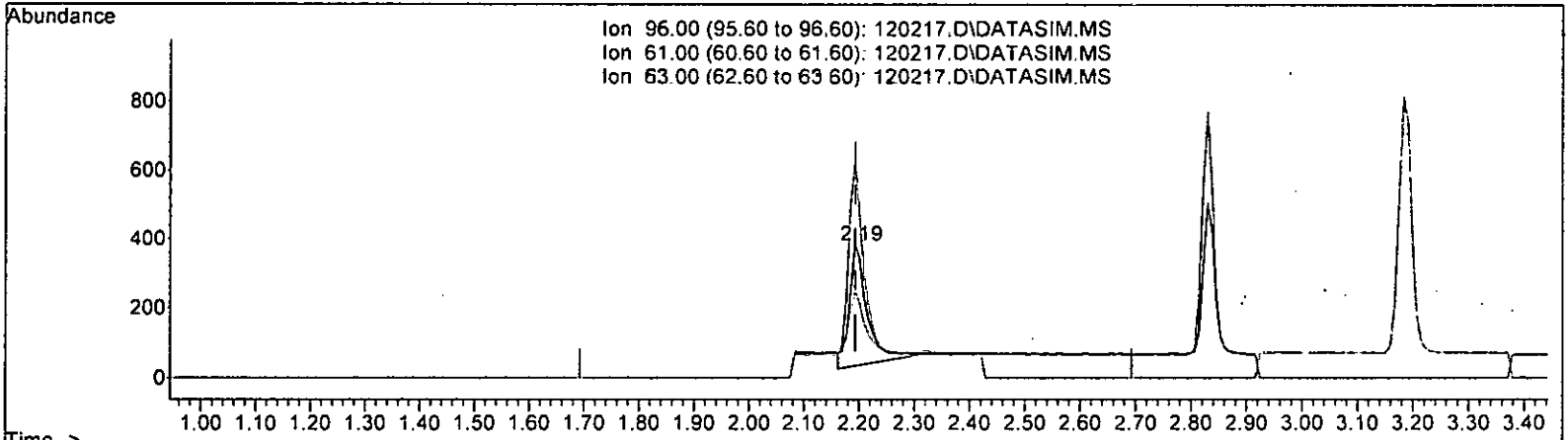
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	79.37#
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 0.674 ppb

response 780

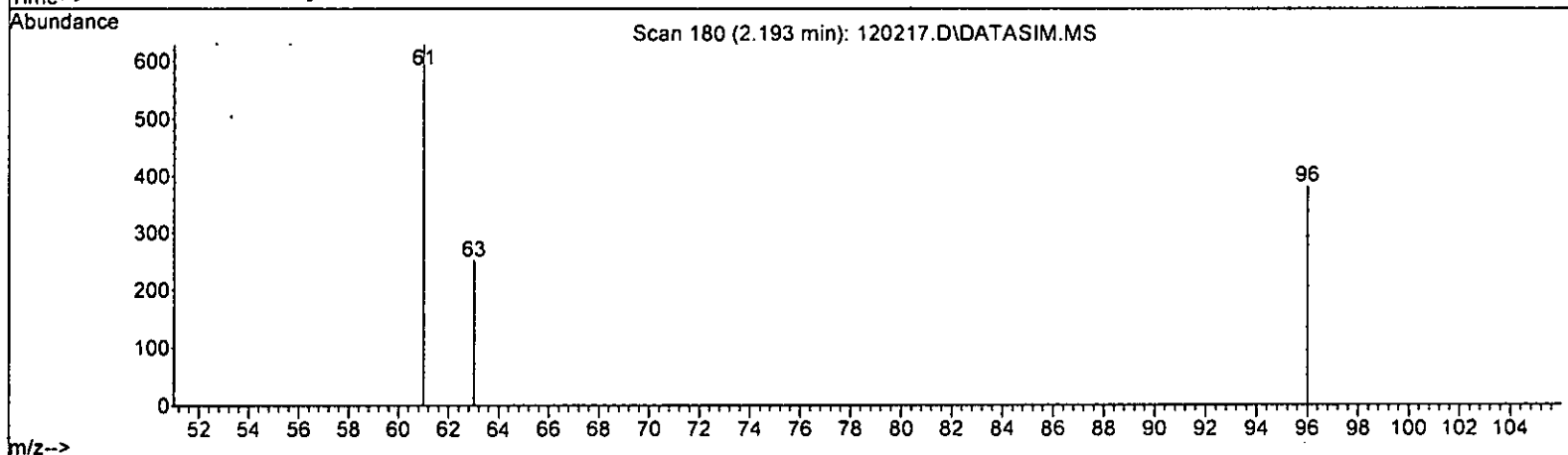
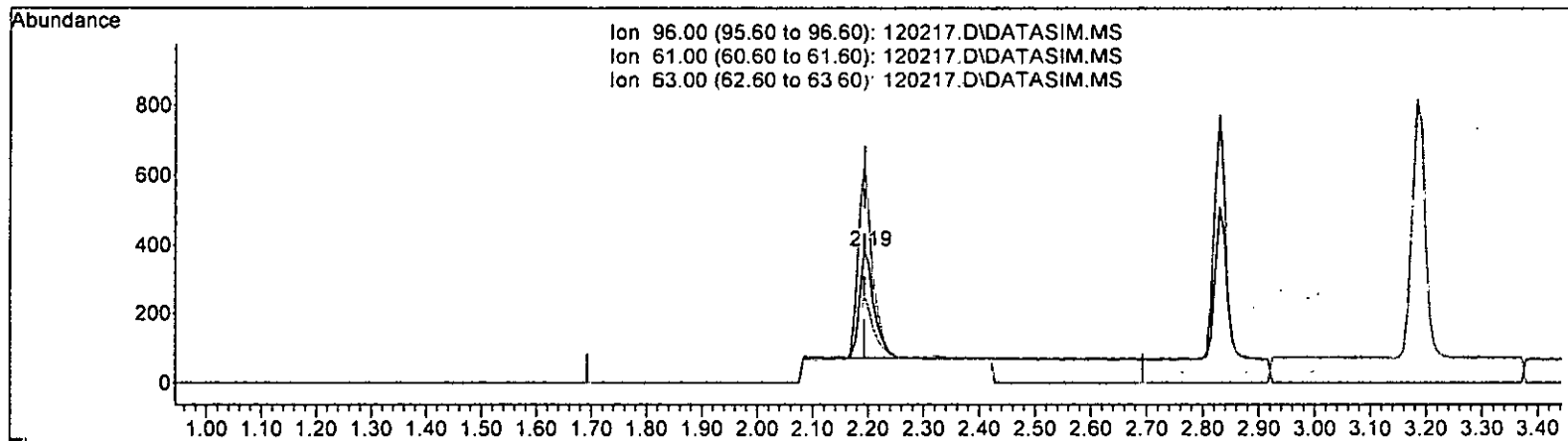
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	179.23#
63.00	55.30	56.55
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 0.486 ppb m

response 569

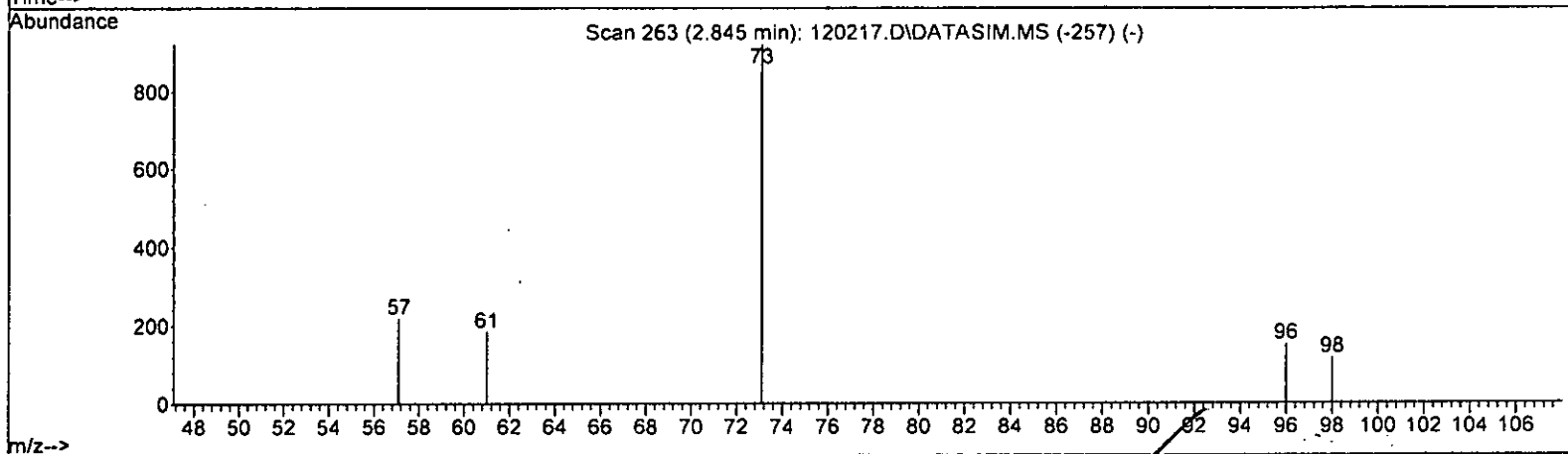
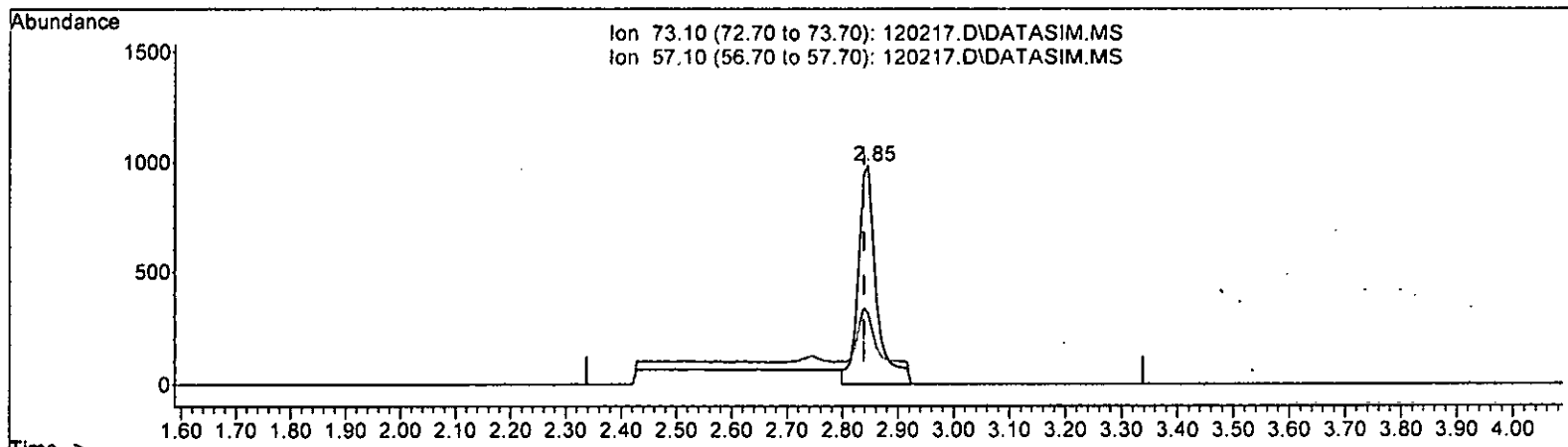
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	164.14
63.00	55.30	65.71
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.007) 0.638 ppb

response 2213

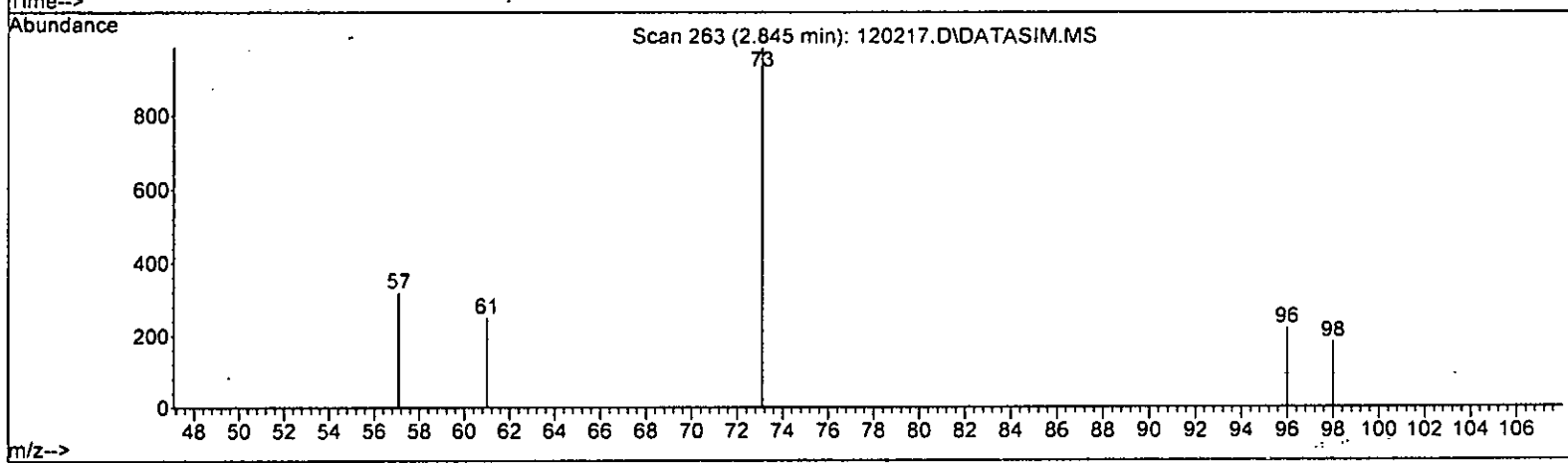
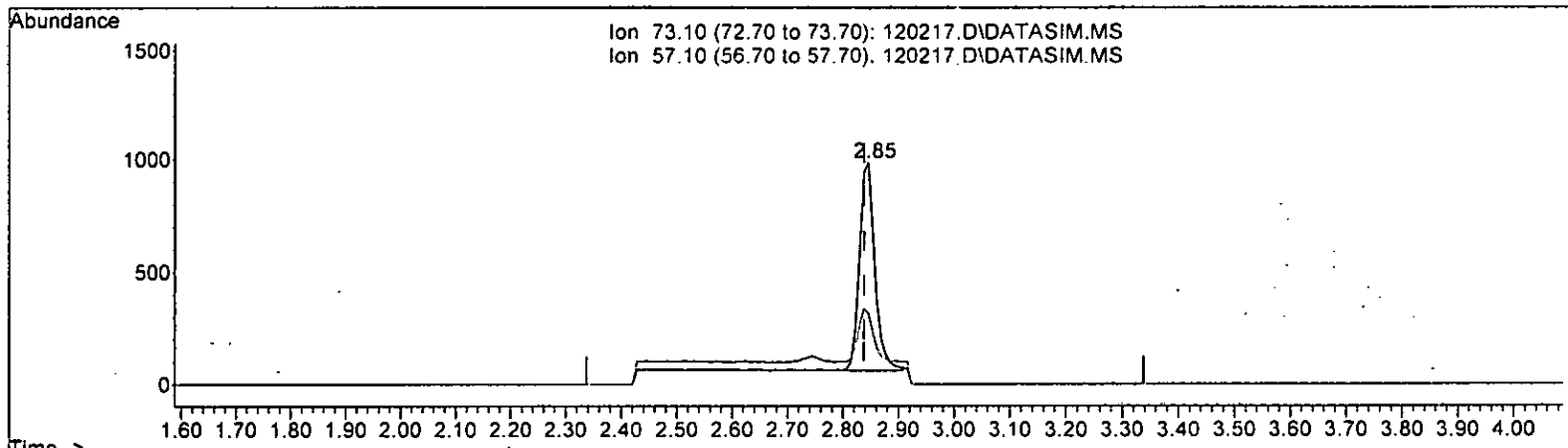
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	32.25
0.00	0.00	0.00
0.00	0.00	0.00

*m 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.007) 0.507 ppb m

response 1771

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	32.25
0.00	0.00	0.00
0.00	0.00	0.00

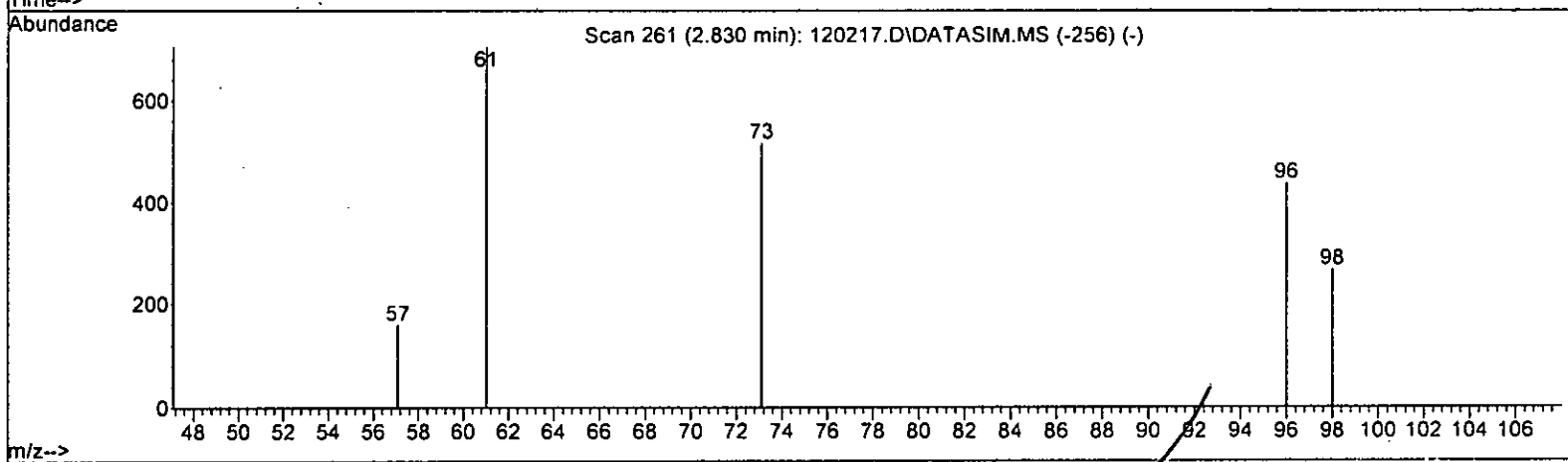
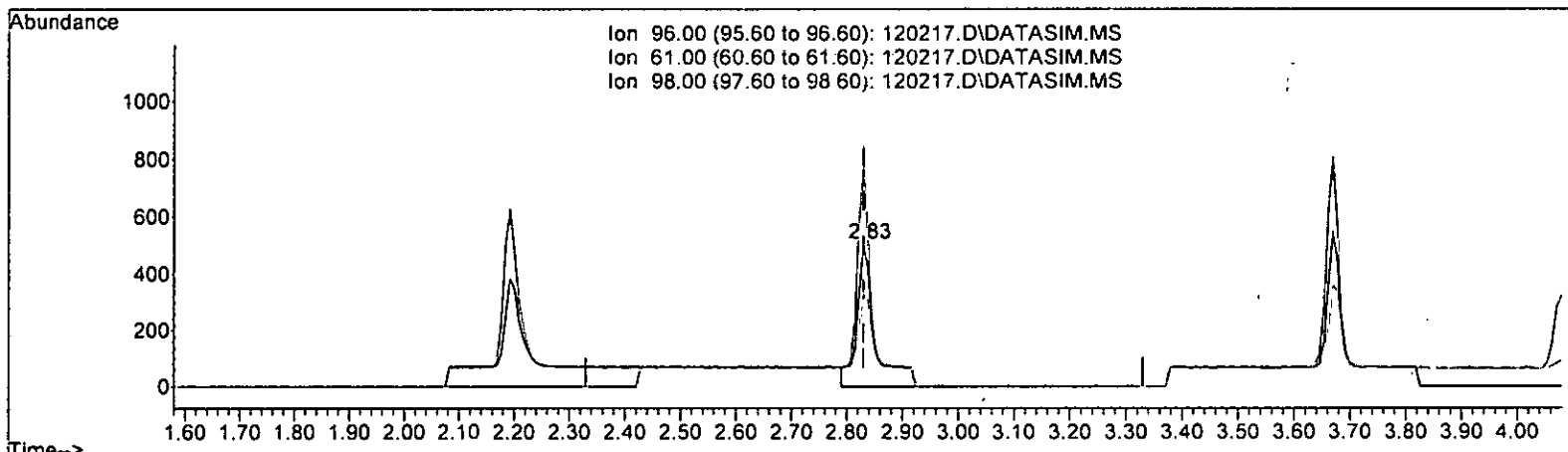
*LM 12.5*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 0.915 ppb

response 1153

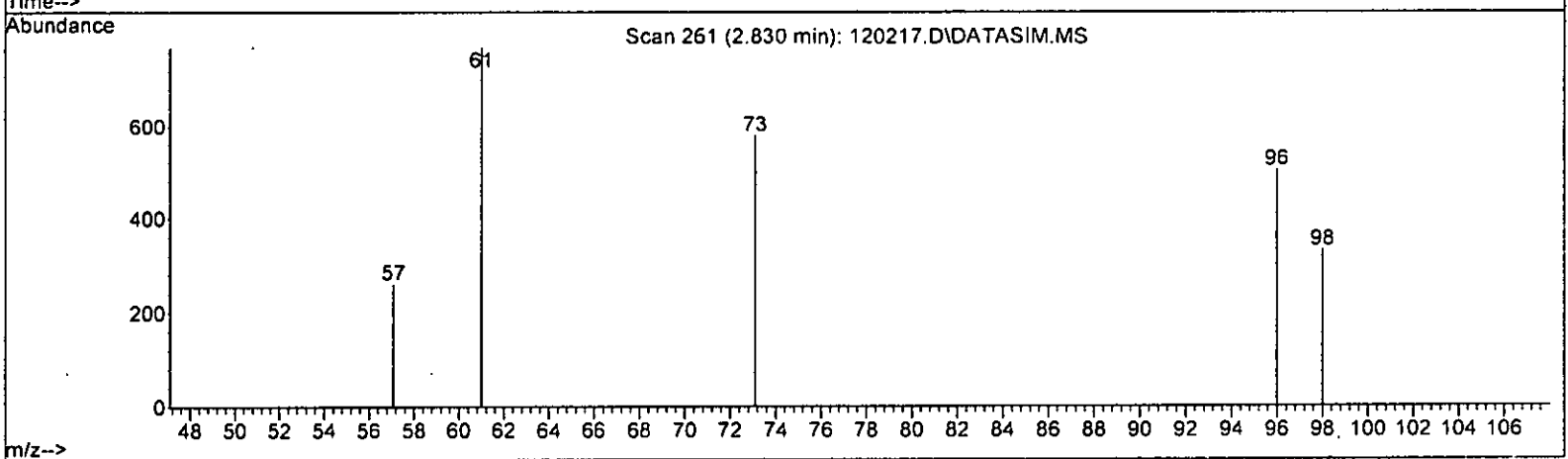
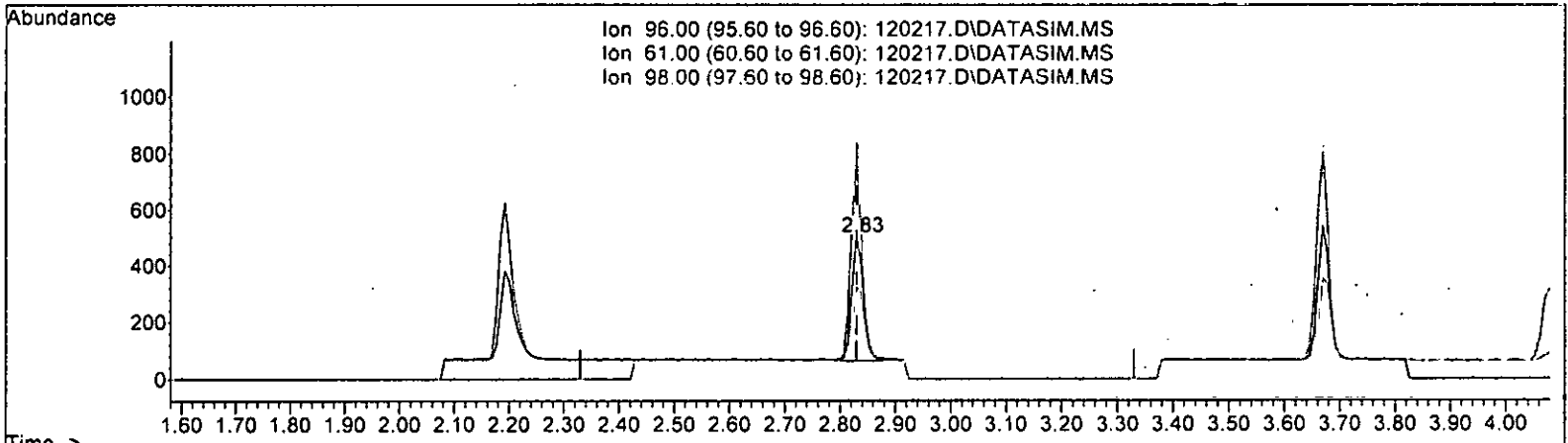
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	152.48
98.00	68.00	65.74
0.00	0.00	0.00

*M 12,5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 0.514 ppb m

response 666

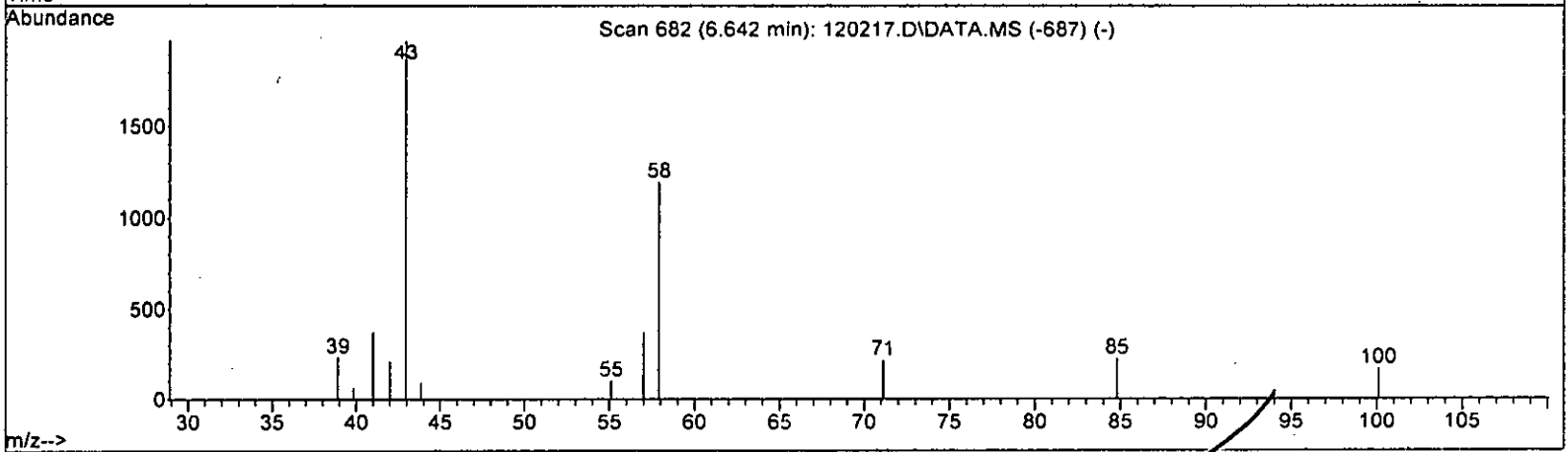
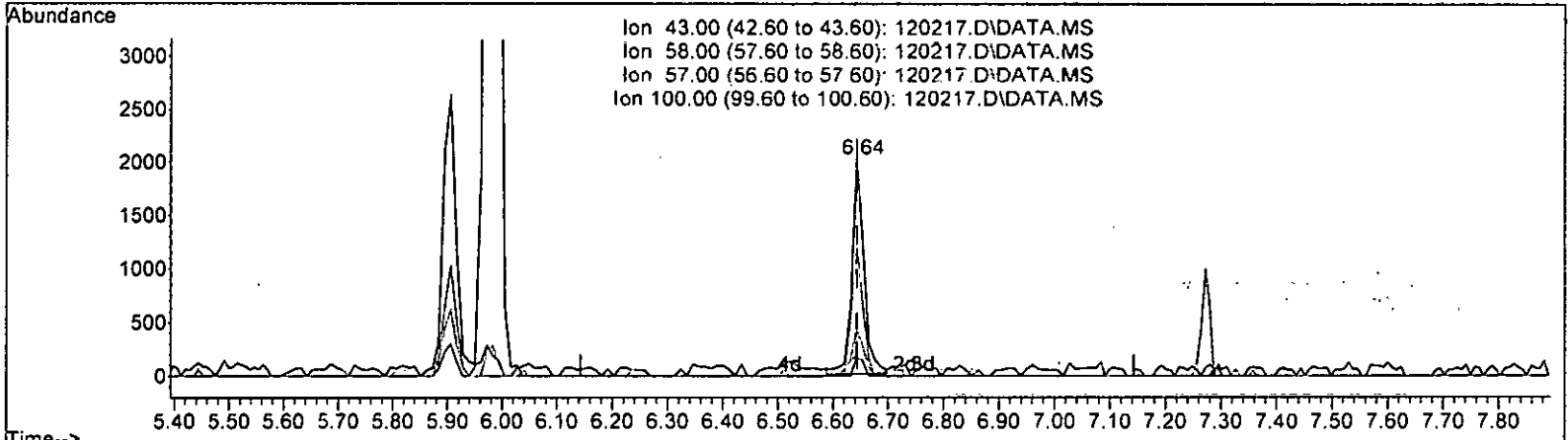
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	152.48
98.00	68.00	65.74
0.00	0.00	0.00

12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(43) 2-Hexanone (TMP)

6.642min (-0.001) 2.745 ppb

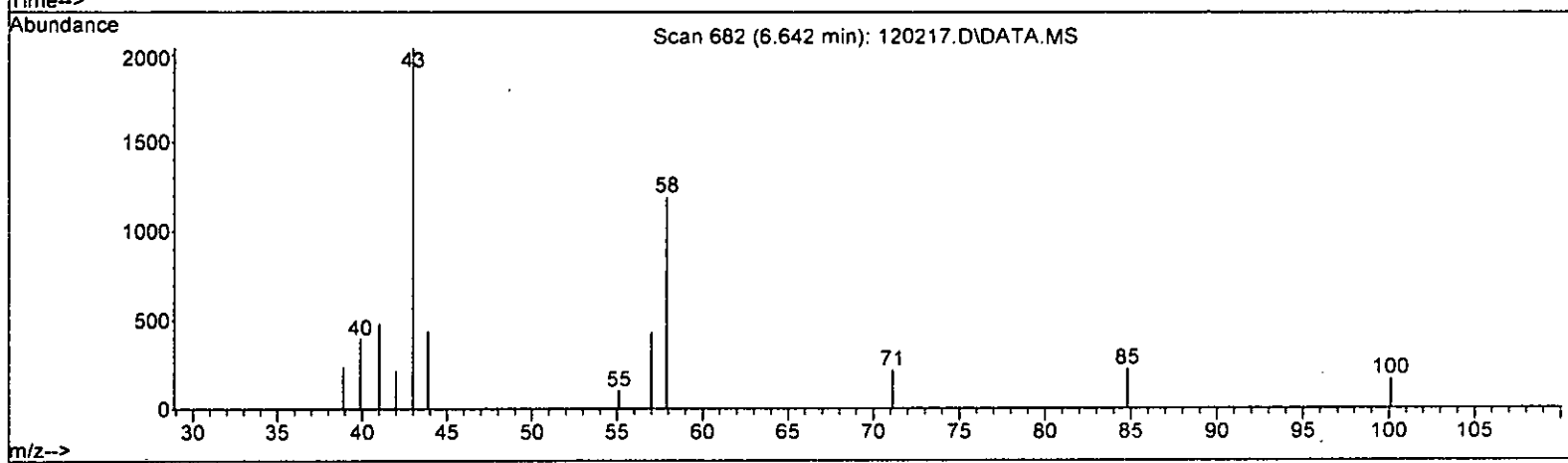
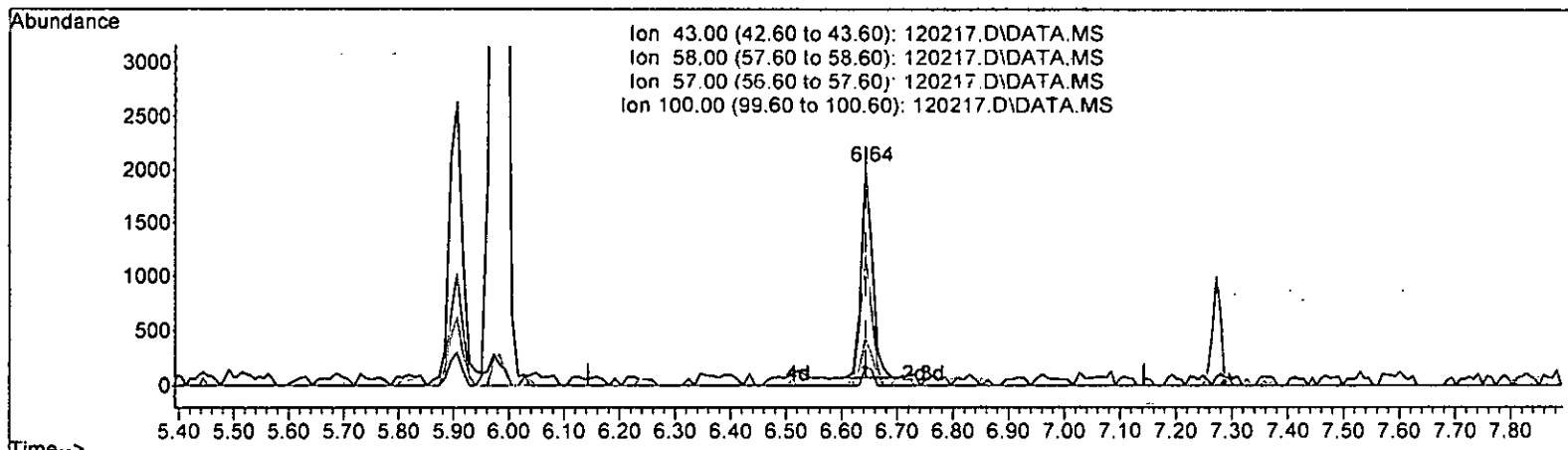
response	3056	
Ion	Exp%	Act%
43.00	100.00	100.00
58.00	56.00	60.15
57.00	21.00	21.72
100.00	10.90	8.38

m 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(43) 2-Hexanone (TMP) ~ 12.5

6.642min (-0.001) 2.437 ppb m

response	2714
Ion	Exp% Act%
43.00	100.00 100.00
58.00	56.00 58.47
57.00	21.00 21.11
100.00	10.90 8.15

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM511\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.02
3 S Dibromofluoromethane	10.000	9.829	1.7	100	0.00
4 TMP Dichlorodifluoromethane	0.500	0.502	-0.4	100	0.00
5 TMP Chloromethane	0.500	0.533	-6.6	100	0.00
6 TMP Vinyl chloride	0.500	0.468	6.4	100	0.00
7 TMP Bromomethane	-1.000	-1.626	0.0	0	0.00
8 TMP Chloroethane	0.500	0.422	15.6	100	0.00
9 TMP Trichlorofluoromethane	0.500	0.458	8.4	100	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	2.500	3.127	-25.1#	100	0.00
12 TMP 1,1-Dichloroethene	0.500	0.486	2.8	100	0.00
13 TMP Hexane	0.500	0.547	-9.4	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	2.500	2.630	-5.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.500	0.507	-1.4	99	0.00
17 TMP trans-1,2-Dichloroethene	0.500	0.514	-2.8	103	0.00
18 TMP Diisopropyl ether (DIPE)	0.500	0.551	-10.2	100	0.00
19 TMP 1,1-Dichloroethane	0.500	0.514	-2.8	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.500	0.518	-3.6	100	0.00
21 TMP 2,2-Dichloropropane	0.500	0.448	10.4	100	0.00
22 TMP cis-1,2-Dichloroethene	0.500	0.507	-1.4	100	0.00
23 TMP Chloroform	0.500	0.507	-1.4	100	0.00
24 TMP 2-Butanone (MEK)	2.500	1.793	28.3#	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.500	0.497	0.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.500	0.500	0.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.500	0.497	0.6	100	0.00
28 TMP 1,1-Dichloropropene	0.500	0.526	-5.2	100	0.00
29 TMP Carbon tetrachloride	0.500	0.465	7.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.334	6.7	100	0.00
31 TMP Benzene	0.500	0.502	-0.4	100	0.00
32 TMP Trichloroethene	0.500	0.493	1.4	100	0.00
33 TMP 1,2-Dichloropropane	0.500	0.565	-13.0	100	0.00
34 TMP Bromodichloromethane	0.500	0.469	6.2	100	0.00
35 S Toluene-d8	10.000	9.619	3.8	100	0.00
36 TMP Dibromomethane	0.500	0.614	-22.8#	100	0.00
37 TMP 4-Methyl-2-pentanone	2.500	2.441	2.4	100	0.00
38 TMP cis-1,3-Dichloropropene	0.500	0.526	-5.2	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.500	0.507	-1.4	100	0.00
41 TMP trans-1,3-Dichloropropene	0.500	0.536	-7.2	100	0.00
42 TMP 1,1,2-Trichloroethane	0.500	0.497	0.6	100	0.00
43 TMP 2-Hexanone	2.500	2.437	2.5	89	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.500	0.546	-9.2	100	0.00
45 TMP Tetrachloroethene	0.500	0.495	1.0	100	0.00
46 TMP Dibromochloromethane	0.500	0.514	-2.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.500	0.504	-0.8	100	0.00
48 TMP Chlorobenzene	0.500	0.538	-7.6	100	0.00
49 TMP Ethylbenzene	0.500	0.526	-5.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.500	0.497	0.6	100	0.00
51 TMP m,p-Xylene	1.000	1.042	-4.2	100	0.00
52 TMP o-Xylene	0.500	0.518	-3.6	100	0.00
53 TMP Styrene	0.500	0.527	-5.4	100	0.00
54 TMP Isopropylbenzene	0.500	0.490	2.0	100	0.00
55 TMP Bromoform	0.500	0.492	1.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.046	-0.5	100	0.00
58 TMP n-Propylbenzene	0.500	0.528	-5.6	100	0.00
59 TMP Bromobenzene	0.500	0.584	-16.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.500	0.527	-5.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.500	0.595	-19.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.500	0.533	-6.6	100	0.00
63 TMP 2-Chlorotoluene	0.500	0.580	-16.0	100	0.00
64 TMP 4-Chlorotoluene	0.500	0.548	-9.6	100	0.00
65 TMP tert-Butylbenzene	0.500	0.516	-3.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.500	0.532	-6.4	100	0.00
67 TMP sec-Butylbenzene	0.500	0.510	-2.0	100	0.00
68 TMP p-Isopropyltoluene	0.500	0.512	-2.4	100	0.00
69 TMP 1,3-Dichlorobenzene	0.500	0.514	-2.8	100	0.00
70 TMP 1,4-Dichlorobenzene	0.500	0.567	-13.4	100	0.00
71 TMP 1,2-Dichlorobenzene	0.500	0.541	-8.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.500	0.481	3.8	100	0.00
74 TMP Hexachlorobutadiene	0.500	0.546	-9.2	100	0.00
75 TMP Naphthalene	0.500	0.478	4.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.500	0.449	10.2	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.02
3 S Dibromofluoromethane	0.264	0.259	1.9	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	1.323	-39.1#	100	0.00
6 TMP Vinyl chloride	0.862	0.742	13.9	100	0.00
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	0.00
8 TMP Chloroethane	0.341	0.335	1.8	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.823	8.5	100	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.039	-25.8#	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.249	8.1	100	0.00
13 TMP Hexane	0.469	0.725	-54.6#	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.049	-6.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.777	4.3	99	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.292	7.0	103	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	1.051	-10.3	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.529	3.3	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.318	-3.6	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.381	-9.8	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.310	5.8	100	0.00
23 TMP Chloroform	0.477	0.484	-1.5	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.221	-27.7#	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.734	0.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.425	11.3	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.472	4.5	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.388	-5.4	100	0.00
29 TMP Carbon tetrachloride	0.396	0.368	7.1	100	0.00
30 5 1,2-Dichloroethane-d4	0.060	0.056	6.7	100	0.00
31 TMP Benzene	1.103	1.055	4.4	100	0.00
32 TMP Trichloroethene	0.368	0.332	9.8	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.356	-13.0	100	0.00
34 TMP Bromodichloromethane	0.375	0.352	6.1	100	0.00
35 S Toluene-d8	0.975	0.938	3.8	100	0.00
36 TMP Dibromomethane	0.181	0.223	-23.2#	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.053	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.466	-5.2	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.920	6.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.545	-7.3	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.288	-1.1	100	0.00
43 TMP 2-Hexanone	0.312	0.304	2.6	89	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.529	-9.3	100	0.00
45 TMP Tetrachloroethene	0.420	0.361	14.0	100	0.00
46 TMP Dibromochloromethane	0.366	0.377	-3.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.346	8.7	100	0.00
48 TMP Chlorobenzene	0.957	1.031	-7.7	100	0.00
49 TMP Ethylbenzene	1.885	1.787	5.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.356	0.6	100	0.00
51 TMP m,p-Xylene	0.705	0.672	4.7	100	0.00
52 TMP o-Xylene	0.683	0.653	4.4	100	0.00
53 TMP Styrene	1.004	1.058	-5.4	100	0.00
54 TMP Isopropylbenzene	1.606	1.575	1.9	100	0.00
55 TMP Bromoform	0.269	0.265	1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.868	-0.5	100	0.00
58 TMP n-Propylbenzene	3.386	3.575	-5.6	100	0.00
59 TMP Bromobenzene	0.790	0.922	-16.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.616	-5.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.872	-19.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.638	-6.5	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.383	-16.0	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.583	-9.7	100	0.00
65 TMP tert-Butylbenzene	2.194	2.265	-3.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.737	-6.3	100	0.00
67 TMP sec-Butylbenzene	3.160	3.226	-2.1	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.770	-2.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.511	-2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.697	-13.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.471	-8.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.000#	100.0#	0#	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.978	0.942	3.7	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.563	-9.1	100	0.00
75 TMP Naphthalene	2.401	2.294	4.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.795	10.2	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	45613	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35739	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19562	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	11816	9.829	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.30%	
30) 1,2-Dichloroethane-d4	4.36	102	2538	9.334	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	93.30%	
35) Toluene-d8	5.98	98	42796	9.619	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	96.20%	
57) 4-Bromofluorobenzene	8.38	95	16981	10.046	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	100.50%	
<b>Target Compounds</b>							
2) Ethanol	1.88	45	72	No Calib			
4) Dichlorodifluoromethane	1.09	85	1628	0.502	ppb	96	
5) Chloromethane	1.23	50	3017	0.533	ppb	99	
6] Vinyl chloride	1.30	62	1692m	0.468	ppb		
7) Bromomethane	1.55	94	1667	Below Cal	#	51	
8] Chloroethane	1.61	64	763m	0.422	ppb		
9) Trichlorofluoromethane	1.80	101	1877m	0.458	ppb		
10) 2-Propanol	2.41	45	290	No Calib			
11) Acetone	2.27	58	445	3.127	ppb	97	
12] 1,1-Dichloroethene	2.19	96	569m	0.486	ppb		
13) Hexane	3.05	57	1654	0.547	ppb	85	
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.75	59	555	2.630	ppb	98	
16] Methyl t-butyl ether (...)	2.85	73	1771m	0.507	ppb		
17] trans-1,2-Dichloroethene	2.83	96	666m	0.514	ppb		
18) Diisopropyl ether (DIPE)	3.25	45	2396	0.551	ppb	85	
19] 1,1-Dichloroethane	3.18	63	1207	0.514	ppb	96	
20) Ethyl t-butyl ether (E...)	3.55	87	726	0.518	ppb	88	
21) 2,2-Dichloropropane	3.67	77	869	0.448	ppb	90	
22] cis-1,2-Dichloroethene	3.67	96	707	0.507	ppb	93	
23) Chloroform	3.94	83	1103	0.507	ppb	92	
24) 2-Butanone (MEK)	3.71	43	2516	1.793	ppb	95	
25) t-Amyl methyl ether (T...)	4.50	73	1674	0.497	ppb	90	
26] 1,2-Dichloroethane (EDC)	4.42	62	969	0.500	ppb	96	
27] 1,1,1-Trichloroethane	4.08	97	1076	0.497	ppb	95	
28) 1,1-Dichloropropene	4.22	75	884	0.526	ppb	73	
29) Carbon tetrachloride	4.21	117	840	0.465	ppb	95	
31] Benzene	4.39	78	2405	0.502	ppb	93	
32] Trichloroethene	4.93	95	758	0.493	ppb	95	
33) 1,2-Dichloropropane	5.13	63	811	0.565	ppb	# 100	
34) Bromodichloromethane	5.37	83	802	0.469	ppb	69	
36) Dibromomethane	5.23	93	508	0.614	ppb	83	

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

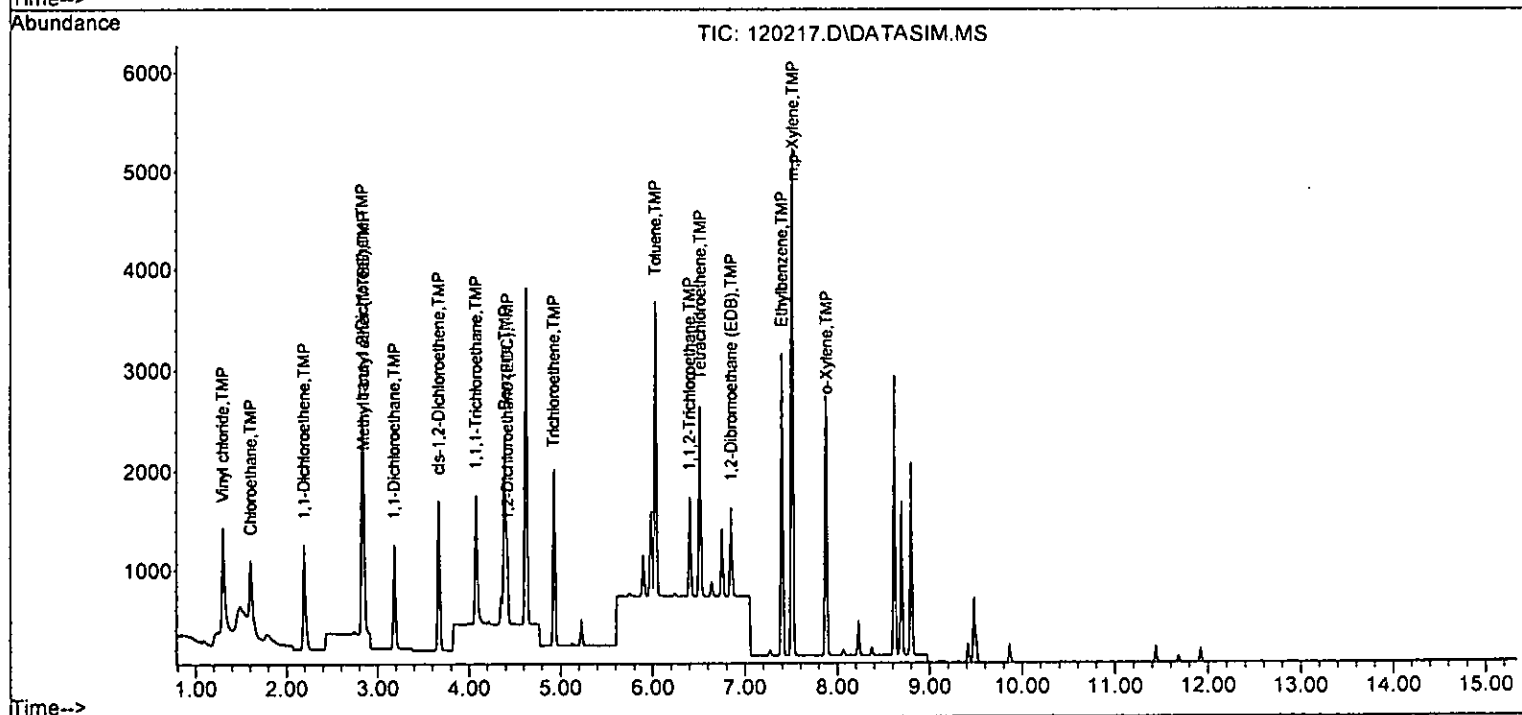
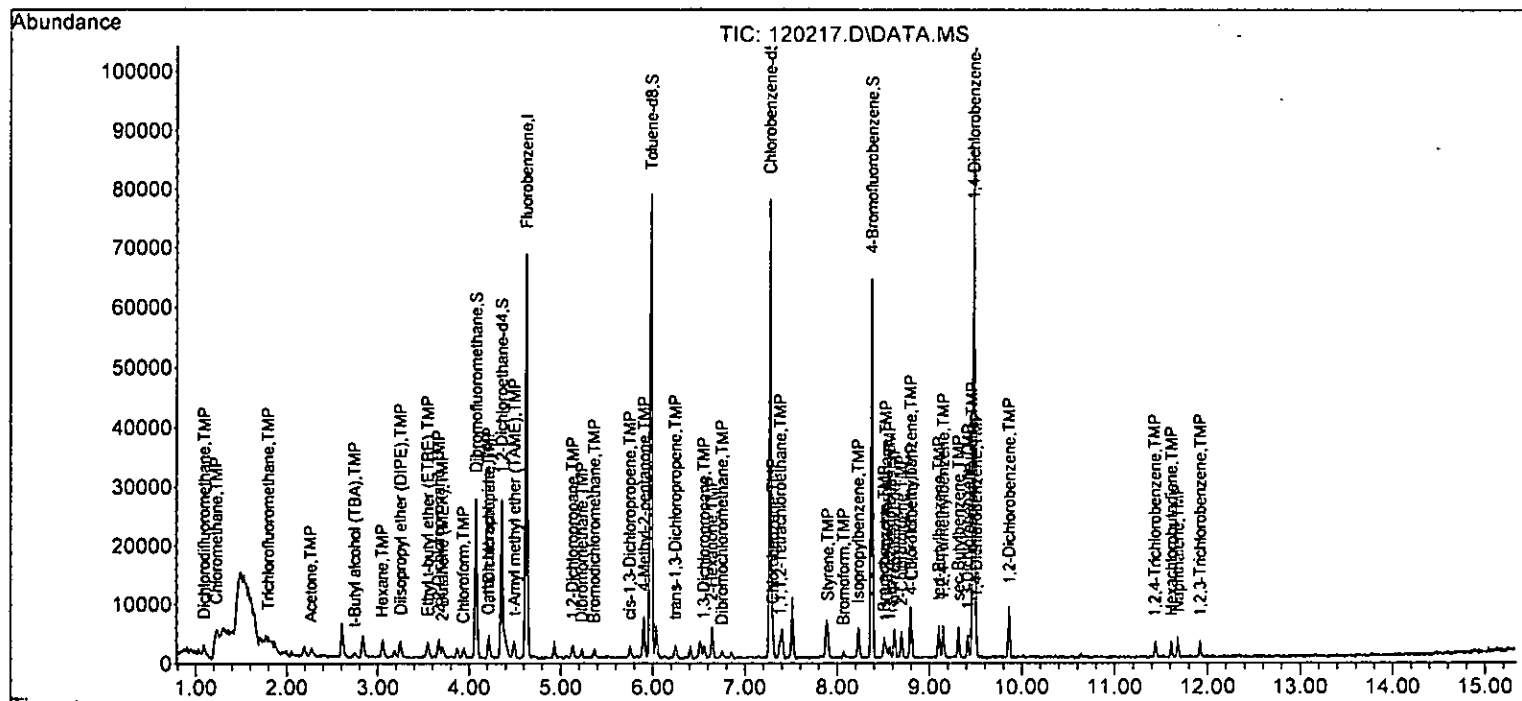
Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	603	2.441	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	1063	0.526	ppb	96
40] Toluene	6.03	92	1644	0.507	ppb	97
41) trans-1,3-Dichloropropene	6.25	75	973	0.536	ppb	81
42] 1,1,2-Trichloroethane	6.40	83	514	0.497	ppb	96
43) 2-Hexanone	6.64	43	2714m	2.437	ppb	
44) 1,3-Dichloropropane	6.55	76	946	0.546	ppb	76
45] Tetrachloroethene	6.51	164	645	0.495	ppb	99
46) Dibromochloromethane	6.75	129	673	0.514	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	619	0.504	ppb	100
48) Chlorobenzene	7.30	112	1842	0.538	ppb	90
49] Ethylbenzene	7.40	91	3194	0.526	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	636	0.497	ppb #	60
51] m,p-Xylene	7.52	106	2403	1.042	ppb #	74
52] o-Xylene	7.88	106	1167	0.518	ppb	96
53) Styrene	7.90	104	1890	0.527	ppb	90
54) Isopropylbenzene	8.23	105	2815	0.490	ppb	89
55) Bromoform	8.07	173	473	0.492	ppb	95
58) n-Propylbenzene	8.62	91	3497	0.528	ppb	86
59) Bromobenzene	8.51	156	902	0.584	ppb	86
60) 1,3,5-Trimethylbenzene	8.80	105	2559	0.527	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.53	83	853	0.595	ppb	91
62) 1,2,3-Trichloropropane	8.57	75	624	0.533	ppb	81
63) 2-Chlorotoluene	8.70	91	2331	0.580	ppb	99
64) 4-Chlorotoluene	8.81	91	2526	0.548	ppb	87
65) tert-Butylbenzene	9.10	119	2215	0.516	ppb	93
66) 1,2,4-Trimethylbenzene	9.15	105	2677	0.532	ppb	84
67) sec-Butylbenzene	9.31	105	3155	0.510	ppb	85
68) p-Isopropyltoluene	9.46	119	2709	0.512	ppb	89
69) 1,3-Dichlorobenzene	9.42	146	1478	0.514	ppb	95
70) 1,4-Dichlorobenzene	9.51	146	1660	0.567	ppb	86
71) 1,2-Dichlorobenzene	9.86	146	1439	0.541	ppb	96
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.44	180	921	0.481	ppb #	70
74) Hexachlorobutadiene	11.61	225	551	0.546	ppb	89
75) Naphthalene	11.68	128	2244	0.478	ppb	89
76) 1,2,3-Trichlorobenzene	11.92	180	778	0.449	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCM511

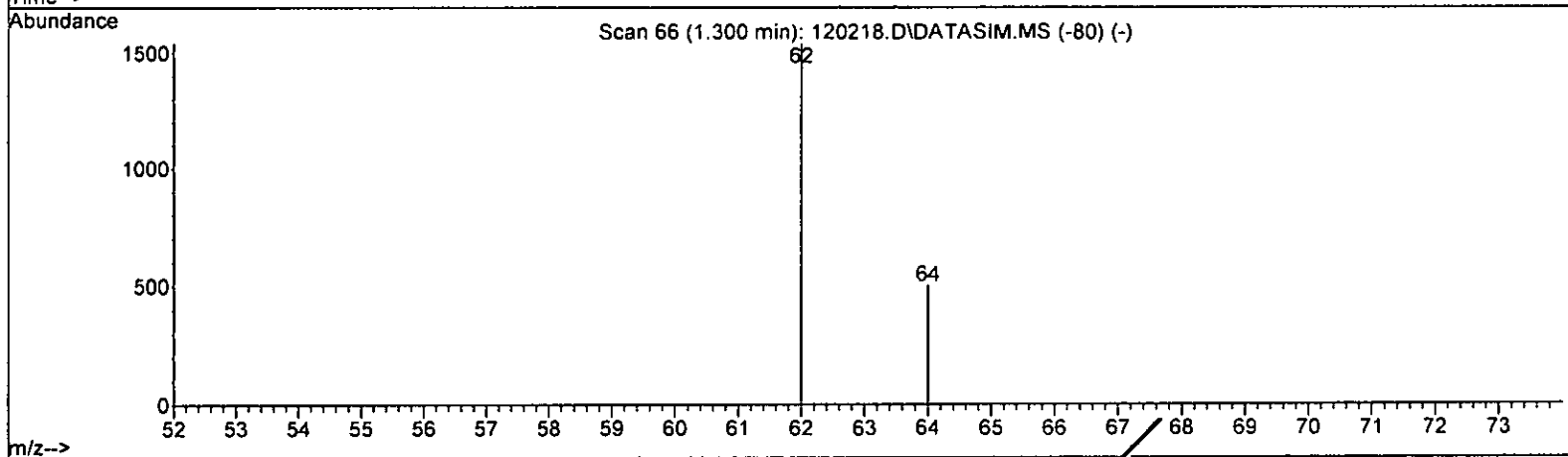
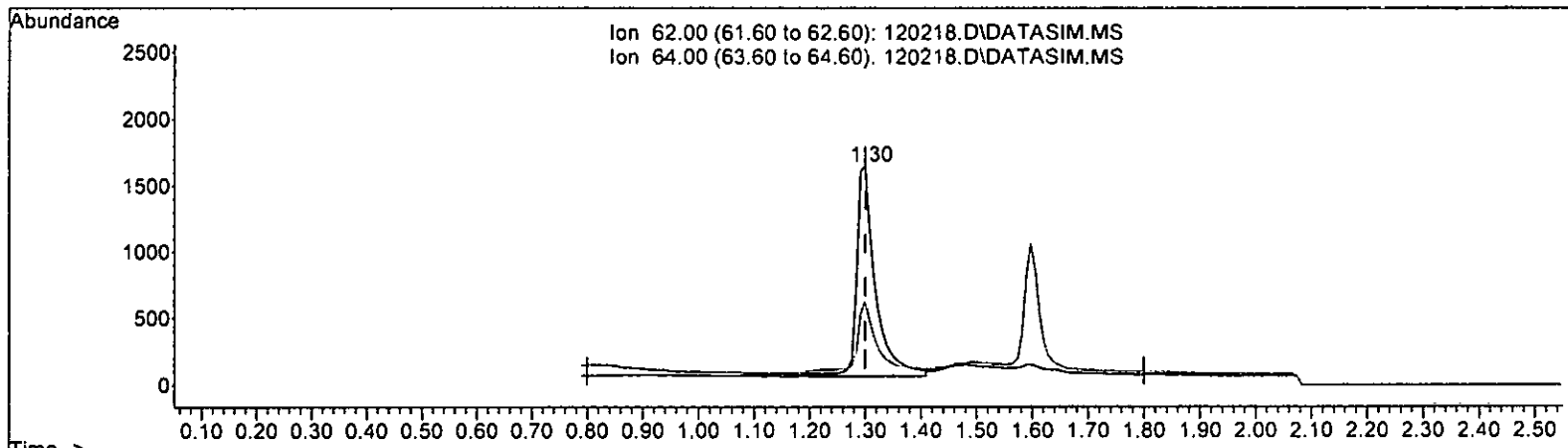
Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 1.081 ppb

response 3679

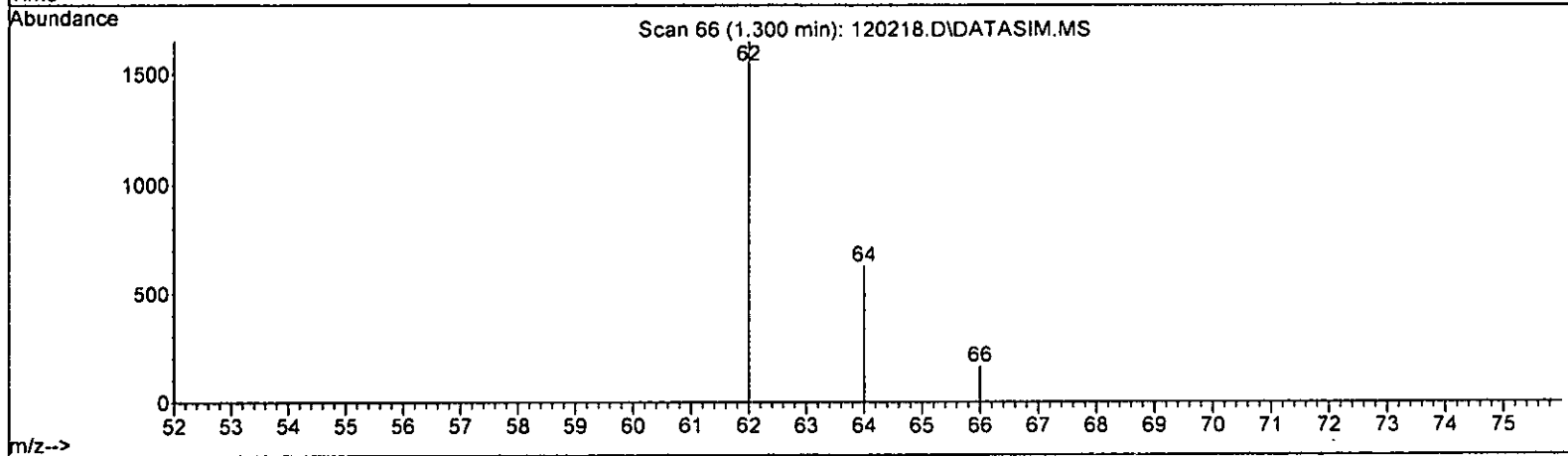
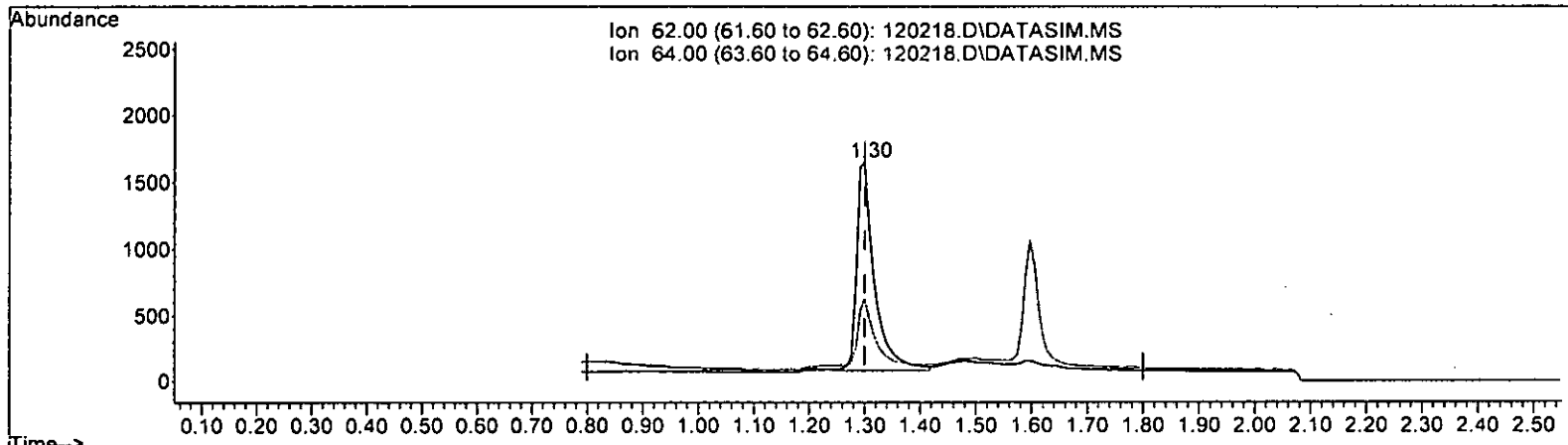
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	34.20
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 120218.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 1.023 ppb m

response 3487

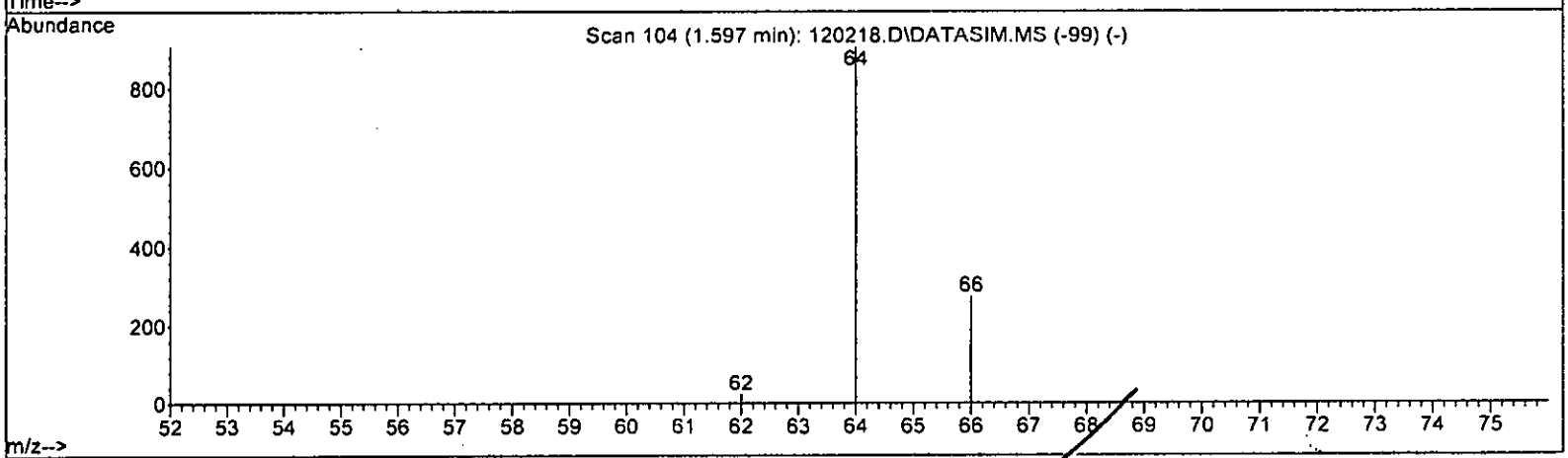
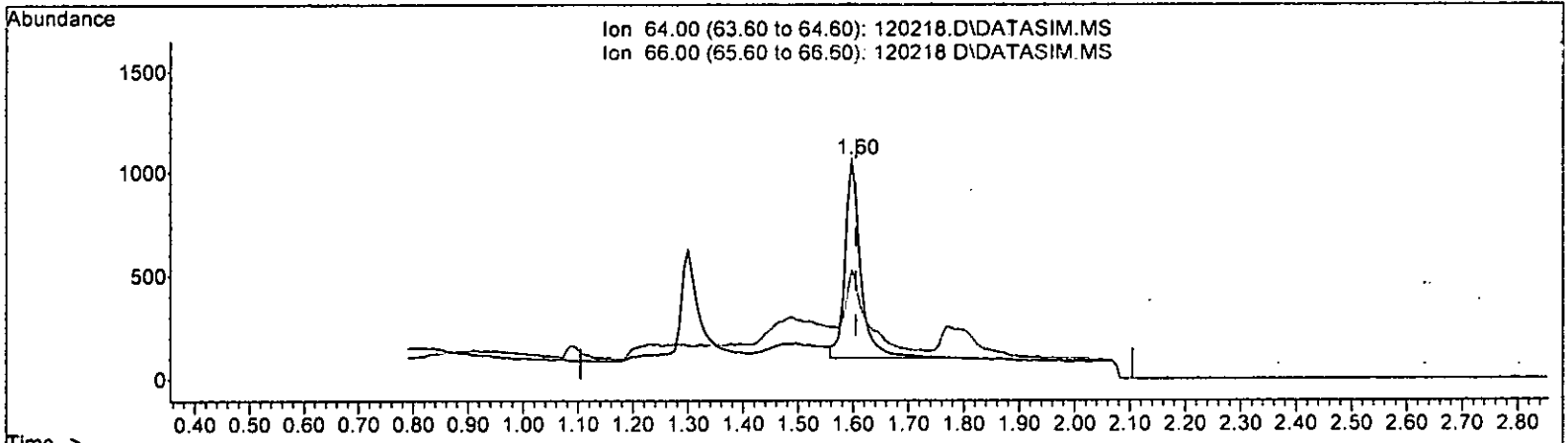
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	38.07
0.00	0.00	0.00
0.00	0.00	0.00

*m 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(8) Chloroethane (TMP)

1.597min (-0.008) 1.201 ppb

response 1884

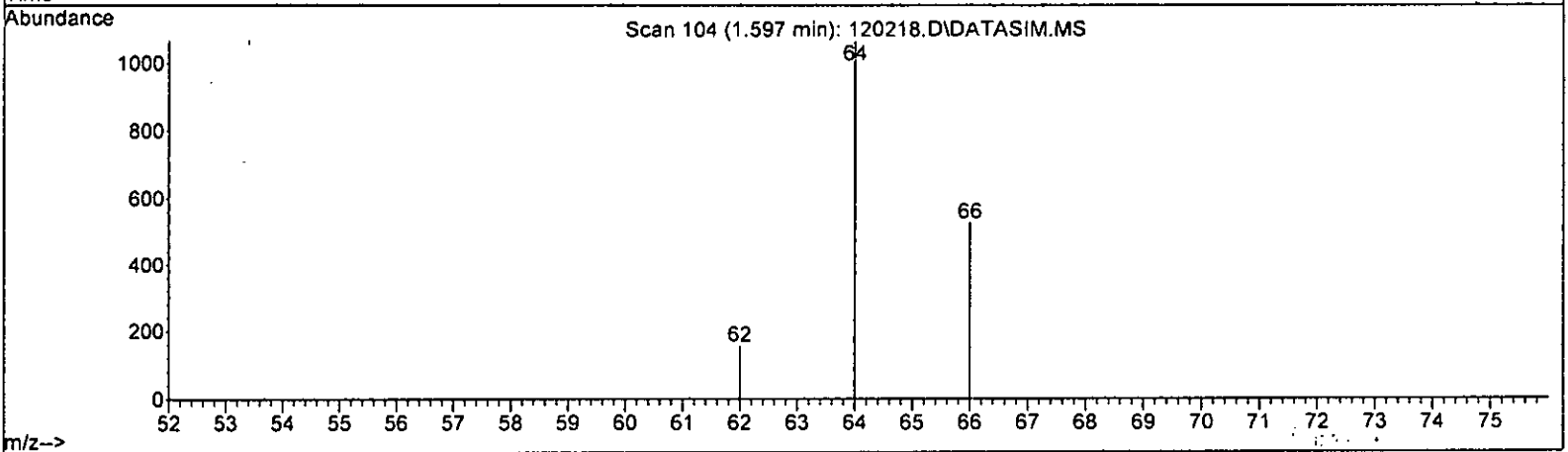
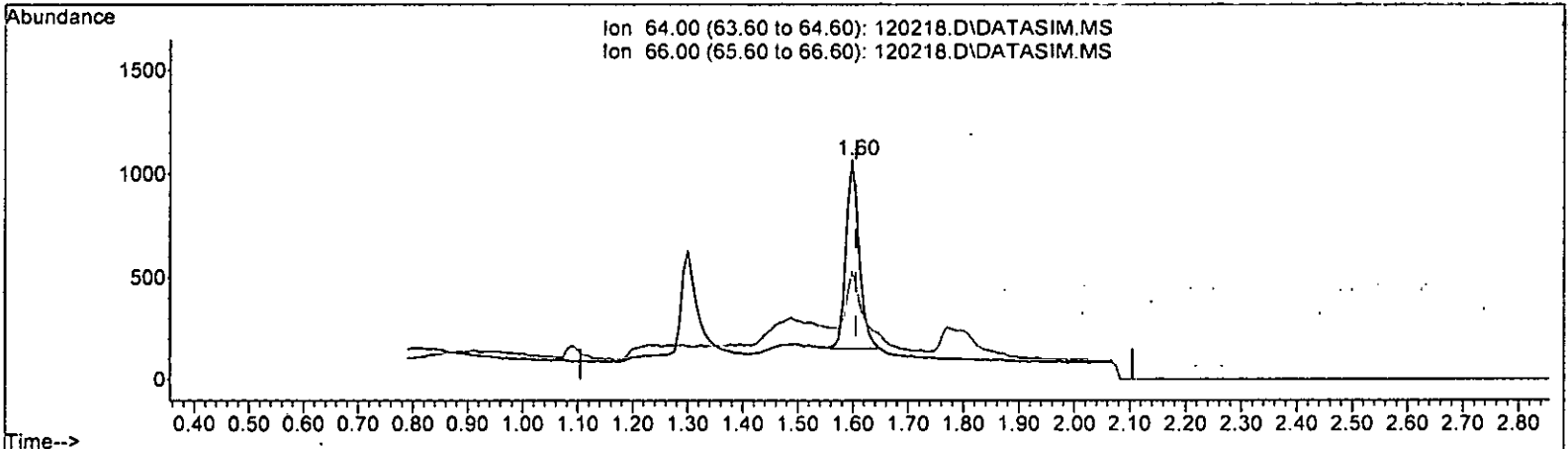
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	28.76
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

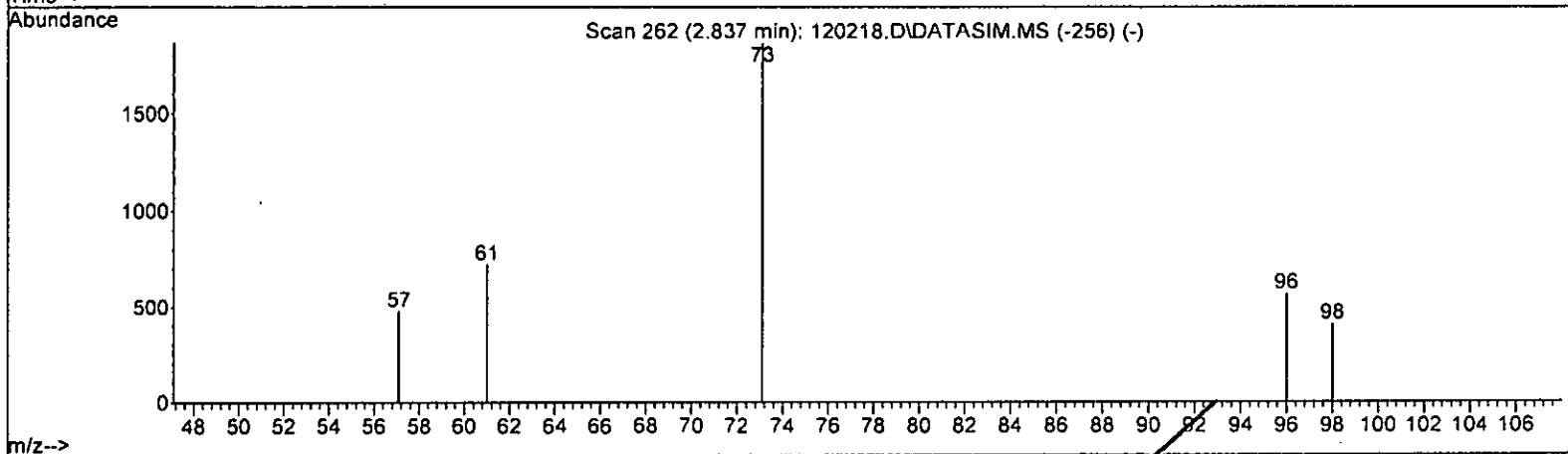
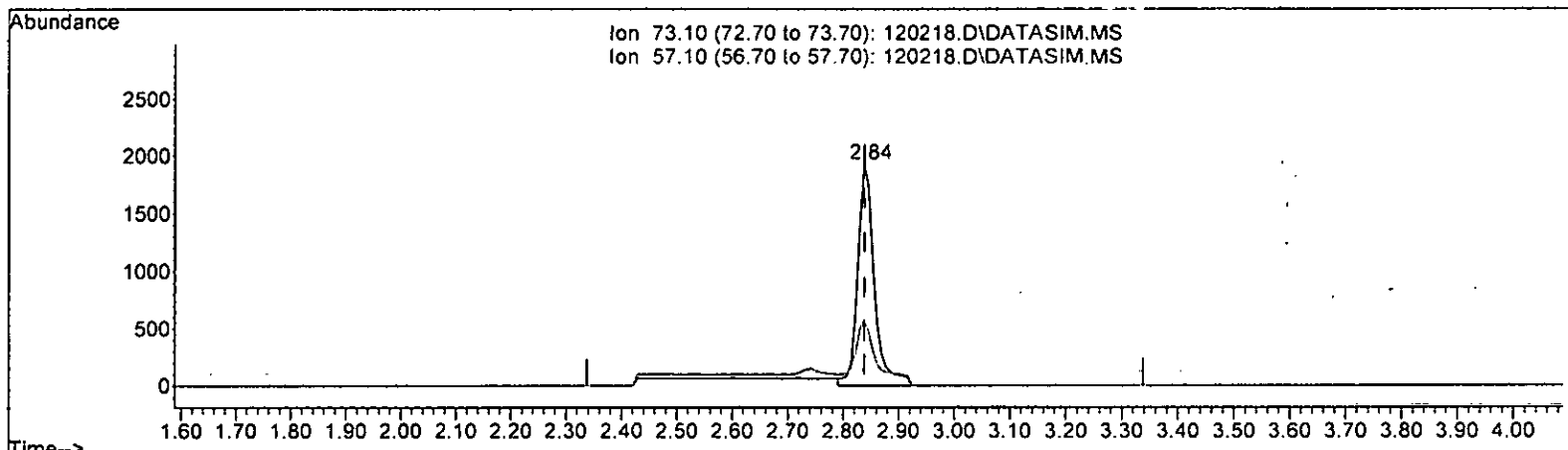
m 12.5

(8) Chloroethane (TMP)			
1.597min (-0.008) 0.960 ppb m			
response	1531		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	41.10	49.25	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 1.201 ppb

response 3999

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	29.89
0.00	0.00	0.00
0.00	0.00	0.00

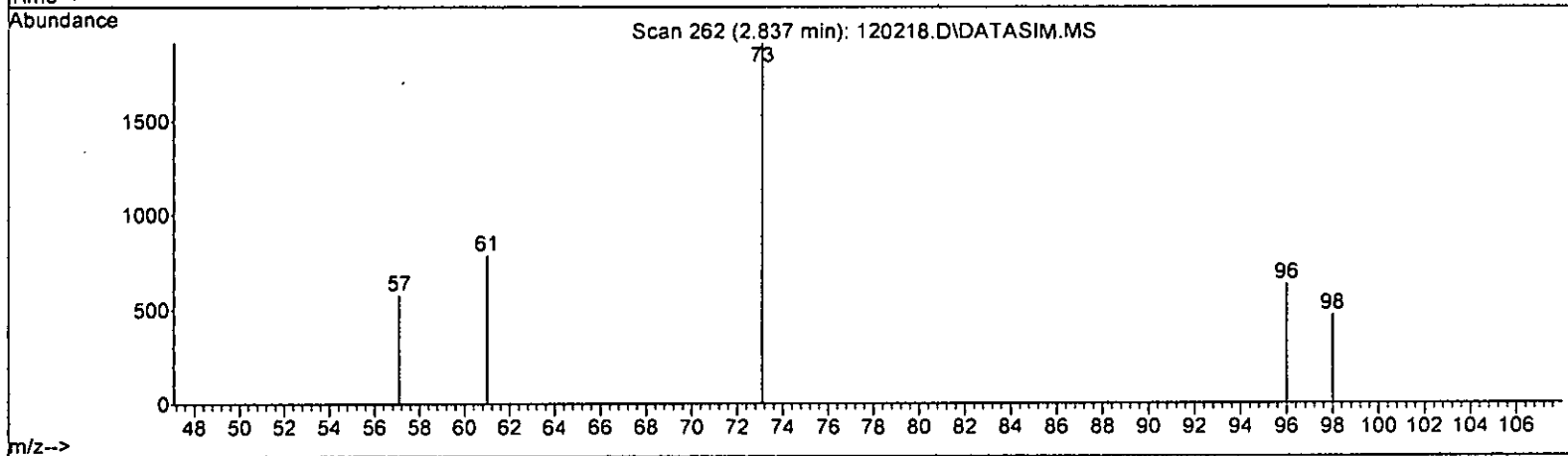
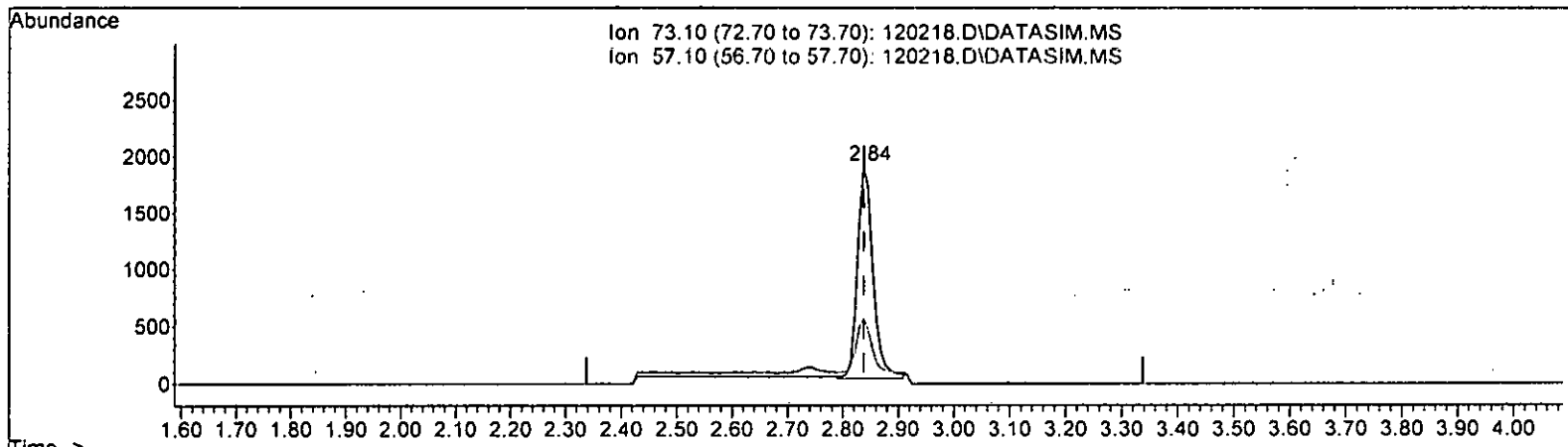
*M 12.5*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 1.086 ppb m

response 3623

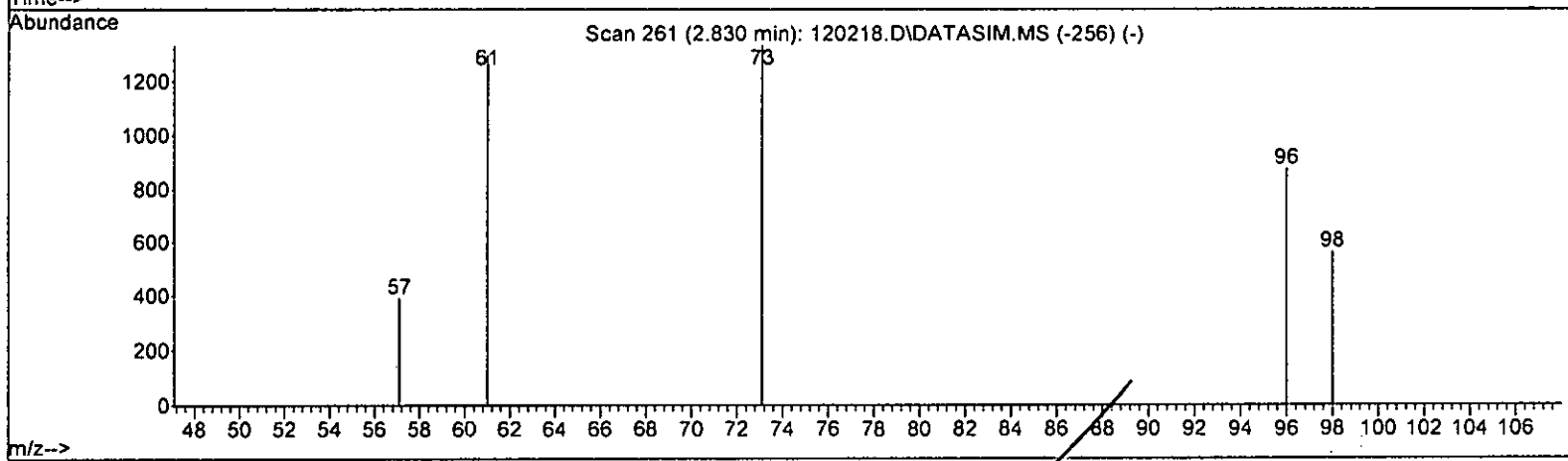
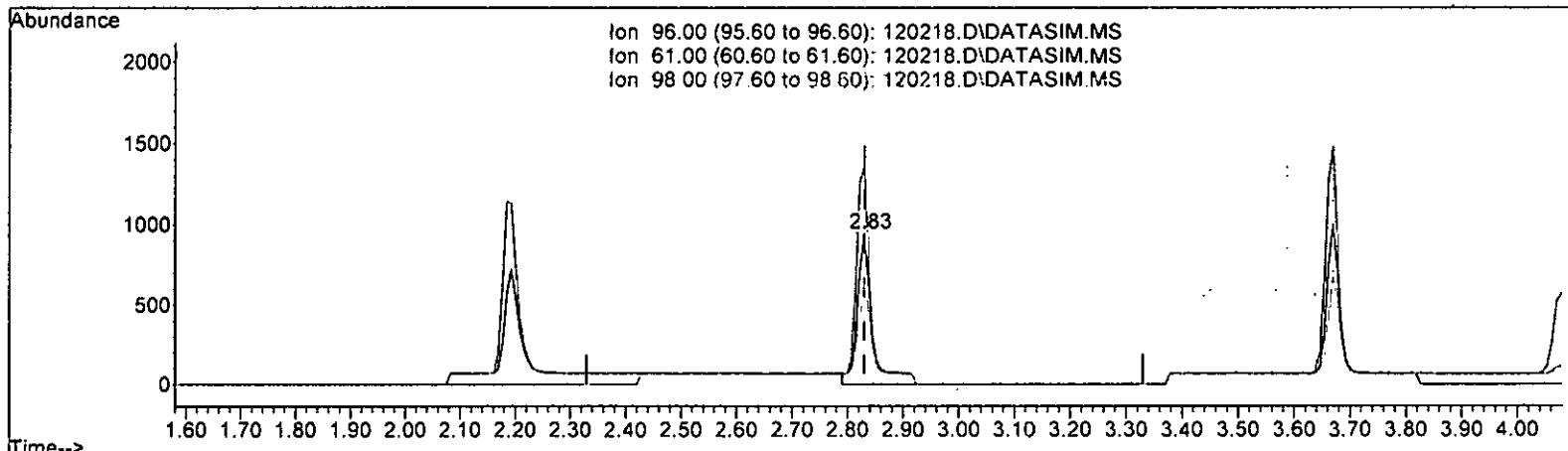
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	29.89
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 1.460 ppb

response 1767

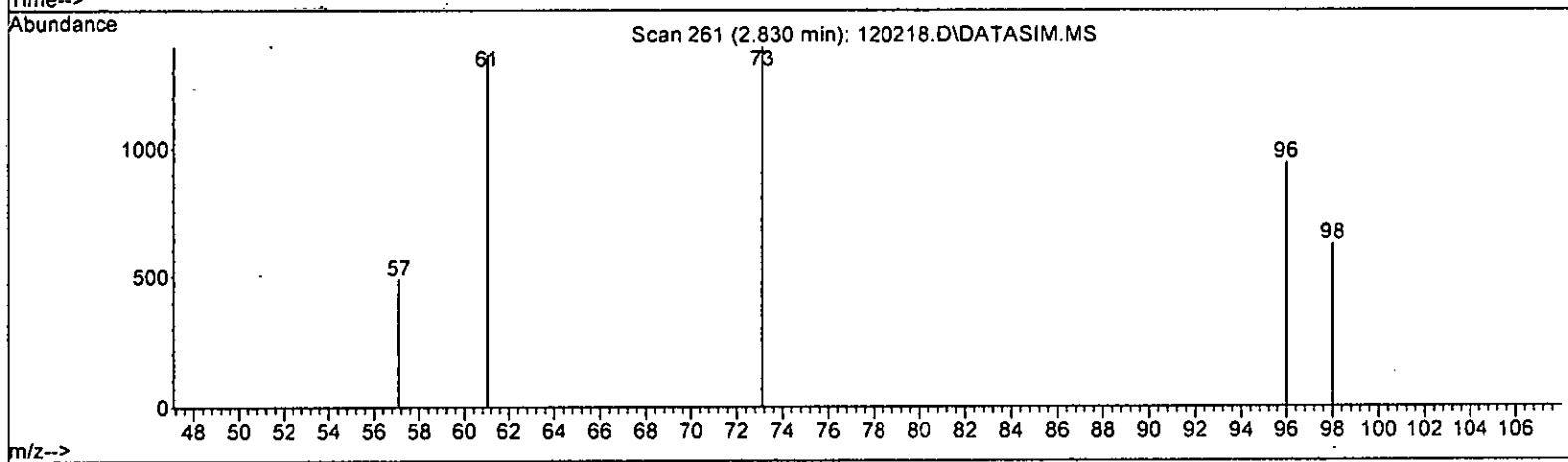
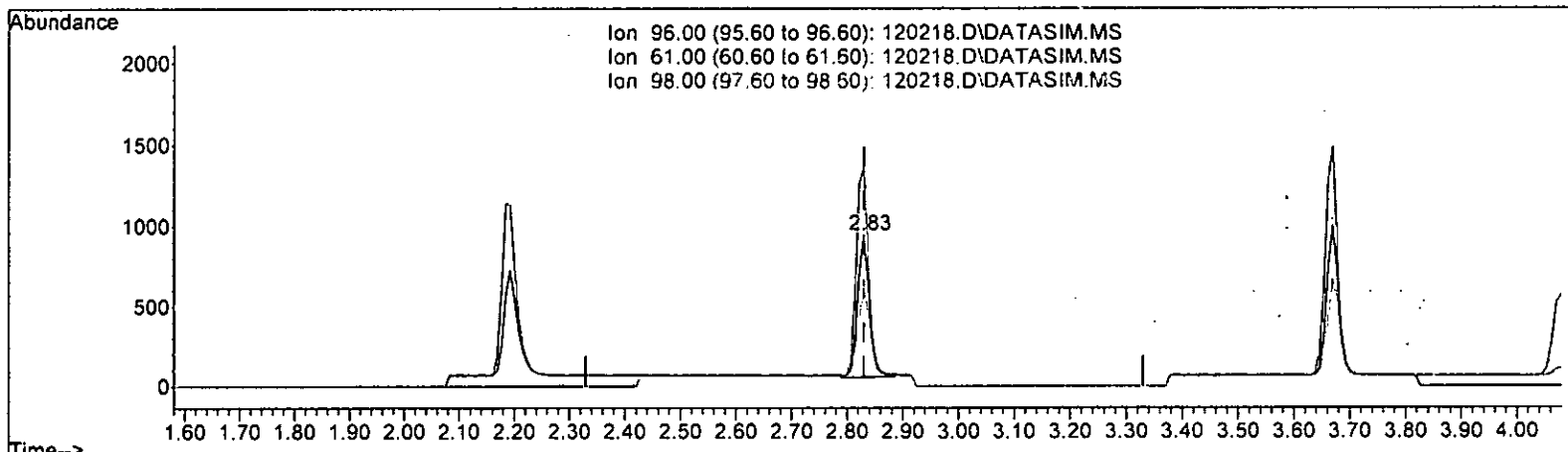
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	144.43
98.00	68.00	66.38
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

*W 12.5*

(17) trans-1,2-Dichloroethene (TMP)  
 2.830min (-0.000) 1.074 ppb m  
 response 1311

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	144.43
98.00	68.00	66.38
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.065	-0.6	100	0.00
4 TMP Dichlorodifluoromethane	1.000	1.004	-0.4	100	0.00
5 TMP Chloromethane	1.000	1.046	-4.6	82	0.00
6 TMP Vinyl chloride	1.000	1.023	-2.3	101	0.00
7 TMP Bromomethane	-1.000	-0.042	0.0	0	0.00
8 TMP Chloroethane	1.000	0.960	4.0	100	0.00
9 TMP Trichlorofluoromethane	1.000	1.002	-0.2	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	5.000	5.896	-17.9	100	0.00
12 TMP 1,1-Dichloroethene	1.000	1.014	-1.4	100	0.00
13 TMP Hexane	1.000	0.933	6.7	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	5.000	5.432	-8.6	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	1.000	1.086	-8.6	102	0.00
17 TMP trans-1,2-Dichloroethene	1.000	1.074	-7.4	101	0.00
18 TMP Diisopropyl ether (DIPE)	1.000	1.055	-5.5	100	0.00
19 TMP 1,1-Dichloroethane	1.000	1.051	-5.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	1.000	0.999	0.1	100	0.00
21 TMP 2,2-Dichloropropane	1.000	1.013	-1.3	100	0.00
22 TMP cis-1,2-Dichloroethene	1.000	1.038	-3.8	100	0.00
23 TMP Chloroform	1.000	1.039	-3.9	100	0.00
24 TMP 2-Butanone (MEK)	5.000	4.105	17.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	1.000	1.086	-8.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	1.000	1.040	-4.0	100	0.00
27 TMP 1,1,1-Trichloroethane	1.000	1.024	-2.4	100	0.00
28 TMP 1,1-Dichloropropene	1.000	1.039	-3.9	100	0.00
29 TMP Carbon tetrachloride	1.000	1.037	-3.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.581	-5.8	100	0.00
31 TMP Benzene	1.000	1.028	-2.8	100	0.00
32 TMP Trichloroethene	1.000	1.030	-3.0	100	0.00
33 TMP 1,2-Dichloropropane	1.000	1.076	-7.6	100	0.00
34 TMP Bromodichloromethane	1.000	1.027	-2.7	100	0.00
35 S Toluene-d8	10.000	9.910	0.9	100	0.00
36 TMP Dibromomethane	1.000	0.952	4.8	100	0.00
37 TMP 4-Methyl-2-pentanone	5.000	5.544	-10.9	100	0.00
38 TMP cis-1,3-Dichloropropene	1.000	0.993	0.7	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	1.000	1.047	-4.7	100	0.00
41 TMP trans-1,3-Dichloropropene	1.000	0.953	4.7	100	0.00
42 TMP 1,1,2-Trichloroethane	1.000	1.029	-2.9	100	0.00
43 TMP 2-Hexanone	5.000	5.401	-8.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	1.000	1.039	-3.9	100	0.00
45 TMP Tetrachloroethene	1.000	1.032	-3.2	100	0.00
46 TMP Dibromochloromethane	1.000	1.004	-0.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	1.000	1.023	-2.3	100	0.00
48 TMP Chlorobenzene	1.000	0.989	1.1	100	0.00
49 TMP Ethylbenzene	1.000	1.086	-8.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	1.000	1.059	-5.9	100	0.00
51 TMP m,p-Xylene	2.000	2.132	-6.6	100	0.00
52 TMP o-Xylene	1.000	1.062	-6.2	100	0.00
53 TMP Styrene	1.000	1.081	-8.1	100	0.00
54 TMP Isopropylbenzene	1.000	1.063	-6.3	100	0.00
55 TMP Bromoform	1.000	0.928	7.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.092	-0.9	100	0.00
58 TMP n-Propylbenzene	1.000	1.051	-5.1	100	0.00
59 TMP Bromobenzene	1.000	1.038	-3.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.000	1.031	-3.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	1.000	1.053	-5.3	100	0.00
62 TMP 1,2,3-Trichloropropane	1.000	1.028	-2.8	100	0.00
63 TMP 2-Chlorotoluene	1.000	1.089	-8.9	100	0.00
64 TMP 4-Chlorotoluene	1.000	1.094	-9.4	100	0.00
65 TMP tert-Butylbenzene	1.000	1.041	-4.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.000	1.043	-4.3	100	0.00
67 TMP sec-Butylbenzene	1.000	1.018	-1.8	100	0.00
68 TMP p-Isopropyltoluene	1.000	1.060	-6.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.000	1.033	-3.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.000	1.052	-5.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.000	1.070	-7.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	1.000	0.989	1.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	1.000	1.093	-9.3	100	0.00
74 TMP Hexachlorobutadiene	1.000	1.006	-0.6	100	0.00
75 TMP Naphthalene	1.000	0.933	6.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	1.000	1.053	-5.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM511\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.265	-0.4	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	1.096	-15.2	82	0.00
6 TMP Vinyl chloride	0.862	0.785	8.9	101	0.00
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	0.00
8 TMP Chloroethane	0.341	0.345	-1.2	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.901	-0.2	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.037	-19.4	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.255	5.9	100	0.00
13 TMP Hexane	0.469	0.523	-11.5	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.050	-8.7	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.816	-0.5	102	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.295	6.1	101	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	1.005	-5.5	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.531	2.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.307	0.0	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.361	-4.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.310	5.8	100	0.00
23 TMP Chloroform	0.477	0.495	-3.8	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.185	-6.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.802	-8.5	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.424	11.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.480	2.8	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.383	-4.1	100	0.00
29 TMP Carbon tetrachloride	0.396	0.411	-3.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.063	-5.0	100	0.00
31 TMP Benzene	1.103	1.061	3.8	100	0.00
32 TMP Trichloroethene	0.368	0.337	8.4	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.339	-7.6	100	0.00
34 TMP Bromodichloromethane	0.375	0.385	-2.7	100	0.00
35 S Toluene-d8	0.975	0.967	0.8	100	0.00
36 TMP Dibromomethane	0.181	0.173	4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.060	-11.1	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.440	0.7	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.924	6.3	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.484	4.7	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.291	-2.1	100	0.00
43 TMP 2-Hexanone	0.312	0.337	-8.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.503	-3.9	100	0.00
45 TMP Tetrachloroethene	0.420	0.357	15.0	100	0.00
46 TMP Dibromochloromethane	0.366	0.368	-0.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.340	10.3	100	0.00
48 TMP Chlorobenzene	0.957	0.947	1.0	100	0.00
49 TMP Ethylbenzene	1.885	1.787	5.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.379	-5.9	100	0.00
51 TMP m,p-Xylene	0.705	0.669	5.1	100	0.00
52 TMP o-Xylene	0.683	0.653	4.4	100	0.00
53 TMP Styrene	1.004	1.085	-8.1	100	0.00
54 TMP Isopropylbenzene	1.606	1.708	-6.4	100	0.00
55 TMP Bromoform	0.269	0.250	7.1	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.872	-0.9	100	0.00
58 TMP n-Propylbenzene	3.386	3.558	-5.1	100	0.00
59 TMP Bromobenzene	0.790	0.820	-3.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.560	-3.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.772	-5.3	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.616	-2.8	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.238	-9.0	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.576	-9.4	100	0.00
65 TMP tert-Butylbenzene	2.194	2.285	-4.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.685	-4.3	100	0.00
67 TMP sec-Butylbenzene	3.160	3.217	-1.8	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.870	-6.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.518	-3.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.576	-5.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.457	-7.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.156	1.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	1.069	-9.3	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.519	-0.6	100	0.00
75 TMP Naphthalene	2.401	2.241	6.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.932	-5.3	100	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	44408	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35243	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19491	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11780	10.065	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.70%	
30) 1,2-Dichloroethane-d4	4.36	102	2801	10.581	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	105.80%	
35) Toluene-d8	5.98	98	42927	9.910	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	99.10%	
57) 4-Bromofluorobenzene	8.38	95	16996	10.092	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	100.90%	
Target Compounds						
						Qvalue
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.09	85	3172	1.004	ppb	77
5) Chloromethane	1.22	50	4865	1.046	ppb	94
6] Vinyl chloride	1.30	62	3487m	1.023	ppb	
7) Bromomethane	1.53	94	4262	Below Cal		85
8] Chloroethane	1.60	64	1531m	0.960	ppb	
9) Trichlorofluoromethane	1.77	101	4003	1.002	ppb	# 8
10) 2-Propanol	2.39	45	339	No Calib		
11) Acetone	2.27	58	817	5.896	ppb	# 70
12] 1,1-Dichloroethene	2.19	96	1132	1.014	ppb	92
13) Hexane	3.05	57	2323	0.933	ppb	93
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	2.75	59	1116	5.432	ppb	76
16] Methyl t-butyl ether (...)	2.84	73	3623m	1.086	ppb	
17] trans-1,2-Dichloroethene	2.83	96	1311m	1.074	ppb	
18) Diisopropyl ether (DIPE)	3.24	45	4461	1.055	ppb	99
19] 1,1-Dichloroethane	3.18	63	2360	1.051	ppb	98
20) Ethyl t-butyl ether (E...)	3.55	87	1363	0.999	ppb	# 85
21) 2,2-Dichloropropane	3.67	77	1605	1.013	ppb	95
22] cis-1,2-Dichloroethene	3.67	96	1375	1.038	ppb	96
23) Chloroform	3.94	83	2199	1.039	ppb	91
24) 2-Butanone (MEK)	3.71	43	4107	4.105	ppb	98
25) t-Amyl methyl ether (T...)	4.50	73	3561	1.086	ppb	96
26] 1,2-Dichloroethane (EDC)	4.41	62	1884	1.040	ppb	98
27] 1,1,1-Trichloroethane	4.08	97	2132	1.024	ppb	98
28) 1,1-Dichloropropene	4.22	75	1699	1.039	ppb	89
29) Carbon tetrachloride	4.21	117	1823	1.037	ppb	100
31] Benzene	4.39	78	4710	1.028	ppb	98
32] Trichloroethene	4.93	95	1496	1.030	ppb	96
33) 1,2-Dichloropropane	5.13	63	1504	1.076	ppb	# 100
34) Bromodichloromethane	5.37	83	1711	1.027	ppb	94
36) Dibromomethane	5.23	93	767	0.952	ppb	83



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

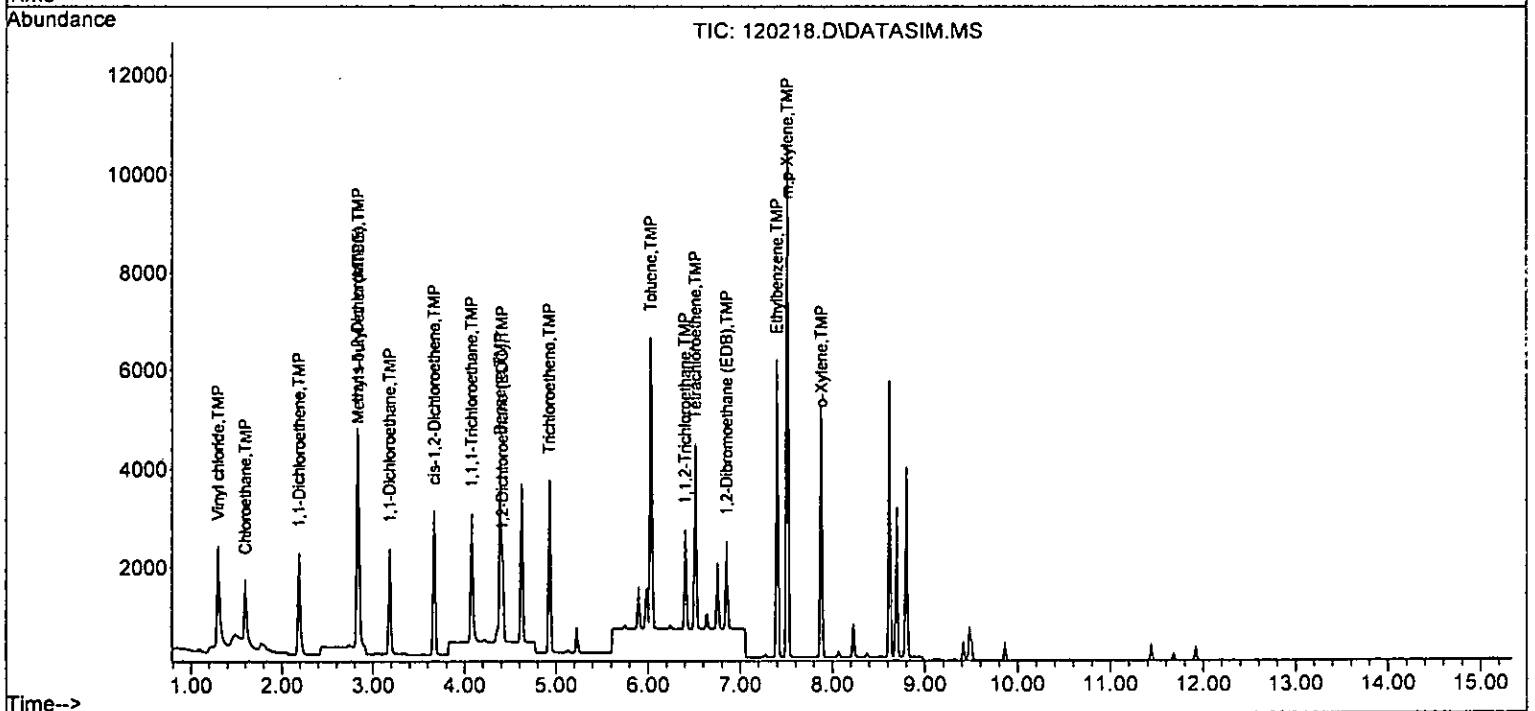
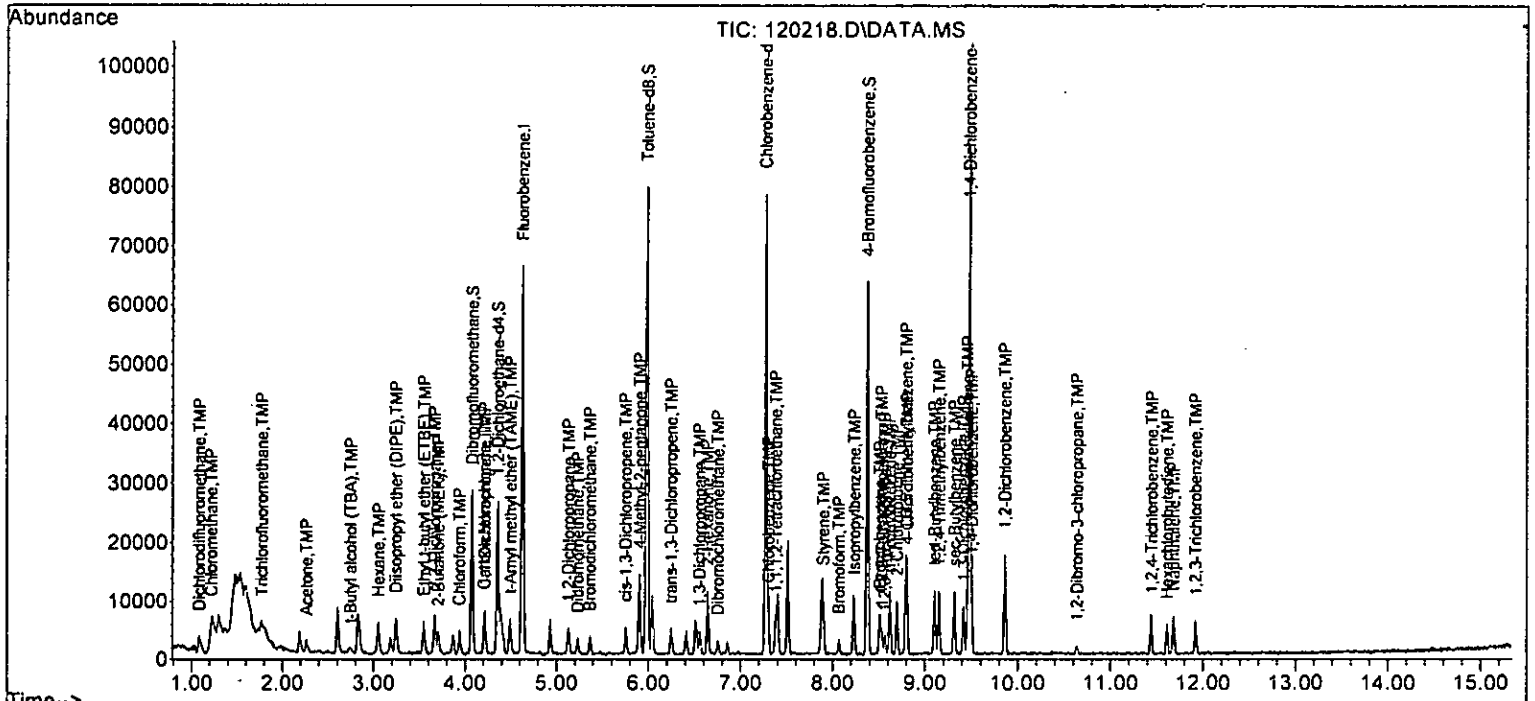
Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
37) 4-Methyl-2-pentanone	5.91	85	1333	5.544	ppb	#	79
38) cis-1,3-Dichloropropene	5.75	75	1953	0.993	ppb		89
40] Toluene	6.03	92	3258	1.047	ppb		99
41) trans-1,3-Dichloropropene	6.25	75	1705	0.953	ppb		82
42] 1,1,2-Trichloroethane	6.40	83	1027	1.029	ppb		99
43) 2-Hexanone	6.64	43	5931	5.401	ppb		92
44) 1,3-Dichloropropane	6.55	76	1773	1.039	ppb		93
45] Tetrachloroethene	6.51	164	1259	1.032	ppb		99
46) Dibromochloromethane	6.75	129	1296	1.004	ppb		83
47] 1,2-Dibromoethane (ED8)	6.85	107	1199	1.023	ppb		100
48) Chlorobenzene	7.30	112	3336	0.989	ppb		98
49] Ethylbenzene	7.40	91	6298	1.086	ppb		99
50) 1,1,1,2-Tetrachloroethane	7.38	131	1337	1.059	ppb		79
51] m,p-Xylene	7.51	106	4719	2.132	ppb		97
52] o-Xylene	7.88	106	2303	1.062	ppb		98
53) Styrene	7.90	104	3825	1.081	ppb		92
54) Isopropylbenzene	8.23	105	6020	1.063	ppb		84
55) Bromoform	8.07	173	880	0.928	ppb		91
58) n-Propylbenzene	8.62	91	6935	1.051	ppb		93
59) Bromobenzene	8.51	156	1598	1.038	ppb	#	67
60) 1,3,5-Trimethylbenzene	8.80	105	4989	1.031	ppb		98
61) 1,1,2,2-Tetrachloroethane	8.53	83	1505	1.053	ppb		84
62) 1,2,3-Trichloropropane	8.56	75	1200	1.028	ppb		89
63) 2-Chlorotoluene	8.70	91	4362	1.089	ppb		100
64) 4-Chlorotoluene	8.81	91	5021	1.094	ppb		97
65) tert-Butylbenzene	9.10	119	4453	1.041	ppb		93
66) 1,2,4-Trimethylbenzene	9.15	105	5234	1.043	ppb		99
67) sec-Butylbenzene	9.32	105	6270	1.018	ppb		87
68) p-Isopropyltoluene	9.46	119	5593	1.060	ppb		99
69) 1,3-Dichlorobenzene	9.42	146	2958	1.033	ppb		94
70) 1,4-Dichlorobenzene	9.50	146	3072	1.052	ppb		94
71) 1,2-Dichlorobenzene	9.86	146	2839	1.070	ppb		84
72) 1,2-Dibromo-3-chloropr...	10.64	75	305	0.989	ppb		81
73) 1,2,4-Trichlorobenzene	11.44	180	2084	1.093	ppb		86
74) Hexachlorobutadiene	11.61	225	1011	1.006	ppb		89
75) Naphthalene	11.68	128	4367	0.933	ppb		91
76) 1,2,3-Trichlorobenzene	11.92	180	1817	1.053	ppb	#	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

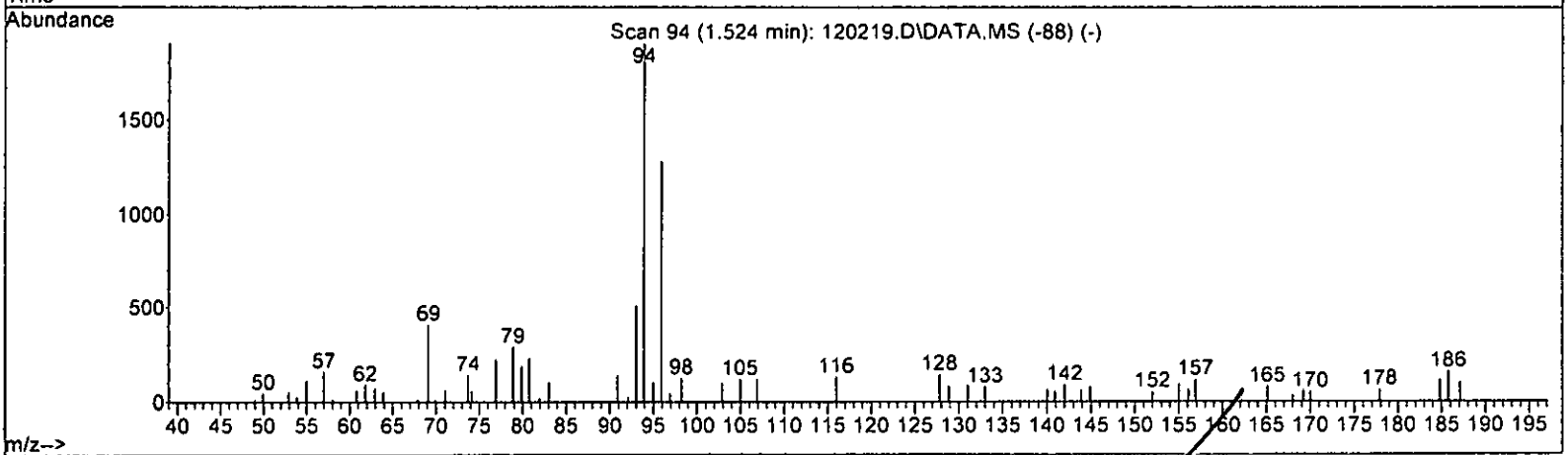
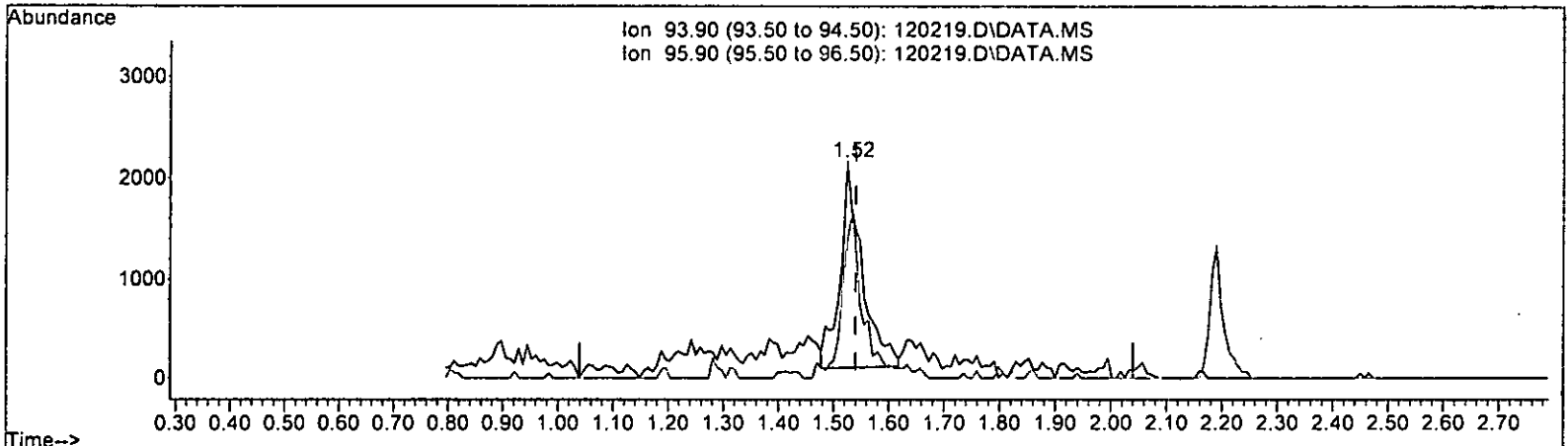
Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

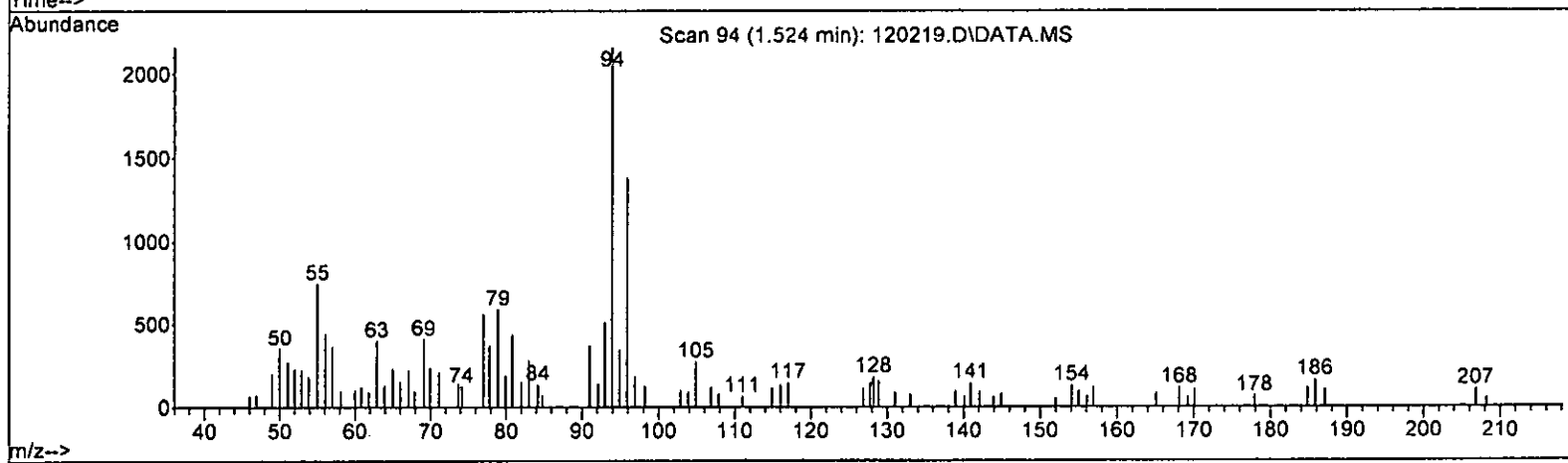
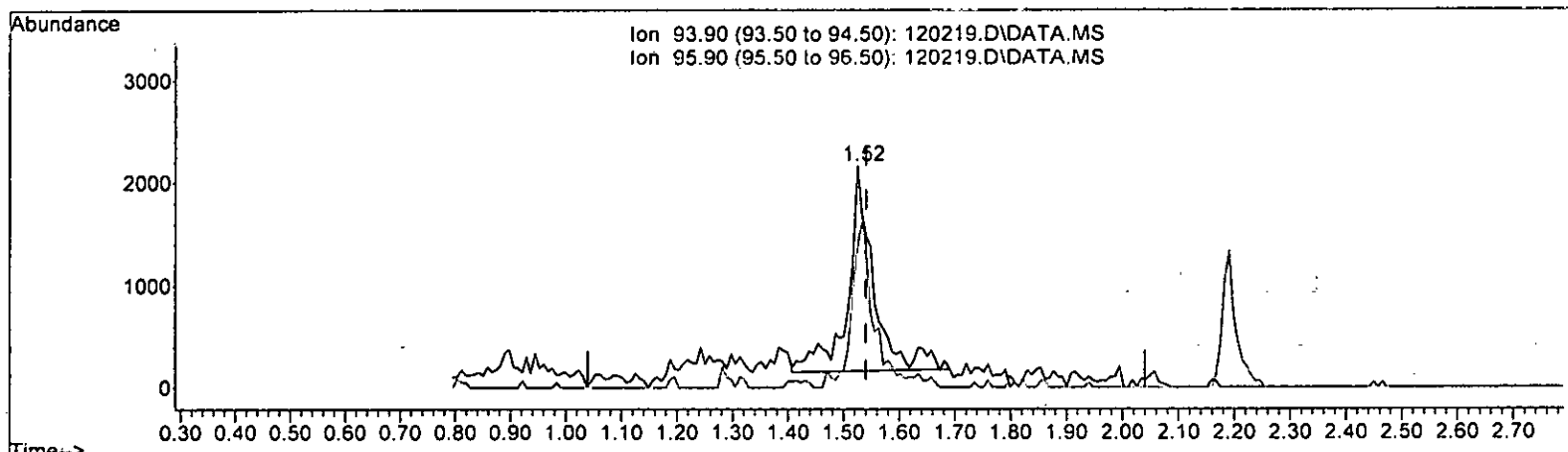
M 125

(7) Bromomethane (TMP)			
1.524min (-0.016) 0.829 ppb			
response		5738	
Ion	Exp%	Act%	
93.90	100.00	100.00	
95.90	63.90	65.06	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 120219.D\DATA.MS

(7) Bromomethane (TMP) *m 12.5*

1.524min (-0.016) 1.256 ppb m

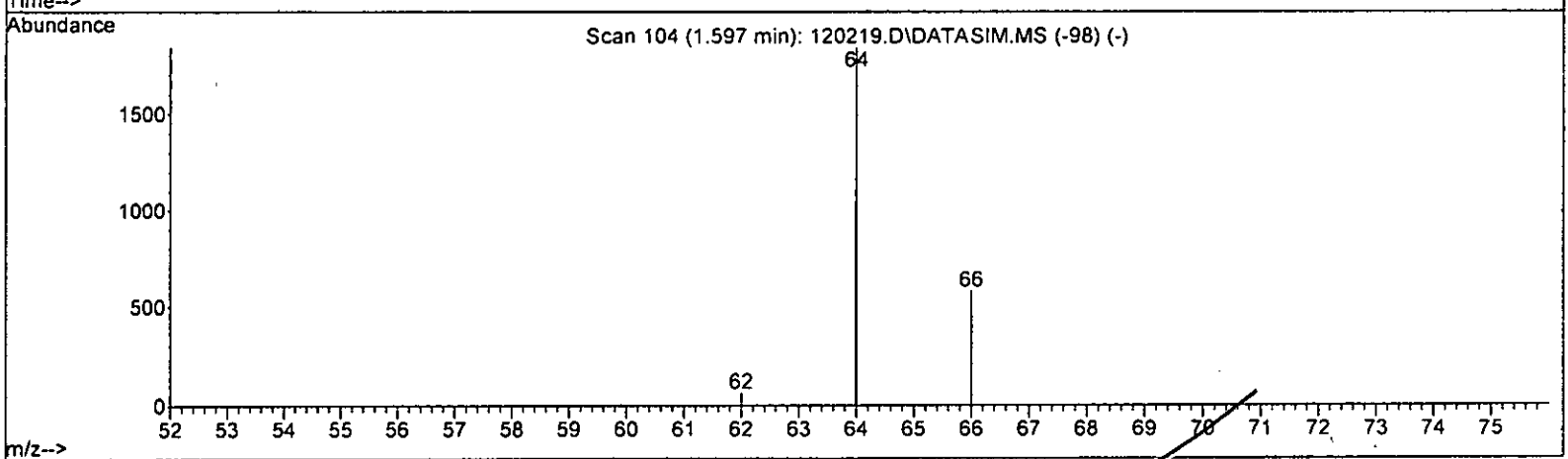
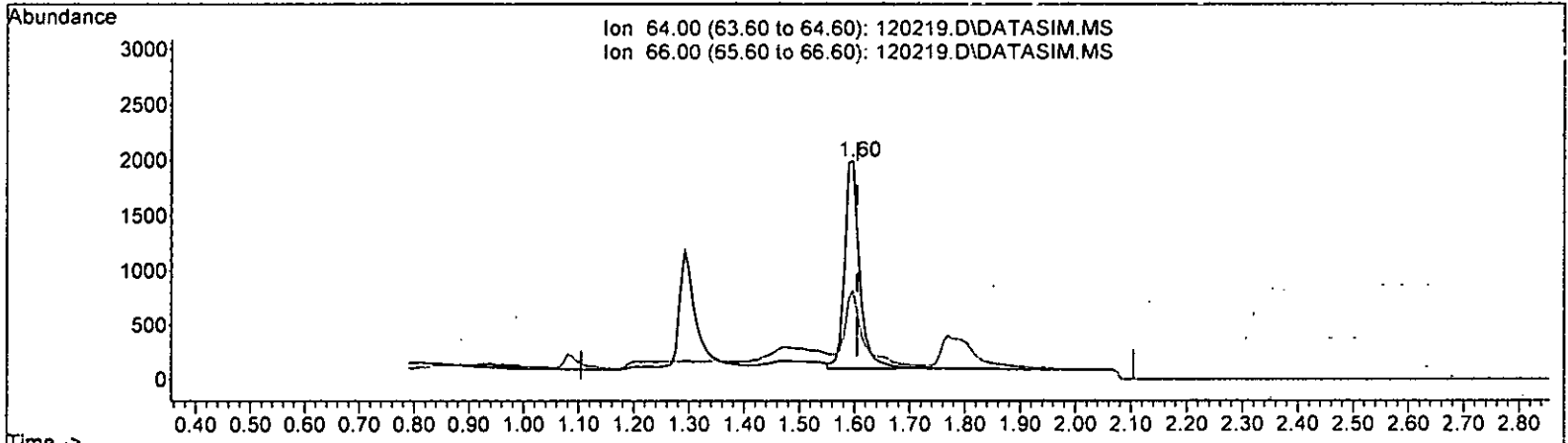
response 6453

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	63.90	63.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

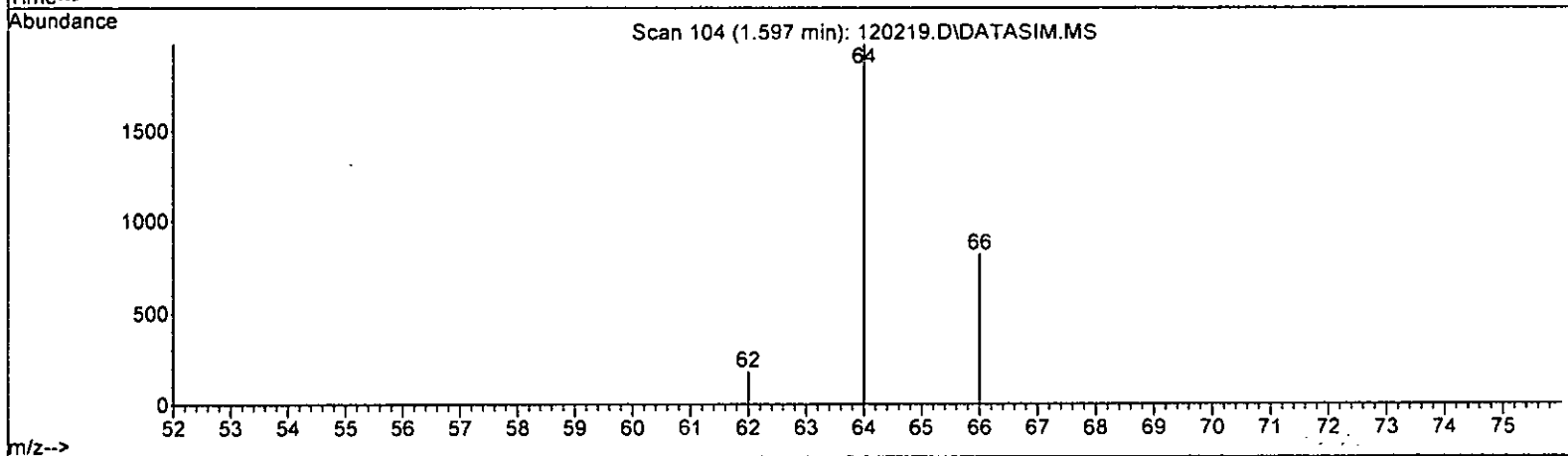
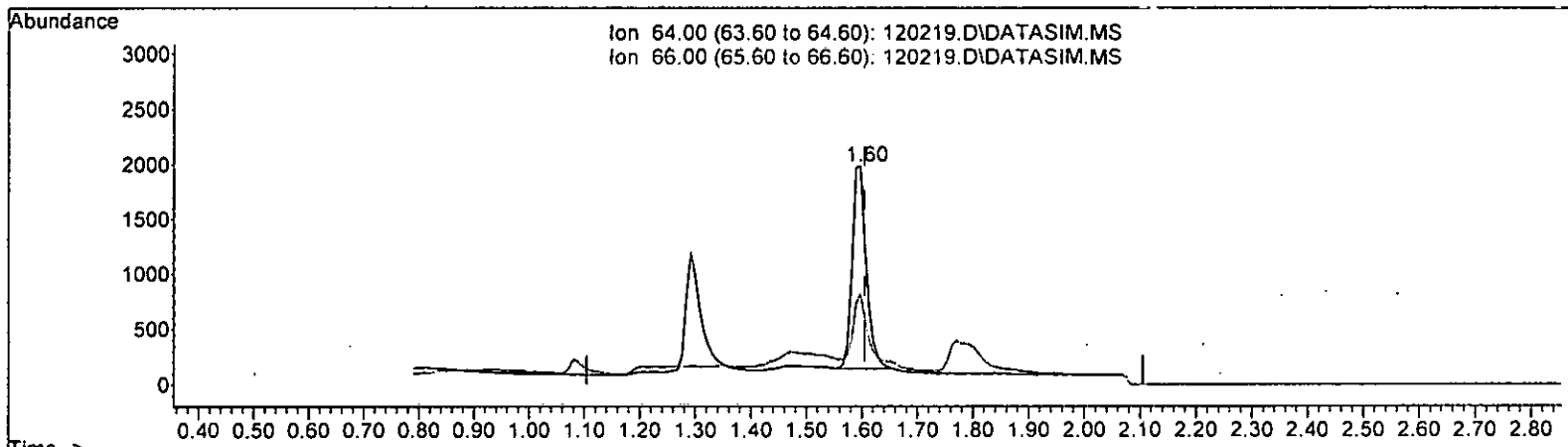
M 12.5

(8) Chloroethane (TMP)		
1.597min (-0.008)	2.368 ppb	
response	3611	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	31.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(8) Chloroethane (TMP)

1.597min (-0.008) 2.133 ppb m

response 3265

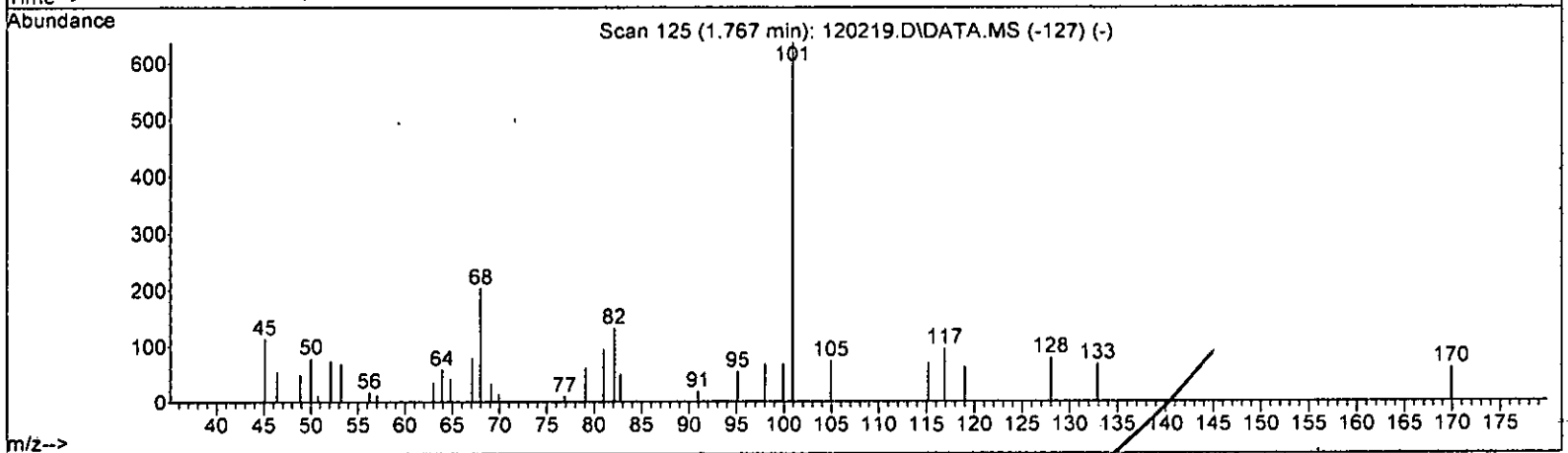
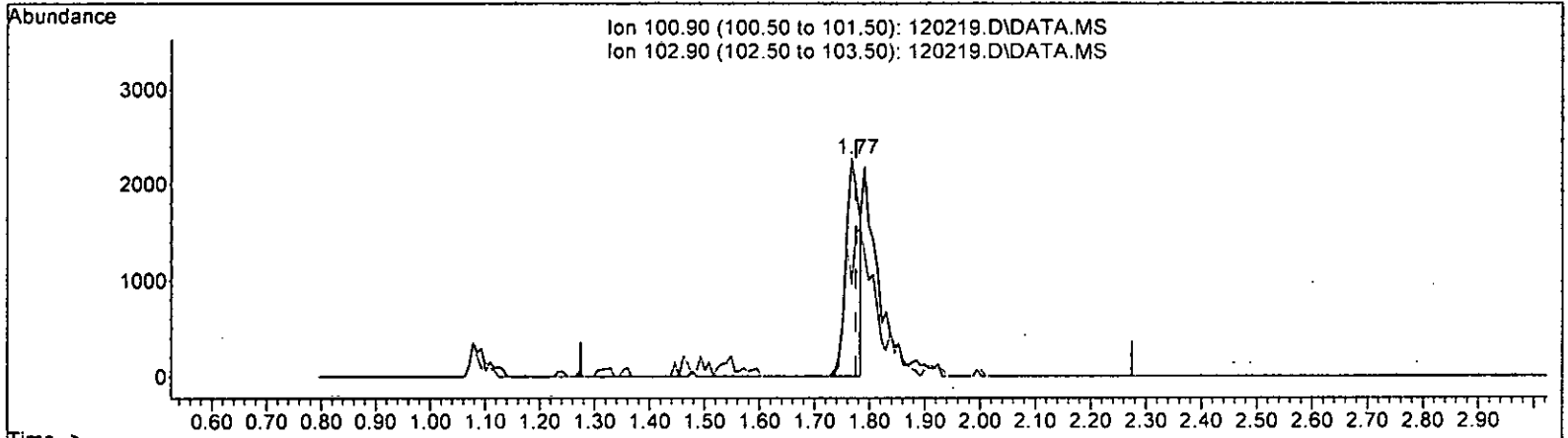
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	41.09
0.00	0.00	0.00
0.00	0.00	0.00

*m 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.767min (-0.008) 0.964 ppb

response 3864

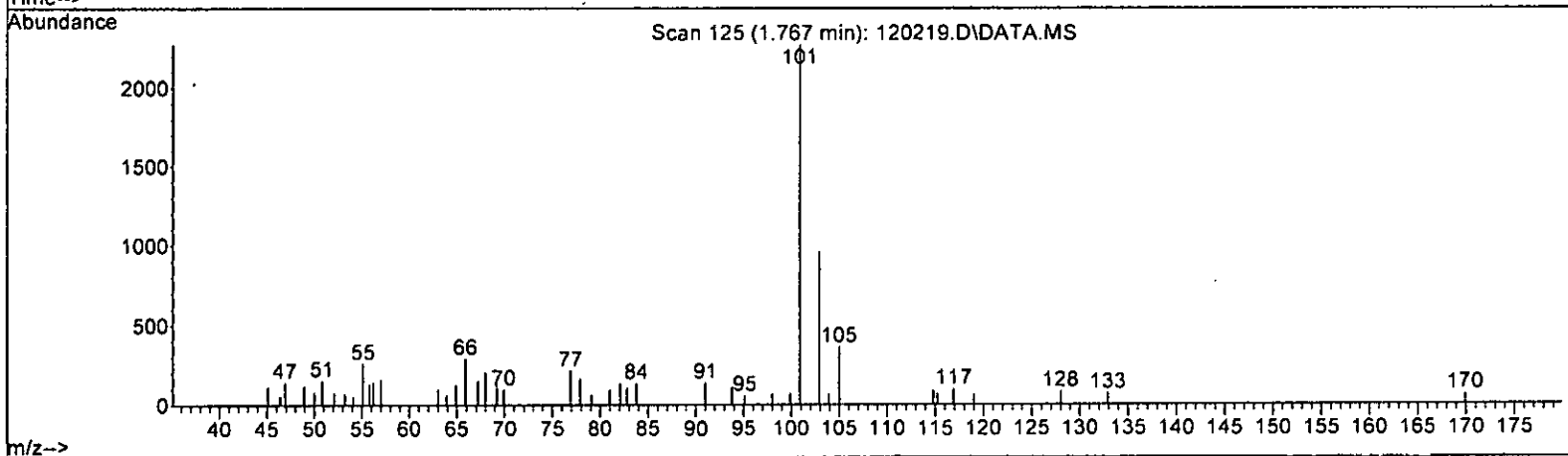
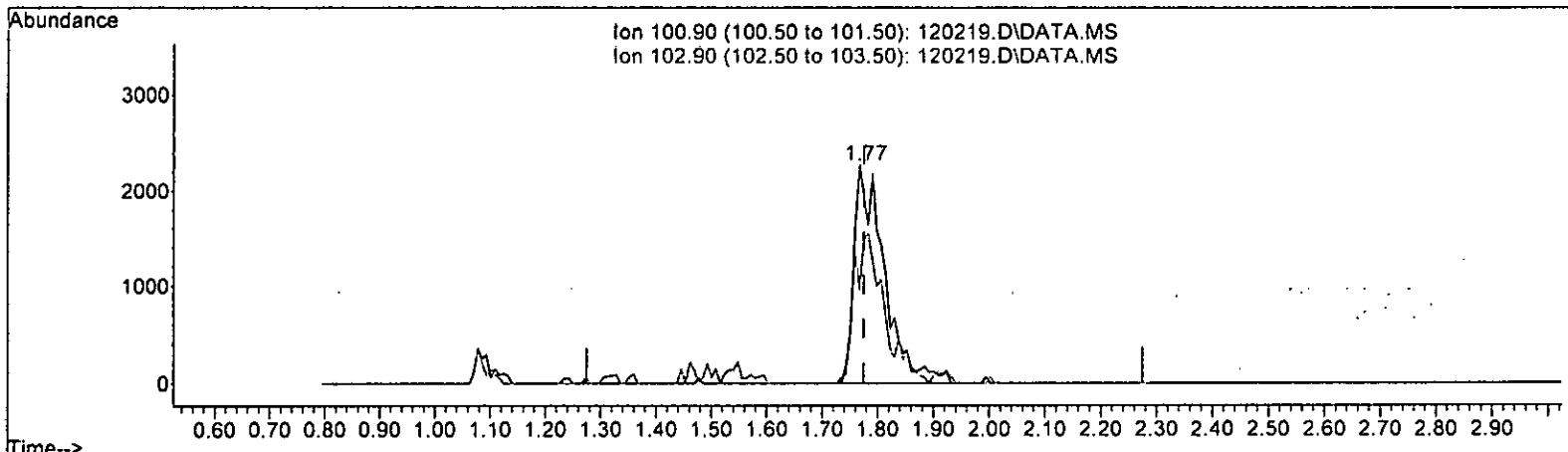
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	42.21
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.767min (-0.008) 2.096 ppb m

response 8407

Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	42.21
0.00	0.00	0.00
0.00	0.00	0.00

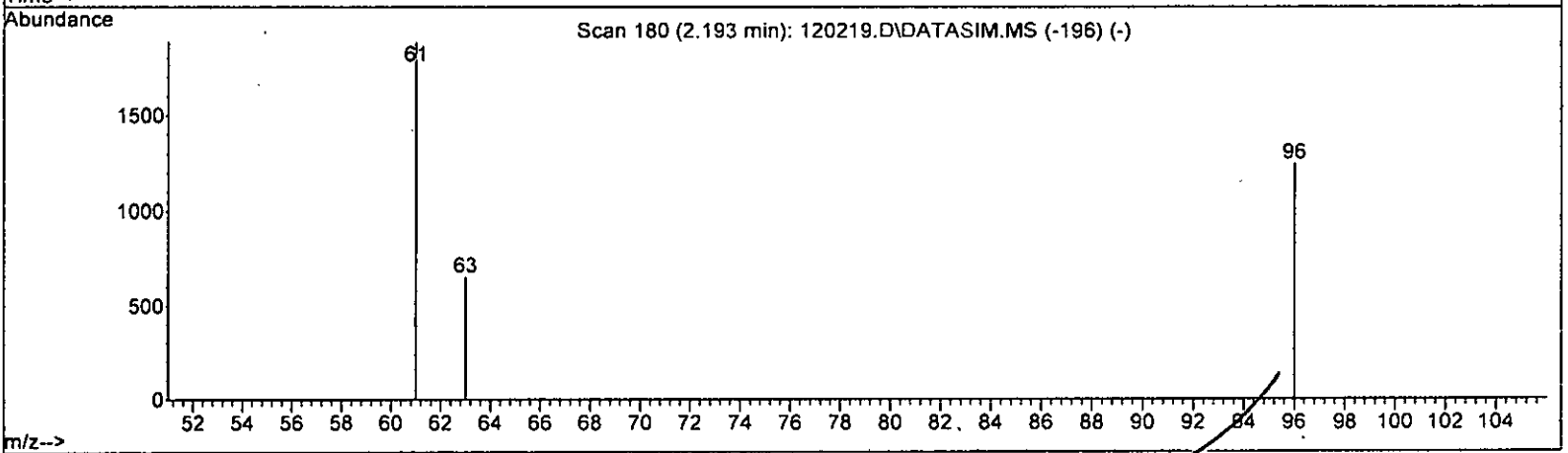
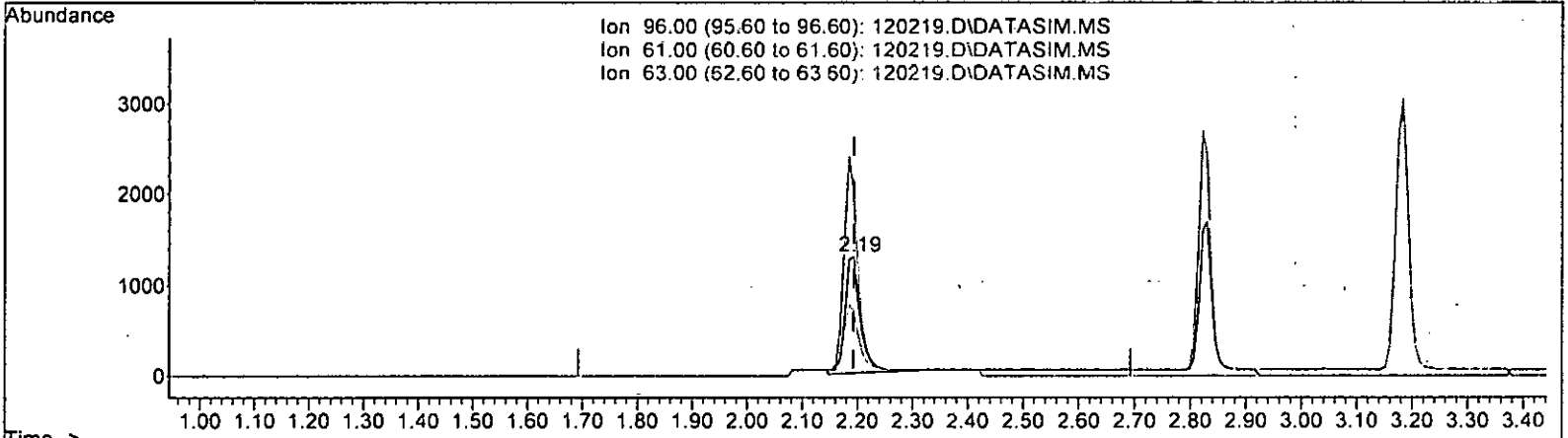
*M 12.5*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 120219.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 2.233 ppb

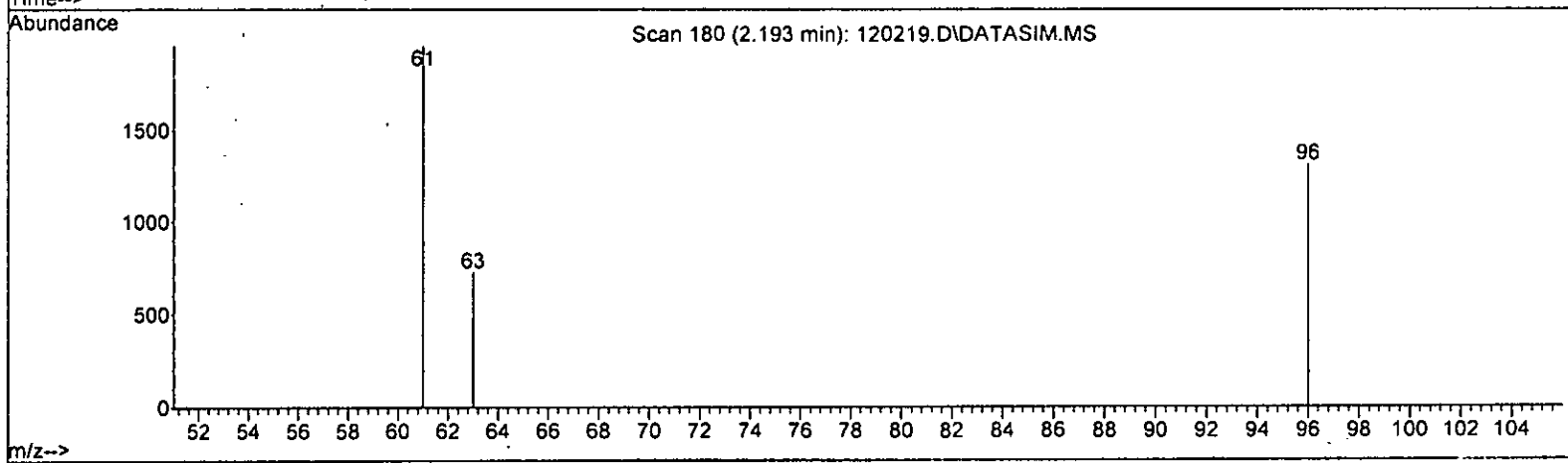
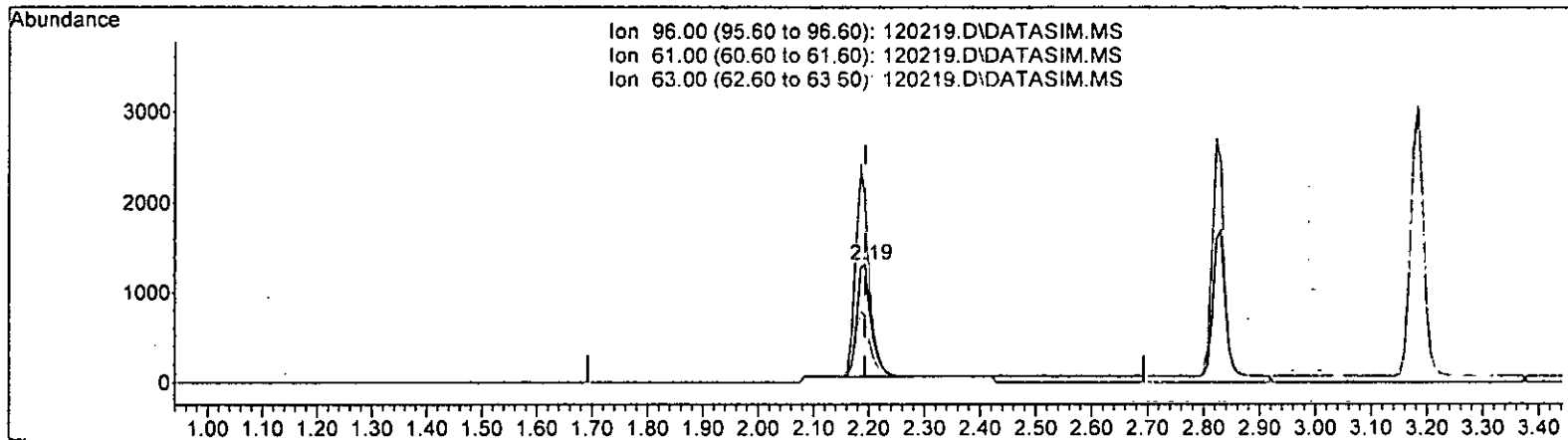
response	2480
Ion	Exp% Act%
96.00	100.00 100.00
61.00	148.60 151.41
63.00	55.30 52.37
0.00	0.00 0.00

*LM* 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)  
 2.193min (-0.000) 2.019 ppb m  
 response 2244

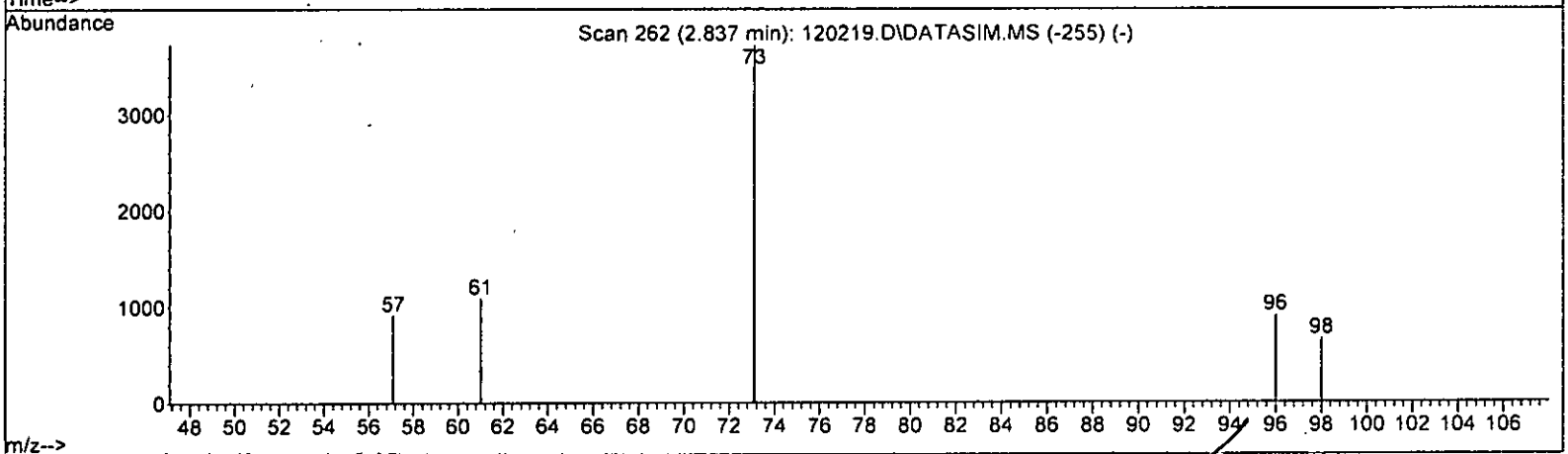
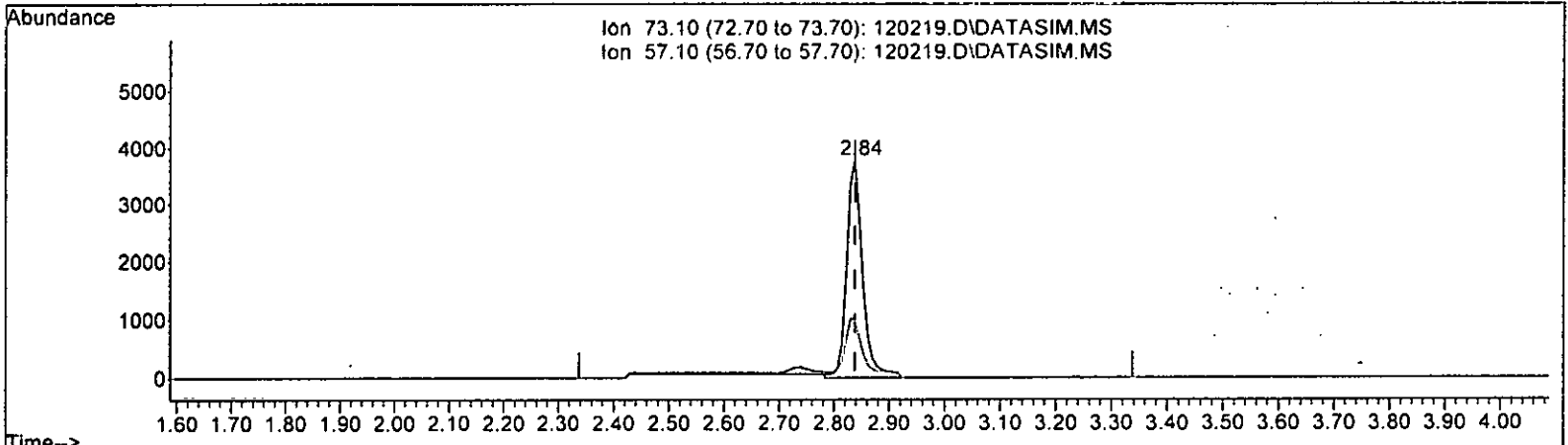
*M 12.5*

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	148.59
63.00	55.30	55.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 2.256 ppb

response 7494

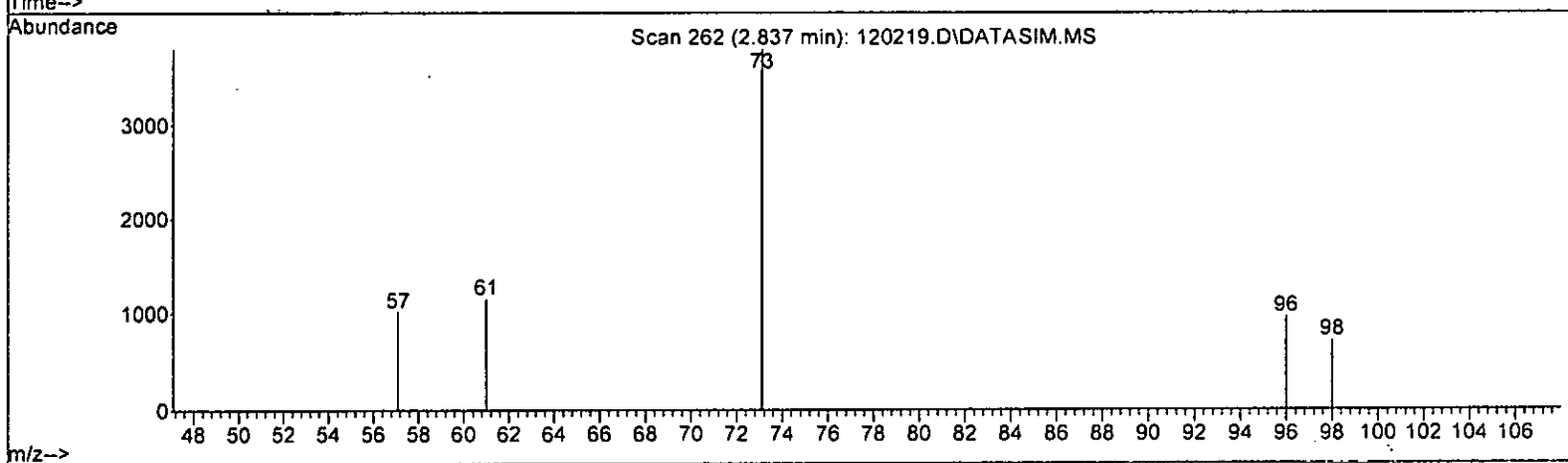
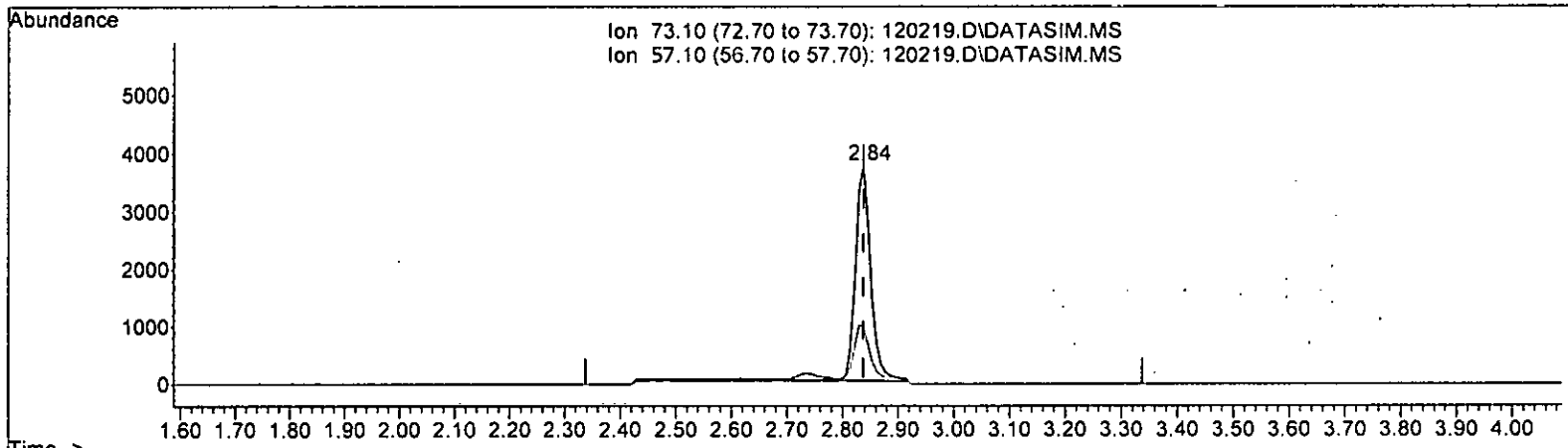
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	26.72
0.00	0.00	0.00
0.00	0.00	0.00

M 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 2.117 ppb m

response 7035

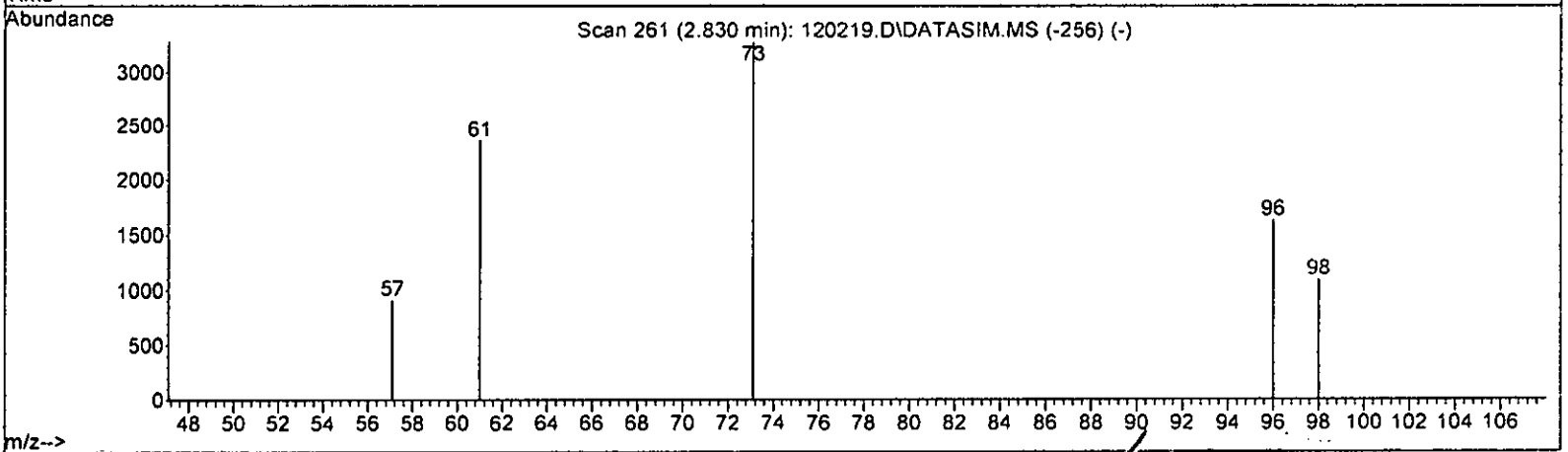
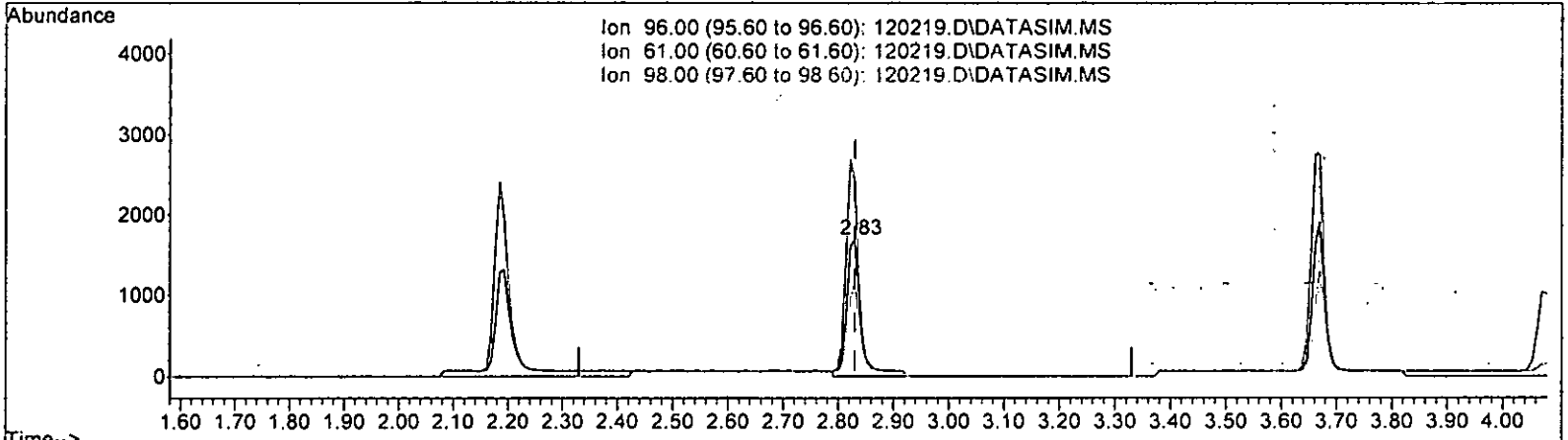
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	26.72
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

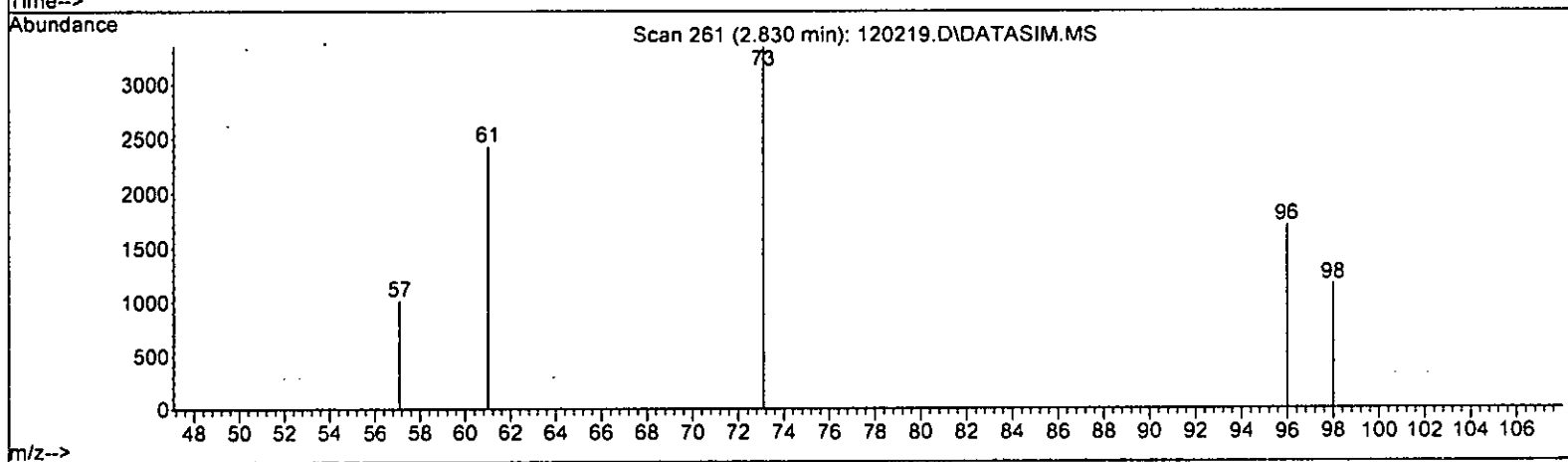
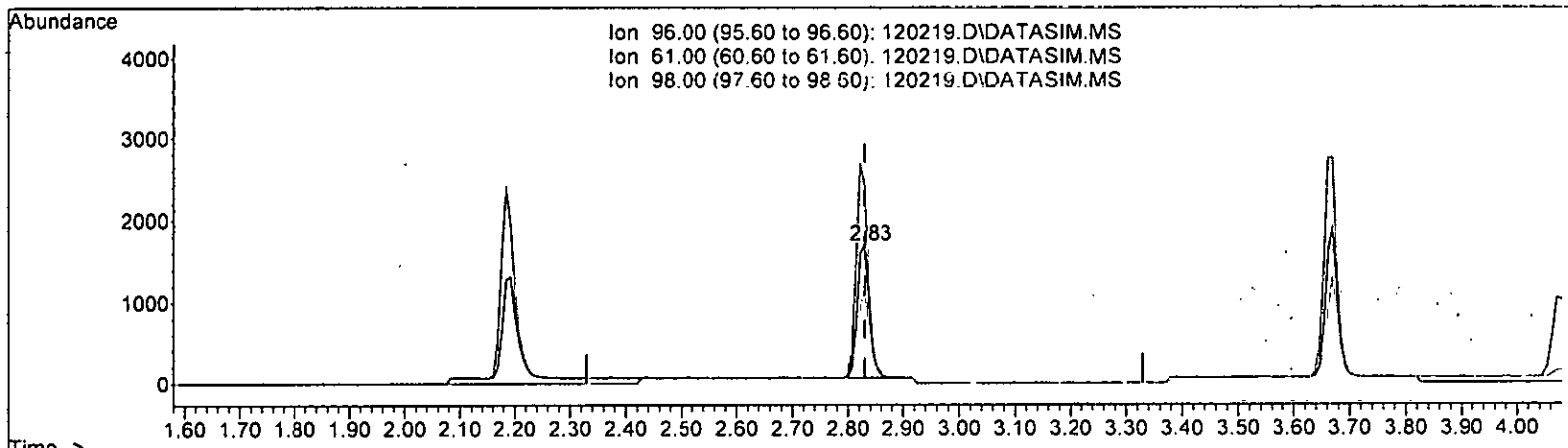
M 12.5

(17) trans-1,2-Dichloroethene (TMP)			
2.830min (-0.000) 2.498 ppb			
response	3008		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	143.10	143.09	
98.00	68.00	68.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 2.081 ppb m

response 2513

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	143.09
98.00	68.00	68.00
0.00	0.00	0.00

*LM 12.5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.924	0.8	100	0.00
4 TMP Dichlorodifluoromethane	2.000	1.967	1.6	100	0.00
5 TMP Chloromethane	2.000	2.043	-2.2	100	0.00
6 TMP Vinyl chloride	2.000	2.071	-3.6	102	0.00
7 TMP Bromomethane	2.000	1.256	37.2#	110	-0.02
8 TMP Chloroethane	2.000	2.133	-6.7	100	0.00
9 TMP Trichlorofluoromethane	2.000	2.096	-4.8	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	10.000	9.845	1.5	100	0.00
12 TMP 1,1-Dichloroethene	2.000	2.019	-1.0	98	0.00
13 TMP Hexane	2.000	2.089	-4.4	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	10.000	10.729	-7.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	2.000	2.117	-5.8	100	0.00
17 TMP trans-1,2-Dichloroethene	2.000	2.081	-4.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	2.000	1.967	1.6	100	0.00
19 TMP 1,1-Dichloroethane	2.000	2.113	-5.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	2.000	1.925	3.7	100	0.00
21 TMP 2,2-Dichloropropane	2.000	2.317	-15.9	100	0.00
22 TMP cis-1,2-Dichloroethene	2.000	2.097	-4.8	100	0.00
23 TMP Chloroform	2.000	2.219	-10.9	100	0.00
24 TMP 2-Butanone (MEK)	10.000	9.267	7.3	100	0.00
25 TMP t-Amyl methyl ether (TAME)	2.000	2.086	-4.3	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	2.000	2.110	-5.5	100	0.00
27 TMP 1,1,1-Trichloroethane	2.000	2.044	-2.2	100	0.00
28 TMP 1,1-Dichloropropene	2.000	2.045	-2.2	100	0.00
29 TMP Carbon tetrachloride	2.000	2.027	-1.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.155	8.5	100	0.00
31 TMP Benzene	2.000	2.071	-3.6	100	0.00
32 TMP Trichloroethene	2.000	2.049	-2.4	100	0.00
33 TMP 1,2-Dichloropropane	2.000	2.107	-5.4	100	0.00
34 TMP Bromodichloromethane	2.000	2.163	-8.1	100	0.00
35 S Toluene-d8	10.000	9.690	3.1	100	0.00
36 TMP Dibromomethane	2.000	2.119	-6.0	100	0.00
37 TMP 4-Methyl-2-pentanone	10.000	9.781	2.2	100	0.00
38 TMP cis-1,3-Dichloropropene	2.000	2.076	-3.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	2.000	2.099	-5.0	100	0.00
41 TMP trans-1,3-Dichloropropene	2.000	2.055	-2.8	100	0.00
42 TMP 1,1,2-Trichloroethane	2.000	2.054	-2.7	100	0.00
43 TMP 2-Hexanone	10.000	10.129	-1.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	2.000	2.065	-3.2	100	0.00
45 TMP Tetrachloroethene	2.000	2.058	-2.9	100	0.00
46 TMP Dibromochloromethane	2.000	1.971	1.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	2.000	2.104	-5.2	100	0.00
48 TMP Chlorobenzene	2.000	2.075	-3.8	100	0.00
49 TMP Ethylbenzene	2.000	2.182	-9.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	2.000	2.047	-2.4	100	0.00
51 TMP m,p-Xylene	4.000	4.289	-7.2	100	0.00
52 TMP o-Xylene	2.000	2.127	-6.3	100	0.00
53 TMP Styrene	2.000	2.110	-5.5	100	0.00
54 TMP Isopropylbenzene	2.000	2.074	-3.7	100	0.00
55 TMP Bromoform	2.000	2.030	-1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.989	0.1	100	0.00
58 TMP n-Propylbenzene	2.000	2.138	-6.9	100	0.00
59 TMP Bromobenzene	2.000	2.113	-5.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.000	2.066	-3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	2.000	2.173	-8.7	100	0.00
62 TMP 1,2,3-Trichloropropane	2.000	2.058	-2.9	100	0.00
63 TMP 2-Chlorotoluene	2.000	2.111	-5.6	100	0.00
64 TMP 4-Chlorotoluene	2.000	2.097	-4.8	100	0.00
65 TMP tert-Butylbenzene	2.000	2.140	-7.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.000	2.060	-3.0	100	0.00
67 TMP sec-Butylbenzene	2.000	2.077	-3.8	100	0.00
68 TMP p-Isopropyltoluene	2.000	2.153	-7.7	100	0.00
69 TMP 1,3-Dichlorobenzene	2.000	2.103	-5.2	100	0.00
70 TMP 1,4-Dichlorobenzene	2.000	2.125	-6.3	100	0.00
71 TMP 1,2-Dichlorobenzene	2.000	2.135	-6.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	2.000	2.186	-9.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	2.000	2.147	-7.3	100	0.00
74 TMP Hexachlorobutadiene	2.000	2.041	-2.0	100	0.00
75 TMP Naphthalene	2.000	1.897	5.1	100	0.00
76 TMP 1,2,3-Trichlorobenzene	2.000	1.967	1.6	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.262	0.8	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.700	1.7	100	0.00
5 TMP Chloromethane	0.951	0.970	-2.0	100	0.00
6 TMP Vinyl chloride	0.862	0.783	9.2	102	0.00
7 TMP Bromomethane	0.441	0.723	-63.9#	110	-0.02
8 TMP Chloroethane	0.341	0.366	-7.3	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.942	-4.8	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.031	0.0	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.252	7.0	98	0.00
13 TMP Hexane	0.469	0.502	-7.0	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.050	-8.7	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.789	2.8	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.282	10.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.937	1.7	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.529	3.3	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.296	3.6	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.378	-8.9	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.309	6.1	100	0.00
23 TMP Chloroform	0.477	0.529	-10.9	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.176	-1.7	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.771	-4.3	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.422	11.9	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.476	3.6	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.377	-2.4	100	0.00
29 TMP Carbon tetrachloride	0.396	0.401	-1.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	100	0.00
31 TMP Benzene	1.103	1.059	4.0	100	0.00
32 TMP Trichloroethene	0.368	0.330	10.3	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.332	-5.4	100	0.00
34 TMP Bromodichloromethane	0.375	0.406	-8.3	100	0.00
35 S Toluene-d8	0.975	0.945	3.1	100	0.00
36 TMP Dibromomethane	0.181	0.192	-6.1	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.053	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.460	-3.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.915	7.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.522	-2.8	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.288	-1.1	100	0.00
43 TMP 2-Hexanone	0.312	0.316	-1.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.500	-3.3	100	0.00
45 TMP Tetrachloroethene	0.420	0.348	17.1	100	0.00
46 TMP Dibromochloromethane	0.366	0.361	1.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.344	9.2	100	0.00
48 TMP Chlorobenzene	0.957	0.993	-3.8	100	0.00
49 TMP Ethylbenzene	1.885	1.768	6.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.367	-2.5	100	0.00
51 TMP m,p-Xylene	0.705	0.665	5.7	100	0.00
52 TMP o-Xylene	0.683	0.646	5.4	100	0.00
53 TMP Styrene	1.004	1.059	-5.5	100	0.00
54 TMP Isopropylbenzene	1.606	1.666	-3.7	100	0.00
55 TMP Bromoform	0.269	0.273	-1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.863	0.1	100	0.00
58 TMP n-Propylbenzene	3.386	3.619	-6.9	100	0.00
59 TMP Bromobenzene	0.790	0.834	-5.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.563	-3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.797	-8.7	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.616	-2.8	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.168	-5.6	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.469	-4.8	100	0.00
65 TMP tert-Butylbenzene	2.194	2.348	-7.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.652	-3.0	100	0.00
67 TMP sec-Butylbenzene	3.160	3.281	-3.8	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.913	-7.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.544	-5.1	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.591	-6.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.452	-6.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.173	-9.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	1.050	-7.4	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.526	-1.9	100	0.00
75 TMP Naphthalene	2.401	2.277	5.2	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.871	1.6	100	0.00

(#) = Out of Range

SPCC's out = 2 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	44600	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35263	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	18806	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	11665	9.924	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.20%		
30) 1,2-Dichloroethane-d4	4.35	102	2434	9.155	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	91.50%		
35) Toluene-d8	5.98	98	42155	9.690	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	96.90%		
57) 4-Bromofluorobenzene	8.38	95	16232	9.989	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	99.90%		
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.08	85	6241	1.967	ppb		100
5) Chloromethane	1.22	50	8648	2.043	ppb		100
6] Vinyl chloride	1.29	62	6988	2.071	ppb		96
7) Bromomethane	1.52	94	6453m	1.256	ppb		
8] Chloroethane	1.60	64	3265m	2.133	ppb		
9) Trichlorofluoromethane	1.77	101	8407m	2.096	ppb		
10) 2-Propanol	2.39	45	280	No Calib			
11) Acetone	2.26	58	1370	9.845	ppb		100
12] 1,1-Dichloroethene	2.19	96	2244m	2.019	ppb		
13) Hexane	3.05	57	4478	2.089	ppb		100
14) Methylene chloride	0.00		0	N.D.			
15) t-Butyl alcohol (TBA)	2.73	59	2214	10.729	ppb		100
16] Methyl t-butyl ether (...)	2.84	73	7035m	2.117	ppb		
17] trans-1,2-Dichloroethene	2.83	96	2513m	2.081	ppb		
18) Diisopropyl ether (DIPE)	3.24	45	8356	1.967	ppb		100
19] 1,1-Dichloroethane	3.18	63	4723	2.113	ppb		100
20) Ethyl t-butyl ether (E...)	3.55	87	2639	1.925	ppb		100
21) 2,2-Dichloropropane	3.67	77	3370	2.317	ppb		100
22] cis-1,2-Dichloroethene	3.67	96	2759	2.097	ppb		100
23) Chloroform	3.94	83	4717	2.219	ppb		100
24) 2-Butanone (MEK)	3.71	43	7841	9.267	ppb		100
25) t-Amyl methyl ether (T...)	4.49	73	6873	2.086	ppb		100
26] 1,2-Dichloroethane (EDC)	4.41	62	3763	2.110	ppb		100
27] 1,1,1-Trichloroethane	4.08	97	4246	2.044	ppb		100
28) 1,1-Dichloropropene	4.22	75	3359	2.045	ppb		100
29) Carbon tetrachloride	4.21	117	3581	2.027	ppb		100
31] Benzene	4.39	78	9449	2.071	ppb		100
32] Trichloroethene	4.93	95	2947	2.049	ppb		100
33) 1,2-Dichloropropane	5.13	63	2958	2.107	ppb	#	100
34) Bromodichloromethane	5.37	83	3620	2.163	ppb		100
36) Dibromomethane	5.22	93	1714	2.119	ppb		100

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

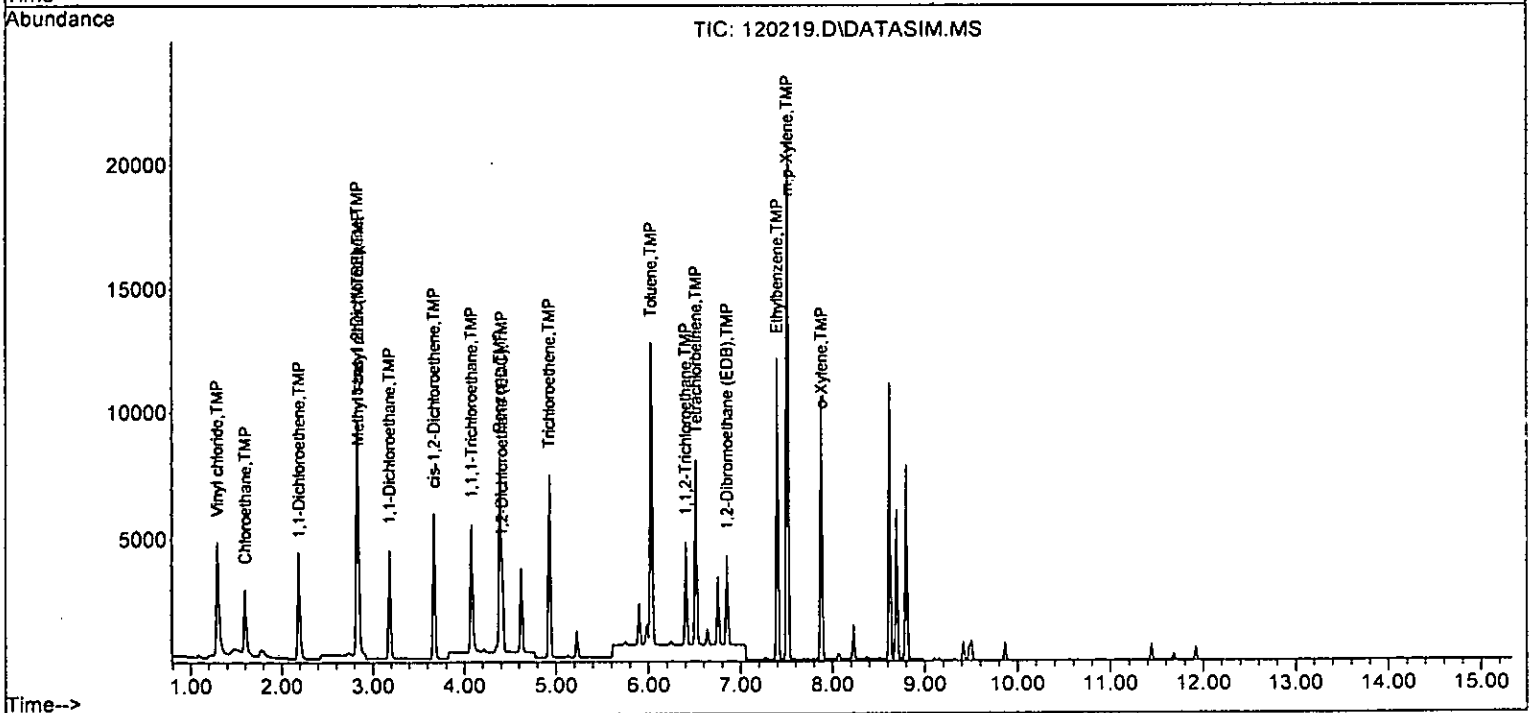
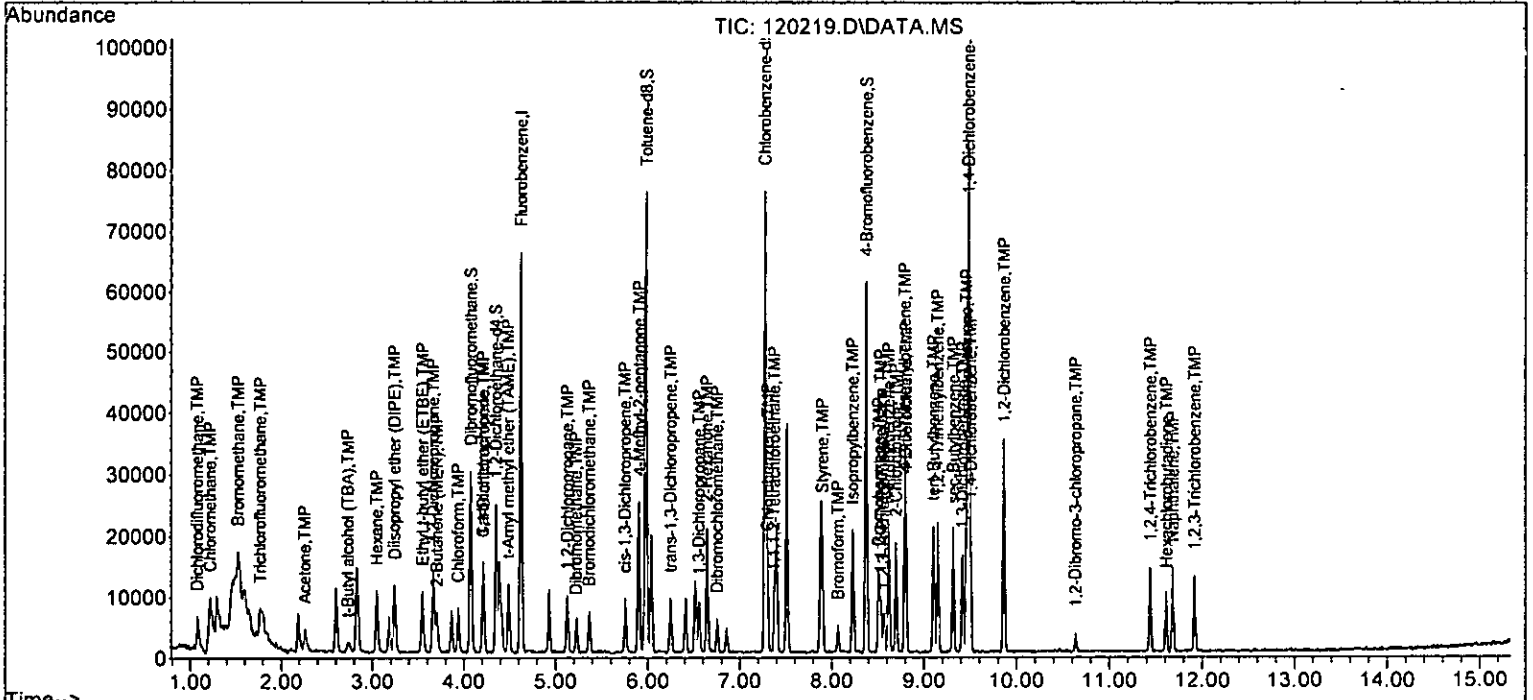
Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	2362	9.781	ppb	100
38) cis-1,3-Dichloropropene	5.75	75	4103	2.076	ppb	100
40] Toluene	6.03	92	6454	2.099	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	3678	2.055	ppb	100
42] 1,1,2-Trichloroethane	6.40	83	2028	2.054	ppb	100
43) 2-Hexanone	6.64	43	11128	10.129	ppb	100
44) 1,3-Dichloropropane	6.55	76	3527	2.065	ppb	100
45] Tetrachloroethene	6.51	164	2452	2.058	ppb	100
46) Dibromochloromethane	6.75	129	2545	1.971	ppb	100
47] 1,2-Dibromoethane (EDB)	6.85	107	2426	2.104	ppb	100
48) Chlorobenzene	7.30	112	7003	2.075	ppb	100
49] Ethylbenzene	7.40	91	12470	2.182	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.37	131	2585	2.047	ppb	100
51] m,p-Xylene	7.51	106	9374	4.289	ppb	100
52] o-Xylene	7.88	106	4558	2.127	ppb	100
53) Styrene	7.90	104	7472	2.110	ppb	100
54) Isopropylbenzene	8.23	105	11747	2.074	ppb	100
55) Bromoform	8.07	173	1926	2.030	ppb	100
58) n-Propylbenzene	8.62	91	13613	2.138	ppb	100
59) Bromobenzene	8.51	156	3138	2.113	ppb	100
60) 1,3,5-Trimethylbenzene	8.79	105	9640	2.066	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	2997	2.173	ppb	100
62) 1,2,3-Trichloropropane	8.56	75	2317	2.058	ppb	100
63) 2-Chlorotoluene	8.70	91	8155	2.111	ppb	100
64) 4-Chlorotoluene	8.81	91	9285	2.097	ppb	100
65) tert-Butylbenzene	9.10	119	8830	2.140	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	9975	2.060	ppb	100
67) sec-Butylbenzene	9.32	105	12342	2.077	ppb	100
68) p-Isopropyltoluene	9.46	119	10956	2.153	ppb	100
69) 1,3-Dichlorobenzene	9.42	146	5809	2.103	ppb	100
70) 1,4-Dichlorobenzene	9.50	146	5984	2.125	ppb	100
71) 1,2-Dichlorobenzene	9.86	146	5463	2.135	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.63	75	650	2.186	ppb	100
73) 1,2,4-Trichlorobenzene	11.44	180	3950	2.147	ppb	100
74) Hexachlorobutadiene	11.61	225	1979	2.041	ppb	100
75) Naphthalene	11.68	128	8565	1.897	ppb	100
76) 1,2,3-Trichlorobenzene	11.92	180	3275	1.967	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	45348	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35641	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19209	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11926	9.979	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.80%
30) 1,2-Dichloroethane-d4	4.36	102	2665	9.858	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	98.60%
35) Toluene-d8	5.98	98	43063	9.735	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	97.40%
57) 4-Bromofluorobenzene	8.38	95	16882	10.171	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	101.70%
Target Compounds						
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.09	85	15267	4.731	ppb	93
5) Chloromethane	1.23	50	18676	4.618	ppb	96
6] Vinyl chloride	1.30	62	16294	4.788	ppb	90
7) Bromomethane	1.55	94	11861m	4.370	ppb	
8] Chloroethane	1.60	64	7709	5.066	ppb	80
9) Trichlorofluoromethane	1.77	101	19233m	4.717	ppb	
10) 2-Propanol	2.41	45	194	No Calib		
11) Acetone	2.27	58	3294	23.280	ppb	92
12] 1,1-Dichloroethene	2.20	96	5590	4.974	ppb	95
13) Hexane	3.05	57	9349	4.631	ppb	94
14) Methylene chloride	2.61	84	6955	5.105	ppb	87
15) t-Butyl alcohol (TBA)	2.74	59	5271	25.122	ppb	99
16] Methyl t-butyl ether (...)	2.85	73	17079	5.081	ppb	97
17] trans-1,2-Dichloroethene	2.84	96	6418	5.279	ppb	99
18) Diisopropyl ether (DIPE)	3.25	45	19825	4.589	ppb	100
19] 1,1-Dichloroethane	3.19	63	11132	4.922	ppb	98
20) Ethyl t-butyl ether (E...)	3.55	87	6454	4.631	ppb	99
21) 2,2-Dichloropropane	3.67	77	7105	4.999	ppb	91
22] cis-1,2-Dichloroethene	3.67	96	6495	4.888	ppb	88
23) Chloroform	3.95	83	10178	4.710	ppb	97
24) 2-Butanone (MEK)	3.71	43	17984	22.943	ppb	98
25) t-Amyl methyl ether (T...)	4.50	73	16096	4.805	ppb	96
26] 1,2-Dichloroethane (EDC)	4.42	62	8801	4.907	ppb	97
27] 1,1,1-Trichloroethane	4.08	97	10066	4.783	ppb	94
28) 1,1-Dichloropropene	4.22	75	7750	4.641	ppb	89
29) Carbon tetrachloride	4.22	117	8690	4.839	ppb	99
31] Benzene	4.39	78	22322	4.837	ppb	94
32] Trichloroethene	4.93	95	7013	4.837	ppb	90
33) 1,2-Dichloropropane	5.13	63	6473	4.534	ppb	100
34) Bromodichloromethane	5.37	83	8090	4.754	ppb	98
36) Dibromomethane	5.23	93	3768	4.582	ppb	82

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

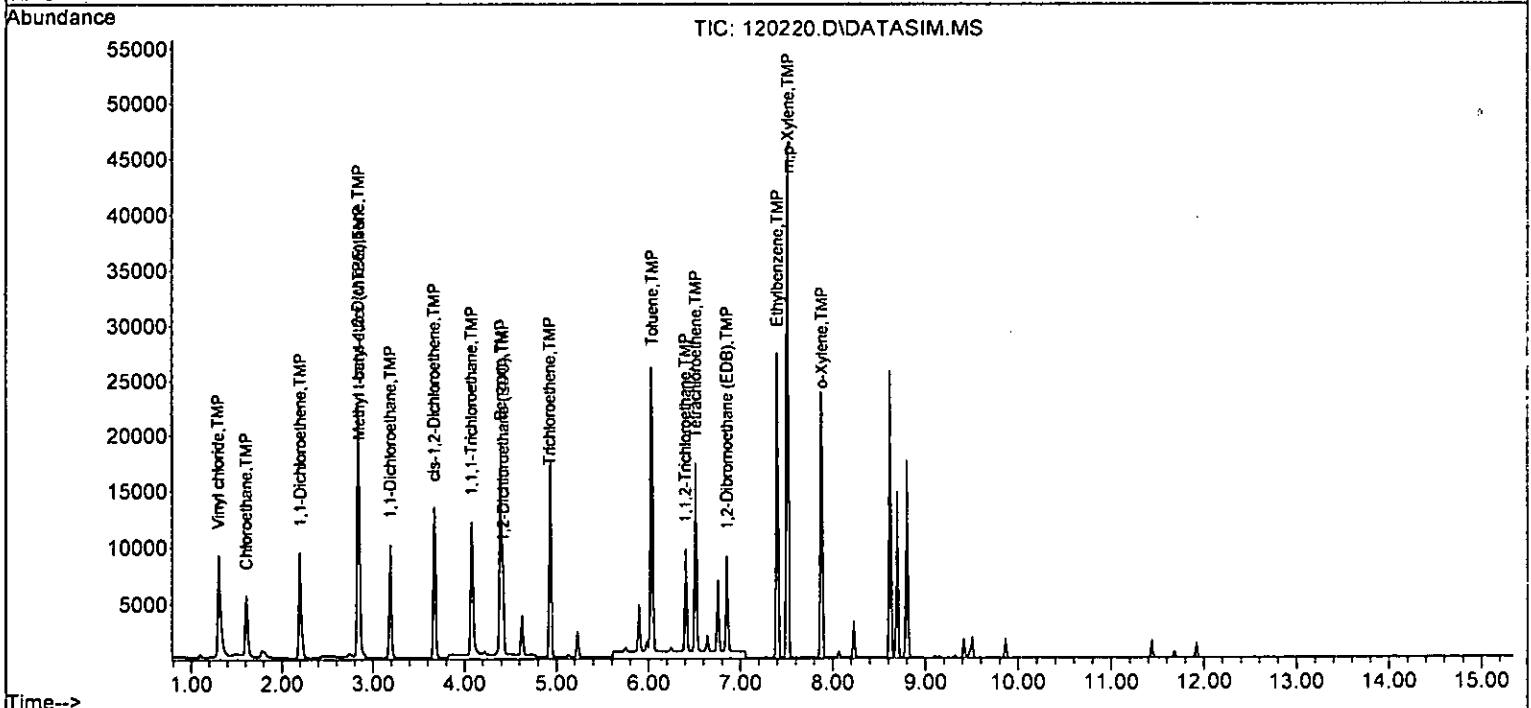
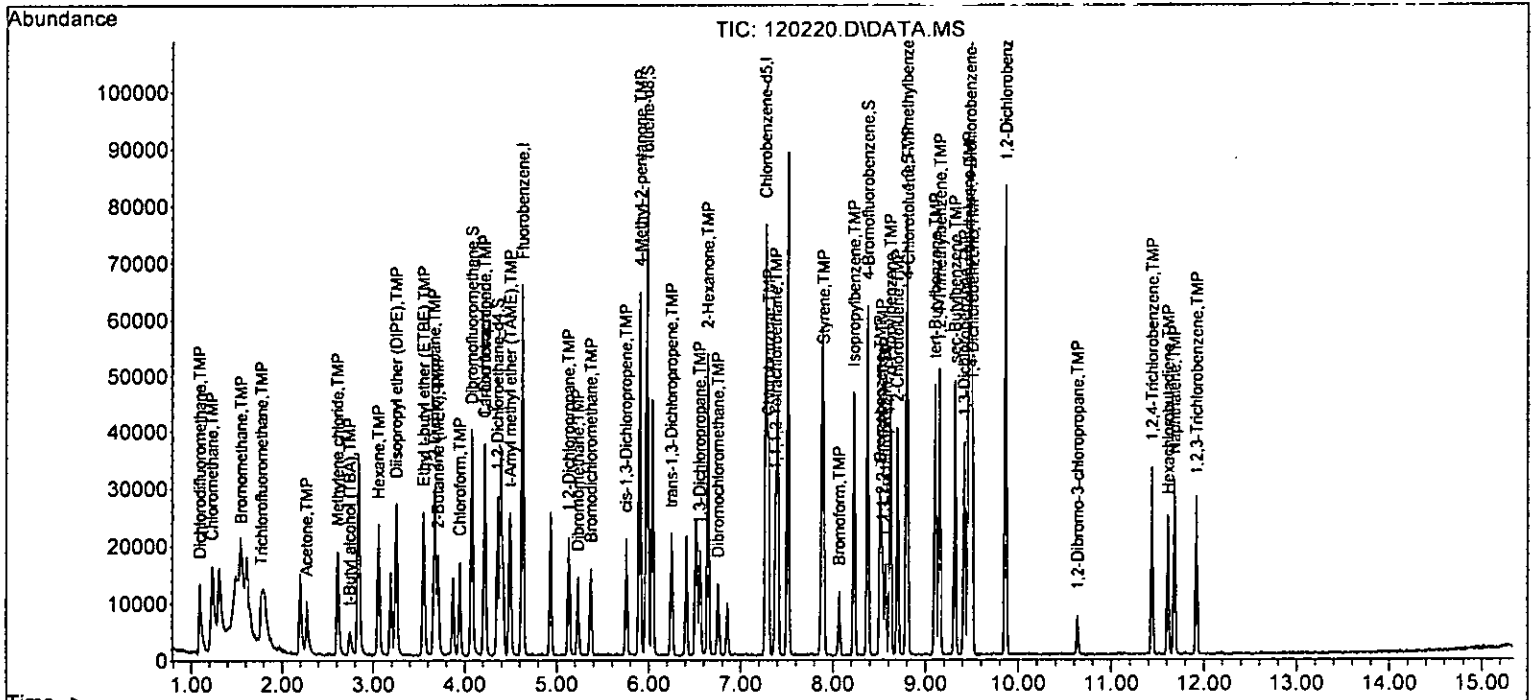
Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	5373	21.882	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	9565	4.761	ppb	91
40] Toluene	6.04	92	15181	4.921	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	8770	4.847	ppb	91
42] 1,1,2-Trichloroethane	6.40	83	4779	4.821	ppb	95
43) 2-Hexanone	6.64	43	28243	25.434	ppb	99
44) 1,3-Dichloropropane	6.55	76	8478	4.911	ppb	94
45] Tetrachloroethene	6.51	164	5721	4.822	ppb	98
46) Dibromochloromethane	6.75	129	6320	4.843	ppb	93
47] 1,2-Dibromoethane (EDB)	6.85	107	5660	4.900	ppb	100
48) Chlorobenzene	7.30	112	15620	4.579	ppb	99
49] Ethylbenzene	7.40	91	29153	5.091	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	6023	4.718	ppb	86
51] m,p-Xylene	7.52	106	21754	9.923	ppb #	74
52] o-Xylene	7.88	106	10625	4.939	ppb	96
53) Styrene	7.90	104	17119	4.783	ppb	92
54) Isopropylbenzene	8.23	105	27794	4.855	ppb	88
55) Bromoform	8.07	173	4427	4.616	ppb	93
58) n-Propylbenzene	8.62	91	31396	4.827	ppb	89
59) Bromobenzene	8.51	156	7456	4.916	ppb	88
60) 1,3,5-Trimethylbenzene	8.80	105	23084	4.843	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	7170	5.089	ppb	74
62) 1,2,3-Trichloropropane	8.57	75	5498	4.780	ppb	96
63) 2-Chlorotoluene	8.70	91	19366	4.908	ppb	98
64) 4-Chlorotoluene	8.81	91	21649	4.786	ppb	95
65) tert-Butylbenzene	9.10	119	20199	4.793	ppb	94
66) 1,2,4-Trimethylbenzene	9.15	105	23871	4.827	ppb	100
67) sec-Butylbenzene	9.31	105	29083	4.791	ppb	98
68) p-Isopropyltoluene	9.46	119	24684	4.748	ppb	94
69) 1,3-Dichlorobenzene	9.42	146	13244	4.693	ppb	91
70) 1,4-Dichlorobenzene	9.50	146	13687	4.758	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	13034	4.987	ppb	91
72) 1,2-Dibromo-3-chloropr...	10.64	75	1478	4.865	ppb	82
73) 1,2,4-Trichlorobenzene	11.44	180	8522	4.534	ppb	94
74) Hexachlorobutadiene	11.61	225	4888	4.936	ppb	97
75) Naphthalene	11.68	128	20755	4.499	ppb	96
76) 1,2,3-Trichlorobenzene	11.92	180	7711	4.533	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	9.979	0.2	100	0.00
4 TMP	Dichlorodifluoromethane	5.000	4.731	5.4	100	0.00
5 TMP	Chloromethane	5.000	4.618	7.6	100	0.00
6 TMP	Vinyl chloride	5.000	4.788	4.2	102	0.00
7 TMP	Bromomethane	5.000	4.370	12.6	120	0.00
8 TMP	Chloroethane	5.000	5.066	-1.3	106	0.00
9 TMP	Trichlorofluoromethane	5.000	4.717	5.7	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	25.000	23.280	6.9	100	0.00
12 TMP	1,1-Dichloroethene	5.000	4.974	0.5	105	0.00
13 TMP	Hexane	5.000	4.631	7.4	100	0.00
14 TMP	Methylene chloride	5.000	5.105	-2.1	100	0.00
15 TMP	t-Butyl alcohol (TBA)	25.000	25.122	-0.5	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	5.000	5.081	-1.6	103	0.00
17 TMP	trans-1,2-Dichloroethene	5.000	5.279	-5.6	107	0.00
18 TMP	Diisopropyl ether (DIPE)	5.000	4.589	8.2	100	0.00
19 TMP	1,1-Dichloroethane	5.000	4.922	1.6	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	5.000	4.631	7.4	100	0.00
21 TMP	2,2-Dichloropropane	5.000	4.999	0.0	100	0.00
22 TMP	cis-1,2-Dichloroethene	5.000	4.888	2.2	100	0.00
23 TMP	Chloroform	5.000	4.710	5.8	100	0.00
24 TMP	2-Butanone (MEK)	25.000	22.943	8.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	5.000	4.805	3.9	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	5.000	4.907	1.9	100	0.00
27 TMP	1,1,1-Trichloroethane	5.000	4.783	4.3	100	0.00
28 TMP	1,1-Dichloropropene	5.000	4.641	7.2	100	0.00
29 TMP	Carbon tetrachloride	5.000	4.839	3.2	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.858	1.4	100	0.00
31 TMP	Benzene	5.000	4.837	3.3	100	0.00
32 TMP	Trichloroethene	5.000	4.837	3.3	100	0.00
33 TMP	1,2-Dichloropropane	5.000	4.534	9.3	100	0.00
34 TMP	Bromodichloromethane	5.000	4.754	4.9	100	0.00
35 S	Toluene-d8	10.000	9.735	2.7	100	0.00
36 TMP	Dibromomethane	5.000	4.582	8.4	100	0.00
37 TMP	4-Methyl-2-pentanone	25.000	21.882	12.5	100	0.00
38 TMP	cis-1,3-Dichloropropene	5.000	4.761	4.8	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	5.000	4.921	1.6	100	0.01
41 TMP	trans-1,3-Dichloropropene	5.000	4.847	3.1	100	0.00
42 TMP	1,1,2-Trichloroethane	5.000	4.821	3.6	100	0.00
43 TMP	2-Hexanone	25.000	25.434	-1.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	5.000	4.911	1.8	100	0.00
45 TMP Tetrachloroethene	5.000	4.822	3.6	100	0.00
46 TMP Dibromochloromethane	5.000	4.843	3.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	5.000	4.900	2.0	100	0.00
48 TMP Chlorobenzene	5.000	4.579	8.4	100	0.00
49 TMP Ethylbenzene	5.000	5.091	-1.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	5.000	4.718	5.6	100	0.00
51 TMP m,p-Xylene	10.000	9.923	0.8	100	0.00
52 TMP o-Xylene	5.000	4.939	1.2	100	0.00
53 TMP Styrene	5.000	4.783	4.3	100	0.00
54 TMP Isopropylbenzene	5.000	4.855	2.9	100	0.00
55 TMP Bromoform	5.000	4.616	7.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.171	-1.7	100	0.00
58 TMP n-Propylbenzene	5.000	4.827	3.5	100	0.00
59 TMP Bromobenzene	5.000	4.916	1.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	5.000	4.843	3.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	5.000	5.089	-1.8	100	0.00
62 TMP 1,2,3-Trichloropropane	5.000	4.780	4.4	100	0.00
63 TMP 2-Chlorotoluene	5.000	4.908	1.8	100	0.00
64 TMP 4-Chlorotoluene	5.000	4.786	4.3	100	0.00
65 TMP tert-Butylbenzene	5.000	4.793	4.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	5.000	4.827	3.5	100	0.00
67 TMP sec-Butylbenzene	5.000	4.791	4.2	100	0.00
68 TMP p-Isopropyltoluene	5.000	4.748	5.0	100	0.00
69 TMP 1,3-Dichlorobenzene	5.000	4.693	6.1	100	0.00
70 TMP 1,4-Dichlorobenzene	5.000	4.758	4.8	100	0.00
71 TMP 1,2-Dichlorobenzene	5.000	4.987	0.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	5.000	4.865	2.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	5.000	4.534	9.3	100	0.00
74 TMP Hexachlorobutadiene	5.000	4.936	1.3	100	0.00
75 TMP Naphthalene	5.000	4.499	10.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	5.000	4.533	9.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	#	-1.86#
3 S Dibromofluoromethane	0.264	0.263	0.4	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.673	5.5	100	0.00
5 TMP Chloromethane	0.951	0.824	13.4	100	0.00
6 TMP Vinyl chloride	0.862	0.719	16.6	102	0.00
7 TMP Bromomethane	0.441	0.523	-18.6	120	0.00
8 TMP Chloroethane	0.341	0.340	0.3	106	0.00
9 TMP Trichlorofluoromethane	0.899	0.848	5.7	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	#	0.00
11 TMP Acetone	0.031	0.029	6.5	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.247	8.9	105	0.00
13 TMP Hexane	0.469	0.412	12.2	100	0.00
14 TMP Methylene chloride	0.269	0.307	-14.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.753	7.3	103	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.283	9.9	107	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.874	8.3	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.491	10.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.285	7.2	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.313	9.8	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.286	13.1	100	0.00
23 TMP Chloroform	0.477	0.449	5.9	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.159	8.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.710	3.9	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.388	19.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.444	10.1	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.342	7.1	100	0.00
29 TMP Carbon tetrachloride	0.396	0.383	3.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.059	1.7	100	0.00
31 TMP Benzene	1.103	0.984	10.8	100	0.00
32 TMP Trichloroethene	0.368	0.309	16.0	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.285	9.5	100	0.00
34 TMP Bromodichloromethane	0.375	0.357	4.8	100	0.00
35 S Toluene-d8	0.975	0.950	2.6	100	0.00
36 TMP Dibromomethane	0.181	0.166	8.3	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.047	13.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.422	4.7	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.852	13.6	100	0.01
41 TMP trans-1,3-Dichloropropene	0.508	0.492	3.1	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.268	6.0	100	0.00
43 TMP 2-Hexanone	0.312	0.317	-1.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.476	1.7	100	0.00
45 TMP Tetrachloroethene	0.420	0.321	23.6#	100	0.00
46 TMP Dibromochloromethane	0.366	0.355	3.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.318	16.1	100	0.00
48 TMP Chlorobenzene	0.957	0.877	8.4	100	0.00
49 TMP Ethylbenzene	1.885	1.636	13.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.338	5.6	100	0.00
51 TMP m,p-Xylene	0.705	0.610	13.5	100	0.00
52 TMP o-Xylene	0.683	0.596	12.7	100	0.00
53 TMP Styrene	1.004	0.961	4.3	100	0.00
54 TMP Isopropylbenzene	1.606	1.560	2.9	100	0.00
55 TMP Bromoform	0.269	0.248	7.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.879	-1.7	100	0.00
58 TMP n-Propylbenzene	3.386	3.269	3.5	100	0.00
59 TMP Bromobenzene	0.790	0.776	1.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.403	3.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.747	-1.9	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.572	4.5	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.016	1.9	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.254	4.3	100	0.00
65 TMP tert-Butylbenzene	2.194	2.103	4.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.485	3.5	100	0.00
67 TMP sec-Butylbenzene	3.160	3.028	4.2	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.570	5.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.379	6.1	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.425	4.9	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.357	0.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.154	2.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.887	9.3	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.509	1.4	100	0.00
75 TMP Naphthalene	2.401	2.161	10.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.803	9.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.896	1.0	100	0.00
4 TMP Dichlorodifluoromethane	10.000	10.035	-0.4	100	0.00
5 TMP Chloromethane	10.000	9.532	4.7	100	0.00
6 TMP Vinyl chloride	10.000	10.328	-3.3	100	0.00
7 TMP Bromomethane	10.000	9.679	3.2	101	0.00
8 TMP Chloroethane	10.000	10.838	-8.4	100	0.00
9 TMP Trichlorofluoromethane	10.000	9.502	5.0	90	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	49.347	1.3	100	0.00
12 TMP 1,1-Dichloroethene	10.000	10.318	-3.2	100	0.00
13 TMP Hexane	10.000	10.067	-0.7	100	0.00
14 TMP Methylene chloride	10.000	9.781	2.2	100	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	49.556	0.9	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.591	-5.9	100	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.777	-7.8	100	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.646	3.5	100	0.00
19 TMP 1,1-Dichloroethane	10.000	10.444	-4.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.326	-3.3	100	0.00
21 TMP 2,2-Dichloropropane	10.000	9.829	1.7	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	10.331	-3.3	100	0.00
23 TMP Chloroform	10.000	9.757	2.4	100	0.00
24 TMP 2-Butanone (MEK)	50.000	54.072	-8.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	9.789	2.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	10.370	-3.7	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.096	-1.0	100	0.00
28 TMP 1,1-Dichloropropene	10.000	9.929	0.7	100	0.00
29 TMP Carbon tetrachloride	10.000	9.984	0.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.097	-1.0	100	0.00
31 TMP Benzene	10.000	10.146	-1.5	100	0.00
32 TMP Trichloroethene	10.000	10.335	-3.4	100	0.00
33 TMP 1,2-Dichloropropane	10.000	9.365	6.3	100	0.00
34 TMP Bromodichloromethane	10.000	9.534	4.7	100	0.00
35 S Toluene-d8	10.000	10.316	-3.2	100	0.00
36 TMP Dibromomethane	10.000	9.706	2.9	100	0.00
37 TMP 4-Methyl-2-pentanone	50.000	50.737	-1.5	100	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.897	1.0	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	10.000	10.088	-0.9	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.993	0.1	100	0.00
42 TMP 1,1,2-Trichloroethane	10.000	9.891	1.1	100	0.00
43 TMP 2-Hexanone	50.000	50.642	-1.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM511\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	9.901	1.0	100	0.00
45 TMP Tetrachloroethene	10.000	9.960	0.4	100	0.00
46 TMP Dibromochloromethane	10.000	9.928	0.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.022	-0.2	100	0.00
48 TMP Chlorobenzene	10.000	9.741	2.6	100	0.00
49 TMP Ethylbenzene	10.000	10.490	-4.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.501	5.0	100	0.00
51 TMP m,p-Xylene	20.000	20.246	-1.2	100	0.00
52 TMP o-Xylene	10.000	10.130	-1.3	100	0.00
53 TMP Styrene	10.000	9.869	1.3	100	0.00
54 TMP Isopropylbenzene	10.000	9.818	1.8	100	0.00
55 TMP Bromoform	10.000	9.603	4.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.896	1.0	100	0.00
58 TMP n-Propylbenzene	10.000	9.921	0.8	100	0.00
59 TMP Bromobenzene	10.000	9.726	2.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.742	2.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.812	1.9	100	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.764	2.4	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.530	4.7	100	0.00
64 TMP 4-Chlorotoluene	10.000	9.733	2.7	100	0.00
65 TMP tert-Butylbenzene	10.000	9.787	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.604	4.0	100	0.00
67 TMP sec-Butylbenzene	10.000	9.850	1.5	100	0.00
68 TMP p-Isopropyltoluene	10.000	9.988	0.1	100	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.571	4.3	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.680	3.2	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.098	-1.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.225	7.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.572	4.3	100	0.00
74 TMP Hexachlorobutadiene	10.000	9.923	0.8	100	0.00
75 TMP Naphthalene	10.000	9.397	6.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.666	3.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.261	1.1	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	0.828	12.9	100	0.00
6 TMP Vinyl chloride	0.862	0.772	10.4	100	0.00
7 TMP Bromomethane	0.441	0.461	-4.5	101	0.00
8 TMP Chloroethane	0.341	0.361	-5.9	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.854	5.0	90	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.031	0.0	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.255	5.9	100	0.00
13 TMP Hexane	0.469	0.432	7.9	100	0.00
14 TMP Methylene chloride	0.269	0.276	-2.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.784	3.4	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.288	8.3	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.919	3.6	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.520	4.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.317	-3.3	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.303	12.7	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.302	8.2	100	0.00
23 TMP Chloroform	0.477	0.465	2.5	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.180	-4.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.723	2.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.408	14.8	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.468	5.3	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.366	0.5	100	0.00
29 TMP Carbon tetrachloride	0.396	0.395	0.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	1.103	1.029	6.7	100	0.00
32 TMP Trichloroethene	0.368	0.329	10.6	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.295	6.3	100	0.00
34 TMP Bromodichloromethane	0.375	0.358	4.5	100	0.00
35 S Toluene-d8	0.975	1.006	-3.2	100	0.00
36 TMP Dibromomethane	0.181	0.176	2.8	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.055	-1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.439	0.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.871	11.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.507	0.2	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.274	3.9	100	0.00
43 TMP 2-Hexanone	0.312	0.316	-1.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.480	0.8	100	0.00
45 TMP Tetrachloroethene	0.420	0.330	21.4#	100	0.00
46 TMP Dibromochloromethane	0.366	0.364	0.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.324	14.5	100	0.00
48 TMP Chlorobenzene	0.957	0.932	2.6	100	0.00
49 TMP Ethylbenzene	1.885	1.680	10.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.340	5.0	100	0.00
51 TMP m,p-Xylene	0.705	0.621	11.9	100	0.00
52 TMP o-Xylene	0.683	0.610	10.7	100	0.00
53 TMP Styrene	1.004	0.991	1.3	100	0.00
54 TMP Isopropylbenzene	1.606	1.577	1.8	100	0.00
55 TMP Bromoform	0.269	0.258	4.1	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.855	1.0	100	0.00
58 TMP n-Propylbenzene	3.386	3.359	0.8	100	0.00
59 TMP Bromobenzene	0.790	0.768	2.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.418	2.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.720	1.8	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.585	2.3	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.958	4.7	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.292	2.7	100	0.00
65 TMP tert-Butylbenzene	2.194	2.147	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.473	4.0	100	0.00
67 TMP sec-Butylbenzene	3.160	3.112	1.5	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.703	0.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.406	4.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.450	3.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.374	-1.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.146	7.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.937	4.2	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.512	0.8	100	0.00
75 TMP Naphthalene	2.401	2.257	6.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.856	3.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	43527	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35359	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19116	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	11352	9.896	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.00%		
30) 1,2-Dichloroethane-d4	4.36	102	2620	10.097	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	101.00%		
35) Toluene-d8	5.98	98	43798	10.316	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	103.20%		
57) 4-Bromofluorobenzene	8.38	95	16346	9.896	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	99.00%		
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	1.09	85	31081	10.035	ppb	97	
5) Chloromethane	1.23	50	36022	9.532	ppb	96	
6] Vinyl chloride	1.30	62	33620	10.328	ppb	94	
7) Bromomethane	1.54	94	20057	9.679	ppb	72	
8] Chloroethane	1.61	64	15694	10.838	ppb	83	
9) Trichlorofluoromethane	1.78	101	37188	9.502	ppb	62	
10) 2-Propanol	2.40	45	416	No Calib			
11) Acetone	2.27	58	6702	49.347	ppb	# 84	
12] 1,1-Dichloroethene	2.19	96	11109	10.318	ppb	# 80	
13) Hexane	3.06	57	18819	10.067	ppb	95	
14) Methylene chloride	2.61	84	12000	9.781	ppb	# 80	
15) t-Butyl alcohol (TBA)	2.74	59	9980	49.556	ppb	95	
16] Methyl t-butyl ether (...)	2.84	73	34108	10.591	ppb	99	
17] trans-1,2-Dichloroethene	2.83	96	12535	10.777	ppb	89	
18) Diisopropyl ether (DIPE)	3.24	45	39996	9.646	ppb	98	
19] 1,1-Dichloroethane	3.18	63	22625	10.444	ppb	96	
20) Ethyl t-butyl ether (E...)	3.55	87	13812	10.326	ppb	89	
21) 2,2-Dichloropropane	3.67	77	13178	9.829	ppb	85	
22] cis-1,2-Dichloroethene	3.67	96	13141	10.331	ppb	94	
23) Chloroform	3.94	83	20237	9.757	ppb	95	
24) 2-Butanone (MEK)	3.71	43	39134	54.072	ppb	98	
25) t-Amyl methyl ether (T...)	4.50	73	31473	9.789	ppb	98	
26] 1,2-Dichloroethane (EDC)	4.42	62	17774	10.370	ppb	96	
27] 1,1,1-Trichloroethane	4.08	97	20367	10.096	ppb	97	
28) 1,1-Dichloropropene	4.22	75	15913	9.929	ppb	95	
29) Carbon tetrachloride	4.21	117	17212	9.984	ppb	95	
31] Benzene	4.39	78	44807	10.146	ppb	93	
32] Trichloroethene	4.93	95	14336	10.335	ppb	95	
33) 1,2-Dichloropropane	5.13	63	12834	9.365	ppb	100	
34) Bromodichloromethane	5.37	83	15573	9.534	ppb	92	
36) Dibromomethane	5.23	93	7661	9.706	ppb	# 80	

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

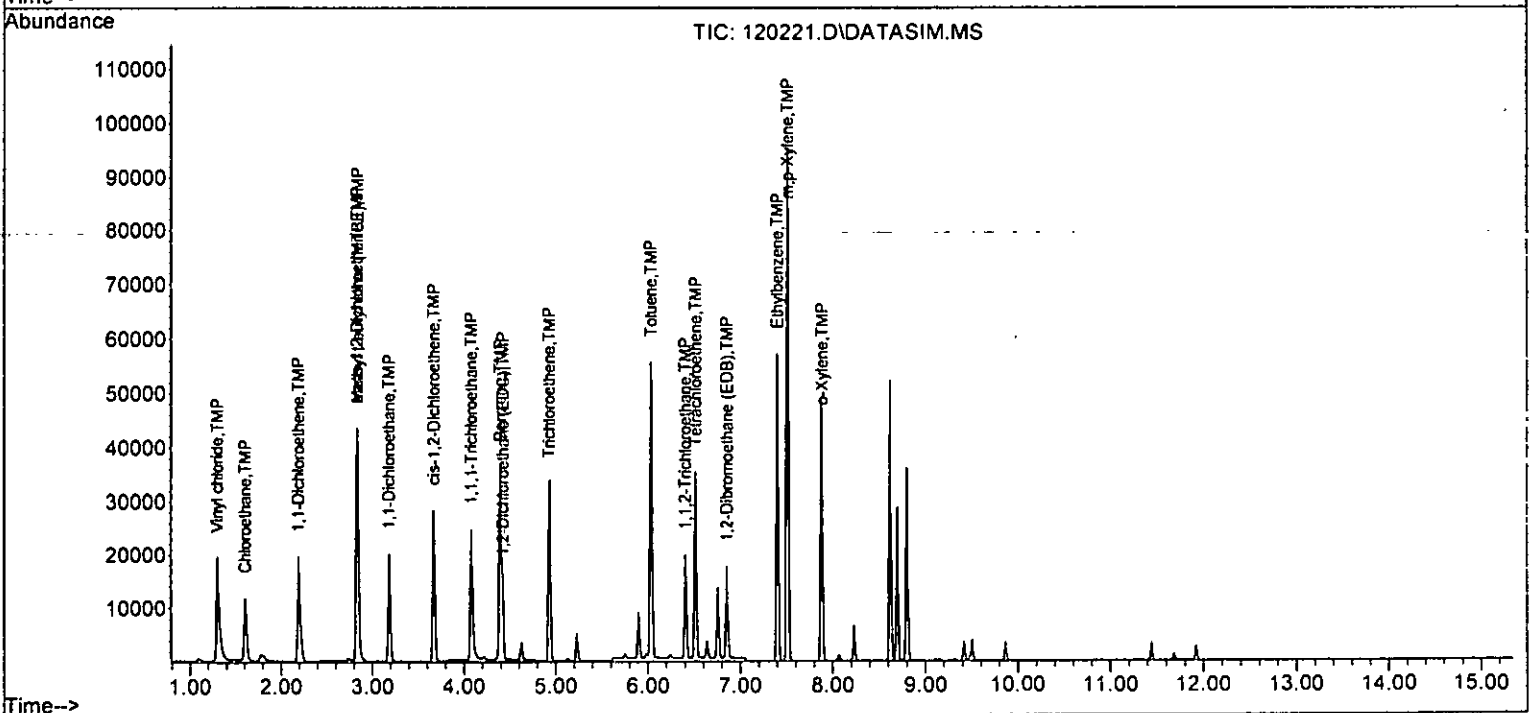
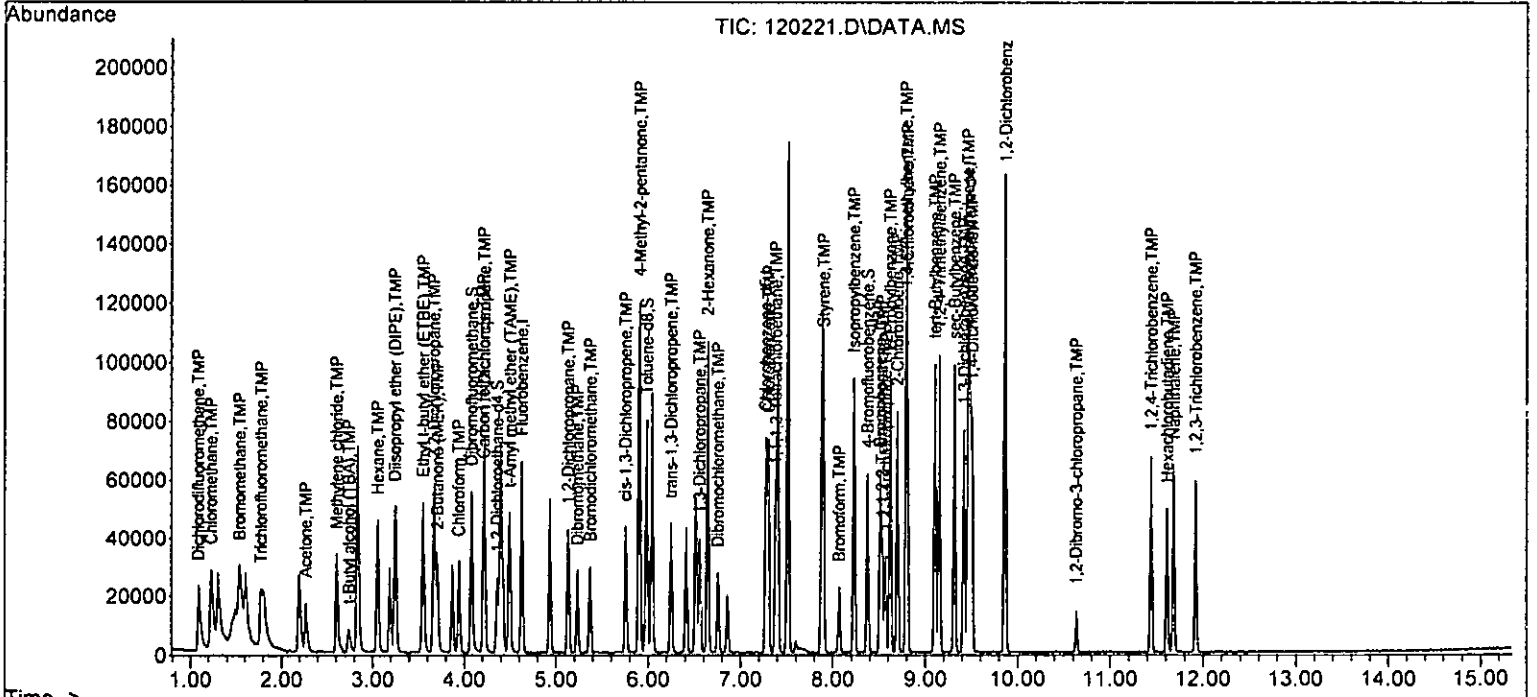
Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11958	50.737	ppb	94
38) cis-1,3-Dichloropropene	5.75	75	19087	9.897	ppb	94
40] Toluene	6.03	92	30787	10.088	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	17937	9.993	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	9694	9.891	ppb	98
43) 2-Hexanone	6.64	43	55790	50.642	ppb	99
44) 1,3-Dichloropropane	6.55	76	16957	9.901	ppb	98
45] Tetrachloroethene	6.51	164	11651	9.960	ppb	99
46) Dibromochloromethane	6.75	129	12853	9.928	ppb	88
47] 1,2-Dibromoethane (EDB)	6.85	107	11445	10.022	ppb	100
48) Chlorobenzene	7.30	112	32968	9.741	ppb	96
49] Ethylbenzene	7.40	91	59389	10.490	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	12033	9.501	ppb #	75
51] m,p-Xylene	7.51	106	43904	20.246	ppb	98
52] o-Xylene	7.89	106	21562	10.130	ppb	99
53) Styrene	7.90	104	35041	9.869	ppb	95
54) Isopropylbenzene	8.23	105	55761	9.818	ppb	97
55) Bromoform	8.07	173	9136	9.603	ppb	93
58) n-Propylbenzene	8.62	91	64216	9.921	ppb	91
59) Bromobenzene	8.51	156	14679	9.726	ppb	77
60) 1,3,5-Trimethylbenzene	8.79	105	46214	9.742	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	13758	9.812	ppb	78
62) 1,2,3-Trichloropropane	8.57	75	11175	9.764	ppb	89
63) 2-Chlorotoluene	8.70	91	37422	9.530	ppb	99
64) 4-Chlorotoluene	8.81	91	43818	9.733	ppb	93
65) tert-Butylbenzene	9.10	119	41042	9.787	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	47268	9.604	ppb	100
67) sec-Butylbenzene	9.31	105	59498	9.850	ppb	95
68) p-Isopropyltoluene	9.46	119	51671	9.988	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	26878	9.571	ppb	88
70) 1,4-Dichlorobenzene	9.50	146	27712	9.680	ppb	96
71) 1,2-Dichlorobenzene	9.86	146	26264	10.098	ppb	94
72) 1,2-Dibromo-3-chloropr...	10.63	75	2789	9.225	ppb	92
73) 1,2,4-Trichlorobenzene	11.44	180	17904	9.572	ppb	99
74) Hexachlorobutadiene	11.61	225	9780	9.923	ppb	94
75) Naphthalene	11.68	128	43136	9.397	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	16362	9.666	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq Dn : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.133	-1.3	100	0.00
4 TMP Dichlorodifluoromethane	20.000	19.723	1.4	100	0.00
5 TMP Chloromethane	20.000	19.290	3.6	100	0.00
6 TMP Vinyl chloride	20.000	19.864	0.7	100	0.00
7 TMP Bromomethane	20.000	19.453	2.7	100	0.00
8 TMP Chloroethane	20.000	20.035	-0.2	100	0.00
9 TMP Trichlorofluoromethane	20.000	19.124	4.4	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	100.000	92.609	7.4	100	0.00
12 TMP 1,1-Dichloroethene	20.000	19.649	1.8	100	0.00
13 TMP Hexane	20.000	19.637	1.8	100	0.00
14 TMP Methylene chloride	20.000	19.864	0.7	100	0.00
15 TMP t-Butyl alcohol (TBA)	100.000	92.949	7.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	20.000	20.384	-1.9	100	0.00
17 TMP trans-1,2-Dichloroethene	20.000	20.378	-1.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	20.000	18.603	7.0	100	0.00
19 TMP 1,1-Dichloroethane	20.000	20.002	-0.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	20.000	19.533	2.3	100	0.00
21 TMP 2,2-Dichloropropane	20.000	21.356	-6.8	100	0.00
22 TMP cis-1,2-Dichloroethene	20.000	19.907	0.5	100	0.00
23 TMP Chloroform	20.000	19.232	3.8	100	0.00
24 TMP 2-Butanone (MEK)	100.000	101.636	-1.6	100	0.00
25 TMP t-Amyl methyl ether (TAME)	20.000	19.270	3.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	20.000	19.892	0.5	100	0.00
27 TMP 1,1,1-Trichloroethane	20.000	19.496	2.5	100	0.00
28 TMP 1,1-Dichloropropene	20.000	19.422	2.9	100	0.00
29 TMP Carbon tetrachloride	20.000	19.060	4.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.112	-1.1	100	0.00
31 TMP Benzene	20.000	19.518	2.4	100	0.00
32 TMP Trichloroethene	20.000	20.002	-0.0	100	0.00
33 TMP 1,2-Dichloropropane	20.000	17.940	10.3	100	0.00
34 TMP Bromodichloromethane	20.000	18.740	6.3	100	0.00
35 S Toluene-d8	10.000	10.114	-1.1	100	0.00
36 TMP Dibromomethane	20.000	18.482	7.6	100	0.00
37 TMP 4-Methyl-2-pentanone	100.000	97.075	2.9	100	0.00
38 TMP cis-1,3-Dichloropropene	20.000	18.649	6.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	20.000	19.624	1.9	100	0.00
41 TMP trans-1,3-Dichloropropene	20.000	19.243	3.8	100	0.00
42 TMP 1,1,2-Trichloroethane	20.000	19.237	3.8	100	0.00
43 TMP 2-Hexanone	100.000	98.546	1.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	20.000	19.134	4.3	100	0.00
45 TMP Tetrachloroethene	20.000	19.413	2.9	100	0.00
46 TMP Dibromochloromethane	20.000	19.297	3.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	20.000	19.654	1.7	100	0.00
48 TMP Chlorobenzene	20.000	18.826	5.9	100	0.00
49 TMP Ethylbenzene	20.000	20.297	-1.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	20.000	18.994	5.0	100	0.00
51 TMP m,p-Xylene	40.000	39.009	2.5	100	0.00
52 TMP o-Xylene	20.000	19.602	2.0	100	0.00
53 TMP Styrene	20.000	19.080	4.6	100	0.00
54 TMP Isopropylbenzene	20.000	19.133	4.3	100	0.00
55 TMP Bromoform	20.000	18.984	5.1	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.928	0.7	100	0.00
58 TMP n-Propylbenzene	20.000	18.931	5.3	100	0.00
59 TMP Bromobenzene	20.000	18.698	6.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	20.000	18.733	6.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	20.000	19.466	2.7	100	0.00
62 TMP 1,2,3-Trichloropropane	20.000	18.609	7.0	100	0.00
63 TMP 2-Chlorotoluene	20.000	18.460	7.7	100	0.00
64 TMP 4-Chlorotoluene	20.000	18.756	6.2	100	0.00
65 TMP tert-Butylbenzene	20.000	18.989	5.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	20.000	18.736	6.3	100	0.00
67 TMP sec-Butylbenzene	20.000	19.097	4.5	100	0.00
68 TMP p-Isopropyltoluene	20.000	19.361	3.2	100	0.00
69 TMP 1,3-Dichlorobenzene	20.000	18.505	7.5	100	0.00
70 TMP 1,4-Dichlorobenzene	20.000	18.585	7.1	100	0.00
71 TMP 1,2-Dichlorobenzene	20.000	19.213	3.9	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	20.000	19.320	3.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	20.000	18.879	5.6	100	0.00
74 TMP Hexachlorobutadiene	20.000	19.965	0.2	100	0.00
75 TMP Naphthalene	20.000	18.689	6.6	100	0.00
76 TMP 1,2,3-Trichlorobenzene	20.000	19.114	4.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.267	-1.1	100	0.00
4 TMP	Dichlorodifluoromethane	0.712	0.702	1.4	100	0.00
5 TMP	Chloromethane	0.951	0.827	13.0	100	0.00
6 TMP	Vinyl chloride	0.862	0.742	13.9	100	0.00
7 TMP	Bromomethane	0.441	0.414	6.1	100	0.00
8 TMP	Chloroethane	0.341	0.332	2.6	100	0.00
9 TMP	Trichlorofluoromethane	0.899	0.860	4.3	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.031	0.029	6.5	100	0.00
12 TMP	1,1-Dichloroethene	0.271	0.243	10.3	100	0.00
13 TMP	Hexane	0.469	0.415	11.5	100	0.00
14 TMP	Methylene chloride	0.269	0.269	0.0	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.043	6.5	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.812	0.753	7.3	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.314	0.272	13.4	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.953	0.886	7.0	100	0.00
19 TMP	1,1-Dichloroethane	0.547	0.497	9.1	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.307	0.300	2.3	100	0.00
21 TMP	2,2-Dichloropropane	0.347	0.326	6.1	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.329	0.291	11.6	100	0.00
23 TMP	Chloroform	0.477	0.458	4.0	100	0.00
24 TMP	2-Butanone (MEK)	0.173	0.167	3.5	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.739	0.712	3.7	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.479	0.391	18.4	100	0.00
27 TMP	1,1,1-Trichloroethane	0.494	0.452	8.5	100	0.00
28 TMP	1,1-Dichloropropene	0.368	0.358	2.7	100	0.00
29 TMP	Carbon tetrachloride	0.396	0.377	4.8	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP	Benzene	1.103	0.988	10.4	100	0.00
32 TMP	Trichloroethene	0.368	0.318	13.6	100	0.00
33 TMP	1,2-Dichloropropane	0.315	0.282	10.5	100	0.00
34 TMP	Bromodichloromethane	0.375	0.352	6.1	100	0.00
35 S	Toluene-d8	0.975	0.987	-1.2	100	0.00
36 TMP	Dibromomethane	0.181	0.168	7.2	100	0.00
37 TMP	4-Methyl-2-pentanone	0.054	0.053	1.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.443	0.413	6.8	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.986	0.846	14.2	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.508	0.488	3.9	100	0.00
42 TMP	1,1,2-Trichloroethane	0.285	0.266	6.7	100	0.00
43 TMP	2-Hexanone	0.312	0.307	1.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.463	4.3	100	0.00
45 TMP Tetrachloroethene	0.420	0.320	23.8#	100	0.00
46 TMP Dibromochloromethane	0.366	0.353	3.6	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.317	16.4	100	0.00
48 TMP Chlorobenzene	0.957	0.901	5.9	100	0.00
49 TMP Ethylbenzene	1.885	1.622	14.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.340	5.0	100	0.00
51 TMP m,p-Xylene	0.705	0.597	15.3	100	0.00
52 TMP o-Xylene	0.683	0.589	13.8	100	0.00
53 TMP Styrene	1.004	0.958	4.6	100	0.00
54 TMP Isopropylbenzene	1.606	1.537	4.3	100	0.00
55 TMP Bromoform	0.269	0.255	5.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.858	0.7	100	0.00
58 TMP n-Propylbenzene	3.386	3.205	5.3	100	0.00
59 TMP Bromobenzene	0.790	0.738	6.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.324	6.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.714	2.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.557	7.0	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.896	7.7	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.209	6.2	100	0.00
65 TMP tert-Butylbenzene	2.194	2.083	5.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.412	6.3	100	0.00
67 TMP sec-Butylbenzene	3.160	3.017	4.5	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.620	3.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.359	7.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.392	7.1	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.307	4.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.153	3.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.924	5.5	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.515	0.2	100	0.00
75 TMP Naphthalene	2.401	2.244	6.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.846	4.4	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	43532	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	34868	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19084	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11625	10.133	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.30%	
30) 1,2-Dichloroethane-d4	4.36	102	2624	10.112	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	101.10%	
35) Toluene-d8	5.98	98	42947	10.114	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	101.10%	
57) 4-Bromofluorobenzene	8.38	95	16370	9.928	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	99.30%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	61092	19.723	ppb		96
5) Chloromethane	1.22	50	71971	19.290	ppb		98
6] Vinyl chloride	1.29	62	64585	19.864	ppb		92
7) Bromomethane	1.53	94	36028	19.453	ppb		69
8] Chloroethane	1.60	64	28912	20.035	ppb		84
9) Trichlorofluoromethane	1.77	101	74856	19.124	ppb		78
10) 2-Propanol	2.39	45	276	No Calib			
11) Acetone	2.26	58	12579	92.609	ppb	#	86
12] 1,1-Dichloroethene	2.19	96	21140	19.649	ppb		93
13) Hexane	3.05	57	36154	19.637	ppb		94
14) Methylene chloride	2.61	84	23449	19.864	ppb		86
15) t-Butyl alcohol (TBA)	2.73	59	18721	92.949	ppb		99
16] Methyl t-butyl ether (...)	2.84	73	65598	20.384	ppb		95
17] trans-1,2-Dichloroethene	2.83	96	23671	20.378	ppb		97
18) Diisopropyl ether (DIPE)	3.24	45	77143	18.603	ppb		100
19] 1,1-Dichloroethane	3.18	63	43299	20.002	ppb		99
20) Ethyl t-butyl ether (E...)	3.55	87	26132	19.533	ppb		94
21) 2,2-Dichloropropane	3.67	77	28355	21.356	ppb		89
22] cis-1,2-Dichloroethene	3.67	96	25297	19.907	ppb		99
23) Chloroform	3.94	83	39895	19.232	ppb		92
24) 2-Butanone (MEK)	3.70	43	72563	101.636	ppb		96
25) t-Amyl methyl ether (T...)	4.49	73	61962	19.270	ppb		97
26] 1,2-Dichloroethane (EDC)	4.41	62	34034	19.892	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	39310	19.496	ppb		99
28) 1,1-Dichloropropene	4.22	75	31132	19.422	ppb		93
29) Carbon tetrachloride	4.21	117	32861	19.060	ppb		98
31] Benzene	4.39	78	85989	19.518	ppb		99
32] Trichloroethene	4.93	95	27711	20.002	ppb		99
33) 1,2-Dichloropropane	5.13	63	24588	17.940	ppb		100
34) Bromodichloromethane	5.37	83	30612	18.740	ppb		98
36) Dibromomethane	5.23	93	14589	18.482	ppb	#	74



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

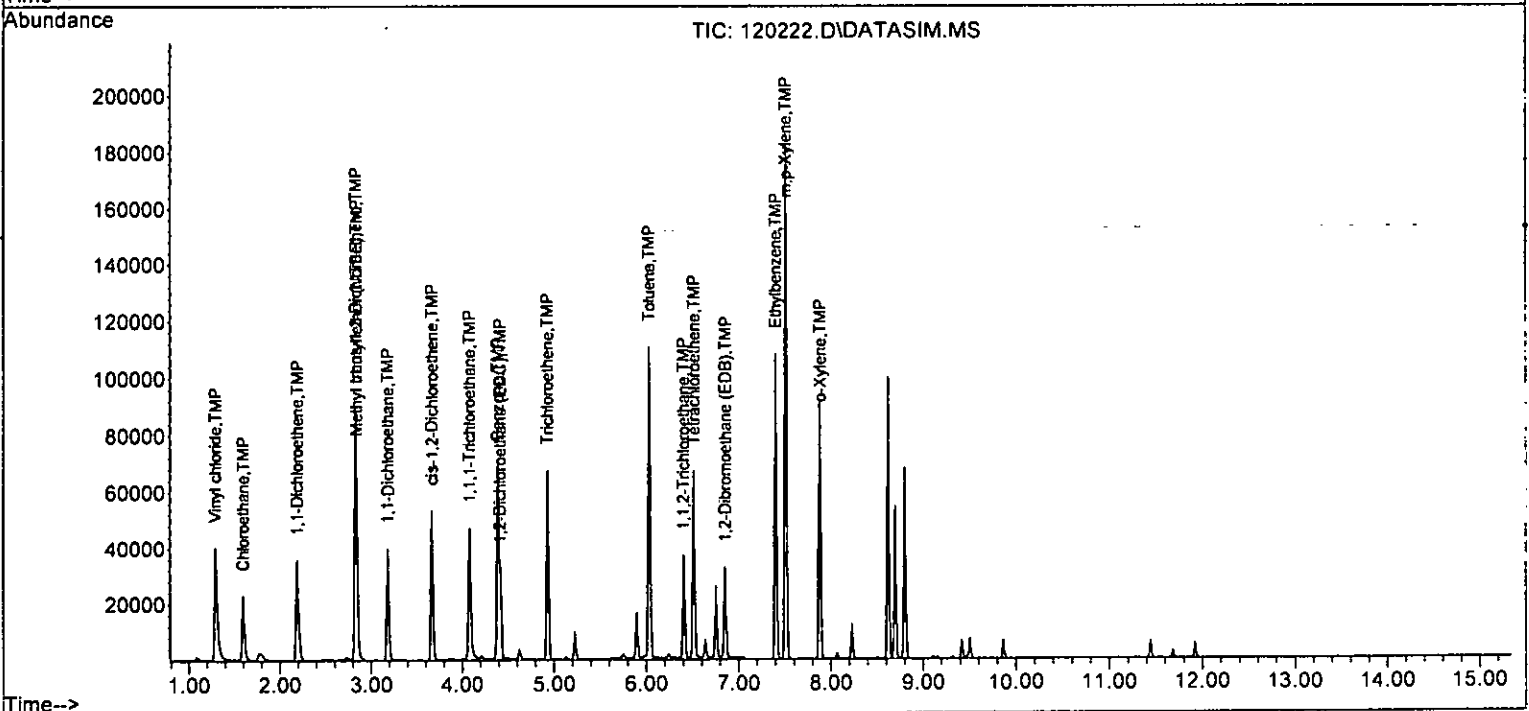
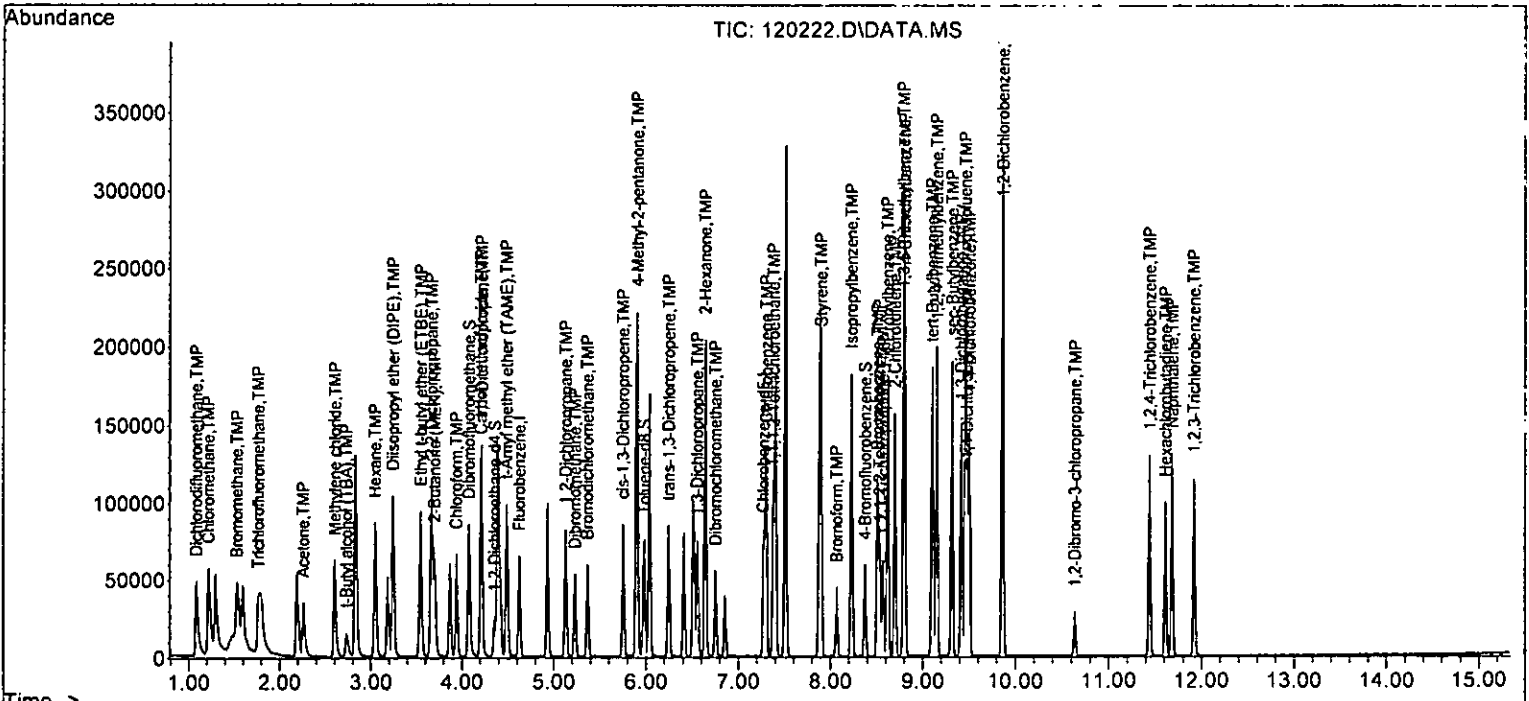
Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Oval Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	22882	97.075	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	35969	18.649	ppb	95
40] Toluene	6.03	92	58980	19.624	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	34060	19.243	ppb	94
42] 1,1,2-Trichloroethane	6.40	83	18541	19.237	ppb	99
43) 2-Hexanone	6.64	43	107056	98.546	ppb	98
44) 1,3-Dichloropropane	6.55	76	32316	19.134	ppb	94
45] Tetrachloroethene	6.51	164	22309	19.413	ppb	99
46) Dibromochloromethane	6.75	129	24637	19.297	ppb	100
47] 1,2-Dibromoethane (ED8)	6.85	107	22097	19.654	ppb	99
48) Chlorobenzene	7.30	112	62831	18.826	ppb	98
49] Ethylbenzene	7.40	91	113136	20.297	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	23722	18.994	ppb #	79
51] m,p-Xylene	7.51	106	83303	39.009	ppb	99
52] o-Xylene	7.88	106	41094	19.602	ppb	98
53) Styrene	7.90	104	66806	19.080	ppb	92
54) Isopropylbenzene	8.23	105	107154	19.133	ppb	92
55) Bromoform	8.07	173	17810	18.984	ppb	93
58) n-Propylbenzene	8.62	91	122331	18.931	ppb	94
59) Bromobenzene	8.51	156	28172	18.698	ppb	86
60) 1,3,5-Trimethylbenzene	8.79	105	88719	18.733	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.53	83	27248	19.466	ppb	78
62) 1,2,3-Trichloropropane	8.57	75	21263	18.609	ppb	90
63) 2-Chlorotoluene	8.70	91	72370	18.460	ppb	99
64) 4-Chlorotoluene	8.81	91	84296	18.756	ppb	98
65) tert-Butylbenzene	9.10	119	79497	18.989	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	92061	18.736	ppb	100
67) sec-Butylbenzene	9.32	105	115158	19.097	ppb	96
68) p-Isopropyltoluene	9.46	119	99996	19.361	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	51877	18.505	ppb	95
70) 1,4-Dichlorobenzene	9.50	146	53117	18.585	ppb	96
71) 1,2-Dichlorobenzene	9.86	146	49890	19.213	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.64	75	5831	19.320	ppb	94
73) 1,2,4-Trichlorobenzene	11.44	180	35252	18.879	ppb	95
74) Hexachlorobutadiene	11.61	225	19644	19.965	ppb	89
75) Naphthalene	11.68	128	85647	18.689	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	32300	19.114	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-0.02
3 S Dibromofluoromethane	10.000	9.881	1.2	100	0.00
4 TMP Dichlorodifluoromethane	50.000	51.003	-2.0	100	0.00
5 TMP Chloromethane	50.000	50.099	-0.2	100	0.00
6 TMP Vinyl chloride	50.000	50.837	-1.7	100	0.00
7 TMP Bromomethane	50.000	51.025	-2.0	100	0.00
8 TMP Chloroethane	50.000	53.741	-7.5	100	-0.02
9 TMP Trichlorofluoromethane	50.000	49.215	1.6	100	-0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	250.000	231.545	7.4	100	-0.02
12 TMP 1,1-Dichloroethene	50.000	51.092	-2.2	100	0.00
13 TMP Hexane	50.000	50.423	-0.8	100	0.00
14 TMP Methylene chloride	50.000	50.301	-0.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	250.000	245.809	1.7	100	-0.02
16 TMP Methyl t-butyl ether (MTBE)	50.000	51.055	-2.1	100	0.00
17 TMP trans-1,2-Dichloroethene	50.000	50.934	-1.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	50.000	47.300	5.4	100	0.00
19 TMP 1,1-Dichloroethane	50.000	51.069	-2.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	50.000	49.440	1.1	100	0.00
21 TMP 2,2-Dichloropropane	50.000	53.753	-7.5	100	0.00
22 TMP cis-1,2-Dichloroethene	50.000	50.551	-1.1	100	0.00
23 TMP Chloroform	50.000	48.941	2.1	100	0.00
24 TMP 2-Butanone (MEK)	250.000	240.961	3.6	100	0.00
25 TMP t-Amyl methyl ether (TAME)	50.000	48.304	3.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	50.000	50.680	-1.4	100	0.00
27 TMP 1,1,1-Trichloroethane	50.000	49.880	0.2	100	0.00
28 TMP 1,1-Dichloropropene	50.000	49.985	0.0	100	0.00
29 TMP Carbon tetrachloride	50.000	49.903	0.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.541	-5.4	100	0.00
31 TMP Benzene	50.000	49.692	0.6	100	0.00
32 TMP Trichloroethene	50.000	48.829	2.3	100	0.00
33 TMP 1,2-Dichloropropane	50.000	46.613	6.8	100	0.00
34 TMP Bromodichloromethane	50.000	48.415	3.2	100	0.00
35 S Toluene-d8	10.000	10.156	-1.6	100	0.00
36 TMP Dibromomethane	50.000	48.548	2.9	100	0.00
37 TMP 4-Methyl-2-pentanone	250.000	244.069	2.4	100	-0.01
38 TMP cis-1,3-Dichloropropene	50.000	49.025	2.0	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	50.000	49.751	0.5	100	0.00
41 TMP trans-1,3-Dichloropropene	50.000	50.284	-0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	50.000	49.606	0.8	100	0.00
43 TMP 2-Hexanone	250.000	244.630	2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	50.000	48.945	2.1	100	0.00
45 TMP Tetrachloroethene	50.000	49.735	0.5	100	0.00
46 TMP Dibromochloromethane	50.000	50.563	-1.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	50.000	50.558	-1.1	100	0.00
48 TMP Chlorobenzene	50.000	48.540	2.9	100	0.00
49 TMP Ethylbenzene	50.000	51.005	-2.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	50.000	49.093	1.8	100	0.00
51 TMP m,p-Xylene	100.000	97.907	2.1	100	0.00
52 TMP o-Xylene	50.000	49.094	1.8	100	0.00
53 TMP Styrene	50.000	48.659	2.7	100	0.00
54 TMP Isopropylbenzene	50.000	47.951	4.1	100	0.00
55 TMP Bromoform	50.000	48.399	3.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	10.000	9.748	2.5	100	0.00
58 TMP n-Propylbenzene	50.000	49.444	1.1	100	0.00
59 TMP Bromobenzene	50.000	49.118	1.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	50.000	48.005	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	50.000	53.244	-6.5	100	0.00
62 TMP 1,2,3-Trichloropropane	50.000	49.462	1.1	100	0.00
63 TMP 2-Chlorotoluene	50.000	47.317	5.4	100	0.00
64 TMP 4-Chlorotoluene	50.000	47.663	4.7	100	0.00
65 TMP tert-Butylbenzene	50.000	49.178	1.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	50.000	47.900	4.2	100	0.00
67 TMP sec-Butylbenzene	50.000	49.606	0.8	100	0.00
68 TMP p-Isopropyltoluene	50.000	50.215	-0.4	100	0.00
69 TMP 1,3-Dichlorobenzene	50.000	48.520	3.0	100	0.00
70 TMP 1,4-Dichlorobenzene	50.000	47.890	4.2	100	0.00
71 TMP 1,2-Dichlorobenzene	50.000	50.425	-0.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	50.000	48.924	2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	50.000	50.111	-0.2	100	0.00
74 TMP Hexachlorobutadiene	50.000	52.119	-4.2	100	0.00
75 TMP Naphthalene	50.000	48.976	2.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	50.000	50.801	-1.6	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-0.02
3 S	Dibromofluoromethane	0.264	0.260	1.5	100	0.00
4 TMP	Dichlorodifluoromethane	0.712	0.726	-2.0	100	0.00
5 TMP	Chloromethane	0.951	0.852	10.4	100	0.00
6 TMP	Vinyl chloride	0.862	0.759	11.9	100	0.00
7 TMP	Bromomethane	0.441	0.402	8.8	100	0.00
8 TMP	Chloroethane	0.341	0.355	-4.1	100	-0.02
9 TMP	Trichlorofluoromethane	0.899	0.885	1.6	100	-0.02
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.031	0.029	6.5	100	-0.02
12 TMP	1,1-Dichloroethene	0.271	0.252	7.0	100	0.00
13 TMP	Hexane	0.469	0.422	10.0	100	0.00
14 TMP	Methylene chloride	0.269	0.265	1.5	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	-0.02
16 TMP	Methyl t-butyl ether (MTBE)	0.812	0.754	7.1	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.314	0.272	13.4	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.953	0.901	5.5	100	0.00
19 TMP	1,1-Dichloroethane	0.547	0.508	7.1	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.307	0.304	1.0	100	0.00
21 TMP	2,2-Dichloropropane	0.347	0.326	6.1	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.329	0.295	10.3	100	0.00
23 TMP	Chloroform	0.477	0.466	2.3	100	0.00
24 TMP	2-Butanone (MEK)	0.173	0.157	9.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.739	0.714	3.4	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.479	0.398	16.9	100	0.00
27 TMP	1,1,1-Trichloroethane	0.494	0.462	6.5	100	0.00
28 TMP	1,1-Dichloropropene	0.368	0.368	0.0	100	0.00
29 TMP	Carbon tetrachloride	0.396	0.395	0.3	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.063	-5.0	100	0.00
31 TMP	Benzene	1.103	1.000	9.3	100	0.00
32 TMP	Trichloroethene	0.368	0.311	15.5	100	0.00
33 TMP	1,2-Dichloropropane	0.315	0.294	6.7	100	0.00
34 TMP	Bromodichloromethane	0.375	0.363	3.2	100	0.00
35 S	Toluene-d8	0.975	0.991	-1.6	100	0.00
36 TMP	Dibromomethane	0.181	0.176	2.8	100	0.00
37 TMP	4-Methyl-2-pentanone	0.054	0.053	1.9	100	-0.01
38 TMP	cis-1,3-Dichloropropene	0.443	0.434	2.0	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.986	0.857	13.1	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.508	0.511	-0.6	100	0.00
42 TMP	1,1,2-Trichloroethane	0.285	0.273	4.2	100	0.00
43 TMP	2-Hexanone	0.312	0.305	2.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.474	2.1	100	0.00
45 TMP Tetrachloroethene	0.420	0.326	22.4#	100	0.00
46 TMP Dibromochloromethane	0.366	0.370	-1.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.326	14.0	100	0.00
48 TMP Chlorobenzene	0.957	0.929	2.9	100	0.00
49 TMP Ethylbenzene	1.885	1.629	13.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.352	1.7	100	0.00
51 TMP m,p-Xylene	0.705	0.599	15.0	100	0.00
52 TMP o-Xylene	0.683	0.590	13.6	100	0.00
53 TMP Styrene	1.004	0.977	2.7	100	0.00
54 TMP Isopropylbenzene	1.606	1.540	4.1	100	0.00
55 TMP Bromoform	0.269	0.260	3.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.842	2.5	100	0.00
58 TMP n-Propylbenzene	3.386	3.348	1.1	100	0.00
59 TMP Bromobenzene	0.790	0.776	1.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.383	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.781	-6.5	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.592	1.2	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.944	5.4	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.245	4.7	100	0.00
65 TMP tert-Butylbenzene	2.194	2.158	1.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.467	4.2	100	0.00
67 TMP sec-Butylbenzene	3.160	3.135	0.8	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.718	-0.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.426	2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.434	4.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.372	-0.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.155	1.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.981	-0.3	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.537	-4.1	100	0.00
75 TMP Naphthalene	2.401	2.352	2.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.900	-1.7	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	42665	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	34502	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	18362	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	11110	9.881	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.80%
30) 1,2-Dichloroethane-d4	4.35	102	2681	10.541	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	105.40%
35) Toluene-d8	5.98	98	42264	10.156	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	101.60%
57) 4-Bromofluorobenzene	8.38	95	15466	9.748	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	97.50%
Target Compounds						
2) Ethanol	1.85	45	63	No Calib		Qvalue
4) Dichlorodifluoromethane	1.08	85	154838	51.003	ppb	100
5) Chloromethane	1.22	50	181760	50.099	ppb	100
6] Vinyl chloride	1.29	62	161848	50.837	ppb	95
7) Bromomethane	1.53	94	85862	51.025	ppb	66
8] Chloroethane	1.59	64	75807	53.741	ppb	82
9) Trichlorofluoromethane	1.76	101	188805	49.215	ppb	71
10) 2-Propanol	2.40	45	494	No Calib		
11) Acetone	2.25	58	30824	231.545	ppb	87
12] 1,1-Dichloroethene	2.18	96	53843	51.092	ppb	89
13) Hexane	3.05	57	90084	50.423	ppb	93
14) Methylene chloride	2.60	84	56562	50.301	ppb	85
15) t-Butyl alcohol (TBA)	2.72	59	48523	245.809	ppb	97
16] Methyl t-butyl ether (...)	2.83	73	160937	51.055	ppb	97
17] trans-1,2-Dichloroethene	2.82	96	57927	50.934	ppb	91
18) Diisopropyl ether (DIPE)	3.24	45	192240	47.300	ppb	98
19] 1,1-Dichloroethane	3.17	63	108283	51.069	ppb	96
20) Ethyl t-butyl ether (E...)	3.54	87	64824	49.440	ppb	95
21) 2,2-Dichloropropane	3.66	77	69591	53.753	ppb	94
22] cis-1,2-Dichloroethene	3.66	96	62912	50.551	ppb	90
23) Chloroform	3.94	83	99500	48.941	ppb	91
24) 2-Butanone (MEK)	3.70	43	167074	240.961	ppb	98
25) t-Amyl methyl ether (T...)	4.49	73	152224	48.304	ppb	98
26] 1,2-Dichloroethane (EDC)	4.41	62	84876	50.680	ppb	99
27] 1,1,1-Trichloroethane	4.08	97	98529	49.880	ppb	97
28) 1,1-Dichloropropene	4.21	75	78525	49.985	ppb	92
29) Carbon tetrachloride	4.21	117	84324	49.903	ppb	96
31] Benzene	4.39	78	213267	49.692	ppb	98
32] Trichloroethene	4.93	95	66242	48.829	ppb	95
33) 1,2-Dichloropropane	5.13	63	62615	46.613	ppb	100
34) Bromodichloromethane	5.37	83	77513	48.415	ppb	96
36) Dibromomethane	5.22	93	37560	48.548	ppb	86

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

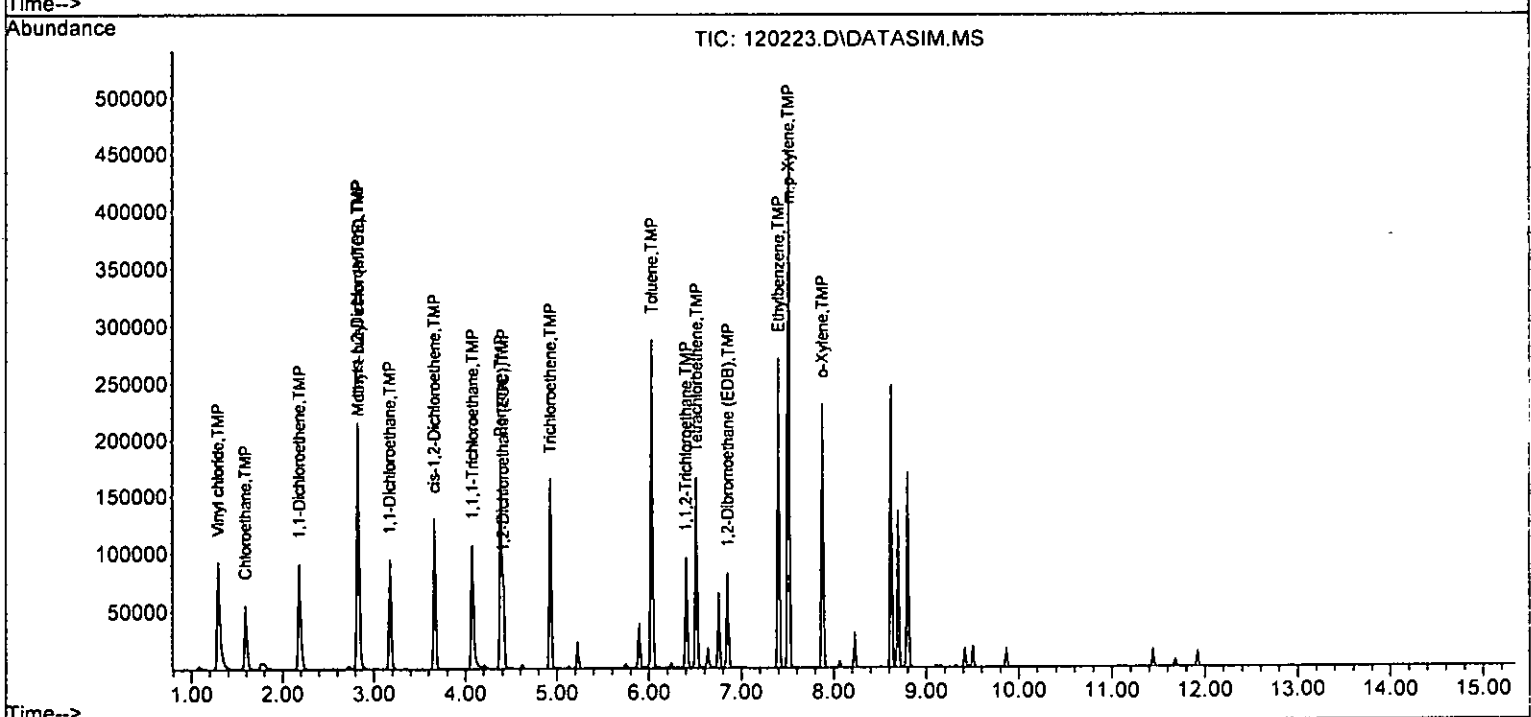
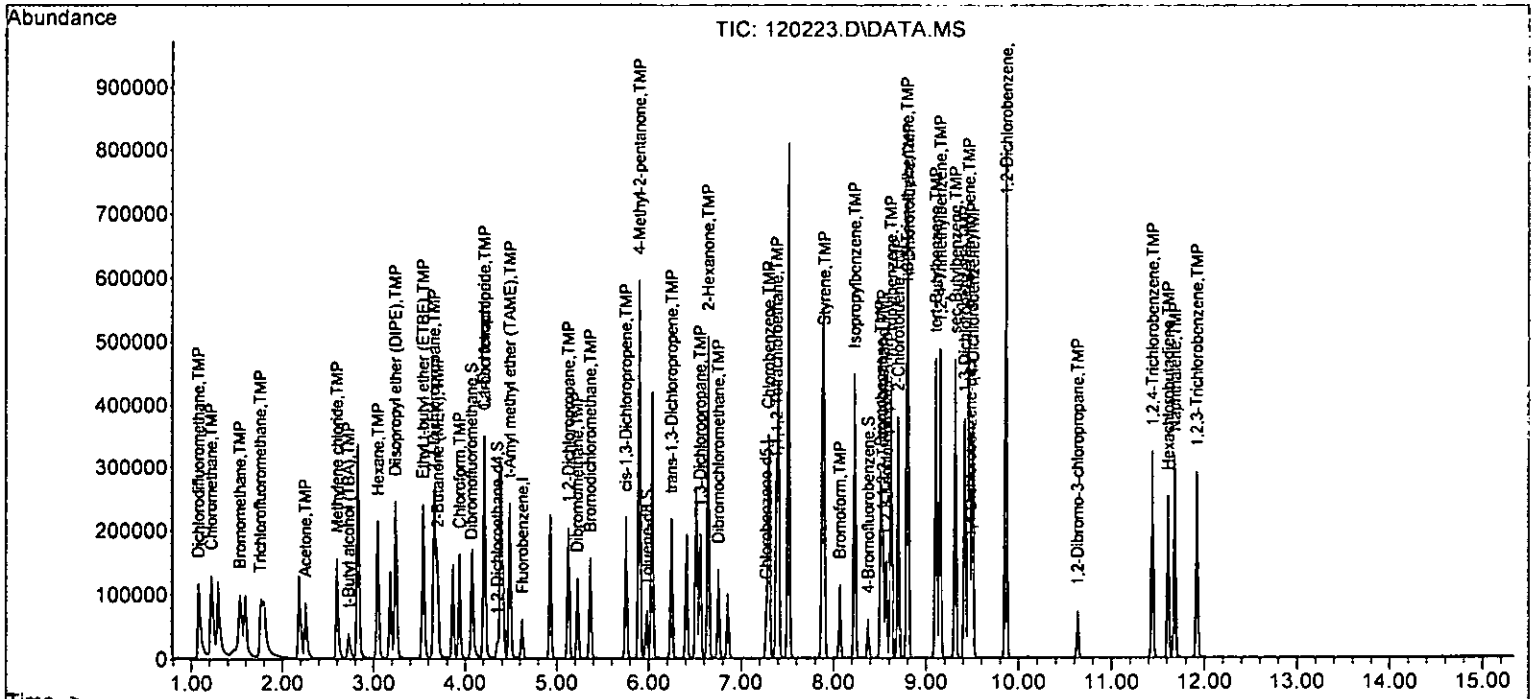
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.90	85	56385	244.069	ppb	94
38) cis-1,3-Dichloropropene	5.75	75	92673	49.025	ppb	95
40] Toluene	6.03	92	147836	49.751	ppb	98
41) trans-1,3-Dichloropropene	6.25	75	88068	50.284	ppb	91
42] 1,1,2-Trichloroethane	6.40	83	47013	49.606	ppb	97
43) 2-Hexanone	6.64	43	262965	244.630	ppb	98
44) 1,3-Dichloropropane	6.55	76	81797	48.945	ppb	98
45] Tetrachloroethene	6.51	164	56240	49.735	ppb	99
46) Dibromochloromethane	6.75	129	63876	50.563	ppb	94
47] 1,2-Dibromoethane (EDB)	6.85	107	56187	50.558	ppb	99
48) Chlorobenzene	7.29	112	160305	48.540	ppb	99
49] Ethylbenzene	7.40	91	281033	51.005	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.38	131	60668	49.093	ppb #	78
51] m,p-Xylene	7.51	106	206698	97.907	ppb	99
52] o-Xylene	7.88	106	101758	49.094	ppb #	65
53) Styrene	7.90	104	168583	48.659	ppb	94
54) Isopropylbenzene	8.23	105	265731	47.951	ppb	97
55) Bromoform	8.07	173	44930	48.399	ppb	95
58) n-Propylbenzene	8.62	91	307417	49.444	ppb	91
59) Bromobenzene	8.51	156	71207	49.118	ppb	83
60) 1,3,5-Trimethylbenzene	8.79	105	218746	48.005	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.53	83	71708	53.244	ppb	80
62) 1,2,3-Trichloropropane	8.57	75	54378	49.462	ppb	90
63) 2-Chlorotoluene	8.70	91	178478	47.317	ppb	99
64) 4-Chlorotoluene	8.81	91	206104	47.663	ppb	96
65) tert-Butylbenzene	9.10	119	198092	49.178	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	226454	47.900	ppb	98
67) sec-Butylbenzene	9.31	105	287819	49.606	ppb	97
68) p-Isopropyltoluene	9.46	119	249537	50.215	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	130878	48.520	ppb	89
70) 1,4-Dichlorobenzene	9.50	146	131694	47.890	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	125983	50.425	ppb	91
72) 1,2-Dibromo-3-chloropr...	10.63	75	14207	48.924	ppb	97
73) 1,2,4-Trichlorobenzene	11.44	180	90030	50.111	ppb	98
74) Hexachlorobutadiene	11.61	225	49341	52.119	ppb	96
75) Naphthalene	11.68	128	215957	48.976	ppb	100
76) 1,2,3-Trichlorobenzene	11.92	180	82598	50.801	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

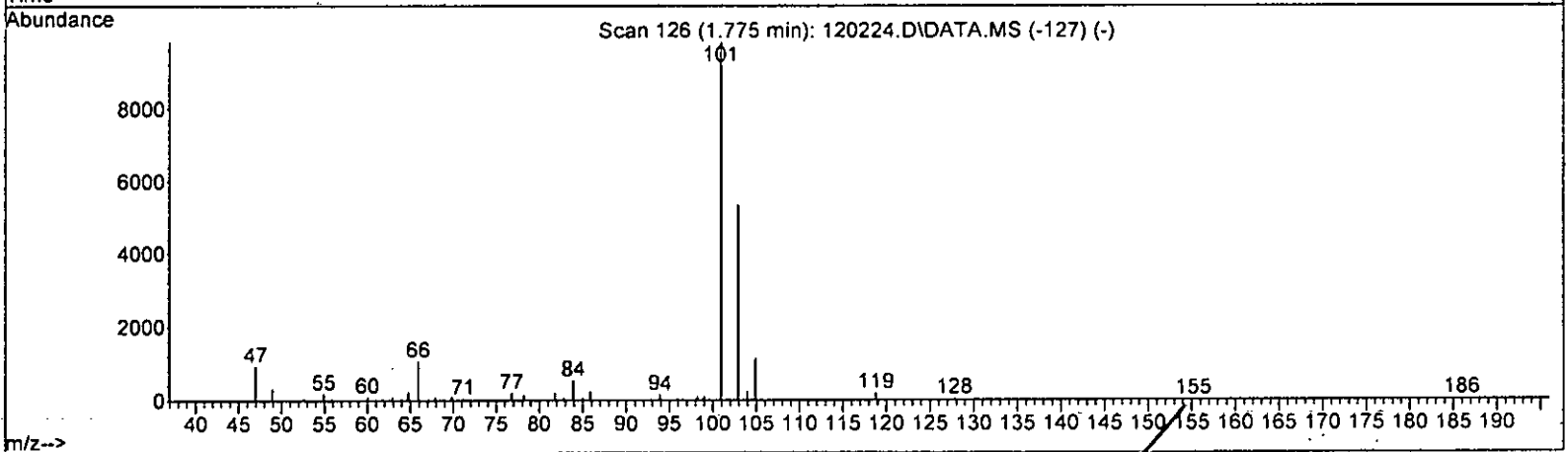
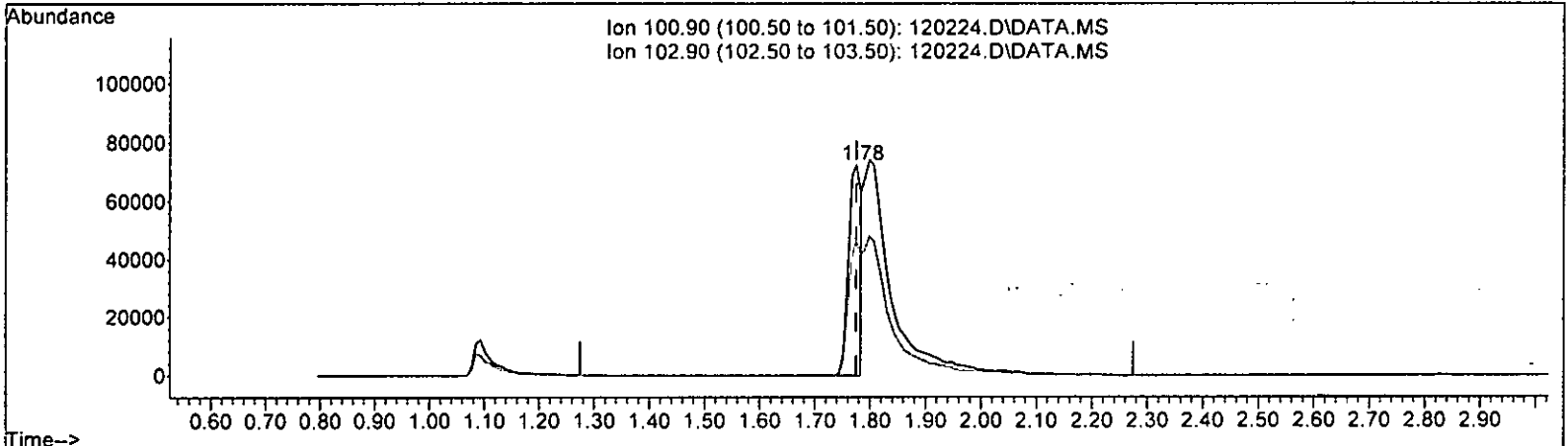
Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120224.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.775min (+ 0.000) 31.106 ppb

response 114704

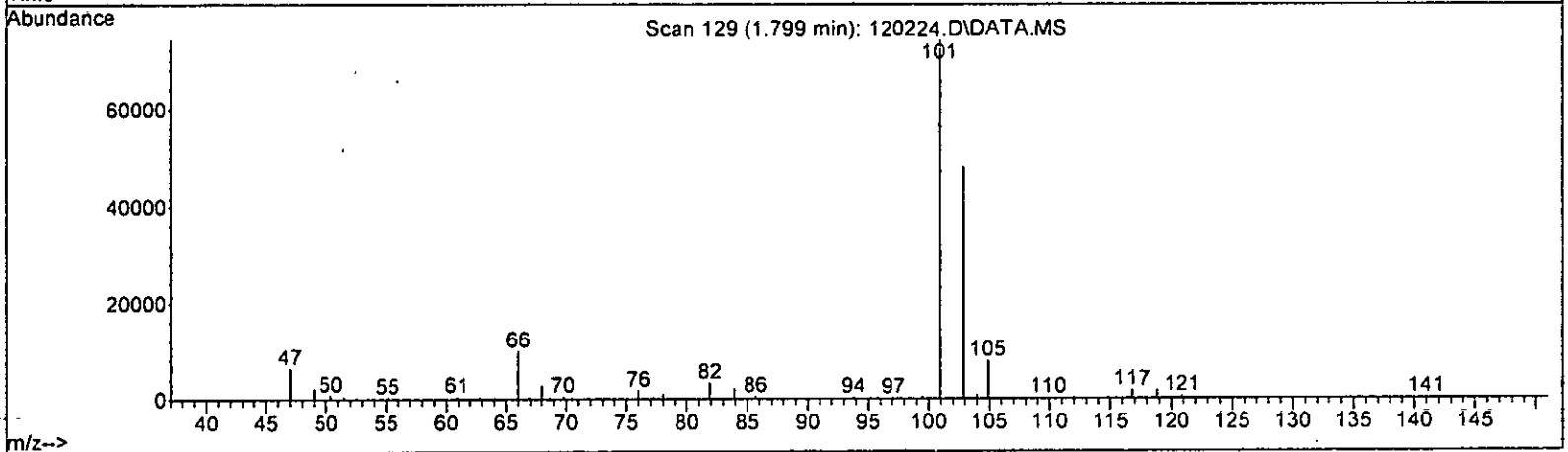
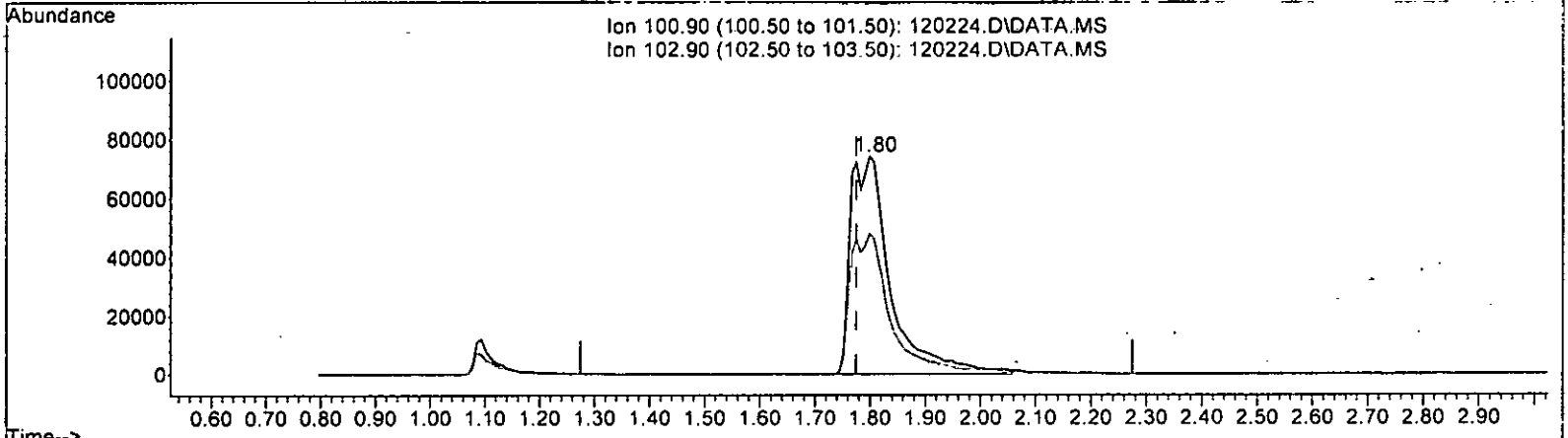
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.58
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120224.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.799min (+ 0.024) 100.346 ppb m

response 370024

Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.94
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.368	-3.7	100	0.00
4 TMP Dichlorodifluoromethane	100.000	104.751	-4.8	100	0.00
5 TMP Chloromethane	100.000	102.638	-2.6	100	0.00
6 TMP Vinyl chloride	100.000	103.206	-3.2	100	0.00
7 TMP Bromomethane	100.000	106.405	-6.4	100	0.00
8 TMP Chloroethane	100.000	109.608	-9.6	100	0.00
9 TMP Trichlorofluoromethane	100.000	100.346	-0.3	95	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	500.000	501.847	-0.4	100	0.00
12 TMP 1,1-Dichloroethene	100.000	103.069	-3.1	100	0.00
13 TMP Hexane	100.000	102.886	-2.9	100	0.00
14 TMP Methylene chloride	100.000	101.190	-1.2	100	0.00
15 TMP t-Butyl alcohol (TBA)	500.000	483.241	3.4	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	100.000	102.758	-2.8	100	0.00
17 TMP trans-1,2-Dichloroethene	100.000	102.530	-2.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	100.000	95.426	4.6	100	0.00
19 TMP 1,1-Dichloroethane	100.000	103.089	-3.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	100.000	103.243	-3.2	100	0.00
21 TMP 2,2-Dichloropropane	100.000	99.782	0.2	100	0.00
22 TMP cis-1,2-Dichloroethene	100.000	101.961	-2.0	100	0.00
23 TMP Chloroform	100.000	98.367	1.6	100	0.00
24 TMP 2-Butanone (MEK)	500.000	515.470	-3.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	100.000	96.892	3.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	100.000	102.330	-2.3	100	0.00
27 TMP 1,1,1-Trichloroethane	100.000	102.115	-2.1	100	0.00
28 TMP 1,1-Dichloropropene	100.000	99.832	0.2	100	0.00
29 TMP Carbon tetrachloride	100.000	101.146	-1.1	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.482	5.2	100	0.00
31 TMP Benzene	100.000	101.544	-1.5	100	0.00
32 TMP Trichloroethene	100.000	103.300	-3.3	100	0.00
33 TMP 1,2-Dichloropropane	100.000	94.860	5.1	100	0.00
34 TMP Bromodichloromethane	100.000	99.757	0.2	100	0.00
35 S Toluene-d8	10.000	10.383	-3.8	100	0.00
36 TMP Dibromomethane	100.000	98.148	1.9	100	0.00
37 TMP 4-Methyl-2-pentanone	500.000	500.578	-0.1	100	0.00
38 TMP cis-1,3-Dichloropropene	100.000	100.781	-0.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	100.000	100.906	-0.9	100	0.00
41 TMP trans-1,3-Dichloropropene	100.000	99.427	0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	100.000	101.808	-1.8	100	0.00
43 TMP 2-Hexanone	500.000	481.832	3.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	100.000	99.822	0.2	100	0.00
45 TMP Tetrachloroethene	100.000	101.524	-1.5	100	0.00
46 TMP Dibromochloromethane	100.000	104.869	-4.9	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	100.000	101.797	-1.8	100	0.00
48 TMP Chlorobenzene	100.000	98.243	1.8	100	0.00
49 TMP Ethylbenzene	100.000	102.729	-2.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	100.000	99.834	0.2	100	0.00
51 TMP m,p-Xylene	200.000	197.727	1.1	100	0.00
52 TMP o-Xylene	100.000	99.565	0.4	100	0.00
53 TMP Styrene	100.000	97.518	2.5	100	0.00
54 TMP Isopropylbenzene	100.000	97.020	3.0	100	0.00
55 TMP Bromoform	100.000	100.841	-0.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.245	-2.4	100	0.00
58 TMP n-Propylbenzene	100.000	97.423	2.6	100	0.00
59 TMP Bromobenzene	100.000	97.640	2.4	100	0.00
60 TMP 1,3,5-Trimethylbenzene	100.000	96.173	3.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	100.000	98.821	1.2	100	0.00
62 TMP 1,2,3-Trichloropropane	100.000	99.167	0.8	100	0.00
63 TMP 2-Chlorotoluene	100.000	92.739	7.3	100	0.00
64 TMP 4-Chlorotoluene	100.000	95.976	4.0	100	0.00
65 TMP tert-Butylbenzene	100.000	98.528	1.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	100.000	96.194	3.8	100	0.00
67 TMP sec-Butylbenzene	100.000	98.955	1.0	100	0.00
68 TMP p-Isopropyltoluene	100.000	101.863	-1.9	100	0.00
69 TMP 1,3-Dichlorobenzene	100.000	96.196	3.8	100	0.00
70 TMP 1,4-Dichlorobenzene	100.000	95.835	4.2	100	0.00
71 TMP 1,2-Dichlorobenzene	100.000	100.357	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	100.000	102.067	-2.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	100.000	103.665	-3.7	100	0.00
74 TMP Hexachlorobutadiene	100.000	103.045	-3.0	100	0.00
75 TMP Naphthalene	100.000	101.613	-1.6	100	0.00
76 TMP 1,2,3-Trichlorobenzene	100.000	103.391	-3.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.273	-3.4	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.745	-4.6	100	0.00
5 TMP Chloromethane	0.951	0.871	8.4	100	0.00
6 TMP Vinyl chloride	0.862	0.770	10.7	100	0.00
7 TMP Bromomethane	0.441	0.409	7.3	100	0.00
8 TMP Chloroethane	0.341	0.362	-6.2	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.902	-0.3	95	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.031	0.0	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.255	5.9	100	0.00
13 TMP Hexane	0.469	0.429	8.5	100	0.00
14 TMP Methylene chloride	0.269	0.262	2.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.759	6.5	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.273	13.1	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.909	4.6	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.512	6.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.317	-3.3	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.302	13.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.297	9.7	100	0.00
23 TMP Chloroform	0.477	0.469	1.7	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.167	3.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.716	3.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.402	16.1	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.473	4.3	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.368	0.0	100	0.00
29 TMP Carbon tetrachloride	0.396	0.401	-1.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.057	5.0	100	0.00
31 TMP Benzene	1.103	1.012	8.3	100	0.00
32 TMP Trichloroethene	0.368	0.328	10.9	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.299	5.1	100	0.00
34 TMP Bromodichloromethane	0.375	0.374	0.3	100	0.00
35 S Toluene-d8	0.975	1.013	-3.9	100	0.00
36 TMP Dibromomethane	0.181	0.178	1.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.054	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.447	-0.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.869	11.9	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.505	0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.277	2.8	100	0.00
43 TMP 2-Hexanone	0.312	0.300	3.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-45  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.484	0.0	100	0.00
45 TMP Tetrachloroethene	0.420	0.330	21.4#	100	0.00
46 TMP Dibromochloromethane	0.366	0.384	-4.9	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.328	13.5	100	0.00
48 TMP Chlorobenzene	0.957	0.940	1.8	100	0.00
49 TMP Ethylbenzene	1.885	1.640	13.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.358	0.0	100	0.00
51 TMP m,p-Xylene	0.705	0.605	14.2	100	0.00
52 TMP o-Xylene	0.683	0.598	12.4	100	0.00
53 TMP Styrene	1.004	0.979	2.5	100	0.00
54 TMP Isopropylbenzene	1.606	1.558	3.0	100	0.00
55 TMP Bromoform	0.269	0.271	-0.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.885	-2.4	100	0.00
58 TMP n-Propylbenzene	3.386	3.299	2.6	100	0.00
59 TMP Bromobenzene	0.790	0.771	2.4	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.387	3.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.725	1.1	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.594	0.8	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.905	7.3	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.260	4.0	100	0.00
65 TMP tert-Butylbenzene	2.194	2.161	1.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.477	3.8	100	0.00
67 TMP sec-Butylbenzene	3.160	3.127	1.0	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.757	-1.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.413	3.8	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.435	4.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.366	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.161	-1.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	1.014	-3.7	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.531	-2.9	100	0.00
75 TMP Naphthalene	2.401	2.440	-1.6	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.915	-3.4	100	0.00

(#) = Out of Range

5PCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	41010	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	33336	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	17982	10.000	ppb	# 0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11206	10.368	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.70%	
30) 1,2-Dichloroethane-d4	4.36	102	2318	9.482	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	94.80%	
35) Toluene-d8	5.98	98	41534	10.383	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	103.80%	
57) 4-Bromofluorobenzene	8.38	95	15918	10.245	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	102.50%	
Target Compounds						
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.09	85	305673	104.751	ppb	96
5) Chloromethane	1.23	50	357020	102.638	ppb	99
6] Vinyl chloride	1.30	62	315732	103.206	ppb	93
7) Bromomethane	1.55	94	167764	106.405	ppb	65
8] Chloroethane	1.61	64	148497	109.608	ppb	83
9) Trichlorofluoromethane	1.80	101	370024m	100.346	ppb	
10) 2-Propanol	2.40	45	490	No Calib		
11) Acetone	2.26	58	64216	501.847	ppb	# 86
12] 1,1-Dichloroethene	2.19	96	104387	103.069	ppb	83
13) Hexane	3.06	57	176108	102.886	ppb	95
14) Methylene chloride	2.61	84	107409	101.190	ppb	83
15) t-Butyl alcohol (TBA)	2.73	59	91692	483.241	ppb	95
16] Methyl t-butyl ether (...)	2.84	73	311294	102.758	ppb	96
17] trans-1,2-Dichloroethene	2.83	96	112046	102.530	ppb	91
18) Diisopropyl ether (DIPE)	3.24	45	372796	95.426	ppb	99
19] 1,1-Dichloroethane	3.18	63	210066	103.089	ppb	97
20) Ethyl t-butyl ether (E...)	3.55	87	130118	103.243	ppb	88
21) 2,2-Dichloropropane	3.67	77	123978	99.782	ppb	90
22] cis-1,2-Dichloroethene	3.67	96	121941	101.961	ppb	95
23) Chloroform	3.95	83	192230	98.367	ppb	91
24) 2-Butanone (MEK)	3.70	43	342320	515.470	ppb	98
25) t-Amyl methyl ether (T...)	4.49	73	293501	96.892	ppb	97
26] 1,2-Dichloroethane (EDC)	4.42	62	164660	102.330	ppb	96
27] 1,1,1-Trichloroethane	4.08	97	193860	102.115	ppb	97
28) 1,1-Dichloropropene	4.22	75	150749	99.832	ppb	92
29) Carbon tetrachloride	4.22	117	164281	101.146	ppb	95
31] Benzene	4.39	78	414855	101.544	ppb	93
32] Trichloroethene	4.93	95	134660	103.300	ppb	95
33) 1,2-Dichloropropane	5.13	63	122481	94.860	ppb	100
34) Bromodichloromethane	5.37	83	153516	99.757	ppb	95
36) Dibromomethane	5.23	93	72988	98.148	ppb	83



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

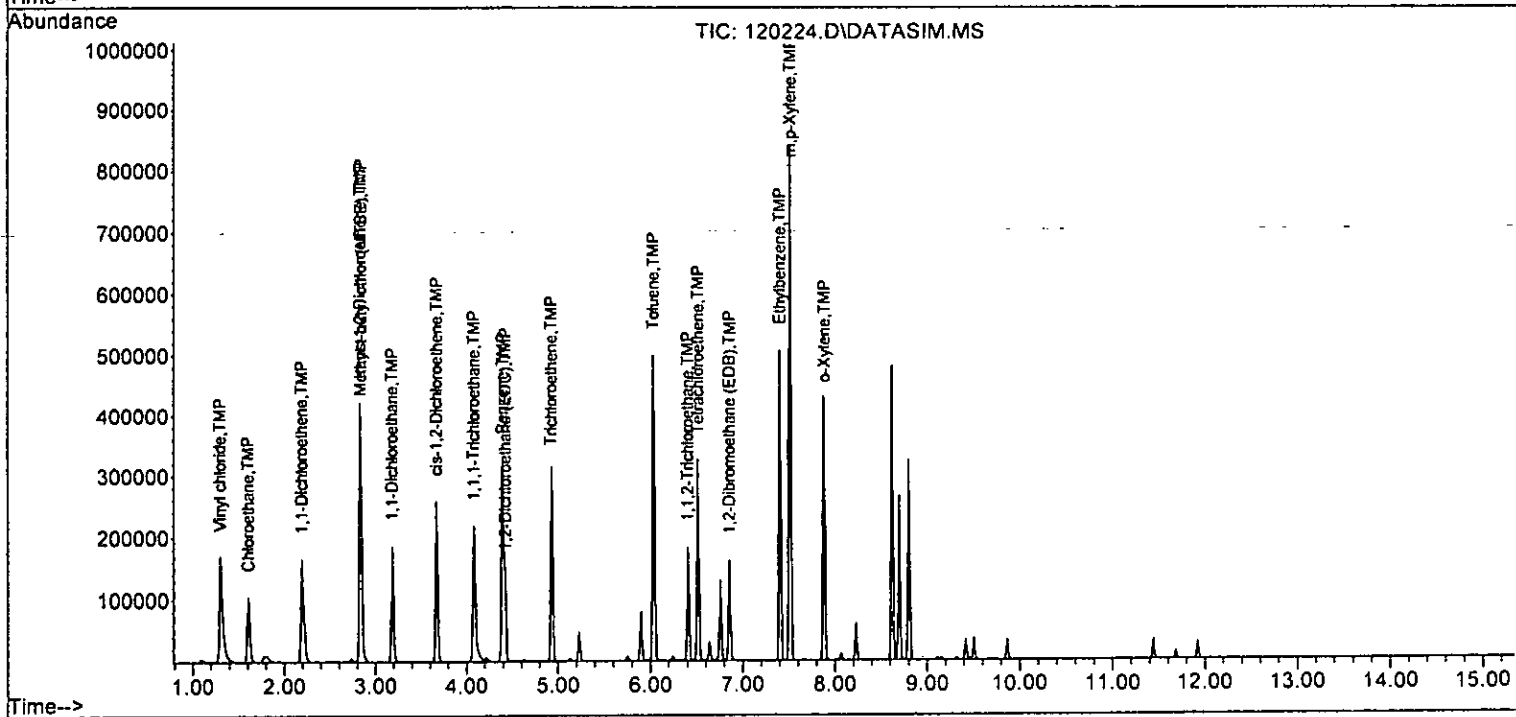
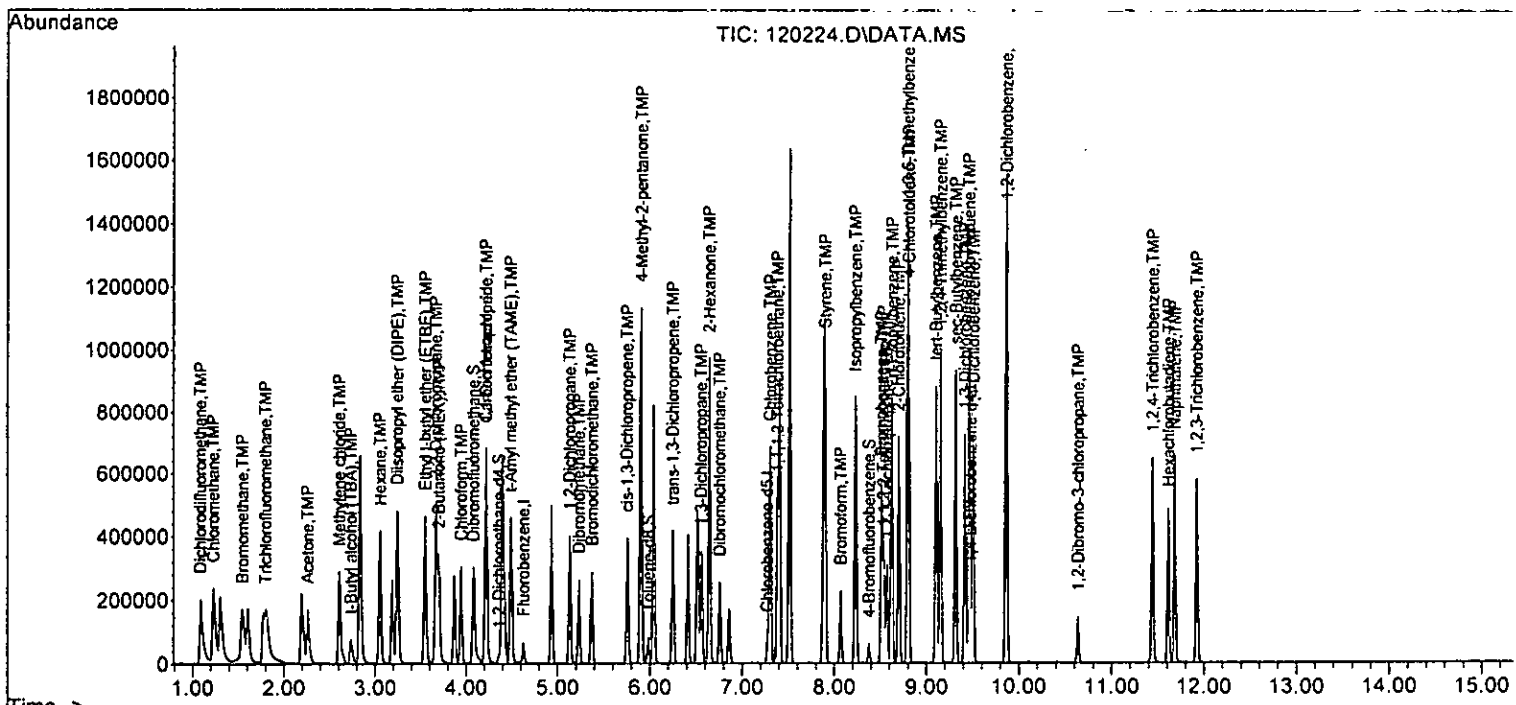
Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	111158	500.578	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	183118	100.781	ppb	95
40] Toluene	6.03	92	289629	100.906	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	168254	99.427	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	92312	101.808	ppb	98
43) 2-Hexanone	6.64	43	500442	481.832	ppb	99
44) 1,3-Dichloropropane	6.55	76	161185	99.822	ppb	97
45] Tetrachloroethene	6.51	164	110112	101.524	ppb	99
46) Dibromochloromethane	6.75	129	128004	104.869	ppb	94
47] 1,2-Dibromoethane (EDB)	6.85	107	109270	101.797	ppb	99
48) Chlorobenzene	7.30	112	313484	98.243	ppb	97
49] Ethylbenzene	7.40	91	546718	102.729	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.38	131	119204	99.834	ppb	79
51] m,p-Xylene	7.52	106	403208	197.727	ppb	# 75
52] o-Xylene	7.88	106	199345	99.565	ppb	96
53) Styrene	7.90	104	326441	97.518	ppb	95
54) Isopropylbenzene	8.23	105	519485	97.020	ppb	93
55) Bromoform	8.07	173	90450	100.841	ppb	95
58) n-Propylbenzene	8.63	91	593192	97.423	ppb	95
59) Bromobenzene	8.51	156	138620	97.640	ppb	82
60) 1,3,5-Trimethylbenzene	8.80	105	429162	96.173	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	130337	98.821	ppb	81
62) 1,2,3-Trichloropropane	8.57	75	106766	99.167	ppb	90
63) 2-Chlorotoluene	8.70	91	342569	92.739	ppb	100
64) 4-Chlorotoluene	8.81	91	406432	95.976	ppb	95
65) tert-Butylbenzene	9.10	119	388662	98.528	ppb	97
66) 1,2,4-Trimethylbenzene	9.15	105	445364	96.194	ppb	99
67) sec-Butylbenzene	9.32	105	562261	98.955	ppb	97
68) p-Isopropyltoluene	9.46	119	495718	101.863	ppb	96
69) 1,3-Dichlorobenzene	9.42	146	254108	96.196	ppb	90
70) 1,4-Dichlorobenzene	9.51	146	258086	95.835	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	245546	100.357	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.64	75	29026	102.067	ppb	97
73) 1,2,4-Trichlorobenzene	11.44	180	182390	103.665	ppb	96
74) Hexachlorobutadiene	11.61	225	95534	103.045	ppb	97
75) Naphthalene	11.68	128	438788	101.613	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	164625	103.391	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



## Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\V8120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	9.837	1.6	100	0.00
4 TMP	Dichlorodifluoromethane	150.000	150.439	-0.3	100	0.00
5 TMP	Chloromethane	150.000	148.662	0.9	100	0.00
6 TMP	Vinyl chloride	150.000	148.470	1.0	100	0.00
7 TMP	Bromomethane	150.000	149.148	0.6	100	0.00
8 TMP	Chloroethane	150.000	145.276	3.1	100	0.00
9 TMP	Trichlorofluoromethane	150.000	150.983	-0.7	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	750.000	673.219	10.2	100	0.00
12 TMP	1,1-Dichloroethene	150.000	148.339	1.1	100	0.00
13 TMP	Hexane	150.000	144.146	3.9	100	0.00
14 TMP	Methylene chloride	150.000	147.590	1.6	100	0.00
15 TMP	t-Butyl alcohol (TBA)	750.000	708.696	5.5	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	150.000	148.502	1.0	100	0.00
17 TMP	trans-1,2-Dichloroethene	150.000	148.170	1.2	100	0.00
18 TMP	Diisopropyl ether (DIPE)	150.000	136.549	9.0	100	0.00
19 TMP	1,1-Dichloroethane	150.000	148.652	0.9	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	150.000	145.642	2.9	100	0.00
21 TMP	2,2-Dichloropropane	150.000	149.632	0.2	100	0.00
22 TMP	cis-1,2-Dichloroethene	150.000	149.081	0.6	100	0.00
23 TMP	Chloroform	150.000	144.454	3.7	100	0.00
24 TMP	2-Butanone (MEK)	750.000	742.119	1.1	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	150.000	141.074	6.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	150.000	149.011	0.7	100	0.00
27 TMP	1,1,1-Trichloroethane	150.000	147.696	1.5	100	0.00
28 TMP	1,1-Dichloropropene	150.000	144.113	3.9	100	0.00
29 TMP	Carbon tetrachloride	150.000	149.994	0.0	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.988	0.1	100	0.00
31 TMP	Benzene	150.000	149.336	0.4	100	0.00
32 TMP	Trichloroethene	150.000	152.121	-1.4	100	0.00
33 TMP	1,2-Dichloropropane	150.000	138.090	7.9	100	0.00
34 TMP	Bromodichloromethane	150.000	143.954	4.0	100	0.00
35 S	Toluene-d8	10.000	10.370	-3.7	100	0.00
36 TMP	Dibromomethane	150.000	142.870	4.8	100	0.00
37 TMP	4-Methyl-2-pentanone	750.000	703.479	6.2	100	0.00
38 TMP	cis-1,3-Dichloropropene	150.000	148.105	1.3	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	150.000	148.586	0.9	100	0.00
41 TMP	trans-1,3-Dichloropropene	150.000	150.280	-0.2	100	0.00
42 TMP	1,1,2-Trichloroethane	150.000	151.262	-0.8	100	0.00
43 TMP	2-Hexanone	750.000	705.565	5.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	150.000	147.727	1.5	100	0.00
45 TMP Tetrachloroethene	150.000	150.472	-0.3	100	0.00
46 TMP Dibromochloromethane	150.000	154.579	-3.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	150.000	150.608	-0.4	100	0.00
48 TMP Chlorobenzene	150.000	146.023	2.7	100	0.00
49 TMP Ethylbenzene	150.000	150.798	-0.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	150.000	148.867	0.8	100	0.00
51 TMP m,p-Xylene	300.000	290.112	3.3	100	0.00
52 TMP o-Xylene	150.000	146.487	2.3	100	0.00
53 TMP Styrene	150.000	144.869	3.4	100	0.00
54 TMP Isopropylbenzene	150.000	143.286	4.5	100	0.00
55 TMP Bromoform	150.000	152.192	-1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.160	-1.6	100	0.00
58 TMP n-Propylbenzene	150.000	141.464	5.7	100	0.00
59 TMP Bromobenzene	150.000	145.707	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	150.000	141.197	5.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	150.000	141.457	5.7	100	0.00
62 TMP 1,2,3-Trichloropropane	150.000	145.229	3.2	100	0.00
63 TMP 2-Chlorotoluene	150.000	136.698	8.9	100	0.00
64 TMP 4-Chlorotoluene	150.000	140.218	6.5	100	0.00
65 TMP tert-Butylbenzene	150.000	145.349	3.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	150.000	142.200	5.2	100	0.00
67 TMP sec-Butylbenzene	150.000	145.425	3.0	100	0.00
68 TMP p-Isopropyltoluene	150.000	149.151	0.6	100	0.00
69 TMP 1,3-Dichlorobenzene	150.000	143.143	4.6	100	0.00
70 TMP 1,4-Dichlorobenzene	150.000	140.396	6.4	100	0.00
71 TMP 1,2-Dichlorobenzene	150.000	148.035	1.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	150.000	155.079	-3.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	150.000	154.890	-3.3	100	0.00
74 TMP Hexachlorobutadiene	150.000	150.324	-0.2	100	0.00
75 TMP Naphthalene	150.000	151.912	-1.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	150.000	156.336	-4.2	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq Dn : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.259	1.9	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	0.840	11.7	100	0.00
6 TMP Vinyl chloride	0.862	0.738	14.4	100	0.00
7 TMP Bromomethane	0.441	0.380	13.8	100	0.00
8 TMP Chloroethane	0.341	0.320	6.2	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.905	-0.7	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.028	9.7	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.244	10.0	100	0.00
13 TMP Hexane	0.469	0.401	14.5	100	0.00
14 TMP Methylene chloride	0.269	0.252	6.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.044	4.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.731	10.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.263	16.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.867	9.0	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.492	10.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.298	2.9	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.302	13.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.290	11.9	100	0.00
23 TMP Chloroform	0.477	0.459	3.8	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.160	7.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.695	6.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.390	18.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.456	7.7	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.354	3.8	100	0.00
29 TMP Carbon tetrachloride	0.396	0.396	0.0	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	1.103	0.983	10.9	100	0.00
32 TMP Trichloroethene	0.368	0.322	12.5	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.290	7.9	100	0.00
34 TMP Bromodichloromethane	0.375	0.360	4.0	100	0.00
35 S Toluene-d8	0.975	1.012	-3.8	100	0.00
36 TMP Dibromomethane	0.181	0.173	4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.051	5.6	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.437	1.4	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.853	13.5	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.509	-0.2	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.272	4.6	100	0.00
43 TMP 2-Hexanone	0.312	0.293	6.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.477	1.4	100	0.00
45 TMP Tetrachloroethene	0.420	0.324	22.9#	100	0.00
46 TMP Dibromochloromethane	0.366	0.377	-3.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.323	14.8	100	0.00
48 TMP Chlorobenzene	0.957	0.932	2.6	100	0.00
49 TMP Ethylbenzene	1.885	1.605	14.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.355	0.8	100	0.00
51 TMP m,p-Xylene	0.705	0.591	16.2	100	0.00
52 TMP o-Xylene	0.683	0.586	14.2	100	0.00
53 TMP Styrene	1.004	0.970	3.4	100	0.00
54 TMP Isopropylbenzene	1.606	1.534	4.5	100	0.00
55 TMP Bromoform	0.269	0.273	-1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.878	-1.6	100	0.00
58 TMP n-Propylbenzene	3.386	3.193	5.7	100	0.00
59 TMP Bromobenzene	0.790	0.767	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.336	5.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.692	5.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.580	3.2	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.872	8.9	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.201	6.5	100	0.00
65 TMP tert-Butylbenzene	2.194	2.126	3.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.441	5.2	100	0.00
67 TMP sec-Butylbenzene	3.160	3.063	3.1	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.691	0.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.402	4.6	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.402	6.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.343	1.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.164	-3.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	1.010	-3.3	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.517	-0.2	100	0.00
75 TMP Naphthalene	2.401	2.432	-1.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.923	-4.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	42305	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	33999	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	18471	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	10967	9.837	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	98.40%		
30) 1,2-Dichloroethane-d4	4.36	102	2519	9.988	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	99.90%		
35) Toluene-d8	5.98	98	42794	10.370	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	103.70%		
57) 4-Bromofluorobenzene	8.38	95	16215	10.160	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	101.60%		
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	452856	150.439	ppb		96
5) Chloromethane	1.22	50	533042	148.662	ppb		99
6) Vinyl chloride	1.29	62	468510	148.470	ppb		91
7) Bromomethane	1.53	94	240924	149.148	ppb	#	60
8) Chloroethane	1.60	64	202998	145.276	ppb		86
9) Trichlorofluoromethane	1.77	101	574327	150.983	ppb		66
10) 2-Propanol	2.41	45	441	No Calib			
11) Acetone	2.26	58	88865	673.219	ppb		96
12) 1,1-Dichloroethene	2.19	96	154971	148.339	ppb		96
13) Hexane	3.05	57	254294	144.146	ppb		94
14) Methylene chloride	2.61	84	159649	147.590	ppb		81
15) t-Butyl alcohol (TBA)	2.73	59	138717	708.696	ppb		98
16) Methyl t-butyl ether (...)	2.83	73	464051	148.502	ppb		99
17) trans-1,2-Dichloroethene	2.83	96	167019	148.170	ppb		99
18) Diisopropyl ether (DIPE)	3.24	45	550293	136.549	ppb		100
19) 1,1-Dichloroethane	3.18	63	312458	148.652	ppb		100
20) Ethyl t-butyl ether (E...)	3.54	87	189349	145.642	ppb		90
21) 2,2-Dichloropropane	3.67	77	191670	149.632	ppb		89
22) cis-1,2-Dichloroethene	3.67	96	183911	149.081	ppb		98
23) Chloroform	3.94	83	291209	144.454	ppb		91
24) 2-Butanone (MEK)	3.70	43	507911	742.119	ppb		97
25) t-Amyl methyl ether (T...)	4.49	73	440831	141.074	ppb		98
26) 1,2-Dichloroethane (EDC)	4.41	62	247316	149.011	ppb		100
27) 1,1,1-Trichloroethane	4.08	97	289235	147.696	ppb		99
28) 1,1-Dichloropropene	4.22	75	224486	144.113	ppb		91
29) Carbon tetrachloride	4.21	117	251313	149.994	ppb		96
31) Benzene	4.39	78	623791	149.336	ppb		98
32) Trichloroethene	4.93	95	204544	152.121	ppb		99
33) 1,2-Dichloropropane	5.13	63	183929	138.090	ppb		100
34) Bromodichloromethane	5.37	83	228526	143.954	ppb		97
36) Dibromomethane	5.23	93	109600	142.870	ppb		82

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

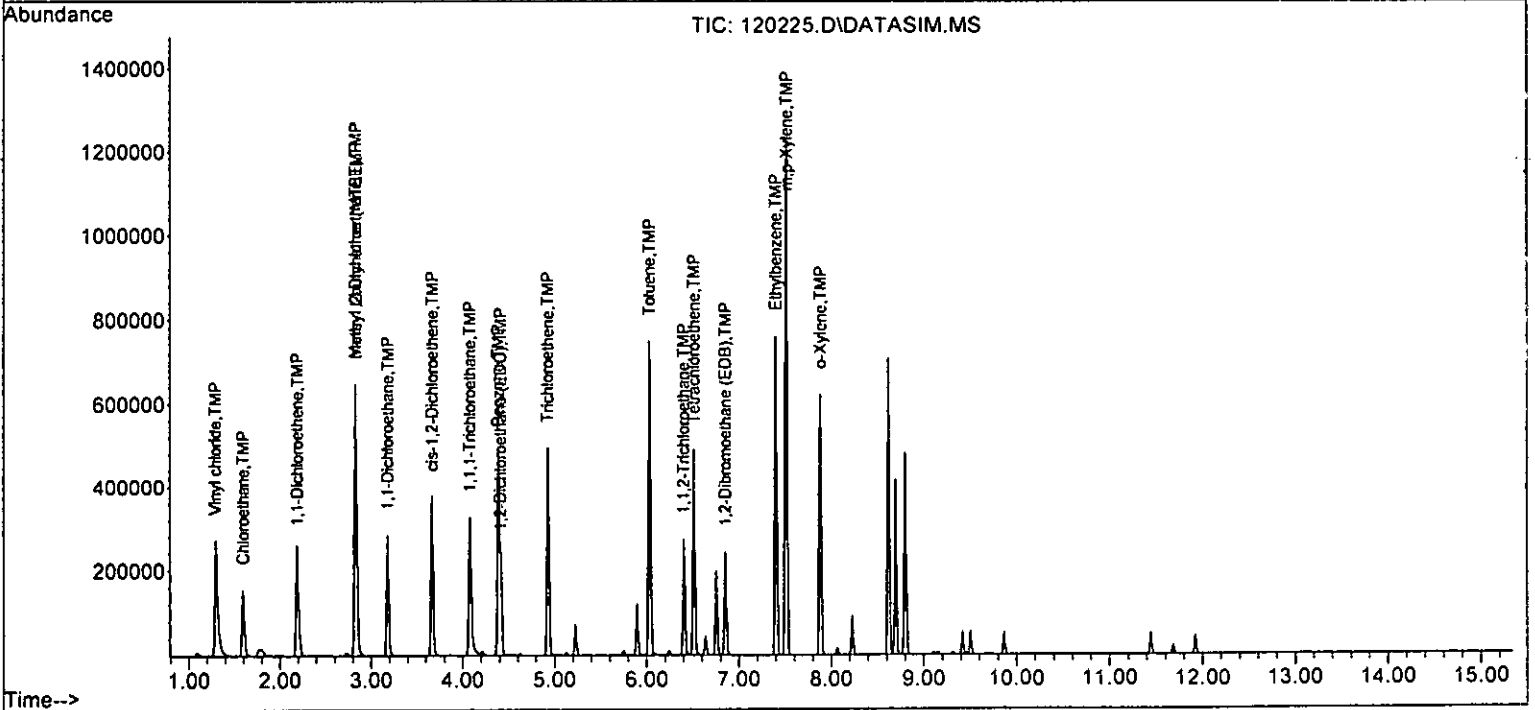
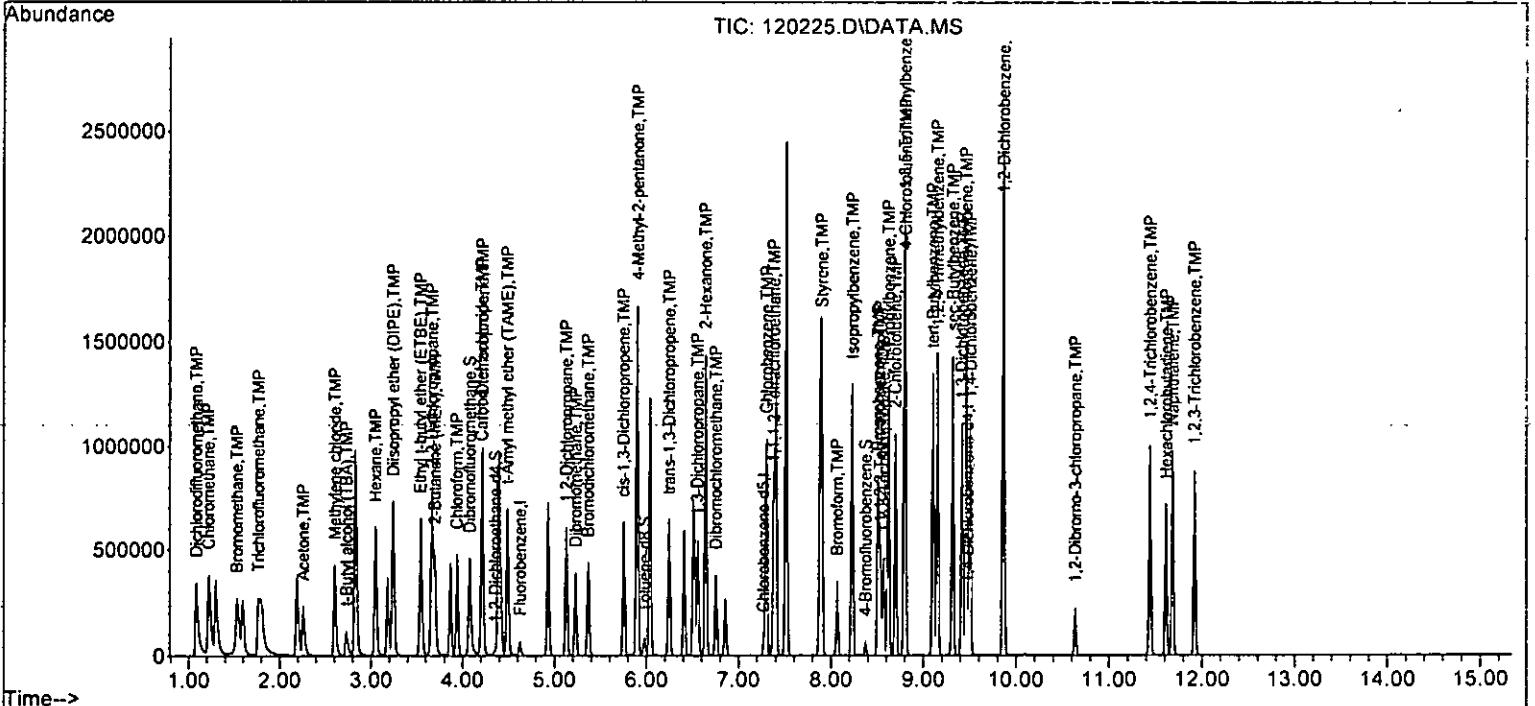
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	161147	703.479	ppb	97
38) cis-1,3-Dichloropropene	5.75	75	277603	148.105	ppb	95
40] Toluene	6.03	92	434928	148.586	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	259366	150.280	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	138590	151.262	ppb	99
43) 2-Hexanone	6.64	43	747390	705.565	ppb	99
44) 1,3-Dichloropropane	6.55	76	243282	147.727	ppb	100
45] Tetrachloroethene	6.51	164	165348	150.472	ppb	99
46) Dibromochloromethane	6.75	129	192432	154.579	ppb	95
47] 1,2-Dibromoethane (EDB)	6.85	107	164862	150.608	ppb	99
48) Chlorobenzene	7.30	112	475210	146.023	ppb	98
49] Ethylbenzene	7.40	91	818414	150.798	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	181285	148.867	ppb	79
51] m,p-Xylene	7.52	106	603310	290.112	ppb #	79
52] o-Xylene	7.88	106	299097	146.487	ppb	91
53) Styrene	7.90	104	494593	144.869	ppb	95
54) Isopropylbenzene	8.23	105	782475	143.286	ppb	96
55) Bromoform	8.07	173	139225	152.192	ppb	97
58) n-Propylbenzene	8.63	91	884772	141.464	ppb	92
59) Bromobenzene	8.51	156	212486	145.707	ppb	86
60) 1,3,5-Trimethylbenzene	8.80	105	647213	141.197	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	191643	141.457	ppb	79
62) 1,2,3-Trichloropropane	8.57	75	160610	145.229	ppb	93
63) 2-Chlorotoluene	8.70	91	518682	136.698	ppb	99
64) 4-Chlorotoluene	8.81	91	609930	140.218	ppb	95
65) tert-Butylbenzene	9.10	119	588946	145.349	ppb	97
66) 1,2,4-Trimethylbenzene	9.15	105	676264	142.200	ppb	98
67) sec-Butylbenzene	9.32	105	848774	145.425	ppb	96
68) p-Isopropyltoluene	9.46	119	745590	149.151	ppb	96
69) 1,3-Dichlorobenzene	9.42	146	388405	143.143	ppb	92
70) 1,4-Dichlorobenzene	9.51	146	388373	140.396	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	372051	148.035	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.64	75	45301	155.079	ppb	98
73) 1,2,4-Trichlorobenzene	11.44	180	279926	154.890	ppb	98
74) Hexachlorobutadiene	11.61	225	143156	150.324	ppb	96
75) Naphthalene	11.68	128	673828	151.912	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	255696	156.336	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

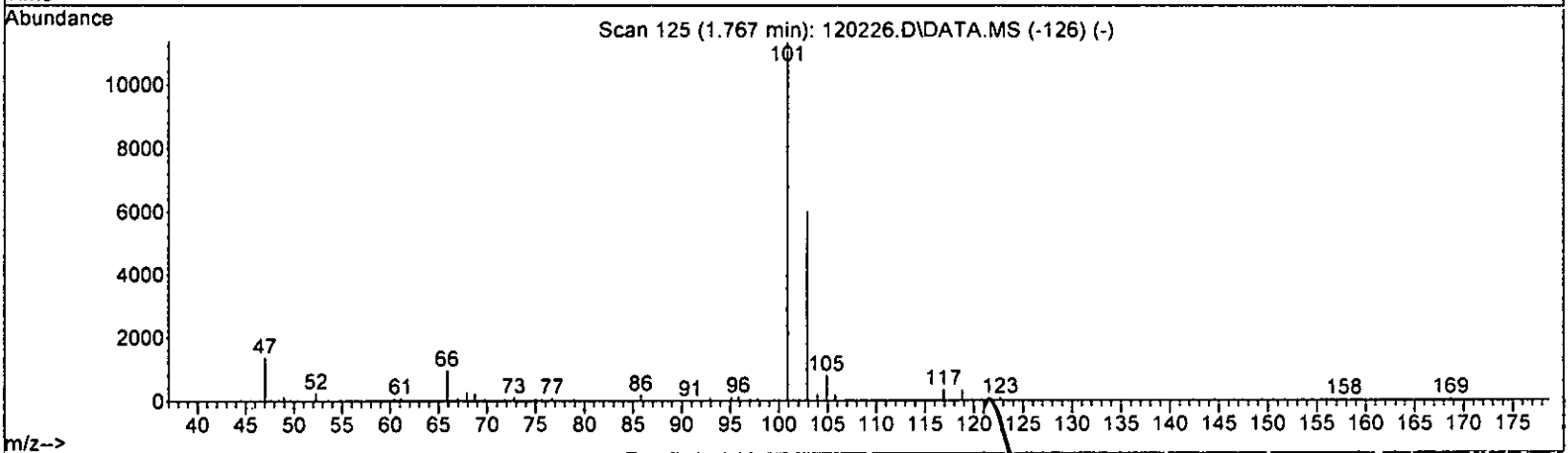
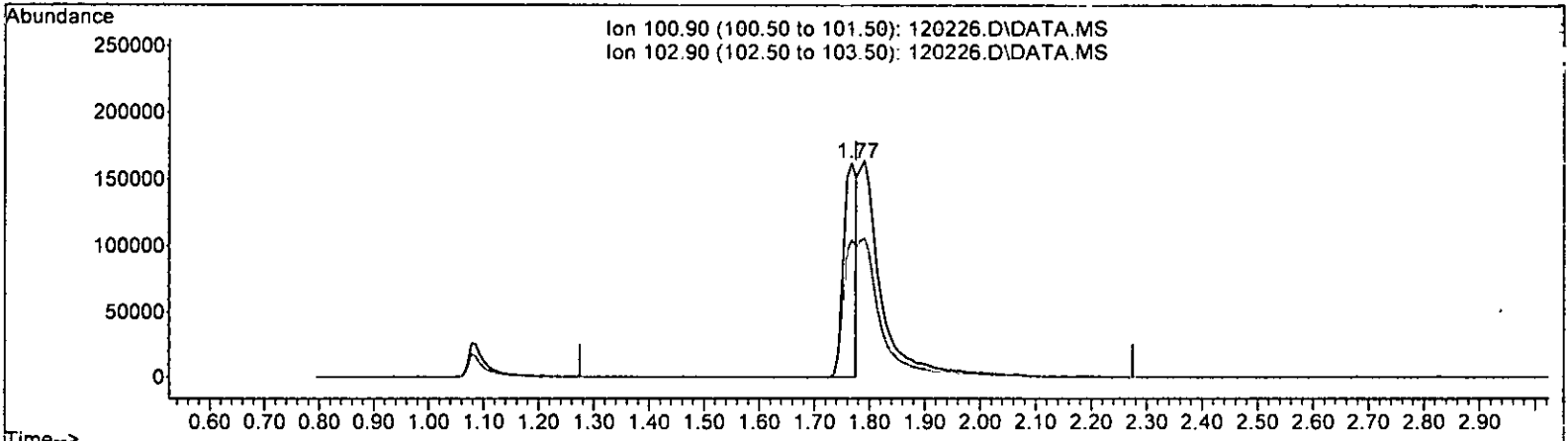
Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120226.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.767min (-0.008) 70.990 ppb

response 266394

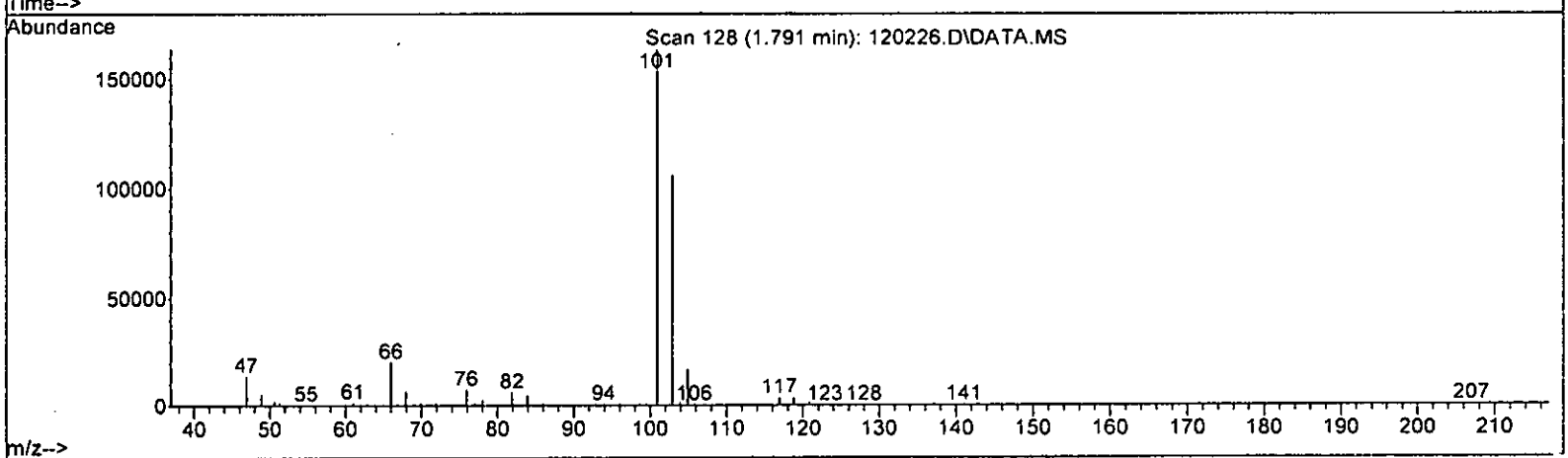
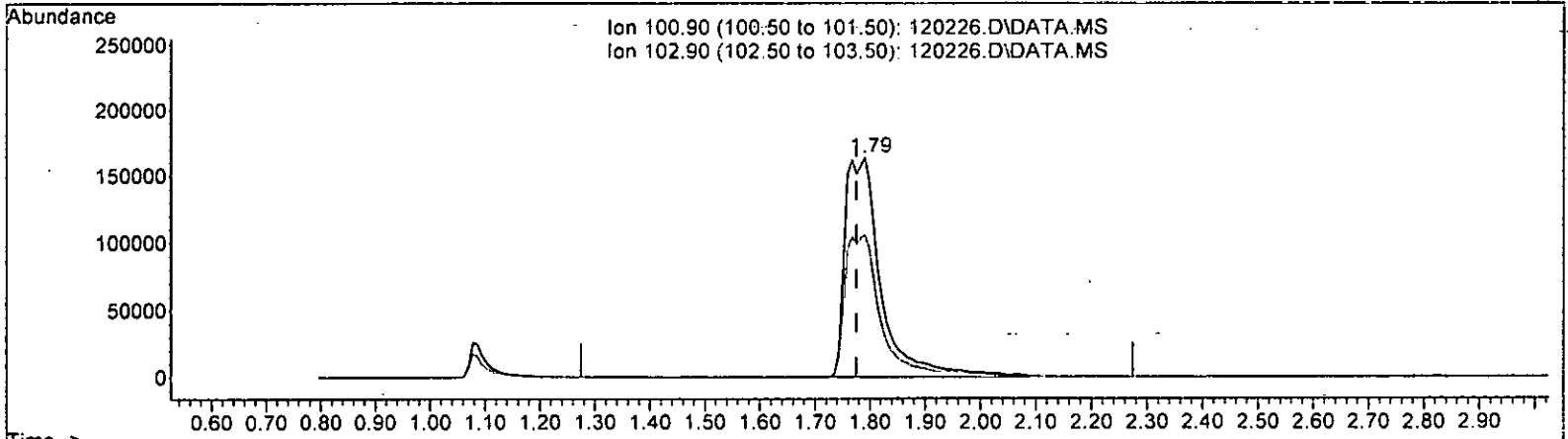
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.25
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120226.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.791min (+ 0.016) 205.020 ppb m

response 769356

Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.40
0.00	0.00	0.00
0.00	0.00	0.00

*m/z 5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.02
3 S Dibromofluoromethane	10.000	10.237	-2.4	100	0.00
4 TMP Dichlorodifluoromethane	200.000	200.647	-0.3	100	0.00
5 TMP Chloromethane	200.000	199.762	0.1	100	0.00
6 TMP Vinyl chloride	200.000	197.626	1.2	100	0.00
7 TMP Bromomethane	200.000	197.339	1.3	100	0.00
8 TMP Chloroethane	200.000	190.720	4.6	100	-0.02
9 TMP Trichlorofluoromethane	200.000	205.020	-2.5	105	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	1000.000	913.849	8.6	100	-0.02
12 TMP 1,1-Dichloroethene	200.000	197.726	1.1	100	0.00
13 TMP Hexane	200.000	203.142	-1.6	100	0.00
14 TMP Methylene chloride	200.000	201.171	-0.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	1000.000	968.711	3.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	200.000	196.588	1.7	100	0.00
17 TMP trans-1,2-Dichloroethene	200.000	197.166	1.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	200.000	180.478	9.8	100	0.00
19 TMP 1,1-Dichloroethane	200.000	196.655	1.7	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	200.000	193.796	3.1	100	0.00
21 TMP 2,2-Dichloropropane	200.000	195.403	2.3	100	0.00
22 TMP cis-1,2-Dichloroethene	200.000	198.146	0.9	100	0.00
23 TMP Chloroform	200.000	192.510	3.7	100	0.00
24 TMP 2-Butanone (MEK)	1000.000	1000.134	-0.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	200.000	190.057	5.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	200.000	197.675	1.2	100	0.00
27 TMP 1,1,1-Trichloroethane	200.000	200.881	-0.4	100	0.00
28 TMP 1,1-Dichloropropene	200.000	193.426	3.3	100	0.00
29 TMP Carbon tetrachloride	200.000	200.395	-0.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.189	-1.9	100	0.00
31 TMP Benzene	200.000	199.834	0.1	100	0.00
32 TMP Trichloroethene	200.000	204.519	-2.3	100	0.00
33 TMP 1,2-Dichloropropane	200.000	183.873	8.1	100	0.00
34 TMP Bromodichloromethane	200.000	194.386	2.8	100	0.00
35 S Toluene-d8	10.000	9.953	0.5	100	0.00
36 TMP Dibromomethane	200.000	190.714	4.6	100	0.00
37 TMP 4-Methyl-2-pentanone	1000.000	959.157	4.1	100	0.00
38 TMP cis-1,3-Dichloropropene	200.000	196.788	1.6	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	200.000	192.021	4.0	100	0.00
41 TMP trans-1,3-Dichloropropene	200.000	193.027	3.5	100	0.00
42 TMP 1,1,2-Trichloroethane	200.000	198.293	0.9	100	0.00
43 TMP 2-Hexanone	1000.000	910.426	9.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	200.000	192.113	3.9	100	0.00
45 TMP Tetrachloroethene	200.000	198.996	0.5	100	0.00
46 TMP Dibromochloromethane	200.000	201.906	-1.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	200.000	194.283	2.9	100	0.00
48 TMP Chlorobenzene	200.000	190.337	4.8	100	0.00
49 TMP Ethylbenzene	200.000	194.308	2.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	200.000	191.943	4.0	100	0.00
51 TMP m,p-Xylene	400.000	374.985	6.3	100	0.00
52 TMP o-Xylene	200.000	189.296	5.4	100	0.00
53 TMP Styrene	200.000	186.555	6.7	100	0.00
54 TMP Isopropylbenzene	200.000	185.671	7.2	100	0.00
55 TMP Bromoform	200.000	199.448	0.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.721	2.8	100	0.00
58 TMP n-Propylbenzene	200.000	182.658	8.7	100	0.00
59 TMP Bromobenzene	200.000	186.352	6.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	200.000	181.401	9.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	200.000	182.641	8.7	100	0.00
62 TMP 1,2,3-Trichloropropane	200.000	186.482	6.8	100	0.00
63 TMP 2-Chlorotoluene	200.000	176.891	11.6	100	0.00
64 TMP 4-Chlorotoluene	200.000	178.621	10.7	100	0.00
65 TMP tert-Butylbenzene	200.000	187.527	6.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	200.000	182.351	8.8	100	0.00
67 TMP sec-Butylbenzene	200.000	188.649	5.7	100	0.00
68 TMP p-Isopropyltoluene	200.000	192.541	3.7	100	0.00
69 TMP 1,3-Dichlorobenzene	200.000	185.348	7.3	100	0.00
70 TMP 1,4-Dichlorobenzene	200.000	181.419	9.3	100	0.00
71 TMP 1,2-Dichlorobenzene	200.000	189.830	5.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	200.000	204.635	-2.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	200.000	201.817	-0.9	100	0.00
74 TMP Hexachlorobutadiene	200.000	195.782	2.1	100	0.00
75 TMP Naphthalene	200.000	199.180	0.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	200.000	203.645	-1.8	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.02
3 S	Dibromofluoromethane	0.264	0.270	-2.3	100	0.00
4 TMP	Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP	Chloromethane	0.951	0.846	11.0	100	0.00
6 TMP	Vinyl chloride	0.862	0.737	14.5	100	0.00
7 TMP	Bromomethane	0.441	0.375	15.0	100	0.00
8 TMP	Chloroethane	0.341	0.315	7.6	100	-0.02
9 TMP	Trichlorofluoromethane	0.899	0.922	-2.6	105	0.02
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.031	0.029	6.5	100	-0.02
12 TMP	1,1-Dichloroethene	0.271	0.244	10.0	100	0.00
13 TMP	Hexane	0.469	0.423	9.8	100	0.00
14 TMP	Methylene chloride	0.269	0.254	5.6	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.812	0.726	10.6	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.314	0.263	16.2	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.953	0.860	9.8	100	0.00
19 TMP	1,1-Dichloroethane	0.547	0.489	10.6	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.307	0.298	2.9	100	0.00
21 TMP	2,2-Dichloropropane	0.347	0.296	14.7	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.329	0.289	12.2	100	0.00
23 TMP	Chloroform	0.477	0.459	3.8	100	0.00
24 TMP	2-Butanone (MEK)	0.173	0.162	6.4	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.739	0.702	5.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.479	0.388	19.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.494	0.465	5.9	100	0.00
28 TMP	1,1-Dichloropropene	0.368	0.356	3.3	100	0.00
29 TMP	Carbon tetrachloride	0.396	0.397	-0.3	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	1.103	0.977	11.4	100	0.00
32 TMP	Trichloroethene	0.368	0.325	11.7	100	0.00
33 TMP	1,2-Dichloropropane	0.315	0.289	8.3	100	0.00
34 TMP	Bromodichloromethane	0.375	0.365	2.7	100	0.00
35 S	Toluene-d8	0.975	0.971	0.4	100	0.00
36 TMP	Dibromomethane	0.181	0.173	4.4	100	0.00
37 TMP	4-Methyl-2-pentanone	0.054	0.052	3.7	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.443	0.436	1.6	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.986	0.827	16.1	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.508	0.490	3.5	100	0.00
42 TMP	1,1,2-Trichloroethane	0.285	0.265	7.0	100	0.00
43 TMP	2-Hexanone	0.312	0.284	9.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.465	3.9	100	0.00
45 TMP Tetrachloroethene	0.420	0.319	24.0#	100	0.00
46 TMP Dibromochloromethane	0.366	0.370	-1.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.313	17.4	100	0.00
48 TMP Chlorobenzene	0.957	0.911	4.8	100	0.00
49 TMP Ethylbenzene	1.885	1.551	17.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.344	3.9	100	0.00
51 TMP m,p-Xylene	0.705	0.573	18.7	100	0.00
52 TMP o-Xylene	0.683	0.568	16.8	100	0.00
53 TMP Styrene	1.004	0.937	6.7	100	0.00
54 TMP Isopropylbenzene	1.606	1.491	7.2	100	0.00
55 TMP Bromoform	0.269	0.268	0.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.840	2.8	100	0.00
58 TMP n-Propylbenzene	3.386	3.092	8.7	100	0.00
59 TMP Bromobenzene	0.790	0.736	6.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.251	9.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.670	8.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.558	6.8	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.817	11.5	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.103	10.7	100	0.00
65 TMP tert-Butylbenzene	2.194	2.057	6.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.347	8.9	100	0.00
67 TMP sec-Butylbenzene	3.160	2.980	5.7	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.605	3.7	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.361	7.4	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.358	9.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.291	5.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.162	-2.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.987	-0.9	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.505	2.1	100	0.00
75 TMP Naphthalene	2.401	2.392	0.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.902	-1.9	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	103	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.814	1.9	103	0.00
4 TMP Dichlorodifluoromethane	10.000	8.544	14.6	88	0.00
5 TMP Chloromethane	10.000	8.757	12.4	95	0.00
6 TMP Vinyl chloride	10.000	9.576	4.2	96	0.00
7 TMP Bromomethane	10.000	8.449	15.5	94	0.00
8 TMP Chloroethane	10.000	10.480	-4.8	100	0.00
9 TMP Trichlorofluoromethane	10.000	8.980	10.2	88	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	50.694	-1.4	106	0.00
12 TMP 1,1-Dichloroethene	10.000	10.114	-1.1	101	0.00
13 TMP Hexane	10.000	9.157	8.4	94	0.00
14 TMP Methylene chloride	10.000	9.591	4.1	101	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	48.119	3.8	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.195	-2.0	99	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.317	-3.2	99	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.139	8.6	98	0.00
19 TMP 1,1-Dichloroethane	10.000	9.978	0.2	99	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	9.921	0.8	99	0.00
21 TMP 2,2-Dichloropropane	10.000	9.145	8.6	96	0.00
22 TMP cis-1,2-Dichloroethene	10.000	9.830	1.7	98	0.00
23 TMP Chloroform	10.000	9.698	3.0	103	0.00
24 TMP 2-Butanone (MEK)	50.000	54.827	-9.7	105	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	9.622	3.8	102	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	9.964	0.4	99	0.00
27 TMP 1,1,1-Trichloroethane	10.000	9.585	4.1	98	0.00
28 TMP 1,1-Dichloropropene	10.000	9.524	4.8	99	0.00
29 TMP Carbon tetrachloride	10.000	9.660	3.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.538	4.6	98	0.00
31 TMP Benzene	10.000	9.614	3.9	98	0.00
32 TMP Trichloroethene	10.000	10.357	-3.6	104	0.00
33 TMP 1,2-Dichloropropane	10.000	9.070	9.3	100	0.00
34 TMP Bromodichloromethane	10.000	9.355	6.4	101	0.00
35 S Toluene-d8	10.000	9.830	1.7	98	0.00
36 TMP Dibromomethane	10.000	9.574	4.3	102	0.00
37 TMP 4-Methyl-2-pentanone	50.000	50.398	-0.8	103	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.270	7.3	97	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
40 TMP Toluene	10.000	9.946	0.5	98	0.00
41 TMP trans-1,3-Dichloropropene	10.000	10.186	-1.9	101	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.052	-0.5	101	0.00
43 TMP 2-Hexanone	50.000	53.941	-7.9	106	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.303	-3.0	103	0.00
45 TMP Tetrachloroethene	10.000	9.859	1.4	98	0.00
46 TMP Dibromochloromethane	10.000	10.273	-2.7	103	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.199	-2.0	101	0.00
48 TMP Chlorobenzene	10.000	9.891	1.1	101	0.00
49 TMP Ethylbenzene	10.000	10.334	-3.3	98	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.741	2.6	102	0.00
51 TMP m,p-Xylene	20.000	19.925	0.4	98	0.00
52 TMP o-Xylene	10.000	10.201	-2.0	100	0.00
53 TMP Styrene	10.000	9.562	4.4	96	0.00
54 TMP Isopropylbenzene	10.000	9.658	3.4	97	0.00
55 TMP Bromoform	10.000	9.710	2.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.844	1.6	100	0.00
58 TMP n-Propylbenzene	10.000	9.662	3.4	98	0.00
59 TMP Bromobenzene	10.000	9.804	2.0	101	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.764	2.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.336	6.6	95	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.697	3.0	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.353	6.5	98	0.00
64 TMP 4-Chlorotoluene	10.000	9.597	4.0	99	0.00
65 TMP tert-Butylbenzene	10.000	9.729	2.7	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.713	2.9	101	0.00
67 TMP sec-Butylbenzene	10.000	9.575	4.3	97	0.00
68 TMP p-Isopropyltoluene	10.000	9.912	0.9	99	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.620	3.8	101	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.628	3.7	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.038	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	10.553	-5.5	115	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	10.118	-1.2	106	0.00
74 TMP Hexachlorobutadiene	10.000	10.246	-2.5	103	0.00
75 TMP Naphthalene	10.000	10.320	-3.2	110	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.786	-7.9	112	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	103	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.259	1.9	103	0.00
4 TMP Dichlorodifluoromethane	0.712	0.608	14.6	88	0.00
5 TMP Chloromethane	0.951	0.762	19.9	95	0.00
6 TMP Vinyl chloride	0.862	0.716	16.9	96	0.00
7 TMP Bromomethane	0.441	0.415	5.9	94	0.00
8 TMP Chloroethane	0.341	0.349	-2.3	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.807	10.2	88	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.032	-3.2	106	0.00
12 TMP 1,1-Dichloroethene	0.271	0.250	7.7	101	0.00
13 TMP Hexane	0.469	0.395	15.8	94	0.00
14 TMP Methylene chloride	0.269	0.271	-0.7	101	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.754	7.1	99	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.276	12.1	99	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.871	8.6	98	0.00
19 TMP 1,1-Dichloroethane	0.547	0.497	9.1	99	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.305	0.7	99	0.00
21 TMP 2,2-Dichloropropane	0.347	0.282	18.7	96	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.287	12.8	98	0.00
23 TMP Chloroform	0.477	0.462	3.1	103	0.00
24 TMP 2-Butanone (MEK)	0.173	0.182	-5.2	105	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.711	3.8	102	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.392	18.2	99	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.444	10.1	98	0.00
28 TMP 1,1-Dichloropropene	0.368	0.351	4.6	99	0.00
29 TMP Carbon tetrachloride	0.396	0.383	3.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.057	5.0	98	0.00
31 TMP Benzene	1.103	0.976	11.5	98	0.00
32 TMP Trichloroethene	0.368	0.330	10.3	104	0.00
33 TMP 1,2-Dichloropropane	0.315	0.286	9.2	100	0.00
34 TMP Bromodichloromethane	0.375	0.351	6.4	101	0.00
35 S Toluene-d8	0.975	0.959	1.6	98	0.00
36 TMP Dibromomethane	0.181	0.174	3.9	102	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.055	-1.9	103	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.411	7.2	97	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
40 TMP Toluene	0.986	0.858	13.0	98	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.517	-1.8	101	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.279	2.1	101	0.00
43 TMP 2-Hexanone	0.312	0.336	-7.7	106	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.499	-3.1	103	0.00
45 TMP Tetrachloroethene	0.420	0.326	22.4#	98	0.00
46 TMP Dibromochloromethane	0.366	0.376	-2.7	103	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.329	13.2	101	0.00
48 TMP Chlorobenzene	0.957	0.947	1.0	101	0.00
49 TMP Ethylbenzene	1.885	1.655	12.2	98	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.349	2.5	102	0.00
51 TMP m,p-Xylene	0.705	0.611	13.3	98	0.00
52 TMP o-Xylene	0.683	0.614	10.1	100	0.00
53 TMP Styrene	1.004	0.960	4.4	96	0.00
54 TMP Isopropylbenzene	1.606	1.551	3.4	97	0.00
55 TMP Bromoform	0.269	0.261	3.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-8romofluorobenzene	0.864	0.851	1.5	100	0.00
58 TMP n-Propylbenzene	3.386	3.272	3.4	98	0.00
59 TMP Bromobenzene	0.790	0.774	2.0	101	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.423	2.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.685	6.5	95	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.581	3.0	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.921	6.5	98	0.00
64 TMP 4-Chlorotoluene	2.355	2.260	4.0	99	0.00
65 TMP tert-Butylbenzene	2.194	2.134	2.7	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.501	2.9	101	0.00
67 TMP sec-Butylbenzene	3.160	3.025	4.3	97	0.00
68 TMP p-Isopropyltoluene	2.706	2.683	0.8	99	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.413	3.8	101	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.442	3.7	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.366	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.167	-5.7	115	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.990	-1.2	106	0.00
74 TMP Hexachlorobutadiene	0.516	0.528	-2.3	103	0.00
75 TMP Naphthalene	2.401	2.478	-3.2	110	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.955	-7.9	112	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	44988	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35045	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19156	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11636	9.814	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.10%	
30) 1,2-Dichloroethane-d4	4.36	102	2558	9.538	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	95.40%	
35) Toluene-d8	5.98	98	43138	9.830	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	98.30%	
57) 4-Bromofluorobenzene	8.38	95	16293	9.844	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	98.40%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	27352	8.544	ppb		94
5) Chloromethane	1.23	50	34280	8.757	ppb		98
6] Vinyl chloride	1.30	62	32226	9.576	ppb		94
7) Bromomethane	1.54	94	18653	8.449	ppb	#	60
8] Chloroethane	1.61	64	15689	10.480	ppb		82
9) Trichlorofluoromethane	1.77	101	36326	8.980	ppb		68
10) 2-Propanol	2.41	45	119	No Calib			
11) Acetone	2.26	58	7116	50.694	ppb		98
12] 1,1-Dichloroethene	2.19	96	11256	10.114	ppb	#	80
13) Hexane	3.05	57	17748	9.157	ppb		97
14) Methylene chloride	2.61	84	12180	9.591	ppb		82
15) t-Butyl alcohol (TBA)	2.73	59	10016	48.119	ppb		94
16] Methyl t-butyl ether (...)	2.84	73	33936	10.195	ppb		98
17] trans-1,2-Dichloroethene	2.83	96	12405	10.317	ppb		89
18) Diisopropyl ether (DIPE)	3.24	45	39166	9.139	ppb		99
19] 1,1-Dichloroethane	3.18	63	22344	9.978	ppb		96
20) Ethyl t-butyl ether (E...)	3.55	87	13717	9.921	ppb		91
21) 2,2-Dichloropropane	3.67	77	12689	9.145	ppb		92
22] cis-1,2-Dichloroethene	3.67	96	12925	9.830	ppb		94
23) Chloroform	3.94	83	20790	9.698	ppb		92
24) 2-Butanone (MEK)	3.70	43	40996	54.827	ppb		97
25) t-Amyl methyl ether (T...)	4.49	73	31973	9.622	ppb		98
26] 1,2-Dichloroethane (EDC)	4.42	62	17654	9.964	ppb		96
27] 1,1,1-Trichloroethane	4.08	97	19986	9.585	ppb		96
28) 1,1-Dichloropropene	4.22	75	15777	9.524	ppb		89
29) Carbon tetrachloride	4.21	117	17211	9.660	ppb		92
31] Benzene	4.39	78	43890	9.614	ppb		93
32] Trichloroethene	4.93	95	14849	10.357	ppb		94
33) 1,2-Dichloropropane	5.13	63	12847	9.070	ppb		100
34) Bromodichloromethane	5.37	83	15793	9.355	ppb		95
36) Dibromomethane	5.23	93	7810	9.574	ppb		83

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	12277	50.398	ppb	97
38) cis-1,3-Dichloropropene	5.75	75	18478	9.270	ppb	93
40] Toluene	6.03	92	30086	9.946	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	18120	10.186	ppb	94
42] 1,1,2-Trichloroethane	6.40	83	9764	10.052	ppb	97
43) 2-Hexanone	6.64	43	58897	53.941	ppb	98
44) 1,3-Dichloropropane	6.55	76	17490	10.303	ppb	99
45] Tetrachloroethene	6.51	164	11431	9.859	ppb	99
46) Dibromochloromethane	6.75	129	13182	10.273	ppb	95
47] 1,2-Dibromoethane (EDB)	6.85	107	11543	10.199	ppb	99
48) Chlorobenzene	7.30	112	33180	9.891	ppb	99
49] Ethylbenzene	7.40	91	57987	10.334	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	12227	9.741	ppb	79
51] m,p-Xylene	7.51	106	42826	19.925	ppb	99
52] o-Xylene	7.88	106	21519	10.201	ppb	98
53) Styrene	7.90	104	33648	9.562	ppb	97
54) Isopropylbenzene	8.23	105	54362	9.658	ppb	97
55) Bromoform	8.07	173	9156	9.710	ppb	97
58) n-Propylbenzene	8.62	91	62670	9.662	ppb	90
59) Bromobenzene	8.51	156	14828	9.804	ppb	87
60) 1,3,5-Trimethylbenzene	8.80	105	46416	9.764	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	13118	9.336	ppb	76
62) 1,2,3-Trichloropropane	8.57	75	11122	9.697	ppb	96
63) 2-Chlorotoluene	8.70	91	36803	9.353	ppb	100
64) 4-Chlorotoluene	8.81	91	43295	9.597	ppb	96
65) tert-Butylbenzene	9.10	119	40883	9.729	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	47907	9.713	ppb	97
67) sec-Butylbenzene	9.32	105	57955	9.575	ppb	96
68) p-Isopropyltoluene	9.46	119	51388	9.912	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	27070	9.620	ppb	91
70) 1,4-Dichlorobenzene	9.51	146	27620	9.628	ppb	97
71) 1,2-Dichlorobenzene	9.86	146	26163	10.038	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.64	75	3197	10.553	ppb	85
73) 1,2,4-Trichlorobenzene	11.44	180	18964	10.118	ppb	95
74) Hexachlorobutadiene	11.61	225	10119	10.246	ppb	95
75) Naphthalene	11.68	128	47474	10.320	ppb	97
76) 1,2,3-Trichlorobenzene	11.92	180	18295	10.786	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D

Acq On : 03 Dec 2022 03:08 am

Operator : LM

Sample : 10 ppb 8260 SCV 68-26c

Misc :

ALS Vial : 100 Sample Multiplier: 1

InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022

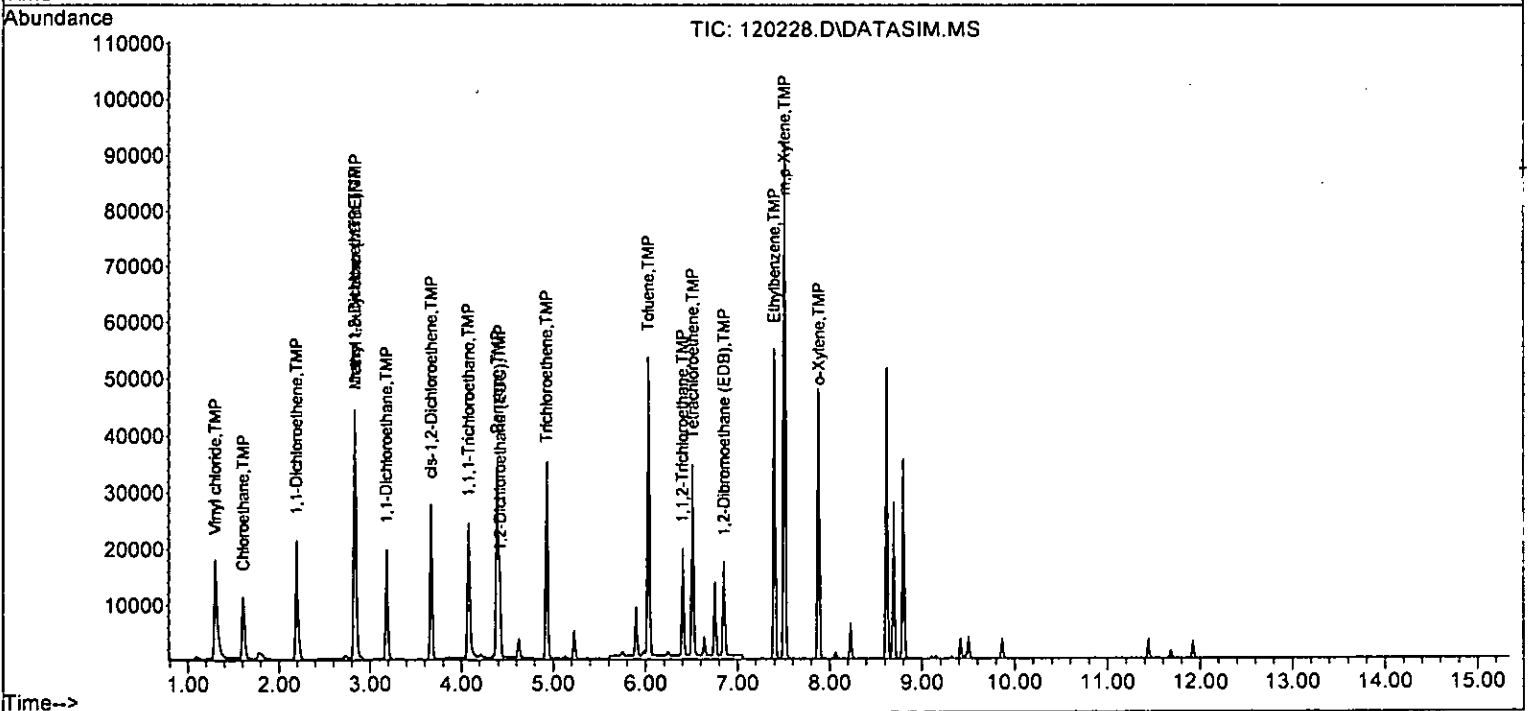
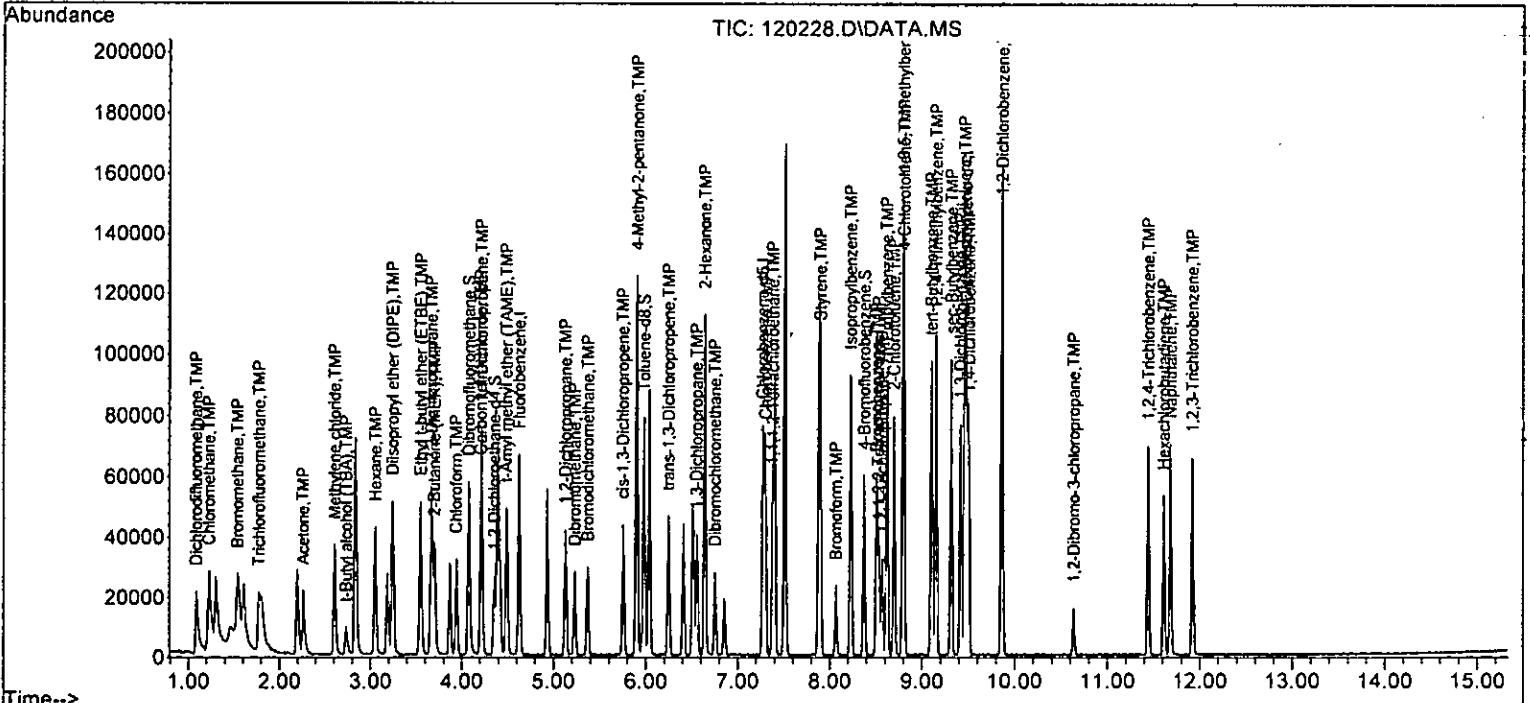
Quant Method : Y:\Methods\Inst11\VB120222ms11.M

Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition

QLast Update : Mon Dec 05 13:11:58 2022

Response via : Initial Calibration

DataAcq Meth:VM080522.M



Method Path : D:\Methods\Inst11\  
 Method File : VB121222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Tue Dec 13 13:28:26 2022  
 Response Via : Initial Calibration

Calibration Files  
 0.02=121228.D 0.04=121229.D 0.1 =121230.D 0.2 =121231.D 0.5 =121232.D 1 =121233.D 2 =121234.D 5 =121235.D 10 =121236.D 20 =121237.D  
 50 =121238.D 100 =121239.D 150 =121240.D 200 =121241.D

Compound	0.02	0.04	0.1	0.2	0.5	1	2	5	10	20	50	100	150	200	Avg	%RSD		
1) I Fluorobenzene																0.000#	-1.00	
2) TMP Ethanol																	2.74	
3) 5 Dibromofluorom...	0.271	0.281	0.255	0.262	0.258	0.259	0.257	0.258	0.266	0.266	0.262	0.271	0.260	0.269	0.264		5.37	
4) TMP Dichlorodifluo...					0.602	0.734	0.675	0.681	0.674	0.683	0.690	0.710	0.722	0.715	0.688		4.91	
5) TMP Chloromethane						0.960	0.956	0.858	0.863	0.845	0.860	0.866	0.865	0.872	0.883		9.68	
6) TMP Vinyl chloride	0.948	0.762	0.629	0.666	0.703	0.710	0.702	0.714	0.746	0.724	0.736	0.733	0.737	0.733	0.732		8.75	
7) TMP Bromomethane						0.378	0.305	0.332	0.397	0.388	0.386	0.380	0.381	0.368			8.86	
8) TMP Chloroethane						0.391	0.392	0.312	0.318	0.331	0.325	0.322	0.337	0.318	0.319	0.336		6.96
9) TMP Trichlorofluor...				0.934	0.736	0.842	0.846	0.866	0.846	0.833	0.873	0.922	0.937	0.934	0.870		7.25	
10) TMP 2-Propanol																	3.66	
11) TMP Acetone					0.041	0.042	0.038	0.034	0.035	0.035	0.035	0.037	0.037	0.038	0.037		5.43	
12) TMP 1,1-Dichloroet...	0.233	0.250	0.237	0.240	0.262	0.228	0.228	0.243	0.234	0.238	0.239	0.241	0.238	0.240			7.94	
13) TMP Hexane			0.472	0.474	0.450	0.412	0.436	0.415	0.425	0.418	0.419	0.417	0.434				2.60	
14) TMP Methylene chlo...						0.309	0.288	0.261	0.261	0.253	0.255	0.256	0.269				5.48	
15) TMP t-Butyl alcoho...																	10.21	
16) TMP Methyl t-butyl...	0.686	0.752	0.748	0.748	0.737	0.729	0.760	0.728	0.732	0.724	0.726	0.728	0.728	0.733			2.45	
17) TMP trans-1,2-Dich...	0.255	0.280	0.264	0.357	0.264	0.273	0.276	0.260	0.261	0.258	0.259	0.260	0.272				6.69	
18) TMP Diisopropyl et...		1.080	0.900	0.923	0.948	0.924	0.932	0.901	0.922	0.906	0.913	0.905	0.932				8.89	
19) TMP 1,1-Dichloroet...	0.487	0.529	0.508	0.517	0.510	0.492	0.517	0.493	0.502	0.497	0.499	0.500	0.504				2.70	
20) TMP Ethyl t-butyl ...		0.323	0.247	0.315	0.300	0.284	0.307	0.286	0.298	0.299	0.299	0.298	0.298	0.296			4.29	
21) TMP 2,2-Dichloropr...		0.378	0.357	0.323	0.308	0.299	0.316	0.280	0.299	0.310	0.301	0.304	0.316				2.70	
22) TMP cis-1,2-Dichlo...	0.292	0.303	0.288	0.293	0.288	0.277	0.290	0.277	0.283	0.280	0.281	0.283	0.286				5.67	
23) TMP Chloroform		0.509	0.539	0.489	0.487	0.472	0.458	0.450	0.457	0.456	0.465	0.466	0.477				7.70	
24) TMP 2-Butanone (MEK)			0.211	0.198	0.184	0.192	0.178	0.168	0.170	0.179	0.182	0.166	0.183				4.29	
25) TMP t-Amyl methyl ...		0.656	0.767	0.680	0.712	0.680	0.716	0.670	0.687	0.687	0.679	0.695	0.694				6.13	
26) TMP 1,2-Dichloroet...	0.454	0.469	0.424	0.424	0.409	0.391	0.409	0.392	0.392	0.398	0.394	0.396	0.399	0.413			2.69	
27) TMP 1,1,1-Trichlor...	0.410	0.444	0.438	0.446	0.446	0.428	0.446	0.432	0.445	0.444	0.444	0.450	0.453	0.440			3.63	
28) TMP 1,1-Dichloropr...		0.376	0.371	0.377	0.384	0.350	0.365	0.345	0.345	0.353	0.351	0.353	0.359	0.362			8.13	
29) TMP Carbon tetrach...		0.298	0.333	0.365	0.372	0.360	0.374	0.368	0.379	0.387	0.398	0.404	0.367				4.25	
30) 5 1,2-Dichloroet...	0.056	0.062	0.061	0.062	0.058	0.055	0.060	0.064	0.062	0.061	0.061	0.060	0.062	0.060			3.13	
31) TMP Benzene		0.991	1.074	1.007	1.033	1.017	0.971	1.008	0.967	0.981	0.973	0.979	0.985	0.999			2.52	
32) TMP Trichloroethene	0.312	0.330	0.311	0.319	0.315	0.301	0.318	0.305	0.314	0.317	0.321	0.324	0.316				6.46	
33) TMP 1,2-Dichloropr...		0.326	0.333	0.297	0.306	0.269	0.294	0.278	0.287	0.290	0.289	0.291	0.296				7.13	
34) TMP Bromodichlorom...		0.373	0.418	0.325	0.354	0.326	0.352	0.339	0.354	0.357	0.367	0.366	0.357				1.55	
35) 5 Toluene-d8	0.966	0.975	0.985	0.946	0.966	0.960	0.948	0.943	0.941	0.953	0.990	0.953	0.957	0.960			9.91	
36) TMP Dibromomethane		0.122	0.187	0.161	0.179	0.170	0.175	0.170	0.173	0.171	0.174	0.176	0.169				4.31	
37) TMP 4-Methyl-2-pen...		0.052	0.055	0.057	0.051	0.051	0.051	0.051	0.052	0.050	0.051	0.051	0.052					

Response Factor Report GCMS11

Method Path : D:\Methods\Inst11\  
 Method File : VB121222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 38) TMP cis-1,3-Dichlo... 0.595 0.412 0.388 0.425 0.378 0.418 0.411 0.416 0.418 0.424 0.429 0.429 13.35

39) I	Chlorobenzene-d5	-ISTD-												
40) TMP Toluene	0.975	0.916	0.864	0.876	0.844	0.836	0.856	0.812	0.814	0.826	0.851	0.821	0.858	5.51
41) TMP trans-1,3-Dich...	0.448	0.419	0.540	0.494	0.495	0.481	0.472	0.480	0.490	0.511	0.491	0.484	6.47	
42) TMP 1,1,2-Trichlor...	0.269	0.270	0.261	0.274	0.263	0.260	0.268	0.253	0.258	0.259	0.270	0.259	2.43	
43) TMP 2-Hexanone	0.373	0.349	0.358	0.346	0.344	0.328	0.322	0.310	0.322	0.303	0.335	0.335	6.63	
44) TMP 1,3-Dichloropr...	0.392	0.473	0.504	0.488	0.477	0.496	0.463	0.468	0.461	0.480	0.465	0.470	6.25	
45) TMP Tetrachloroethene	0.375	0.353	0.351	0.339	0.329	0.336	0.319	0.320	0.325	0.337	0.323	0.342	7.07	
46) TMP Dibromochlorom...	0.323	0.330	0.342	0.377	0.340	0.353	0.354	0.351	0.365	0.385	0.371	0.354	5.45	
47) TMP 1,2-Dibromoeth...	0.340	0.343	0.330	0.337	0.325	0.320	0.313	0.318	0.321	0.334	0.319	0.327	2.94	
48) TMP Chlorobenzene	0.967	0.902	0.944	0.903	0.920	0.938	0.901	0.896	0.923	0.956	0.927	0.925	2.59	
49) TMP Ethylbenzene	1.669	1.713	1.652	1.661	1.632	1.607	1.637	1.544	1.541	1.552	1.594	1.611	3.64	
50) TMP 1,1,1,2-Tetrac...	0.249	0.343	0.343	0.328	0.338	0.350	0.328	0.330	0.347	0.359	0.348	0.333	8.91	
51) TMP m,p-Xylene	0.642	0.649	0.630	0.630	0.618	0.605	0.615	0.576	0.574	0.576	0.595	0.577	4.53	
52) TMP o-Xylene	0.596	0.623	0.621	0.613	0.603	0.596	0.608	0.573	0.567	0.574	0.594	0.571	3.33	
53) TMP Styrene	1.002	0.894	1.026	0.985	1.016	0.999	0.937	0.941	0.954	0.990	0.960	0.973	4.07	
54) TMP Isopropylbenzene	1.708	1.559	1.577	1.567	1.549	1.607	1.493	1.505	1.528	1.591	1.520	1.564	3.80	
55) TMP Bromoform	0.227	0.233	0.258	0.238	0.244	0.255	0.248	0.257	0.263	0.281	0.272	0.252	6.51	

56) I	1,4-Dichlorobenzen...	-ISTD-															
57) S	4-8-bromofluorob...	0.814	0.848	0.822	0.837	0.855	0.839	0.842	0.822	0.856	0.849	0.819	0.846	0.895	0.877	0.844	2.68
58) TMP n-Propylbenzene	3.483	3.243	3.582	3.255	3.233	3.318	3.195	3.184	3.152	3.279	3.169	3.281	4.13				
59) TMP Bromobenzene	0.791	0.735	0.815	0.748	0.766	0.775	0.765	0.762	0.756	0.792	0.771	0.770	2.90				
60) TMP 1,3,5-Trimethy...	3.022	2.473	2.471	2.392	2.353	2.392	2.345	2.326	2.340	2.413	2.345	2.443	8.13				
61) TMP 1,1,2,2-Tetrac...	0.708	0.700	0.748	0.716	0.704	0.709	0.694	0.680	0.661	0.687	0.667	0.698	3.50				
62) TMP 1,2,3-Trichlor...	0.788	0.543	0.562	0.558	0.598	0.578	0.576	0.564	0.546	0.575	0.556	0.586	11.78				
63) TMP 2-Chlorotoluene	2.337	1.895	1.958	1.995	1.826	1.927	1.890	1.858	1.863	1.926	1.871	1.941	7.22				
64) TMP 4-Chlorotoluene	2.951	2.363	2.279	2.234	2.107	2.241	2.170	2.172	2.155	2.236	2.181	2.281	10.21				
65) TMP tert-Butylbenzene	2.292	2.123	2.214	2.097	2.037	2.128	2.089	2.099	2.113	2.212	2.143	2.141	3.36				
66) TMP 1,2,4-Trimethy...	2.838	2.581	2.488	2.348	2.358	2.476	2.415	2.385	2.390	2.501	2.457	2.476	5.61				
67) TMP sec-Butylbenzene	3.358	3.087	3.143	3.073	2.962	3.055	3.076	3.049	3.040	3.175	3.113	3.103	3.27				
68) TMP p-Isopropyltol...	2.690	2.647	2.701	2.651	2.557	2.707	2.636	2.658	2.669	2.775	2.698	2.672	2.03				
69) TMP 1,3-Dichlorobe...	1.574	1.430	1.453	1.475	1.358	1.417	1.407	1.412	1.386	1.444	1.417	1.434	3.93				
70) TMP 1,4-Dichlorobe...	1.640	1.478	1.560	1.454	1.376	1.448	1.427	1.415	1.392	1.452	1.428	1.461	5.25				
71) TMP 1,2-Dichlorobe...	1.351	1.505	1.426	1.361	1.340	1.390	1.361	1.351	1.336	1.393	1.365	1.380	3.56				
72) TMP 1,2-Dibromo-3-...	0.154	0.158	0.142	0.142	0.149	0.155	0.153	0.155	0.168	0.162	0.155	0.155	4.70				
73) TMP 1,2,4-Trichlor...	0.890	0.919	0.977	0.936	0.922	0.968	0.994	1.002	1.024	1.085	1.061	0.980	6.23				
74) TMP Hexachlorobuta...	0.605	0.526	0.499	0.507	0.520	0.540	0.542	0.545	0.551	0.575	0.546	0.542	5.53				
75) TMP Naphthalene	3.498	2.667	2.424	2.424	2.449	2.383	2.368	2.420	2.617	2.547	2.597	2.597	13.62				
76) TMP 1,2,3-Trichlor...	0.906	0.885	0.816	0.842	0.855	0.916	0.906	0.907	0.939	1.002	0.970	0.904	6.04				

(#) = Out of Range



## Compound List Report GCMS11

Method Path : D:\Methods\Inst11\

Method File : VB121222ms11.M

Title : 8260 Purge &amp; Trap Volatiles Dual Acquisition

Last Update : Tue Dec 13 13:28:26 2022

Response Via : Initial Calibration

Total Cpnds : 76

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Fluorobenzene	96	4.63	1.000	A	1	A	B
2	T	Ethanol	45	1.86	0.402	A	1	A	B
3	S	Dibromofluoromethane	113	4.07	0.879	A	0	A	B
4	T	Dichlorodifluoromethane	85	1.08	0.233	A	1	A	B
5	T	Chloromethane	50	1.22	0.263	A	1	A	B
6	T	Vinyl chloride	-62	1.29	0.279	A	1	A	B
7	T	Bromomethane	94	1.53	0.331	A	1	A	B
8	T	Chloroethane	-64	1.59	0.343	A	1	A	B
9	T	Trichlorofluoromethane	101	1.79	0.387	A	1	A	B
10	T	2-Propanol	45	2.41	0.521	A	1	A	B
11	T	Acetone	58	2.26	0.489	A	1	A	B
12	T	1,1-Dichloroethene	-96	2.19	0.472	A	2	A	B
13	T	Hexane	57	3.05	0.659	A	2	A	B
14	T	Methylene chloride	84	2.60	0.562	A	2	A	B
15	T	t-Butyl alcohol (TBA)	59	2.73	0.590	A	1	A	B
16	T	Methyl t-butyl ether (MTBE)	-73	2.83	0.611	A	1	A	B
17	T	trans-1,2-Dichloroethene	-96	2.82	0.610	A	2	A	B
18	T	Diisopropyl ether (DIPE)	45	3.24	0.701	A	3	A	B
19	T	1,1-Dichloroethane	-63	3.18	0.688	A	2	A	B
20	T	Ethyl t-butyl ether (ETBE)	87	3.55	0.767	A	3	A	B
21	T	2,2-Dichloropropane	77	3.66	0.791	A	1	A	B
22	T	cis-1,2-Dichloroethene	-96	3.67	0.793	A	2	A	B
23	T	Chloroform	83	3.94	0.851	A	1	A	B
24	T	2-Butanone (MEK)	43	3.70	0.799	A	2	A	B
25	T	t-Amyl methyl ether (TAME)	73	4.49	0.970	A	2	A	B
26	T	1,2-Dichloroethane (EDC)	-62	4.41	0.953	A	1	A	B
27	T	1,1,1-Trichloroethane	-97	4.08	0.882	A	2	A	B
28	T	1,1-Dichloropropene	75	4.22	0.911	A	2	A	B
29	T	Carbon tetrachloride	117	4.21	0.909	A	1	A	B
30	S	1,2-Dichloroethane-d4	102	4.35	0.940	A	1	A	B
31	T	Benzene	-78	4.38	0.948	A	1	A	B
32	T	Trichloroethene	-95	4.93	1.065	A	3	A	B
33	T	1,2-Dichloropropane	63	5.13	1.109	A	1	A	B
34	T	Bromodichloromethane	83	5.37	1.159	A	2	A	B
35	S	Toluene-d8	98	5.98	1.293	A	1	A	B
36	T	Dibromomethane	93	5.23	1.131	A	2	A	B
37	T	4-Methyl-2-pentanone	85	5.91	1.276	A	2	A	B
38	T	cis-1,3-Dichloropropene	75	5.75	1.243	A	2	A	B
39	I	Chlorobenzene-d5	117	7.27	1.000	A	1	A	B
40	T	Toluene	-92	6.03	0.829	A	1	A	B
41	T	trans-1,3-Dichloropropene	75	6.25	0.859	A	2	A	B
42	T	1,1,2-Trichloroethane	-83	6.40	0.881	A	2	A	B
43	T	2-Hexanone	43	6.64	0.913	A	3	A	B
44	T	1,3-Dichloropropane	76	6.55	0.901	A	1	A	B
45	T	Tetrachloroethene	-164	6.51	0.896	A	3	A	B
46	T	Dibromochloromethane	129	6.75	0.929	A	1	A	B
47	T	1,2-Dibromoethane (EDB)	-107	6.85	0.943	A	2	A	B
48	T	Chlorobenzene	112	7.30	1.004	A	2	A	B
49	T	Ethylbenzene	-91	7.40	1.018	A	1	A	B
50	T	1,1,1,2-Tetrachloroethane	131	7.38	1.015	A	2	A	B
51	T	m,p-Xylene	-106	7.51	1.033	A	1	A	B
52	T	o-Xylene	-106	7.88	1.084	A	1	A	B
53	T	Styrene	104	7.90	1.086	A	1	A	B
54	T	Isopropylbenzene	105	8.23	1.131	A	1	A	B
55	T	Bromoform	173	8.07	1.110	A	2	A	B

56	I	1,4-Dichlorobenzene-d4	152	9.48	1.000	A	2	A	B
57	S	4-Bromofluorobenzene	95	8.38	0.883	A	2	A	B
58	T	n-Propylbenzene	91	8.63	0.910	A	1	A	B
59	T	Bromobenzene	156	8.51	0.897	A	2	A	B
60	T	1,3,5-Trimethylbenzene	105	8.79	0.927	A	1	A	B
61	T	1,1,2,2-Tetrachloroethane	83	8.53	0.900	A	2	A	B
62	T	1,2,3-Trichloropropane	75	8.57	0.904	A	3	A	R
63	T	2-Chlorotoluene	91	8.70	0.917	A	1	A	B
64	T	4-Chlorotoluene	91	8.81	0.929	A	1	A	B
65	T	tert-Butylbenzene	119	9.10	0.960	A	2	A	B
66	T	1,2,4-Trimethylbenzene	105	9.15	0.965	A	1	A	B
67	T	sec-Butylbenzene	105	9.31	0.982	A	1	A	B
68	T	p-Isopropyltoluene	119	9.46	0.998	A	2	A	B
69	T	1,3-Dichlorobenzene	146	9.42	0.993	A	2	A	B
70	T	1,4-Dichlorobenzene	146	9.50	1.002	A	2	A	B
71	T	1,2-Dichlorobenzene	146	9.86	1.040	A	2	A	B
72	T	1,2-Dibromo-3-chloropropane	75	10.63	1.121	A	2	A	B
73	T	1,2,4-Trichlorobenzene	180	11.44	1.206	A	2	A	B
74	T	Hexachlorobutadiene	225	11.61	1.225	A	2	A	B
75	T	Naphthalene	128	11.68	1.232	A	2	A	B
76	T	1,2,3-Trichlorobenzene	180	11.92	1.257	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

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VB121222ms11.M Thu Dec 15 12:13:03 2022

Method Path : D:\Methods\Inst11\  
 Method File : VB121222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Tue Dec 13 13:28:26 2022  
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.02	0	10	Y:\Proc_GCMS11\12-12-22\121228.D
2	0.04	0	10	Y:\Proc_GCMS11\12-12-22\121229.D
3	0.1	0	10	Y:\Proc_GCMS11\12-12-22\121230.D
4	0.2	0	10	Y:\Proc_GCMS11\12-12-22\121231.D
5	0.5	1	10	Y:\Proc_GCMS11\12-12-22\121232.D
6	1	1	10	Y:\Proc_GCMS11\12-12-22\121233.D
7	2	2	10	Y:\Proc_GCMS11\12-12-22\121234.D
8	5	5	10	Y:\Proc_GCMS11\12-12-22\121235.D
9	10	10	10	Y:\Proc_GCMS11\12-12-22\121236.D
10	20	20	10	Y:\Proc_GCMS11\12-12-22\121237.D
11	50	50	10	Y:\Proc_GCMS11\12-12-22\121238.D
12	100	100	10	Y:\Proc_GCMS11\12-12-22\121239.D
13	150	150	10	Y:\Proc_GCMS11\12-12-22\121240.D
14	200	200	10	Y:\Proc_GCMS11\12-12-22\121241.D

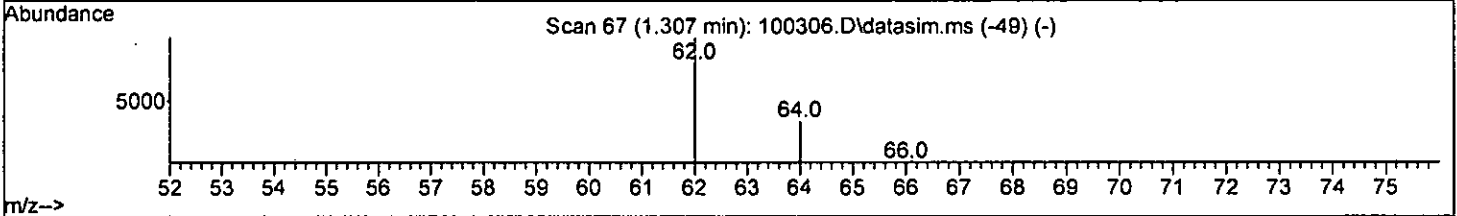
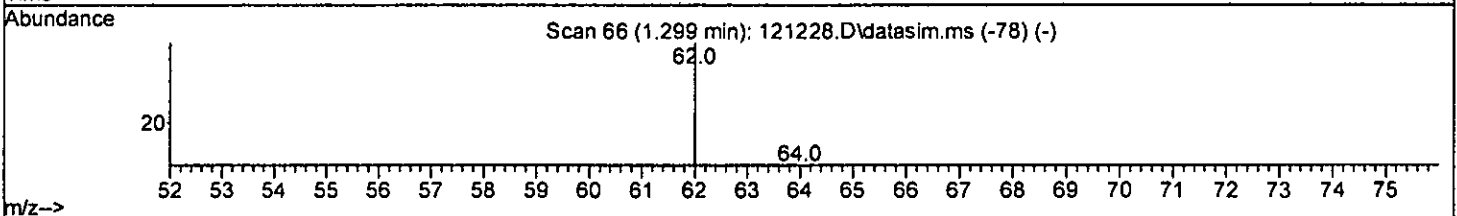
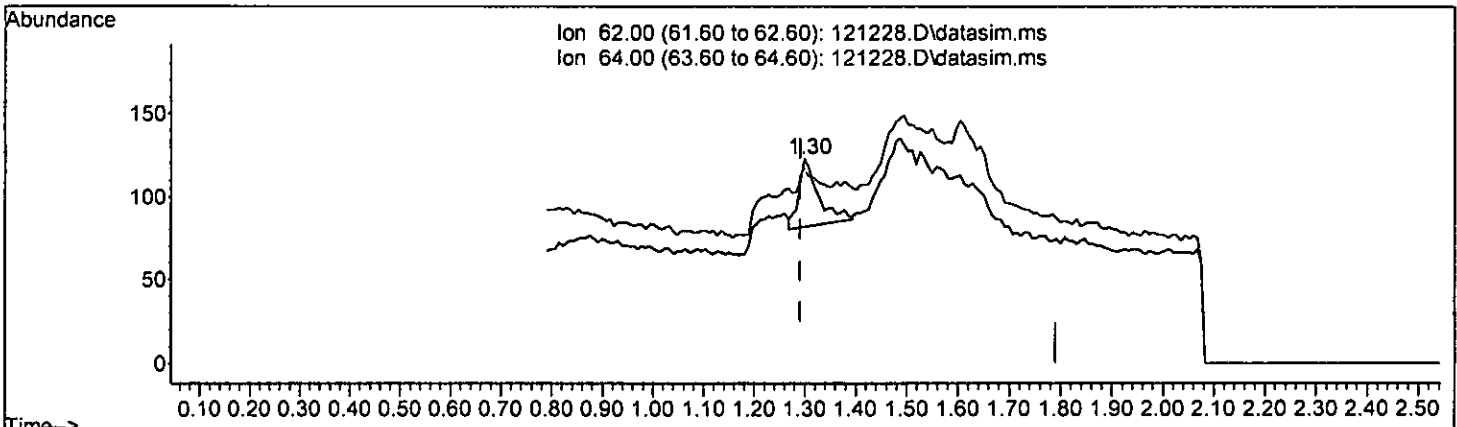
#	ID	Update Time	Quant Time	Acquisition Time
1	0.02	Dec 13 12:29 2022	Dec 13 12:25 2022	12 Dec 2022 10:36 pm
2	0.04	Dec 13 12:29 2022	Dec 13 12:25 2022	12 Dec 2022 10:59 pm
3	0.1	Dec 13 12:29 2022	Dec 13 12:27 2022	12 Dec 2022 11:21 pm
4	0.2	Dec 13 12:29 2022	Dec 13 12:28 2022	12 Dec 2022 11:44 pm
5	0.5	Dec 13 12:29 2022	Dec 13 12:28 2022	13 Dec 2022 12:06 am
6	1	Dec 13 12:29 2022	Dec 13 12:29 2022	13 Dec 2022 12:29 am
7	2	Dec 13 12:29 2022	Dec 13 12:29 2022	13 Dec 2022 12:51 am
8	5	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 01:14 am
9	10	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 01:36 am
10	20	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 01:58 am
11	50	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 02:21 am
12	100	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 02:43 am
13	150	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 03:06 am
14	200	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 03:28 am

VB121222ms11.M Thu Dec 15 12:13:09 2022

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121228.D\data.ms

(6) Vinyl chloride (TMP)

1.299min (+ 0.007) 0.031 ppb

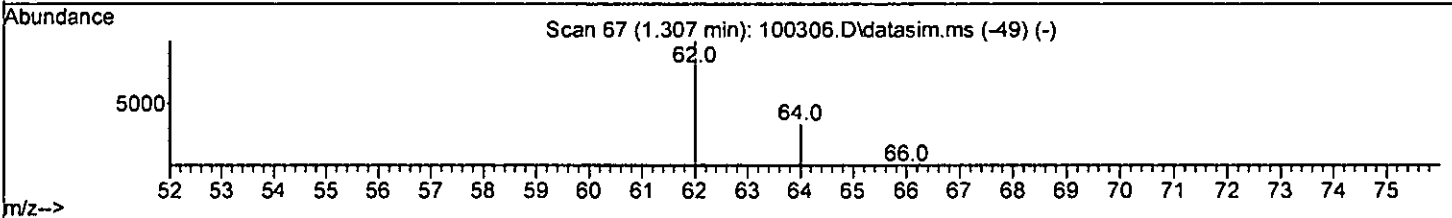
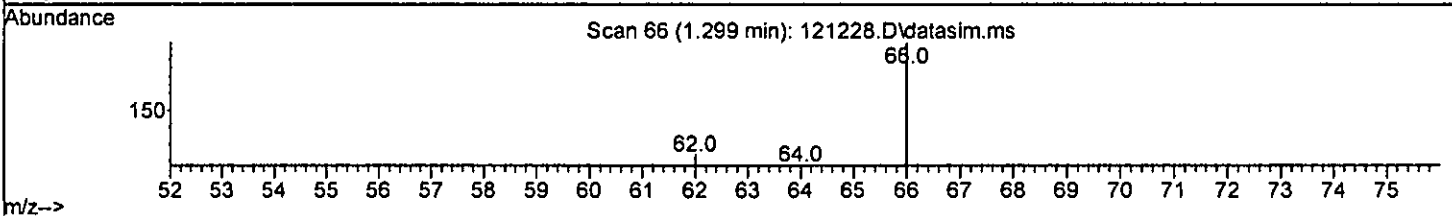
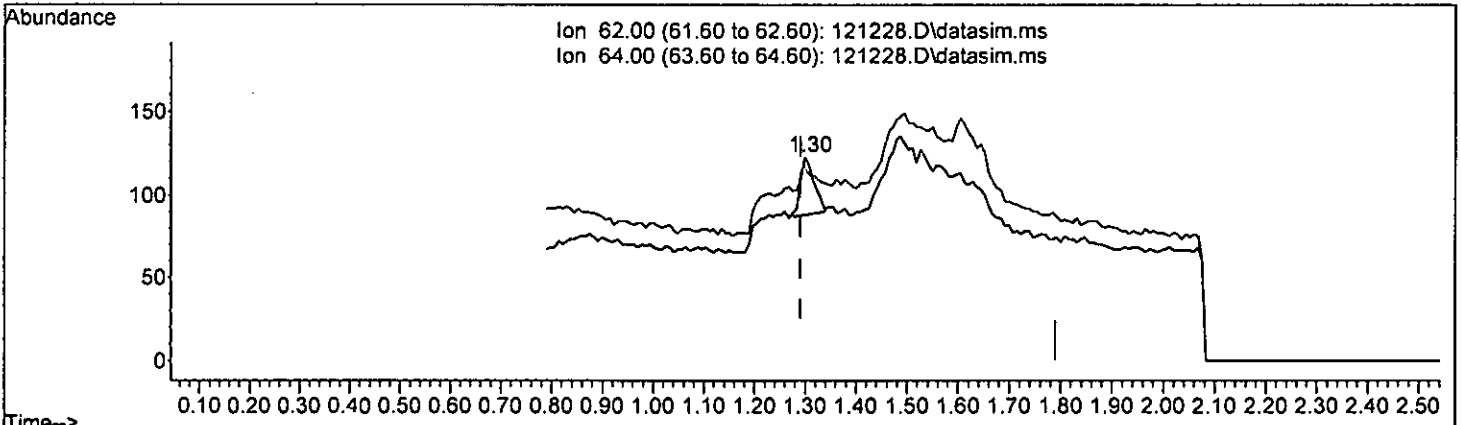
response	112		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	32.43	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121228.D\data.ms

(6) Vinyl chloride (TMP)

1.299min (+ 0.007) 0.018 ppb m

response	64		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	95.12#	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 JGM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	10.272	-2.7	100	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.08#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.22#
6 TMP	Vinyl chloride	0.020	0.018	10.0	69	0.00
7 TMP	Bromomethane	-1.000	0.070	0.0	0	0.02
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.79#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.26#
12 TMP	1,1-Dichloroethene	0.020	0.000	100.0#	0	-2.19#
13 TMP	Hexane	-1.000	0.047	0.0	0	0.00
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.73#
16 TMP	Methyl t-butyl ether (MTBE)	0.020	0.000	100.0#	0	-2.83#
17 TMP	trans-1,2-Dichloroethene	0.020	0.000	100.0#	0	-2.82#
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP	1,1-Dichloroethane	0.020	0.000	100.0#	0	-3.18#
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP	2,2-Dichloropropane	-1.000	0.034	0.0	0	0.07
22 TMP	cis-1,2-Dichloroethene	0.020	0.000	100.0#	0	-3.67#
23 TMP	Chloroform	-1.000	0.029	0.0	0	0.00
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.70#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.49#
26 TMP	1,2-Dichloroethane (EDC)	0.020	0.000	100.0#	0	-4.41#
27 TMP	1,1,1-Trichloroethane	0.020	0.000	100.0#	0	-4.08#
28 TMP	1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.22#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S	1,2-Dichloroethane-d4	10.000	9.205	7.9	100	0.00
31 TMP	Benzene	0.020	0.000	100.0#	0	-4.38#
32 TMP	Trichloroethene	0.020	0.000	100.0#	0	-4.93#
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.13#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S	Toluene-d8	10.000	10.061	-0.6	100	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.23#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	-1.000	0.000	0.0	0	-6.03#
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.25#
42 TMP 1,1,2-Trichloroethane	0.020	0.000	100.0#	0	-6.40#
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.020	0.000	100.0#	0	-6.51#
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	-1.000	0.000	0.0	0	-6.85#
48 TMP Chlorobenzene	-1.000	0.035	0.0	0	0.00
49 TMP Ethylbenzene	0.020	0.000	100.0#	0	-7.40#
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.040	0.000	100.0#	0	-7.51#
52 TMP o-Xylene	0.020	0.000	100.0#	0	-7.88#
53 TMP Styrene	-1.000	0.042	0.0	0	0.00
54 TMP Isopropylbenzene	-1.000	0.030	0.0	0	0.00
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.07#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.636	3.6	100	0.00
58 TMP n-Propylbenzene	-1.000	0.036	0.0	0	0.00
59 TMP Bromobenzene	-1.000	0.034	0.0	0	0.00
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.024	0.0	0	0.00
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.042	0.0	0	0.00
63 TMP 2-Chlorotoluene	-1.000	0.024	0.0	0	0.00
64 TMP 4-Chlorotoluene	-1.000	0.033	0.0	0	0.00
65 TMP tert-Butylbenzene	-1.000	0.015	0.0	0	0.00
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.042	0.0	0	0.00
67 TMP sec-Butylbenzene	-1.000	0.028	0.0	0	0.00
68 TMP p-Isopropyltoluene	-1.000	0.028	0.0	0	0.00
69 TMP 1,3-Dichlorobenzene	-1.000	0.033	0.0	0	0.00
70 TMP 1,4-Dichlorobenzene	-1.000	0.030	0.0	0	0.00
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-9.86#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.047	0.0	0	0.00
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.61#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.92#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.271	-2.7	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.000#	100.0#	0#	-1.08#
5 TMP	Chloromethane	0.883	0.000#	100.0#	0#	-1.22#
6 TMP	Vinyl chloride	0.732	0.652	10.9	69	0.00
7 TMP	Bromomethane	0.368	0.000#	100.0#	0#	0.02
8 TMP	Chloroethane	0.336	0.000#	100.0#	0#	-1.59#
9 TMP	Trichlorofluoromethane	0.870	0.000#	100.0#	0#	-1.79#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.000#	100.0#	0#	-2.26#
12 TMP	1,1-Dichloroethene	0.240	0.000#	100.0#	0#	-2.19#
13 TMP	Hexane	0.434	0.000#	100.0#	0#	0.00
14 TMP	Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP	t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.73#
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.000#	100.0#	0#	-2.83#
17 TMP	trans-1,2-Dichloroethene	0.272	0.000#	100.0#	0#	-2.82#
18 TMP	Diisopropyl ether (DIPE)	0.932	0.000#	100.0#	0#	-3.24#
19 TMP	1,1-Dichloroethane	0.504	0.000#	100.0#	0#	-3.18#
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.000#	100.0#	0#	-3.55#
21 TMP	2,2-Dichloropropane	0.316	0.000#	100.0#	0#	0.07
22 TMP	cis-1,2-Dichloroethene	0.286	0.000#	100.0#	0#	-3.67#
23 TMP	Chloroform	0.477	0.000#	100.0#	0#	0.00
24 TMP	2-Butanone (MEK)	0.183	0.000#	100.0#	0#	-3.70#
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.000#	100.0#	0#	-4.49#
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.000#	100.0#	0#	-4.41#
27 TMP	1,1,1-Trichloroethane	0.440	0.000#	100.0#	0#	-4.08#
28 TMP	1,1-Dichloropropene	0.362	0.000#	100.0#	0#	-4.22#
29 TMP	Carbon tetrachloride	0.367	0.000#	100.0#	0#	-4.21#
30 S	1,2-Dichloroethane-d4	0.060	0.056	6.7	100	0.00
31 TMP	Benzene	0.999	0.000#	100.0#	0#	-4.38#
32 TMP	Trichloroethene	0.316	0.000#	100.0#	0#	-4.93#
33 TMP	1,2-Dichloropropane	0.296	0.000#	100.0#	0#	-5.13#
34 TMP	Bromodichloromethane	0.357	0.000#	100.0#	0#	-5.37#
35 S	Toluene-d8	0.960	0.966	-0.6	100	0.00
36 TMP	Dibromomethane	0.169	0.000#	100.0#	0#	-5.23#
37 TMP	4-Methyl-2-pentanone	0.052	0.000#	100.0#	0#	-5.91#
38 TMP	cis-1,3-Dichloropropene	0.429	0.000#	100.0#	0#	-5.75#



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCM511\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.000#	100.0#	0#	-6.03#
41 TMP trans-1,3-Dichloropropene	0.484	0.000#	100.0#	0#	-6.25#
42 TMP 1,1,2-Trichloroethane	0.264	0.000#	100.0#	0#	-6.40#
43 TMP 2-Hexanone	0.335	0.000#	100.0#	0#	-6.64#
44 TMP 1,3-Dichloropropane	0.470	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.342	0.000#	100.0#	0#	-6.51#
46 TMP Dibromochloromethane	0.354	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.000#	100.0#	0#	-6.85#
48 TMP Chlorobenzene	0.925	0.000#	100.0#	0#	0.00
49 TMP Ethylbenzene	1.611	0.000#	100.0#	0#	-7.40#
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.607	0.000#	100.0#	0#	-7.51#
52 TMP o-Xylene	0.595	0.000#	100.0#	0#	-7.88#
53 TMP Styrene	0.973	0.000#	100.0#	0#	0.00
54 TMP Isopropylbenzene	1.564	0.000#	100.0#	0#	0.00
55 TMP Bromoform	0.252	0.000#	100.0#	0#	-8.07#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.814	3.6	100	0.00
58 TMP n-Propylbenzene	3.281	0.000#	100.0#	0#	0.00
59 TMP Bromobenzene	0.770	0.000#	100.0#	0#	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	0.000#	100.0#	0#	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.586	0.000#	100.0#	0#	0.00
63 TMP 2-Chlorotoluene	1.941	0.000#	100.0#	0#	0.00
64 TMP 4-Chlorotoluene	2.281	0.000#	100.0#	0#	0.00
65 TMP tert-Butylbenzene	2.141	0.000#	100.0#	0#	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	0.000#	100.0#	0#	0.00
67 TMP sec-Butylbenzene	3.103	0.000#	100.0#	0#	0.00
68 TMP p-Isopropyltoluene	2.672	0.000#	100.0#	0#	0.00
69 TMP 1,3-Dichlorobenzene	1.434	0.000#	100.0#	0#	0.00
70 TMP 1,4-Dichlorobenzene	1.461	0.000#	100.0#	0#	0.00
71 TMP 1,2-Dichlorobenzene	1.380	0.000#	100.0#	0#	-9.86#
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.000#	100.0#	0#	0.00
74 TMP Hexachlorobutadiene	0.542	0.000#	100.0#	0#	-11.61#
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.000#	100.0#	0#	-11.92#

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	49049	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	38410	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	21826	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	13293	10.272	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	102.70%	
30) 1,2-Dichloroethane-d4	4.36	102	2724	9.205	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery	=	92.10%	
35) Toluene-d8	5.98	98	47379	10.061	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery	=	100.60%	
57) 4-Bromofluorobenzene	8.38	95	17756	9.636	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery	=	96.40%	
<b>Target Compounds</b>						
						Qvalue
2) Ethanol	0.00		0			N.D.
4) Dichlorodifluoromethane	0.00		0			N.D.
5) Chloromethane	0.00		0			N.D.
6] Vinyl chloride	1.30	62	64m	0.018	ppb	
7) Bromomethane	1.56	94	127			N.D.
8) Chloroethane	0.00		0			N.D.
9) Trichlorofluoromethane	0.00		0			N.D.
10) 2-Propanol	2.40	45	215			No Calib
11) Acetone	0.00		0			N.D.
12) 1,1-Dichloroethene	0.00		0			N.D.
13) Hexane	3.05	57	99			N.D.
14) Methylene chloride	0.00		0			N.D. d
15) t-Butyl alcohol (TBA)	0.00		0			N.D.
16) Methyl t-butyl ether (...)	0.00		0			N.D. d
17) trans-1,2-Dichloroethene	0.00		0			N.D.
18) Diisopropyl ether (DIPE)	0.00		0			N.D.
19) 1,1-Dichloroethane	0.00		0			N.D. d
20) Ethyl t-butyl ether (E...)	0.00		0			N.D.
21) 2,2-Dichloropropane	3.73	77	52			N.D.
22) cis-1,2-Dichloroethene	0.00		0			N.D.
23) Chloroform	3.94	83	68			N.D.
24) 2-Butanone (MEK)	0.00		0			N.D. d
25) t-Amyl methyl ether (T...)	0.00		0			N.D.
26) 1,2-Dichloroethane (EDC)	0.00		0			N.D. d
27) 1,1,1-Trichloroethane	0.00		0			N.D.
28) 1,1-Dichloropropene	0.00		0			N.D.
29) Carbon tetrachloride	0.00		0			N.D.

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

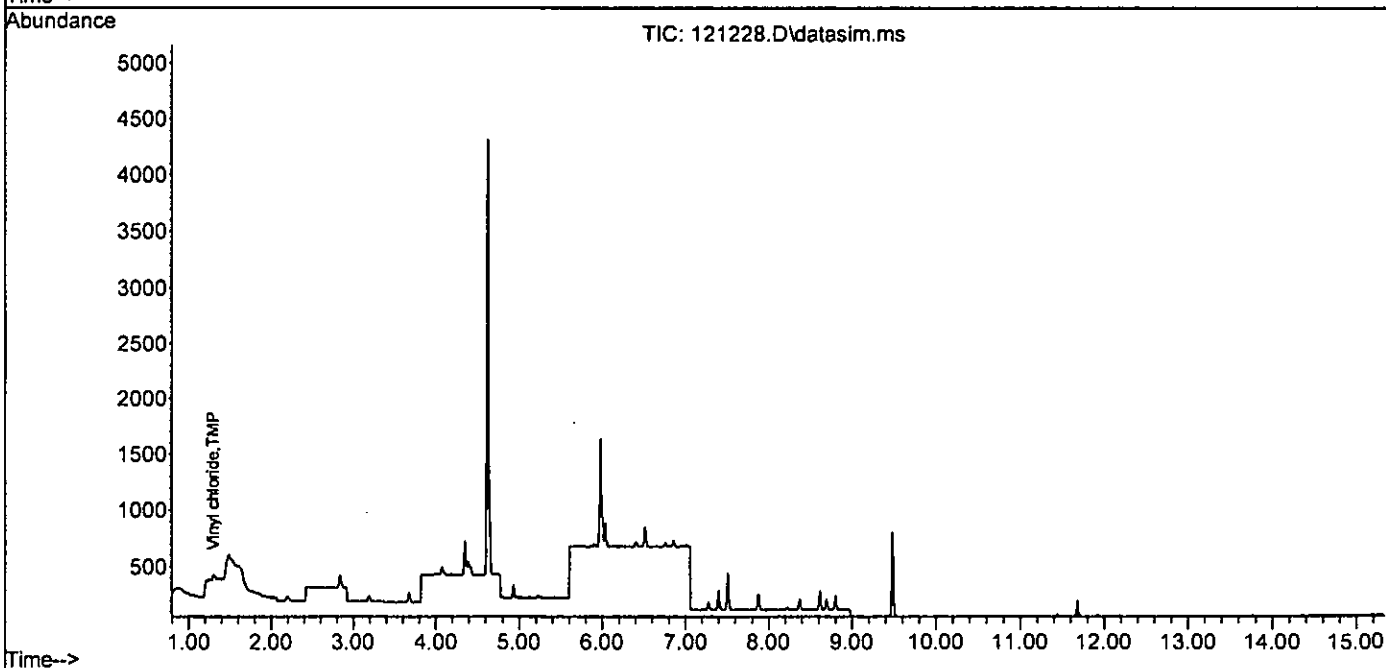
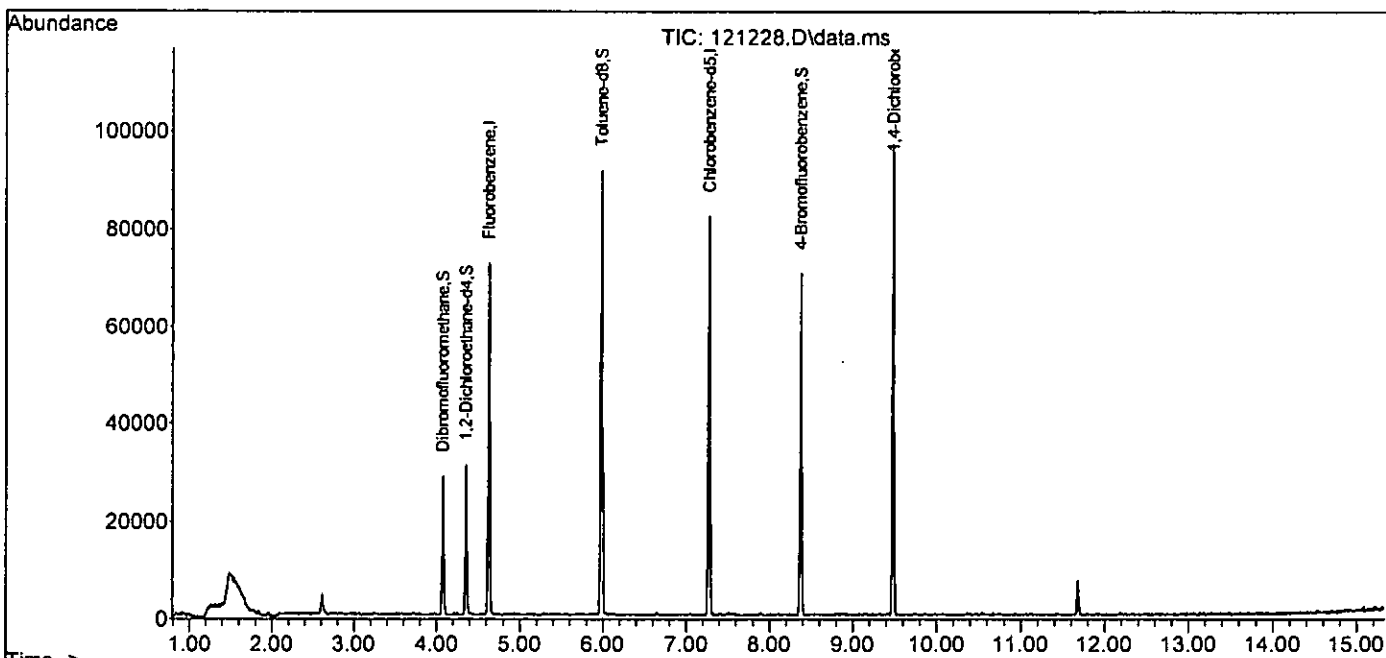
Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzene	0.00		0	N.D.	d	
32) Trichloroethene	0.00		0	N.D.		
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	0.00		0	N.D.		
40) Toluene	0.00		0	N.D.	d	
41) trans-1,3-Dichloropropene	0.00		0	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.		
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.		
45) Tetrachloroethene	0.00		0	N.D.	d	
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.		
48) Chlorobenzene	7.29	112	123	N.D.		
49) Ethylbenzene	0.00		0	N.D.	d	
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51) m,p-Xylene	0.00		0	N.D.	d	
52) o-Xylene	0.00		0	N.D.	d	
53) Styrene	7.90	104	157	N.D.		
54) Isopropylbenzene	8.23	105	181	N.D.		
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	8.62	91	259	N.D.		
59) Bromobenzene	8.52	156	58	N.D.		
60) 1,3,5-Trimethylbenzene	8.80	105	129	N.D.		
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	8.57	75	54	N.D.		
63) 2-Chlorotoluene	8.69	91	101	N.D.		
64) 4-Chlorotoluene	8.81	91	164	N.D.		
65) tert-Butylbenzene	9.11	119	69	N.D.		
66) 1,2,4-Trimethylbenzene	9.15	105	225	N.D.		
67) sec-Butylbenzene	9.32	105	193	N.D.		
68) p-Isopropyltoluene	9.46	119	165	N.D.		
69) 1,3-Dichlorobenzene	9.41	146	103	N.D.		
70) 1,4-Dichlorobenzene	9.50	146	96	N.D.		
71) 1,2-Dichlorobenzene	0.00		0	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	11.44	180	100	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121228.D  
Acq On : 12 Dec 2022 10:36 pm  
Operator : LM  
Sample : 0.02 ppb 8260 ICAL 68-25F  
Misc : soil/water  
ALS Vial : 6 Sample Multiplier: 1  
InstName : GCMS11

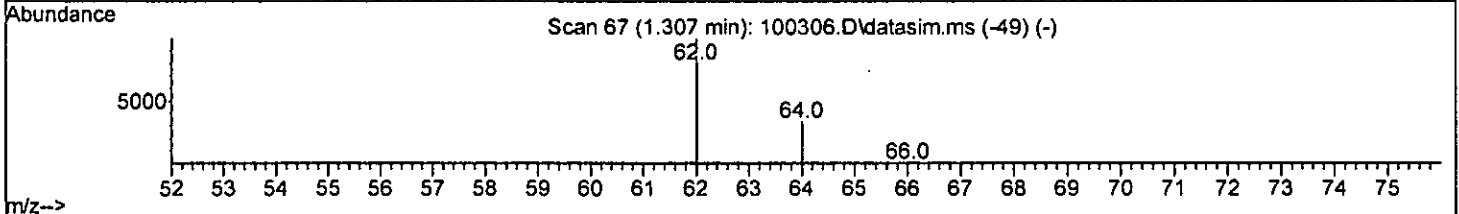
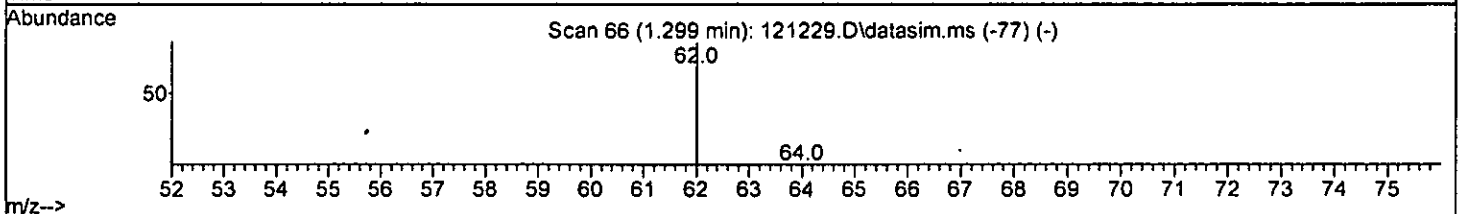
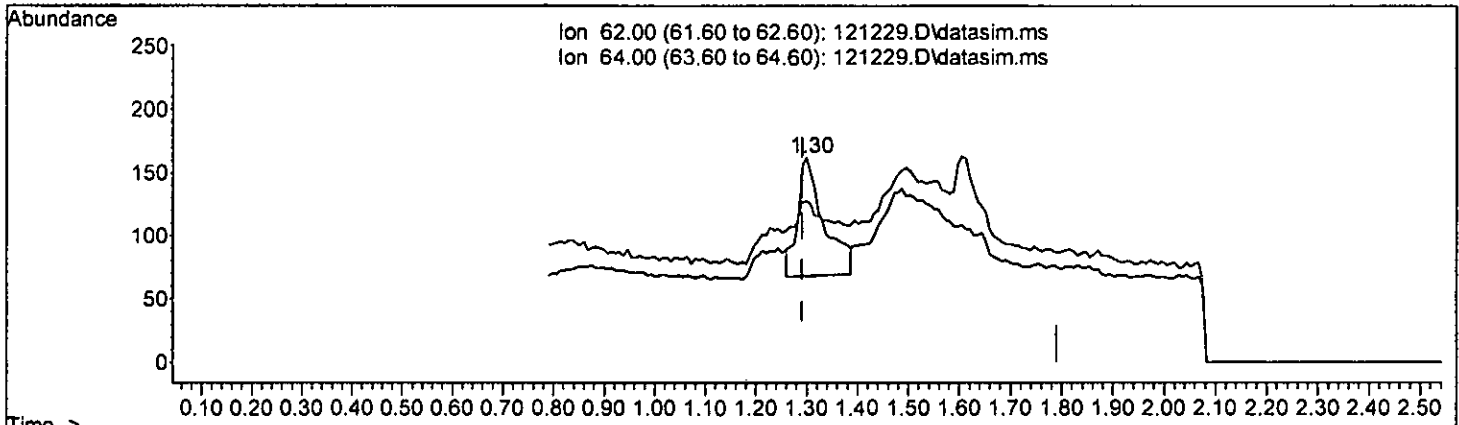
Quant Time: Dec 15 11:21:34 2022  
Quant Method : D:\Methods\Inst11\VB121222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Tue Dec 13 13:28:26 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121229.D\data.ms

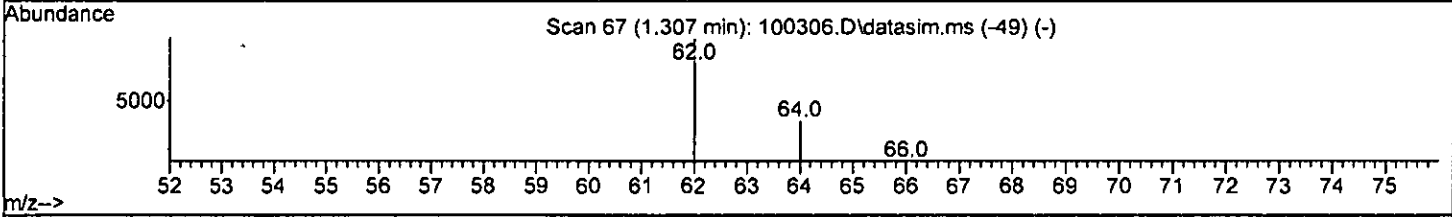
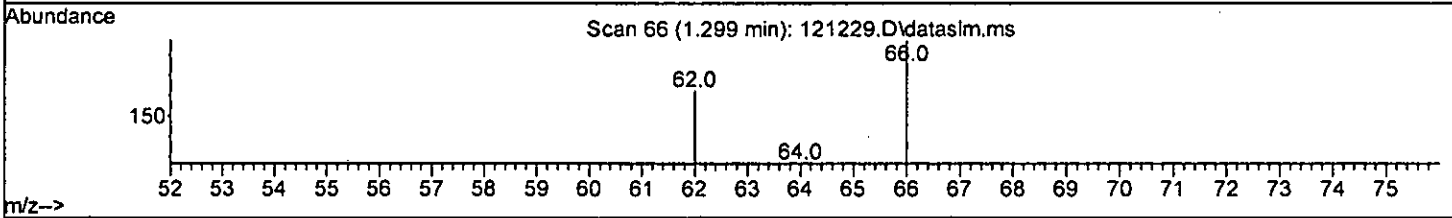
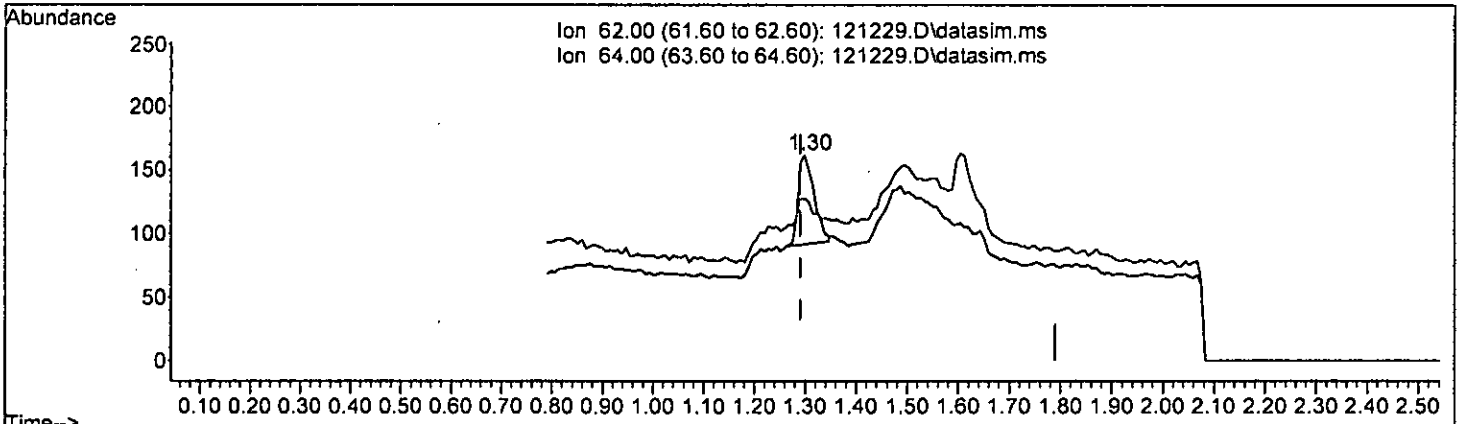
(6) Vinyl chloride (TMP)			
1.299min (+ 0.007)		0.095 ppb	
response	335		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	31.51	
0.00	0.00	0.00	
0.00	0.00	0.00	

*M/S DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121229.D\data.ms

(6) Vinyl chloride (TMP)			
1.299min (+ 0.007) 0.042 ppb m			
response	150		
Ion	Exp%	Act%	
62.00	100.00	100.00	<i>12/15 LM</i>
64.00	28.80	78.40#	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.03
3 S Dibromofluoromethane	10.000	10.659	-6.6	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.037	0.0	0	0.00
5 TMP Chloromethane	-1.000	0.158	0.0	0	0.02
6 TMP Vinyl chloride	0.040	0.042	-5.0	102	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP Trichlorofluoromethane	-1.000	0.041	0.0	0	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	-1.000	0.000	0.0	0	-2.26#
12 TMP 1,1-Dichloroethene	0.040	0.000	100.0#	0	-2.19#
13 TMP Hexane	-1.000	0.073	0.0	0	0.02
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.040	0.000	100.0#	0	-2.83#
17 TMP trans-1,2-Dichloroethene	0.040	0.000	100.0#	0	-2.82#
18 TMP Diisopropyl ether (DIPE)	-1.000	0.046	0.0	0	0.00
19 TMP 1,1-Dichloroethane	0.040	0.000	100.0#	0	-3.18#
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.66#
22 TMP cis-1,2-Dichloroethene	0.040	0.000	100.0#	0	-3.67#
23 TMP Chloroform	-1.000	0.081	0.0	0	0.00
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.70#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.040	0.0	0	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.040	0.000	100.0#	0	-4.41#
27 TMP 1,1,1-Trichloroethane	0.040	0.000	100.0#	0	-4.08#
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.22#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S 1,2-Dichloroethane-d4	10.000	10.305	-3.0	100	0.00
31 TMP Benzene	0.040	0.000	100.0#	0	-4.38#
32 TMP Trichloroethene	0.040	0.000	100.0#	0	-4.93#
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.13#
34 TMP Bromodichloromethane	-1.000	0.082	0.0	0	0.00
35 S Toluene-d8	10.000	10.150	-1.5	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.23#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP cis-1,3-Dichloropropene	-1.000	0.075	0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.040	0.000	100.0#	0	-6.03#
41 TMP trans-1,3-Dichloropropene	-1.000	0.053	0.0	0	0.01
42 TMP 1,1,2-Trichloroethane	0.040	0.071	-77.5#	0	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.040	0.000	100.0#	0	-6.51#
46 TMP Dibromochloromethane	-1.000	0.084	0.0	0	0.01
47 TMP 1,2-Dibromoethane (EDB)	-1.000	0.000	0.0	0	-6.85#
48 TMP Chlorobenzene	-1.000	0.074	0.0	0	0.00
49 TMP Ethylbenzene	0.040	0.000	100.0#	0	-7.40#
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.080	0.000	100.0#	0	-7.51#
52 TMP o-Xylene	0.040	0.000	100.0#	0	-7.88#
53 TMP Styrene	-1.000	0.000	0.0	0	-7.90#
54 TMP Isopropylbenzene	-1.000	0.093	0.0	0	0.00
55 TMP Bromoform	-1.000	0.057	0.0	0	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.043	-0.4	100	0.00
58 TMP n-Propylbenzene	-1.000	0.085	0.0	0	0.00
59 TMP Bromobenzene	-1.000	0.059	0.0	0	0.00
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.076	0.0	0	0.00
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.053	0.0	0	0.00
63 TMP 2-Chlorotoluene	-1.000	0.088	0.0	0	0.00
64 TMP 4-Chlorotoluene	-1.000	0.080	0.0	0	0.00
65 TMP tert-Butylbenzene	-1.000	0.064	0.0	0	0.00
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.093	0.0	0	0.00
67 TMP sec-Butylbenzene	-1.000	0.078	0.0	0	0.00
68 TMP p-Isopropyltoluene	-1.000	0.078	0.0	0	0.00
69 TMP 1,3-Dichlorobenzene	-1.000	0.091	0.0	0	0.08
70 TMP 1,4-Dichlorobenzene	-1.000	0.089	0.0	0	0.00
71 TMP 1,2-Dichlorobenzene	-1.000	0.088	0.0	0	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.088	0.0	0	0.00
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.61#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.084	0.0	0	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.03
3 S Dibromofluoromethane	0.264	0.281	-6.4	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.000#	100.0#	0#	0.00
5 TMP Chloromethane	0.883	0.000#	100.0#	0#	0.02
6 TMP Vinyl chloride	0.732	0.777	-6.1	102	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP Chloroethane	0.336	0.000#	100.0#	0#	-1.59#
9 TMP Trichlorofluoromethane	0.870	0.000#	100.0#	0#	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.000#	100.0#	0#	-2.26#
12 TMP 1,1-Dichloroethene	0.240	0.000#	100.0#	0#	-2.19#
13 TMP Hexane	0.434	0.000#	100.0#	0#	0.02
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.000#	100.0#	0#	-2.83#
17 TMP trans-1,2-Dichloroethene	0.272	0.000#	100.0#	0#	-2.82#
18 TMP Diisopropyl ether (DIPE)	0.932	0.000#	100.0#	0#	0.00
19 TMP 1,1-Dichloroethane	0.504	0.000#	100.0#	0#	-3.18#
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.000#	100.0#	0#	-3.55#
21 TMP 2,2-Dichloropropane	0.316	0.000#	100.0#	0#	-3.66#
22 TMP cis-1,2-Dichloroethene	0.286	0.000#	100.0#	0#	-3.67#
23 TMP Chloroform	0.477	0.000#	100.0#	0#	0.00
24 TMP 2-Butanone (MEK)	0.183	0.000#	100.0#	0#	-3.70#
25 TMP t-Amyl methyl ether (TAME)	0.694	0.000#	100.0#	0#	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.000#	100.0#	0#	-4.41#
27 TMP 1,1,1-Trichloroethane	0.440	0.000#	100.0#	0#	-4.08#
28 TMP 1,1-Dichloropropene	0.362	0.000#	100.0#	0#	-4.22#
29 TMP Carbon tetrachloride	0.367	0.000#	100.0#	0#	-4.21#
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.999	0.000#	100.0#	0#	-4.38#
32 TMP Trichloroethene	0.316	0.000#	100.0#	0#	-4.93#
33 TMP 1,2-Dichloropropane	0.296	0.000#	100.0#	0#	-5.13#
34 TMP Bromodichloromethane	0.357	0.000#	100.0#	0#	0.00
35 S Toluene-d8	0.960	0.975	-1.6	100	0.00
36 TMP Dibromomethane	0.169	0.000#	100.0#	0#	-5.23#
37 TMP 4-Methyl-2-pentanone	0.052	0.000#	100.0#	0#	-5.91#
38 TMP cis-1,3-Dichloropropene	0.429	0.000#	100.0#	0#	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.000#	100.0#	0#	-6.03#
41 TMP trans-1,3-Dichloropropene	0.484	0.000#	100.0#	0#	0.01
42 TMP 1,1,2-Trichloroethane	0.264	0.466	-76.5#	0#	0.00
43 TMP 2-Hexanone	0.335	0.000#	100.0#	0#	-6.64#
44 TMP 1,3-Dichloropropane	0.470	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.342	0.000#	100.0#	0#	-6.51#
46 TMP Dibromochloromethane	0.354	0.000#	100.0#	0#	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.000#	100.0#	0#	-6.85#
48 TMP Chlorobenzene	0.925	0.000#	100.0#	0#	0.00
49 TMP Ethylbenzene	1.611	0.000#	100.0#	0#	-7.40#
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.607	0.000#	100.0#	0#	-7.51#
52 TMP o-Xylene	0.595	0.000#	100.0#	0#	-7.88#
53 TMP Styrene	0.973	0.000#	100.0#	0#	-7.90#
54 TMP Isopropylbenzene	1.564	0.000#	100.0#	0#	0.00
55 TMP Bromoform	0.252	0.000#	100.0#	0#	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.848	-0.5	100	0.00
58 TMP n-Propylbenzene	3.281	0.000#	100.0#	0#	0.00
59 TMP Bromobenzene	0.770	0.000#	100.0#	0#	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	0.000#	100.0#	0#	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.586	0.000#	100.0#	0#	0.00
63 TMP 2-Chlorotoluene	1.941	0.000#	100.0#	0#	0.00
64 TMP 4-Chlorotoluene	2.281	0.000#	100.0#	0#	0.00
65 TMP tert-Butylbenzene	2.141	0.000#	100.0#	0#	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	0.000#	100.0#	0#	0.00
67 TMP sec-Butylbenzene	3.103	0.000#	100.0#	0#	0.00
68 TMP p-Isopropyltoluene	2.672	0.000#	100.0#	0#	0.00
69 TMP 1,3-Dichlorobenzene	1.434	0.000#	100.0#	0#	0.08
70 TMP 1,4-Dichlorobenzene	1.461	0.000#	100.0#	0#	0.00
71 TMP 1,2-Dichlorobenzene	1.380	0.000#	100.0#	0#	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.000#	100.0#	0#	0.00
74 TMP Hexachlorobutadiene	0.542	0.000#	100.0#	0#	-11.61#
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.000#	100.0#	0#	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	48253	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38658	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21365	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	13570	10.659	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	106.60%	
30) 1,2-Dichloroethane-d4	4.36	102	3000	10.305	ppb	0.00	
Spiked Amount	10.000	Range	79 - 128	Recovery	=	103.10%	
35) Toluene-d8	5.98	98	47024	10.150	ppb	0.00	
Spiked Amount	10.000	Range	84 - 121	Recovery	=	101.50%	
57) 4-Bromofluorobenzene	8.38	95	18115	10.043	ppb	0.00	
Spiked Amount	10.000	Range	84 - 116	Recovery	=	100.40%	
<b>Target Compounds</b>							
2) Ethanol	1.89	45	109	No Calib			Qvalue
4) Dichlorodifluoromethane	1.09	85	122	N.D.			
5) Chloromethane	1.23	50	674	N.D.			
6) Vinyl chloride	1.30	62	150m	0.042	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	1.79	101	172	N.D.			
10) 2-Propanol	2.40	45	256	No Calib			
11) Acetone	0.00		0	N.D.			
12) 1,1-Dichloroethene	0.00		0	N.D.	d		
13) Hexane	3.06	57	153	N.D.			
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.	d		
17) trans-1,2-Dichloroethene	0.00		0	N.D.	d		
18) Diisopropyl ether (DIPE)	3.25	45	209	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.	d		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22) cis-1,2-Dichloroethene	0.00		0	N.D.	d		
23) Chloroform	3.95	83	187	N.D.			
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.50	73	133	N.D.			
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d		
27) 1,1,1-Trichloroethane	0.00		0	N.D.	d		
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

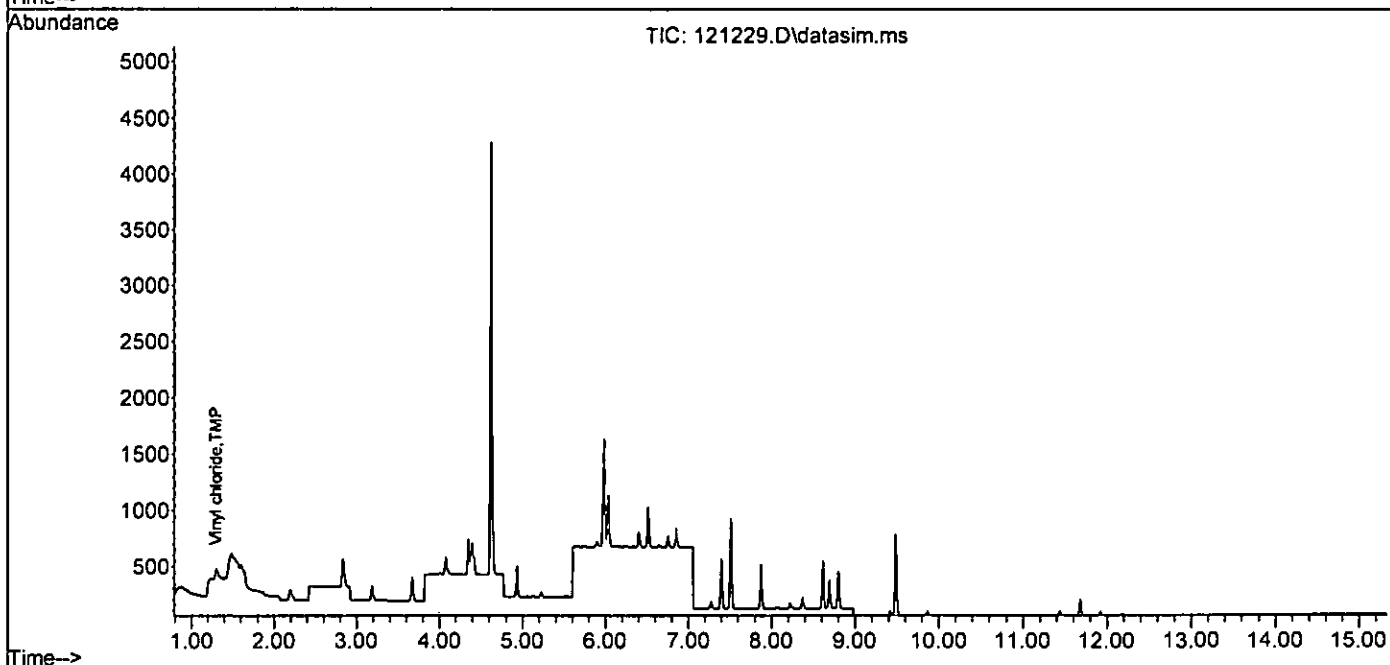
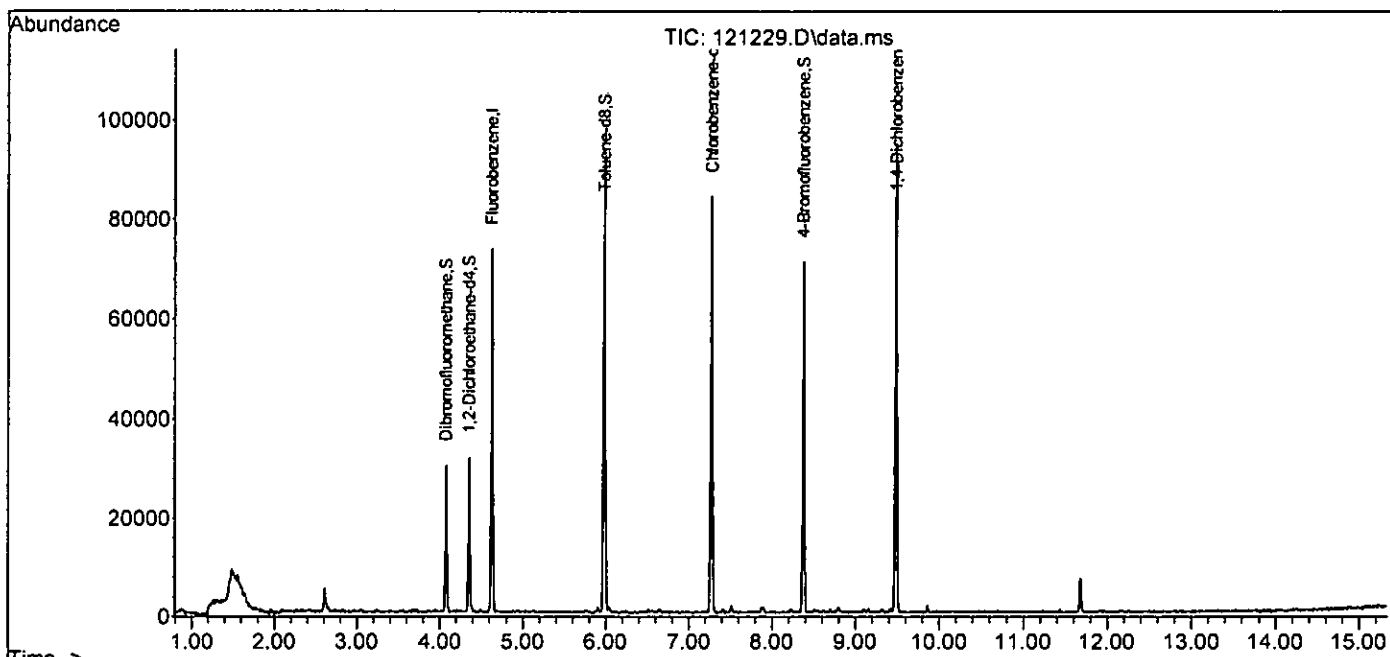
Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzene	0.00		0	N.D.	d	
32) Trichloroethene	0.00		0	N.D.	d	
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	5.37	83	141	N.D.		
36) Dibromomethane	0.00		0	N.D.		
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	5.75	75	155	N.D.		
40) Toluene	0.00		0	N.D.	d	
41) trans-1,3-Dichloropropene	6.26	75	99	N.D.		
42) 1,1,2-Trichloroethane	6.40	83	72	N.D.		
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45) Tetrachloroethene	0.00		0	N.D.	d	
46) Dibromochloromethane	6.76	129	115	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	d	
48) Chlorobenzene	7.29	112	263	N.D.		
49) Ethylbenzene	0.00		0	N.D.	d	
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51) m,p-Xylene	0.00		0	N.D.	d	
52) o-Xylene	0.00		0	N.D.	d	
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	8.23	105	561	N.D.		
55) Bromoform	8.07	173	56	N.D.		
58) n-Propylbenzene	8.62	91	594	N.D.		
59) Bromobenzene	8.52	156	97	N.D.		
60) 1,3,5-Trimethylbenzene	8.80	105	399	N.D.		
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	8.58	75	66	N.D.		
63) 2-Chlorotoluene	8.70	91	365	N.D.		
64) 4-Chlorotoluene	8.81	91	389	N.D.		
65) tert-Butylbenzene	9.10	119	295	N.D.		
66) 1,2,4-Trimethylbenzene	9.15	105	492	N.D.		
67) sec-Butylbenzene	9.32	105	519	N.D.		
68) p-Isopropyltoluene	9.46	119	448	N.D.		
69) 1,3-Dichlorobenzene	9.50	146	278	N.D.		
70) 1,4-Dichlorobenzene	9.50	146	278	N.D.		
71) 1,2-Dichlorobenzene	9.87	146	258	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	11.44	180	184	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	11.91	180	162	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121229.D  
Acq On : 12 Dec 2022 10:59 pm  
Operator : LM  
Sample : 0.04 ppb 8260 ICAL 68-25G  
Misc : soil/water  
ALS Vial : 7 Sample Multiplier: 1  
InstName : GCMS11

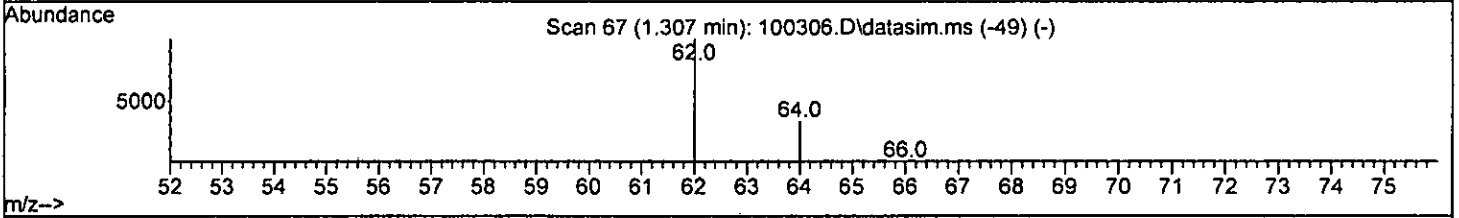
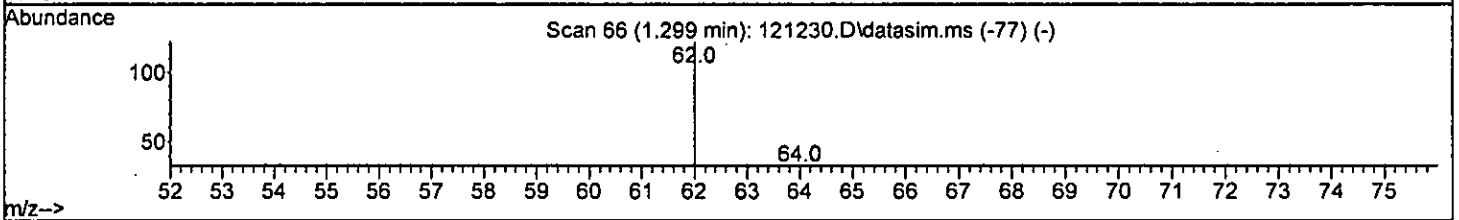
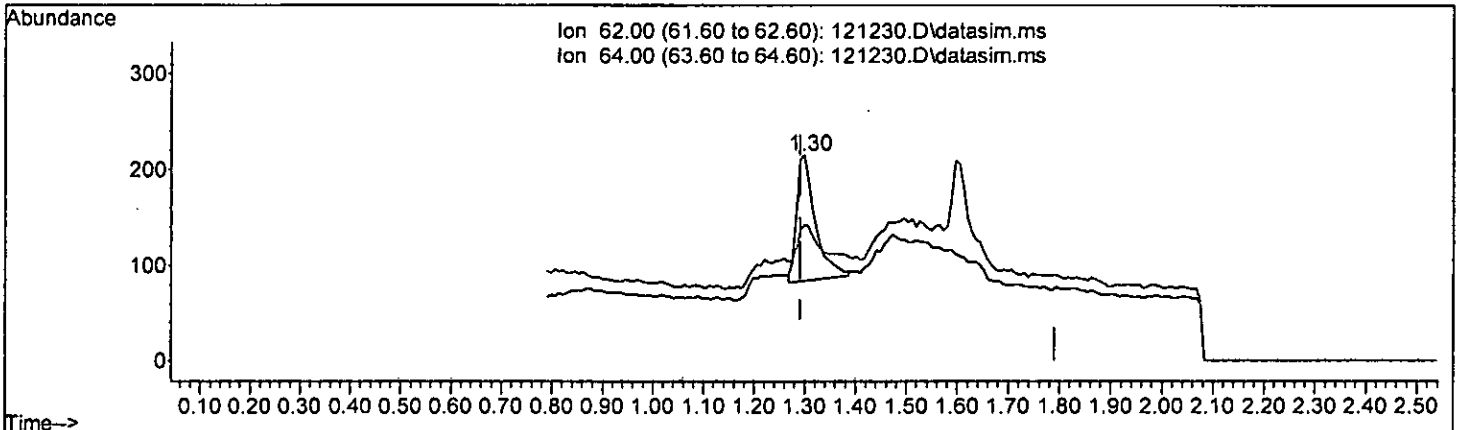
Quant Time: Dec 15 11:21:37 2022  
Quant Method : D:\Methods\Inst11\VB121222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Tue Dec 13 13:28:26 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(6) Vinyl chloride (TMP)  
 1.299min (+ 0.007) 0.091 ppb

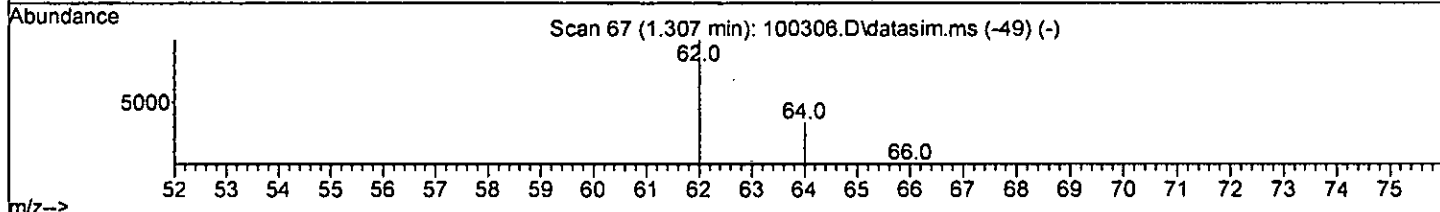
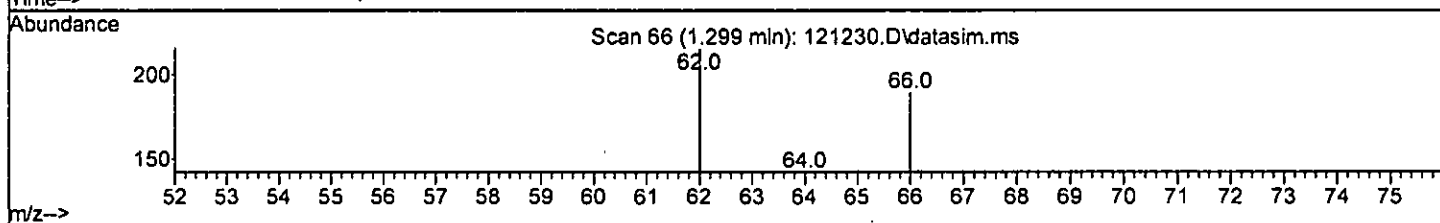
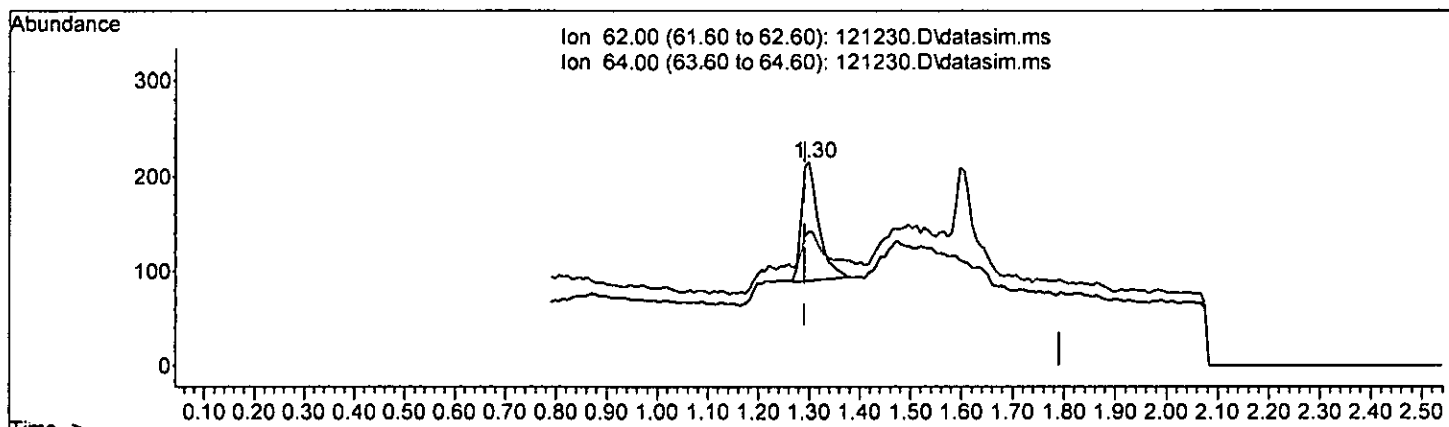
response	331
Ion	Expt Act%
62.00	100.00 100.00
64.00	28.80 30.16
0.00	0.00 0.00
0.00	0.00 0.00

*LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

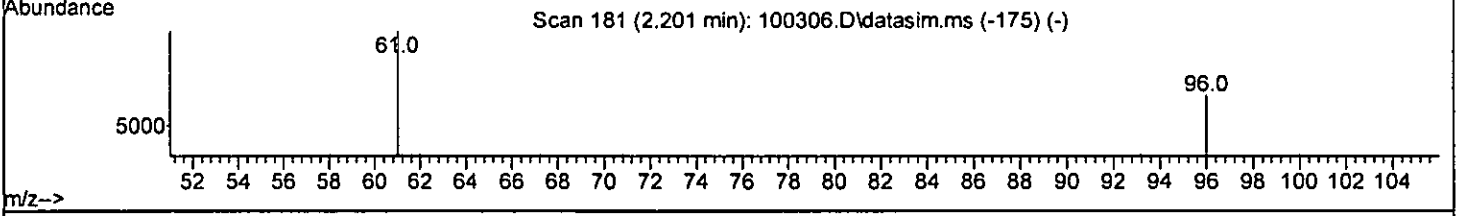
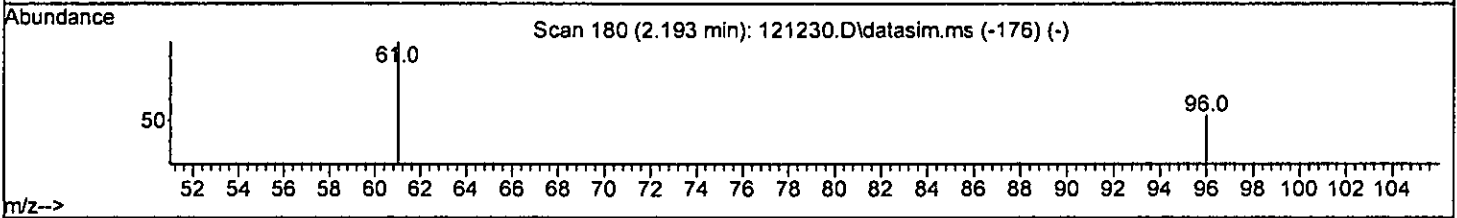
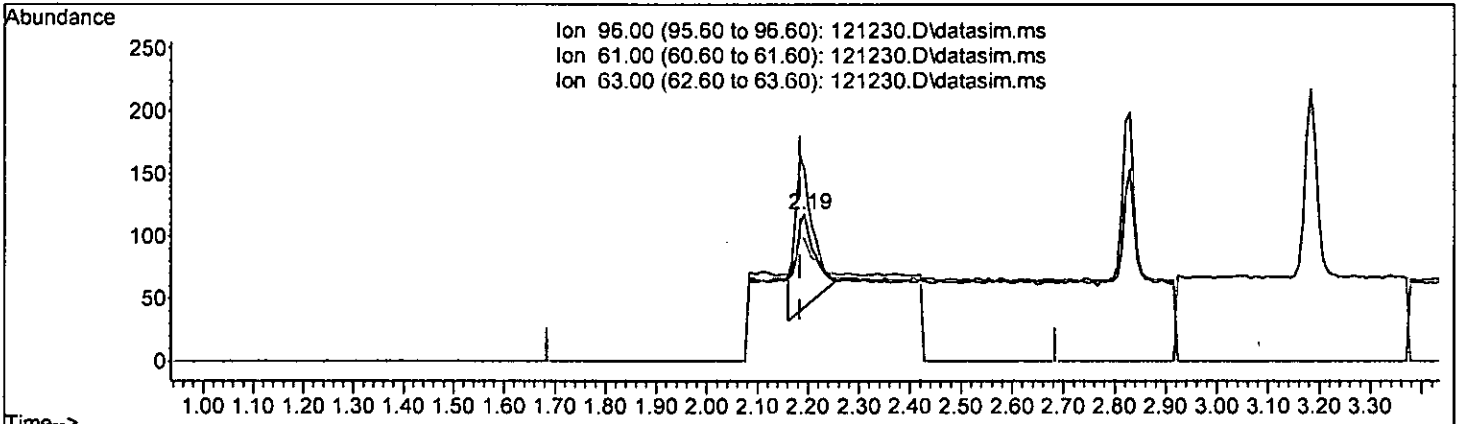
(6) Vinyl chloride (TMP)			
1.299min (+ 0.007) 0.081 ppb m			
response	294		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	66.05#	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(12) 1,1-Dichloroethane (TMP)  
 2.193min (+ 0.008) 0.166 ppb

response	199		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	160.00	162.96	
63.00	53.70	53.70	
0.00	0.00	0.00	

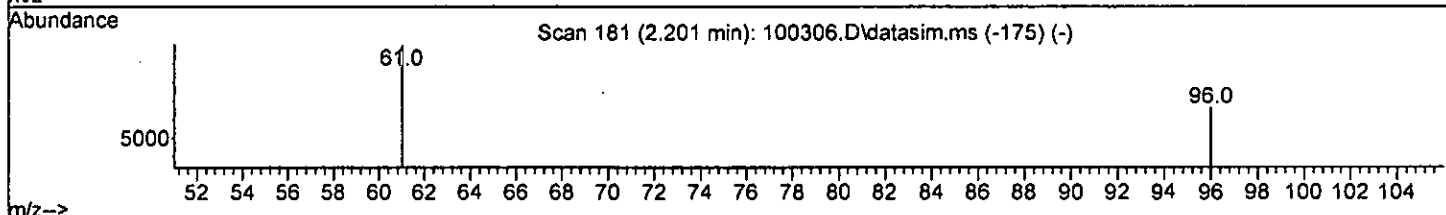
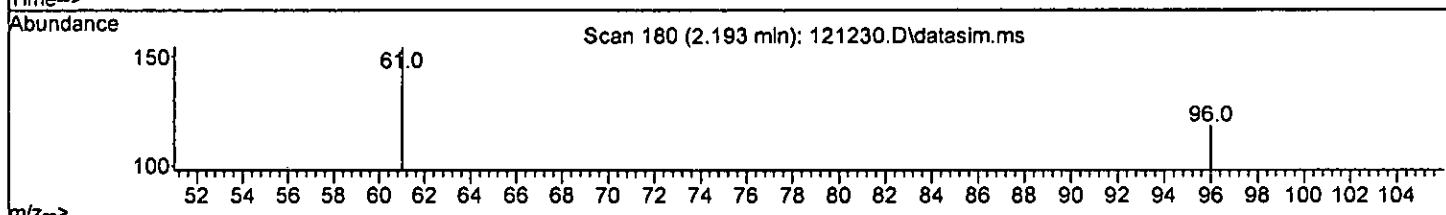
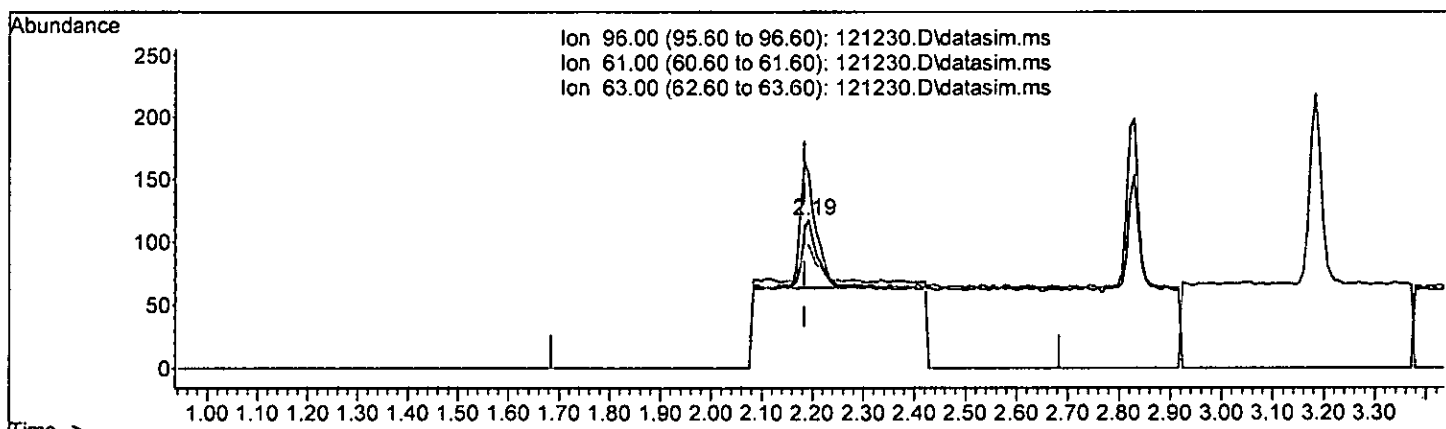
*Handwritten note: 12/15 DM*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.193min (+ 0.008) 0.090 ppb m

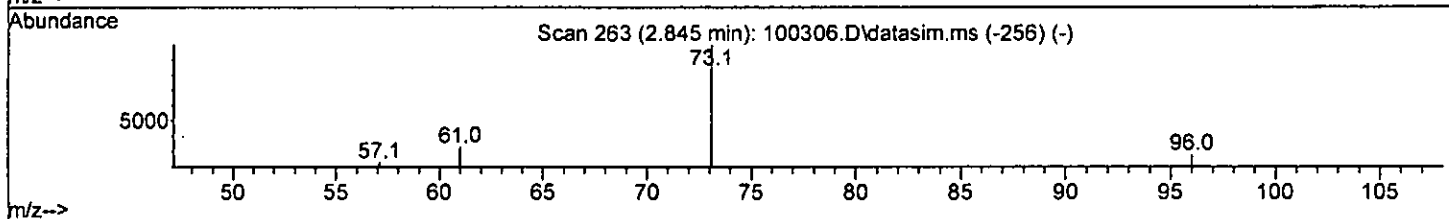
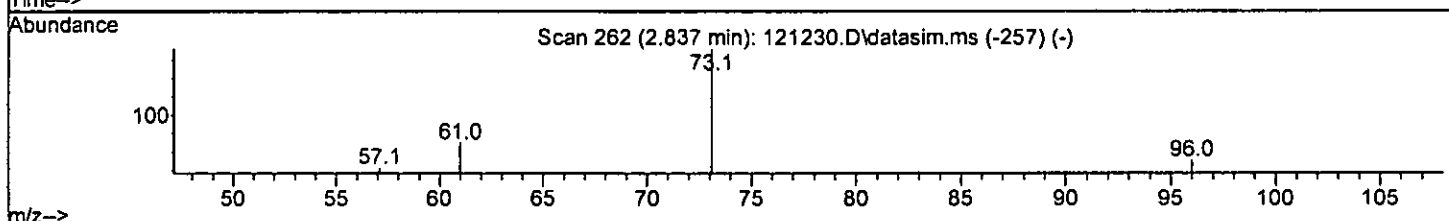
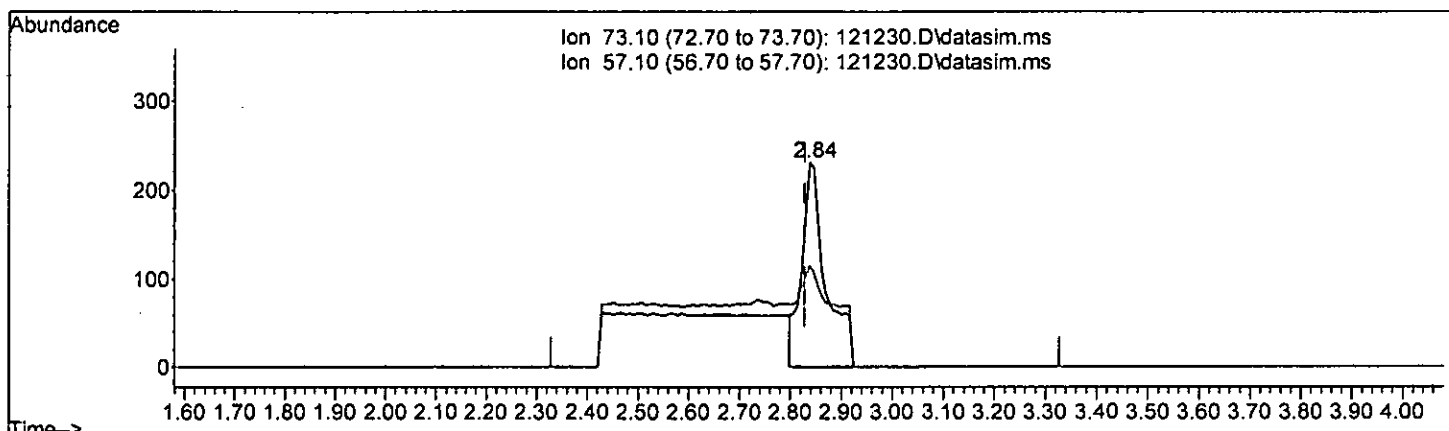
response	108		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	160.00	130.51	
63.00	53.70	83.05	
0.00	0.00	0.00	

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)  
 2.837min (+ 0.008) 0.207 ppb

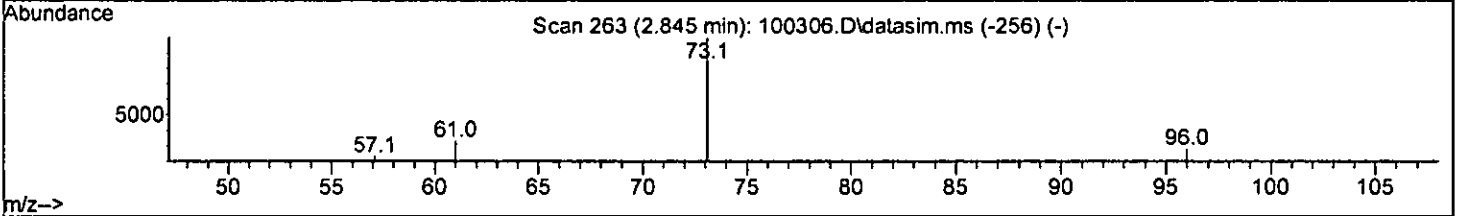
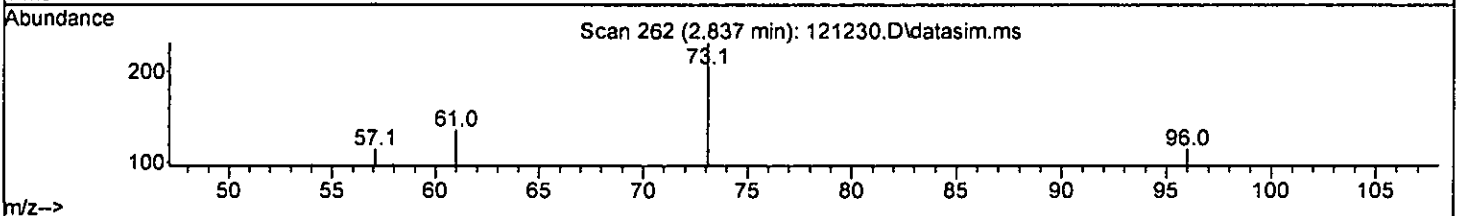
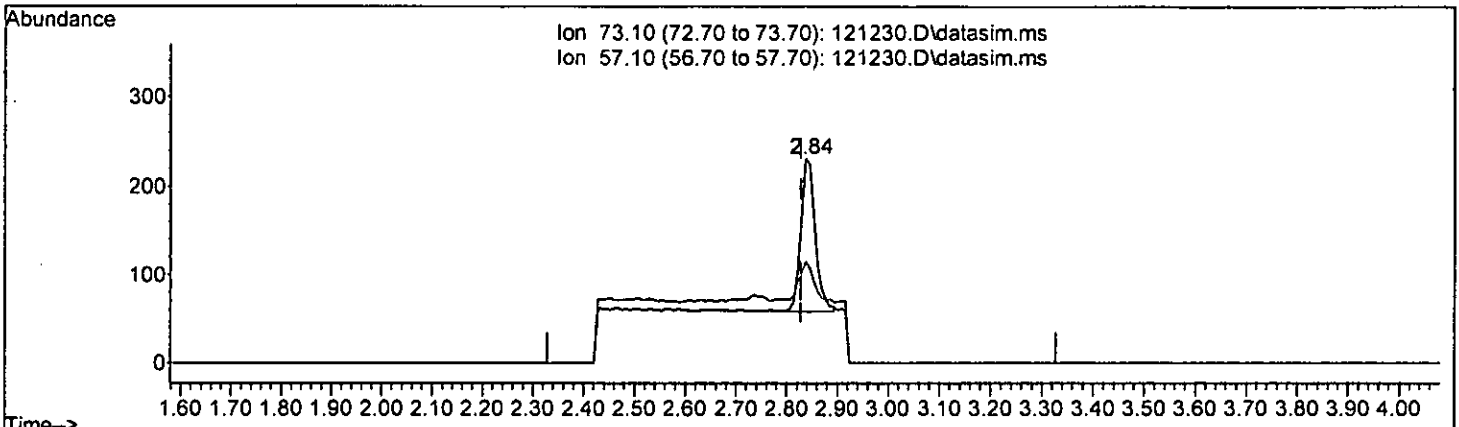
response	756		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	24.80	49.35	
0.00	0.00	0.00	
0.00	0.00	0.00	

12/15 DM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)  
 2.837min (+ 0.008) 0.094 ppb m

response	342		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	24.80	49.35	
0.00	0.00	0.00	
0.00	0.00	0.00	

12/15 LM

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.653	3.5	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.102	0.0	0	0.02
5 TMP Chloromethane	-1.000	0.209	0.0	0	0.00
6 TMP Vinyl chloride	0.100	0.081	19.0	94	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP Trichlorofluoromethane	-1.000	0.057	0.0	0	-0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	-1.000	0.394	0.0	0	0.00
12 TMP 1,1-Dichloroethene	0.100	0.090	10.0	93	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.05#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.100	0.094	6.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.100	0.094	6.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.087	0.0	0	0.02
19 TMP 1,1-Dichloroethane	0.100	0.096	4.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP 2,2-Dichloropropane	-1.000	0.077	0.0	0	-0.02
22 TMP cis-1,2-Dichloroethene	0.100	0.102	-2.0	100	0.00
23 TMP Chloroform	-1.000	0.097	0.0	0	0.00
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.70#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.49#
26 TMP 1,2-Dichloroethane (EDC)	0.100	0.110	-10.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.100	0.093	7.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.095	0.0	0	0.00
29 TMP Carbon tetrachloride	-1.000	0.065	0.0	0	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.186	-1.9	100	0.00
31 TMP Benzene	0.100	0.099	1.0	100	0.00
32 TMP Trichloroethene	0.100	0.099	1.0	100	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.096	0.0	0	0.00
34 TMP Bromodichloromethane	-1.000	0.086	0.0	0	0.00
35 S Toluene-d8	10.000	10.256	-2.6	100	0.00
36 TMP Dibromomethane	-1.000	0.085	0.0	0	0.00
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.100	0.114	-14.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	-1.000	0.058	0.0	0	0.01
42 TMP	1,1,2-Trichloroethane	0.100	0.102	-2.0	100	0.00
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.64#
44 TMP	1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP	Tetrachloroethene	0.100	0.117	-17.0	100	0.00
46 TMP	Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP	1,2-Dibromoethane (EDB)	0.100	0.104	-4.0	100	0.00
48 TMP	Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP	Ethylbenzene	0.100	0.104	-4.0	100	0.00
50 TMP	1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP	m,p-Xylene	0.200	0.212	-6.0	100	0.00
52 TMP	o-Xylene	0.100	0.100	0.0	100	0.00
53 TMP	Styrene	-1.000	0.000	0.0	0	-7.90#
54 TMP	Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP	Bromoform	-1.000	0.000	0.0	0	-8.07#
56 I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S	4-Bromofluorobenzene	10.000	9.732	2.7	100	0.00
58 TMP	n-Propylbenzene	-1.000	0.000	0.0	0	-8.63#
59 TMP	Bromobenzene	-1.000	0.000	0.0	0	-8.51#
60 TMP	1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP	1,1,2,2-Tetrachloroethane	-1.000	0.066	0.0	0	0.00
62 TMP	1,2,3-Trichloropropane	-1.000	0.095	0.0	0	0.00
63 TMP	2-Chlorotoluene	-1.000	0.000	0.0	0	-8.70#
64 TMP	4-Chlorotoluene	-1.000	0.000	0.0	0	-8.81#
65 TMP	tert-Butylbenzene	-1.000	0.000	0.0	0	-9.10#
66 TMP	1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP	sec-Butylbenzene	-1.000	0.095	0.0	0	0.00
68 TMP	p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP	1,3-Dichlorobenzene	-1.000	0.093	0.0	0	0.00
70 TMP	1,4-Dichlorobenzene	-1.000	0.099	0.0	0	0.00
71 TMP	1,2-Dichlorobenzene	-1.000	0.094	0.0	0	0.00
72 TMP	1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP	1,2,4-Trichlorobenzene	-1.000	0.093	0.0	0	0.00
74 TMP	Hexachlorobutadiene	-1.000	0.082	0.0	0	0.00
75 TMP	Naphthalene	0.100	0.000	100.0#	0	-11.68#
76 TMP	1,2,3-Trichlorobenzene	-1.000	0.124	0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Oibromofluoromethane	0.264	0.255	3.4	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.000#	100.0#	0#	0.02
5 TMP	Chloromethane	0.883	0.000#	100.0#	0#	0.00
6 TMP	Vinyl chloride	0.732	0.591	19.3	94	0.00
7 TMP	Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP	Chloroethane	0.336	0.000#	100.0#	0#	-1.59#
9 TMP	Trichlorofluoromethane	0.870	0.000#	100.0#	0#	-0.02
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.000#	100.0#	0#	0.00
12 TMP	1,1-Dichloroethene	0.240	0.217	9.6	93	0.00
13 TMP	Hexane	0.434	0.000#	100.0#	0#	-3.05#
14 TMP	Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP	t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.73#
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.688	6.1	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.255	6.3	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.000#	100.0#	0#	0.02
19 TMP	1,1-Dichloroethane	0.504	0.487	3.4	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.000#	100.0#	0#	-3.55#
21 TMP	2,2-Dichloropropane	0.316	0.000#	100.0#	0#	-0.02
22 TMP	cis-1,2-Dichloroethene	0.286	0.292	-2.1	100	0.00
23 TMP	Chloroform	0.477	0.000#	100.0#	0#	0.00
24 TMP	2-Butanone (MEK)	0.183	0.000#	100.0#	0#	-3.70#
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.000#	100.0#	0#	-4.49#
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.454	-9.9	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.410	6.8	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.000#	100.0#	0#	0.00
29 TMP	Carbon tetrachloride	0.367	0.000#	100.0#	0#	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	0.999	0.991	0.8	100	0.00
32 TMP	Trichloroethene	0.316	0.312	1.3	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.000#	100.0#	0#	0.00
34 TMP	Bromodichloromethane	0.357	0.000#	100.0#	0#	0.00
35 S	Toluene-d8	0.960	0.985	-2.6	100	0.00
36 TMP	Dibromomethane	0.169	0.000#	100.0#	0#	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.000#	100.0#	0#	-5.91#
38 TMP	cis-1,3-Dichloropropene	0.429	0.000#	100.0#	0#	-5.75#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.975	-13.6	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.000#	100.0#	0#	0.01
42 TMP 1,1,2-Trichloroethane	0.264	0.269	-1.9	100	0.00
43 TMP 2-Hexanone	0.335	0.000#	100.0#	0#	-6.64#
44 TMP 1,3-Dichloropropane	0.470	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.342	0.399	-16.7	100	0.00
46 TMP Dibromochloromethane	0.354	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.340	-4.0	100	0.00
48 TMP Chlorobenzene	0.925	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.611	1.669	-3.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.607	0.642	-5.8	100	0.00
52 TMP o-Xylene	0.595	0.596	-0.2	100	0.00
53 TMP Styrene	0.973	0.000#	100.0#	0#	-7.90#
54 TMP Isopropylbenzene	1.564	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.252	0.000#	100.0#	0#	-8.07#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.822	2.6	100	0.00
58 TMP n-Propylbenzene	3.281	0.000#	100.0#	0#	-8.63#
59 TMP Bromobenzene	0.770	0.000#	100.0#	0#	-8.51#
60 TMP 1,3,5-Trimethylbenzene	2.443	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.000#	100.0#	0#	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.000#	100.0#	0#	0.00
63 TMP 2-Chlorotoluene	1.941	0.000#	100.0#	0#	-8.70#
64 TMP 4-Chlorotoluene	2.281	0.000#	100.0#	0#	-8.81#
65 TMP tert-Butylbenzene	2.141	0.000#	100.0#	0#	-9.10#
66 TMP 1,2,4-Trimethylbenzene	2.476	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	3.103	0.000#	100.0#	0#	0.00
68 TMP p-Isopropyltoluene	2.672	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.434	0.000#	100.0#	0#	0.00
70 TMP 1,4-Dichlorobenzene	1.461	0.000#	100.0#	0#	0.00
71 TMP 1,2-Dichlorobenzene	1.380	0.000#	100.0#	0#	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.000#	100.0#	0#	0.00
74 TMP Hexachlorobutadiene	0.542	0.000#	100.0#	0#	0.00
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.000#	100.0#	0#	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	49730	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	39074	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21750	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	12666	9.653	ppb	0.00	
Spiked Amount	10.000		Range	50 - 150		Recovery = 96.50%	
30) 1,2-Dichloroethane-d4	4.36	102	3056	10.186	ppb	0.00	
Spiked Amount	10.000		Range	79 - 128		Recovery = 101.90%	
35) Toluene-d8	5.98	98	48969	10.256	ppb	0.00	
Spiked Amount	10.000		Range	84 - 121		Recovery = 102.60%	
57) 4-Bromofluorobenzene	8.38	95	17871	9.732	ppb	0.00	
Spiked Amount	10.000		Range	84 - 116		Recovery = 97.30%	
<b>Target Compounds</b>							
2) Ethanol	0.00		0		N.D.		Qvalue
4) Dichlorodifluoromethane	1.10	85	349		N.D.		
5) Chloromethane	1.22	50	919		N.D.		
6] Vinyl chloride	1.30	62	294m	0.081	ppb		
7) Bromomethane	0.00		0		N.D. d		
8) Chloroethane	0.00		0		N.D. d		
9) Trichlorofluoromethane	1.77	101	246		N.D.		
10) 2-Propanol	2.40	45	376		No Calib		
11) Acetone	2.27	58	73		N.D.		
12] 1,1-Dichloroethene	2.19	96	108m	0.090	ppb		
13) Hexane	0.00		0		N.D. d		
14) Methylene chloride	0.00		0		N.D. d		
15) t-Butyl alcohol (TBA)	0.00		0		N.D. d		
16] Methyl t-butyl ether (...)	2.84	73	342m	0.094	ppb		
17] trans-1,2-Dichloroethene	2.83	96	127	0.094	ppb		87
18) Diisopropyl ether (DIPE)	3.26	45	401		N.D.		
19] 1,1-Dichloroethane	3.18	63	242	0.096	ppb		97
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.		
21) 2,2-Dichloropropane	3.64	77	121		N.D.		
22] cis-1,2-Dichloroethene	3.67	96	145	0.102	ppb		91
23) Chloroform	3.95	83	229		N.D.		
24) 2-Butanone (MEK)	0.00		0		N.D. d		
25) t-Amyl methyl ether (T...)	0.00		0		N.D. d		
26] 1,2-Dichloroethane (EDC)	4.41	62	226	0.110	ppb		95
27] 1,1,1-Trichloroethane	4.08	97	204	0.093	ppb		94
28) 1,1-Dichloropropene	4.22	75	172		N.D.		
29) Carbon tetrachloride	4.21	117	119		N.D.		



Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-2SH  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31] Benzene	4.39	78	493	0.099	ppb	91
32] Trichloroethene	4.93	95	155	0.099	ppb	96
33] 1,2-Dichloropropane	5.13	63	142	N.D.		
34] Bromodichloromethane	5.37	83	153	N.D.		
36] Dibromomethane	5.23	93	71	N.D.		
37] 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38] cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.03	92	381	0.114	ppb	93
41] trans-1,3-Dichloropropene	6.26	75	110	N.D.		
42] 1,1,2-Trichloroethane	6.40	83	105	0.102	ppb	95
43] 2-Hexanone	0.00		0	N.D.	d	
44] 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.51	164	156	0.117	ppb	92
46] Dibromochloromethane	0.00		0	N.D.		
47] 1,2-Dibromoethane (EDB)	6.85	107	133	0.104	ppb	100
48] Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.40	91	652	0.104	ppb	99
50] 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.52	106	502	0.212	ppb	99
52] o-Xylene	7.88	106	233	0.100	ppb	96
53] Styrene	0.00		0	N.D.	d	
54] Isopropylbenzene	0.00		0	N.D.	d	
55] Bromoform	0.00		0	N.D.		
58] n-Propylbenzene	0.00		0	N.D.	d	
59] Bromobenzene	0.00		0	N.D.	d	
60] 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61] 1,1,2,2-Tetrachloroethane	8.54	83	100	N.D.		
62] 1,2,3-Trichloropropane	8.57	75	121	N.D.		
63] 2-Chlorotoluene	0.00		0	N.D.	d	
64] 4-Chlorotoluene	0.00		0	N.D.	d	
65] tert-Butylbenzene	0.00		0	N.D.	d	
66] 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67] sec-Butylbenzene	9.31	105	644	N.D.		
68] p-Isopropyltoluene	0.00		0	N.D.	d	
69] 1,3-Dichlorobenzene	9.41	146	290	N.D.		
70] 1,4-Dichlorobenzene	9.50	146	313	N.D.		
71] 1,2-Dichlorobenzene	9.86	146	281	N.D.		
72] 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73] 1,2,4-Trichlorobenzene	11.44	180	199	N.D.		
74] Hexachlorobutadiene	11.61	225	97	N.D.		
75] Naphthalene	0.00		0	N.D.	d	
76] 1,2,3-Trichlorobenzene	11.93	180	243	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121230.D  
Acq On : 12 Dec 2022 11:21 pm  
Operator : LM  
Sample : 0.1 ppb 8260 ICAL 68-25H  
Misc : soil/water  
ALS Vial : 8 Sample Multiplier: 1  
InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
Quant Method : D:\Methods\Inst11\VB121222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Tue Dec 13 13:28:26 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M'

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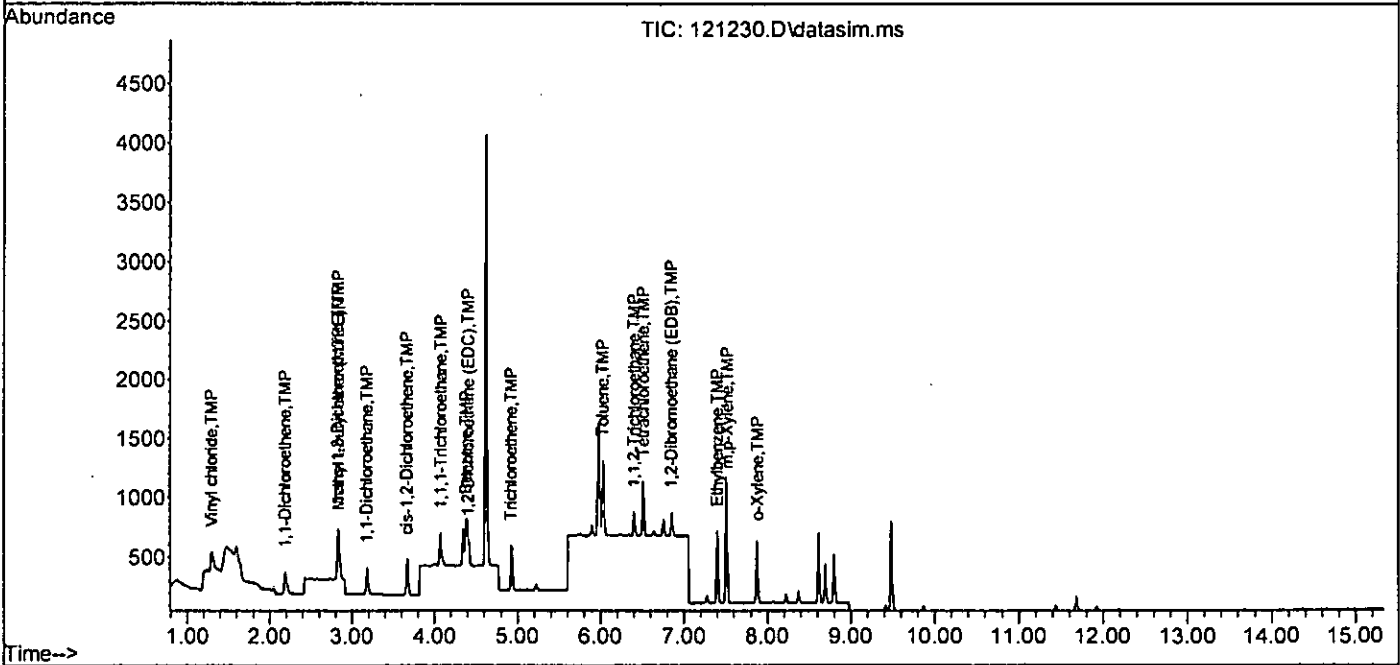
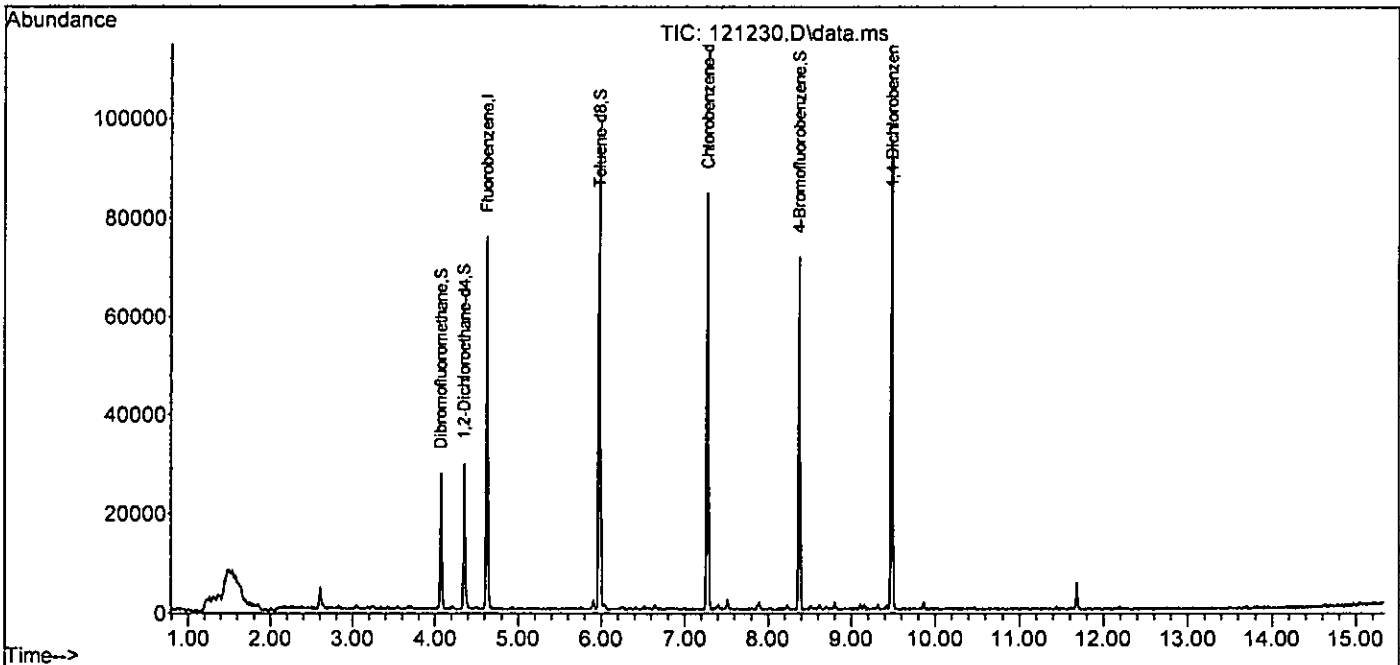
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

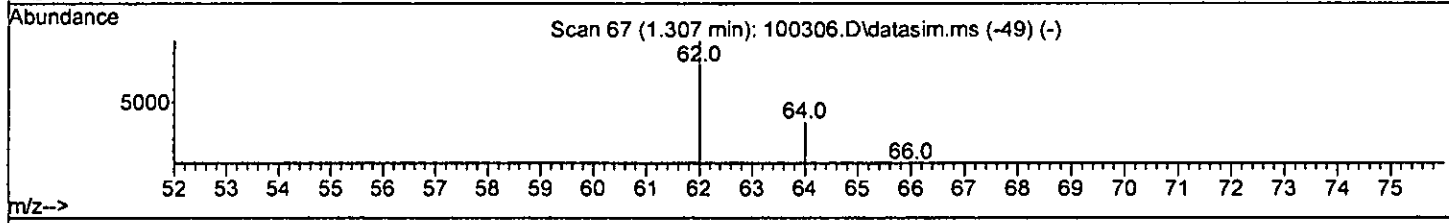
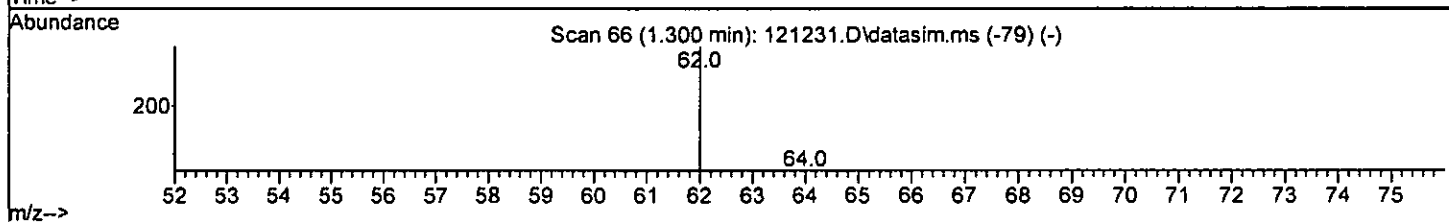
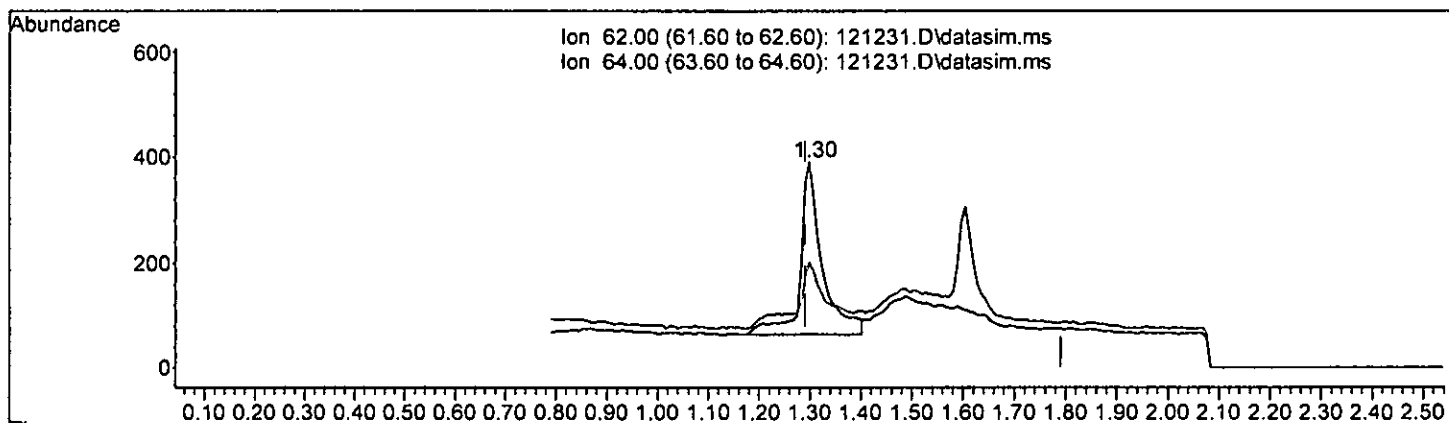
Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121231.D\data.ms

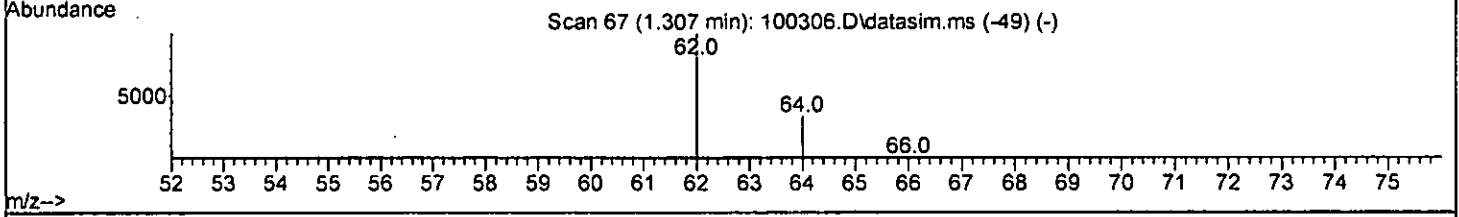
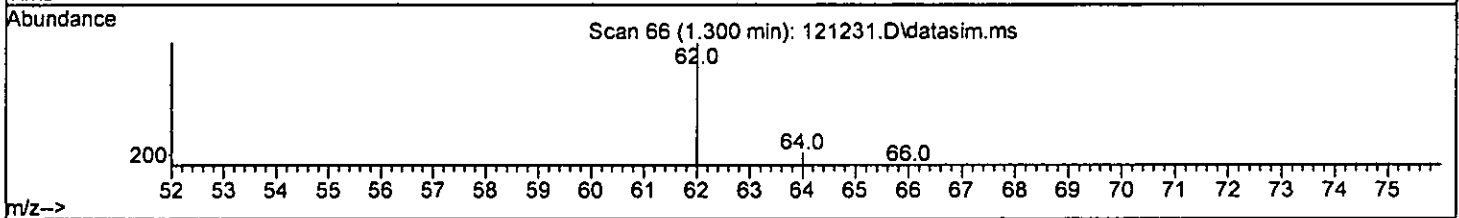
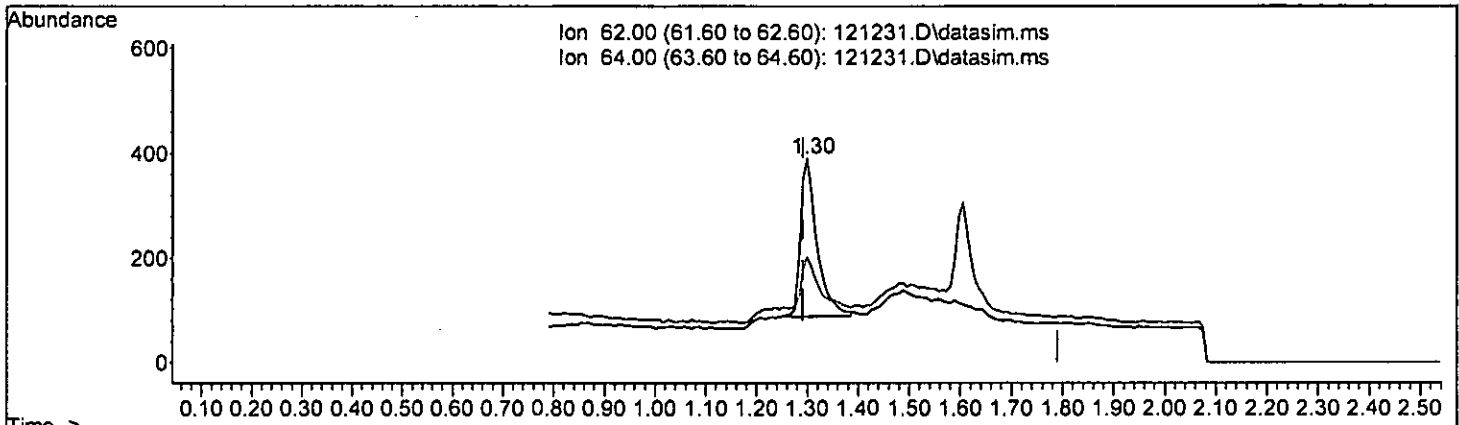
<del>(6) Vinyl chloride (TMP)</del>			
<del>1.300min (+ 0.008)</del>		<del>0.273 ppb</del>	
<del>response</del>	<del>974</del>		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	29.80	38.23	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121231.D\data.ms

(6) Vinyl chloride (TMP)  
 1.300min (+ 0.008) 0.188 ppb m

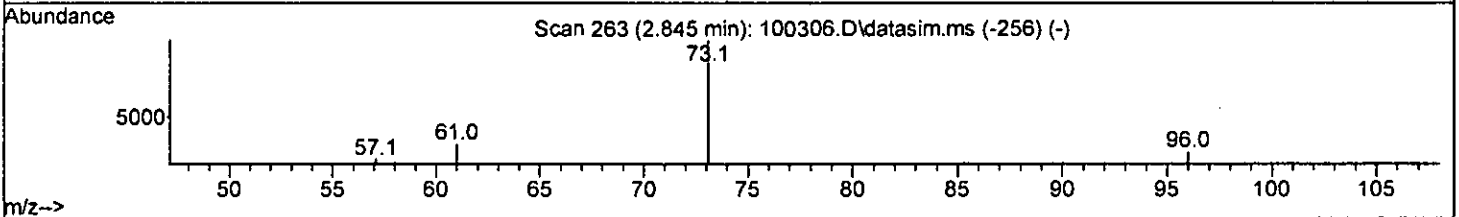
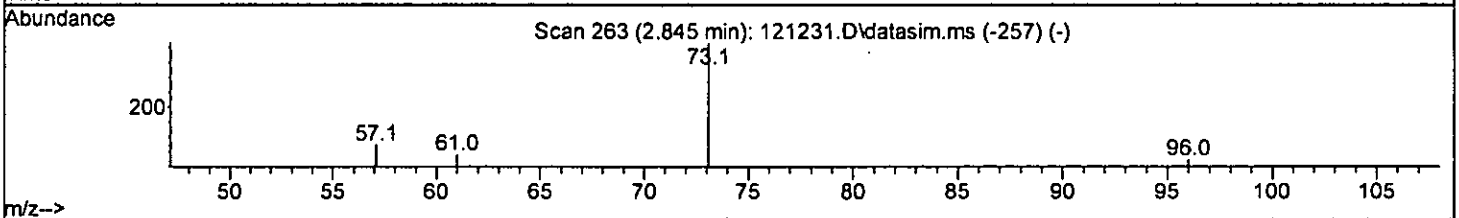
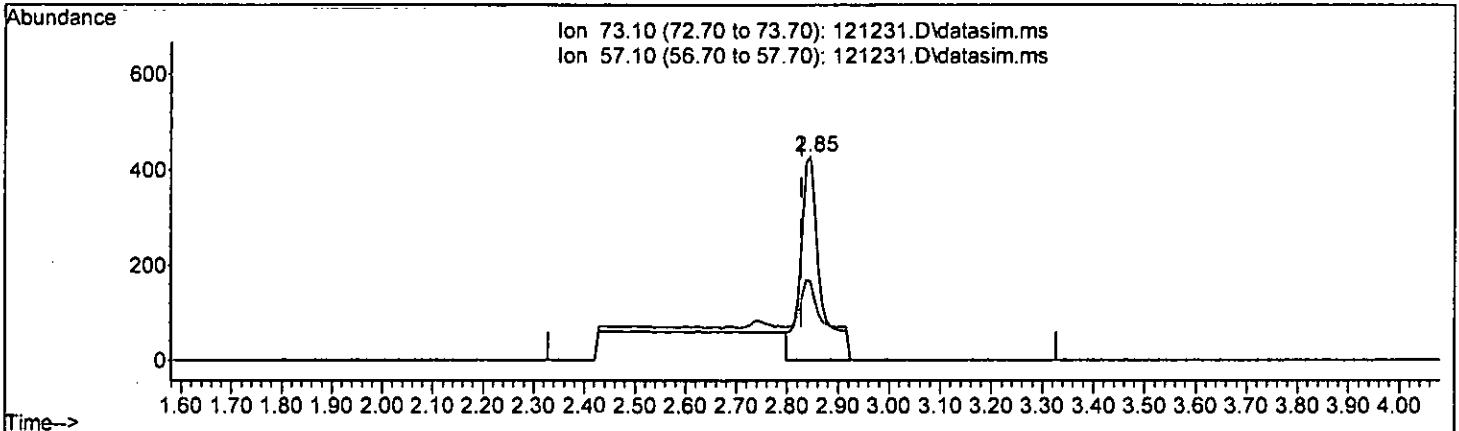
response	670	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	51.41
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121231.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.016) 0.319 ppb

response 1142

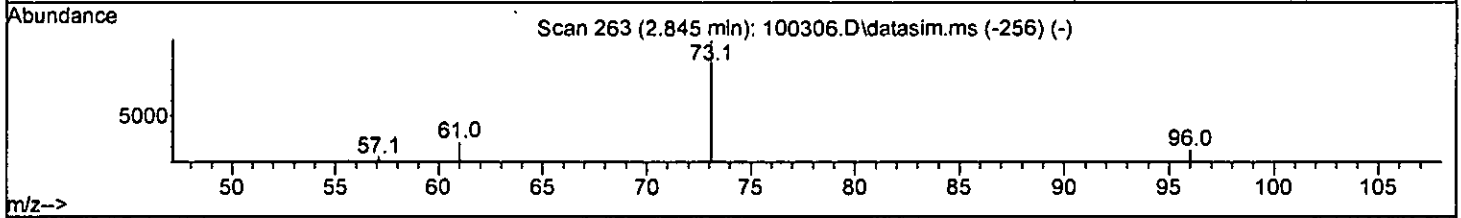
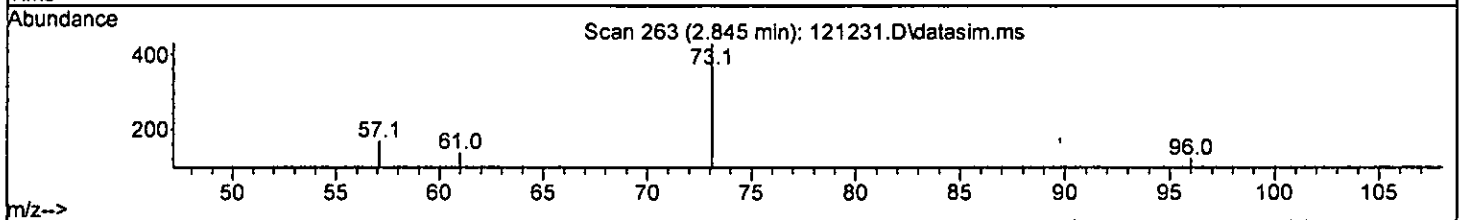
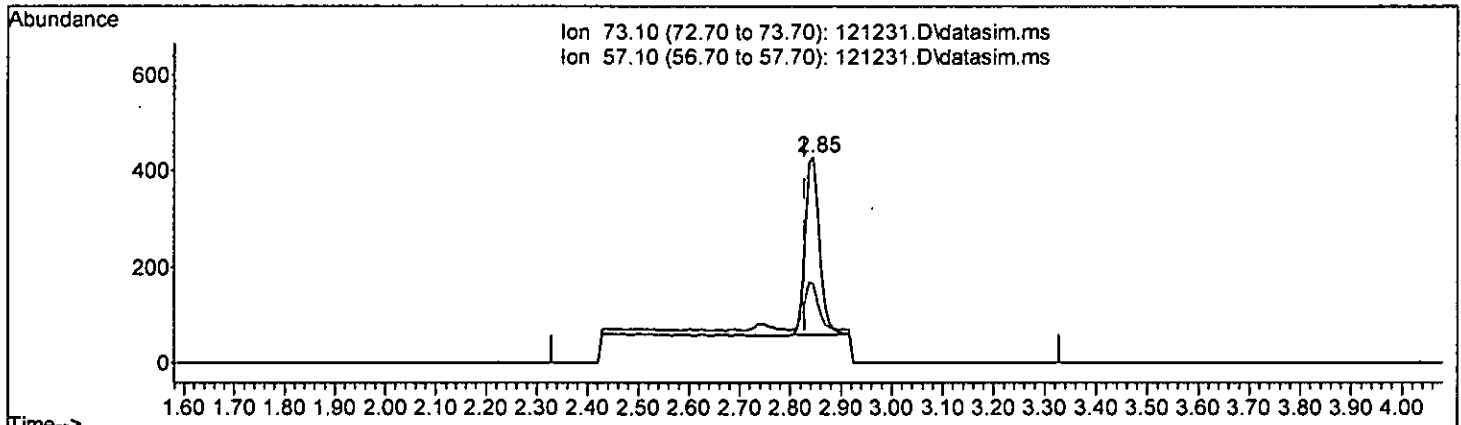
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	24.80	38.69
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121231.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.016) 0.200 ppb m

response	716		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	24.80	38.69	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15/2022*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	9.925	0.7	100	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.08#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.22#
6 TMP	Vinyl chloride	0.200	0.188	6.0	103	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP	Trichlorofluoromethane	0.200	0.215	-7.5	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.26#
12 TMP	1,1-Dichloroethene	0.200	0.208	-4.0	100	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.05#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.73#
16 TMP	Methyl t-butyl ether (MTBE)	0.200	0.200	0.0	98	0.02
17 TMP	trans-1,2-Dichloroethene	0.200	0.206	-3.0	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.200	0.232	-16.0	100	0.00
19 TMP	1,1-Dichloroethane	0.200	0.210	-5.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.200	0.218	-9.0	100	0.00
21 TMP	2,2-Dichloropropane	0.200	0.239	-19.5	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.200	0.212	-6.0	100	0.00
23 TMP	Chloroform	0.200	0.213	-6.5	100	0.00
24 TMP	2-Butanone (MEK)	1.000	0.000	100.0#	0	-3.70#
25 TMP	t-Amyl methyl ether (TAME)	0.200	0.189	5.5	100	0.02
26 TMP	1,2-Dichloroethane (EDC)	0.200	0.227	-13.5	100	0.00
27 TMP	1,1,1-Trichloroethane	0.200	0.202	-1.0	100	0.00
28 TMP	1,1-Dichloropropene	0.200	0.208	-4.0	100	0.00
29 TMP	Carbon tetrachloride	0.200	0.163	18.5	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.295	-2.9	100	0.00
31 TMP	Benzene	0.200	0.215	-7.5	100	0.00
32 TMP	Trichloroethene	0.200	0.209	-4.5	100	0.00
33 TMP	1,2-Dichloropropane	0.200	0.220	-10.0	100	0.00
34 TMP	Bromodichloromethane	0.200	0.209	-4.5	100	0.00
35 S	Toluene-d8	10.000	9.849	1.5	100	0.00
36 TMP	Dibromomethane	0.200	0.144	28.0#	100	0.00
37 TMP	4-Methyl-2-pentanone	1.000	0.000	100.0#	0	-5.91#
38 TMP	cis-1,3-Dichloropropene	0.200	0.278	-39.0#	100	0.00

OK 12/15  
 JLM



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.200	0.214	-7.0	100	0.00
41 TMP trans-1,3-Dichloropropene	0.200	0.185	7.5	100	0.00
42 TMP 1,1,2-Trichloroethane	0.200	0.205	-2.5	100	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#
44 TMP 1,3-Dichloropropane	0.200	0.167	16.5	100	0.00
45 TMP Tetrachloroethene	0.200	0.219	-9.5	100	0.00
46 TMP Dibromochloromethane	0.200	0.183	8.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.200	0.209	-4.5	100	0.00
48 TMP Chlorobenzene	0.200	0.209	-4.5	100	0.00
49 TMP Ethylbenzene	0.200	0.213	-6.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.200	0.149	25.5#	100	0.00
51 TMP m,p-Xylene	0.400	0.428	-7.0	100	0.00
52 TMP o-Xylene	0.200	0.210	-5.0	100	0.00
53 TMP Styrene	0.200	0.206	-3.0	100	0.00
54 TMP Isopropylbenzene	0.200	0.218	-9.0	100	0.00
55 TMP Bromoform	0.200	0.180	10.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.912	0.9	100	0.00
58 TMP n-Propylbenzene	0.200	0.212	-6.0	100	0.00
59 TMP Bromobenzene	0.200	0.205	-2.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.200	0.247	-23.5#	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.200	0.203	-1.5	100	0.00
62 TMP 1,2,3-Trichloropropane	0.200	0.269	-34.5#	100	0.00 OK 14.5 JLM
63 TMP 2-Chlorotoluene	0.200	0.241	-20.5#	100	0.00
64 TMP 4-Chlorotoluene	0.200	0.259	-29.5#	100	0.00
65 TMP tert-Butylbenzene	0.200	0.214	-7.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.200	0.229	-14.5	100	0.00
67 TMP sec-Butylbenzene	0.200	0.216	-8.0	100	0.00
68 TMP p-Isopropyltoluene	0.200	0.201	-0.5	100	0.00
69 TMP 1,3-Dichlorobenzene	0.200	0.220	-10.0	100	0.00
70 TMP 1,4-Dichlorobenzene	0.200	0.225	-12.5	100	0.00
71 TMP 1,2-Dichlorobenzene	0.200	0.196	2.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.200	0.182	9.0	100	0.00
74 TMP Hexachlorobutadiene	0.200	0.223	-11.5	100	0.00
75 TMP Naphthalene	0.200	0.000	100.0#	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.200	0.200	0.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.262	0.8	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.000#	100.0#	0#	-1.08#
5 TMP Chloromethane	0.883	0.000#	100.0#	0#	-1.22#
6 TMP Vinyl chloride	0.732	0.687	6.1	103	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP Chloroethane	0.336	0.000#	100.0#	0#	-1.59#
9 TMP Trichlorofluoromethane	0.870	0.934	-7.4	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.000#	100.0#	0#	-2.26#
12 TMP 1,1-Dichloroethene	0.240	0.250	-4.2	100	0.00
13 TMP Hexane	0.434	0.000#	100.0#	0#	-3.05#
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.734	-0.1	98	0.02
17 TMP trans-1,2-Dichloroethene	0.272	0.280	-2.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	1.080	-15.9	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.529	-5.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.323	-9.1	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.378	-19.6	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.303	-5.9	100	0.00
23 TMP Chloroform	0.477	0.509	-6.7	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.000#	100.0#	0#	-3.70#
25 TMP t-Amyl methyl ether (TAME)	0.694	0.656	5.5	100	0.02
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.469	-13.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.444	-0.9	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.376	-3.9	100	0.00
29 TMP Carbon tetrachloride	0.367	0.298	18.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.999	1.074	-7.5	100	0.00
32 TMP Trichloroethene	0.316	0.330	-4.4	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.326	-10.1	100	0.00
34 TMP Bromodichloromethane	0.357	0.373	-4.5	100	0.00
35 S Toluene-d8	0.960	0.946	1.5	100	0.00
36 TMP Dibromomethane	0.169	0.122	27.8#	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.000#	100.0#	0#	-5.91#
38 TMP cis-1,3-Dichloropropene	0.429	0.595	-38.7#	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.916	-6.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.448	7.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.270	-2.3	100	0.00
43 TMP 2-Hexanone	0.335	0.000#	100.0#	0#	-6.64#
44 TMP 1,3-Dichloropropane	0.470	0.392	16.6	100	0.00
45 TMP Tetrachloroethene	0.342	0.375	-9.6	100	0.00
46 TMP Dibromochloromethane	0.354	0.323	8.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.343	-4.9	100	0.00
48 TMP Chlorobenzene	0.925	0.967	-4.5	100	0.00
49 TMP Ethylbenzene	1.611	1.713	-6.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.249	25.2#	100	0.00
51 TMP m,p-Xylene	0.607	0.649	-6.9	100	0.00
52 TMP o-Xylene	0.595	0.623	-4.7	100	0.00
53 TMP Styrene	0.973	1.002	-3.0	100	0.00
54 TMP Isopropylbenzene	1.564	1.708	-9.2	100	0.00
55 TMP Bromoform	0.252	0.227	9.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.837	0.8	100	0.00
58 TMP n-Propylbenzene	3.281	3.483	-6.2	100	0.00
59 TMP Bromobenzene	0.770	0.791	-2.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	3.022	-23.7#	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.708	-1.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.788	-34.5#	100	0.00
63 TMP 2-Chlorotoluene	1.941	2.337	-20.4#	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.951	-29.4#	100	0.00
65 TMP tert-Butylbenzene	2.141	2.292	-7.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.838	-14.6	100	0.00
67 TMP sec-Butylbenzene	3.103	3.358	-8.2	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.690	-0.7	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.574	-9.8	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.640	-12.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.351	2.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.890	9.2	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.605	-11.6	100	0.00
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.906	-0.2	100	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	4.63	96	48767	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38819	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21245	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12771	9.925	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.30%		
30) 1,2-Dichloroethane-d4	4.36	102	3029	10.295	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	103.00%		
35) Toluene-d8	5.98	98	46117	9.849	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	98.50%		
57) 4-Bromofluorobenzene	8.38	95	17778	9.912	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	99.10%		
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.30	62	670m	0.188	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	1.79	101	911	0.215	ppb		75
10) 2-Propanol	2.41	45	207	No Calib			
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.19	96	244	0.208	ppb		89
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.85	73	716m	0.200	ppb		
17] trans-1,2-Dichloroethene	2.83	96	273	0.206	ppb		95
18) Diisopropyl ether (DIPE)	3.24	45	1053m	0.232	ppb		
19] 1,1-Dichloroethane	3.18	63	516	0.210	ppb		94
20) Ethyl t-butyl ether (E...)	3.56	87	315m	0.218	ppb		
21) 2,2-Dichloropropane	3.66	77	369	0.239	ppb		47
22] cis-1,2-Dichloroethene	3.67	96	296	0.212	ppb		98
23) Chloroform	3.94	83	496	0.213	ppb		97
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.51	73	640	0.189	ppb		57
26] 1,2-Dichloroethane (EDC)	4.42	62	457	0.227	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	433	0.202	ppb		96
28) 1,1-Dichloropropene	4.22	75	367	0.208	ppb	#	60
29) Carbon tetrachloride	4.22	117	291	0.163	ppb		80

Quantitation Report (QT Reviewed)

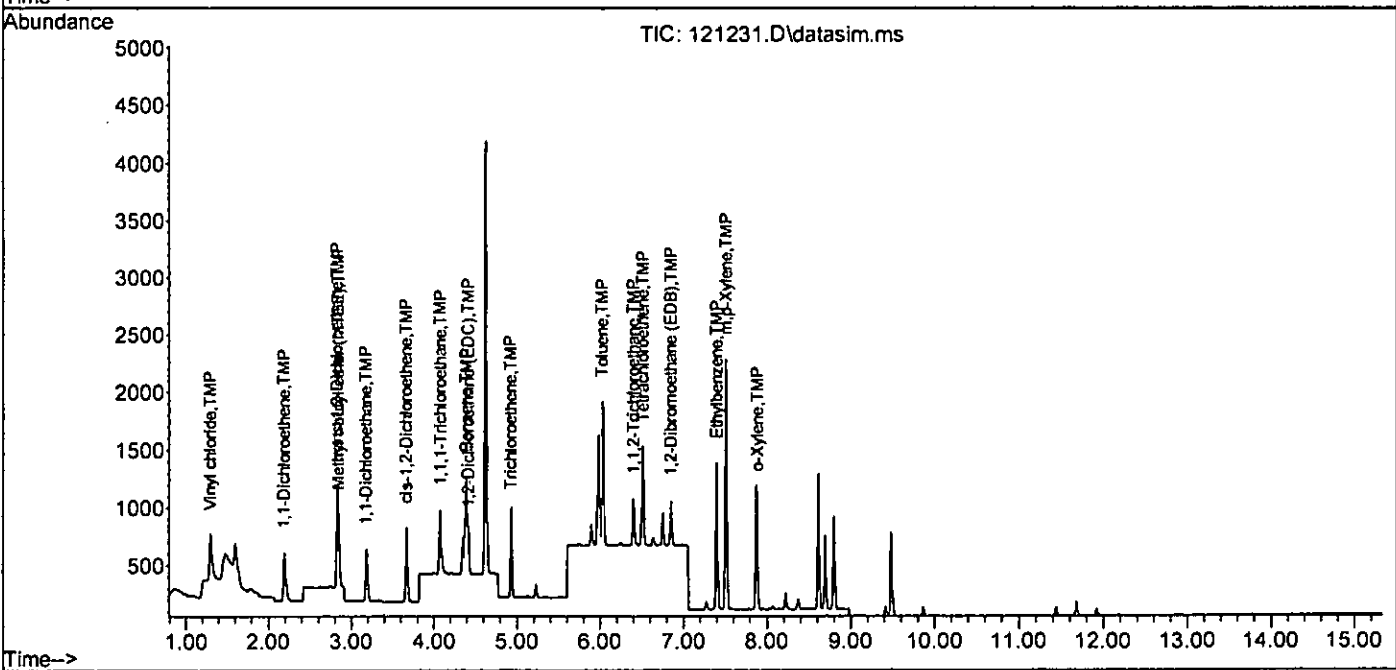
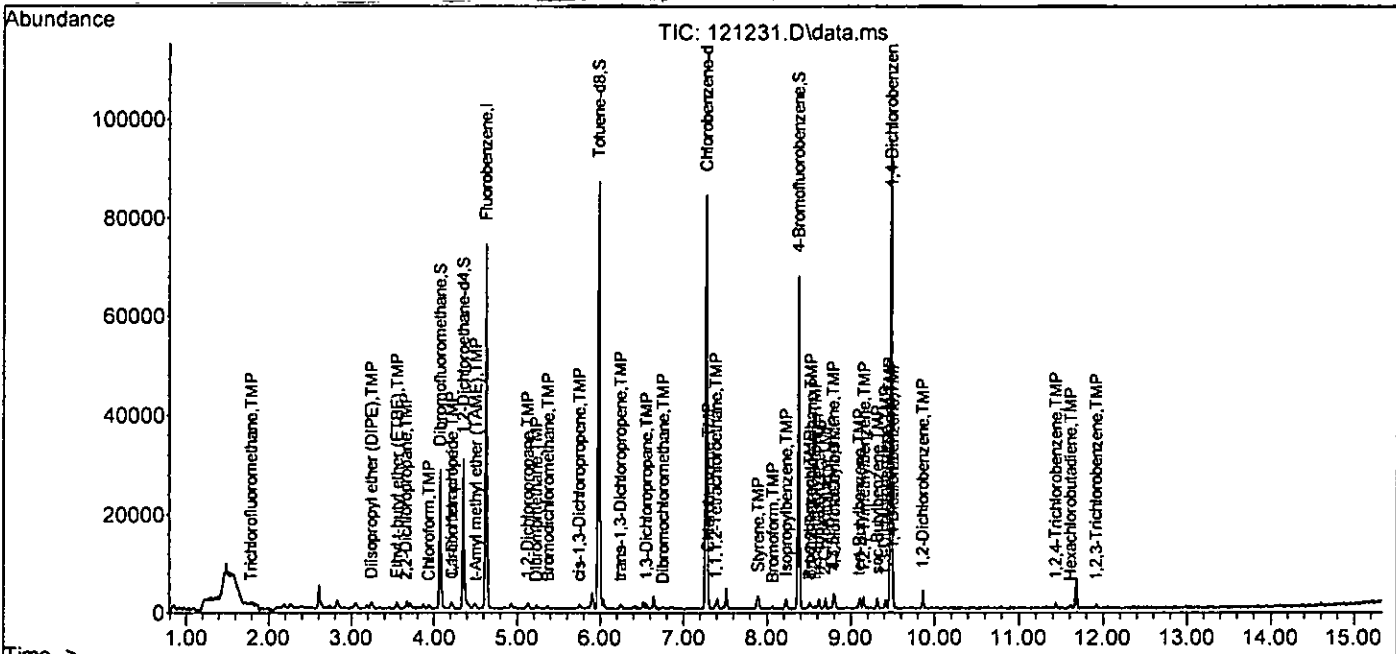
Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Oev(Min)
31] Benzene	4.39	78	1048	0.215	ppb	99
32] Trichloroethene	4.93	95	322	0.209	ppb	99
33] 1,2-Dichloropropane	5.13	63	318	0.220	ppb #	91
34] Bromodichloromethane	5.37	83	364	0.209	ppb	67
36] Dibromomethane	5.23	93	119	0.144	ppb #	45
37] 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38] cis-1,3-Dichloropropene	5.75	75	580	0.278	ppb	83
40] Toluene	6.03	92	711	0.214	ppb	91
41] trans-1,3-Dichloropropene	6.25	75	348	0.185	ppb	74
42] 1,1,2-Trichloroethane	6.40	83	210	0.205	ppb	97
43] 2-Hexanone	0.00		0	N.D.	d	
44] 1,3-Dichloropropane	6.55	76	304	0.167	ppb	84
45] Tetrachloroethene	6.51	164	291	0.219	ppb	99
46] Dibromochloromethane	6.75	129	251	0.183	ppb	80
47] 1,2-Dibromoethane (EDB)	6.85	107	266	0.209	ppb	97
48] Chlorobenzene	7.30	112	751	0.209	ppb	93
49] Ethylbenzene	7.40	91	1330	0.213	ppb	99
50] 1,1,1,2-Tetrachloroethane	7.39	131	193	0.149	ppb #	66
51] m,p-Xylene	7.51	106	1008	0.428	ppb #	69
52] o-Xylene	7.88	106	484	0.210	ppb	100
53] Styrene	7.90	104	778	0.206	ppb	68
54] Isopropylbenzene	8.23	105	1326	0.218	ppb	91
55] Bromoform	8.07	173	176	0.180	ppb #	32
58] n-Propylbenzene	8.62	91	1480	0.212	ppb	63
59] Bromobenzene	8.51	156	336	0.205	ppb	89
60] 1,3,5-Trimethylbenzene	8.79	105	1284	0.247	ppb	76
61] 1,1,2,2-Tetrachloroethane	8.52	83	301	0.203	ppb #	59
62] 1,2,3-Trichloropropane	8.57	75	335	0.269	ppb	82
63] 2-Chlorotoluene	8.70	91	993	0.241	ppb	84
64] 4-Chlorotoluene	8.81	91	1254	0.259	ppb	95
65] tert-Butylbenzene	9.10	119	974	0.214	ppb	89
66] 1,2,4-Trimethylbenzene	9.15	105	1206	0.229	ppb	86
67] sec-Butylbenzene	9.31	105	1427	0.216	ppb	90
68] p-Isopropyltoluene	9.46	119	1143	0.201	ppb	97
69] 1,3-Dichlorobenzene	9.41	146	669	0.220	ppb	95
70] 1,4-Dichlorobenzene	9.50	146	697	0.225	ppb	95
71] 1,2-Dichlorobenzene	9.86	146	574	0.196	ppb	96
72] 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73] 1,2,4-Trichlorobenzene	11.44	180	378	0.182	ppb	84
74] Hexachlorobutadiene	11.61	225	257	0.223	ppb #	68
75] Naphthalene	0.00		0	N.D.	d	
76] 1,2,3-Trichlorobenzene	11.91	180	385	0.200	ppb #	65

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

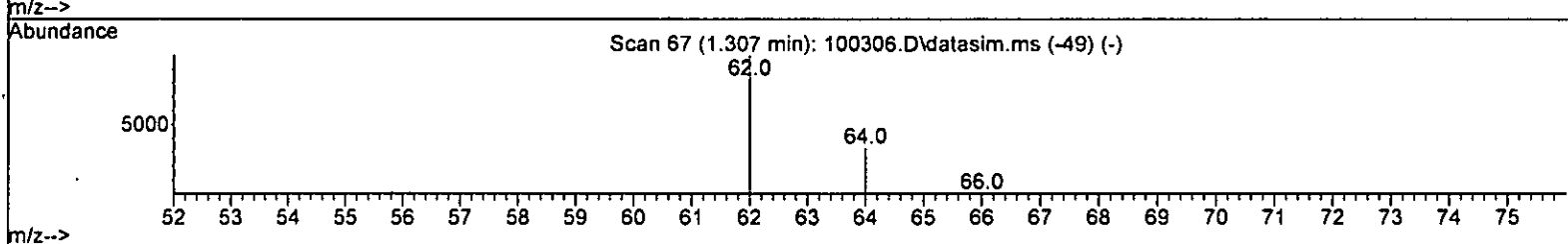
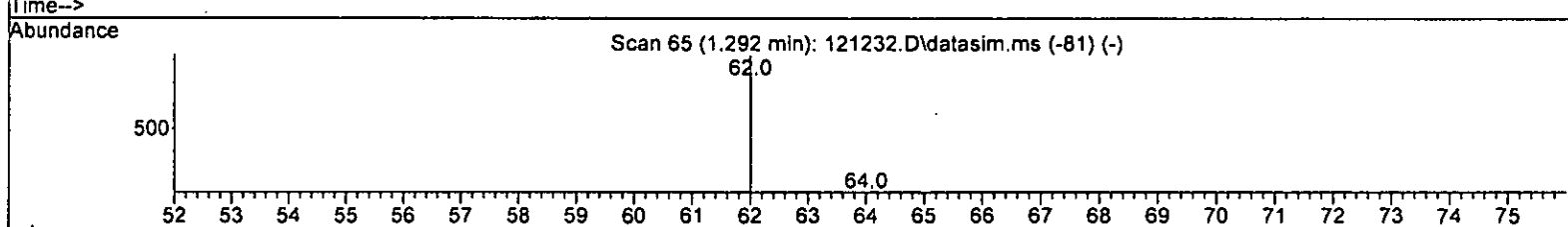
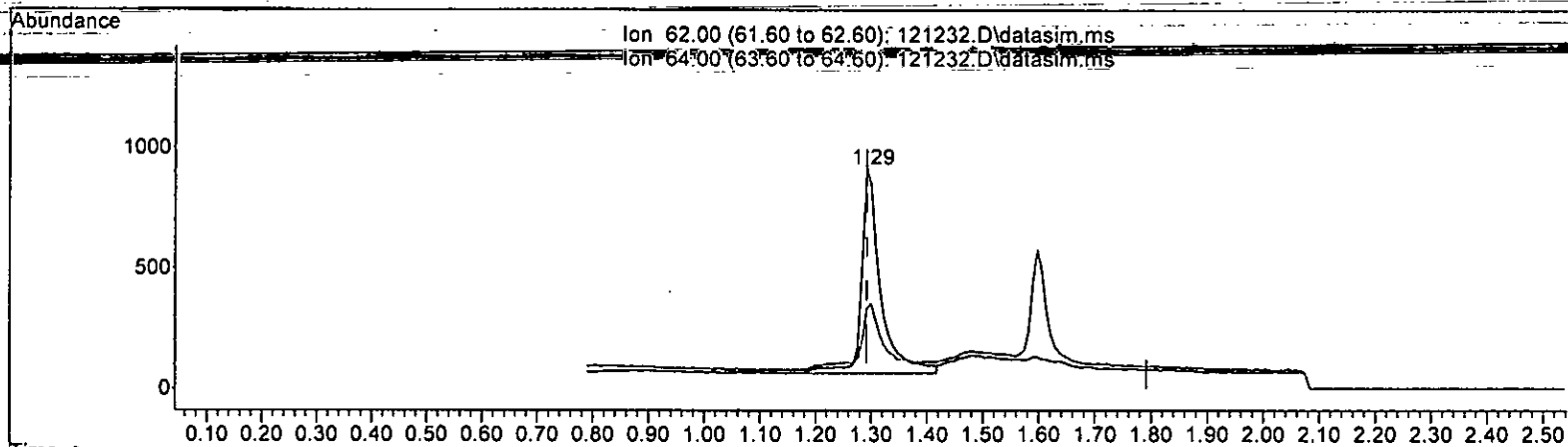
Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(6) Vinyl chloride (TMP)

1.292min (-0.000) 0.572 ppb

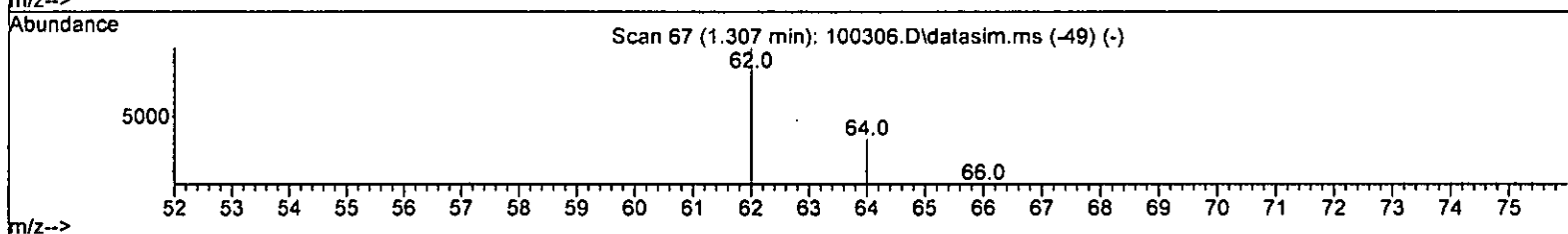
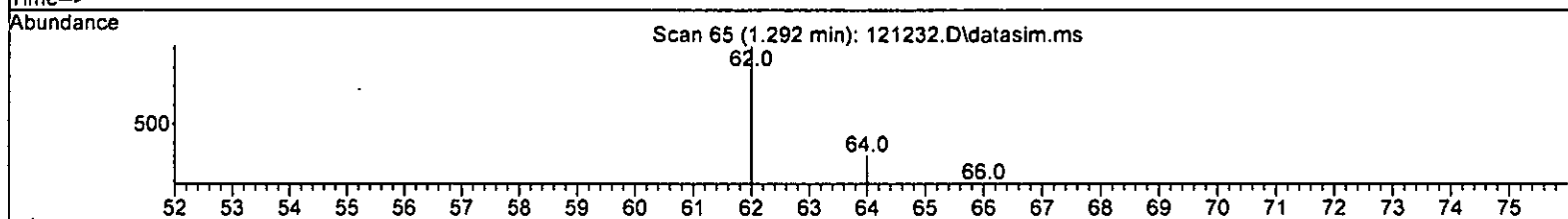
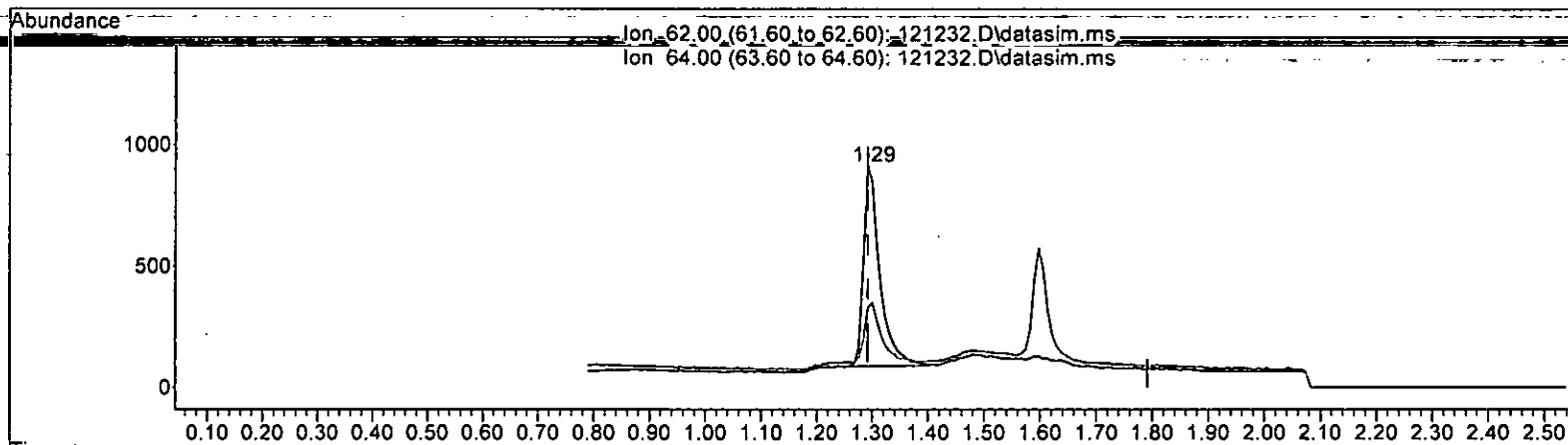
response	2023	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	29.83
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 121232.D\data.ms

(6) Vinyl chloride (TMP)  
 1.292min (-0.000) 0.472 ppb m

response	1669
Ion	Exp% Act%
62.00	100.00 100.00
64.00	28.80 36.18
0.00	0.00 0.00
0.00	0.00 0.00

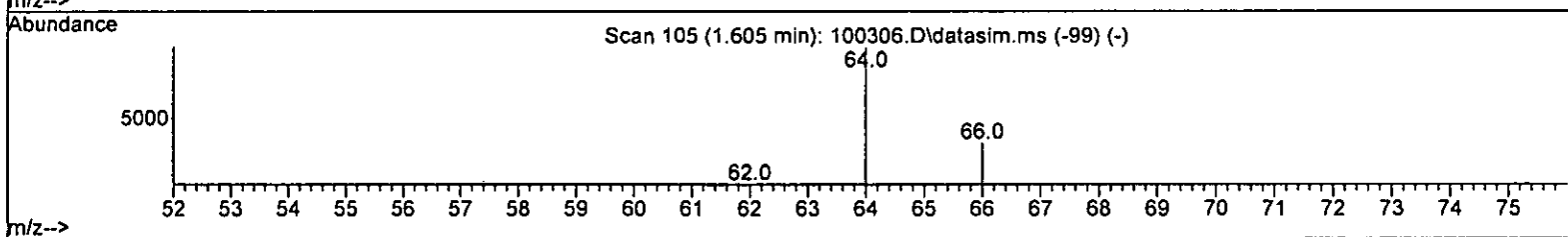
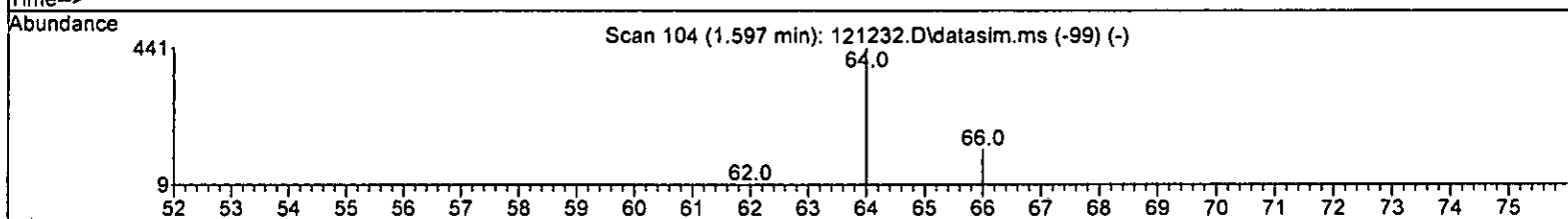
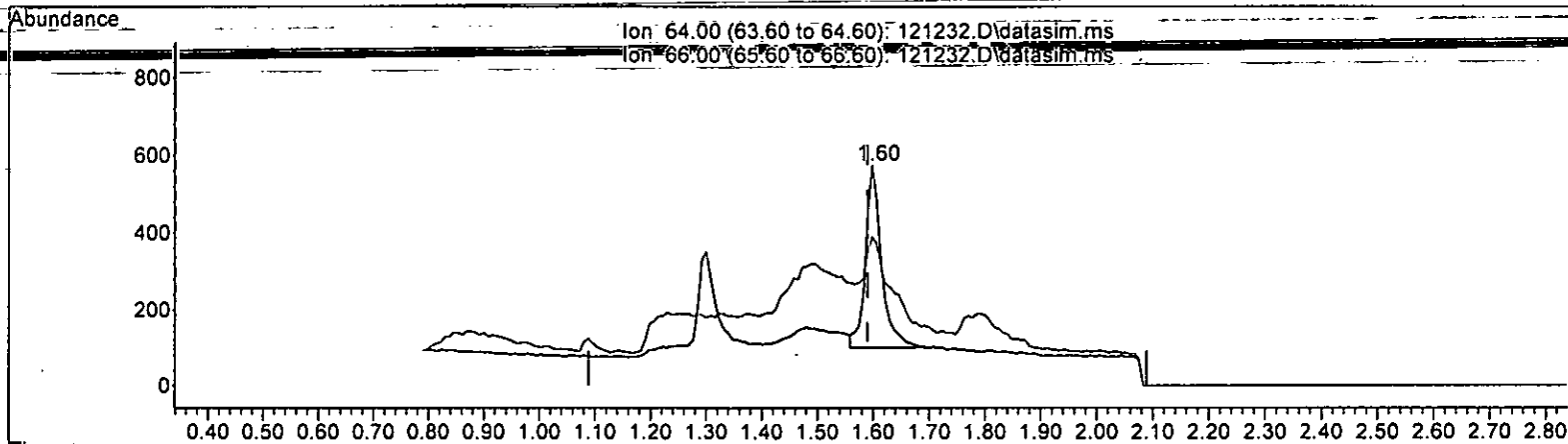
*LM 12/15*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(8) Chloroethane (TMP)

1.597min (+ 0.008) 0.581 ppb

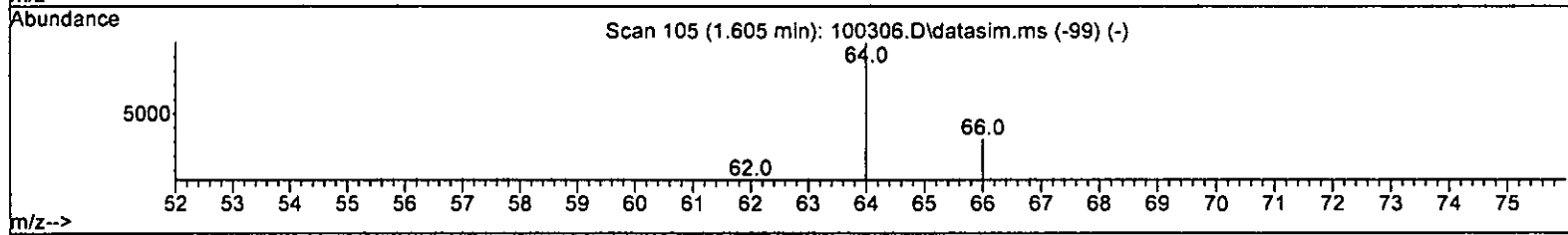
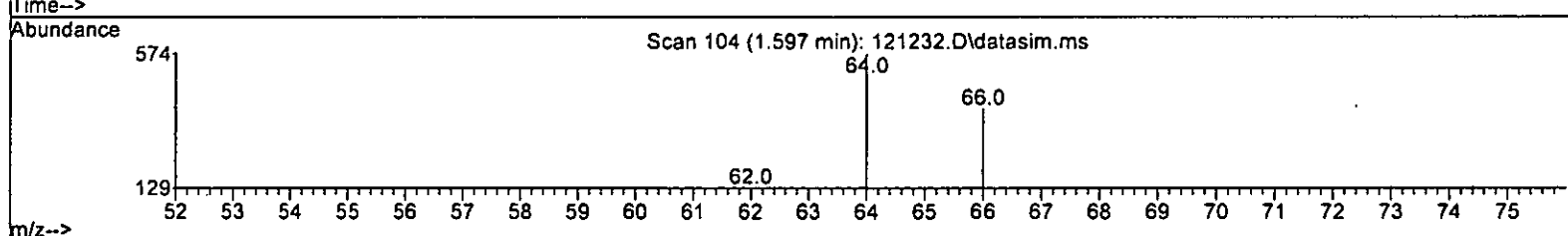
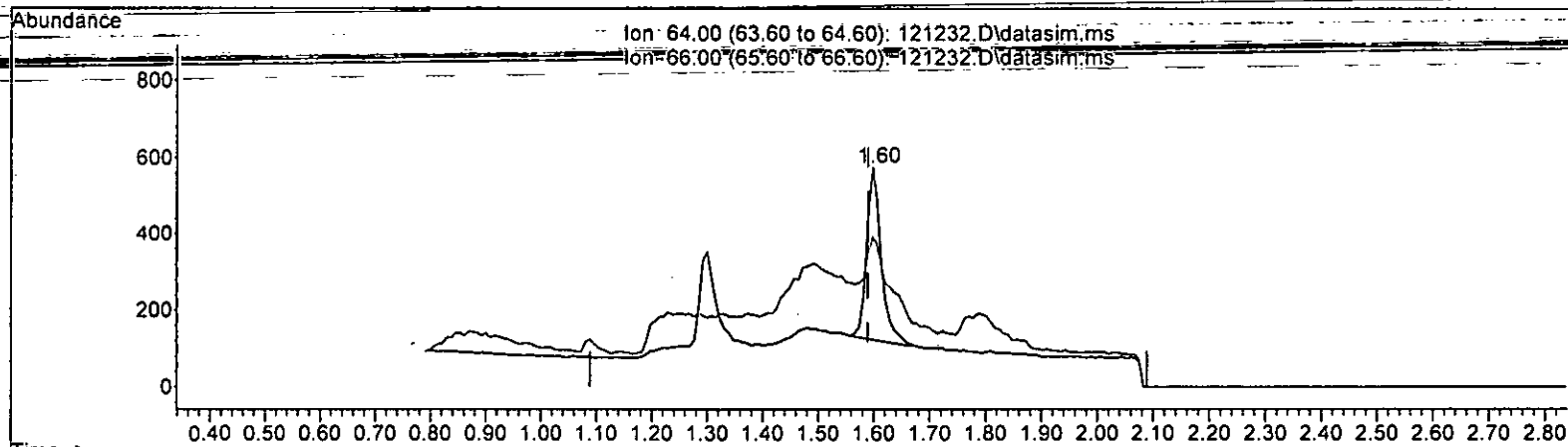
response	945	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	29.60	49.68
0.00	0.00	0.00
0.00	0.00	0.00

*12/15/2022*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(8) Chloroethane (TMP)

1.597min (+ 0.008) 0.499 ppb m

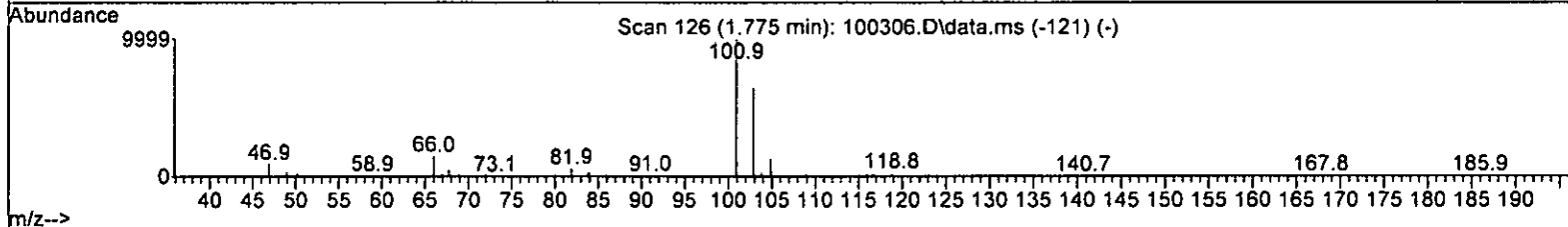
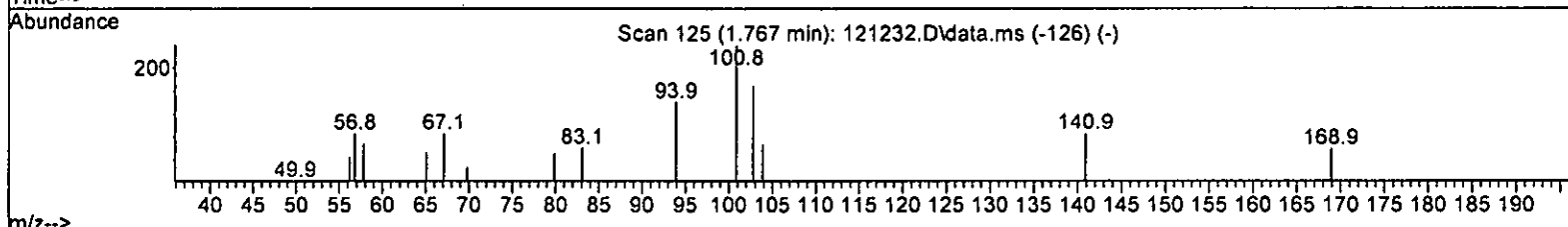
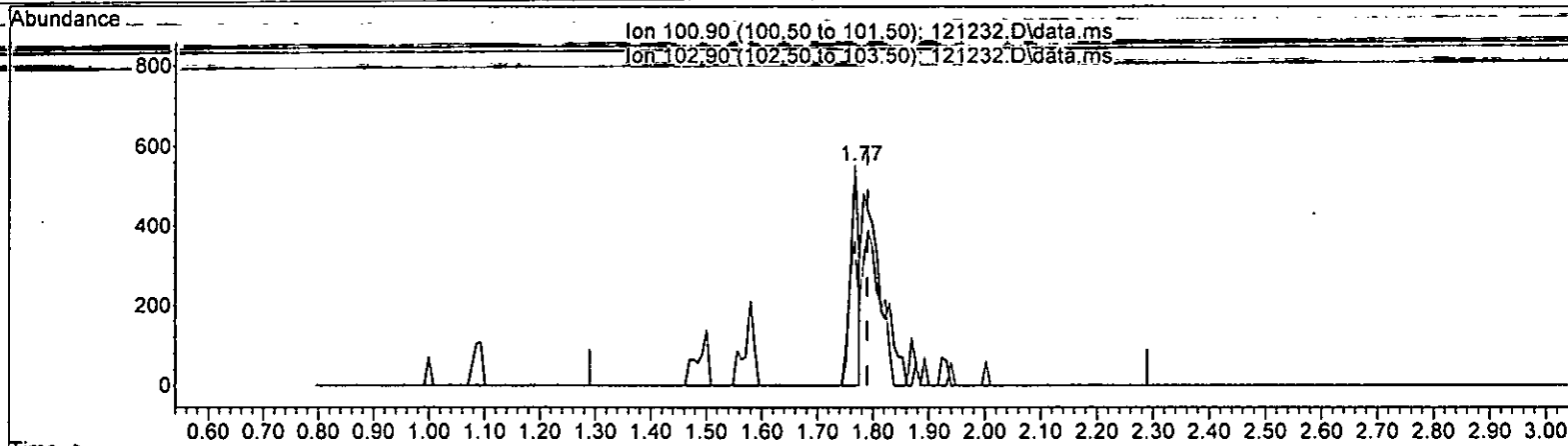
response	812
Ion	Exp% Act%
64.00	100.00 100.00
66.00	29.60 67.83#
0.00	0.00 0.00
0.00	0.00 0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 0.136 ppb

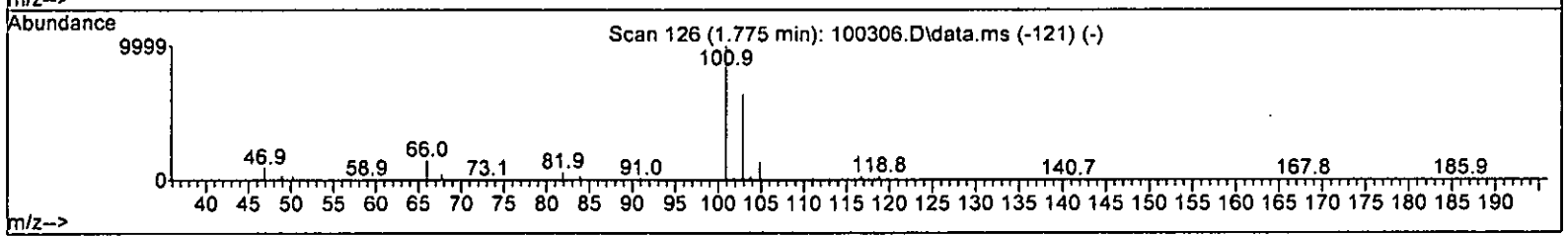
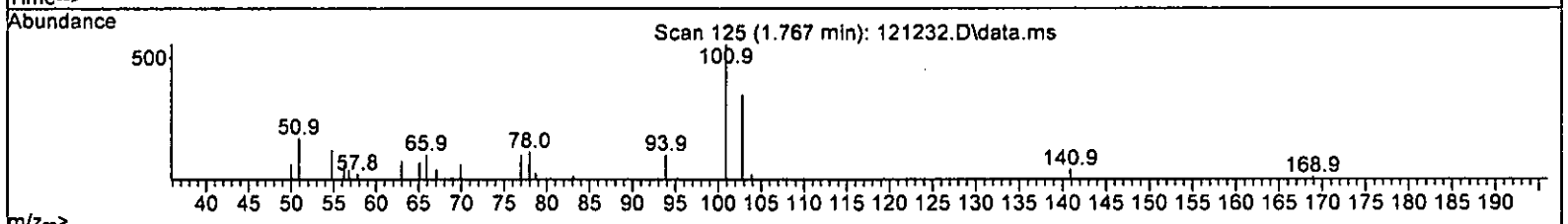
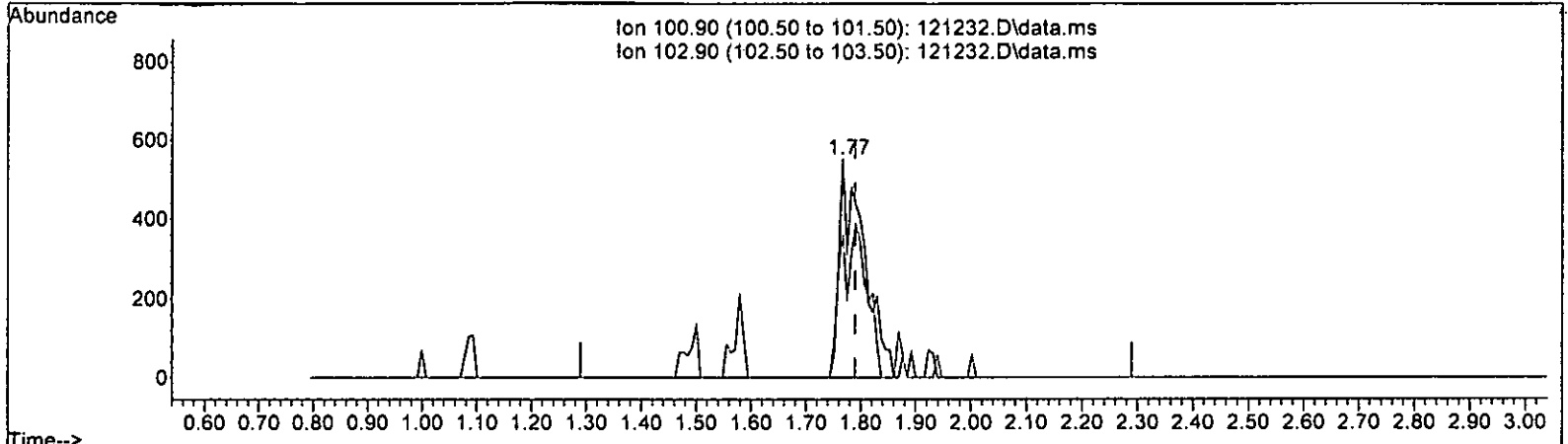
response	571
Ion	Exp% Act%
100.90	100.00 100.00
102.90	62.70 65.40
0.00	0.00 0.00
0.00	0.00 0.00

12/15 LM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(9) Trichlorofluoromethane (TMF)

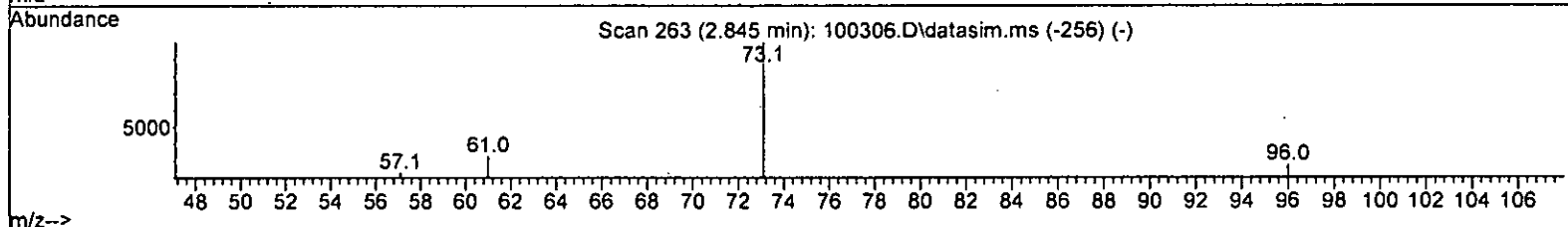
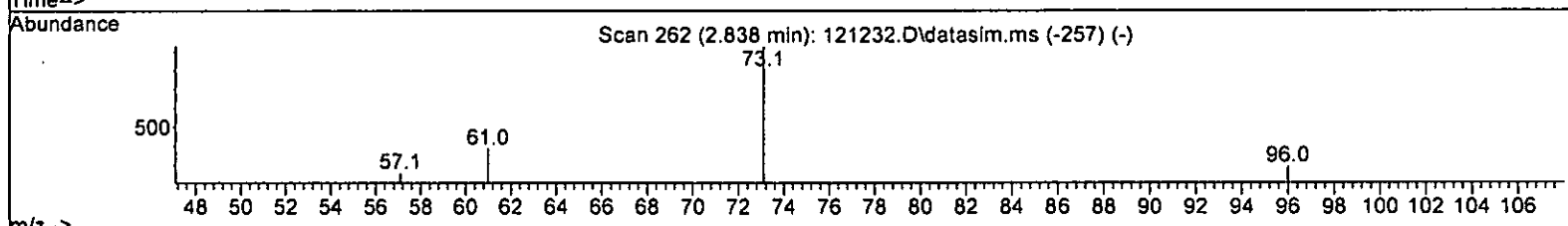
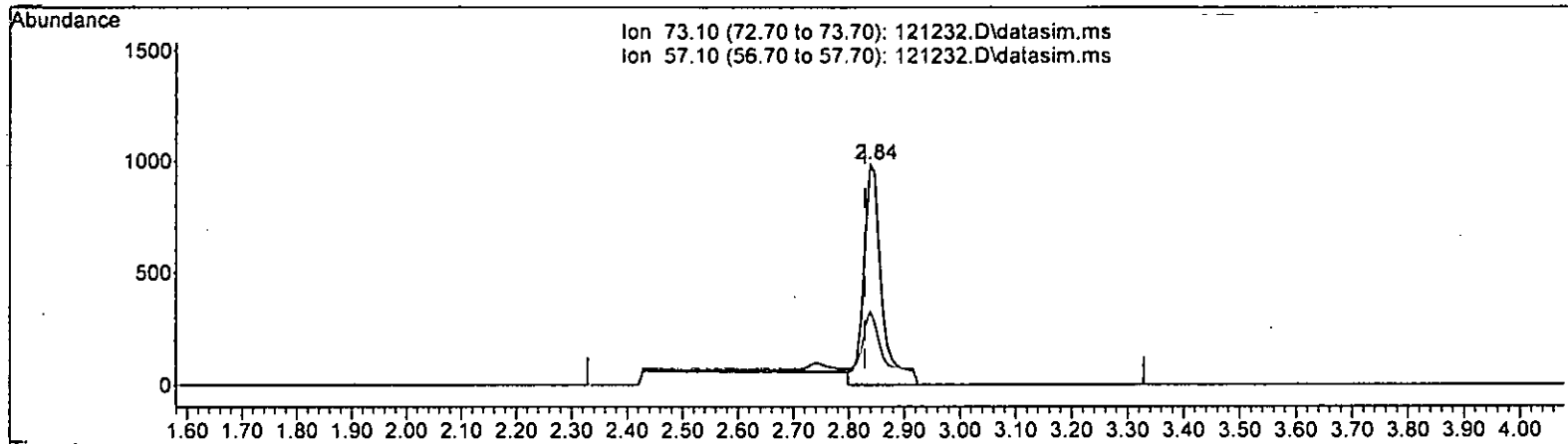
1.767min (-0.023) 0.410 ppb m

response	1723		
Ion	Exp%	Act%	
100.90	100.00	100.00	<i>1715 DM</i>
102.90	62.70	65.40	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAI 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.838min (+ 0.009) 0.620 ppb

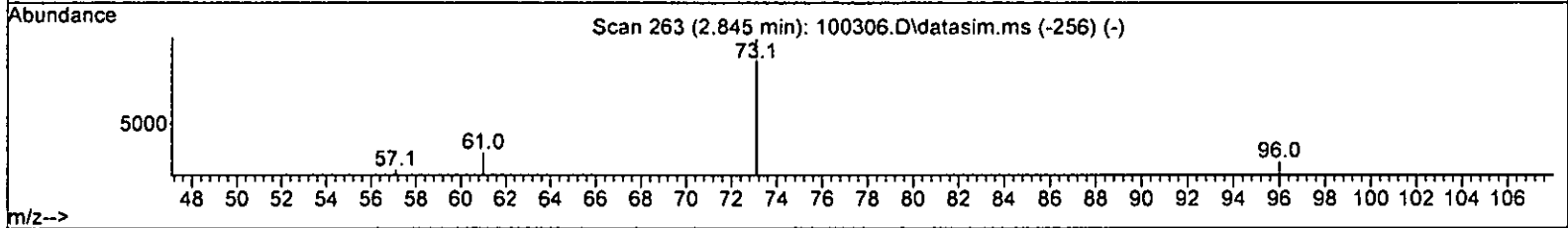
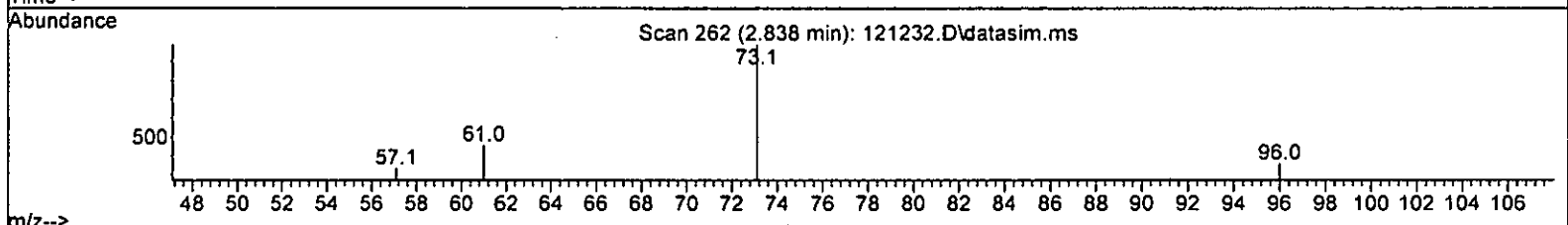
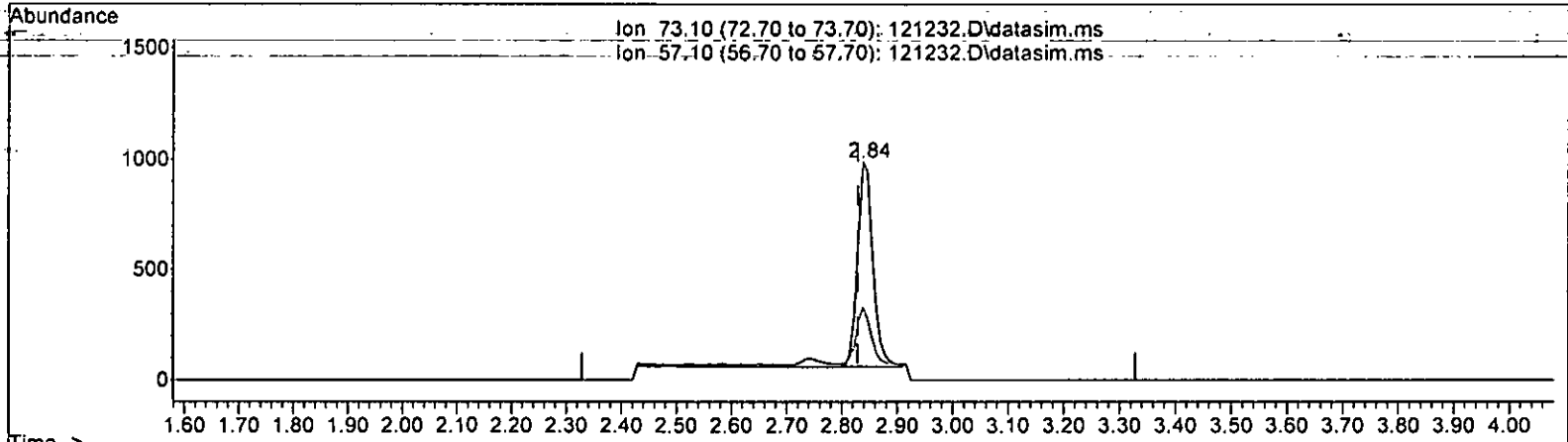
response	2198	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	24.80	33.43
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: 12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.838min (+ 0.009) 0.499 ppb m

response	1768		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	24.80	33.43	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 LM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-2S3  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.04
3 S Dibromofluoromethane	10.000	9.785	2.1	100	0.00
4 TMP Dichlorodifluoromethane	0.500	0.437	12.6	100	0.00
5 TMP Chloromethane	0.500	0.000	100.0#	0	-1.22#
6 TMP Vinyl chloride	0.500	0.472	5.6	98	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP Chloroethane	0.500	0.499	0.2	86	0.00
9 TMP Trichlorofluoromethane	0.500	0.410	18.0	97	-0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	2.500	2.783	-11.3	100	0.02
12 TMP 1,1-Dichloroethene	0.500	0.494	1.2	100	0.00
13 TMP Hexane	0.500	0.544	-8.8	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	2.500	2.373	5.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.500	0.499	0.2	98	0.00
17 TMP trans-1,2-Dichloroethene	0.500	0.485	3.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.500	0.483	3.4	100	0.00
19 TMP 1,1-Dichloroethane	0.500	0.503	-0.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.500	0.417	16.6	100	0.00
21 TMP 2,2-Dichloropropane	0.500	0.564	-12.8	100	0.00
22 TMP cis-1,2-Dichloroethene	0.500	0.503	-0.6	100	0.00
23 TMP Chloroform	0.500	0.565	-13.0	100	0.00
24 TMP 2-Butanone (MEK)	2.500	2.888	-15.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.500	0.553	-10.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.500	0.513	-2.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.500	0.498	0.4	100	0.00
28 TMP 1,1-Dichloropropene	0.500	0.513	-2.6	100	0.00
29 TMP Carbon tetrachloride	0.500	0.453	9.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.615	3.8	100	0.00
31 TMP Benzene	0.500	0.504	-0.8	100	0.00
32 TMP Trichloroethene	0.500	0.493	1.4	100	0.00
33 TMP 1,2-Dichloropropane	0.500	0.563	-12.6	100	0.00
34 TMP Bromodichloromethane	0.500	0.585	-17.0	100	0.00
35 S Toluene-d8	10.000	10.060	-0.6	100	0.00
36 TMP Dibromomethane	0.500	0.552	-10.4	100	0.00
37 TMP 4-Methyl-2-pentanone	2.500	2.469	1.2	100	0.00
38 TMP cis-1,3-Dichloropropene	0.500	0.481	3.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.500	0.504	-0.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.500	0.433	13.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.500	0.495	1.0	100	0.00
43 TMP 2-Hexanone	2.500	2.784	-11.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. RRT Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.500	0.504	-0.8	100	0.00
45 TMP Tetrachloroethene	0.500	0.515	-3.0	100	0.00
46 TMP Dibromochloromethane	0.500	0.467	6.6	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.500	0.504	-0.8	100	0.00
48 TMP Chlorobenzene	0.500	0.488	2.4	100	0.00
49 TMP Ethylbenzene	0.500	0.513	-2.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.500	0.516	-3.2	100	0.00
51 TMP m,p-Xylene	1.000	1.038	-3.8	100	0.00
52 TMP o-Xylene	0.500	0.522	-4.4	100	0.00
53 TMP Styrene	0.500	0.460	8.0	100	0.00
54 TMP Isopropylbenzene	0.500	0.499	0.2	100	0.00
55 TMP Bromoform	0.500	0.462	7.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.129	-1.3	100	0.00
58 TMP n-Propylbenzene	0.500	0.494	1.2	100	0.00
59 TMP Bromobenzene	0.500	0.477	4.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.500	0.506	-1.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.500	0.502	-0.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.500	0.463	7.4	100	0.00
63 TMP 2-Chlorotoluene	0.500	0.488	2.4	100	0.00
64 TMP 4-Chlorotoluene	0.500	0.518	-3.6	100	0.00
65 TMP tert-Butylbenzene	0.500	0.496	0.8	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.500	0.521	-4.2	100	0.00
67 TMP sec-Butylbenzene	0.500	0.497	0.6	100	0.00
68 TMP p-Isopropyltoluene	0.500	0.495	1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	0.500	0.499	0.2	100	0.00
70 TMP 1,4-Dichlorobenzene	0.500	0.506	-1.2	100	0.00
71 TMP 1,2-Dichlorobenzene	0.500	0.545	-9.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.500	0.469	6.2	100	0.00
74 TMP Hexachlorobutadiene	0.500	0.485	3.0	100	0.00
75 TMP Naphthalene	0.500	0.000	100.0#	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.500	0.490	2.0	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.04
3 S Dibromofluoromethane	0.264	0.258	2.3	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.602	12.5	100	0.00
5 TMP Chloromethane	0.883	0.000#	100.0#	0#	-1.22#
6 TMP Vinyl chloride	0.732	0.690	5.7	98	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP Chloroethane	0.336	0.336	0.0	86	0.00
9 TMP Trichlorofluoromethane	0.870	0.713	18.0	97	-0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.041	-10.8	100	0.02
12 TMP 1,1-Dichloroethene	0.240	0.237	1.3	100	0.00
13 TMP Hexane	0.434	0.472	-8.8	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.044	4.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.731	0.3	98	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.264	2.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.900	3.4	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.508	-0.8	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.247	16.6	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.357	-13.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.288	-0.7	100	0.00
23 TMP Chloroform	0.477	0.539	-13.0	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.211	-15.3	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.767	-10.5	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.424	-2.7	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.438	0.5	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.371	-2.5	100	0.00
29 TMP Carbon tetrachloride	0.367	0.333	9.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP Benzene	0.999	1.007	-0.8	100	0.00
32 TMP Trichloroethene	0.316	0.311	1.6	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.333	-12.5	100	0.00
34 TMP Bromodichloromethane	0.357	0.418	-17.1	100	0.00
35 S Toluene-d8	0.960	0.966	-0.6	100	0.00
36 TMP Dibromomethane	0.169	0.187	-10.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.052	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.412	4.0	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.864	-0.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.419	13.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.261	1.1	100	0.00
43 TMP 2-Hexanone	0.335	0.373	-11.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.473	-0.6	100	0.00
45 TMP Tetrachloroethene	0.342	0.353	-3.2	100	0.00
46 TMP Dibromochloromethane	0.354	0.330	6.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.330	-0.9	100	0.00
48 TMP Chlorobenzene	0.925	0.902	2.5	100	0.00
49 TMP Ethylbenzene	1.611	1.652	-2.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.343	-3.0	100	0.00
51 TMP m,p-Xylene	0.607	0.630	-3.8	100	0.00
52 TMP o-Xylene	0.595	0.621	-4.4	100	0.00
53 TMP Styrene	0.973	0.894	8.1	100	0.00
54 TMP Isopropylbenzene	1.564	1.559	0.3	100	0.00
55 TMP Bromoform	0.252	0.233	7.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.855	-1.3	100	0.00
58 TMP n-Propylbenzene	3.281	3.243	1.2	100	0.00
59 TMP Bromobenzene	0.770	0.735	4.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.473	-1.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.700	-0.3	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.543	7.3	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.895	2.4	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.363	-3.6	100	0.00
65 TMP tert-Butylbenzene	2.141	2.123	0.8	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.581	-4.2	100	0.00
67 TMP sec-Butylbenzene	3.103	3.087	0.5	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.647	0.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.430	0.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.478	-1.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.505	-9.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.919	6.2	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.526	3.0	100	0.00
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.885	2.1	100	0.00

(#) = Out of Range

SPCC's out = 6 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.63	96	48353	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	38043	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	21492	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	12484	9.785	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	97.90%	
30) 1,2-Dichloroethane-d4	4.36	102	2805	9.615	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery	=	96.20%	
35) Toluene-d8	5.98	98	46703	10.060	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery	=	100.60%	
57) 4-Bromofluorobenzene	8.38	95	18379	10.129	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery	=	101.30%	

Target Compounds						Qvalue
2) Ethanol	1.90	45	83	No Calib		
4) Dichlorodifluoromethane	1.09	85	1455	0.437	ppb	93
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.29	62	1669m	0.472	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8] Chloroethane	1.60	64	812m	0.499	ppb	
9) Trichlorofluoromethane	1.77	101	1723m	0.410	ppb	
10) 2-Propanol	2.41	45	312	No Calib		
11) Acetone	2.28	58	501	2.783	ppb	# 38
12] 1,1-Dichloroethene	2.19	96	574	0.494	ppb	90
13) Hexane	3.05	57	1141	0.544	ppb	89
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	2.74	59	530	2.373	ppb	# 31
16] Methyl t-butyl ether (...)	2.84	73	1768m	0.499	ppb	
17] trans-1,2-Dichloroethene	2.83	96	638	0.485	ppb	91
18) Diisopropyl ether (DIPE)	3.24	45	2175	0.483	ppb	91
19] 1,1-Dichloroethane	3.18	63	1227	0.503	ppb	95
20) Ethyl t-butyl ether (E...)	3.54	87	597	0.417	ppb	85
21) 2,2-Dichloropropane	3.67	77	862	0.564	ppb	85
22] cis-1,2-Dichloroethene	3.67	96	697	0.503	ppb	95
23) Chloroform	3.95	83	1303	0.565	ppb	90
24) 2-Butanone (MEK)	3.71	43	2554	2.888	ppb	90
25) t-Amyl methyl ether (T...)	4.50	73	1855	0.553	ppb	94
26] 1,2-Dichloroethane (EDC)	4.42	62	1025	0.513	ppb	98
27] 1,1,1-Trichloroethane	4.08	97	1059	0.498	ppb	96
28) 1,1-Dichloropropene	4.22	75	898	0.513	ppb	88
29) Carbon tetrachloride	4.21	117	804	0.453	ppb	73
31] Benzene	4.39	78	2435	0.504	ppb	98
32] Trichloroethene	4.93	95	753	0.493	ppb	95
33) 1,2-Dichloropropane	5.13	63	806	0.563	ppb	# 91
34) Bromodichloromethane	5.37	83	1011	0.585	ppb	96
36) Dibromomethane	5.23	93	451	0.552	ppb	82

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

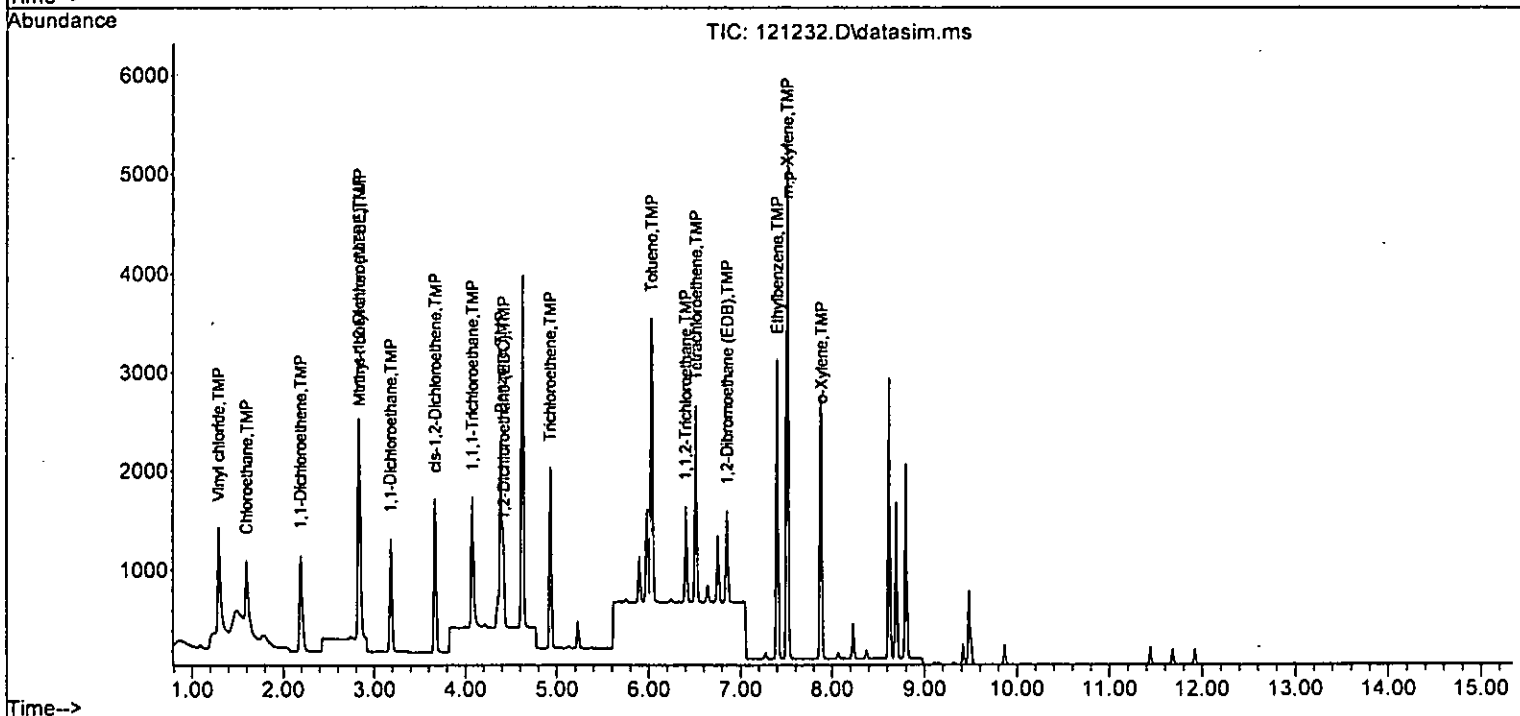
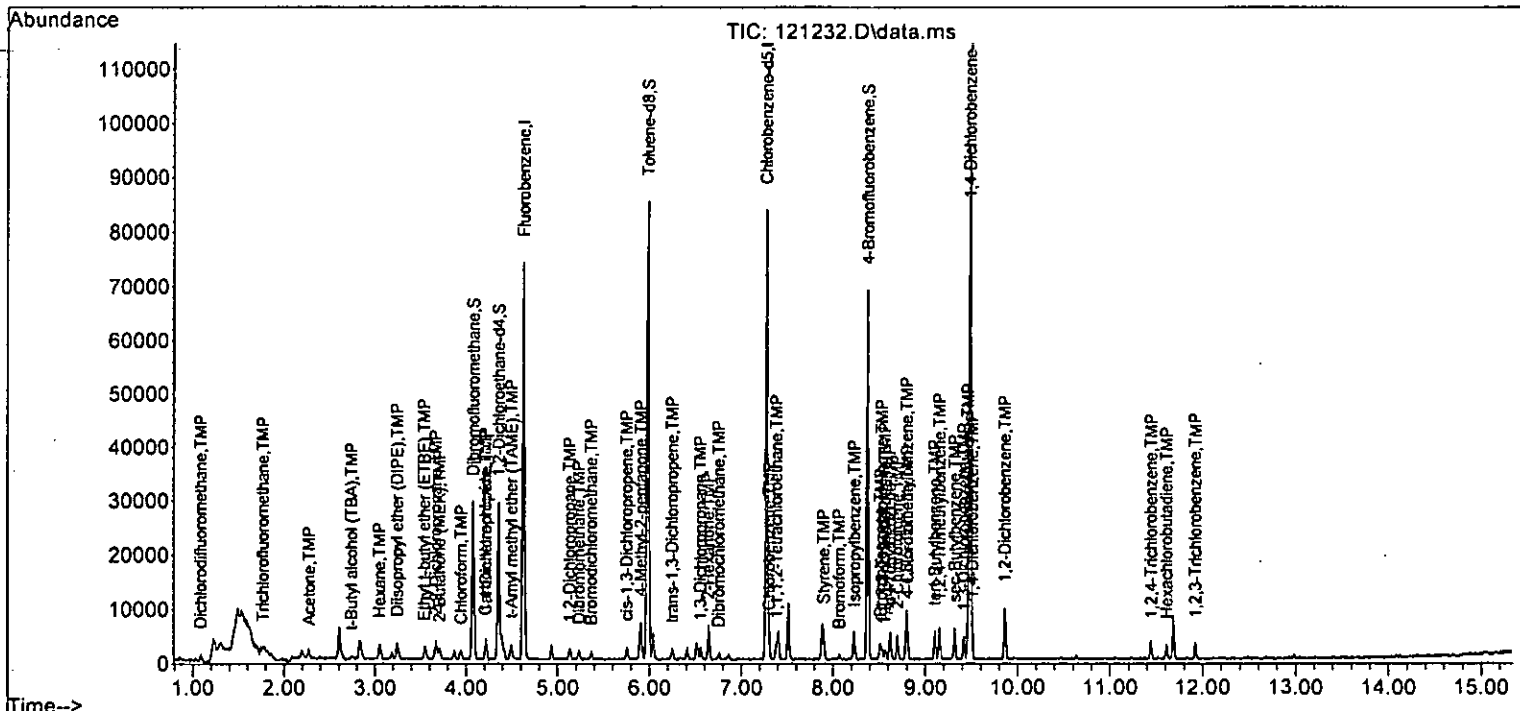
Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	623	2.469	ppb	# 80
38) cis-1,3-Dichloropropene	5.75	75	996	0.481	ppb	84
40) Toluene	6.03	92	1644	0.504	ppb	90
41) trans-1,3-Dichloropropene	6.25	75	797	0.433	ppb	83
42) 1,1,2-Trichloroethane	6.40	83	497	0.495	ppb	98
43) 2-Hexanone	6.64	43	3552	2.784	ppb	89
44) 1,3-Dichloropropane	6.55	76	900	0.504	ppb	86
45) Tetrachloroethene	6.51	164	671	0.515	ppb	98
46) Dibromochloromethane	6.75	129	628	0.467	ppb	82
47) 1,2-Dibromoethane (EDB)	6.85	107	628	0.504	ppb	99
48) Chlorobenzene	7.30	112	1716	0.488	ppb	95
49) Ethylbenzene	7.40	91	3142	0.513	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	653	0.516	ppb	87
51) m,p-Xylene	7.51	106	2398	1.038	ppb	# 67
52) o-Xylene	7.88	106	1181	0.522	ppb	97
53) Styrene	7.90	104	1701	0.460	ppb	84
54) Isopropylbenzene	8.23	105	2966	0.499	ppb	95
55) Bromoform	8.07	173	443	0.462	ppb	71
58) n-Propylbenzene	8.62	91	3485	0.494	ppb	97
59) Bromobenzene	8.52	156	790	0.477	ppb	96
60) 1,3,5-Trimethylbenzene	8.80	105	2657	0.506	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.53	83	752	0.502	ppb	82
62) 1,2,3-Trichloropropane	8.56	75	583	0.463	ppb	87
63) 2-Chlorotoluene	8.70	91	2036	0.488	ppb	86
64) 4-Chlorotoluene	8.81	91	2539	0.518	ppb	95
65) tert-Butylbenzene	9.10	119	2281	0.496	ppb	81
66) 1,2,4-Trimethylbenzene	9.15	105	2774	0.521	ppb	98
67) sec-Butylbenzene	9.32	105	3317	0.497	ppb	99
68) p-Isopropyltoluene	9.46	119	2845	0.495	ppb	95
69) 1,3-Dichlorobenzene	9.42	146	1537	0.499	ppb	95
70) 1,4-Dichlorobenzene	9.51	146	1588	0.506	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	1617	0.545	ppb	94
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.44	180	988	0.469	ppb	86
74) Hexachlorobutadiene	11.61	225	565	0.485	ppb	88
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	11.92	180	951	0.490	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

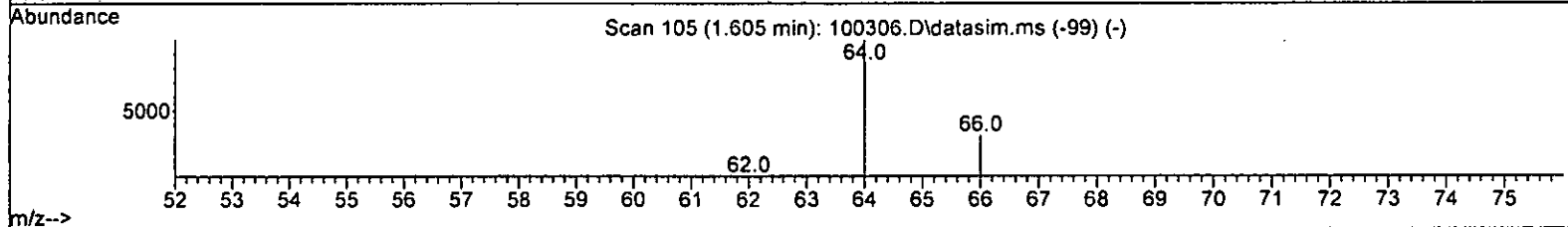
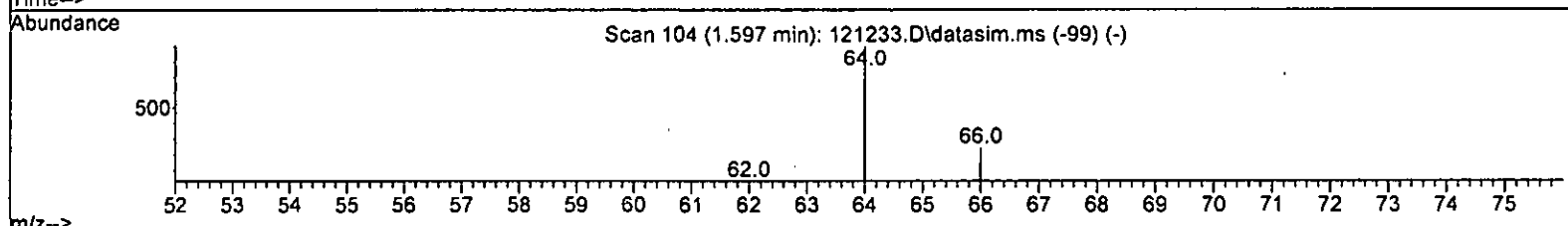
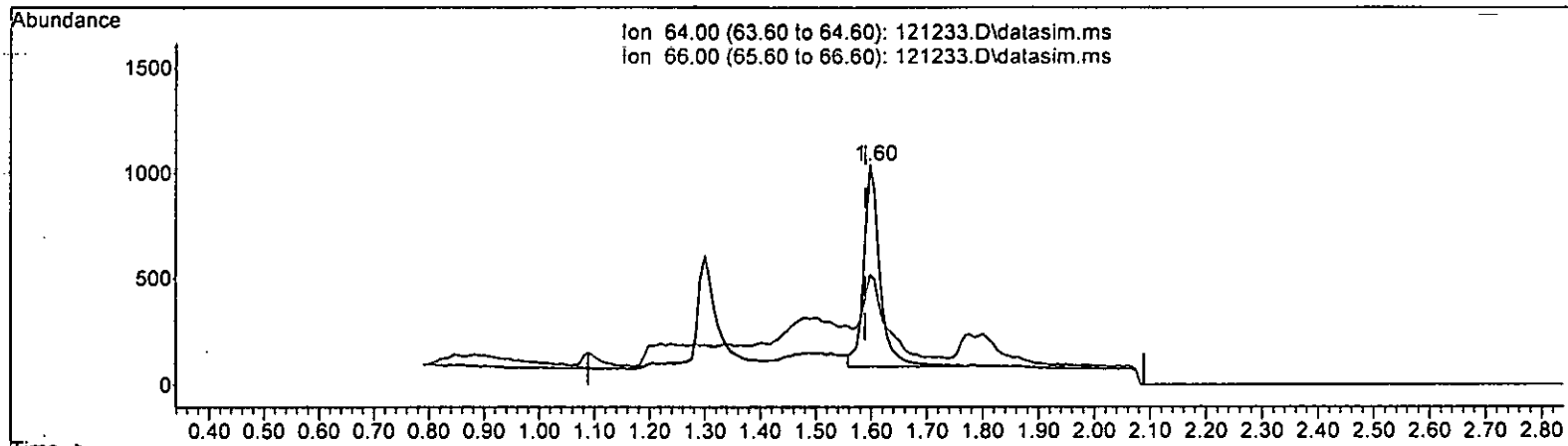
Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-2SK  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

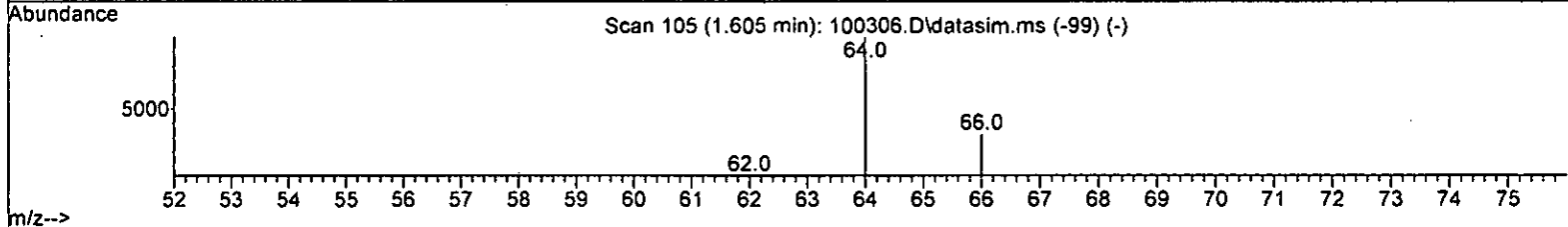
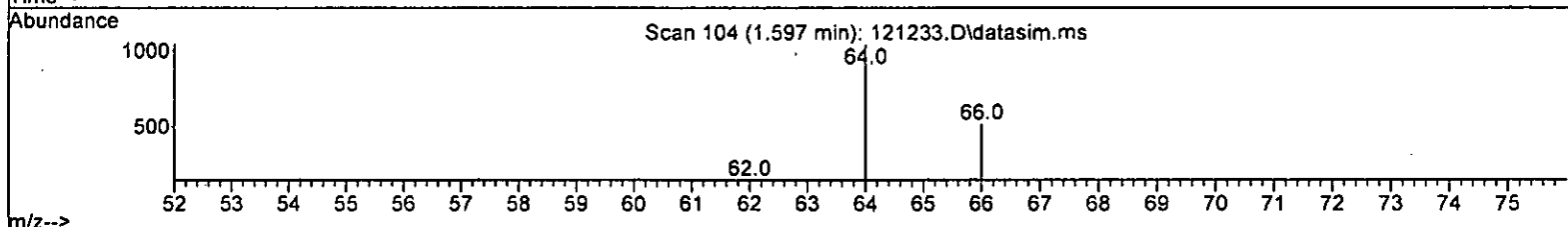
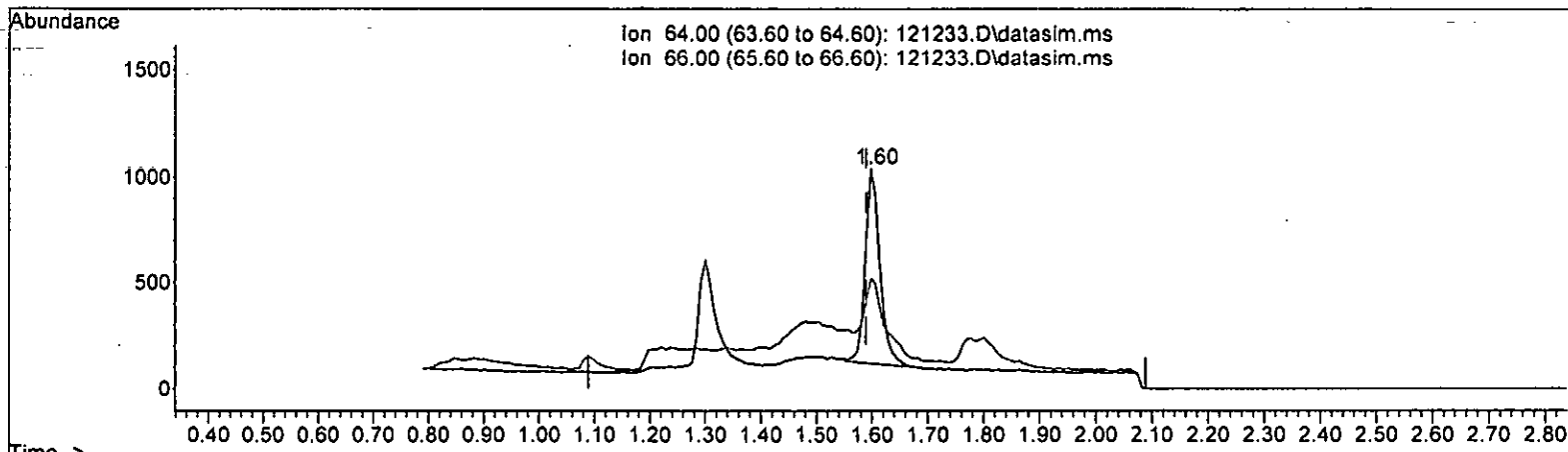
<del>(8) Chloroethane (TMP)</del>			
<del>1.597min (+ 0.008)</del>		<del>1.165 ppb</del>	
<del>response</del>	<del>1918</del>		
<del>Ion</del>	<del>Exp%</del>	<del>Act%</del>	
<del>64.00</del>	<del>100.00</del>	<del>100.00</del>	
<del>66.00</del>	<del>29.60</del>	<del>29.45</del>	
<del>0.00</del>	<del>0.00</del>	<del>0.00</del>	
<del>0.00</del>	<del>0.00</del>	<del>0.00</del>	

*Mis ID*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

(8) Chloroethane (TMP)

1.597min (+ 0.008) 1.018 ppb m

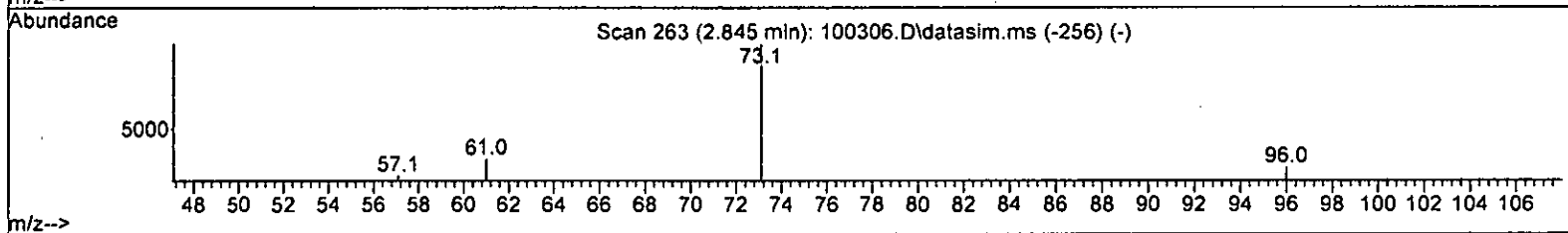
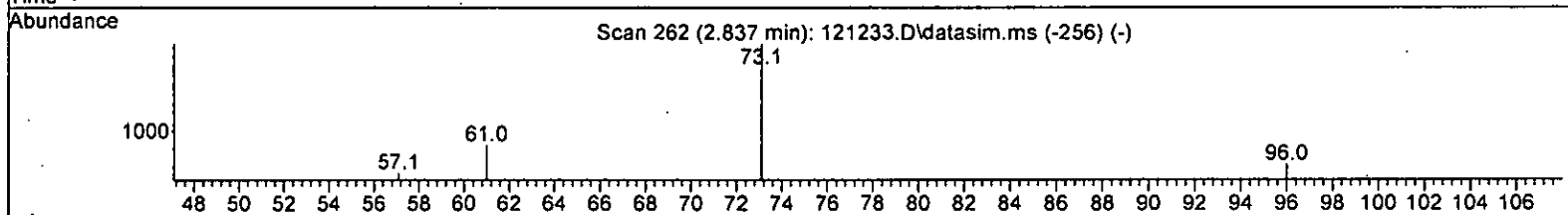
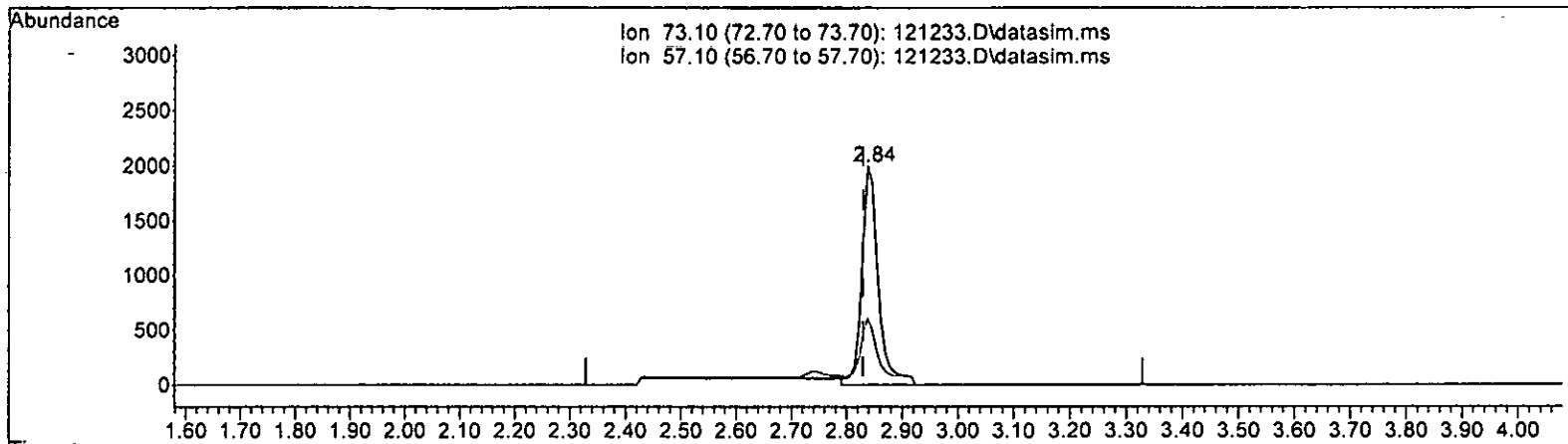
response	1676		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	29.60	49.62	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (+ 0.008) 1/141 ppb

response	4094
Ion	Expt Act%
73.10	100.00 100.00
57.10	24.80 30.16
0.00	0.00 0.00
0.00	0.00 0.00

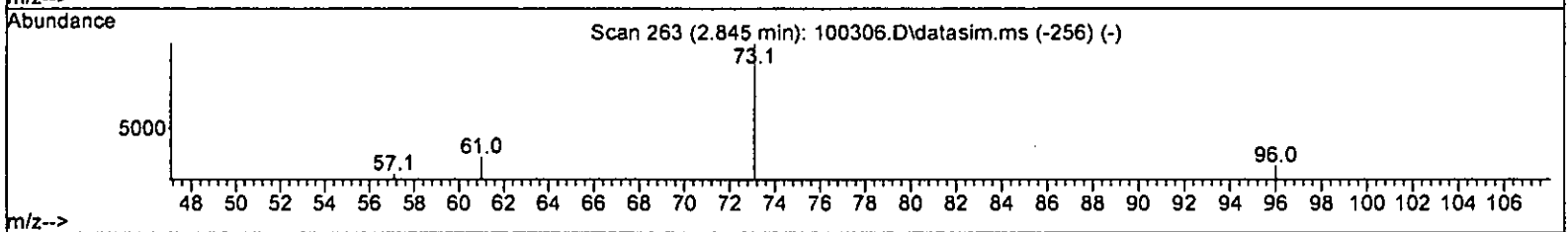
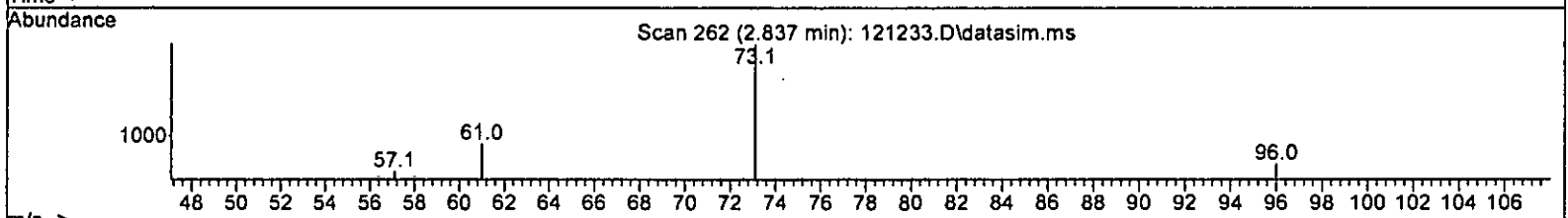
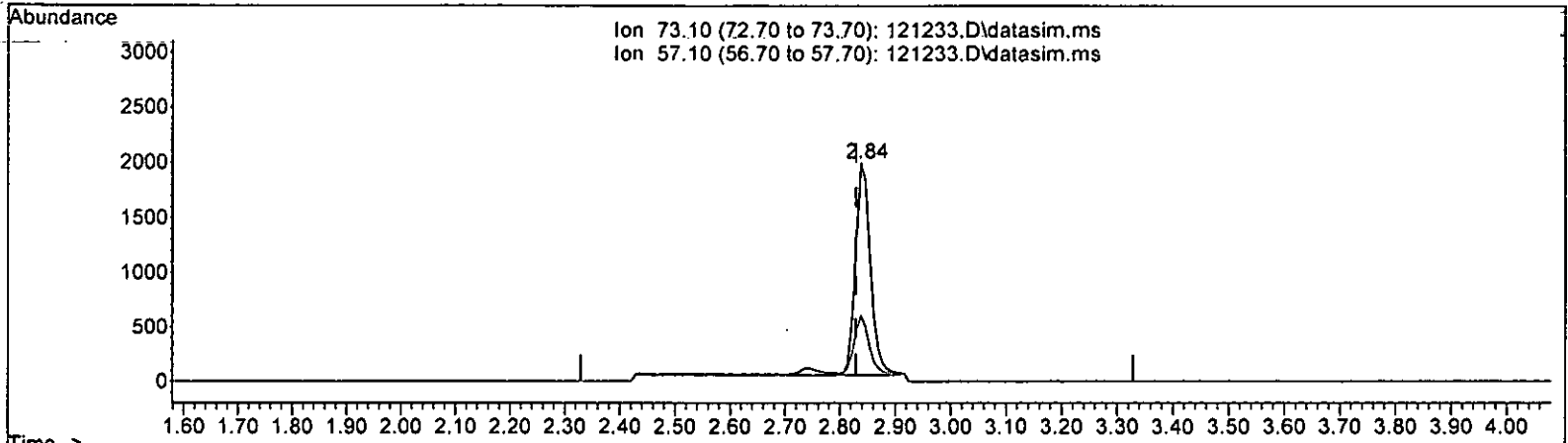
*12/15 LM*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 121233.D\data.ms

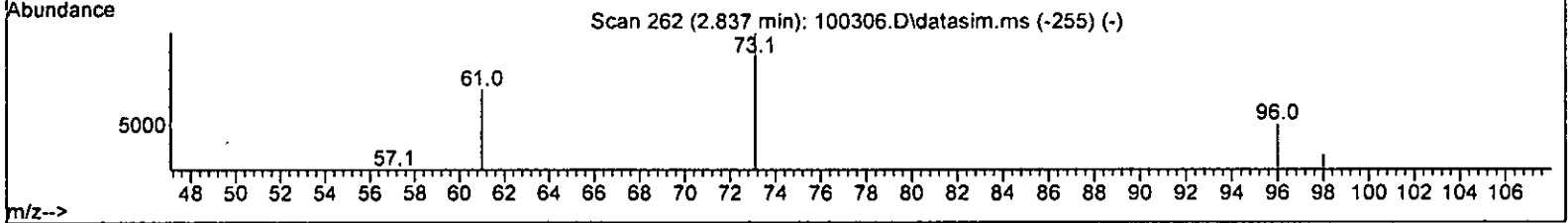
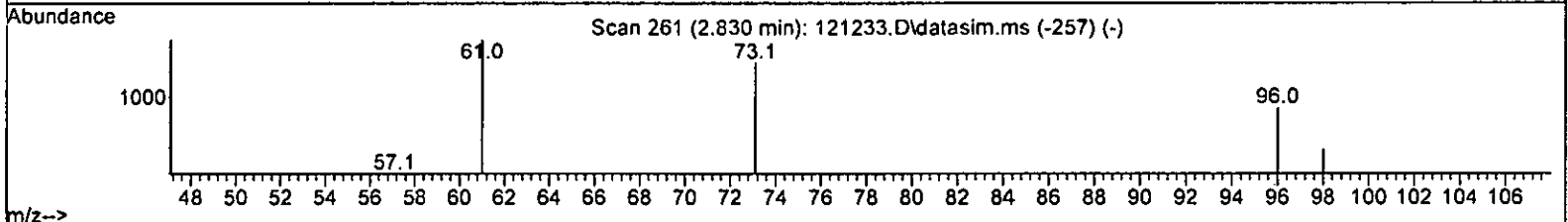
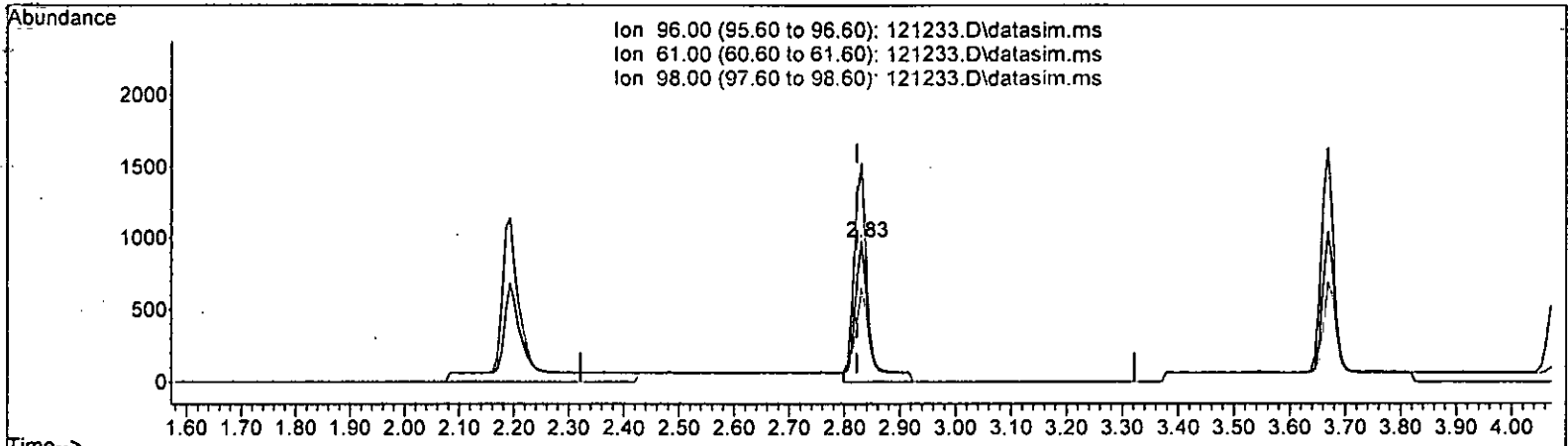
(16) Methyl t-butyl ether (MTBE) (TMP)  
 2.837min (+ 0.008) 1.013 ppb m

response	3634		
Ion	Exp%	Act%	
73.10	100.00	100.00	<i>17/15 Jan</i>
57.10	24.80	30.16	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.830min (+ 0.008) 1.311 ppb

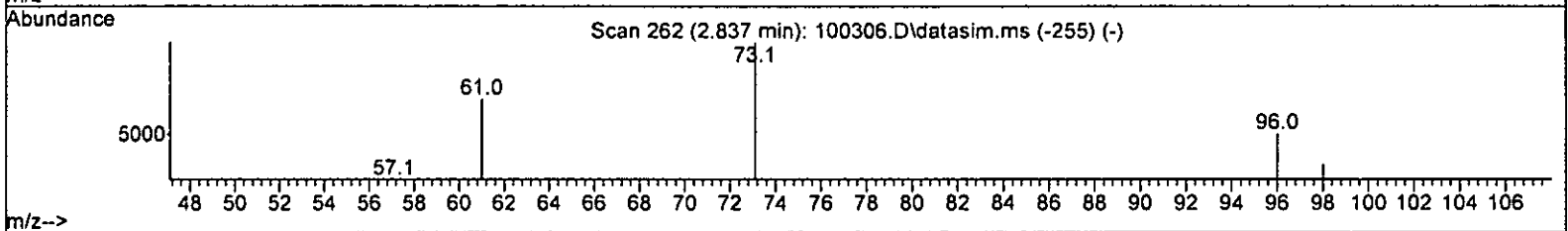
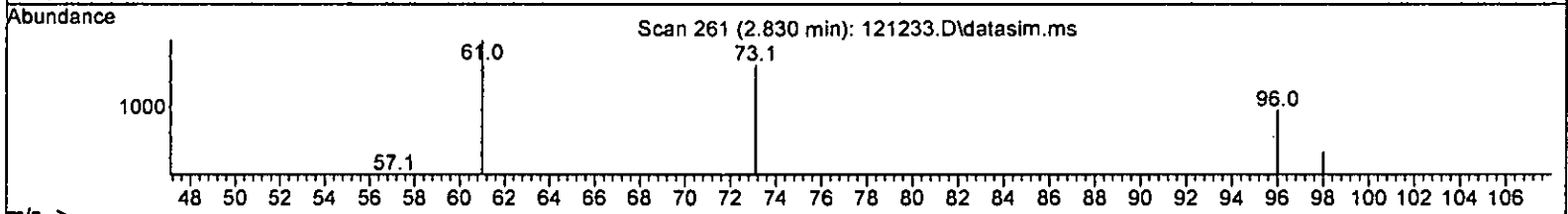
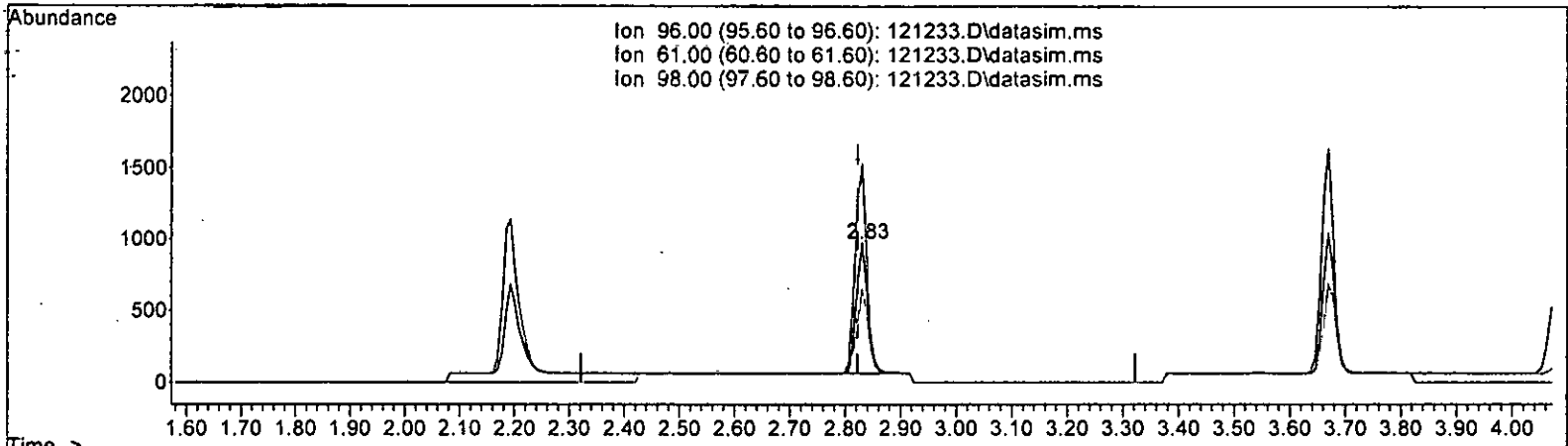
response	1747	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	171.80	156.57
98.00	61.00	66.12
0.00	0.00	0.00

*Handwritten note: 12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.830min (+ 0.008) 0.975 ppb m

response	1299		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	171.80	156.57	
98.00	61.00	66.12	
0.00	0.00	0.00	

*LM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.801	2.0	100	0.00
4 TMP Dichlorodifluoromethane	1.000	1.066	-6.6	100	0.00
5 TMP Chloromethane	1.000	1.087	-8.7	100	0.00
6 TMP Vinyl chloride	1.000	0.971	2.9	100	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP Chloroethane	1.000	1.018	-1.8	87	0.00
9 TMP Trichlorofluoromethane	1.000	0.916	8.4	95	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	5.000	5.627	-12.5	100	0.00
12 TMP 1,1-Dichloroethene	1.000	0.996	0.4	100	0.00
13 TMP Hexane	1.000	1.093	-9.3	100	0.00
14 TMP Methylene chloride	1.000	0.000	100.0#	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	5.000	5.536	-10.7	100	0.02
16 TMP Methyl t-butyl ether (MTBE)	1.000	1.013	-1.3	99	0.00
17 TMP trans-1,2-Dichloroethene	1.000	0.975	2.5	74	0.00
18 TMP Diisopropyl ether (DIPE)	1.000	0.990	1.0	100	0.00
19 TMP 1,1-Dichloroethane	1.000	1.026	-2.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	1.000	1.065	-6.5	100	0.00
21 TMP 2,2-Dichloropropane	1.000	1.022	-2.2	100	0.00
22 TMP cis-1,2-Dichloroethene	1.000	1.024	-2.4	100	0.00
23 TMP Chloroform	1.000	1.025	-2.5	100	0.00
24 TMP 2-Butanone (MEK)	5.000	5.403	-8.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	1.000	0.980	2.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	1.000	1.026	-2.6	100	0.00
27 TMP 1,1,1-Trichloroethane	1.000	1.014	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	1.000	1.042	-4.2	100	0.00
29 TMP Carbon tetrachloride	1.000	0.994	0.6	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.143	8.6	100	0.00
31 TMP Benzene	1.000	1.034	-3.4	100	0.00
32 TMP Trichloroethene	1.000	1.012	-1.2	100	0.00
33 TMP 1,2-Dichloropropane	1.000	1.001	-0.1	100	0.00
34 TMP Bromodichloromethane	1.000	0.910	9.0	100	0.00
35 S Toluene-d8	10.000	9.995	0.1	100	0.00
36 TMP Dibromomethane	1.000	0.956	4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	5.000	5.267	-5.3	100	0.00
38 TMP cis-1,3-Dichloropropene	1.000	0.906	9.4	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	1.000	1.021	-2.1	100	0.00
41 TMP trans-1,3-Dichloropropene	1.000	1.116	-11.6	100	0.00
42 TMP 1,1,2-Trichloroethane	1.000	1.038	-3.8	100	0.00
43 TMP 2-Hexanone	5.000	5.197	-3.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-2SK  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	1.000	1.072	-7.2	100	0.00
45 TMP Tetrachloroethene	1.000	1.027	-2.7	100	0.00
46 TMP Dibromochloromethane	1.000	0.967	3.3	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	1.000	1.029	-2.9	100	0.00
48 TMP Chlorobenzene	1.000	1.020	-2.0	100	0.00
49 TMP Ethylbenzene	1.000	1.031	-3.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	1.000	1.031	-3.1	100	0.00
51 TMP m,p-Xylene	2.000	2.075	-3.8	100	0.00
52 TMP o-Xylene	1.000	1.030	-3.0	100	0.00
53 TMP Styrene	1.000	1.055	-5.5	100	0.00
54 TMP Isopropylbenzene	1.000	1.008	-0.8	100	0.00
55 TMP Bromoform	1.000	1.022	-2.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.937	0.6	100	0.00
58 TMP n-Propylbenzene	1.000	1.092	-9.2	100	0.00
59 TMP Bromobenzene	1.000	1.058	-5.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.000	1.011	-1.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	1.000	1.072	-7.2	100	0.00
62 TMP 1,2,3-Trichloropropane	1.000	0.960	4.0	100	0.00
63 TMP 2-Chlorotoluene	1.000	1.009	-0.9	100	0.00
64 TMP 4-Chlorotoluene	1.000	0.999	0.1	100	0.00
65 TMP tert-Butylbenzene	1.000	1.034	-3.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.000	1.005	-0.5	100	0.00
67 TMP sec-Butylbenzene	1.000	1.013	-1.3	100	0.00
68 TMP p-Isopropyltoluene	1.000	1.011	-1.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.000	1.013	-1.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.000	1.068	-6.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.000	1.033	-3.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	1.000	0.994	0.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	1.000	0.997	0.3	100	0.00
74 TMP Hexachlorobutadiene	1.000	0.921	7.9	100	0.00
75 TMP Naphthalene	1.000	1.347	-34.7#	100	0.00
76 TMP 1,2,3-Trichlorobenzene	1.000	0.902	9.8	100	0.00

12/15 DM

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.259	1.9	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.734	-6.7	100	0.00
5 TMP Chloromethane	0.883	0.960	-8.7	100	0.00
6 TMP Vinyl chloride	0.732	0.710	3.0	100	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP Chloroethane	0.336	0.343	-2.1	87	0.00
9 TMP Trichlorofluoromethane	0.870	0.797	8.4	95	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.042	-13.5	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.240	0.0	100	0.00
13 TMP Hexane	0.434	0.474	-9.2	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.051	-10.9	100	0.02
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.743	-1.4	99	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.265	2.6	74	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.923	1.0	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.517	-2.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.315	-6.4	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.323	-2.2	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.293	-2.4	100	0.00
23 TMP Chloroform	0.477	0.489	-2.5	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.198	-8.2	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.680	2.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.424	-2.7	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.446	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.377	-4.1	100	0.00
29 TMP Carbon tetrachloride	0.367	0.365	0.5	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	100	0.00
31 TMP Benzene	0.999	1.033	-3.4	100	0.00
32 TMP Trichloroethene	0.316	0.319	-0.9	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.297	-0.3	100	0.00
34 TMP Bromodichloromethane	0.357	0.325	9.0	100	0.00
35 S Toluene-d8	0.960	0.960	0.0	100	0.00
36 TMP Dibromomethane	0.169	0.161	4.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.055	-5.8	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.388	9.6	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.876	-2.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.540	-11.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.274	-3.8	100	0.00
43 TMP 2-Hexanone	0.335	0.349	-4.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.504	-7.2	100	0.00
45 TMP Tetrachloroethene	0.342	0.351	-2.6	100	0.00
46 TMP Dibromochloromethane	0.354	0.342	3.4	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.337	-3.1	100	0.00
48 TMP Chlorobenzene	0.925	0.944	-2.1	100	0.00
49 TMP Ethylbenzene	1.611	1.661	-3.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.343	-3.0	100	0.00
51 TMP m,p-Xylene	0.607	0.630	-3.8	100	0.00
52 TMP o-Xylene	0.595	0.613	-3.0	100	0.00
53 TMP Styrene	0.973	1.026	-5.4	100	0.00
54 TMP Isopropylbenzene	1.564	1.577	-0.8	100	0.00
55 TMP Bromoform	0.252	0.258	-2.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.839	0.6	100	0.00
58 TMP n-Propylbenzene	3.281	3.582	-9.2	100	0.00
59 TMP Bromobenzene	0.770	0.815	-5.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.471	-1.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.748	-7.2	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.562	4.1	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.958	-0.9	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.279	0.1	100	0.00
65 TMP tert-Butylbenzene	2.141	2.214	-3.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.488	-0.5	100	0.00
67 TMP sec-Butylbenzene	3.103	3.143	-1.3	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.701	-1.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.453	-1.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.560	-6.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.426	-3.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.154	0.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.977	0.3	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.499	7.9	100	0.00
75 TMP Naphthalene	2.597	3.498	-34.7#	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.816	9.7	100	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	48931	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38342	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	20582	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12654	9.801	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.00%	
30) 1,2-Dichloroethane-d4	4.36	102	2699	9.143	ppb	0.00	
Spiked Amount	10.000	Range	79 - 128	Recovery	=	91.40%	
35) Toluene-d8	5.98	98	46954	9.995	ppb	0.00	
Spiked Amount	10.000	Range	84 - 121	Recovery	=	99.90%	
57) 4-Bromofluorobenzene	8.38	95	17267	9.937	ppb	0.00	
Spiked Amount	10.000	Range	84 - 116	Recovery	=	99.40%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	3590	1.066	ppb		87
5) Chloromethane	1.23	50	4697	1.087	ppb		96
6] Vinyl chloride	1.30	62	3475	0.971	ppb		94
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.60	64	1676m	1.018	ppb		
9) Trichlorofluoromethane	1.80	101	3899	0.916	ppb		76
10) 2-Propanol	2.40	45	331	No Calib			
11) Acetone	2.27	58	1025	5.627	ppb		98
12] 1,1-Dichloroethene	2.19	96	1172	0.996	ppb		92
13) Hexane	3.05	57	2319	1.093	ppb		94
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.75	59	1251	5.536	ppb		98
16] Methyl t-butyl ether (...)	2.84	73	3634m	1.013	ppb		
17] trans-1,2-Dichloroethene	2.83	96	1299m	0.975	ppb		
18) Diisopropyl ether (DIPE)	3.25	45	4515	0.990	ppb		98
19] 1,1-Dichloroethane	3.18	63	2531	1.026	ppb		96
20) Ethyl t-butyl ether (E...)	3.55	87	1543	1.065	ppb		84
21) 2,2-Dichloropropane	3.67	77	1580	1.022	ppb		98
22] cis-1,2-Dichloroethene	3.67	96	1435	1.024	ppb		97
23) Chloroform	3.94	83	2393	1.025	ppb		93
24) 2-Butanone (MEK)	3.71	43	4835	5.403	ppb		98
25) t-Amyl methyl ether (T...)	4.50	73	3327	0.980	ppb		96
26] 1,2-Dichloroethane (EDC)	4.42	62	2075	1.026	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	2183	1.014	ppb		97
28) 1,1-Dichloropropene	4.22	75	1846	1.042	ppb		86
29) Carbon tetrachloride	4.21	117	1786	0.994	ppb		89
31] Benzene	4.39	78	5055	1.034	ppb		98
32] Trichloroethene	4.93	95	1563	1.012	ppb		97
33) 1,2-Dichloropropane	5.14	63	1451	1.001	ppb	#	91
34) Bromodichloromethane	5.37	83	1591	0.910	ppb		90
36) Dibromomethane	5.22	93	790	0.956	ppb		81



Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

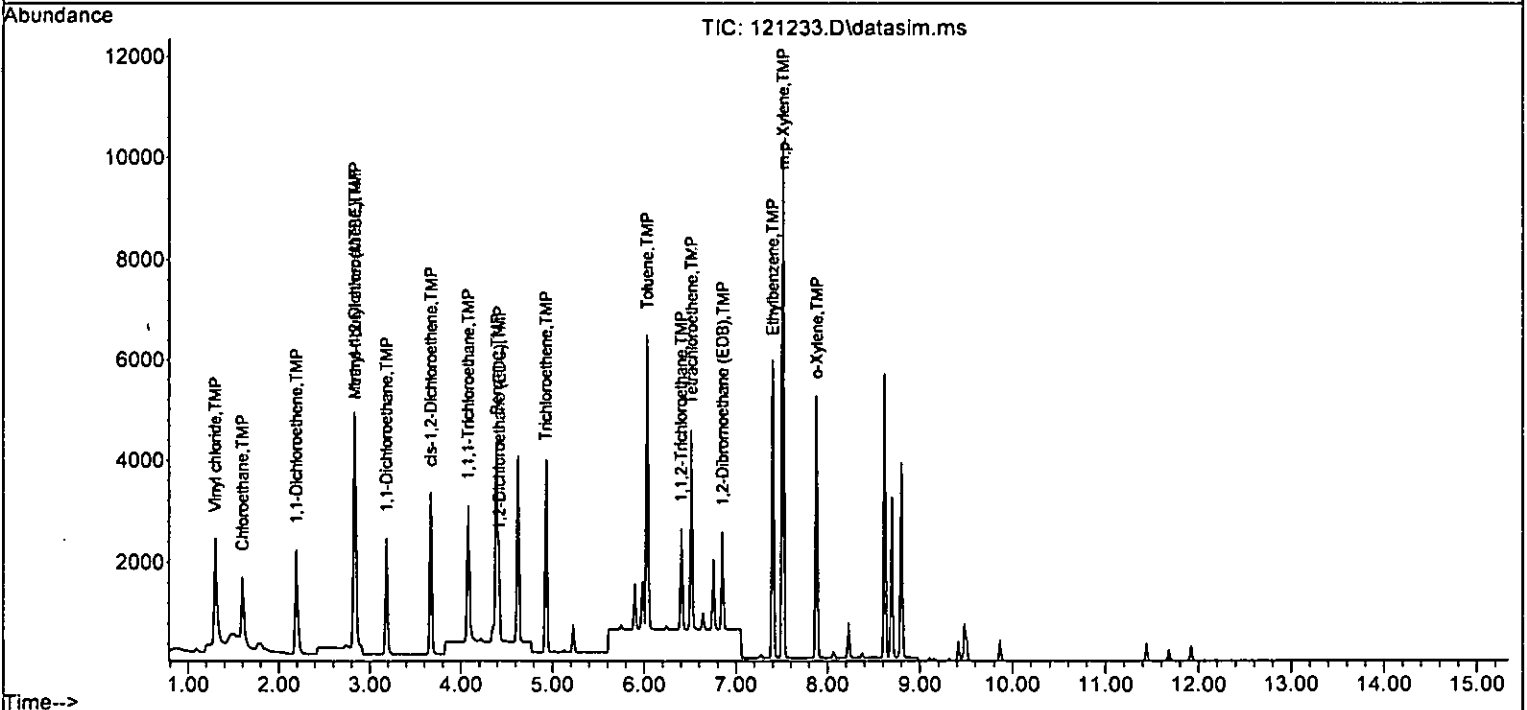
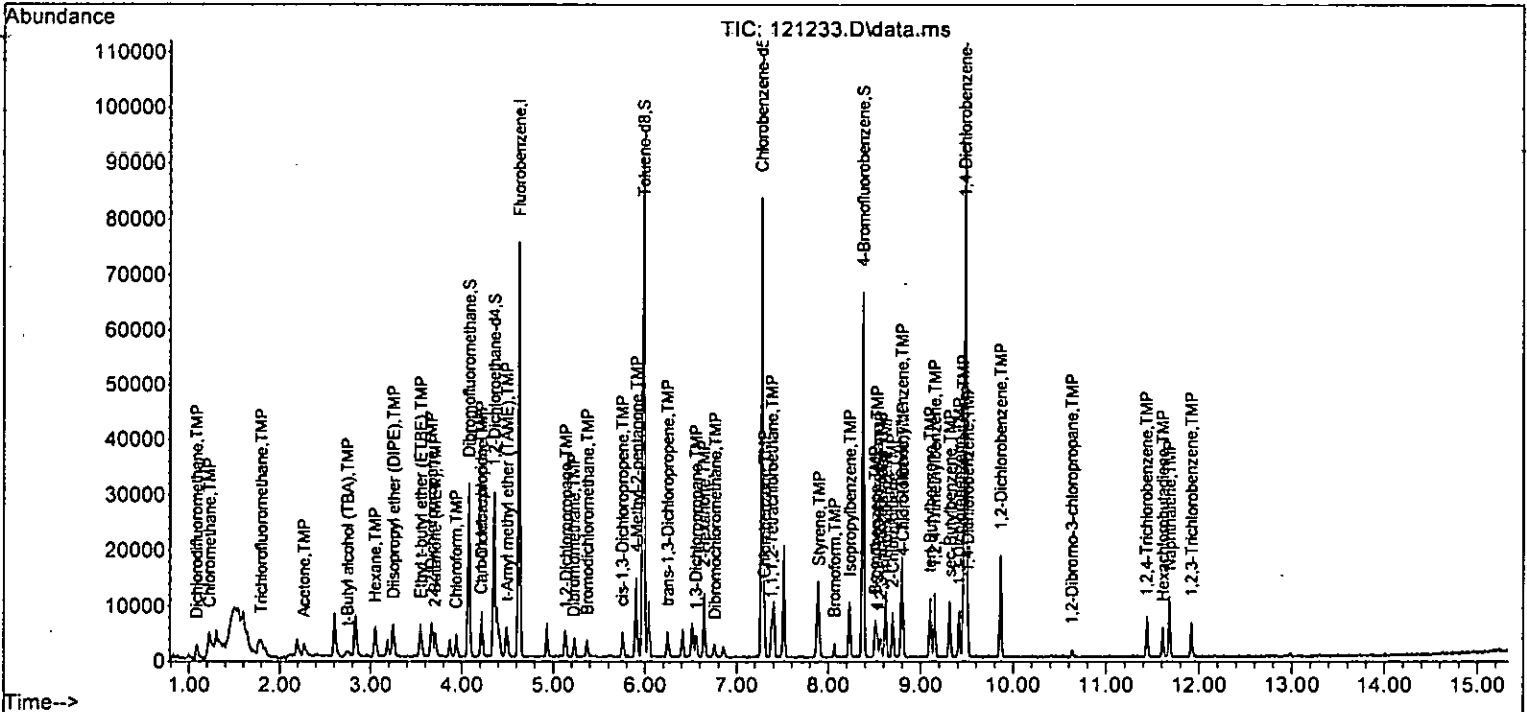
Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	1345	5.267	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	1900	0.906	ppb	93
40] Toluene	6.03	92	3357	1.021	ppb	89
41) trans-1,3-Dichloropropene	6.25	75	2070	1.116	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	1050	1.038	ppb	99
43) 2-Hexanone	6.64	43	6683	5.197	ppb	97
44) 1,3-Dichloropropane	6.55	76	1931	1.072	ppb	99
45] Tetrachloroethene	6.51	164	1347	1.027	ppb	99
46) Dibromochloromethane	6.76	129	1311	0.967	ppb	87
47] 1,2-Dibromoethane (EDB)	6.85	107	1292	1.029	ppb	99
48) Chlorobenzene	7.30	112	3619	1.020	ppb	97
49] Ethylbenzene	7.40	91	6368	1.031	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	1316	1.031	ppb	92
51] m,p-Xylene	7.52	106	4831	2.075	ppb	99
52] o-Xylene	7.88	106	2349	1.030	ppb	99
53) Styrene	7.90	104	3934	1.055	ppb	73
54) Isopropylbenzene	8.23	105	6046	1.008	ppb	98
55) Bromoform	8.07	173	988	1.022	ppb	86
58) n-Propylbenzene	8.63	91	7373	1.092	ppb	98
59) Bromobenzene	8.51	156	1678	1.058	ppb	90
60) 1,3,5-Trimethylbenzene	8.80	105	5085	1.011	ppb	87
61) 1,1,2,2-Tetrachloroethane	8.53	83	1540	1.072	ppb	81
62) 1,2,3-Trichloropropane	8.57	75	1157	0.960	ppb	80
63) 2-Chlorotoluene	8.70	91	4030	1.009	ppb	93
64) 4-Chlorotoluene	8.81	91	4690	0.999	ppb	98
65) tert-Butylbenzene	9.10	119	4557	1.034	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	5120	1.005	ppb	98
67) sec-Butylbenzene	9.32	105	6469	1.013	ppb	99
68) p-Isopropyltoluene	9.46	119	5560	1.011	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	2990	1.013	ppb	94
70) 1,4-Dichlorobenzene	9.51	146	3210	1.068	ppb	95
71) 1,2-Dichlorobenzene	9.86	146	2935	1.033	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.63	75	317	0.994	ppb #	56
73) 1,2,4-Trichlorobenzene	11.44	180	2010	0.997	ppb	91
74) Hexachlorobutadiene	11.61	225	1027	0.921	ppb	93
75) Naphthalene	11.68	128	7199	1.347	ppb	97
76) 1,2,3-Trichlorobenzene	11.92	180	1679	0.902	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

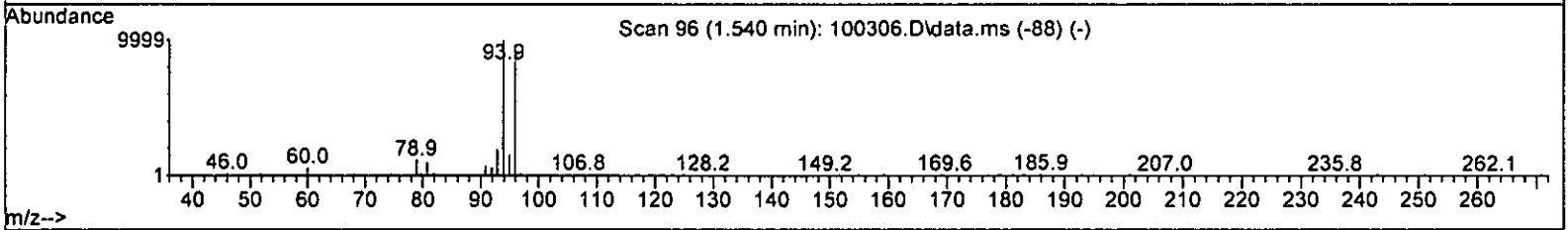
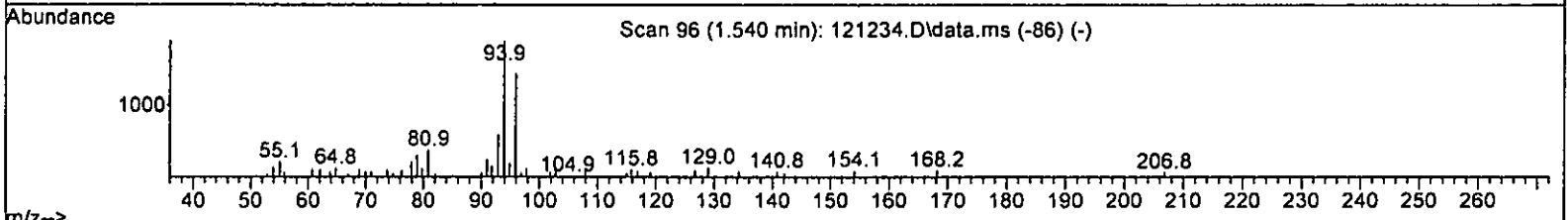
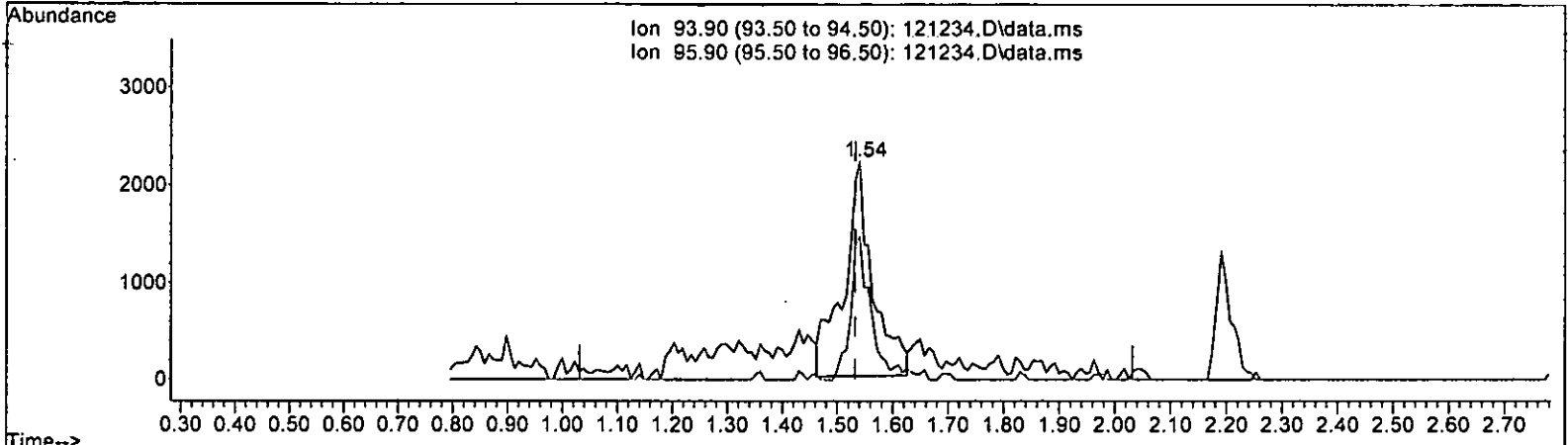
Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

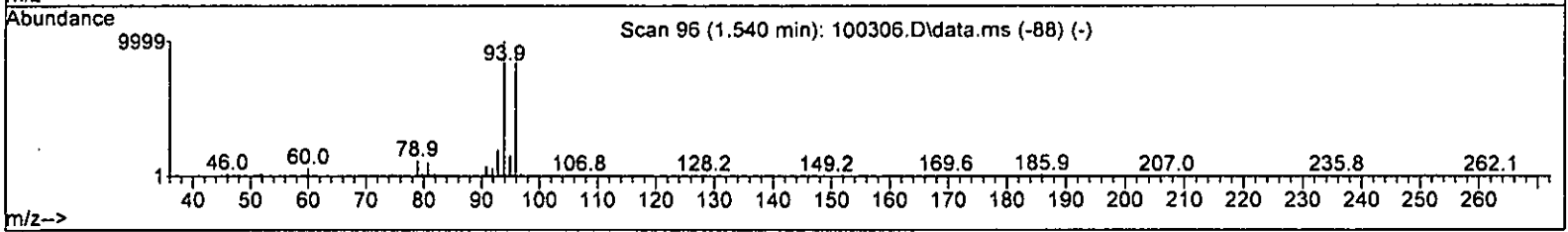
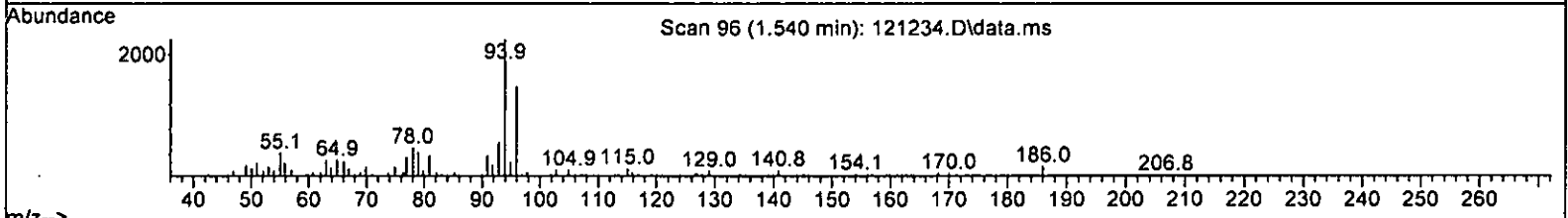
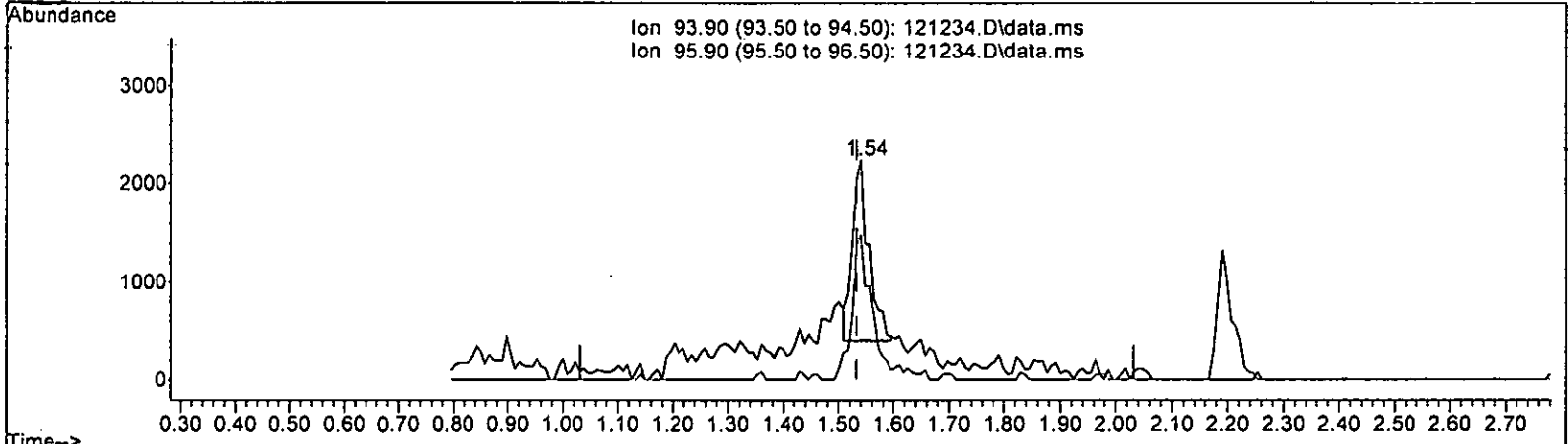
<del>(7) Bromomethane (TMP)</del>		
1.540min (+ 0.008)	4.516 ppb	
response	8121	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	59.20	72.34
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(7) Bromomethane (TMP)

1.540min (+ 0.008) 2.113 ppb m

response 3800

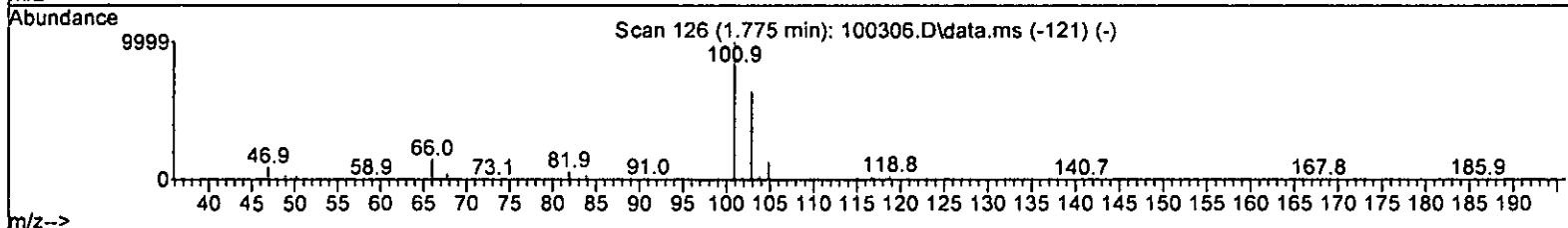
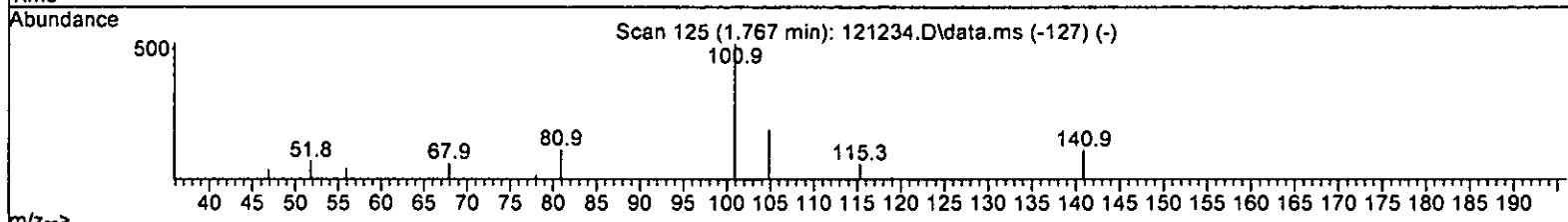
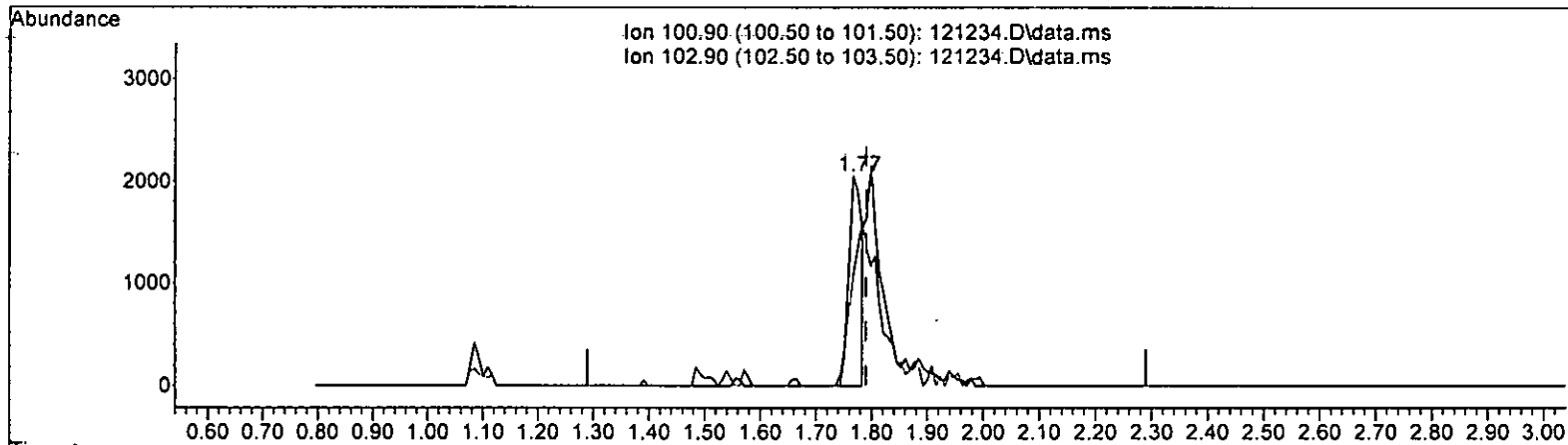
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	65.78
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 JLM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(9) Trichlorofluoromethane (TMP)

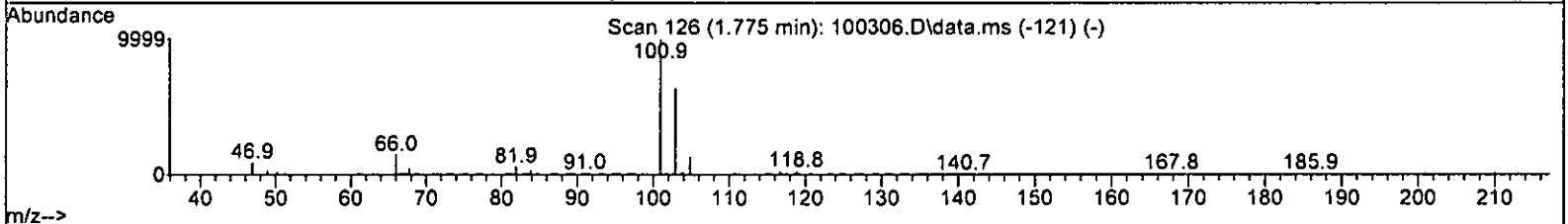
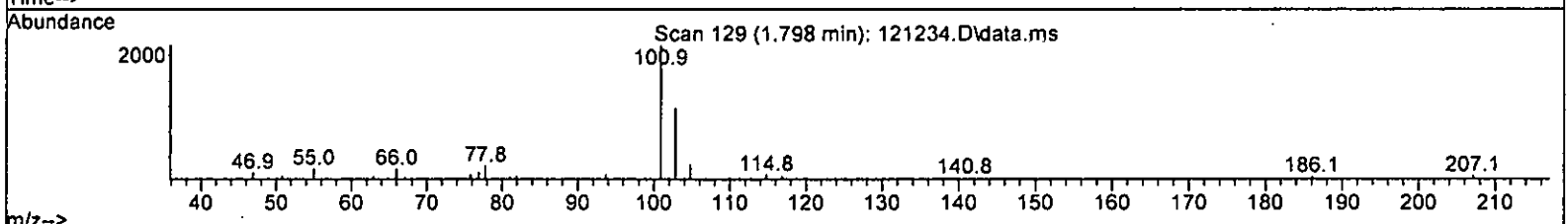
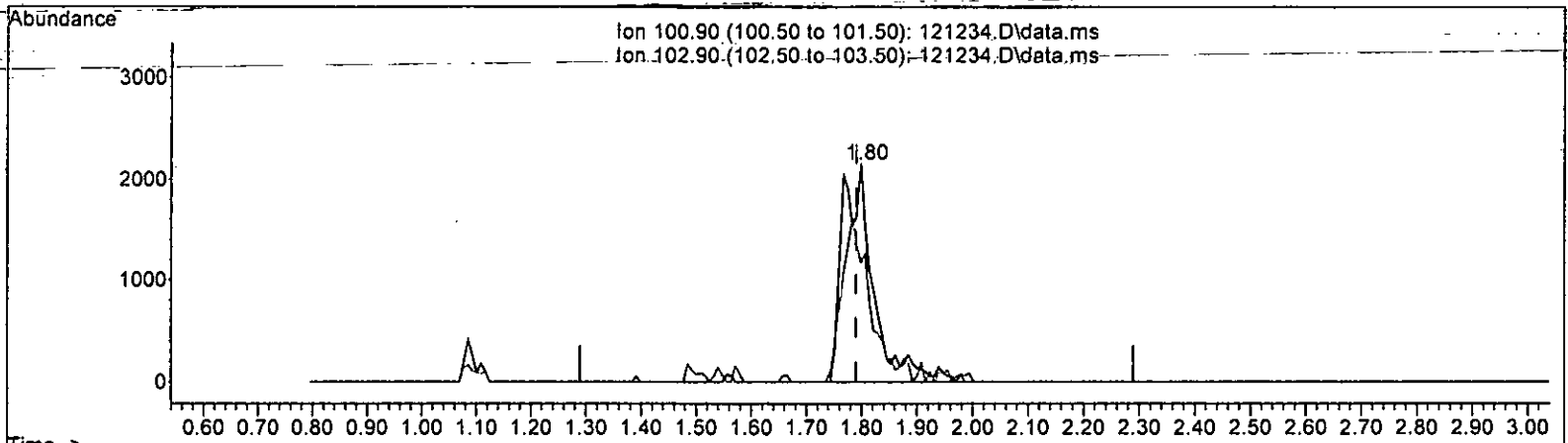
1.767min (-0.023) 0.758 ppb

response	3219		
Ion	Exp%	Act%	
100.90	100.00	100.00	<i>17.5 DM</i>
102.90	62.70	51.68	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.798min (+ 0.008) 1.945 ppb m

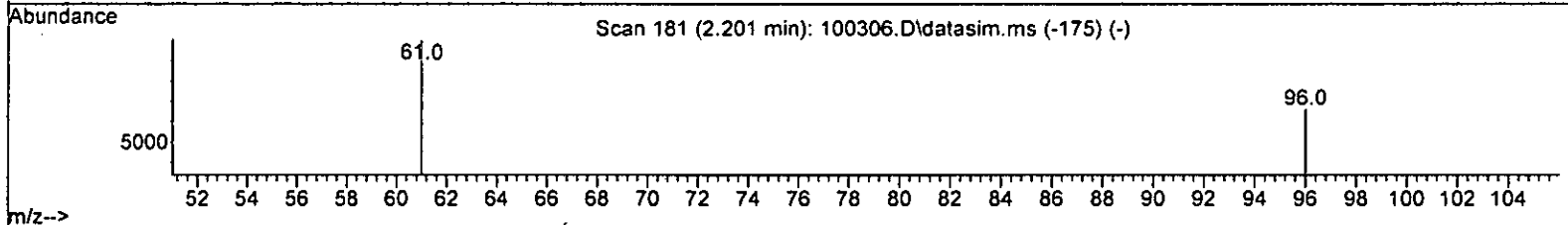
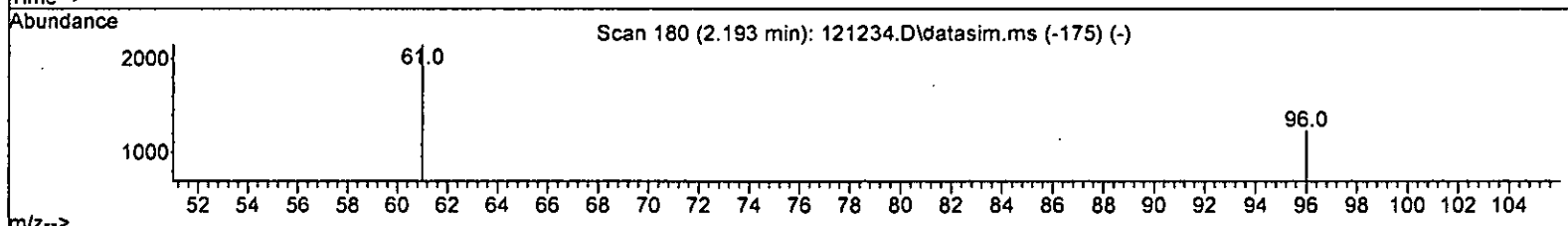
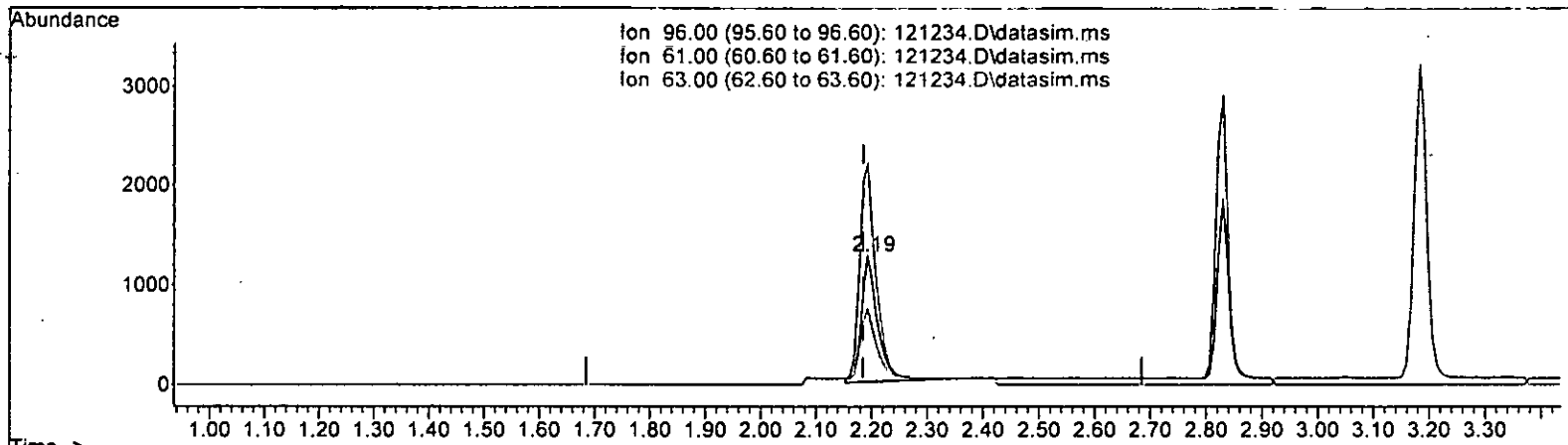
response	8259
Ion	Exp% Act%
100.90	100.00 100.00
102.90	62.70 54.14
0.00	0.00 0.00
0.00	0.00 0.00

12/15 PM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.193min (+ 0.008) 2.183 ppb

response 2562

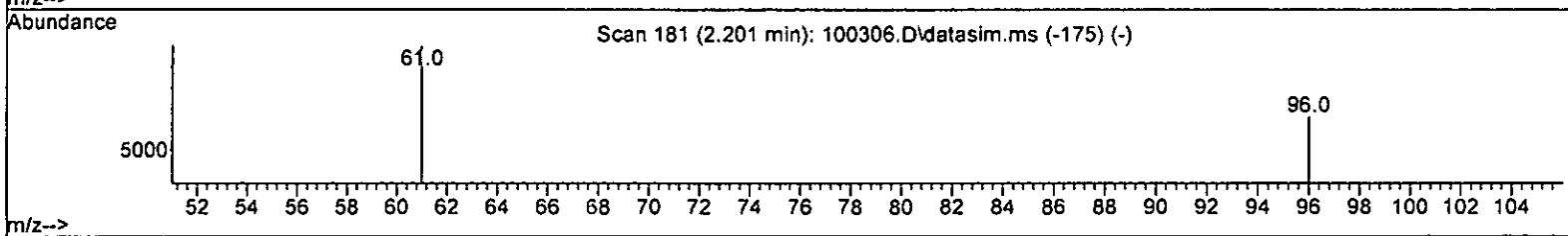
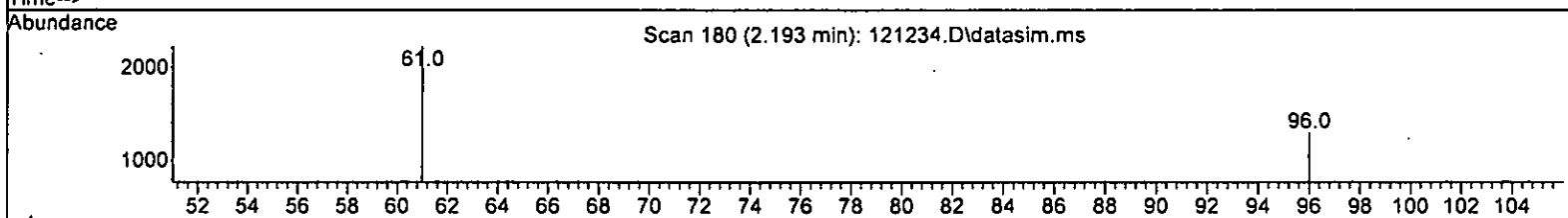
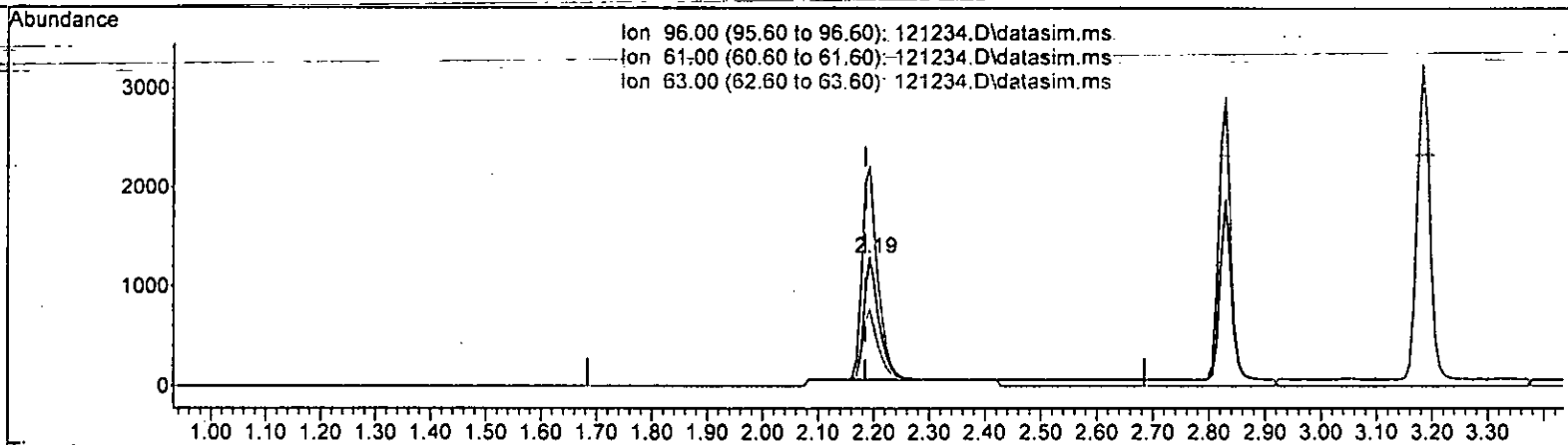
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	160.00	174.86
63.00	53.70	56.71
0.00	0.00	0.00

*17/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.193min (+ 0.008) 1.963 ppb m

response	2304		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	160.00	171.31	
63.00	53.70	59.16	
0.00	0.00	0.00	

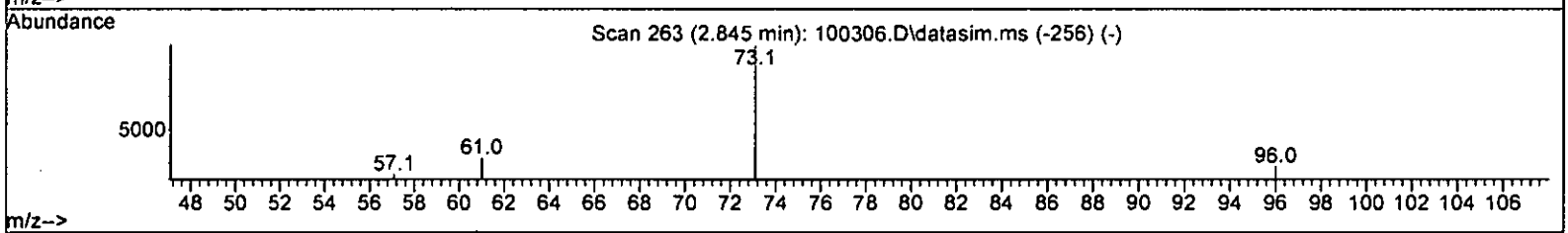
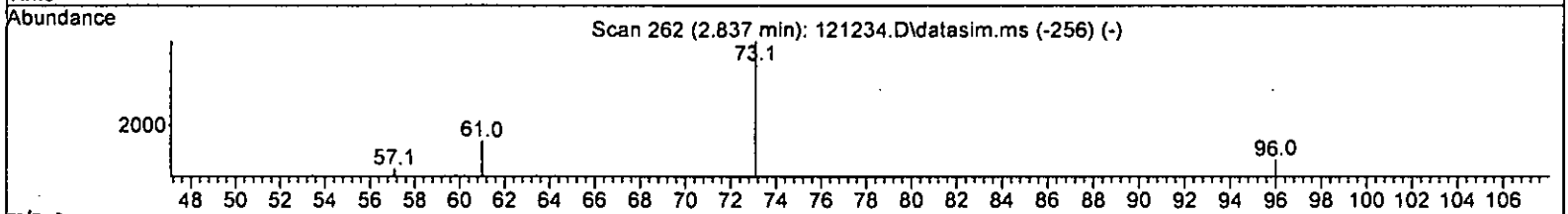
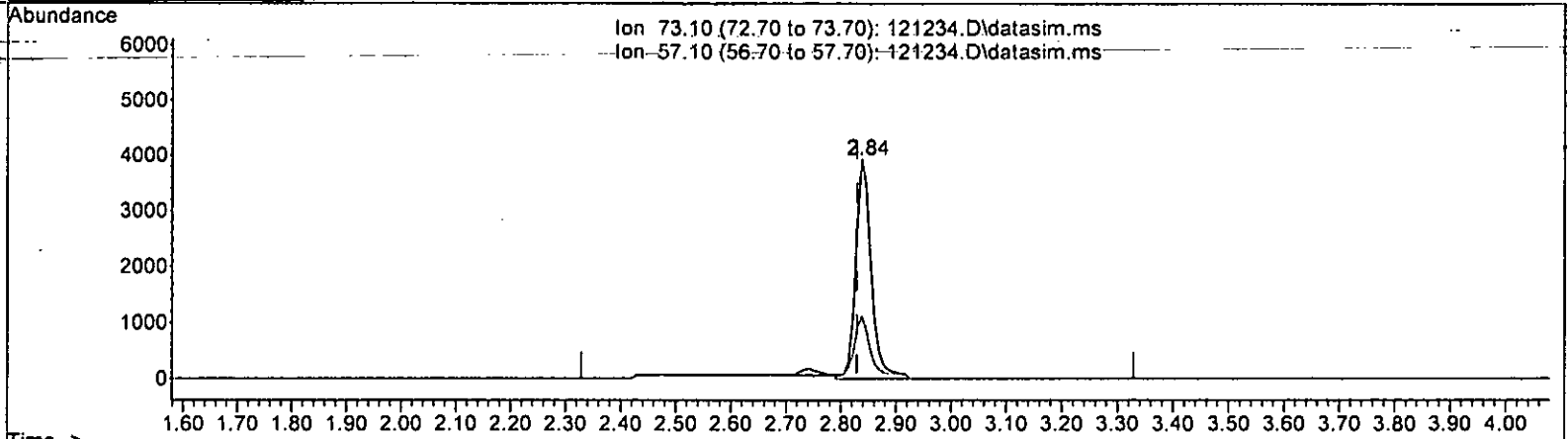
*12/15 LM*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (+ 0.008) 2.124 ppb

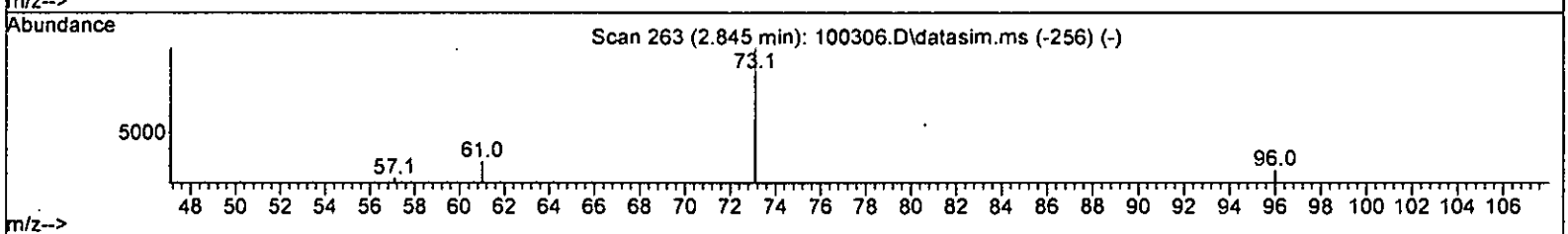
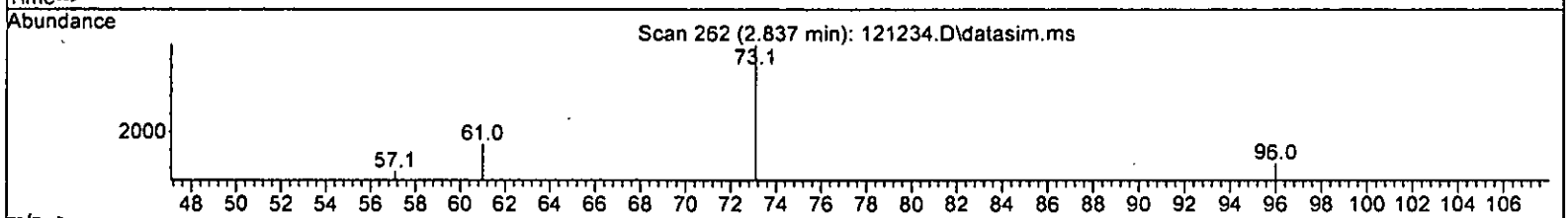
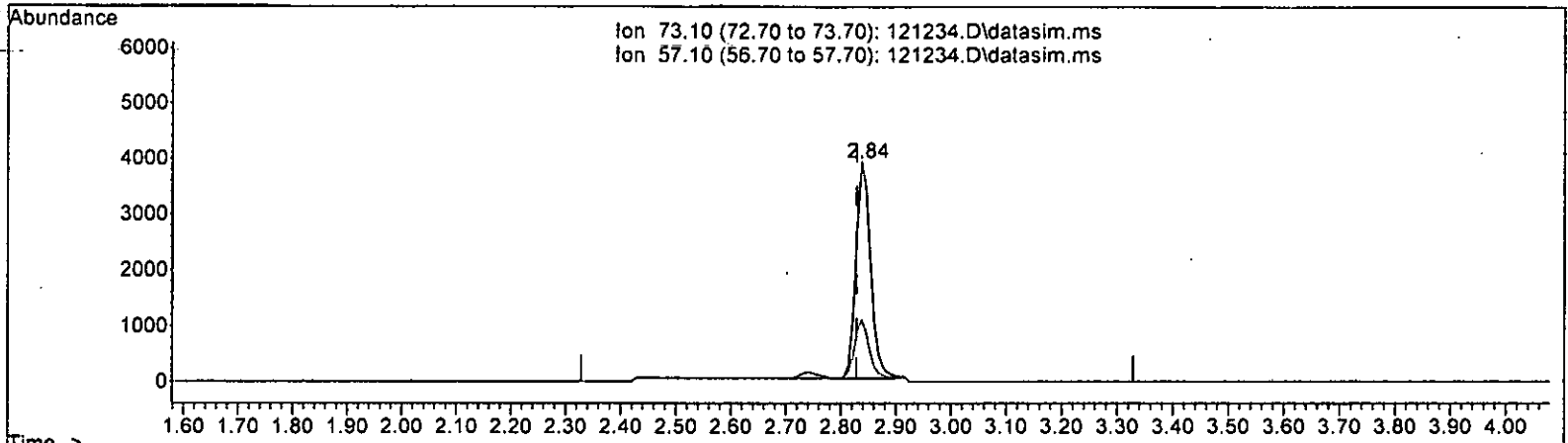
response	7637	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	24.80	28.28
0.00	0.00	0.00
0.00	0.00	0.00

12/15 LM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)  
 2.837min (+ 0.008) 2.008 ppb m

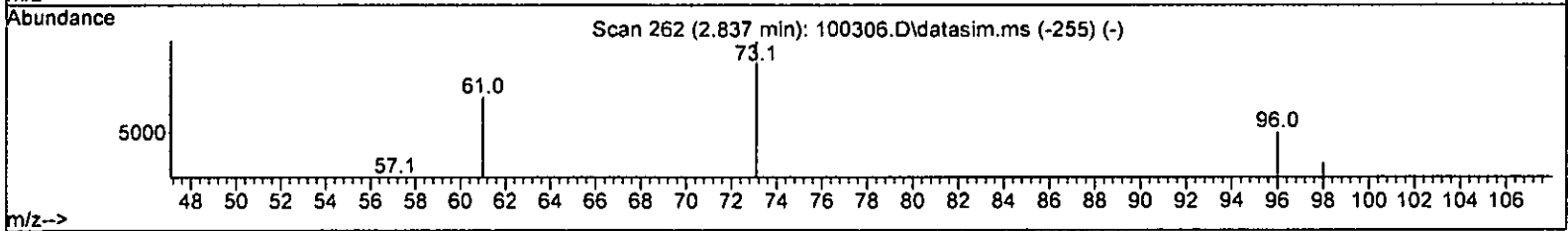
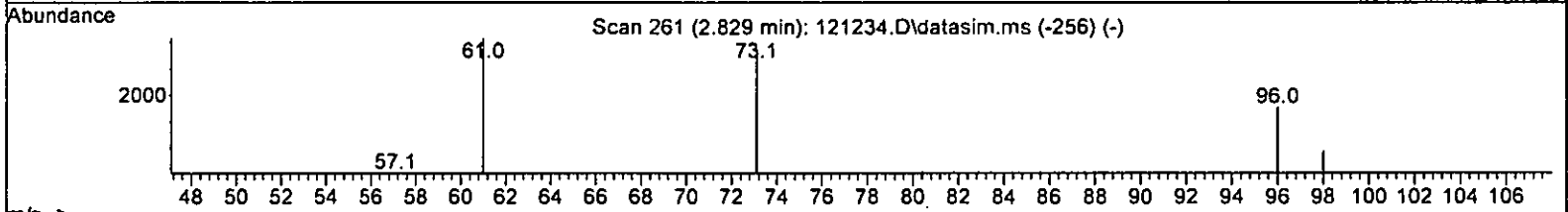
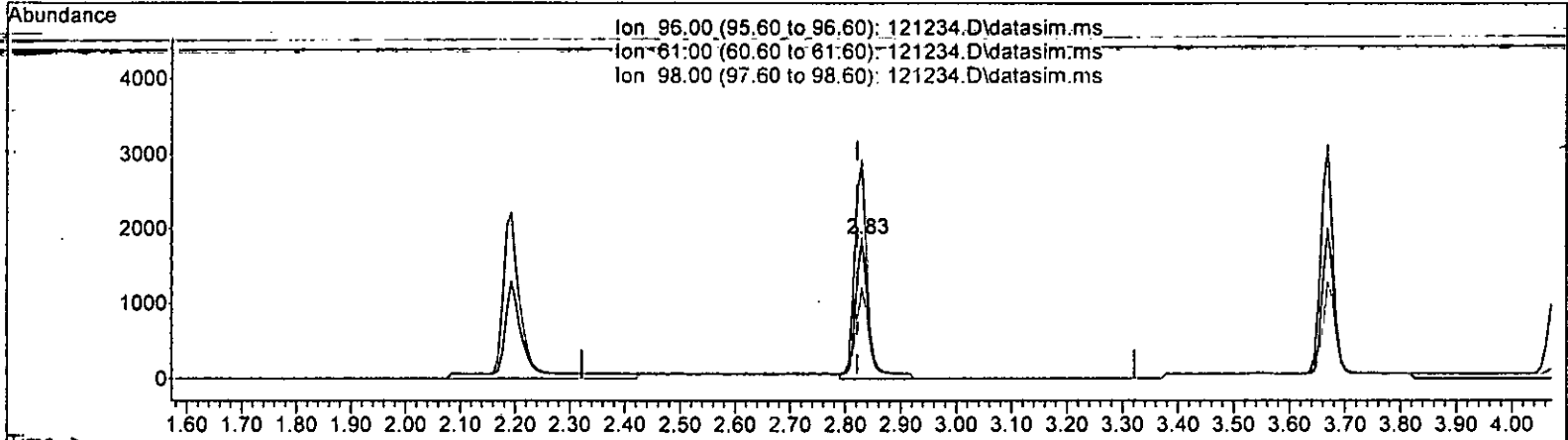
response	7187		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	24.80	28.28	
0.00	0.00	0.00	
0.00	0.00	0.00	

12/15 LM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.829min (+ 0.007) 2.284 ppb

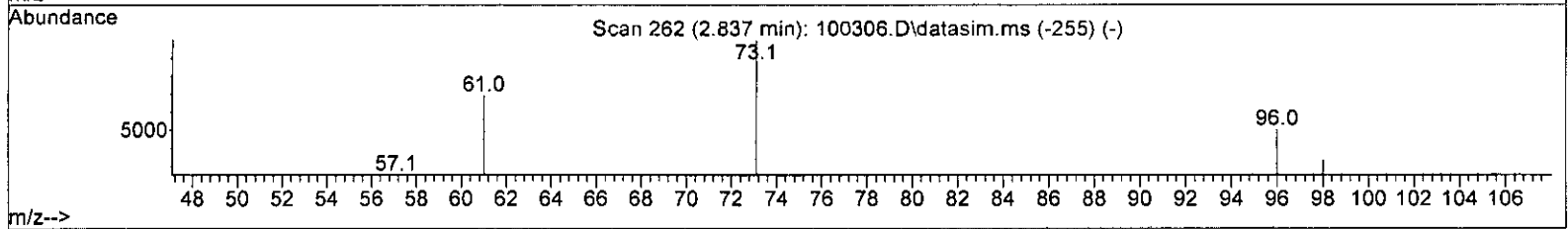
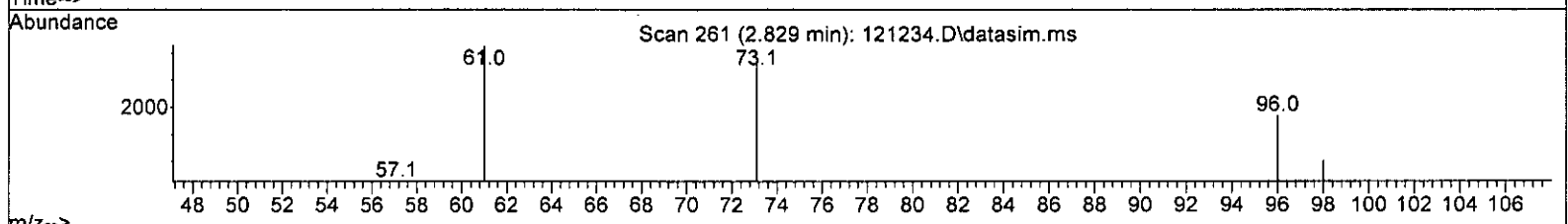
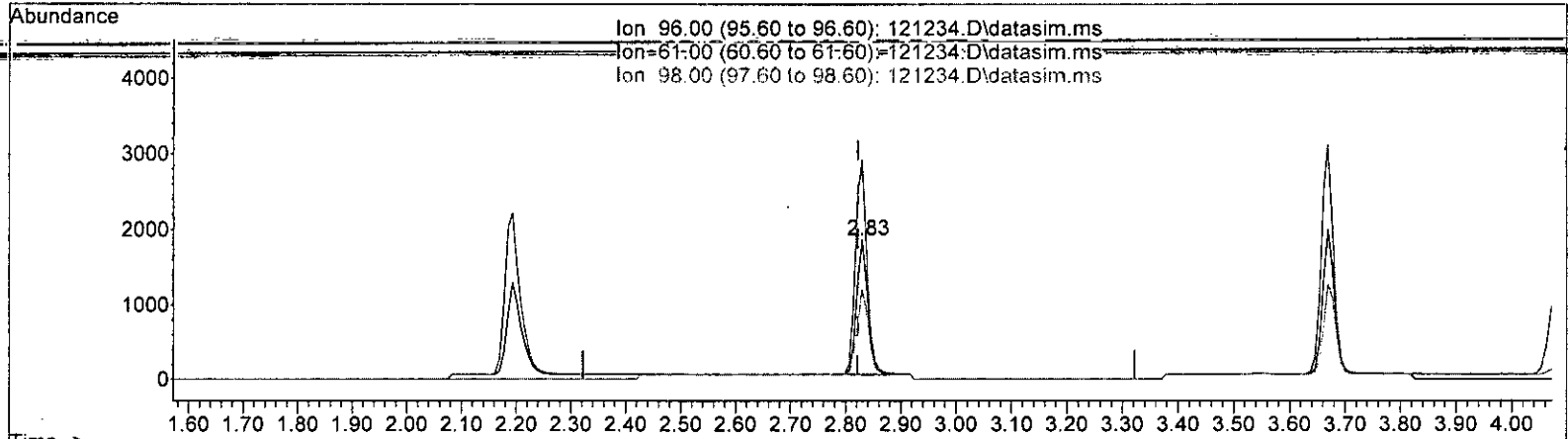
response	3036
Ion	Exp% Act%
96.00	100.00 100.00
61.00	171.80 156.11
98.00	61.00 64.20
0.00	0.00 0.00

*Handwritten note: 12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)  
 2.829min (+ 0.007) 1.929 ppb m

response	2564		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	171.80	156.11	
98.00	61.00	64.20	
0.00	0.00	0.00	

12/15 LM

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq.Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.02
3 S Dibromofluoromethane	10.000	9.729	2.7	100	0.00
4 TMP Dichlorodifluoromethane	2.000	1.962	1.9	100	0.00
5 TMP Chloromethane	2.000	2.167	-8.3	100	0.00
6 TMP Vinyl chloride	2.000	2.011	-0.6	105	0.00
7 TMP Bromomethane	2.000	2.113	-5.6	103	0.00
8 TMP Chloroethane	2.000	2.061	-3.0	111	0.00
9 TMP Trichlorofluoromethane	2.000	1.945	2.7	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	10.000	10.310	-3.1	100	0.00
12 TMP 1,1-Dichloroethene	2.000	1.963	1.8	90	0.00
13 TMP Hexane	2.000	2.075	-3.8	100	0.00
14 TMP Methylene chloride	2.000	0.000	100.0#	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	10.000	10.330	-3.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	2.000	2.008	-0.4	100	0.00
17 TMP trans-1,2-Dichloroethene	2.000	1.929	3.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	2.000	2.034	-1.7	100	0.00
19 TMP 1,1-Dichloroethane	2.000	2.024	-1.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	2.000	2.030	-1.5	100	0.00
21 TMP 2,2-Dichloropropane	2.000	1.949	2.5	100	0.00
22 TMP cis-1,2-Dichloroethene	2.000	2.015	-0.8	100	0.00
23 TMP Chloroform	2.000	2.041	-2.0	100	0.00
24 TMP 2-Butanone (MEK)	10.000	10.076	-0.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	2.000	2.053	-2.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	2.000	1.981	0.9	100	0.00
27 TMP 1,1,1-Trichloroethane	2.000	2.027	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	2.000	2.118	-5.9	100	0.00
29 TMP Carbon tetrachloride	2.000	2.026	-1.3	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.992	0.1	100	0.00
31 TMP Benzene	2.000	2.036	-1.8	100	0.00
32 TMP Trichloroethene	2.000	1.995	0.2	100	0.00
33 TMP 1,2-Dichloropropane	2.000	2.066	-3.3	100	0.00
34 TMP Bromodichloromethane	2.000	1.982	0.9	100	0.00
35 S Toluene-d8	10.000	9.870	1.3	100	0.00
36 TMP Dibromomethane	2.000	2.115	-5.8	100	0.00
37 TMP 4-Methyl-2-pentanone	10.000	11.014	-10.1	100	0.00
38 TMP cis-1,3-Dichloropropene	2.000	1.982	0.9	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	2.000	1.968	1.6	100	0.00
41 TMP trans-1,3-Dichloropropene	2.000	2.044	-2.2	100	0.00
42 TMP 1,1,2-Trichloroethane	2.000	1.998	0.1	100	0.00
43 TMP 2-Hexanone	10.000	10.669	-6.7	100	0.00

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	2.000	2.080	-4.0	100	0.00
45 TMP Tetrachloroethene	2.000	1.982	0.9	100	0.00
46 TMP Dibromochloromethane	2.000	2.130	-6.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	2.000	1.984	0.8	100	0.00
48 TMP Chlorobenzene	2.000	1.953	2.3	100	0.00
49 TMP Ethylbenzene	2.000	2.026	-1.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	2.000	1.972	1.4	100	0.00
51 TMP m,p-Xylene	4.000	4.067	-1.7	100	0.00
52 TMP o-Xylene	2.000	2.028	-1.4	100	0.00
53 TMP Styrene	2.000	2.024	-1.2	100	0.00
54 TMP Isopropylbenzene	2.000	2.004	-0.2	100	0.00
55 TMP Bromoform	2.000	1.886	5.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.975	0.3	100	0.00
58 TMP n-Propylbenzene	2.000	1.984	0.8	100	0.00
59 TMP Bromobenzene	2.000	1.942	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.000	1.958	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	2.000	2.054	-2.7	100	0.00
62 TMP 1,2,3-Trichloropropane	2.000	1.904	4.8	100	0.00
63 TMP 2-Chlorotoluene	2.000	2.057	-2.8	100	0.00
64 TMP 4-Chlorotoluene	2.000	1.959	2.0	100	0.00
65 TMP tert-Butylbenzene	2.000	1.959	2.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.000	1.897	5.1	100	0.00
67 TMP sec-Butylbenzene	2.000	1.981	0.9	100	0.00
68 TMP p-Isopropyltoluene	2.000	1.984	0.8	100	0.00
69 TMP 1,3-Dichlorobenzene	2.000	2.058	-2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	2.000	1.990	0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	2.000	1.973	1.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	2.000	2.042	-2.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	2.000	1.910	4.5	100	0.00
74 TMP Hexachlorobutadiene	2.000	1.874	6.3	100	0.00
75 TMP Naphthalene	2.000	2.054	-2.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	2.000	1.863	6.9	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.02
3 S Dibromofluoromethane	0.264	0.257	2.7	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.675	1.9	100	0.00
5 TMP Chloromethane	0.883	0.956	-8.3	100	0.00
6 TMP Vinyl chloride	0.732	0.736	-0.5	105	0.00
7 TMP Bromomethane	0.368	0.389	-5.7	103	0.00
8 TMP Chloroethane	0.336	0.347	-3.3	111	0.00
9 TMP Trichlorofluoromethane	0.870	0.846	2.8	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.038	-2.7	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.236	1.7	90	0.00
13 TMP Hexane	0.434	0.450	-3.7	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.048	-4.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.736	-0.4	100	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.263	3.3	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.948	-1.7	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.510	-1.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.300	-1.4	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.308	2.5	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.288	-0.7	100	0.00
23 TMP Chloroform	0.477	0.487	-2.1	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.184	-0.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.712	-2.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.409	1.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.446	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.384	-6.1	100	0.00
29 TMP Carbon tetrachloride	0.367	0.372	-1.4	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	0.999	1.017	-1.8	100	0.00
32 TMP Trichloroethene	0.316	0.315	0.3	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.306	-3.4	100	0.00
34 TMP Bromodichloromethane	0.357	0.354	0.8	100	0.00
35 S Toluene-d8	0.960	0.948	1.3	100	0.00
36 TMP Dibromomethane	0.169	0.179	-5.9	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.057	-9.6	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.425	0.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.844	1.6	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.494	-2.1	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.263	0.4	100	0.00
43 TMP 2-Hexanone	0.335	0.358	-6.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.488	-3.8	100	0.00
45 TMP Tetrachloroethene	0.342	0.339	0.9	100	0.00
46 TMP Dibromochloromethane	0.354	0.377	-6.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.325	0.6	100	0.00
48 TMP Chlorobenzene	0.925	0.903	2.4	100	0.00
49 TMP Ethylbenzene	1.611	1.632	-1.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.328	1.5	100	0.00
51 TMP m,p-Xylene	0.607	0.618	-1.8	100	0.00
52 TMP o-Xylene	0.595	0.603	-1.3	100	0.00
53 TMP Styrene	0.973	0.985	-1.2	100	0.00
54 TMP Isopropylbenzene	1.564	1.567	-0.2	100	0.00
55 TMP Bromoform	0.252	0.238	5.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.842	0.2	100	0.00
58 TMP n-Propylbenzene	3.281	3.255	0.8	100	0.00
59 TMP Bromobenzene	0.770	0.748	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.392	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.716	-2.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.558	4.8	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.995	-2.8	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.234	2.1	100	0.00
65 TMP tert-Butylbenzene	2.141	2.097	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.348	5.2	100	0.00
67 TMP sec-Butylbenzene	3.103	3.073	1.0	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.651	0.8	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.475	-2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.454	0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.361	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.158	-1.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.936	4.5	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.507	6.5	100	0.00
75 TMP Naphthalene	2.597	2.667	-2.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.842	6.9	100	0.00

(#) = Out of Range

SPCC's out = 2 CCC's out = 0



Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	48822	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38734	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21530	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	12533	9.729	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.30%	
30) 1,2-Dichloroethane-d4	4.36	102	2943	9.992	ppb	0.00	
Spiked Amount	10.000	Range	79 - 128	Recovery	=	99.90%	
35) Toluene-d8	5.98	98	46265	9.870	ppb	0.00	
Spiked Amount	10.000	Range	84 - 121	Recovery	=	98.70%	
57) 4-Bromofluorobenzene	8.38	95	18132	9.975	ppb	0.00	
Spiked Amount	10.000	Range	84 - 116	Recovery	=	99.80%	
<b>Target Compounds</b>							
2) Ethanol	1.88	45	58	No Calib			Qvalue
4) Dichlorodifluoromethane	1.09	85	6595	1.962	ppb		88
5) Chloromethane	1.23	50	9338	2.167	ppb		93
6] Vinyl chloride	1.30	62	7184	2.011	ppb		92
7) Bromomethane	1.54	94	3800m	2.113	ppb		
8] Chloroethane	1.60	64	3386	2.061	ppb		98
9) Trichlorofluoromethane	1.80	101	8259m	1.945	ppb		
10) 2-Propanol	2.41	45	290	No Calib			
11) Acetone	2.26	58	1874	10.310	ppb		96
12] 1,1-Dichloroethene	2.19	96	2304m	1.963	ppb		
13) Hexane	3.05	57	4393	2.075	ppb		93
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.74	59	2329	10.330	ppb		97
16] Methyl t-butyl ether (...)	2.84	73	7187m	2.008	ppb		
17] trans-1,2-Dichloroethene	2.83	96	2564m	1.929	ppb		
18) Diisopropyl ether (DIPE)	3.25	45	9256	2.034	ppb		94
19] 1,1-Dichloroethane	3.18	63	4983	2.024	ppb		95
20) Ethyl t-butyl ether (E...)	3.55	87	2934	2.030	ppb	#	79
21) 2,2-Dichloropropane	3.67	77	3007	1.949	ppb		92
22] cis-1,2-Dichloroethene	3.67	96	2817	2.015	ppb		97
23) Chloroform	3.95	83	4754	2.041	ppb		97
24) 2-Butanone (MEK)	3.71	43	8997	10.076	ppb		98
25) t-Amyl methyl ether (T...)	4.50	73	6950	2.053	ppb		96
26] 1,2-Dichloroethane (EDC)	4.42	62	3998	1.981	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	4357	2.027	ppb		98
28) 1,1-Dichloropropene	4.22	75	3746	2.118	ppb		94
29) Carbon tetrachloride	4.21	117	3631	2.026	ppb		91
31] Benzene	4.39	78	9931	2.036	ppb		98
32] Trichloroethene	4.93	95	3074	1.995	ppb		96
33) 1,2-Dichloropropane	5.13	63	2989	2.066	ppb	#	91
34) Bromodichloromethane	5.37	83	3458	1.982	ppb		89
36) Dibromomethane	5.23	93	1744	2.115	ppb		94

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

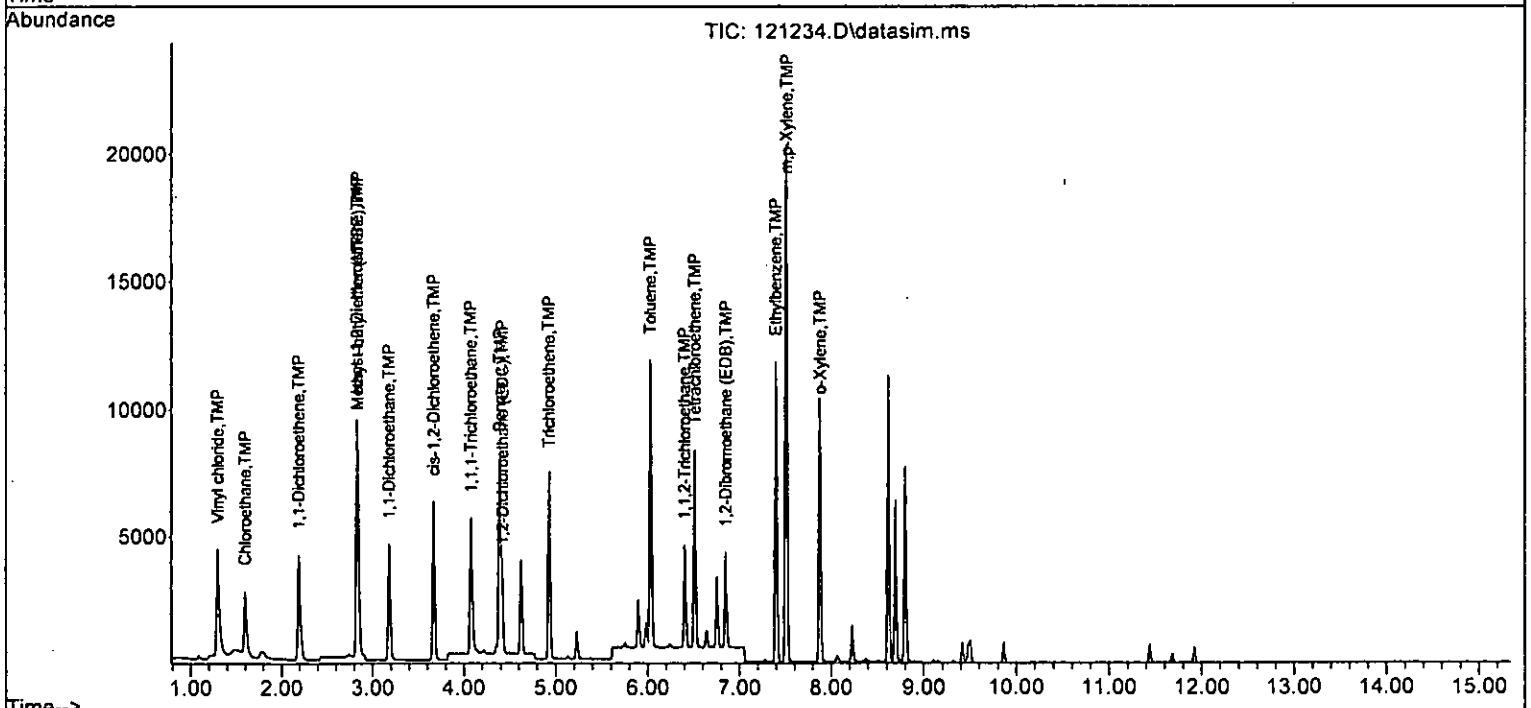
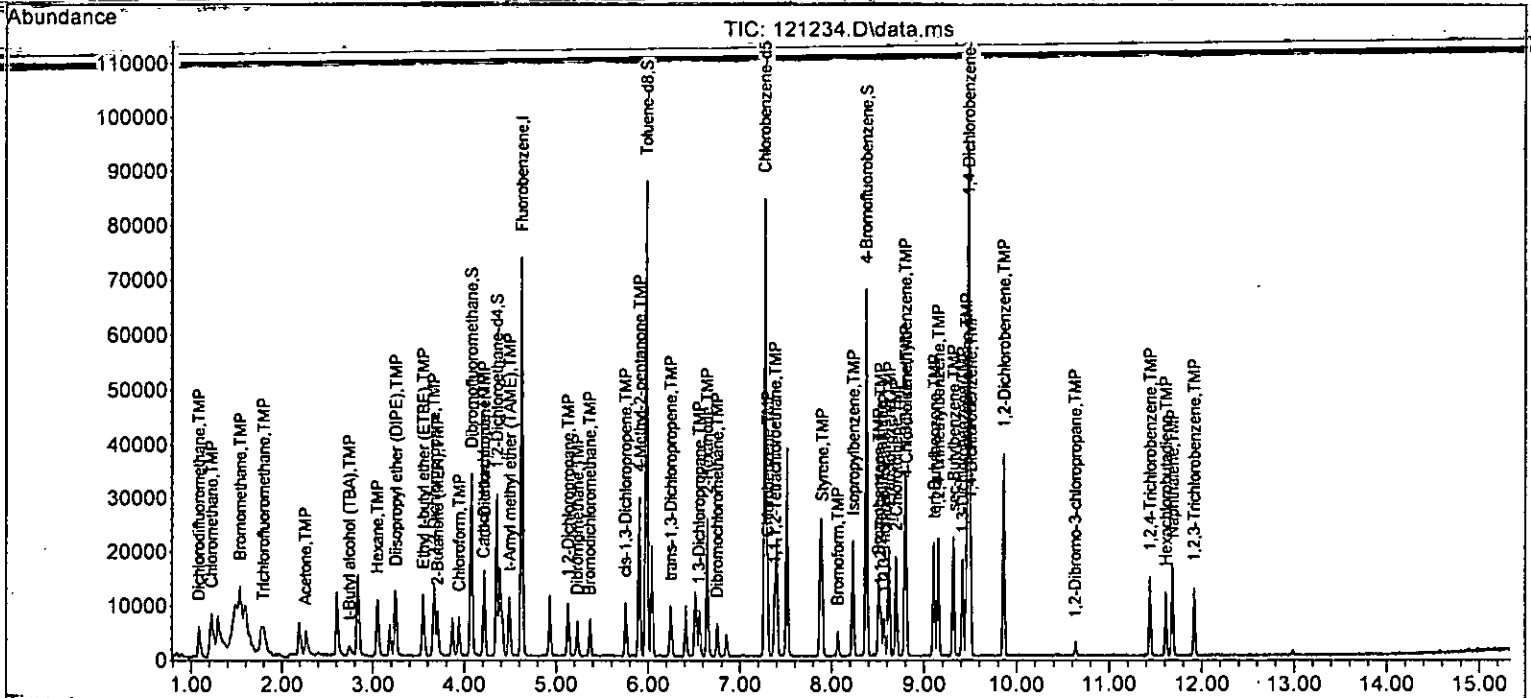
Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	2806	11.014	ppb	83
38) cis-1,3-Dichloropropene	5.75	75	4147	1.982	ppb	97
40] Toluene	6.03	92	6538	1.968	ppb	90
41) trans-1,3-Dichloropropene	6.25	75	3828	2.044	ppb	95
42] 1,1,2-Trichloroethane	6.40	83	2041	1.998	ppb	100
43) 2-Hexanone	6.64	43	13860	10.669	ppb	97
44) 1,3-Dichloropropane	6.55	76	3784	2.080	ppb	100
45] Tetrachloroethene	6.51	164	2627	1.982	ppb	99
46) Dibromochloromethane	6.75	129	2918	2.130	ppb	99
47] 1,2-Dibromoethane (EDB)	6.85	107	2515	1.984	ppb	100
48) Chlorobenzene	7.30	112	6999	1.953	ppb	99
49] Ethylbenzene	7.40	91	12645	2.026	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	2543	1.972	ppb	97
51] m,p-Xylene	7.52	106	9568	4.067	ppb	100
52] o-Xylene	7.88	106	4674	2.028	ppb	98
53) Styrene	7.90	104	7627	2.024	ppb	96
54) Isopropylbenzene	8.23	105	12137	2.004	ppb	97
55) Bromoform	8.07	173	1843	1.886	ppb	90
58) n-Propylbenzene	8.63	91	14014	1.984	ppb	89
59) Bromobenzene	8.51	156	3221	1.942	ppb #	81
60) 1,3,5-Trimethylbenzene	8.80	105	10300	1.958	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	3085	2.054	ppb	89
62) 1,2,3-Trichloropropane	8.57	75	2401	1.904	ppb	93
63) 2-Chlorotoluene	8.70	91	8592	2.057	ppb	98
64) 4-Chlorotoluene	8.81	91	9620	1.959	ppb	94
65) tert-Butylbenzene	9.11	119	9031	1.959	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	10112	1.897	ppb	98
67) sec-Butylbenzene	9.32	105	13234	1.981	ppb	99
68) p-Isopropyltoluene	9.46	119	11415	1.984	ppb	96
69) 1,3-Dichlorobenzene	9.42	146	6353	2.058	ppb	98
70) 1,4-Dichlorobenzene	9.50	146	6259	1.990	ppb	94
71) 1,2-Dichlorobenzene	9.86	146	5860	1.973	ppb	94
72) 1,2-Dibromo-3-chloropr...	10.63	75	681	2.042	ppb #	67
73) 1,2,4-Trichlorobenzene	11.44	180	4030	1.910	ppb	94
74) Hexachlorobutadiene	11.61	225	2185	1.874	ppb	78
75) Naphthalene	11.68	128	11484	2.054	ppb	97
76) 1,2,3-Trichlorobenzene	11.92	180	3625	1.863	ppb	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

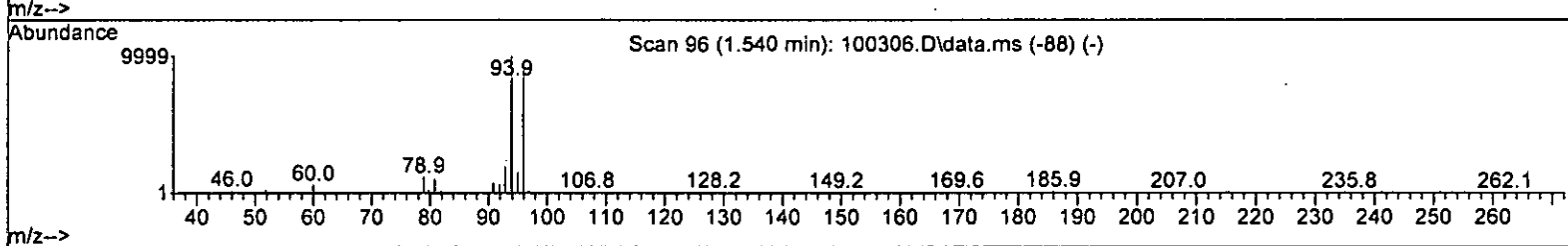
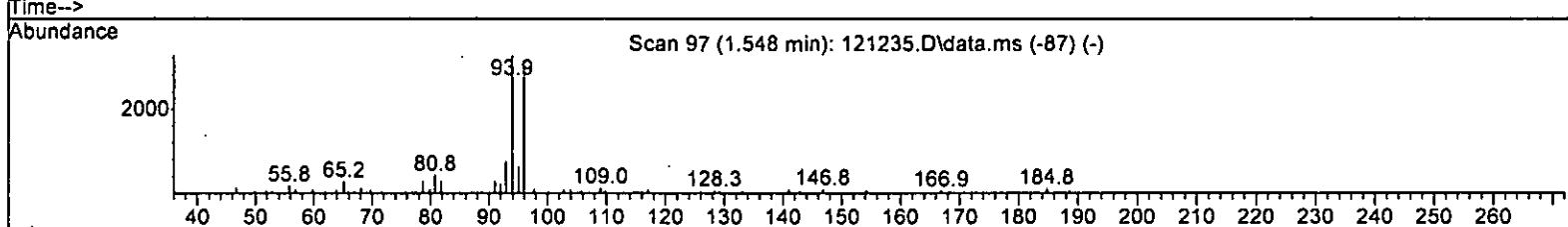
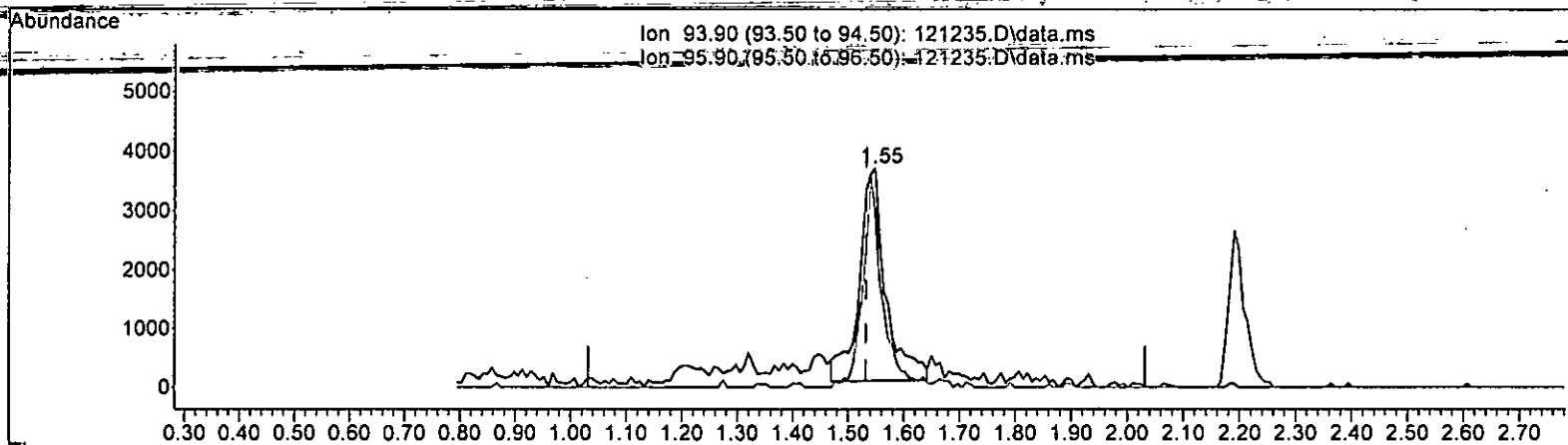
Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121235.D\data.ms

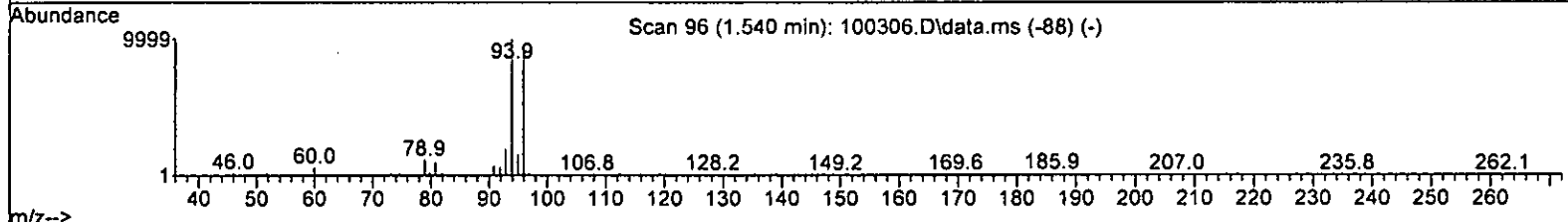
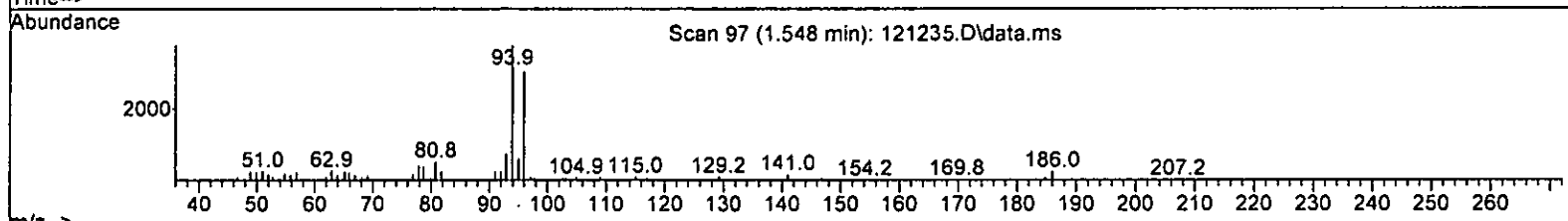
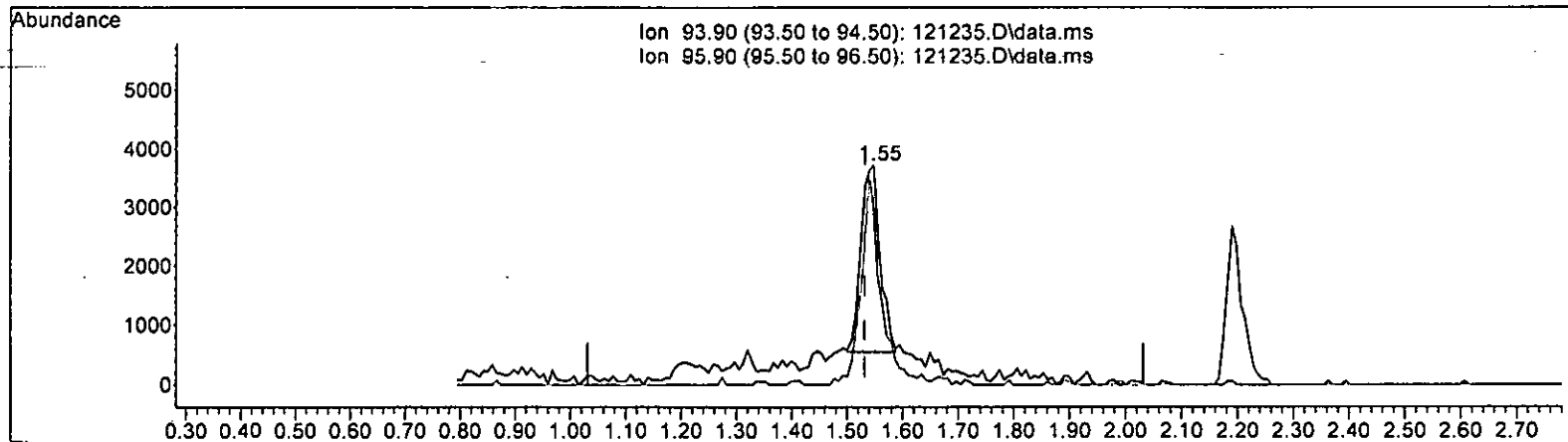
(7) Bromomethane (TMP)		
1.548min (+ 0.016)	6.572 ppb	
response	11813	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	87.24
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: 12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121235.D\data.ms

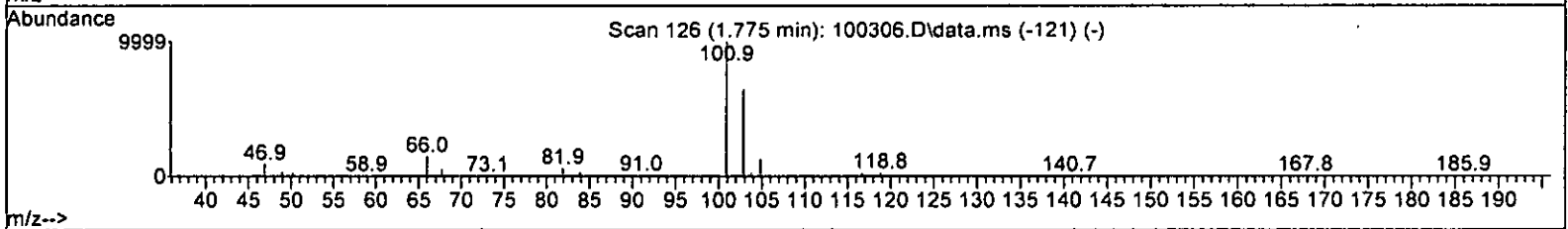
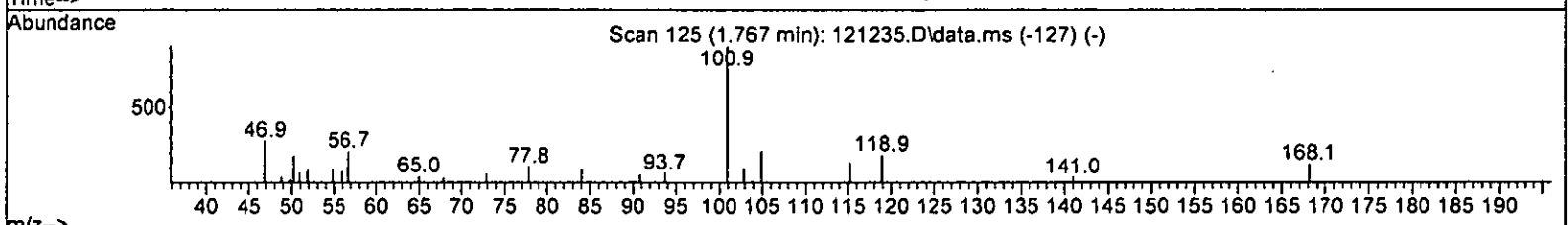
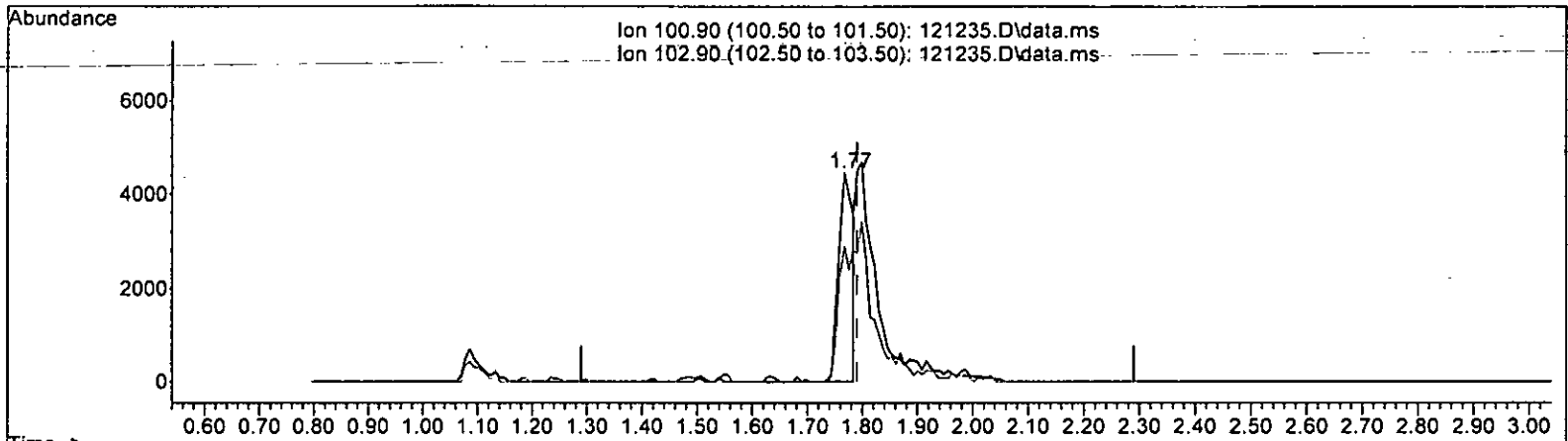
(7) Bromomethane (TMP)			
Retention Time	Response	Exp%	Act%
1.548min (+ 0.016)	7456	100.00	100.00
93.90		100.00	100.00
95.90		69.20	80.36
0.00		0.00	0.00
0.00		0.00	0.00

*Handwritten note: 12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121235.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 1.862 ppb

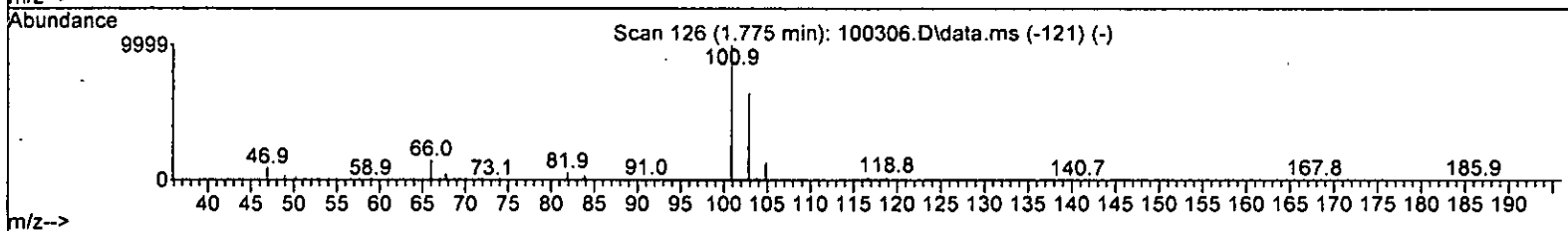
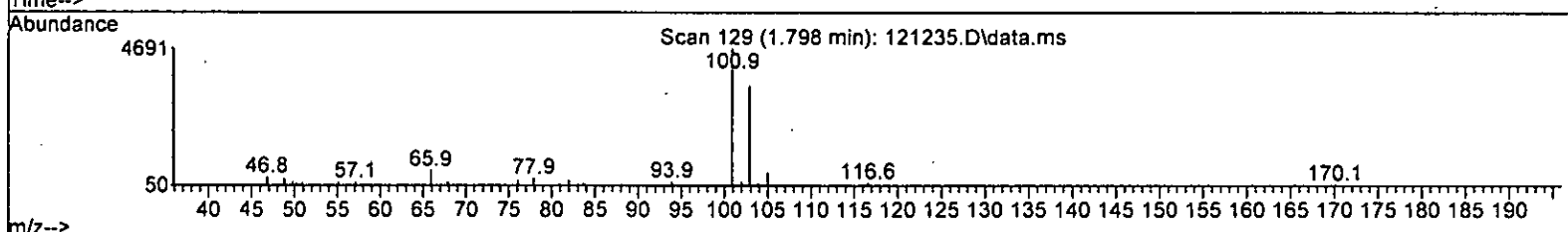
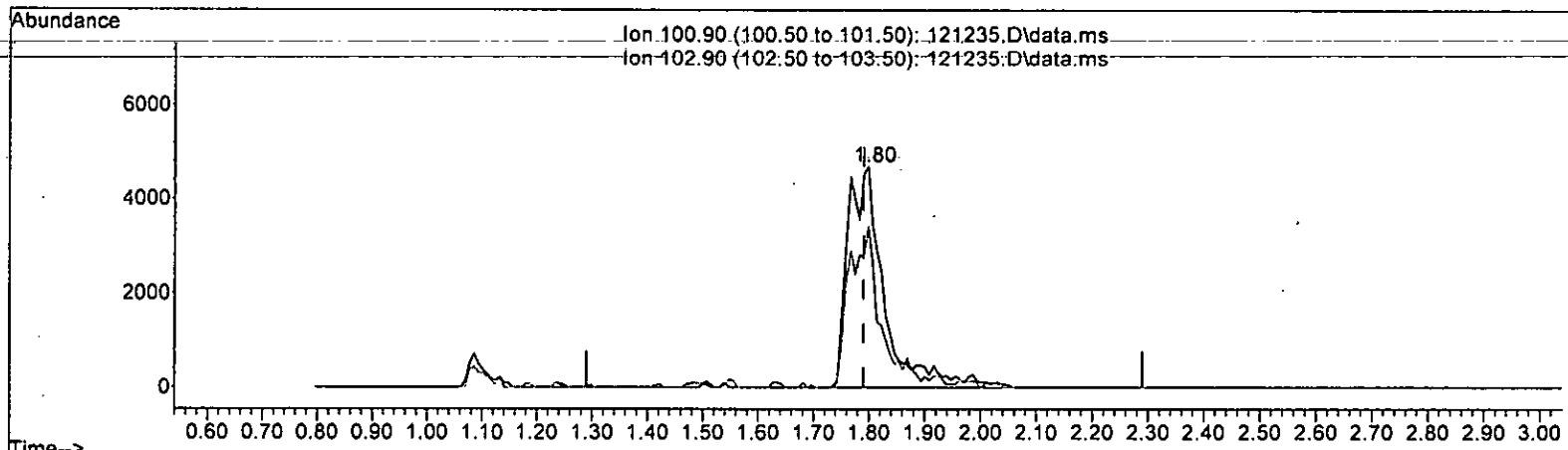
response	7904
Ion	Exp% Act%
100.90	100.00 100.00
102.90	62.70 65.09
0.00	0.00 0.00
0.00	0.00 0.00

12/15 LM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121235.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.798min (+ 0.008) 5.170 ppb m

response	21948
Ion	Exp% Act%
100.90	100.00 100.00
102.90	62.70 72.89
0.00	0.00 0.00
0.00	0.00 0.00

12/15 LM

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.788	2.1	100	0.00
4 TMP Dichlorodifluoromethane	5.000	4.942	1.2	100	0.00
5 TMP Chloromethane	5.000	4.859	2.8	100	0.00
6 TMP Vinyl chloride	5.000	4.878	2.4	100	0.00
7 TMP Bromomethane	5.000	4.148	17.0	100	0.02
8 TMP Chloroethane	5.000	4.728	5.4	100	0.00
9 TMP Trichlorofluoromethane	5.000	5.170	-3.4	104	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	25.000	23.045	7.8	100	0.00
12 TMP 1,1-Dichloroethene	5.000	4.750	5.0	100	0.00
13 TMP Hexane	5.000	4.750	5.0	100	0.00
14 TMP Methylene chloride	5.000	5.745	-14.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	25.000	23.352	6.6	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	5.000	4.971	0.6	100	0.00
17 TMP trans-1,2-Dichloroethene	5.000	5.021	-0.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	5.000	4.959	0.8	100	0.00
19 TMP 1,1-Dichloroethane	5.000	4.880	2.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	5.000	4.794	4.1	100	0.00
21 TMP 2,2-Dichloropropane	5.000	4.739	5.2	100	0.00
22 TMP cis-1,2-Dichloroethene	5.000	4.845	3.1	100	0.00
23 TMP Chloroform	5.000	4.944	1.1	100	0.00
24 TMP 2-Butanone (MEK)	25.000	26.196	-4.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	5.000	4.906	1.9	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	5.000	4.734	5.3	100	0.00
27 TMP 1,1,1-Trichloroethane	5.000	4.859	2.8	100	0.00
28 TMP 1,1-Dichloropropene	5.000	4.825	3.5	100	0.00
29 TMP Carbon tetrachloride	5.000	4.902	2.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.917	0.8	100	0.00
31 TMP Benzene	5.000	4.860	2.8	100	0.00
32 TMP Trichloroethene	5.000	4.769	4.6	100	0.00
33 TMP 1,2-Dichloropropane	5.000	4.540	9.2	100	0.00
34 TMP Bromodichloromethane	5.000	4.562	8.8	100	0.00
35 S Toluene-d8	10.000	9.824	1.8	100	0.00
36 TMP Dibromomethane	5.000	5.030	-0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	25.000	24.628	1.5	100	0.00
38 TMP cis-1,3-Dichloropropene	5.000	4.414	11.7	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	5.000	4.876	2.5	100	0.00
41 TMP trans-1,3-Dichloropropene	5.000	5.115	-2.3	100	0.00
42 TMP 1,1,2-Trichloroethane	5.000	4.937	1.3	100	0.00
43 TMP 2-Hexanone	25.000	25.784	-3.1	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44	TMP 1,3-Dichloropropane	5.000	5.076	-1.5	100	0.00
45	TMP Tetrachloroethene	5.000	4.811	3.8	100	0.00
46	TMP Dibromochloromethane	5.000	4.809	3.8	100	0.00
47	TMP 1,2-Dibromoethane (EDB)	5.000	4.894	2.1	100	0.00
48	TMP Chlorobenzene	5.000	4.971	0.6	100	0.00
49	TMP Ethylbenzene	5.000	4.985	0.3	100	0.00
50	TMP 1,1,1,2-Tetrachloroethane	5.000	5.071	-1.4	100	0.00
51	TMP m,p-Xylene	10.000	9.969	0.3	100	0.00
52	TMP o-Xylene	5.000	5.006	-0.1	100	0.00
53	TMP Styrene	5.000	5.221	-4.4	100	0.00
54	TMP Isopropylbenzene	5.000	4.952	1.0	100	0.00
55	TMP Bromoform	5.000	4.836	3.3	100	0.00
56	I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57	S 4-Bromofluorobenzene	10.000	9.730	2.7	100	0.00
58	TMP n-Propylbenzene	5.000	4.927	1.5	100	0.00
59	TMP Bromobenzene	5.000	4.969	0.6	100	0.00
60	TMP 1,3,5-Trimethylbenzene	5.000	4.816	3.7	100	0.00
61	TMP 1,1,2,2-Tetrachloroethane	5.000	5.047	-0.9	100	0.00
62	TMP 1,2,3-Trichloropropane	5.000	5.106	-2.1	100	0.00
63	TMP 2-Chlorotoluene	5.000	4.705	5.9	100	0.00
64	TMP 4-Chlorotoluene	5.000	4.619	7.6	100	0.00
65	TMP tert-Butylbenzene	5.000	4.757	4.9	100	0.00
66	TMP 1,2,4-Trimethylbenzene	5.000	4.762	4.8	100	0.00
67	TMP sec-Butylbenzene	5.000	4.773	4.5	100	0.00
68	TMP p-Isopropyltoluene	5.000	4.785	4.3	100	0.00
69	TMP 1,3-Dichlorobenzene	5.000	4.735	5.3	100	0.00
70	TMP 1,4-Dichlorobenzene	5.000	4.708	5.8	100	0.00
71	TMP 1,2-Dichlorobenzene	5.000	4.857	2.9	100	0.00
72	TMP 1,2-Dibromo-3-chloropropane	5.000	4.574	8.5	100	0.00
73	TMP 1,2,4-Trichlorobenzene	5.000	4.707	5.9	100	0.00
74	TMP Hexachlorobutadiene	5.000	4.800	4.0	100	0.00
75	TMP Naphthalene	5.000	4.667	6.7	100	0.00
76	TMP 1,2,3-Trichlorobenzene	5.000	4.727	5.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.258	2.3	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.681	1.0	100	0.00
5 TMP Chloromethane	0.883	0.858	2.8	100	0.00
6 TMP Vinyl chloride	0.732	0.714	2.5	100	0.00
7 TMP Bromomethane	0.368	0.306	16.8	100	0.02
8 TMP Chloroethane	0.336	0.318	5.4	100	0.00
9 TMP Trichlorofluoromethane	0.870	0.899	-3.3	104	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.034	8.1	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.228	5.0	100	0.00
13 TMP Hexane	0.434	0.412	5.1	100	0.00
14 TMP Methylene chloride	0.269	0.309	-14.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.043	6.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.729	0.5	100	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.273	-0.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.924	0.9	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.492	2.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.284	4.1	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.299	5.4	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.277	3.1	100	0.00
23 TMP Chloroform	0.477	0.472	1.0	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.192	-4.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.680	2.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.391	5.3	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.428	2.7	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.350	3.3	100	0.00
29 TMP Carbon tetrachloride	0.367	0.360	1.9	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	0.999	0.971	2.8	100	0.00
32 TMP Trichloroethene	0.316	0.301	4.7	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.269	9.1	100	0.00
34 TMP Bromodichloromethane	0.357	0.326	8.7	100	0.00
35 S Toluene-d8	0.960	0.943	1.8	100	0.00
36 TMP Dibromomethane	0.169	0.170	-0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.378	11.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.836	2.6	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.495	-2.3	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.260	1.5	100	0.00
43 TMP 2-Hexanone	0.335	0.346	-3.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.477	-1.5	100	0.00
45 TMP Tetrachloroethene	0.342	0.329	3.8	100	0.00
46 TMP Dibromochloromethane	0.354	0.340	4.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.320	2.1	100	0.00
48 TMP Chlorobenzene	0.925	0.920	0.5	100	0.00
49 TMP Ethylbenzene	1.611	1.607	0.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.338	-1.5	100	0.00
51 TMP m,p-Xylene	0.607	0.605	0.3	100	0.00
52 TMP o-Xylene	0.595	0.596	-0.2	100	0.00
53 TMP Styrene	0.973	1.016	-4.4	100	0.00
54 TMP Isopropylbenzene	1.564	1.549	1.0	100	0.00
55 TMP Bromoform	0.252	0.244	3.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.822	2.6	100	0.00
58 TMP n-Propylbenzene	3.281	3.233	1.5	100	0.00
59 TMP Bromobenzene	0.770	0.766	0.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.353	3.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.704	-0.9	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.598	-2.0	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.826	5.9	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.107	7.6	100	0.00
65 TMP tert-Butylbenzene	2.141	2.037	4.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.358	4.8	100	0.00
67 TMP sec-Butylbenzene	3.103	2.962	4.5	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.557	4.3	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.358	5.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.376	5.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.340	2.9	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.142	8.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.922	5.9	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.520	4.1	100	0.00
75 TMP Naphthalene	2.597	2.424	6.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.855	5.4	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	48803	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	37344	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21151	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12604	9.788	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	97.90%		
30) 1,2-Dichloroethane-d4	4.36	102	2920	9.917	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	99.20%		
35) Toluene-d8	5.98	98	46032	9.824	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	98.20%		
57) 4-Bromofluorobenzene	8.38	95	17376	9.730	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	97.30%		
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	1.09	85	16607	4.942	ppb	96	
5) Chloromethane	1.23	50	20935	4.859	ppb	95	
6] Vinyl chloride	1.29	62	17419	4.878	ppb	99	
7) Bromomethane	1.55	94	7456m	4.148	ppb		
8] Chloroethane	1.60	64	7762	4.728	ppb	100	
9) Trichlorofluoromethane	1.80	101	21948m	5.170	ppb		
10] 2-Propanol	2.41	45	324	No Calib			
11) Acetone	2.26	58	4187	23.045	ppb	97	
12] 1,1-Dichloroethene	2.19	96	5572	4.750	ppb	94	
13) Hexane	3.05	57	10054	4.750	ppb	97	
14) Methylene chloride	2.61	84	7543	5.745	ppb	95	
15) t-Butyl alcohol (TBA)	2.74	59	5263	23.352	ppb	100	
16] Methyl t-butyl ether (...)	2.84	73	17787	4.971	ppb	96	
17] trans-1,2-Dichloroethene	2.83	96	6671	5.021	ppb	87	
18) Diisopropyl ether (DIPE)	3.24	45	22556	4.959	ppb	99	
19] 1,1-Dichloroethane	3.18	63	12011	4.880	ppb	97	
20) Ethyl t-butyl ether (E...)	3.55	87	6926	4.794	ppb	88	
21) 2,2-Dichloropropane	3.67	77	7308	4.739	ppb	91	
22] cis-1,2-Dichloroethene	3.67	96	6771	4.845	ppb	93	
23) Chloroform	3.94	83	11509	4.944	ppb	92	
24) 2-Butanone (MEK)	3.70	43	23381	26.196	ppb	93	
25) t-Amyl methyl ether (T...)	4.49	73	16604	4.906	ppb	97	
26] 1,2-Dichloroethane (EDC)	4.41	62	9550	4.734	ppb	96	
27] 1,1,1-Trichloroethane	4.08	97	10437	4.859	ppb	97	
28) 1,1-Dichloropropene	4.22	75	8529	4.825	ppb	92	
29) Carbon tetrachloride	4.21	117	8782	4.902	ppb	96	
31] Benzene	4.39	78	23692	4.860	ppb	92	
32] Trichloroethene	4.93	95	7345	4.769	ppb	93	
33) 1,2-Dichloropropane	5.13	63	6565	4.540	ppb	97	
34) Bromodichloromethane	5.37	83	7957	4.562	ppb	87	
36) Dibromomethane	5.23	93	4146	5.030	ppb	97	

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

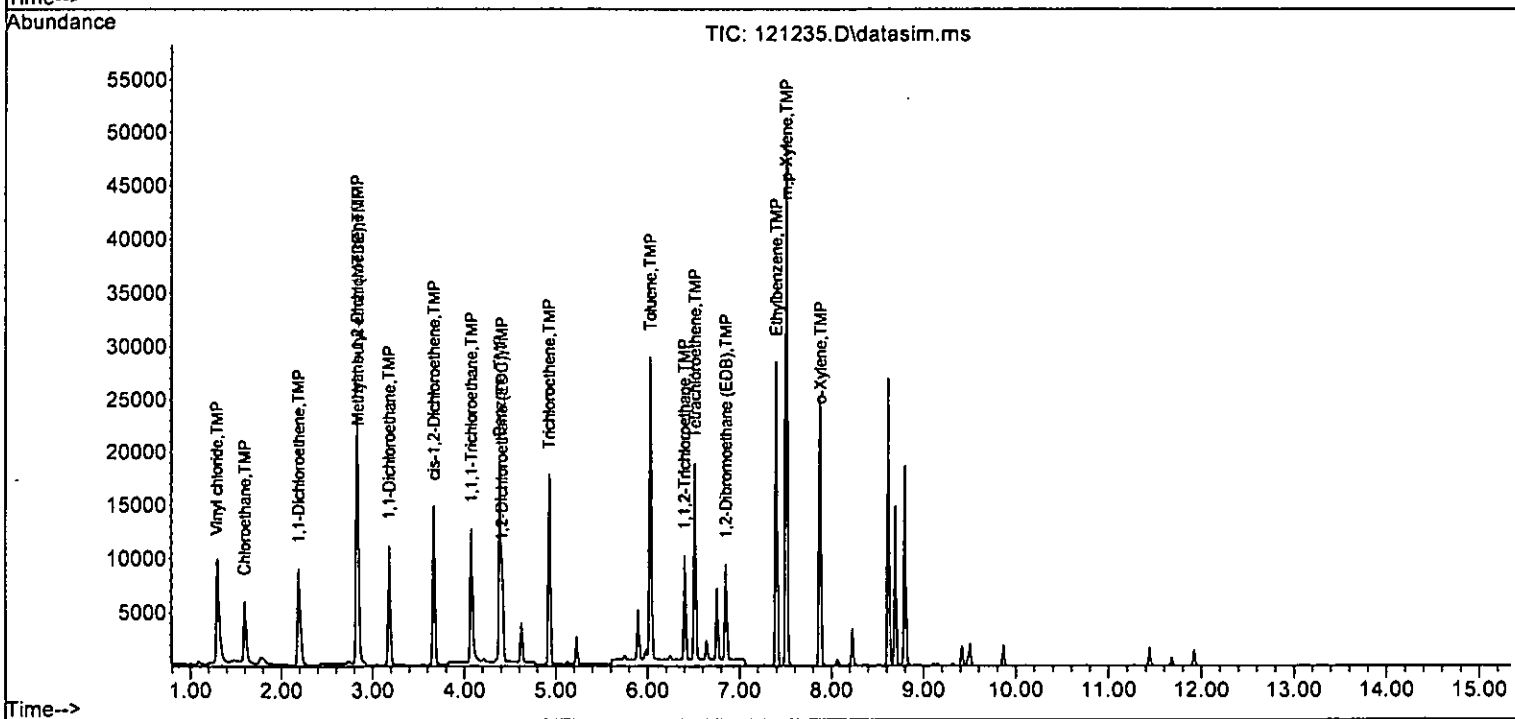
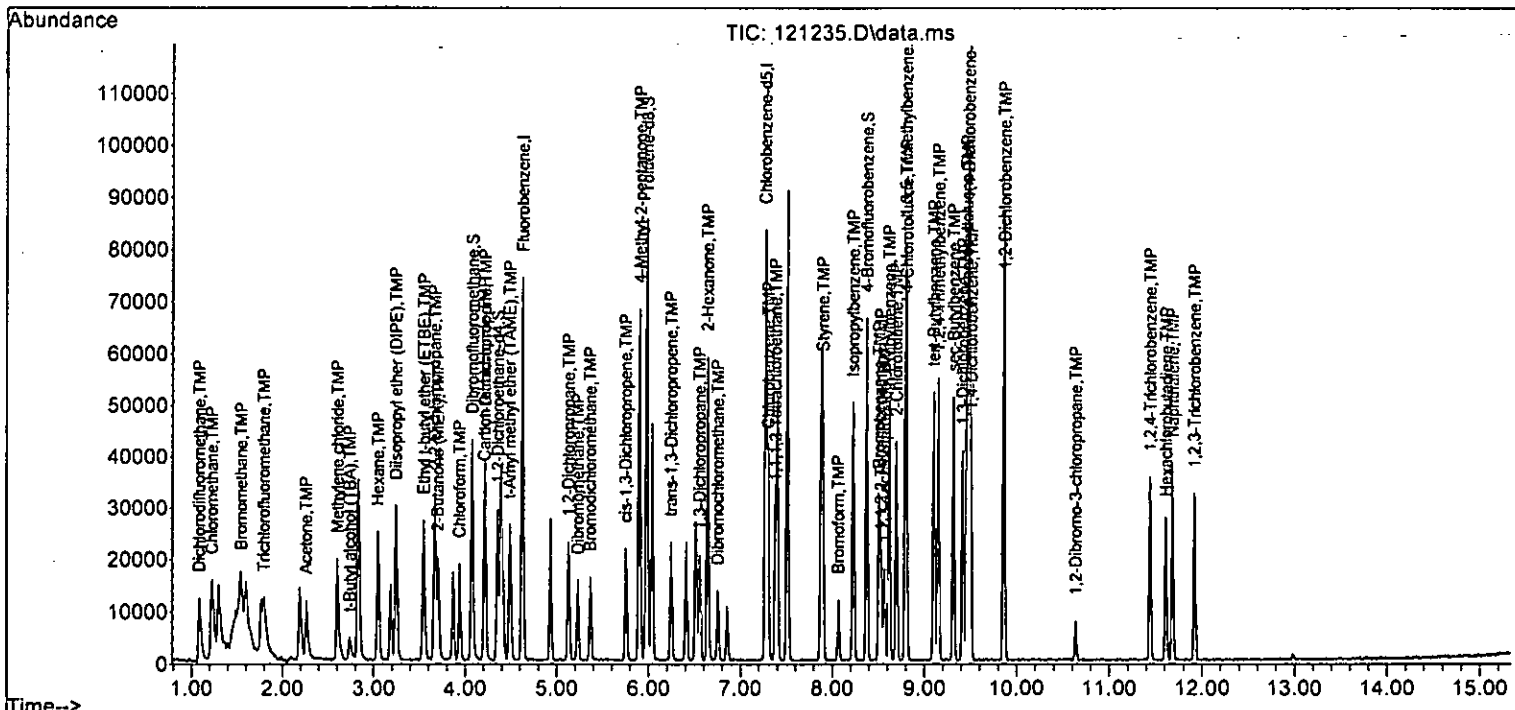
Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	6272	24.628	ppb	99
38) cis-1,3-Dichloropropene	5.75	75	9232	4.414	ppb	92
40] Toluene	6.03	92	15615	4.876	ppb	90
41) trans-1,3-Dichloropropene	6.25	75	9238	5.115	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	4862	4.937	ppb	97
43) 2-Hexanone	6.64	43	32294	25.784	ppb	98
44) 1,3-Dichloropropane	6.55	76	8904	5.076	ppb	98
45] Tetrachloroethene	6.51	164	6148	4.811	ppb	98
46) Dibromochloromethane	6.75	129	6352	4.809	ppb	97
47] 1,2-Dibromoethane (EDB)	6.85	107	5982	4.894	ppb	100
48) Chlorobenzene	7.30	112	17175	4.971	ppb	95
49] Ethylbenzene	7.40	91	29998	4.985	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	6304	5.071	ppb	92
51] m,p-Xylene	7.51	106	22609	9.969	ppb #	70
52] o-Xylene	7.88	106	11122	5.006	ppb	97
53) Styrene	7.90	104	18970	5.221	ppb	93
54) Isopropylbenzene	8.23	105	28922	4.952	ppb	100
55) Bromoform	8.07	173	4555	4.836	ppb	97
58) n-Propylbenzene	8.62	91	34191	4.927	ppb	97
59) Bromobenzene	8.51	156	8097	4.969	ppb	96
60) 1,3,5-Trimethylbenzene	8.80	105	24883	4.816	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	7448	5.047	ppb	90
62) 1,2,3-Trichloropropane	8.57	75	6327	5.106	ppb	89
63) 2-Chlorotoluene	8.70	91	19313	4.705	ppb	100
64) 4-Chlorotoluene	8.81	91	22285	4.619	ppb	97
65) tert-Butylbenzene	9.10	119	21540	4.757	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	24938	4.762	ppb	92
67) sec-Butylbenzene	9.31	105	31326	4.773	ppb	98
68) p-Isopropyltoluene	9.46	119	27043	4.785	ppb	99
69) 1,3-Dichlorobenzene	9.42	146	14361	4.735	ppb	93
70) 1,4-Dichlorobenzene	9.51	146	14547	4.708	ppb	95
71) 1,2-Dichlorobenzene	9.87	146	14174	4.857	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.64	75	1499	4.574	ppb	95
73) 1,2,4-Trichlorobenzene	11.44	180	9754	4.707	ppb	98
74) Hexachlorobutadiene	11.61	225	5498	4.800	ppb	85
75) Naphthalene	11.68	128	25634	4.667	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	9037	4.727	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

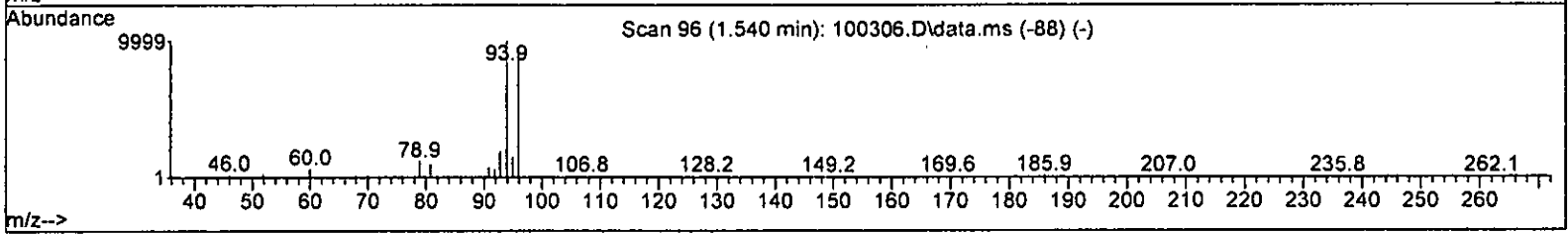
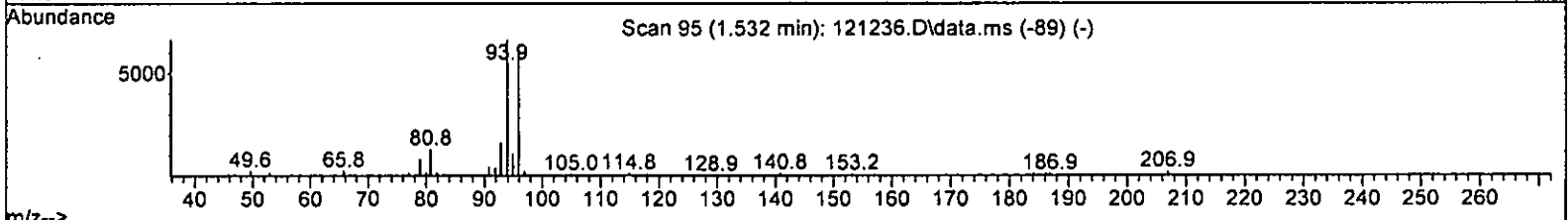
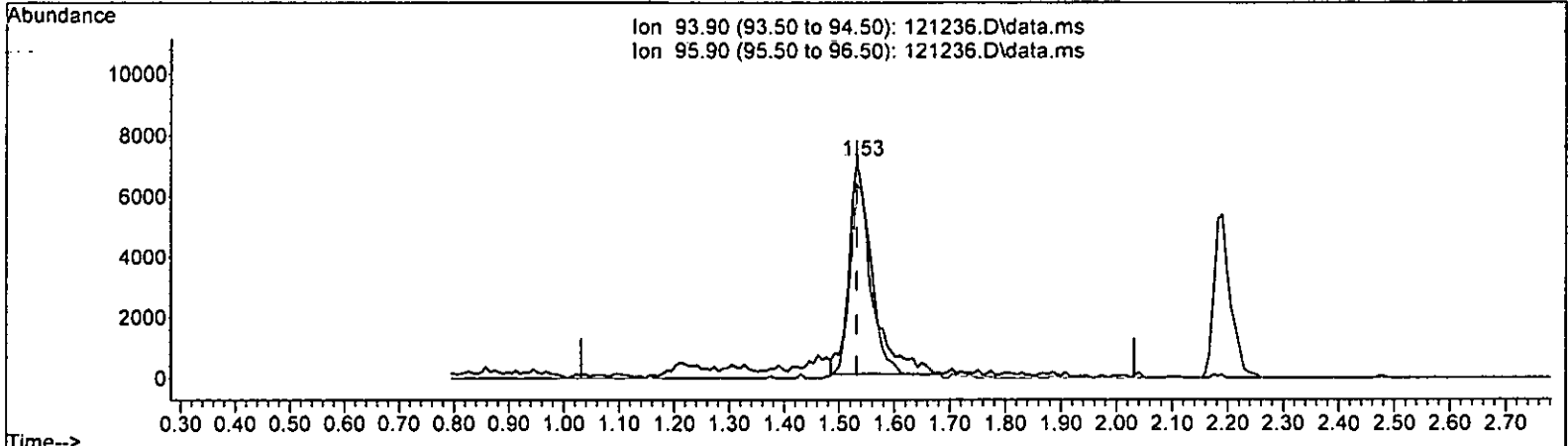
Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



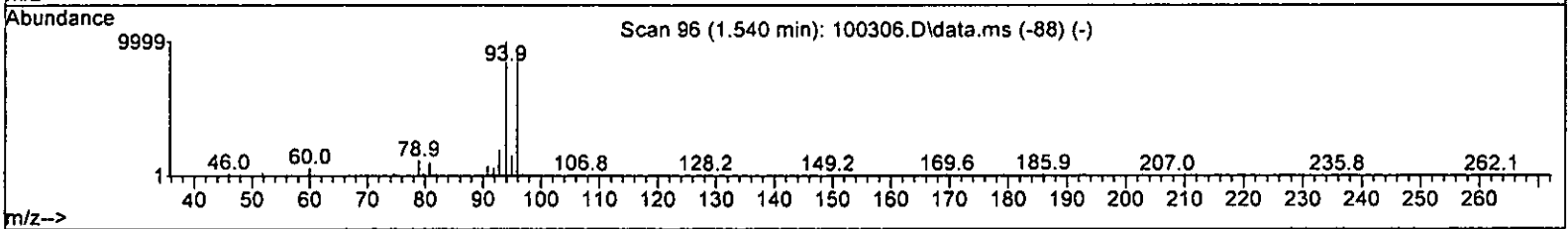
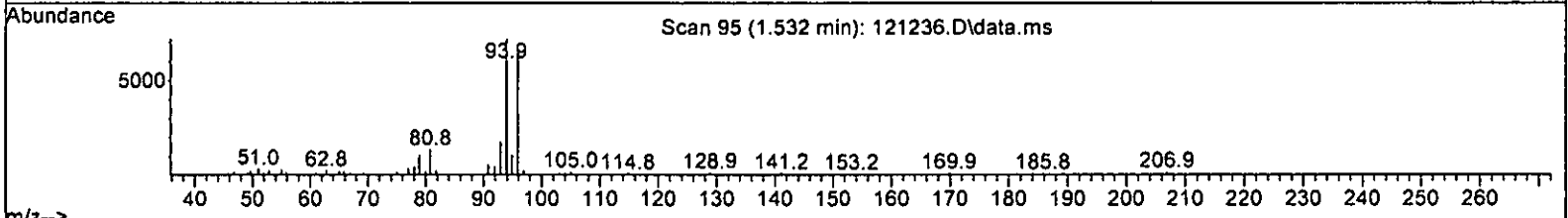
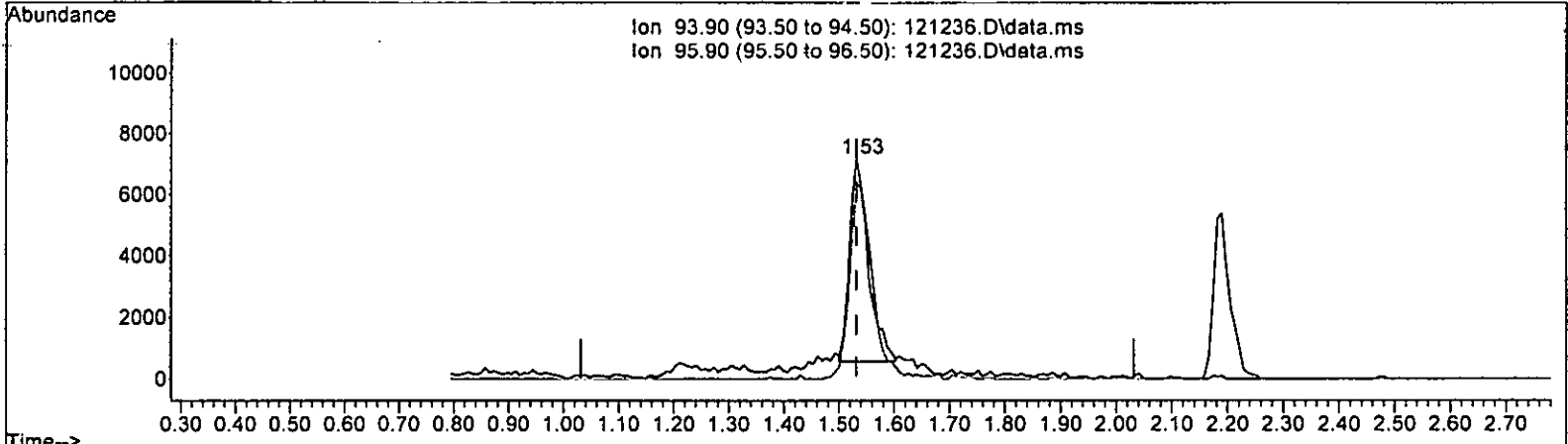
TIC: 121236.D\data.ms

(7) Bromomethane (TMP)			
1.532min (-0.000) 12/106 ppb			
response	21050		
Ion	Expt	Act%	
93.90	100.00	100.00	<i>12/15 LM</i>
95.90	69.20	91.07	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121236.D\data.ms

(7) Bromomethane (TMP)			
1.532min (-0.000) 9.339 ppb m			
response	16239		
Ion	Exp%	Act%	
93.90	100.00	100.00	<i>12/15 LM</i>
95.90	69.20	89.43	
0.00	0.00	0.00	
0.00	0.00	0.00	



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.069	-0.7	100	0.00
4 TMP Dichlorodifluoromethane	10.000	9.783	2.2	100	0.00
5 TMP Chloromethane	10.000	9.771	2.3	100	0.00
6 TMP Vinyl chloride	10.000	10.198	-2.0	100	0.00
7 TMP Bromomethane	10.000	9.339	6.6	104	0.00
8 TMP Chloroethane	10.000	9.829	1.7	100	0.00
9 TMP Trichlorofluoromethane	10.000	9.726	2.7	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	46.444	7.1	100	0.00
12 TMP 1,1-Dichloroethene	10.000	10.126	-1.3	100	0.00
13 TMP Hexane	10.000	10.044	-0.4	100	0.00
14 TMP Methylene chloride	10.000	10.715	-7.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	49.443	1.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.370	-3.7	100	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.134	-1.3	100	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.998	0.0	100	0.00
19 TMP 1,1-Dichloroethane	10.000	10.253	-2.5	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.386	-3.9	100	0.00
21 TMP 2,2-Dichloropropane	10.000	10.005	-0.1	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	10.140	-1.4	100	0.00
23 TMP Chloroform	10.000	9.592	4.1	100	0.00
24 TMP 2-Butanone (MEK)	50.000	48.782	2.4	100	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	10.319	-3.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	9.902	1.0	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.124	-1.2	100	0.00
28 TMP 1,1-Dichloropropene	10.000	10.072	-0.7	100	0.00
29 TMP Carbon tetrachloride	10.000	10.188	-1.9	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.599	-6.0	100	0.00
31 TMP Benzene	10.000	10.086	-0.9	100	0.00
32 TMP Trichloroethene	10.000	10.071	-0.7	100	0.00
33 TMP 1,2-Dichloropropane	10.000	9.926	0.7	100	0.00
34 TMP Bromodichloromethane	10.000	9.853	1.5	100	0.00
35 S Toluene-d8	10.000	9.802	2.0	100	0.00
36 TMP Dibromomethane	10.000	10.365	-3.7	100	0.00
37 TMP 4-Methyl-2-pentanone	50.000	48.757	2.5	100	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.748	2.5	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	10.000	9.979	0.2	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.943	0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.153	-1.5	100	0.00
43 TMP 2-Hexanone	50.000	51.220	-2.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.558	-5.6	100	0.00
45 TMP Tetrachloroethene	10.000	9.813	1.9	100	0.00
46 TMP Dibromochloromethane	10.000	9.970	0.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.035	-0.4	100	0.00
48 TMP Chlorobenzene	10.000	10.141	-1.4	100	0.00
49 TMP Ethylbenzene	10.000	10.158	-1.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.518	-5.2	100	0.00
51 TMP m,p-Xylene	20.000	20.237	-1.2	100	0.00
52 TMP o-Xylene	10.000	10.217	-2.2	100	0.00
53 TMP Styrene	10.000	10.267	-2.7	100	0.00
54 TMP Isopropylbenzene	10.000	10.275	-2.8	100	0.00
55 TMP Bromoform	10.000	10.118	-1.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.143	-1.4	100	0.00
58 TMP n-Propylbenzene	10.000	10.113	-1.1	100	0.00
59 TMP Bromobenzene	10.000	10.054	-0.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.792	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	10.163	-1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.870	1.3	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.930	0.7	100	0.00
64 TMP 4-Chlorotoluene	10.000	9.827	1.7	100	0.00
65 TMP tert-Butylbenzene	10.000	9.942	0.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.000	0.0	100	0.00
67 TMP sec-Butylbenzene	10.000	9.844	1.6	100	0.00
68 TMP p-Isopropyltoluene	10.000	10.133	-1.3	100	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.879	1.2	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.915	0.9	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.074	-0.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.649	3.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.881	1.2	100	0.00
74 TMP Hexachlorobutadiene	10.000	9.973	0.3	100	0.00
75 TMP Naphthalene	10.000	9.429	5.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.133	-1.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.266	-0.8	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.674	2.0	100	0.00
5 TMP Chloromethane	0.883	0.863	2.3	100	0.00
6 TMP Vinyl chloride	0.732	0.746	-1.9	100	0.00
7 TMP Bromomethane	0.368	0.344	6.5	104	0.00
8 TMP Chloroethane	0.336	0.331	1.5	100	0.00
9 TMP Trichlorofluoromethane	0.870	0.846	2.8	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.035	5.4	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.243	-1.3	100	0.00
13 TMP Hexane	0.434	0.436	-0.5	100	0.00
14 TMP Methylene chloride	0.269	0.288	-7.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.760	-3.7	100	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.276	-1.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.932	0.0	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.517	-2.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.307	-3.7	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.316	0.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.290	-1.4	100	0.00
23 TMP Chloroform	0.477	0.458	4.0	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.178	2.7	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.716	-3.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.409	1.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.446	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.365	-0.8	100	0.00
29 TMP Carbon tetrachloride	0.367	0.374	-1.9	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.064	-6.7	100	0.00
31 TMP Benzene	0.999	1.008	-0.9	100	0.00
32 TMP Trichloroethene	0.316	0.318	-0.6	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.294	0.7	100	0.00
34 TMP Bromodichloromethane	0.357	0.352	1.4	100	0.00
35 S Toluene-d8	0.960	0.941	2.0	100	0.00
36 TMP Dibromomethane	0.169	0.175	-3.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.418	2.6	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.856	0.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.481	0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.268	-1.5	100	0.00
43 TMP 2-Hexanone	0.335	0.344	-2.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.496	-5.5	100	0.00
45 TMP Tetrachloroethene	0.342	0.336	1.8	100	0.00
46 TMP Dibromochloromethane	0.354	0.353	0.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.328	-0.3	100	0.00
48 TMP Chlorobenzene	0.925	0.938	-1.4	100	0.00
49 TMP Ethylbenzene	1.611	1.637	-1.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.350	-5.1	100	0.00
51 TMP m,p-Xylene	0.607	0.615	-1.3	100	0.00
52 TMP o-Xylene	0.595	0.608	-2.2	100	0.00
53 TMP Styrene	0.973	0.999	-2.7	100	0.00
54 TMP Isopropylbenzene	1.564	1.607	-2.7	100	0.00
55 TMP Bromoform	0.252	0.255	-1.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.856	-1.4	100	0.00
58 TMP n-Propylbenzene	3.281	3.318	-1.1	100	0.00
59 TMP Bromobenzene	0.770	0.775	-0.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.392	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.709	-1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.578	1.4	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.927	0.7	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.241	1.8	100	0.00
65 TMP tert-Butylbenzene	2.141	2.128	0.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.476	0.0	100	0.00
67 TMP sec-Butylbenzene	3.103	3.055	1.5	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.707	-1.3	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.417	1.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.448	0.9	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.390	-0.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.149	3.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.968	1.2	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.540	0.4	100	0.00
75 TMP Naphthalene	2.597	2.449	5.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.916	-1.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	47211	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	36478	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	20261	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.07	113	12542	10.069	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.70%		
30) 1,2-Dichloroethane-d4	4.35	102	3019	10.599	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	106.00%		
35) Toluene-d8	5.98	98	44430	9.802	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	98.00%		
57) 4-Bromofluorobenzene	8.38	95	17351	10.143	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	101.40%		
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.08	85	31799	9.783	ppb		99
5) Chloromethane	1.22	50	40723	9.771	ppb		97
6] Vinyl chloride	1.29	62	35229	10.198	ppb		97
7) Bromomethane	1.53	94	16239m	9.339	ppb		
8] Chloroethane	1.59	64	15611	9.829	ppb		100
9) Trichlorofluoromethane	1.79	101	39943	9.726	ppb		96
10) 2-Propanol	2.41	45	312	No Calib			
11) Acetone	2.26	58	8163	46.444	ppb	#	85
12] 1,1-Dichloroethene	2.18	96	11491	10.126	ppb		83
13) Hexane	3.05	57	20568	10.044	ppb		97
14) Methylene chloride	2.60	84	13609	10.715	ppb		95
15) t-Butyl alcohol (TBA)	2.73	59	10780	49.443	ppb		99
16] Methyl t-butyl ether (...)	2.83	73	35895	10.370	ppb		94
17] trans-1,2-Dichloroethene	2.82	96	13025	10.134	ppb		98
18) Diisopropyl ether (DIPE)	3.24	45	43994	9.998	ppb		97
19] 1,1-Dichloroethane	3.18	63	24409	10.253	ppb		99
20) Ethyl t-butyl ether (E...)	3.55	87	14514	10.386	ppb		91
21) 2,2-Dichloropropane	3.66	77	14926	10.005	ppb		90
22] cis-1,2-Dichloroethene	3.67	96	13710	10.140	ppb		88
23) Chloroform	3.94	83	21601	9.592	ppb		92
24) 2-Butanone (MEK)	3.70	43	42119	48.782	ppb		99
25) t-Amyl methyl ether (T...)	4.49	73	33785	10.319	ppb		98
26] 1,2-Dichloroethane (EDC)	4.41	62	19323	9.902	ppb		97
27] 1,1,1-Trichloroethane	4.08	97	21039	10.124	ppb		94
28) 1,1-Dichloropropene	4.22	75	17223	10.072	ppb		97
29) Carbon tetrachloride	4.21	117	17656	10.188	ppb		98
31] Benzene	4.38	78	47570	10.086	ppb		94
32] Trichloroethene	4.93	95	15004	10.071	ppb		88
33) 1,2-Dichloropropane	5.13	63	13885	9.926	ppb		98
34) Bromodichloromethane	5.37	83	16626	9.853	ppb		83
36) Dibromomethane	5.23	93	8265	10.365	ppb		95

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

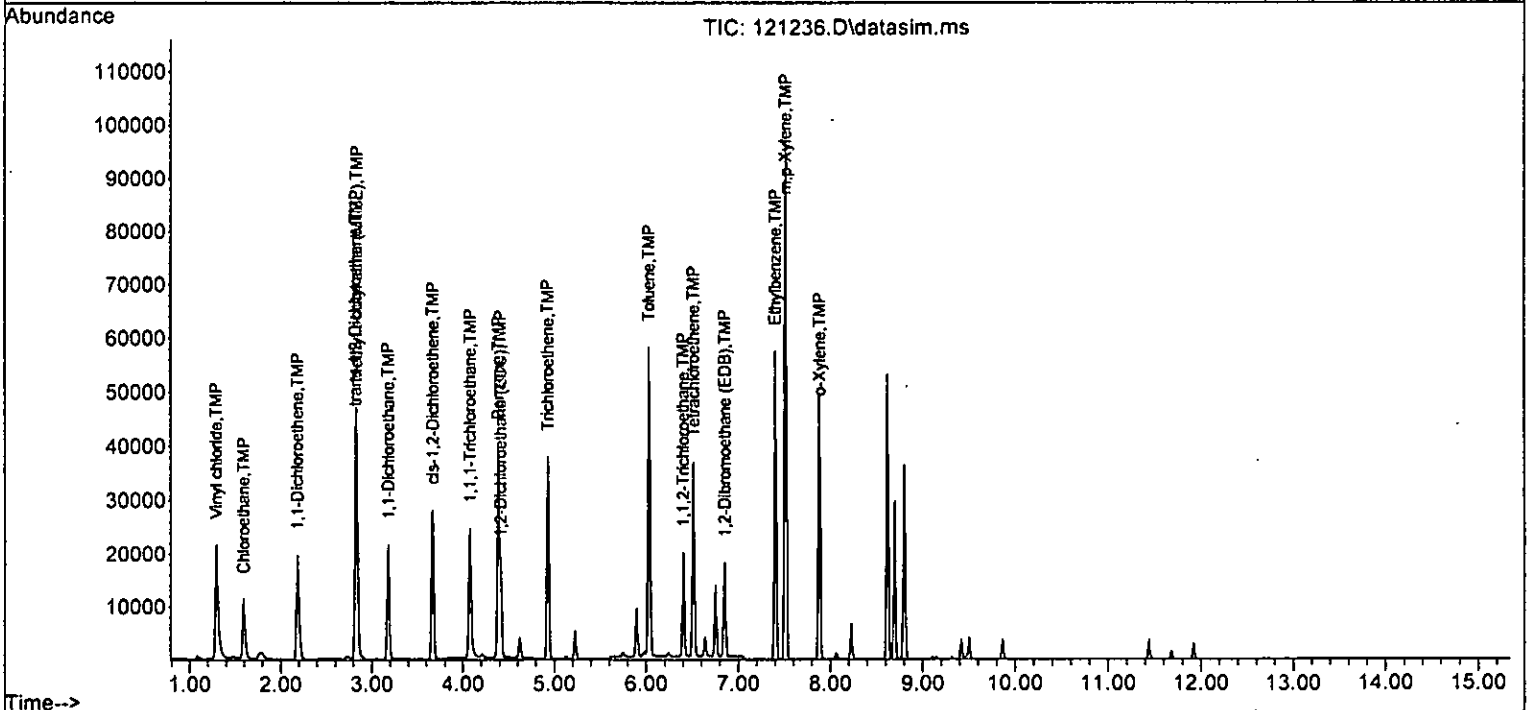
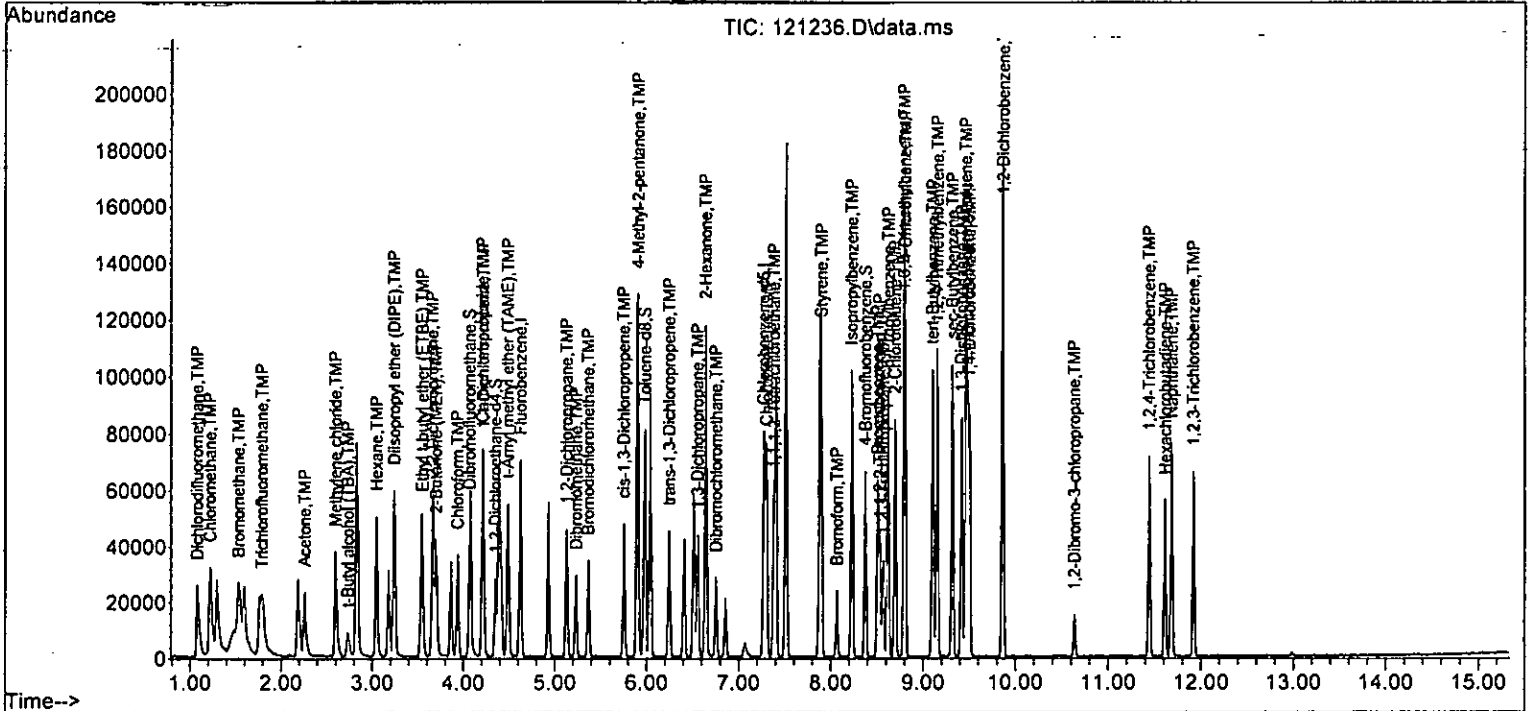
Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	12012	48.757	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	19722	9.748	ppb	99
40) Toluene	6.03	92	31218	9.979	ppb	92
41) trans-1,3-Dichloropropene	6.25	75	17541	9.943	ppb	97
42) 1,1,2-Trichloroethane	6.40	83	9767	10.153	ppb	97
43) 2-Hexanone	6.64	43	62666	51.220	ppb	97
44) 1,3-Dichloropropane	6.55	76	18090	10.558	ppb	100
45) Tetrachloroethene	6.51	164	12249	9.813	ppb	99
46) Dibromochloromethane	6.75	129	12864	9.970	ppb	97
47) 1,2-Dibromoethane (EDB)	6.85	107	11982	10.035	ppb	99
48) Chlorobenzene	7.30	112	34223	10.141	ppb	98
49) Ethylbenzene	7.40	91	59706	10.158	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	12772	10.518	ppb	95
51) m,p-Xylene	7.51	106	44834	20.237	ppb #	69
52) o-Xylene	7.88	106	22172	10.217	ppb	98
53) Styrene	7.90	104	36435	10.267	ppb	100
54) Isopropylbenzene	8.23	105	58617	10.275	ppb	98
55) Bromoform	8.07	173	9309	10.118	ppb	96
58) n-Propylbenzene	8.63	91	67235	10.113	ppb	98
59) Bromobenzene	8.51	156	15695	10.054	ppb	97
60) 1,3,5-Trimethylbenzene	8.79	105	48463	9.792	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	14366	10.163	ppb	91
62) 1,2,3-Trichloropropane	8.57	75	11716	9.870	ppb	97
63) 2-Chlorotoluene	8.70	91	39041	9.930	ppb	95
64) 4-Chlorotoluene	8.81	91	45413	9.827	ppb	97
65) tert-Butylbenzene	9.10	119	43121	9.942	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	50168	10.000	ppb	95
67) sec-Butylbenzene	9.31	105	61889	9.844	ppb	100
68) p-Isopropyltoluene	9.46	119	54856	10.133	ppb	99
69) 1,3-Dichlorobenzene	9.42	146	28704	9.879	ppb	98
70) 1,4-Dichlorobenzene	9.50	146	29345	9.915	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	28163	10.074	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.63	75	3029	9.649	ppb	98
73) 1,2,4-Trichlorobenzene	11.44	180	19616	9.881	ppb	99
74) Hexachlorobutadiene	11.61	225	10943	9.973	ppb	93
75) Naphthalene	11.68	128	49612	9.429	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	18559	10.133	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.066	-0.7	100	0.00
4 TMP Dichlorodifluoromethane	20.000	19.846	0.8	100	0.00
5 TMP Chloromethane	20.000	19.148	4.3	100	0.00
6 TMP Vinyl chloride	20.000	19.794	1.0	100	0.00
7 TMP Bromomethane	20.000	21.535	-7.7	100	0.00
8 TMP Chloroethane	20.000	19.344	3.3	100	0.00
9 TMP Trichlorofluoromethane	20.000	19.153	4.2	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	100.000	94.914	5.1	100	0.00
12 TMP 1,1-Dichloroethene	20.000	19.447	2.8	100	0.00
13 TMP Hexane	20.000	19.153	4.2	100	0.00
14 TMP Methylene chloride	20.000	19.409	3.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	100.000	99.207	0.8	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	20.000	19.849	0.8	100	0.00
17 TMP trans-1,2-Dichloroethene	20.000	19.091	4.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	20.000	19.331	3.3	100	0.00
19 TMP 1,1-Dichloroethane	20.000	19.569	2.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	20.000	19.346	3.3	100	0.00
21 TMP 2,2-Dichloropropane	20.000	17.724	11.4	100	0.00
22 TMP cis-1,2-Dichloroethene	20.000	19.353	3.2	100	0.00
23 TMP Chloroform	20.000	18.861	5.7	100	0.00
24 TMP 2-Butanone (MEK)	100.000	91.850	8.2	100	0.00
25 TMP t-Amyl methyl ether (TAME)	20.000	19.319	3.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	20.000	18.982	5.1	100	0.00
27 TMP 1,1,1-Trichloroethane	20.000	19.627	1.9	100	0.00
28 TMP 1,1-Dichloropropene	20.000	19.047	4.8	100	0.00
29 TMP Carbon tetrachloride	20.000	20.073	-0.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.333	-3.3	100	0.00
31 TMP Benzene	20.000	19.365	3.2	100	0.00
32 TMP Trichloroethene	20.000	19.305	3.5	100	0.00
33 TMP 1,2-Dichloropropane	20.000	18.751	6.2	100	0.00
34 TMP Bromodichloromethane	20.000	18.979	5.1	100	0.00
35 S Toluene-d8	10.000	9.926	0.7	100	0.00
36 TMP Dibromomethane	20.000	20.136	-0.7	100	0.00
37 TMP 4-Methyl-2-pentanone	100.000	98.234	1.8	100	0.00
38 TMP cis-1,3-Dichloropropene	20.000	19.182	4.1	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	20.000	18.932	5.3	100	0.00
41 TMP trans-1,3-Dichloropropene	20.000	19.505	2.5	100	0.00
42 TMP 1,1,2-Trichloroethane	20.000	19.195	4.0	100	0.00
43 TMP 2-Hexanone	100.000	97.771	2.2	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	20.000	19.720	1.4	100	0.00
45 TMP Tetrachloroethene	20.000	18.629	6.9	100	0.00
46 TMP Dibromochloromethane	20.000	20.035	-0.2	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	20.000	19.134	4.3	100	0.00
48 TMP Chlorobenzene	20.000	19.471	2.6	100	0.00
49 TMP Ethylbenzene	20.000	19.163	4.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	20.000	19.681	1.6	100	0.00
51 TMP m,p-Xylene	40.000	37.969	5.1	100	0.00
52 TMP o-Xylene	20.000	19.259	3.7	100	0.00
53 TMP Styrene	20.000	19.253	3.7	100	0.00
54 TMP Isopropylbenzene	20.000	19.098	4.5	100	0.00
55 TMP Bromoform	20.000	19.634	1.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.052	-0.5	100	0.00
58 TMP n-Propylbenzene	20.000	19.472	2.6	100	0.00
59 TMP Bromobenzene	20.000	19.854	0.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	20.000	19.197	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	20.000	19.894	0.5	100	0.00
62 TMP 1,2,3-Trichloropropane	20.000	19.669	1.7	100	0.00
63 TMP 2-Chlorotoluene	20.000	19.483	2.6	100	0.00
64 TMP 4-Chlorotoluene	20.000	19.027	4.9	100	0.00
65 TMP tert-Butylbenzene	20.000	19.521	2.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	20.000	19.510	2.4	100	0.00
67 TMP sec-Butylbenzene	20.000	19.824	0.9	100	0.00
68 TMP p-Isopropyltoluene	20.000	19.733	1.3	100	0.00
69 TMP 1,3-Dichlorobenzene	20.000	19.624	1.9	100	0.00
70 TMP 1,4-Dichlorobenzene	20.000	19.537	2.3	100	0.00
71 TMP 1,2-Dichlorobenzene	20.000	19.726	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	20.000	19.964	0.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	20.000	20.297	-1.5	100	0.00
74 TMP Hexachlorobutadiene	20.000	20.013	-0.1	100	0.00
75 TMP Naphthalene	20.000	18.353	8.2	100	0.00
76 TMP 1,2,3-Trichlorobenzene	20.000	20.045	-0.2	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.266	-0.8	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.683	0.7	100	0.00
5 TMP	Chloromethane	0.883	0.845	4.3	100	0.00
6 TMP	Vinyl chloride	0.732	0.724	1.1	100	0.00
7 TMP	Bromomethane	0.368	0.397	-7.9	100	0.00
8 TMP	Chloroethane	0.336	0.325	3.3	100	0.00
9 TMP	Trichlorofluoromethane	0.870	0.833	4.3	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.035	5.4	100	0.00
12 TMP	1,1-Dichloroethene	0.240	0.234	2.5	100	0.00
13 TMP	Hexane	0.434	0.415	4.4	100	0.00
14 TMP	Methylene chloride	0.269	0.261	3.0	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.728	0.7	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.260	4.4	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.901	3.3	100	0.00
19 TMP	1,1-Dichloroethane	0.504	0.493	2.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.286	3.4	100	0.00
21 TMP	2,2-Dichloropropane	0.316	0.280	11.4	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.277	3.1	100	0.00
23 TMP	Chloroform	0.477	0.450	5.7	100	0.00
24 TMP	2-Butanone (MEK)	0.183	0.168	8.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.670	3.5	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.392	5.1	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.432	1.8	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.345	4.7	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.368	-0.3	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP	Benzene	0.999	0.967	3.2	100	0.00
32 TMP	Trichloroethene	0.316	0.305	3.5	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.278	6.1	100	0.00
34 TMP	Bromodichloromethane	0.357	0.339	5.0	100	0.00
35 S	Toluene-d8	0.960	0.953	0.7	100	0.00
36 TMP	Dibromomethane	0.169	0.170	-0.6	100	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.411	4.2	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.858	0.812	5.4	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.484	0.472	2.5	100	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.253	4.2	100	0.00
43 TMP	2-Hexanone	0.335	0.328	2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.463	1.5	100	0.00
45 TMP Tetrachloroethene	0.342	0.319	6.7	100	0.00
46 TMP Dibromochloromethane	0.354	0.354	0.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.313	4.3	100	0.00
48 TMP Chlorobenzene	0.925	0.901	2.6	100	0.00
49 TMP Ethylbenzene	1.611	1.544	4.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.328	1.5	100	0.00
51 TMP m,p-Xylene	0.607	0.576	5.1	100	0.00
52 TMP o-Xylene	0.595	0.573	3.7	100	0.00
53 TMP Styrene	0.973	0.937	3.7	100	0.00
54 TMP Isopropylbenzene	1.564	1.493	4.5	100	0.00
55 TMP Bromoform	0.252	0.248	1.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.849	-0.6	100	0.00
58 TMP n-Propylbenzene	3.281	3.195	2.6	100	0.00
59 TMP Bromobenzene	0.770	0.765	0.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.345	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.694	0.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.576	1.7	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.890	2.6	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.170	4.9	100	0.00
65 TMP tert-Butylbenzene	2.141	2.089	2.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.415	2.5	100	0.00
67 TMP sec-Butylbenzene	3.103	3.076	0.9	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.636	1.3	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.407	1.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.427	2.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.361	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.155	0.0	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.994	-1.4	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.542	0.0	100	0.00
75 TMP Naphthalene	2.597	2.383	8.2	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.906	-0.2	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	46537	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	36436	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19498	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	12360	10.066	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery = 100.70%				
30) 1,2-Dichloroethane-d4	4.36	102	2901	10.333	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery = 103.30%				
35) Toluene-d8	5.98	98	44349	9.926	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery = 99.30%				
57) 4-Bromofluorobenzene	8.38	95	16547	10.052	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery = 100.50%				
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.08	85	63589	19.846	ppb	98	
5) Chloromethane	1.22	50	78665	19.148	ppb	95	
6] Vinyl chloride	1.29	62	67404	19.794	ppb	96	
7) Bromomethane	1.53	94	36911	21.535	ppb	71	
8] Chloroethane	1.60	64	30285	19.344	ppb	96	
9) Trichlorofluoromethane	1.79	101	77534	19.153	ppb	95	
10) 2-Propanol	2.40	45	206	No Calib			
11) Acetone	2.26	58	16444	94.914	ppb	91	
12] 1,1-Dichloroethene	2.19	96	21753	19.447	ppb	98	
13) Hexane	3.05	57	38661	19.153	ppb	98	
14) Methylene chloride	2.60	84	24299	19.409	ppb	97	
15) t-Butyl alcohol (TBA)	2.73	59	21321	99.207	ppb	98	
16] Methyl t-butyl ether (...)	2.84	73	67723	19.849	ppb	100	
17] trans-1,2-Dichloroethene	2.83	96	24187	19.091	ppb	84	
18) Diisopropyl ether (OIPE)	3.24	45	83844	19.331	ppb	98	
19] 1,1-Dichloroethane	3.18	63	45923	19.569	ppb	98	
20) Ethyl t-butyl ether (E...)	3.55	87	26650	19.346	ppb	97	
21) 2,2-Dichloropropane	3.66	77	26063	17.724	ppb	90	
22] cis-1,2-Dichloroethene	3.67	96	25792	19.353	ppb	90	
23) Chloroform	3.94	83	41867	18.861	ppb	95	
24) 2-Butanone (MEK)	3.70	43	78173	91.850	ppb	99	
25) t-Amyl methyl ether (T...)	4.49	73	62350	19.319	ppb	98	
26] 1,2-Dichloroethane (EDC)	4.41	62	36513	18.982	ppb	97	
27] 1,1,1-Trichloroethane	4.08	97	40205	19.627	ppb	95	
28) 1,1-Dichloropropene	4.22	75	32106	19.047	ppb	98	
29) Carbon tetrachloride	4.21	117	34292	20.073	ppb	95	
31] Benzene	4.39	78	90028	19.365	ppb	94	
32] Trichloroethene	4.93	95	28352	19.305	ppb	91	
33) 1,2-Dichloropropane	5.13	63	25854	18.751	ppb	100	
34) Bromodichloromethane	5.37	83	31570	18.979	ppb	96	
36) Dibromomethane	5.23	93	15827	20.136	ppb	94	

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

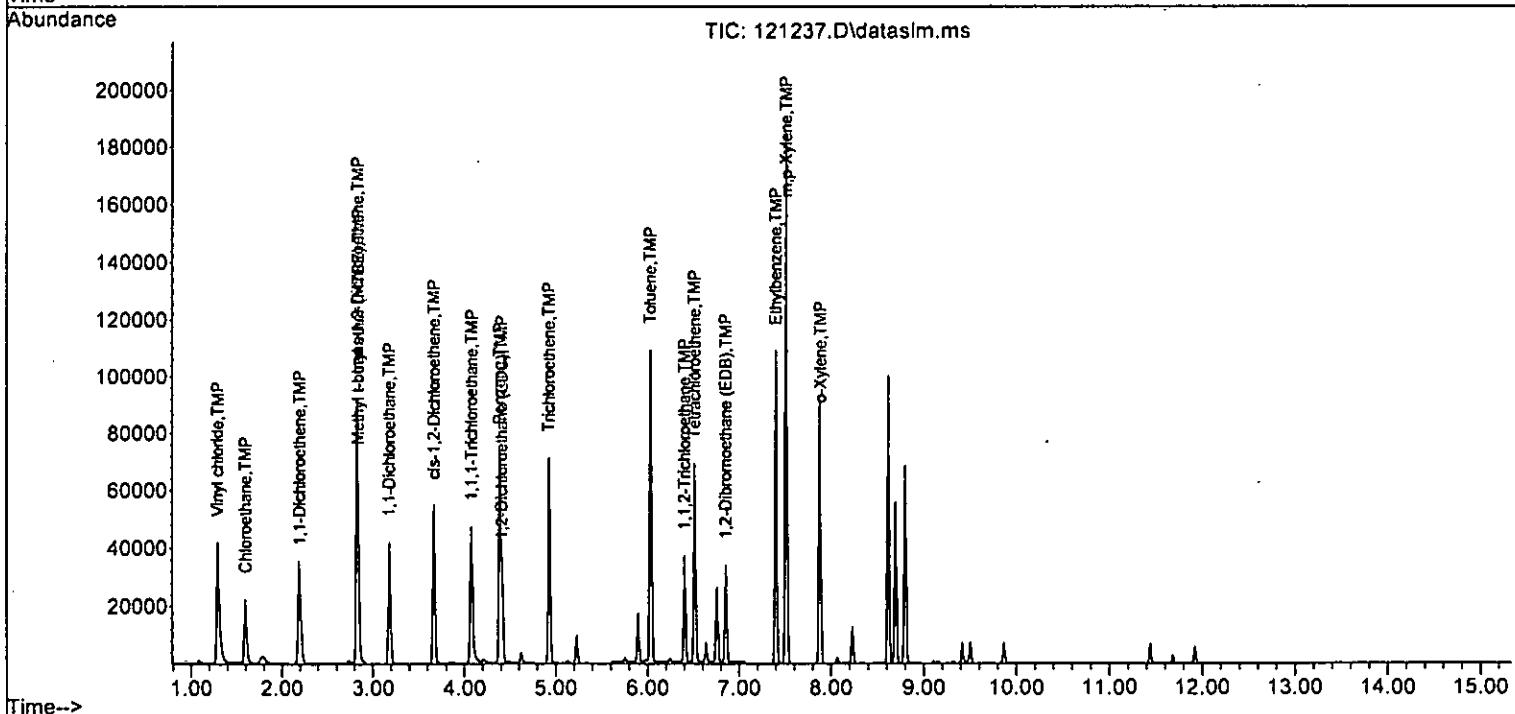
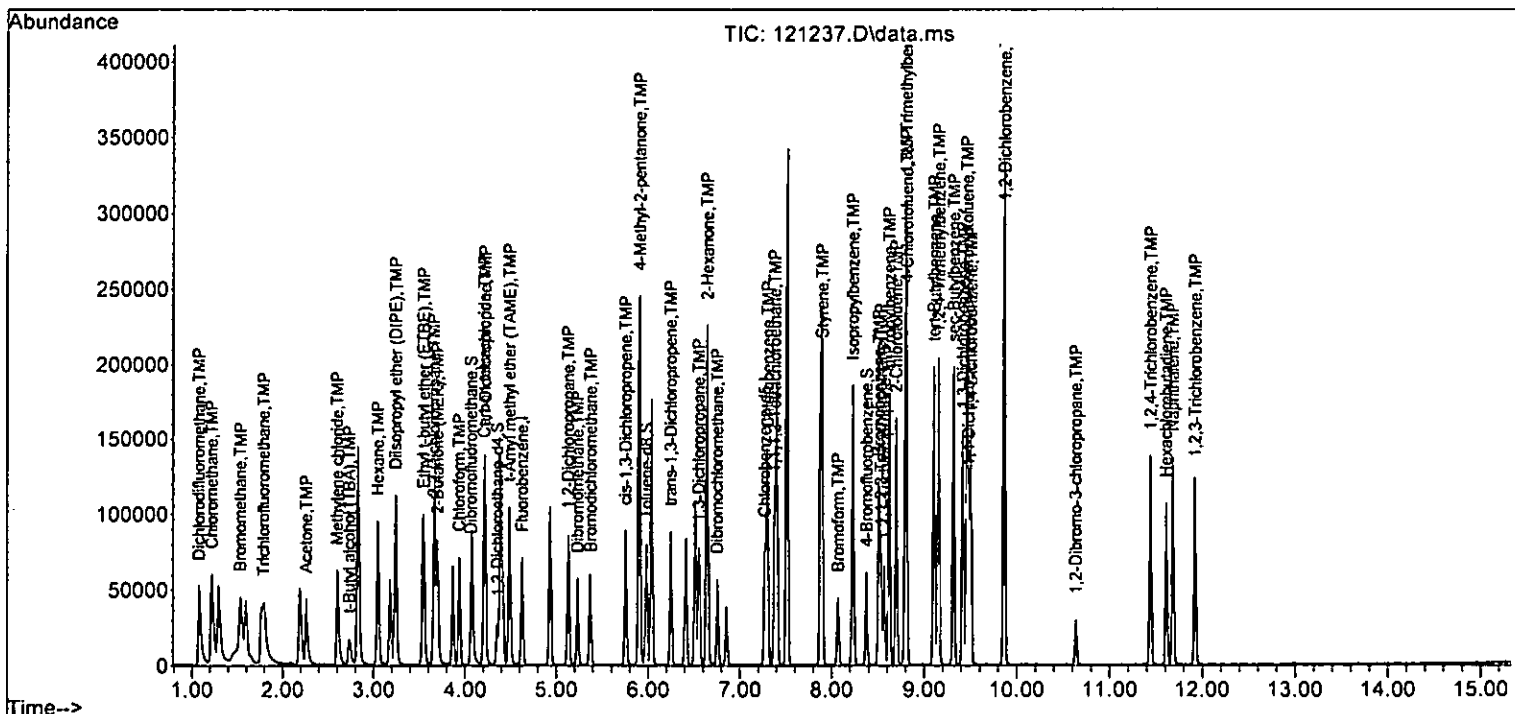
Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	23856	98.234	ppb	89
38) cis-1,3-Dichloropropene	5.75	75	38257	19.182	ppb	98
40] Toluene	6.03	92	59157	18.932	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	34368	19.505	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	18444	19.195	ppb	97
43) 2-Hexanone	6.64	43	119481	97.771	ppb	97
44) 1,3-Dichloropropane	6.55	76	33750	19.720	ppb	98
45] Tetrachloroethene	6.51	164	23226	18.629	ppb	99
46) Dibromochloromethane	6.75	129	25821	20.035	ppb	98
47] 1,2-Dibromoethane (EDB)	6.85	107	22821	19.134	ppb	99
48) Chlorobenzene	7.30	112	65636	19.471	ppb	98
49] Ethylbenzene	7.40	91	112510	19.163	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	23872	19.681	ppb	96
51] m,p-Xylene	7.51	106	84021	37.969	ppb #	71
52] o-Xylene	7.88	106	41746	19.259	ppb	98
53) Styrene	7.90	104	68247	19.253	ppb	98
54) Isopropylbenzene	8.23	105	108826	19.098	ppb	99
55) Bromoform	8.07	173	18043	19.634	ppb	91
58) n-Propylbenzene	8.62	91	124581	19.472	ppb	97
59) Bromobenzene	8.51	156	29827	19.854	ppb	96
60) 1,3,5-Trimethylbenzene	8.80	105	91430	19.197	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	27062	19.894	ppb	94
62) 1,2,3-Trichloropropane	8.57	75	22468	19.669	ppb	96
63) 2-Chlorotoluene	8.70	91	73715	19.483	ppb	100
64) 4-Chlorotoluene	8.81	91	84617	19.027	ppb	100
65) tert-Butylbenzene	9.10	119	81481	19.521	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	94194	19.510	ppb	100
67) sec-Butylbenzene	9.32	105	119935	19.824	ppb	98
68) p-Isopropyltoluene	9.46	119	102802	19.733	ppb	99
69) 1,3-Dichlorobenzene	9.42	146	54872	19.624	ppb	95
70) 1,4-Dichlorobenzene	9.51	146	55647	19.537	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	53070	19.726	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.63	75	6031	19.964	ppb	97
73) 1,2,4-Trichlorobenzene	11.44	180	38775	20.297	ppb	100
74) Hexachlorobutadiene	11.61	225	21132	20.013	ppb	96
75) Naphthalene	11.68	128	92933	18.353	ppb	96
76) 1,2,3-Trichlorobenzene	11.92	180	35330	20.045	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.932	0.7	100	0.00
4 TMP Dichlorodifluoromethane	50.000	50.117	-0.2	100	0.00
5 TMP Chloromethane	50.000	48.681	2.6	100	0.00
6 TMP Vinyl chloride	50.000	50.308	-0.6	100	0.00
7 TMP Bromomethane	50.000	52.732	-5.5	100	0.00
8 TMP Chloroethane	50.000	47.793	4.4	100	0.00
9 TMP Trichlorofluoromethane	50.000	50.171	-0.3	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-0.02
11 TMP Acetone	250.000	234.746	6.1	100	0.00
12 TMP 1,1-Dichloroethene	50.000	49.455	1.1	100	0.00
13 TMP Hexane	50.000	48.989	2.0	100	0.00
14 TMP Methylene chloride	50.000	48.544	2.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	250.000	241.695	3.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	50.000	49.919	0.2	100	0.00
17 TMP trans-1,2-Dichloroethene	50.000	47.920	4.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	50.000	49.444	1.1	100	0.00
19 TMP 1,1-Dichloroethane	50.000	49.817	0.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	50.000	50.377	-0.8	100	0.00
21 TMP 2,2-Dichloropropane	50.000	47.364	5.3	100	0.00
22 TMP cis-1,2-Dichloroethene	50.000	49.369	1.3	100	0.00
23 TMP Chloroform	50.000	47.951	4.1	100	0.00
24 TMP 2-Butanone (MEK)	250.000	233.064	6.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	50.000	49.524	1.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	50.000	48.150	3.7	100	0.00
27 TMP 1,1,1-Trichloroethane	50.000	50.544	-1.1	100	0.00
28 TMP 1,1-Dichloropropene	50.000	48.794	2.4	100	0.00
29 TMP Carbon tetrachloride	50.000	51.607	-3.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.036	-0.4	100	0.00
31 TMP Benzene	50.000	49.122	1.8	100	0.00
32 TMP Trichloroethene	50.000	49.788	0.4	100	0.00
33 TMP 1,2-Dichloropropane	50.000	48.366	3.3	100	0.00
34 TMP Bromodichloromethane	50.000	49.586	0.8	100	0.00
35 S Toluene-d8	10.000	10.306	-3.1	100	0.00
36 TMP Dibromomethane	50.000	51.229	-2.5	100	0.00
37 TMP 4-Methyl-2-pentanone	250.000	247.845	0.9	100	0.00
38 TMP cis-1,3-Dichloropropene	50.000	48.588	2.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	50.000	47.454	5.1	100	0.00
41 TMP trans-1,3-Dichloropropene	50.000	49.657	0.7	100	0.00
42 TMP 1,1,2-Trichloroethane	50.000	48.837	2.3	100	0.00
43 TMP 2-Hexanone	250.000	240.345	3.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	50.000	49.844	0.3	100	0.00
45 TMP Tetrachloroethene	50.000	46.828	6.3	100	0.00
46 TMP Dibromochloromethane	50.000	49.643	0.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	50.000	48.523	3.0	100	0.00
48 TMP Chlorobenzene	50.000	48.429	3.1	100	0.00
49 TMP Ethylbenzene	50.000	47.821	4.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	50.000	49.496	1.0	100	0.00
51 TMP m,p-Xylene	100.000	94.459	5.5	100	0.00
52 TMP o-Xylene	50.000	47.696	4.6	100	0.00
53 TMP Styrene	50.000	48.347	3.3	100	0.00
54 TMP Isopropylbenzene	50.000	48.121	3.8	100	0.00
55 TMP Bromoform	50.000	50.911	-1.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.701	3.0	100	0.00
58 TMP n-Propylbenzene	50.000	48.518	3.0	100	0.00
59 TMP Bromobenzene	50.000	49.460	1.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	50.000	47.614	4.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	50.000	48.728	2.5	100	0.00
62 TMP 1,2,3-Trichloropropane	50.000	48.135	3.7	100	0.00
63 TMP 2-Chlorotoluene	50.000	47.863	4.3	100	0.00
64 TMP 4-Chlorotoluene	50.000	47.608	4.8	100	0.00
65 TMP tert-Butylbenzene	50.000	49.036	1.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	50.000	48.151	3.7	100	0.00
67 TMP sec-Butylbenzene	50.000	49.132	1.7	100	0.00
68 TMP p-Isopropyltoluene	50.000	49.744	0.5	100	0.00
69 TMP 1,3-Dichlorobenzene	50.000	49.230	1.5	100	0.00
70 TMP 1,4-Dichlorobenzene	50.000	48.438	3.1	100	0.00
71 TMP 1,2-Dichlorobenzene	50.000	48.960	2.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	50.000	49.268	1.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	50.000	51.142	-2.3	100	0.00
74 TMP Hexachlorobutadiene	50.000	50.362	-0.7	100	0.00
75 TMP Naphthalene	50.000	45.598	8.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	50.000	50.171	-0.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.262	0.8	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.690	-0.3	100	0.00
5 TMP Chloromethane	0.883	0.860	2.6	100	0.00
6 TMP Vinyl chloride	0.732	0.736	-0.5	100	0.00
7 TMP Bromomethane	0.368	0.388	-5.4	100	0.00
8 TMP Chloroethane	0.336	0.322	4.2	100	0.00
9 TMP Trichlorofluoromethane	0.870	0.873	-0.3	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-0.02
11 TMP Acetone	0.037	0.035	5.4	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.238	0.8	100	0.00
13 TMP Hexane	0.434	0.425	2.1	100	0.00
14 TMP Methylene chloride	0.269	0.261	3.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.732	0.1	100	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.261	4.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.922	1.1	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.502	0.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.298	-0.7	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.299	5.4	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.283	1.0	100	0.00
23 TMP Chloroform	0.477	0.457	4.2	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.170	7.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.687	1.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.398	3.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.445	-1.1	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.353	2.5	100	0.00
29 TMP Carbon tetrachloride	0.367	0.379	-3.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP Benzene	0.999	0.981	1.8	100	0.00
32 TMP Trichloroethene	0.316	0.314	0.6	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.287	3.0	100	0.00
34 TMP Bromodichloromethane	0.357	0.354	0.8	100	0.00
35 S Toluene-d8	0.960	0.990	-3.1	100	0.00
36 TMP Dibromomethane	0.169	0.173	-2.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.052	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.416	3.0	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.814	5.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.480	0.8	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.258	2.3	100	0.00
43 TMP 2-Hexanone	0.335	0.322	3.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.468	0.4	100	0.00
45 TMP Tetrachloroethene	0.342	0.320	6.4	100	0.00
46 TMP Dibromochloromethane	0.354	0.351	0.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.318	2.8	100	0.00
48 TMP Chlorobenzene	0.925	0.896	3.1	100	0.00
49 TMP Ethylbenzene	1.611	1.541	4.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.330	0.9	100	0.00
51 TMP m,p-Xylene	0.607	0.574	5.4	100	0.00
52 TMP o-Xylene	0.595	0.567	4.7	100	0.00
53 TMP Styrene	0.973	0.941	3.3	100	0.00
54 TMP Isopropylbenzene	1.564	1.505	3.8	100	0.00
55 TMP Bromoform	0.252	0.257	-2.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.819	3.0	100	0.00
58 TMP n-Propylbenzene	3.281	3.184	3.0	100	0.00
59 TMP Bromobenzene	0.770	0.762	1.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.326	4.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.680	2.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.564	3.8	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.858	4.3	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.172	4.8	100	0.00
65 TMP tert-Butylbenzene	2.141	2.099	2.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.385	3.7	100	0.00
67 TMP sec-Butylbenzene	3.103	3.049	1.7	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.658	0.5	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.412	1.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.415	3.1	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.351	2.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.153	1.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.002	-2.2	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.545	-0.6	100	0.00
75 TMP Naphthalene	2.597	2.368	8.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.907	-0.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	46625	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	37972	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	20328	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	12218	9.932	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.30%
30) 1,2-Dichloroethane-d4	4.35	102	2823	10.036	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	100.40%
35) Toluene-d8	5.98	98	46137	10.306	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	103.10%
57) 4-Bromofluorobenzene	8.38	95	16649	9.701	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	97.00%
Target Compounds						
2) Ethanol	0.00		0	N.D.		Qvalue
4) Dichlorodifluoromethane	1.08	85	160882	50.117	ppb	99
5) Chloromethane	1.22	50	200371	48.681	ppb	99
6] Vinyl chloride	1.29	62	171639	50.308	ppb	94
7) Bromomethane	1.53	94	90556	52.732	ppb	68
8] Chloroethane	1.59	64	74967	47.793	ppb	99
9) Trichlorofluoromethane	1.79	101	203487	50.171	ppb	99
10) 2-Propanol	2.39	45	405	No Calib		
11) Acetone	2.25	58	40747	234.746	ppb	91
12] 1,1-Dichloroethene	2.19	96	55425	49.455	ppb	85
13) Hexane	3.05	57	99072	48.989	ppb	98
14) Methylene chloride	2.60	84	60890	48.544	ppb	97
15) t-Butyl alcohol (TBA)	2.73	59	52042	241.695	ppb	96
16] Methyl t-butyl ether (...)	2.83	73	170643	49.919	ppb	97
17] trans-1,2-Dichloroethene	2.82	96	60828	47.920	ppb	97
18) Diisopropyl ether (DIPE)	3.24	45	214860	49.444	ppb	99
19] 1,1-Dichloroethane	3.18	63	117130	49.817	ppb	100
20) Ethyl t-butyl ether (E...)	3.54	87	69528	50.377	ppb	97
21) 2,2-Dichloropropane	3.66	77	69780	47.364	ppb	95
22] cis-1,2-Dichloroethene	3.67	96	65920	49.369	ppb	86
23) Chloroform	3.94	83	106640	47.951	ppb	95
24) 2-Butanone (MEK)	3.70	43	198735	233.064	ppb	99
25) t-Amyl methyl ether (T...)	4.49	73	160139	49.524	ppb	97
26] 1,2-Dichloroethane (EDC)	4.41	62	92792	48.150	ppb	97
27] 1,1,1-Trichloroethane	4.08	97	103733	50.544	ppb	93
28) 1,1-Dichloropropene	4.22	75	82405	48.794	ppb	97
29) Carbon tetrachloride	4.21	117	88329	51.607	ppb	100
31] Benzene	4.39	78	228800	49.122	ppb	95
32] Trichloroethene	4.93	95	73258	49.788	ppb	88
33) 1,2-Dichloropropane	5.13	63	66814	48.366	ppb	98
34) Bromodichloromethane	5.37	83	82637	49.586	ppb	87
36) Dibromomethane	5.22	93	40342	51.229	ppb	88

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

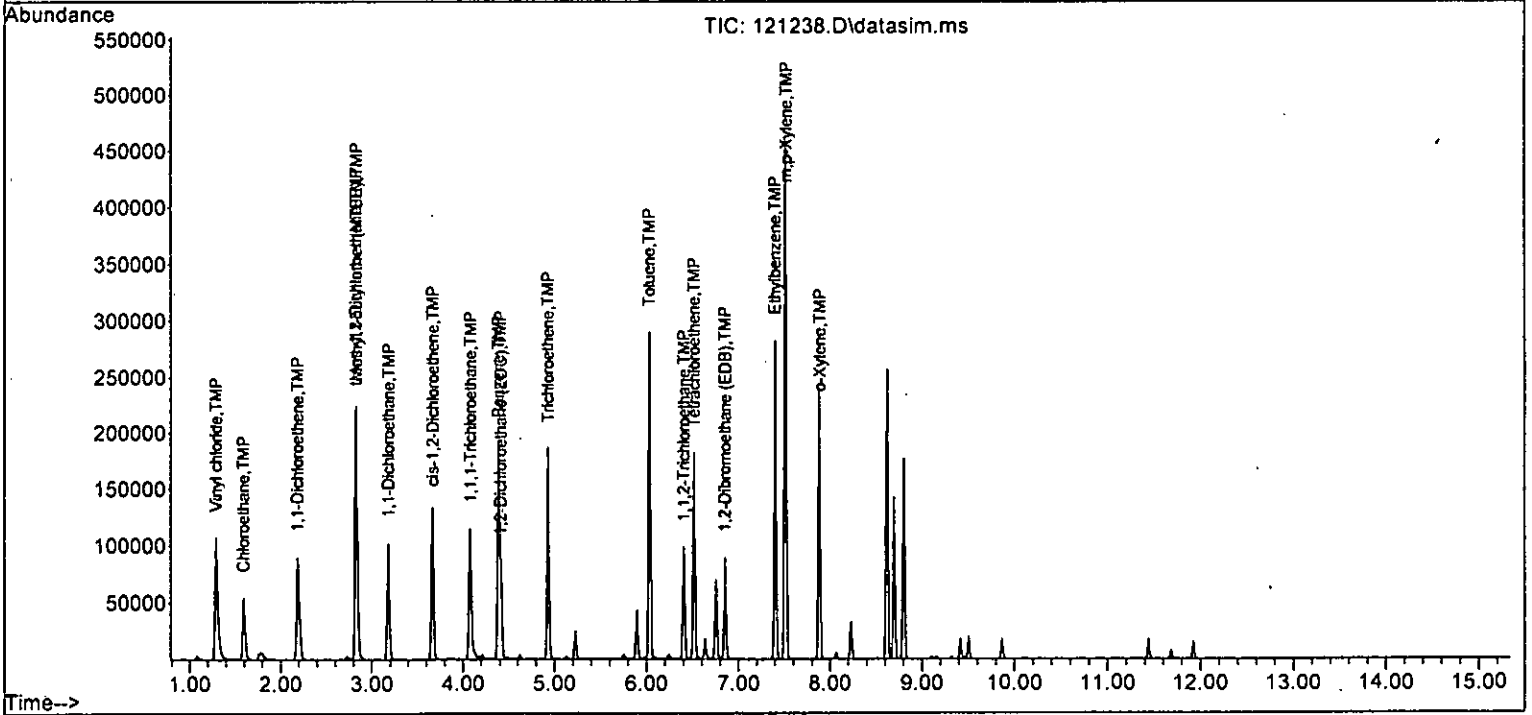
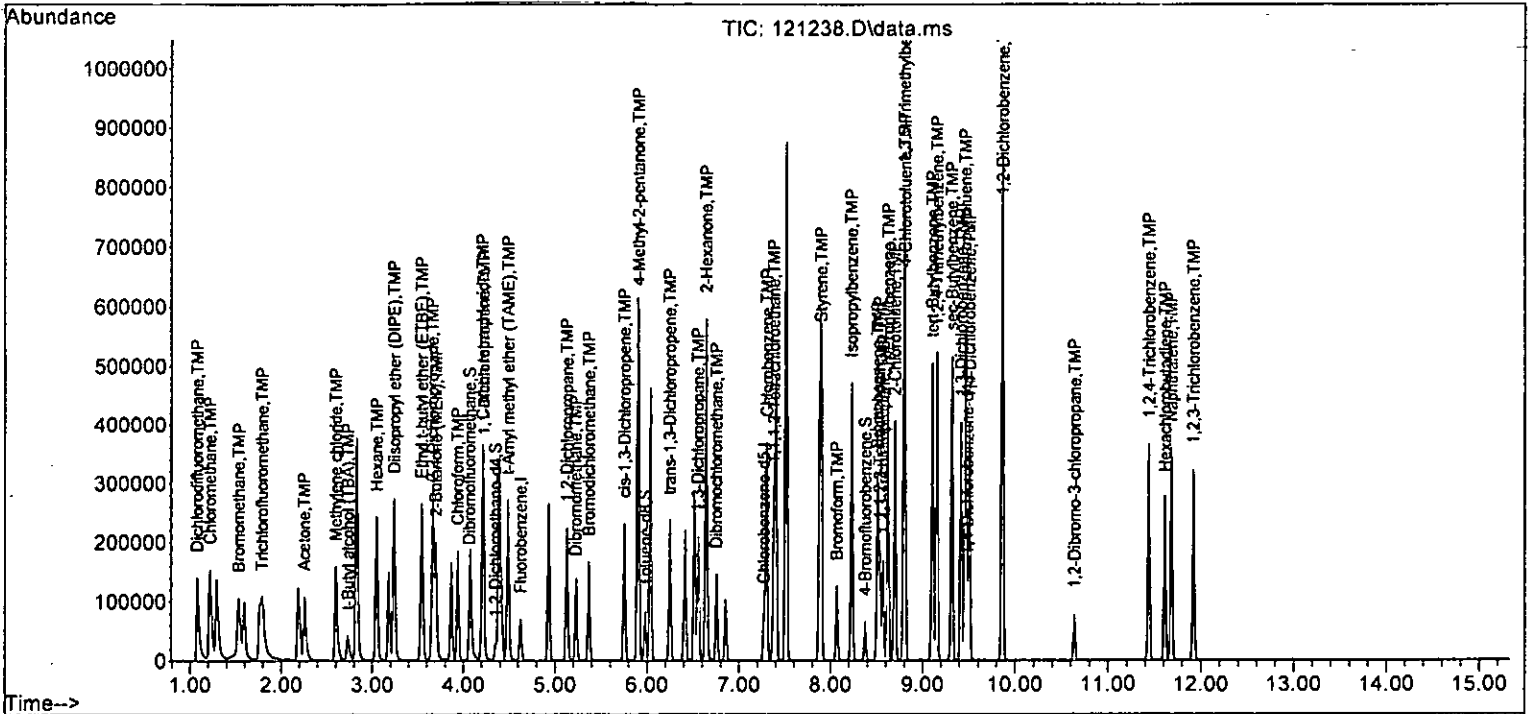
Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	60303	247.845	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	97086	48.588	ppb	99
40] Toluene	6.03	92	154527	47.454	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	91187	49.657	ppb	97
42] 1,1,2-Trichloroethane	6.40	83	48904	48.837	ppb	97
43) 2-Hexanone	6.64	43	306095	240.345	ppb	96
44) 1,3-Dichloropropane	6.55	76	88903	49.844	ppb	96
45] Tetrachloroethene	6.51	164	60846	46.828	ppb	98
46) Dibromochloromethane	6.75	129	66676	49.643	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	60311	48.523	ppb	99
48) Chlorobenzene	7.30	112	170131	48.429	ppb	99
49] Ethylbenzene	7.40	91	292600	47.821	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	62567	49.496	ppb	97
51] m,p-Xylene	7.52	106	217837	94.459	ppb	100
52] o-Xylene	7.89	106	107745	47.696	ppb	98
53) Styrene	7.90	104	178605	48.347	ppb	98
54) Isopropylbenzene	8.23	105	285775	48.121	ppb	98
55) Bromoform	8.07	173	48759	50.911	ppb	92
58) n-Propylbenzene	8.63	91	323625	48.518	ppb	95
59) Bromobenzene	8.51	156	77466	49.460	ppb	98
60) 1,3,5-Trimethylbenzene	8.80	105	236431	47.614	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.53	83	69108	48.728	ppb	97
62) 1,2,3-Trichloropropane	8.57	75	57325	48.135	ppb	96
63) 2-Chlorotoluene	8.70	91	188806	47.863	ppb	98
64) 4-Chlorotoluene	8.81	91	220731	47.608	ppb	97
65) tert-Butylbenzene	9.10	119	213389	49.036	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	242363	48.151	ppb	97
67) sec-Butylbenzene	9.32	105	309899	49.132	ppb	99
68) p-Isopropyltoluene	9.46	119	270183	49.744	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	143514	49.230	ppb	98
70) 1,4-Dichlorobenzene	9.51	146	143839	48.438	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	137330	48.960	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.64	75	15517	49.268	ppb	86
73) 1,2,4-Trichlorobenzene	11.44	180	101859	51.142	ppb	99
74) Hexachlorobutadiene	11.61	225	55442	50.362	ppb	91
75) Naphthalene	11.68	128	240720	45.598	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	92190	50.171	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

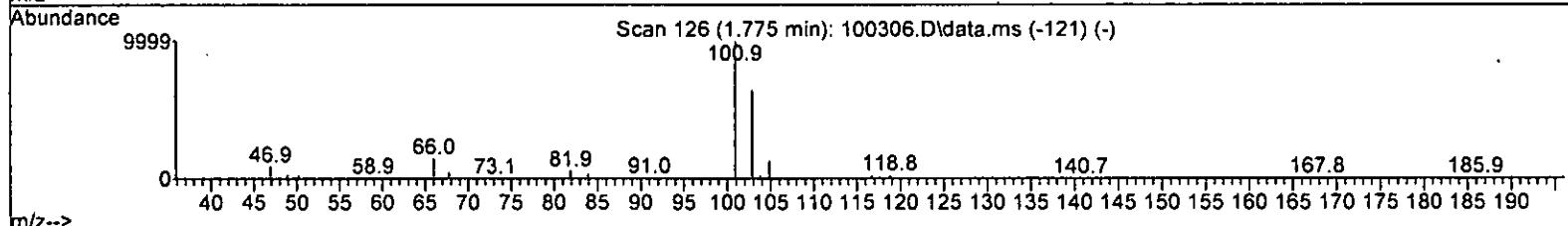
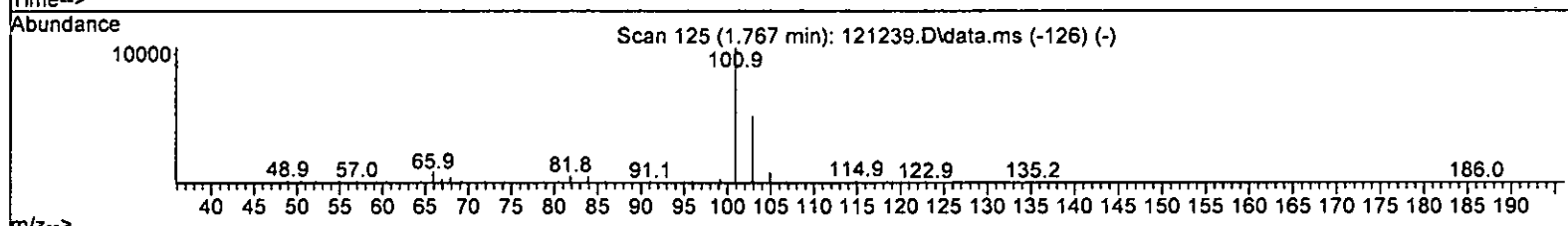
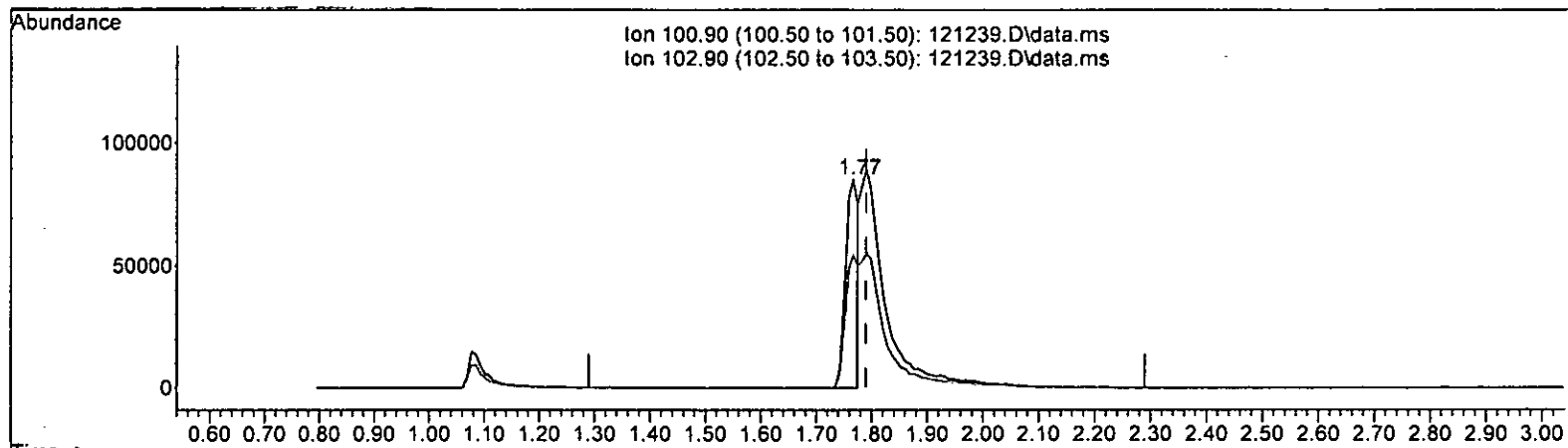
Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-25S  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121239.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 33.644 ppb

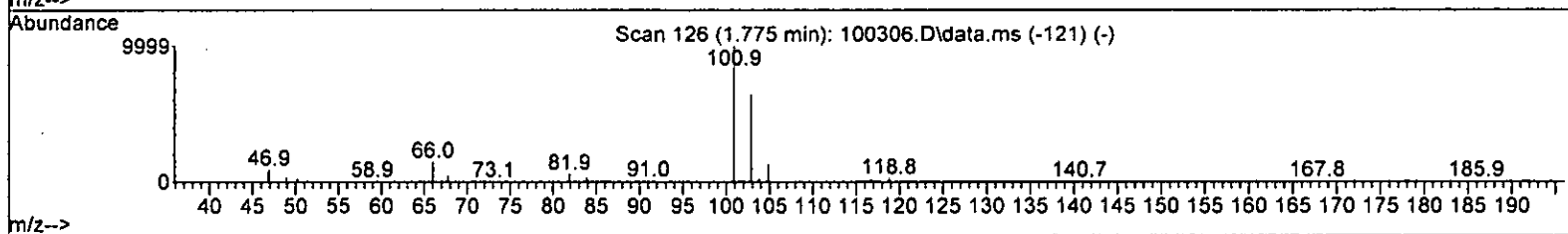
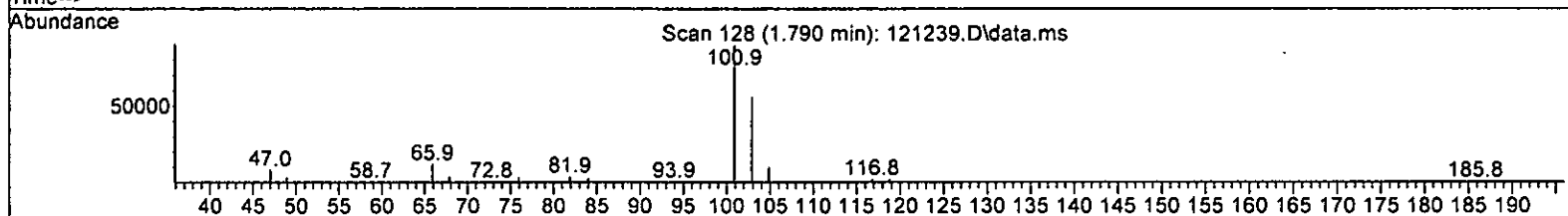
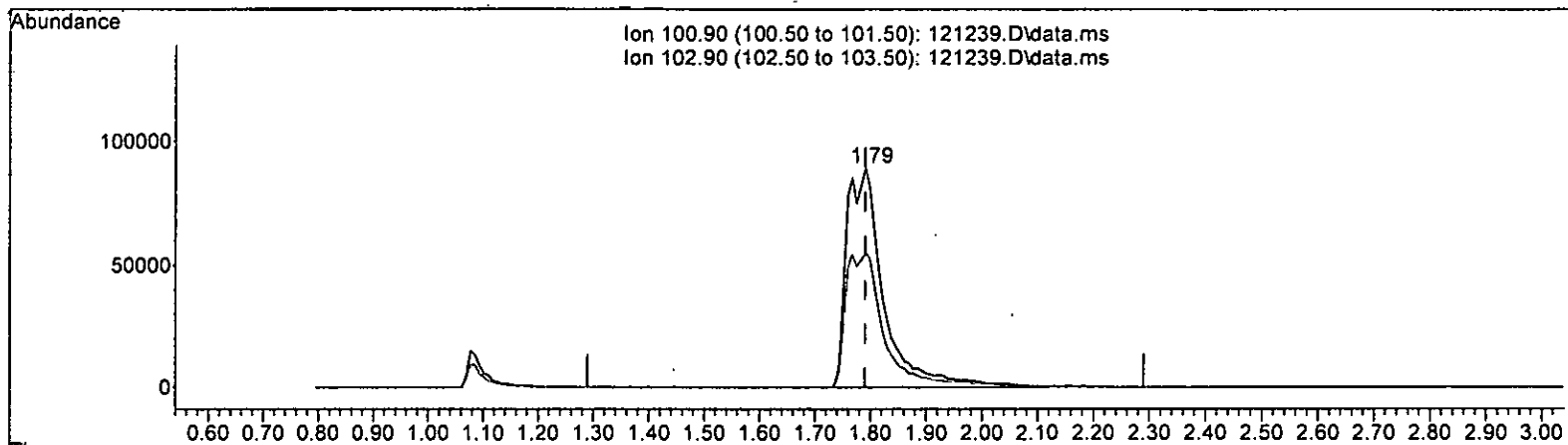
response	135279	
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	62.70	63.95
0.00	0.00	0.00
0.00	0.00	0.00

*17.15 pm*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121239.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.790min (+ 0.000) 106.307 ppb m

response	427456		
Ion	Exp%	Act%	
100.90	100.00	100.00	
102.90	62.70	61.61	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 LM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.02
3 S Dibromofluoromethane	10.000	10.279	-2.8	100	0.00
4 TMP Dichlorodifluoromethane	100.000	103.087	-3.1	100	0.00
5 TMP Chloromethane	100.000	98.069	1.9	100	0.00
6 TMP Vinyl chloride	100.000	100.209	-0.2	100	0.00
7 TMP Bromomethane	100.000	104.675	-4.7	100	0.00
8 TMP Chloroethane	100.000	100.075	-0.1	100	0.00
9 TMP Trichlorofluoromethane	100.000	106.307	-6.3	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-0.02
11 TMP Acetone	500.000	491.620	1.7	100	0.00
12 TMP 1,1-Dichloroethene	100.000	99.371	0.6	100	0.00
13 TMP Hexane	100.000	96.351	3.6	100	0.00
14 TMP Methylene chloride	100.000	93.876	6.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	500.000	492.995	1.4	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	100.000	98.763	1.2	100	0.00
17 TMP trans-1,2-Dichloroethene	100.000	94.626	5.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	100.000	97.185	2.8	100	0.00
19 TMP 1,1-Dichloroethane	100.000	98.632	1.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	100.000	100.902	-0.9	100	0.00
21 TMP 2,2-Dichloropropane	100.000	98.227	1.8	100	0.00
22 TMP cis-1,2-Dichloroethene	100.000	97.600	2.4	100	0.00
23 TMP Chloroform	100.000	95.586	4.4	100	0.00
24 TMP 2-Butanone (MEK)	500.000	489.680	2.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	100.000	99.045	1.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	100.000	95.242	4.8	100	0.00
27 TMP 1,1,1-Trichloroethane	100.000	100.907	-0.9	100	0.00
28 TMP 1,1-Dichloropropene	100.000	96.971	3.0	100	0.00
29 TMP Carbon tetrachloride	100.000	105.419	-5.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.126	-1.3	100	0.00
31 TMP Benzene	100.000	97.414	2.6	100	0.00
32 TMP Trichloroethene	100.000	100.492	-0.5	100	0.00
33 TMP 1,2-Dichloropropane	100.000	97.766	2.2	100	0.00
34 TMP Bromodichloromethane	100.000	99.778	0.2	100	0.00
35 S Toluene-d8	10.000	9.928	0.7	100	0.00
36 TMP Dibromomethane	100.000	101.336	-1.3	100	0.00
37 TMP 4-Methyl-2-pentanone	500.000	480.685	3.9	100	0.00
38 TMP cis-1,3-Dichloropropene	100.000	97.638	2.4	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	100.000	96.307	3.7	100	0.00
41 TMP trans-1,3-Dichloropropene	100.000	101.229	-1.2	100	0.00
42 TMP 1,1,2-Trichloroethane	100.000	98.144	1.9	100	0.00
43 TMP 2-Hexanone	500.000	461.458	7.7	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	100.000	98.108	1.9	100	0.00
45 TMP Tetrachloroethene	100.000	95.015	5.0	100	0.00
46 TMP Dibromochloromethane	100.000	103.069	-3.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	100.000	98.059	1.9	100	0.00
48 TMP Chlorobenzene	100.000	99.732	0.3	100	0.00
49 TMP Ethylbenzene	100.000	96.325	3.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	100.000	104.318	-4.3	100	0.00
51 TMP m,p-Xylene	200.000	189.776	5.1	100	0.00
52 TMP o-Xylene	100.000	96.435	3.6	100	0.00
53 TMP Styrene	100.000	98.020	2.0	100	0.00
54 TMP Isopropylbenzene	100.000	97.670	2.3	100	0.00
55 TMP Bromoform	100.000	104.341	-4.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.021	-0.2	100	0.00
58 TMP n-Propylbenzene	100.000	96.073	3.9	100	0.00
59 TMP Bromobenzene	100.000	98.094	1.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	100.000	95.787	4.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	100.000	94.762	5.2	100	0.00
62 TMP 1,2,3-Trichloropropane	100.000	93.177	6.8	100	0.00
63 TMP 2-Chlorotoluene	100.000	96.010	4.0	100	0.00
64 TMP 4-Chlorotoluene	100.000	94.476	5.5	100	0.00
65 TMP tert-Butylbenzene	100.000	98.702	1.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	100.000	96.517	3.5	100	0.00
67 TMP sec-Butylbenzene	100.000	97.977	2.0	100	0.00
68 TMP p-Isopropyltoluene	100.000	99.887	0.1	100	0.00
69 TMP 1,3-Dichlorobenzene	100.000	96.675	3.3	100	0.00
70 TMP 1,4-Dichlorobenzene	100.000	95.298	4.7	100	0.00
71 TMP 1,2-Dichlorobenzene	100.000	96.795	3.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	100.000	99.737	0.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	100.000	104.517	-4.5	100	0.00
74 TMP Hexachlorobutadiene	100.000	101.761	-1.8	100	0.00
75 TMP Naphthalene	100.000	93.202	6.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	100.000	103.850	-3.8	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAI 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	100	0.02
3 S	Dibromofluoromethane	0.264	0.271	-2.7	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.710	-3.2	100	0.00
5 TMP	Chloromethane	0.883	0.866	1.9	100	0.00
6 TMP	Vinyl chloride	0.732	0.733	-0.1	100	0.00
7 TMP	Bromomethane	0.368	0.386	-4.9	100	0.00
8 TMP	Chloroethane	0.336	0.337	-0.3	100	0.00
9 TMP	Trichlorofluoromethane	0.870	0.925	-6.3	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-0.02
11 TMP	Acetone	0.037	0.037	0.0	100	0.00
12 TMP	1,1-Dichloroethene	0.240	0.239	0.4	100	0.00
13 TMP	Hexane	0.434	0.418	3.7	100	0.00
14 TMP	Methylene chloride	0.269	0.253	5.9	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.724	1.2	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.258	5.1	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.906	2.8	100	0.00
19 TMP	1,1-Dichloroethane	0.504	0.497	1.4	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.299	-1.0	100	0.00
21 TMP	2,2-Dichloropropane	0.316	0.310	1.9	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.280	2.1	100	0.00
23 TMP	Chloroform	0.477	0.456	4.4	100	0.00
24 TMP	2-Butanone (MEK)	0.183	0.179	2.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.687	1.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.394	4.6	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.444	-0.9	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.351	3.0	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.387	-5.4	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	0.999	0.973	2.6	100	0.00
32 TMP	Trichloroethene	0.316	0.317	-0.3	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.290	2.0	100	0.00
34 TMP	Bromodichloromethane	0.357	0.357	0.0	100	0.00
35 S	Toluene-d8	0.960	0.953	0.7	100	0.00
36 TMP	Dibromomethane	0.169	0.171	-1.2	100	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.050	3.8	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.418	2.6	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.858	0.826	3.7	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.484	0.490	-1.2	100	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.259	1.9	100	0.00
43 TMP	2-Hexanone	0.335	0.310	7.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.461	1.9	100	0.00
45 TMP Tetrachloroethene	0.342	0.325	5.0	100	0.00
46 TMP Dibromochloromethane	0.354	0.365	-3.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.321	1.8	100	0.00
48 TMP Chlorobenzene	0.925	0.923	0.2	100	0.00
49 TMP Ethylbenzene	1.611	1.552	3.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.347	-4.2	100	0.00
51 TMP m,p-Xylene	0.607	0.576	5.1	100	0.00
52 TMP o-Xylene	0.595	0.574	3.5	100	0.00
53 TMP Styrene	0.973	0.954	2.0	100	0.00
54 TMP Isopropylbenzene	1.564	1.528	2.3	100	0.00
55 TMP Bromoform	0.252	0.263	-4.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.846	-0.2	100	0.00
58 TMP n-Propylbenzene	3.281	3.152	3.9	100	0.00
59 TMP Bromobenzene	0.770	0.756	1.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.340	4.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.661	5.3	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.546	6.8	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.863	4.0	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.155	5.5	100	0.00
65 TMP tert-Butylbenzene	2.141	2.113	1.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.390	3.5	100	0.00
67 TMP sec-Butylbenzene	3.103	3.040	2.0	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.669	0.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.386	3.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.392	4.7	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.336	3.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.155	0.0	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.024	-4.5	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.551	-1.7	100	0.00
75 TMP Naphthalene	2.597	2.420	6.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.939	-3.9	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	46224	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	36627	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19904	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12536	10.279	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.80%	
30) 1,2-Dichloroethane-d4	4.36	102	2824	10.126	ppb	0.00	
Spiked Amount	10.000	Range	79 - 128	Recovery	=	101.30%	
35) Toluene-d8	5.98	98	44060	9.928	ppb	0.00	
Spiked Amount	10.000	Range	84 - 121	Recovery	=	99.30%	
57) 4-Bromofluorobenzene	8.38	95	16839	10.021	ppb	0.00	
Spiked Amount	10.000	Range	84 - 116	Recovery	=	100.20%	
Target Compounds							
							Qvalue
2) Ethanol	1.88	45	55	No Calib			
4) Dichlorodifluoromethane	1.08	85	328077	103.087	ppb		99
5) Chloromethane	1.22	50	400177	98.069	ppb		99
6) Vinyl chloride	1.29	62	338951	100.209	ppb		97
7) Bromomethane	1.53	94	178210	104.675	ppb		67
8) Chloroethane	1.59	64	155625	100.075	ppb		100
9) Trichlorofluoromethane	1.79	101	427456m	106.307	ppb		
10) 2-Propanol	2.39	45	473	No Calib			
11) Acetone	2.25	58	84601	491.620	ppb		96
12) 1,1-Dichloroethene	2.18	96	110409	99.371	ppb	#	80
13) Hexane	3.05	57	193177	96.351	ppb		98
14) Methylene chloride	2.60	84	116739	93.876	ppb		96
15) t-Butyl alcohol (TBA)	2.73	59	105239	492.995	ppb		98
16) Methyl t-butyl ether (...)	2.83	73	334705	98.763	ppb		96
17) trans-1,2-Dichloroethene	2.82	96	119081	94.626	ppb		100
18) Diisopropyl ether (DIPE)	3.24	45	418686	97.185	ppb		97
19) 1,1-Dichloroethane	3.18	63	229909	98.632	ppb		99
20) Ethyl t-butyl ether (E...)	3.54	87	138062	100.902	ppb		97
21) 2,2-Dichloropropane	3.66	77	143469	98.227	ppb		92
22) cis-1,2-Dichloroethene	3.67	96	129200	97.600	ppb		89
23) Chloroform	3.94	83	210748	95.586	ppb		96
24) 2-Butanone (MEK)	3.70	43	413961	489.680	ppb		99
25) t-Amyl methyl ether (T...)	4.49	73	317512	99.045	ppb		99
26) 1,2-Dichloroethane (EDC)	4.41	62	181967	95.242	ppb		97
27) 1,1,1-Trichloroethane	4.08	97	205311	100.907	ppb		94
28) 1,1-Dichloropropene	4.22	75	162360	96.971	ppb		99
29) Carbon tetrachloride	4.21	117	178880	105.419	ppb		100
31) Benzene	4.38	78	449827	97.414	ppb		93
32) Trichloroethene	4.93	95	146592	100.492	ppb		92
33) 1,2-Dichloropropane	5.13	63	133896	97.766	ppb		98
34) Bromodichloromethane	5.37	83	164852	99.778	ppb		92
36) Dibromomethane	5.23	93	79115	101.336	ppb		97

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-25S  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

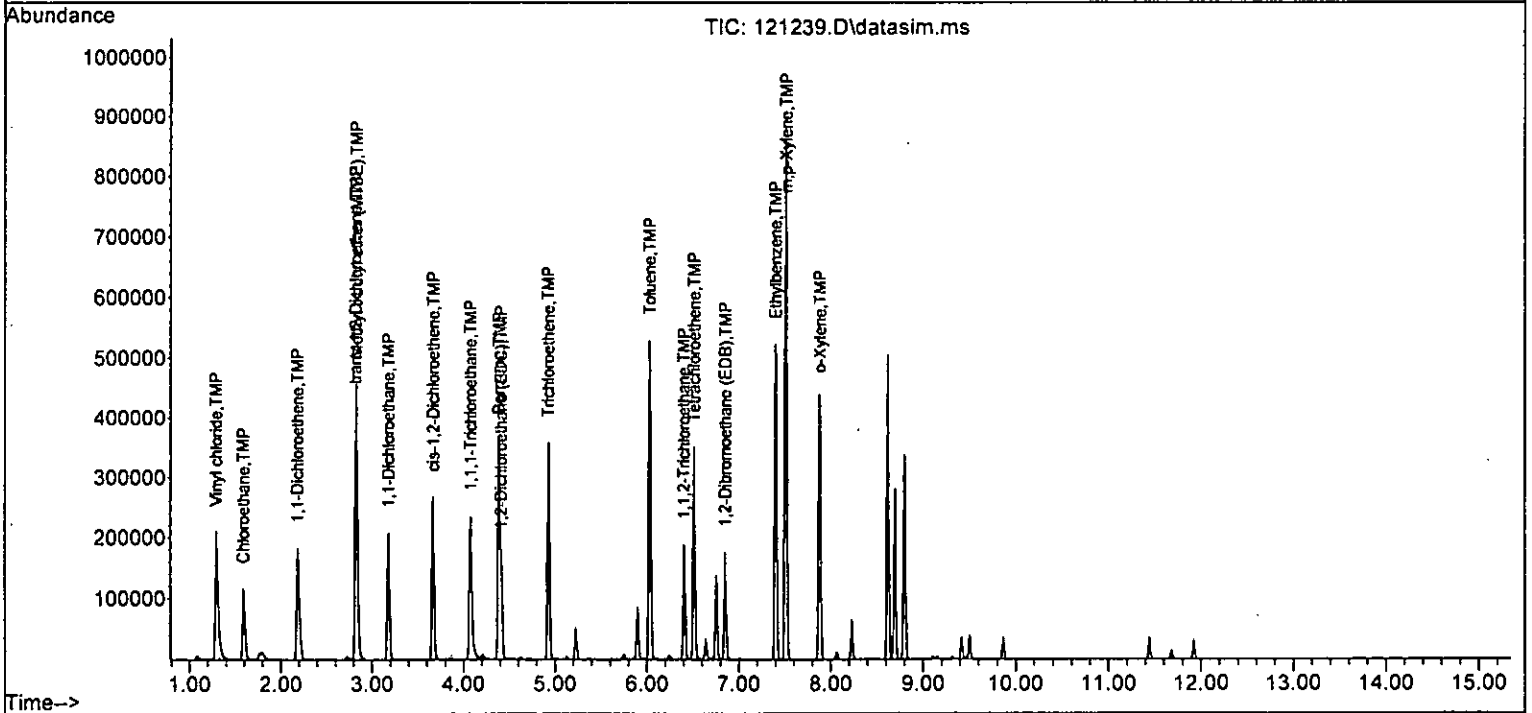
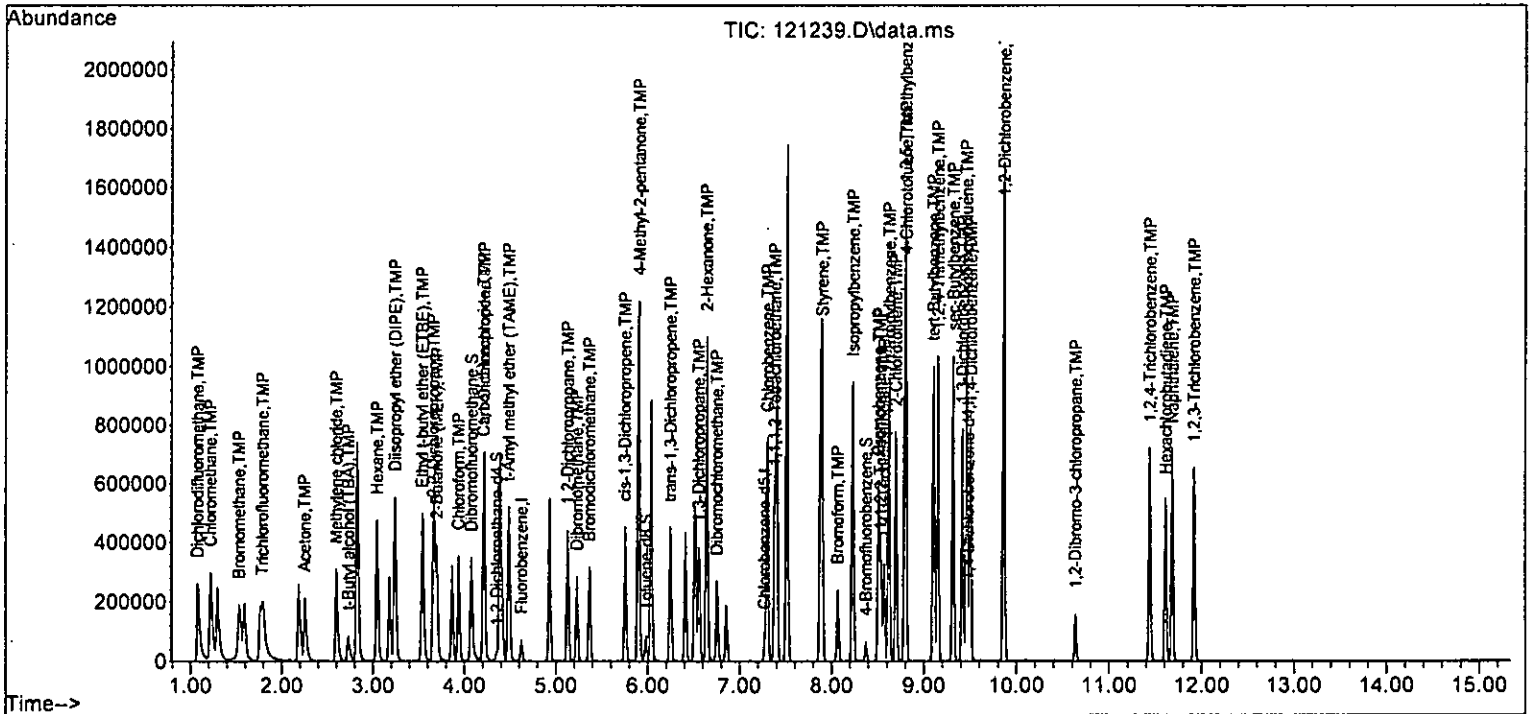
Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	115949	480.685	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	193419	97.638	ppb	98
40] Toluene	6.03	92	302504	96.307	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	179305	101.229	ppb	97
42] 1,1,2-Trichloroethane	6.40	83	94797	98.144	ppb	99
43) 2-Hexanone	6.64	43	566880	461.458	ppb	97
44) 1,3-Dichloropropane	6.55	76	168788	98.108	ppb	99
45] Tetrachloroethene	6.51	164	119084	95.015	ppb	99
46) Dibromochloromethane	6.75	129	133529	103.069	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	117565	98.059	ppb	100
48) Chlorobenzene	7.30	112	337948	99.732	ppb	99
49] Ethylbenzene	7.40	91	568500	96.325	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	127197	104.318	ppb	95
51] m,p-Xylene	7.52	106	422151	189.776	ppb	98
52] o-Xylene	7.88	106	210130	96.435	ppb	97
53) Styrene	7.90	104	349287	98.020	ppb	97
54) Isopropylbenzene	8.23	105	559484	97.670	ppb	98
55) Bromoform	8.07	173	96391	104.341	ppb	95
58) n-Propylbenzene	8.63	91	627453	96.073	ppb	94
59) Bromobenzene	8.51	156	150434	98.094	ppb	97
60) 1,3,5-Trimethylbenzene	8.80	105	465716	95.787	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	131592	94.762	ppb	96
62) 1,2,3-Trichloropropane	8.57	75	108652	93.177	ppb	96
63) 2-Chlorotoluene	8.70	91	370831	96.010	ppb	99
64) 4-Chlorotoluene	8.81	91	428893	94.476	ppb	99
65) tert-Butylbenzene	9.10	119	420561	98.702	ppb	98
66) 1,2,4-Trimethylbenzene	9.15	105	475679	96.517	ppb	98
67) sec-Butylbenzene	9.32	105	605103	97.977	ppb	99
68) p-Isopropyltoluene	9.46	119	531214	99.887	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	275947	96.675	ppb	98
70) 1,4-Dichlorobenzene	9.51	146	277090	95.298	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	265839	96.795	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.64	75	30757	99.737	ppb	83
73) 1,2,4-Trichlorobenzene	11.44	180	203824	104.517	ppb	97
74) Hexachlorobutadiene	11.61	225	109690	101.761	ppb	95
75) Naphthalene	11.68	128	481763	93.202	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	186847	103.850	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.864	1.4	100	0.00
4 TMP Dichlorodifluoromethane	150.000	157.348	-4.9	100	0.00
5 TMP Chloromethane	150.000	147.059	2.0	100	0.00
6 TMP Vinyl chloride	150.000	151.013	-0.7	100	0.00
7 TMP Bromomethane	150.000	154.661	-3.1	100	0.00
8 TMP Chloroethane	150.000	141.583	5.6	100	0.00
9 TMP Trichlorofluoromethane	150.000	161.528	-7.7	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	750.000	750.266	-0.0	100	0.00
12 TMP 1,1-Dichloroethene	150.000	150.515	-0.3	100	0.00
13 TMP Hexane	150.000	144.867	3.4	100	0.00
14 TMP Methylene chloride	150.000	142.028	5.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	750.000	769.304	-2.6	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	150.000	148.506	1.0	100	0.00
17 TMP trans-1,2-Dichloroethene	150.000	142.672	4.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	150.000	146.936	2.0	100	0.00
19 TMP 1,1-Dichloroethane	150.000	148.289	1.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	150.000	150.897	-0.6	100	0.00
21 TMP 2,2-Dichloropropane	150.000	142.851	4.8	100	0.00
22 TMP cis-1,2-Dichloroethene	150.000	147.232	1.8	100	0.00
23 TMP Chloroform	150.000	146.112	2.6	100	0.00
24 TMP 2-Butanone (MEK)	750.000	745.033	0.7	100	0.00
25 TMP t-Amyl methyl ether (TAME)	150.000	146.873	2.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	150.000	143.753	4.2	100	0.00
27 TMP 1,1,1-Trichloroethane	150.000	153.408	-2.3	100	0.00
28 TMP 1,1-Dichloropropene	150.000	146.263	2.5	100	0.00
29 TMP Carbon tetrachloride	150.000	162.724	-8.5	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.908	0.9	100	0.00
31 TMP Benzene	150.000	147.073	2.0	100	0.00
32 TMP Trichloroethene	150.000	152.545	-1.7	100	0.00
33 TMP 1,2-Dichloropropane	150.000	146.158	2.6	100	0.00
34 TMP Bromodichloromethane	150.000	154.015	-2.7	100	0.00
35 S Toluene-d8	10.000	9.972	0.3	100	0.00
36 TMP Dibromomethane	150.000	154.323	-2.9	100	0.00
37 TMP 4-Methyl-2-pentanone	750.000	738.409	1.5	100	0.00
38 TMP cis-1,3-Dichloropropene	150.000	148.299	1.1	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	150.000	148.909	0.7	100	0.00
41 TMP trans-1,3-Dichloropropene	150.000	158.386	-5.6	100	0.00
42 TMP 1,1,2-Trichloroethane	150.000	153.831	-2.6	100	0.00
43 TMP 2-Hexanone	750.000	720.241	4.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	150.000	153.253	-2.2	100	0.00
45 TMP Tetrachloroethene	150.000	147.548	1.6	100	0.00
46 TMP Dibromochloromethane	150.000	163.093	-8.7	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	150.000	153.058	-2.0	100	0.00
48 TMP Chlorobenzene	150.000	154.996	-3.3	100	0.00
49 TMP Ethylbenzene	150.000	148.374	1.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	150.000	161.615	-7.7	100	0.00
51 TMP m,p-Xylene	300.000	294.148	2.0	100	0.00
52 TMP o-Xylene	150.000	149.783	0.1	100	0.00
53 TMP Styrene	150.000	152.583	-1.7	100	0.00
54 TMP Isopropylbenzene	150.000	152.556	-1.7	100	0.00
55 TMP Bromoform	150.000	167.050	-11.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.604	-6.0	100	0.00
58 TMP n-Propylbenzene	150.000	149.893	0.1	100	0.00
59 TMP Bromobenzene	150.000	154.222	-2.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	150.000	148.178	1.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	150.000	147.638	1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	150.000	147.268	1.8	100	0.00
63 TMP 2-Chlorotoluene	150.000	148.863	0.8	100	0.00
64 TMP 4-Chlorotoluene	150.000	147.049	2.0	100	0.00
65 TMP tert-Butylbenzene	150.000	154.977	-3.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	150.000	151.478	-1.0	100	0.00
67 TMP sec-Butylbenzene	150.000	153.498	-2.3	100	0.00
68 TMP p-Isopropyltoluene	150.000	155.786	-3.9	100	0.00
69 TMP 1,3-Dichlorobenzene	150.000	151.079	-0.7	100	0.00
70 TMP 1,4-Dichlorobenzene	150.000	149.089	0.6	100	0.00
71 TMP 1,2-Dichlorobenzene	150.000	151.392	-0.9	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	150.000	162.204	-8.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	150.000	166.038	-10.7	100	0.00
74 TMP Hexachlorobutadiene	150.000	159.359	-6.2	100	0.00
75 TMP Naphthalene	150.000	151.154	-0.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	150.000	166.297	-10.9	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.260	1.5	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.722	-4.9	100	0.00
5 TMP	Chloromethane	0.883	0.865	2.0	100	0.00
6 TMP	Vinyl chloride	0.732	0.737	-0.7	100	0.00
7 TMP	Bromomethane	0.368	0.380	-3.3	100	0.00
8 TMP	Chloroethane	0.336	0.318	5.4	100	0.00
9 TMP	Trichlorofluoromethane	0.870	0.937	-7.7	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.037	0.0	100	0.00
12 TMP	1,1-Dichloroethene	0.240	0.241	-0.4	100	0.00
13 TMP	Hexane	0.434	0.419	3.5	100	0.00
14 TMP	Methylene chloride	0.269	0.255	5.2	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.047	-2.2	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.726	1.0	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.259	4.8	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.913	2.0	100	0.00
19 TMP	1,1-Dichloroethane	0.504	0.499	1.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.298	-0.7	100	0.00
21 TMP	2,2-Dichloropropane	0.316	0.301	4.7	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.281	1.7	100	0.00
23 TMP	Chloroform	0.477	0.465	2.5	100	0.00
24 TMP	2-Butanone (MEK)	0.183	0.182	0.5	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.679	2.2	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.396	4.1	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.450	-2.3	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.353	2.5	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.398	-8.4	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP	Benzene	0.999	0.979	2.0	100	0.00
32 TMP	Trichloroethene	0.316	0.321	-1.6	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.289	2.4	100	0.00
34 TMP	Bromodichloromethane	0.357	0.367	-2.8	100	0.00
35 S	Toluene-d8	0.960	0.957	0.3	100	0.00
36 TMP	Dibromomethane	0.169	0.174	-3.0	100	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.424	1.2	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.858	0.851	0.8	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.484	0.511	-5.6	100	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.270	-2.3	100	0.00
43 TMP	2-Hexanone	0.335	0.322	3.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.480	-2.1	100	0.00
45 TMP Tetrachloroethene	0.342	0.337	1.5	100	0.00
46 TMP Dibromochloromethane	0.354	0.385	-8.8	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.334	-2.1	100	0.00
48 TMP Chlorobenzene	0.925	0.956	-3.4	100	0.00
49 TMP Ethylbenzene	1.611	1.594	1.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.359	-7.8	100	0.00
51 TMP m,p-Xylene	0.607	0.595	2.0	100	0.00
52 TMP o-Xylene	0.595	0.594	0.2	100	0.00
53 TMP Styrene	0.973	0.990	-1.7	100	0.00
54 TMP Isopropylbenzene	1.564	1.591	-1.7	100	0.00
55 TMP Bromoform	0.252	0.281	-11.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.895	-6.0	100	0.00
58 TMP n-Propylbenzene	3.281	3.279	0.1	100	0.00
59 TMP Bromobenzene	0.770	0.792	-2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.413	1.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.687	1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.575	1.9	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.926	0.8	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.236	2.0	100	0.00
65 TMP tert-Butylbenzene	2.141	2.212	-3.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.501	-1.0	100	0.00
67 TMP sec-Butylbenzene	3.103	3.175	-2.3	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.775	-3.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.444	-0.7	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.452	0.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.393	-0.9	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.168	-8.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.085	-10.7	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.575	-6.1	100	0.00
75 TMP Naphthalene	2.597	2.617	-0.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	1.002	-10.8	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	46540	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	36065	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19550	10.000	ppb	# 0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	12113	9.864	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.60%
30) 1,2-Dichloroethane-d4	4.35	102	2782	9.908	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	99.10%
35) Toluene-d8	5.98	98	44558	9.972	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	99.70%
57) 4-Bromofluorobenzene	8.38	95	17502	10.604	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	106.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.08	85	504188	157.348	ppb	99
5) Chloromethane	1.22	50	604187	147.059	ppb	99
6) Vinyl chloride	1.29	62	514284	151.013	ppb	94
7) Bromomethane	1.53	94	265112	154.661	ppb	69
8) Chloroethane	1.59	64	221680	141.583	ppb	98
9) Trichlorofluoromethane	1.79	101	653937	161.528	ppb	99
10) 2-Propanol	2.40	45	537	No Calib		
11) Acetone	2.25	58	129993	750.266	ppb	93
12) 1,1-Dichloroethene	2.19	96	168377	150.515	ppb	85
13) Hexane	3.05	57	292433	144.867	ppb	98
14) Methylene chloride	2.60	84	177825	142.028	ppb	95
15) t-Butyl alcohol (TBA)	2.73	59	165345	769.304	ppb	99
16) Methyl t-butyl ether (...)	2.83	73	506723	148.506	ppb	97
17) trans-1,2-Dichloroethene	2.82	96	180772	142.672	ppb	97
18) Diisopropyl ether (DIPE)	3.24	45	637349	146.936	ppb	98
19) 1,1-Dichloroethane	3.18	63	348023	148.289	ppb	100
20) Ethyl t-butyl ether (E...)	3.54	87	207881	150.897	ppb	99
21) 2,2-Dichloropropane	3.66	77	210074	142.851	ppb	93
22) cis-1,2-Dichloroethene	3.67	96	196234	147.232	ppb	87
23) Chloroform	3.94	83	324349	146.112	ppb	97
24) 2-Butanone (MEK)	3.70	43	634135	745.033	ppb	98
25) t-Amyl methyl ether (T...)	4.49	73	474055	146.873	ppb	98
26) 1,2-Dichloroethane (EDC)	4.41	62	276529	143.753	ppb	97
27) 1,1,1-Trichloroethane	4.08	97	314267	153.408	ppb	94
28) 1,1-Dichloropropene	4.22	75	246565	146.263	ppb	97
29) Carbon tetrachloride	4.21	117	278007	162.724	ppb	99
31) Benzene	4.39	78	683781	147.073	ppb	94
32) Trichloroethene	4.93	95	224045	152.545	ppb	90
33) 1,2-Dichloropropane	5.13	63	201540	146.158	ppb	98
34) Bromodichloromethane	5.37	83	256202	154.015	ppb	91
36) Dibromomethane	5.23	93	121306	154.323	ppb	97

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

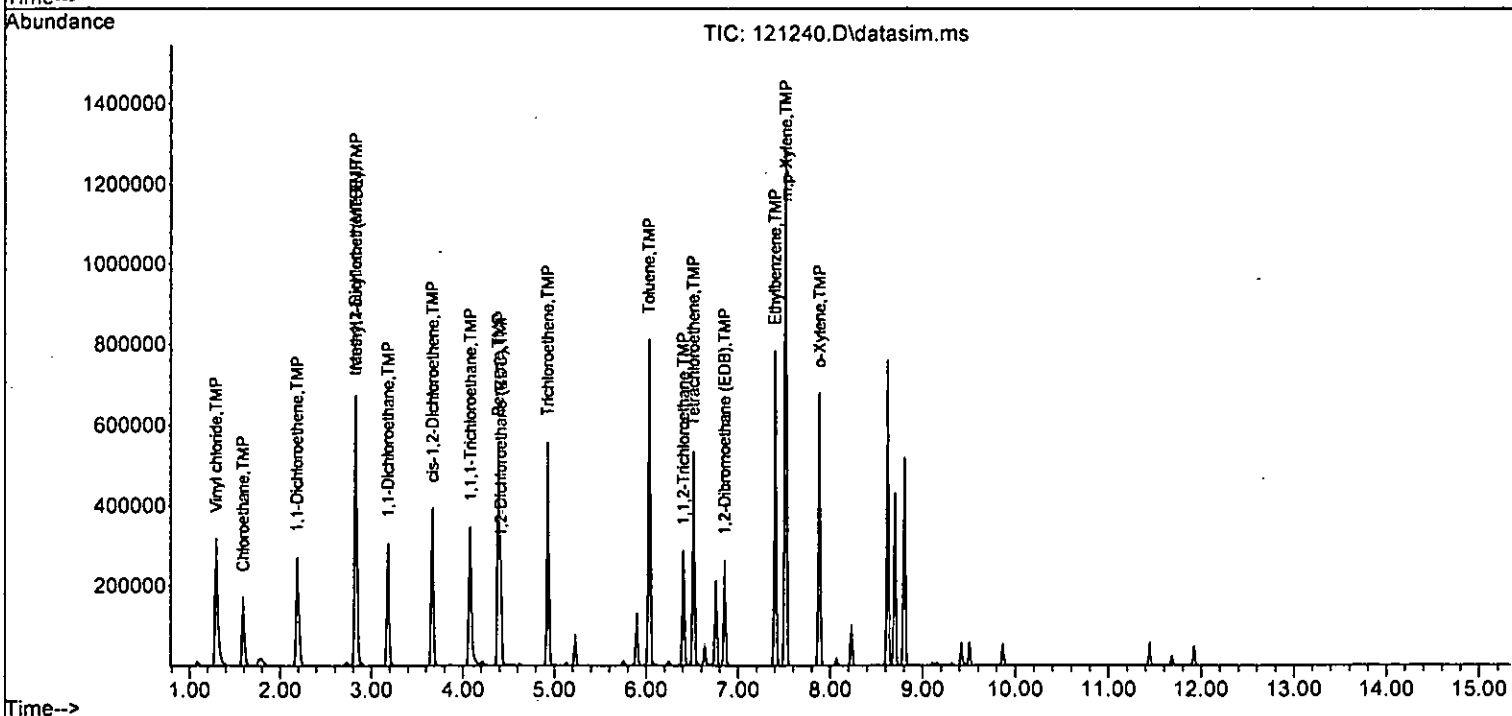
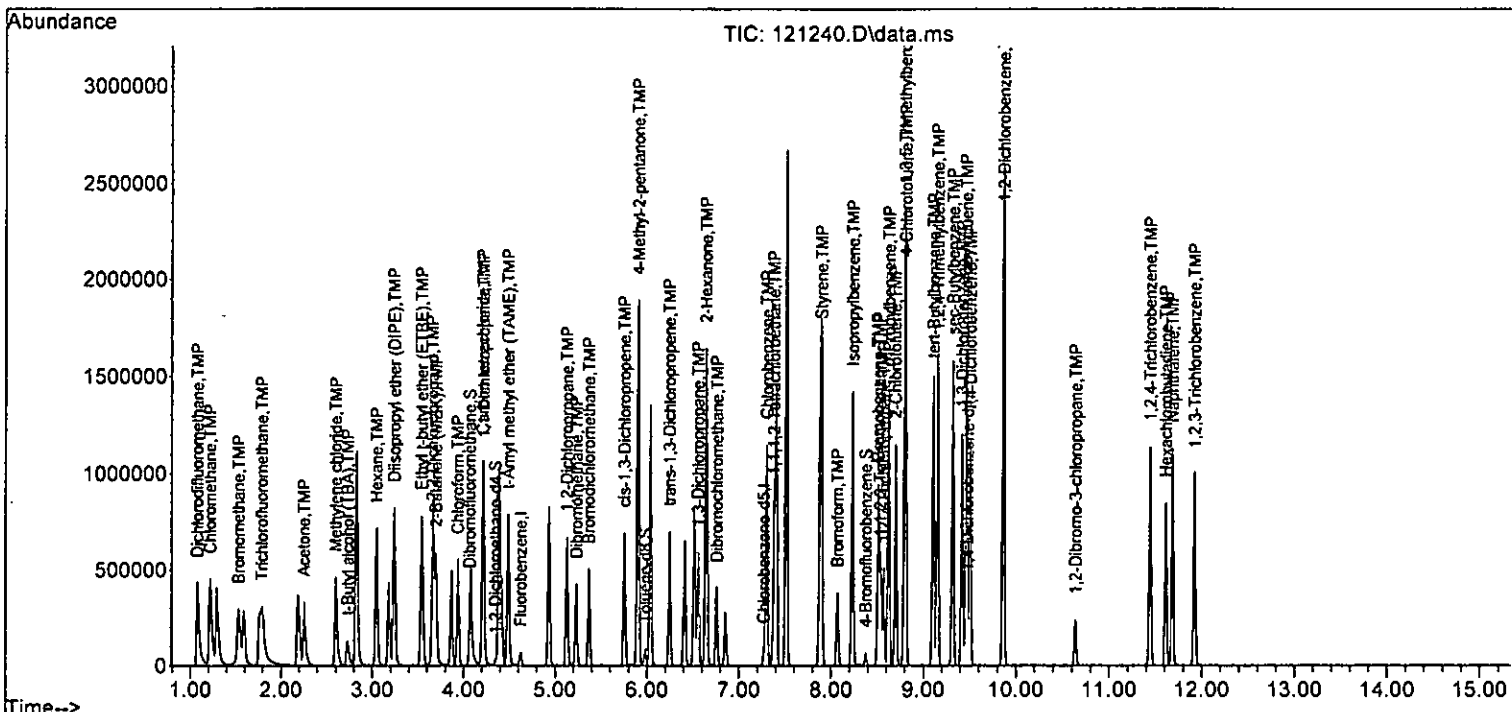
Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	179334	738.409	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	295786	148.299	ppb	100
40] Toluene	6.03	92	460551	148.909	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	276241	158.386	ppb	97
42] 1,1,2-Trichloroethane	6.40	83	146305	153.831	ppb	99
43) 2-Hexanone	6.64	43	871208	720.241	ppb	97
44) 1,3-Dichloropropane	6.55	76	259616	153.253	ppb	98
45] Tetrachloroethene	6.51	164	182088	147.548	ppb	99
46) Dibromochloromethane	6.76	129	208049	163.093	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	180689	153.058	ppb	100
48) Chlorobenzene	7.30	112	517157	154.996	ppb	99
49] Ethylbenzene	7.40	91	862249	148.374	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	194036	161.615	ppb	95
51] m,p-Xylene	7.52	106	644285	294.148	ppb	96
52] o-Xylene	7.88	106	321364	149.783	ppb	95
53) Styrene	7.90	104	535373	152.583	ppb	100
54) Isopropylbenzene	8.23	105	860476	152.556	ppb	99
55) Bromoform	8.07	173	151954	167.050	ppb	94
58) n-Propylbenzene	8.63	91	961540	149.893	ppb	96
59) Bromobenzene	8.51	156	232304	154.222	ppb	99
60) 1,3,5-Trimethylbenzene	8.80	105	707628	148.178	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	201371	147.638	ppb	95
62) 1,2,3-Trichloropropane	8.57	75	168671	147.268	ppb	97
63) 2-Chlorotoluene	8.70	91	564745	148.863	ppb	100
64) 4-Chlorotoluene	8.81	91	655687	147.049	ppb	97
65) tert-Butylbenzene	9.11	119	648597	154.977	ppb	98
66) 1,2,4-Trimethylbenzene	9.15	105	733274	151.478	ppb	98
67) sec-Butylbenzene	9.32	105	931136	153.498	ppb	98
68) p-Isopropyltoluene	9.46	119	813758	155.786	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	423564	151.079	ppb	99
70) 1,4-Dichlorobenzene	9.51	146	425782	149.089	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	408391	151.392	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.64	75	49131	162.204	ppb	81
73) 1,2,4-Trichlorobenzene	11.44	180	318041	166.038	ppb	99
74) Hexachlorobutadiene	11.61	225	168720	159.359	ppb	93
75) Naphthalene	11.68	128	767421	151.154	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	293881	166.297	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

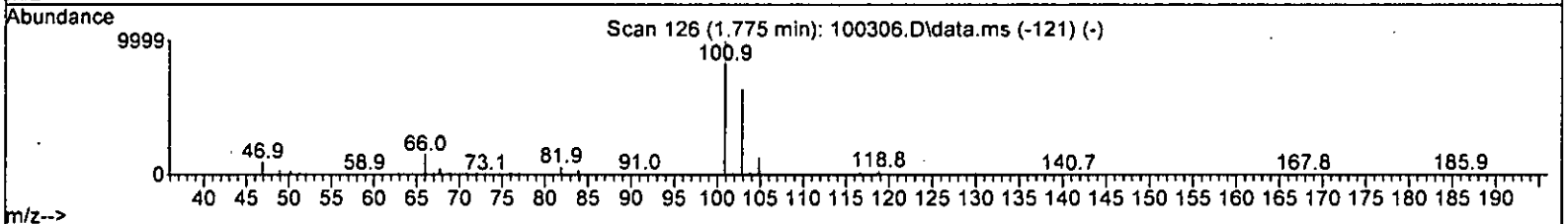
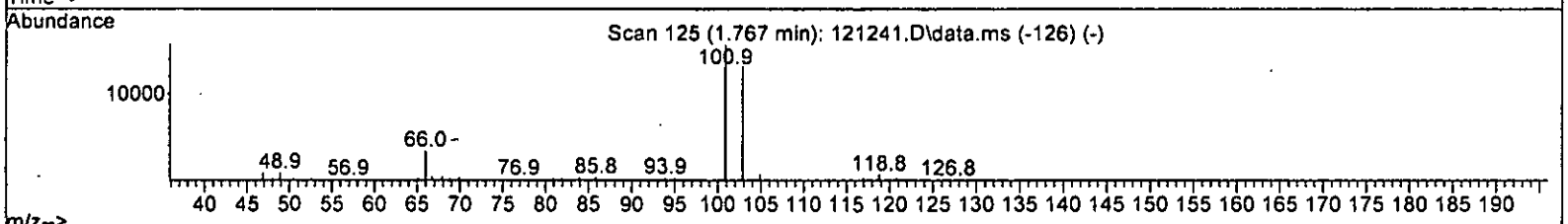
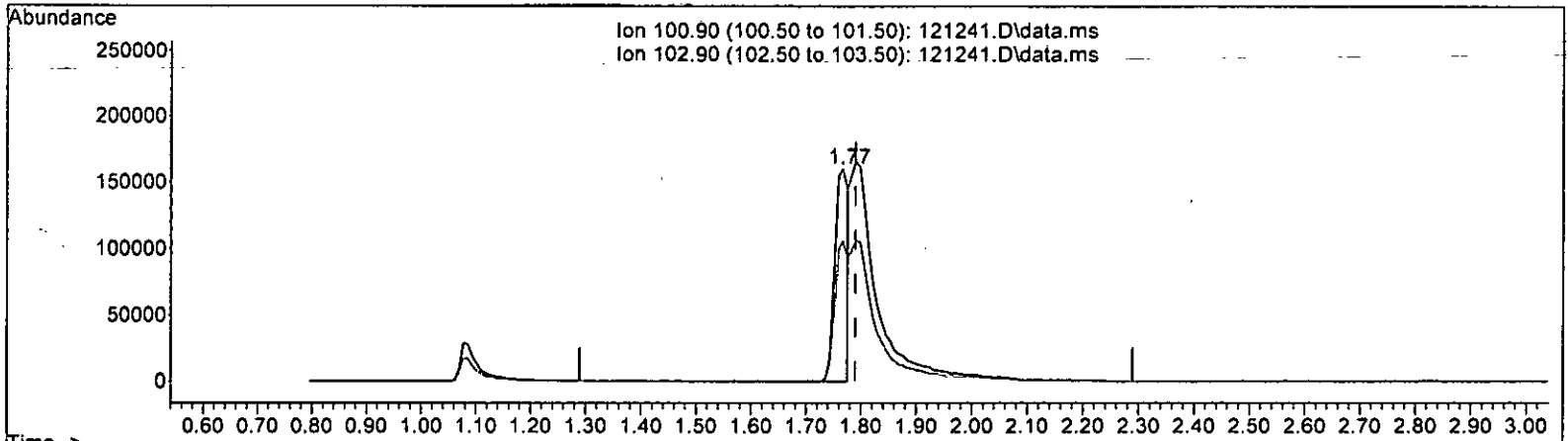
Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121241.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 66.449 ppb

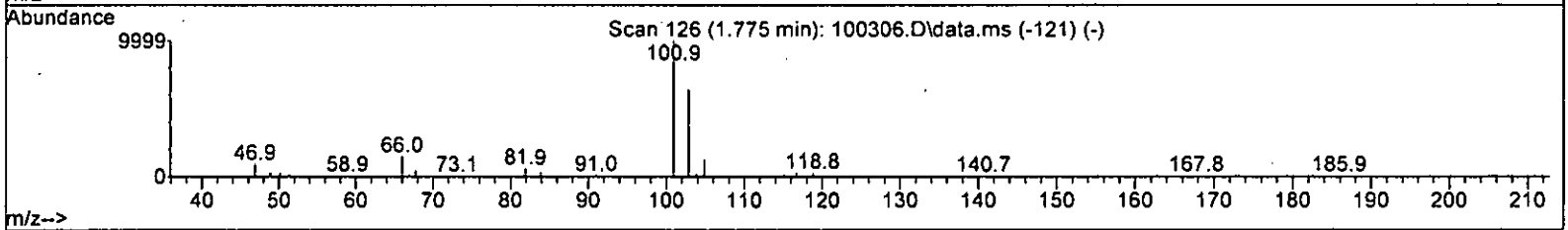
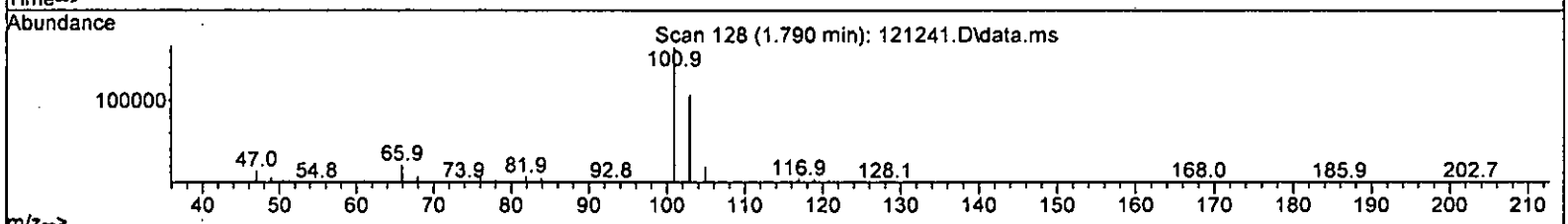
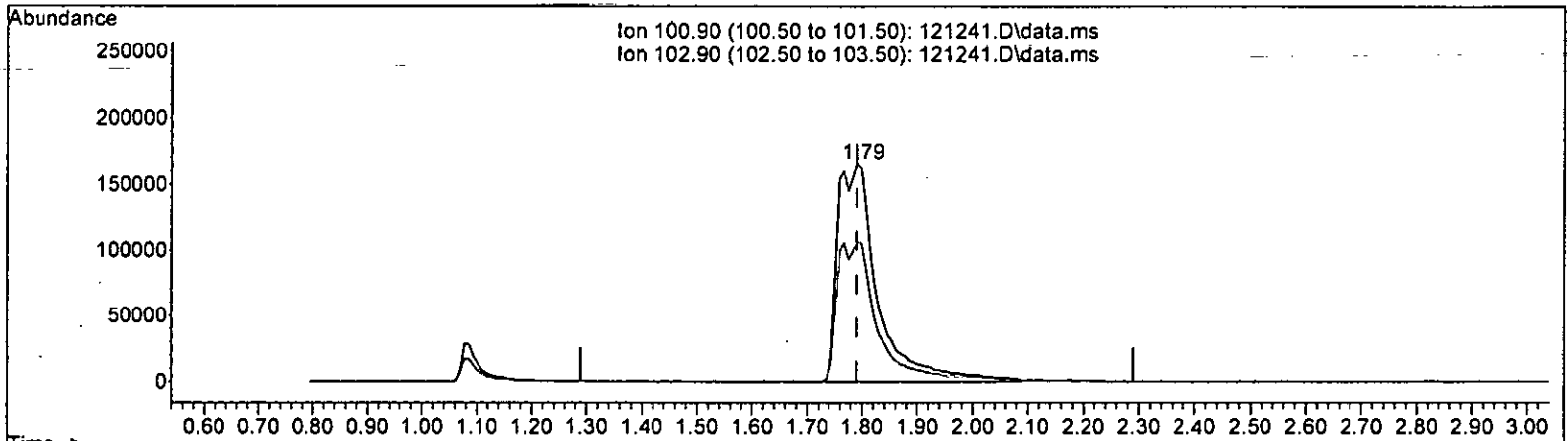
response	Exp%	Act%
264917	100.00	100.00
Ion 100.90	100.00	100.00
Ion 102.90	67.70	65.86
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121241.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.790min (+ 0.000) 215.597 ppb m

response	859534
Ion	Exp% Act%
100.90	100.00 100.00
102.90	62.70 64.20
0.00	0.00 0.00
0.00	0.00 0.00

*12/15 LM*

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.178	-1.8	100	0.00
4 TMP Dichlorodifluoromethane	200.000	207.595	-3.8	100	0.00
5 TMP Chloromethane	200.000	197.639	1.2	100	0.00
6 TMP Vinyl chloride	200.000	200.385	-0.2	100	0.00
7 TMP Bromomethane	200.000	207.118	-3.6	100	0.00
8 TMP Chloroethane	200.000	189.756	5.1	100	0.00
9 TMP Trichlorofluoromethane	200.000	215.597	-7.8	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	1000.000	1007.946	-0.8	100	0.00
12 TMP 1,1-Dichloroethene	200.000	198.369	0.8	100	0.00
13 TMP Hexane	200.000	192.176	3.9	100	0.00
14 TMP Methylene chloride	200.000	190.509	4.7	100	0.00
15 TMP t-Butyl alcohol (TBA)	1000.000	1016.892	-1.7	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	200.000	198.672	0.7	100	0.00
17 TMP trans-1,2-Dichloroethene	200.000	191.318	4.3	100	0.00
18 TMP Diisopropyl ether (DIPE)	200.000	194.152	2.9	100	0.00
19 TMP 1,1-Dichloroethane	200.000	198.145	0.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	200.000	201.413	-0.7	100	0.00
21 TMP 2,2-Dichloropropane	200.000	192.271	3.9	100	0.00
22 TMP cis-1,2-Dichloroethene	200.000	197.706	1.1	100	0.00
23 TMP Chloroform	200.000	195.552	2.2	100	0.00
24 TMP 2-Butanone (MEK)	1000.000	909.549	9.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	200.000	200.350	-0.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	200.000	192.918	3.5	100	0.00
27 TMP 1,1,1-Trichloroethane	200.000	205.791	-2.9	100	0.00
28 TMP 1,1-Dichloropropene	200.000	197.985	1.0	100	0.00
29 TMP Carbon tetrachloride	200.000	220.014	-10.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.340	-3.4	100	0.00
31 TMP Benzene	200.000	197.148	1.4	100	0.00
32 TMP Trichloroethene	200.000	205.137	-2.6	100	0.00
33 TMP 1,2-Dichloropropane	200.000	196.561	1.7	100	0.00
34 TMP Bromodichloromethane	200.000	204.528	-2.3	100	0.00
35 S Toluene-d8	10.000	10.001	-0.0	100	0.00
36 TMP Dibromomethane	200.000	208.739	-4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	1000.000	977.670	2.2	100	0.00
38 TMP cis-1,3-Dichloropropene	200.000	200.117	-0.1	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	200.000	191.517	4.2	100	0.01
41 TMP trans-1,3-Dichloropropene	200.000	202.915	-1.5	100	0.00
42 TMP 1,1,2-Trichloroethane	200.000	196.155	1.9	100	0.00
43 TMP 2-Hexanone	1000.000	902.158	9.8	100	0.00



Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	200.000	198.072	1.0	100	0.00
45 TMP Tetrachloroethene	200.000	188.790	5.6	100	0.00
46 TMP Dibromochloromethane	200.000	209.916	-5.0	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	200.000	194.643	2.7	100	0.00
48 TMP Chlorobenzene	200.000	200.291	-0.1	100	0.00
49 TMP Ethylbenzene	200.000	190.535	4.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	200.000	208.890	-4.4	100	0.00
51 TMP m,p-Xylene	400.000	379.798	5.1	100	0.00
52 TMP o-Xylene	200.000	191.876	4.1	100	0.00
53 TMP Styrene	200.000	197.267	1.4	100	0.00
54 TMP Isopropylbenzene	200.000	194.397	2.8	100	0.00
55 TMP Bromoform	200.000	215.393	-7.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.387	-3.9	100	0.00
58 TMP n-Propylbenzene	200.000	193.174	3.4	100	0.00
59 TMP Bromobenzene	200.000	200.088	-0.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	200.000	191.959	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	200.000	191.068	4.5	100	0.00
62 TMP 1,2,3-Trichloropropane	200.000	189.783	5.1	100	0.00
63 TMP 2-Chlorotoluene	200.000	192.810	3.6	100	0.00
64 TMP 4-Chlorotoluene	200.000	191.260	4.4	100	0.00
65 TMP tert-Butylbenzene	200.000	200.213	-0.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	200.000	198.455	0.8	100	0.00
67 TMP sec-Butylbenzene	200.000	200.676	-0.3	100	0.00
68 TMP p-Isopropyltoluene	200.000	201.968	-1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	200.000	197.661	1.2	100	0.00
70 TMP 1,4-Dichlorobenzene	200.000	195.446	2.3	100	0.00
71 TMP 1,2-Dichlorobenzene	200.000	197.850	1.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	200.000	208.611	-4.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	200.000	216.478	-8.2	100	0.00
74 TMP Hexachlorobutadiene	200.000	201.749	-0.9	100	0.00
75 TMP Naphthalene	200.000	196.122	1.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	200.000	214.664	-7.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.269	-1.9	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.715	-3.9	100	0.00
5 TMP	Chloromethane	0.883	0.872	1.2	100	0.00
6 TMP	Vinyl chloride	0.732	0.733	-0.1	100	0.00
7 TMP	Bromomethane	0.368	0.381	-3.5	100	0.00
8 TMP	Chloroethane	0.336	0.319	5.1	100	0.00
9 TMP	Trichlorofluoromethane	0.870	0.938	-7.8	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.038	-2.7	100	0.00
12 TMP	1,1-Dichloroethene	0.240	0.238	0.8	100	0.00
13 TMP	Hexane	0.434	0.417	3.9	100	0.00
14 TMP	Methylene chloride	0.269	0.256	4.8	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.047	-2.2	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.728	0.7	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.260	4.4	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.905	2.9	100	0.00
19 TMP	1,1-Dichloroethane	0.504	0.500	0.8	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.298	-0.7	100	0.00
21 TMP	2,2-Dichloropropane	0.316	0.304	3.8	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.283	1.0	100	0.00
23 TMP	Chloroform	0.477	0.466	2.3	100	0.00
24 TMP	2-Butanone (MEK)	0.183	0.166	9.3	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.695	-0.1	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.399	3.4	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.453	-3.0	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.359	0.8	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.404	-10.1	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP	Benzene	0.999	0.985	1.4	100	0.00
32 TMP	Trichloroethene	0.316	0.324	-2.5	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.291	1.7	100	0.00
34 TMP	Bromodichloromethane	0.357	0.366	-2.5	100	0.00
35 S	Toluene-d8	0.960	0.960	0.0	100	0.00
36 TMP	Dibromomethane	0.169	0.176	-4.1	100	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.429	0.0	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.858	0.821	4.3	100	0.01
41 TMP	trans-1,3-Dichloropropene	0.484	0.491	-1.4	100	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.259	1.9	100	0.00
43 TMP	2-Hexanone	0.335	0.303	9.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.465	1.1	100	0.00
45 TMP Tetrachloroethene	0.342	0.323	5.6	100	0.00
46 TMP Dibromochloromethane	0.354	0.371	-4.8	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.319	2.4	100	0.00
48 TMP Chlorobenzene	0.925	0.927	-0.2	100	0.00
49 TMP Ethylbenzene	1.611	1.535	4.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.348	-4.5	100	0.00
51 TMP m,p-Xylene	0.607	0.577	4.9	100	0.00
52 TMP o-Xylene	0.595	0.571	4.0	100	0.00
53 TMP Styrene	0.973	0.960	1.3	100	0.00
54 TMP Isopropylbenzene	1.564	1.520	2.8	100	0.00
55 TMP Bromoform	0.252	0.272	-7.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.877	-3.9	100	0.00
58 TMP n-Propylbenzene	3.281	3.169	3.4	100	0.00
59 TMP Bromobenzene	0.770	0.771	-0.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.345	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.667	4.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.556	5.1	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.871	3.6	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.181	4.4	100	0.00
65 TMP tert-Butylbenzene	2.141	2.143	-0.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.457	0.8	100	0.00
67 TMP sec-Butylbenzene	3.103	3.113	-0.3	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.698	-1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.417	1.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.428	2.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.365	1.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.162	-4.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.061	-8.3	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.546	-0.7	100	0.00
75 TMP Naphthalene	2.597	2.547	1.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.970	-7.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	45831	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	37397	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	20078	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	12308	10.178	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery = 101.80%				
30) 1,2-Dichloroethane-d4	4.36	102	2859	10.340	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery = 103.40%				
35) Toluene-d8	5.98	98	44007	10.001	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery = 100.00%				
57) 4-Bromofluorobenzene	8.38	95	17607	10.387	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery = 103.90%				
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.08	85	655057	207.595	ppb	99	
5) Chloromethane	1.22	50	799622	197.639	ppb	99	
6] Vinyl chloride	1.29	62	672029	200.385	ppb	97	
7) Bromomethane	1.54	94	349621	207.118	ppb	70	
8] Chloroethane	1.59	64	292579	189.756	ppb	99	
9) Trichlorofluoromethane	1.79	101	859534m	215.597	ppb		
10) 2-Propanol	2.41	45	713	No Calib			
11) Acetone	2.25	58	171979	1007.946	ppb	91	
12] 1,1-Dichloroethene	2.18	96	218529	198.369	ppb	82	
13) Hexane	3.05	57	382022	192.176	ppb	95	
14) Methylene chloride	2.60	84	234892	190.509	ppb	97	
15) t-Butyl alcohol (TBA)	2.73	59	215229	1016.892	ppb	97	
16] Methyl t-butyl ether (...)	2.83	73	667568	198.672	ppb	97	
17] trans-1,2-Dichloroethene	2.82	96	238715	191.318	ppb	98	
18) Diisopropyl ether (DIPE)	3.24	45	829323	194.152	ppb	98	
19] 1,1-Dichloroethane	3.18	63	457946	198.145	ppb	99	
20) Ethyl t-butyl ether (E...)	3.54	87	273247	201.413	ppb	97	
21) 2,2-Dichloropropane	3.66	77	278442	192.271	ppb	92	
22] cis-1,2-Dichloroethene	3.67	96	259492	197.706	ppb	89	
23) Chloroform	3.94	83	427487	195.552	ppb	96	
24) 2-Butanone (MEK)	3.70	43	762369	909.549	ppb	98	
25) t-Amyl methyl ether (T...)	4.49	73	636808	200.350	ppb	100	
26] 1,2-Dichloroethane (EDC)	4.41	62	365450	192.918	ppb	97	
27] 1,1,1-Trichloroethane	4.08	97	415155	205.791	ppb	95	
28) 1,1-Dichloropropene	4.22	75	328671	197.985	ppb	98	
29) Carbon tetrachloride	4.21	117	370157	220.014	ppb	99	
31] Benzene	4.38	78	902630	197.148	ppb	93	
32] Trichloroethene	4.93	95	296697	205.137	ppb	92	
33) 1,2-Dichloropropane	5.13	63	266913	196.561	ppb	99	
34) Bromodichloromethane	5.37	83	335047	204.528	ppb	88	
36) Dibromomethane	5.23	93	161580	208.739	ppb	98	

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

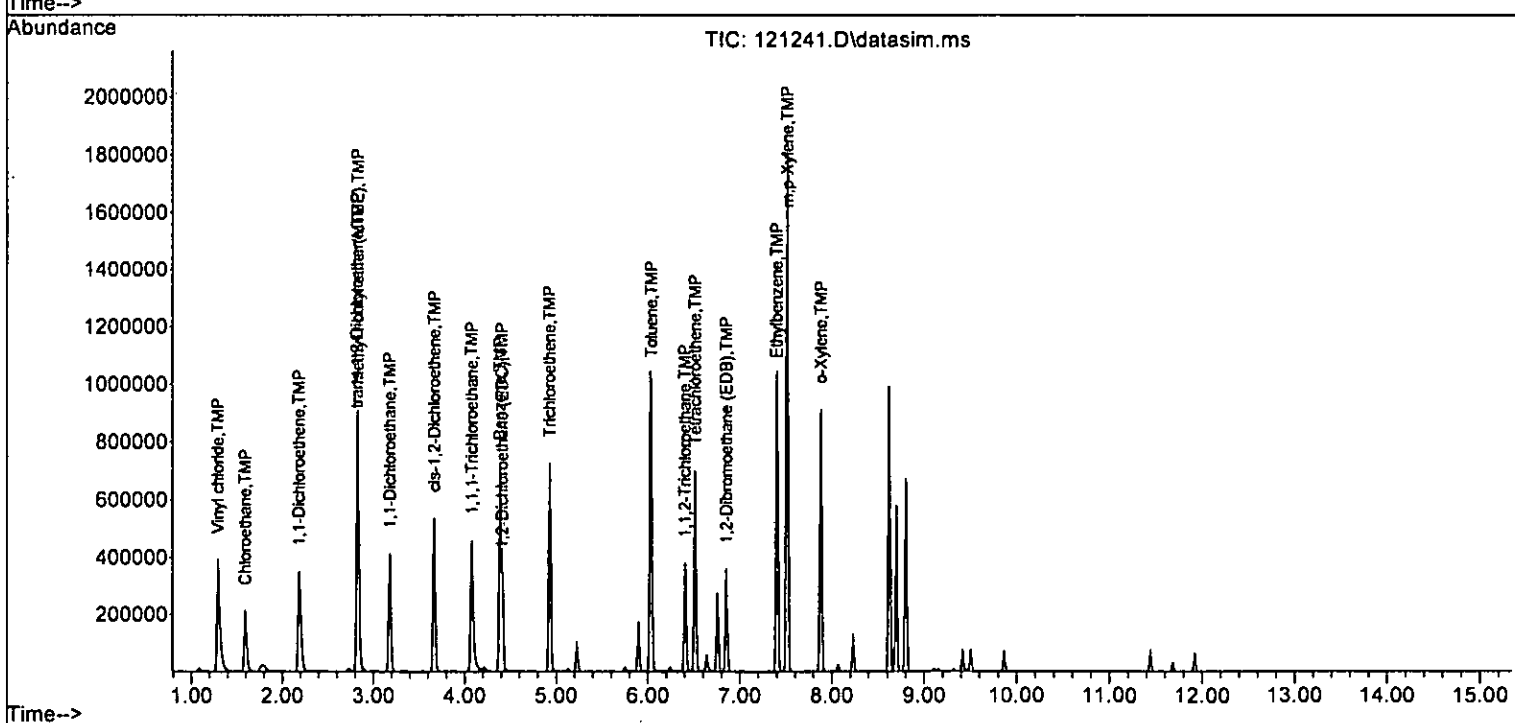
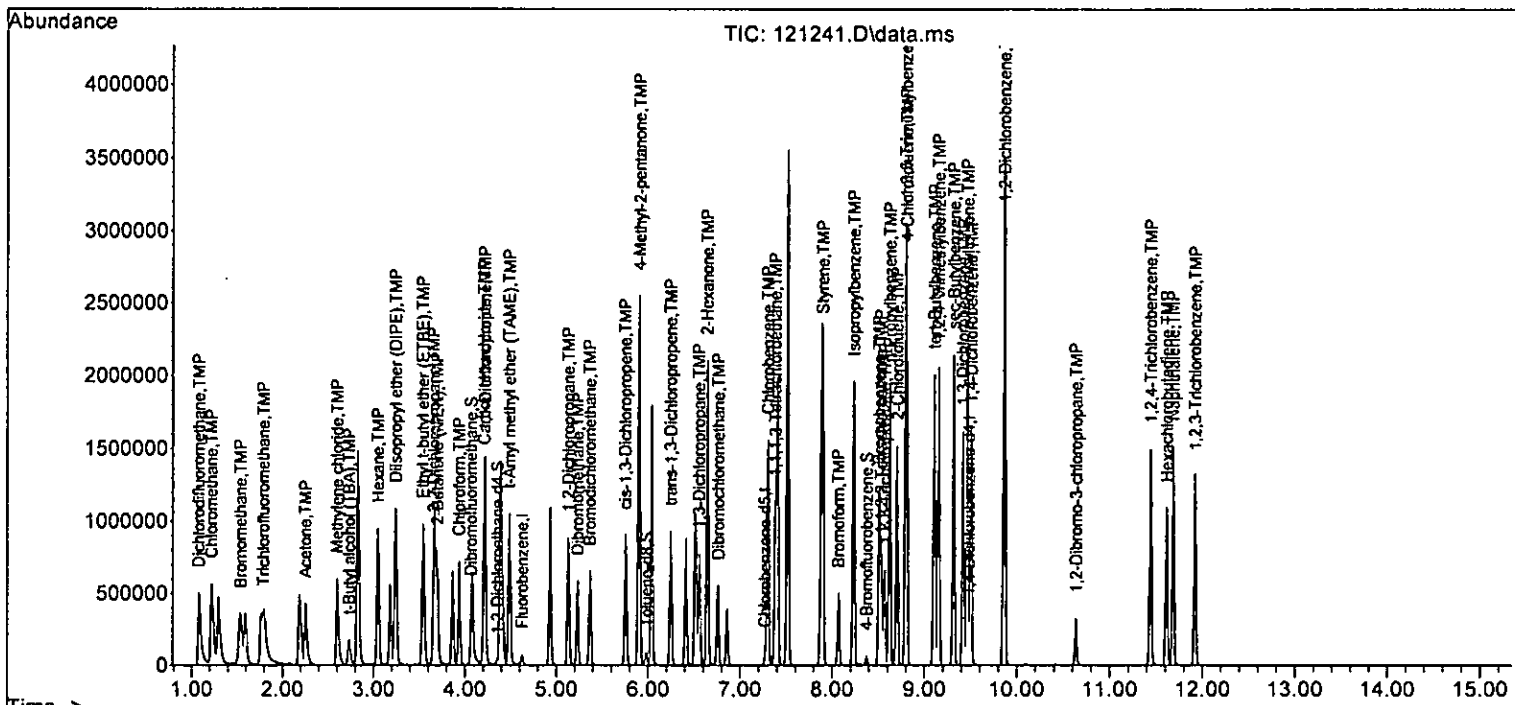
Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	233825	977.670	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	393056	200.117	ppb	99
40] Toluene	6.04	92	614208	191.517	ppb	98
41) trans-1,3-Dichloropropene	6.25	75	366976	202.915	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	193449	196.155	ppb	99
43) 2-Hexanone	6.64	43	1131560	902.158	ppb	97
44) 1,3-Dichloropropane	6.55	76	347933	198.072	ppb	98
45] Tetrachloroethene	6.51	164	241589	188.790	ppb	99
46) Dibromochloromethane	6.76	129	277669	209.916	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	238267	194.643	ppb	99
48) Chlorobenzene	7.30	112	692968	200.291	ppb	99
49] Ethylbenzene	7.40	91	1148153	190.535	ppb	97
50) 1,1,1,2-Tetrachloroethane	7.38	131	260058	208.890	ppb	97
51] m,p-Xylene	7.52	106	862612	379.798	ppb	91
52] o-Xylene	7.88	106	426881	191.876	ppb	95
53) Styrene	7.90	104	717721	197.267	ppb	98
54) Isopropylbenzene	8.23	105	1136970	194.397	ppb	99
55) Bromoform	8.07	173	203165	215.393	ppb	94
58) n-Propylbenzene	8.63	91	1272652	193.174	ppb	96
59) Bromobenzene	8.51	156	309532	200.088	ppb	98
60) 1,3,5-Trimethylbenzene	8.80	105	941465	191.959	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	267646	191.068	ppb	96
62) 1,2,3-Trichloropropane	8.57	75	223236	189.783	ppb	95
63) 2-Chlorotoluene	8.70	91	751222	192.810	ppb	98
64) 4-Chlorotoluene	8.81	91	875859	191.260	ppb	97
65) tert-Butylbenzene	9.11	119	860547	200.213	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	986628	198.455	ppb	99
67) sec-Butylbenzene	9.32	105	1250198	200.676	ppb	99
68) p-Isopropyltoluene	9.47	119	1083489	201.968	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	569128	197.661	ppb	98
70) 1,4-Dichlorobenzene	9.51	146	573249	195.446	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	548129	197.850	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.64	75	64894	208.611	ppb	86
73) 1,2,4-Trichlorobenzene	11.44	180	425856	216.478	ppb	98
74) Hexachlorobutadiene	11.61	225	219369	201.749	ppb	91
75) Naphthalene	11.68	128	1022620	196.122	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	389600	214.664	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

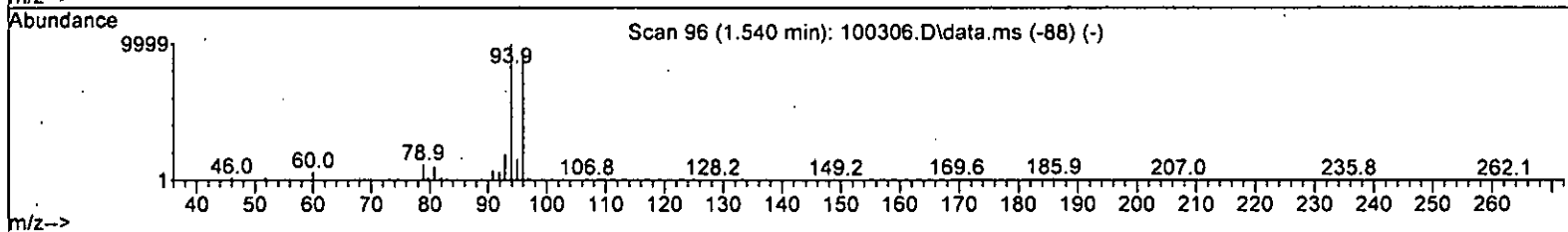
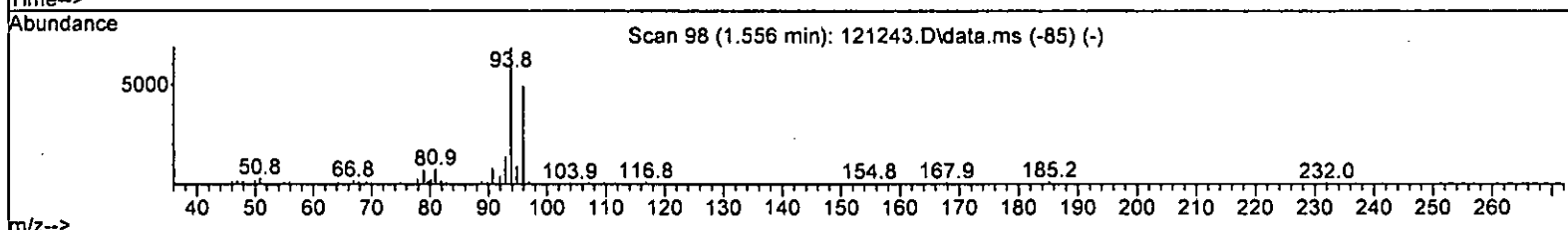
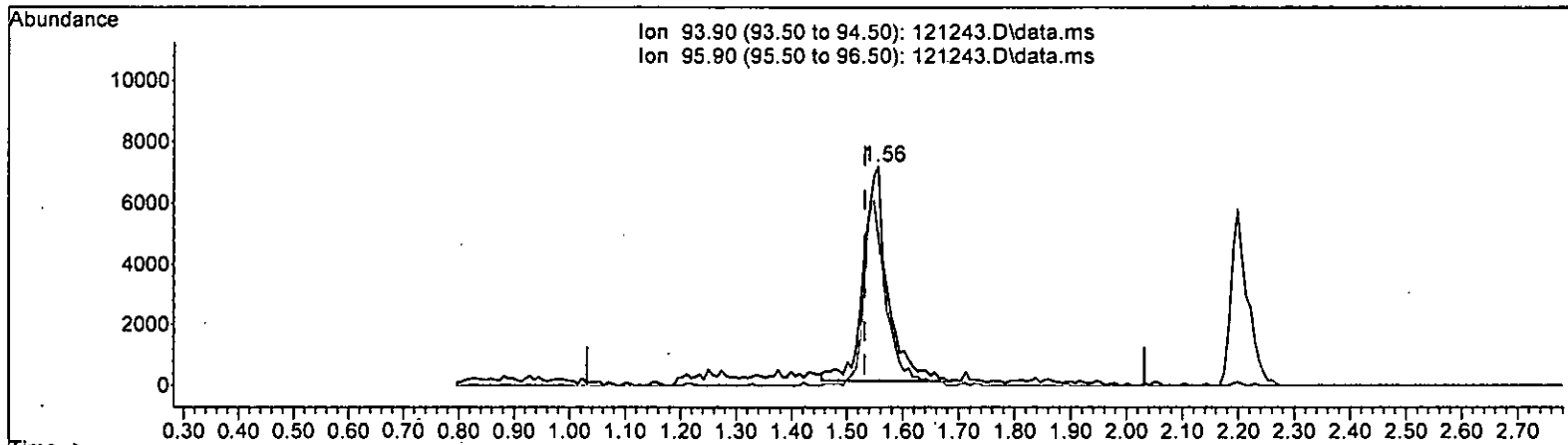
Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121243.D\data.ms

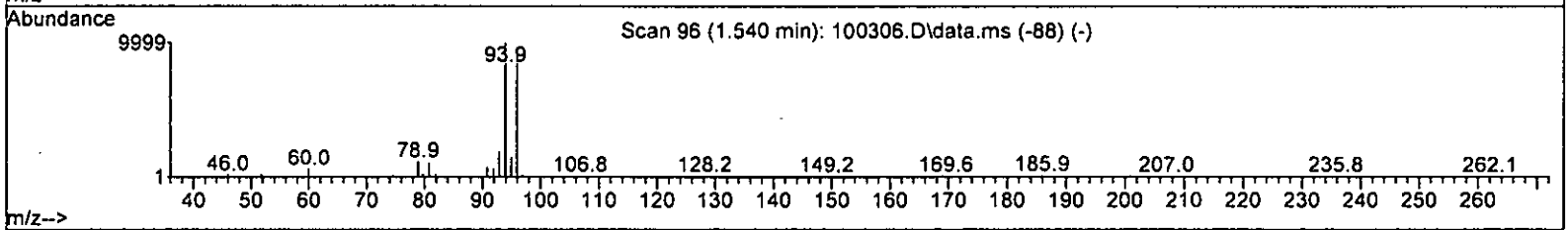
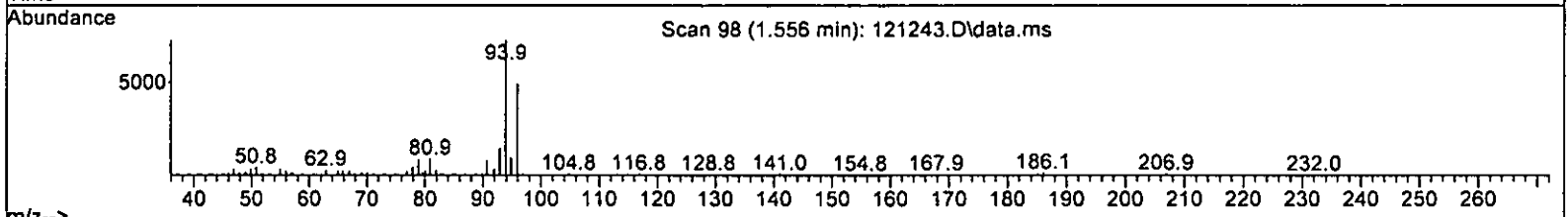
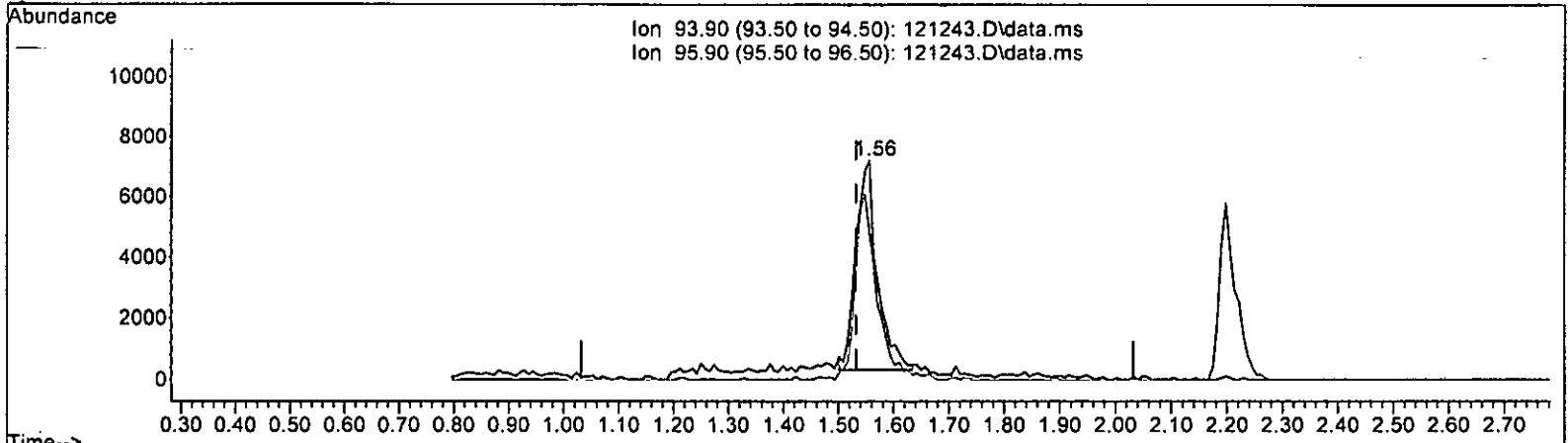
(7) Bromomethane (TMB)		
1.556min (+ 0.024)		11.782 ppb
response	21279	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	69.20
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 JLM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121243.D\data.ms

(7) Bromomethane (TMP)

1.556min (+ 0.024)	10.175 ppb m	
response	18377	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	67.66
0.00	0.00	0.00
0.00	0.00	0.00

12/15 LM



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	104	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	9.501	5.0	98	0.00
4 TMP	Dichlorodifluoromethane	10.000	9.073	9.3	96	0.02
5 TMP	Chloromethane	10.000	8.868	11.3	94	0.00
6 TMP	Vinyl chloride	10.000	9.860	1.4	100	0.00
7 TMP	Bromomethane	10.000	10.175	-1.8	117	0.02
8 TMP	Chloroethane	10.000	9.798	2.0	104	0.02
9 TMP	Trichlorofluoromethane	10.000	9.673	3.3	103	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	50.000	48.632	2.7	109	0.00
12 TMP	1,1-Dichloroethene	10.000	10.504	-5.0	108	0.02
13 TMP	Hexane	10.000	9.308	6.9	96	0.00
14 TMP	Methylene chloride	10.000	10.260	-2.6	99	0.00
15 TMP	t-Butyl alcohol (TBA)	50.000	48.252	3.5	101	0.00
16 TMP	Methyl t-butyl ether (MTBE)	10.000	10.209	-2.1	102	0.02
17 TMP	trans-1,2-Dichloroethene	10.000	10.142	-1.4	104	0.00
18 TMP	Diisopropyl ether (DIPE)	10.000	10.114	-1.1	105	0.00
19 TMP	1,1-Dichloroethane	10.000	10.154	-1.5	103	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	10.000	10.280	-2.8	103	0.00
21 TMP	2,2-Dichloropropane	10.000	8.459	15.4	88	0.00
22 TMP	cis-1,2-Dichloroethene	10.000	10.077	-0.8	103	0.00
23 TMP	Chloroform	10.000	9.577	4.2	104	0.00
24 TMP	2-Butanone (MEK)	50.000	48.688	2.6	104	0.00
25 TMP	t-Amyl methyl ether (TAME)	10.000	10.204	-2.0	103	0.00
26 TMP	1,2-Dichloroethane (EDC)	10.000	9.756	2.4	102	0.00
27 TMP	1,1,1-Trichloroethane	10.000	10.187	-1.9	105	0.00
28 TMP	1,1-Dichloropropene	10.000	9.736	2.6	100	0.00
29 TMP	Carbon tetrachloride	10.000	10.517	-5.2	107	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.150	8.5	90	0.00
31 TMP	Benzene	10.000	9.992	0.1	103	0.00
32 TMP	Trichloroethene	10.000	10.467	-4.7	108	0.00
33 TMP	1,2-Dichloropropane	10.000	9.694	3.1	101	0.00
34 TMP	Bromodichloromethane	10.000	9.792	2.1	103	0.00
35 S	Toluene-d8	10.000	9.643	3.6	102	0.00
36 TMP	Dibromomethane	10.000	10.247	-2.5	103	0.00
37 TMP	4-Methyl-2-pentanone	50.000	50.643	-1.3	108	0.00
38 TMP	cis-1,3-Dichloropropene	10.000	9.758	2.4	104	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	103	0.00
40 TMP	Toluene	10.000	10.073	-0.7	104	0.01
41 TMP	trans-1,3-Dichloropropene	10.000	10.189	-1.9	106	0.00
42 TMP	1,1,2-Trichloroethane	10.000	10.266	-2.7	104	0.00
43 TMP	2-Hexanone	50.000	52.975	-6.0	107	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.494	-4.9	102	0.00
45 TMP Tetrachloroethene	10.000	9.951	0.5	105	0.00
46 TMP Dibromochloromethane	10.000	10.772	-7.7	111	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.211	-2.1	105	0.00
48 TMP Chlorobenzene	10.000	10.379	-3.8	106	0.00
49 TMP Ethylbenzene	10.000	10.238	-2.4	104	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.497	-5.0	103	0.00
51 TMP m,p-Xylene	20.000	20.390	-2.0	104	0.00
52 TMP o-Xylene	10.000	10.454	-4.5	105	0.00
53 TMP Styrene	10.000	10.399	-4.0	104	0.00
54 TMP Isopropylbenzene	10.000	10.225	-2.2	103	0.00
55 TMP Bromoform	10.000	9.966	0.3	102	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	101	0.00
57 S 4-Bromofluorobenzene	10.000	10.210	-2.1	102	0.00
58 TMP n-Propylbenzene	10.000	10.435	-4.4	104	0.00
59 TMP Bromobenzene	10.000	10.450	-4.5	105	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.071	-0.7	104	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.900	1.0	99	0.00
62 TMP 1,2,3-Trichloropropane	10.000	10.281	-2.8	105	0.00
63 TMP 2-Chlorotoluene	10.000	10.084	-0.8	103	0.00
64 TMP 4-Chlorotoluene	10.000	10.212	-2.1	105	0.00
65 TMP tert-Butylbenzene	10.000	10.358	-3.6	105	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.448	-4.5	106	0.00
67 TMP sec-Butylbenzene	10.000	10.355	-3.6	106	0.00
68 TMP p-Isopropyltoluene	10.000	10.467	-4.7	104	0.00
69 TMP 1,3-Dichlorobenzene	10.000	10.511	-5.1	108	0.00
70 TMP 1,4-Dichlorobenzene	10.000	10.382	-3.8	106	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.521	-5.2	106	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	10.411	-4.1	109	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	10.961	-9.6	112	0.00
74 TMP Hexachlorobutadiene	10.000	10.570	-5.7	107	0.00
75 TMP Naphthalene	10.000	10.130	-1.3	109	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	11.124	-11.2	111	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	104	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.251	4.9	98	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.625	9.2	96	0.02
5 TMP	Chloromethane	0.883	0.783	11.3	94	0.00
6 TMP	Vinyl chloride	0.732	0.721	1.5	100	0.00
7 TMP	Bromomethane	0.368	0.375	-1.9	117	0.02
8 TMP	Chloroethane	0.336	0.330	1.8	104	0.02
9 TMP	Trichlorofluoromethane	0.870	0.841	3.3	103	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.036	2.7	109	0.00
12 TMP	1,1-Dichloroethene	0.240	0.252	-5.0	108	0.02
13 TMP	Hexane	0.434	0.404	6.9	96	0.00
14 TMP	Methylene chloride	0.269	0.276	-2.6	99	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.045	2.2	101	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.748	-2.0	102	0.02
17 TMP	trans-1,2-Dichloroethene	0.272	0.276	-1.5	104	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.943	-1.2	105	0.00
19 TMP	1,1-Dichloroethane	0.504	0.512	-1.6	103	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.304	-2.7	103	0.00
21 TMP	2,2-Dichloropropane	0.316	0.267	15.5	88	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.289	-1.0	103	0.00
23 TMP	Chloroform	0.477	0.457	4.2	104	0.00
24 TMP	2-Butanone (MEK)	0.183	0.178	2.7	104	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.708	-2.0	103	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.403	2.4	102	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.448	-1.8	105	0.00
28 TMP	1,1-Dichloropropene	0.362	0.353	2.5	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.386	-5.2	107	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.055	8.3	90	0.00
31 TMP	Benzene	0.999	0.998	0.1	103	0.00
32 TMP	Trichloroethene	0.316	0.330	-4.4	108	0.00
33 TMP	1,2-Dichloropropane	0.296	0.287	3.0	101	0.00
34 TMP	Bromodichloromethane	0.357	0.350	2.0	103	0.00
35 S	Toluene-d8	0.960	0.926	3.5	102	0.00
36 TMP	Dibromomethane	0.169	0.173	-2.4	103	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.053	-1.9	108	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.418	2.6	104	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
40 TMP	Toluene	0.858	0.864	-0.7	104	0.01
41 TMP	trans-1,3-Dichloropropene	0.484	0.493	-1.9	106	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.271	-2.7	104	0.00
43 TMP	2-Hexanone	0.335	0.355	-6.0	107	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.493	-4.9	102	0.00
45 TMP Tetrachloroethene	0.342	0.341	0.3	105	0.00
46 TMP Dibromochloromethane	0.354	0.381	-7.6	111	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.334	-2.1	105	0.00
48 TMP Chlorobenzene	0.925	0.960	-3.8	106	0.00
49 TMP Ethylbenzene	1.611	1.650	-2.4	104	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.349	-4.8	103	0.00
51 TMP m,p-Xylene	0.607	0.619	-2.0	104	0.00
52 TMP o-Xylene	0.595	0.622	-4.5	105	0.00
53 TMP Styrene	0.973	1.012	-4.0	104	0.00
54 TMP Isopropylbenzene	1.564	1.599	-2.2	103	0.00
55 TMP Bromoform	0.252	0.251	0.4	102	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
57 S 4-Bromofluorobenzene	0.844	0.862	-2.1	102	0.00
58 TMP n-Propylbenzene	3.281	3.424	-4.4	104	0.00
59 TMP Bromobenzene	0.770	0.805	-4.5	105	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.460	-0.7	104	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.691	1.0	99	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.602	-2.7	105	0.00
63 TMP 2-Chlorotoluene	1.941	1.957	-0.8	103	0.00
64 TMP 4-Chlorotoluene	2.281	2.329	-2.1	105	0.00
65 TMP tert-Butylbenzene	2.141	2.217	-3.5	105	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.587	-4.5	106	0.00
67 TMP sec-Butylbenzene	3.103	3.213	-3.5	106	0.00
68 TMP p-Isopropyltoluene	2.672	2.797	-4.7	104	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.507	-5.1	108	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.517	-3.8	106	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.452	-5.2	106	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.161	-3.9	109	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.074	-9.6	112	0.00
74 TMP Hexachlorobutadiene	0.542	0.572	-5.5	107	0.00
75 TMP Naphthalene	2.597	2.631	-1.3	109	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	1.006	-11.3	111	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	49036	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	37606	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	20495	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12292	9.501	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	95.00%	
30) 1,2-Dichloroethane-d4	4.36	102	2707	9.150	ppb	0.00	
Spiked Amount	10.000	Range	79 - 128	Recovery	=	91.50%	
35) Toluene-d8	5.98	98	45397	9.643	ppb	0.00	
Spiked Amount	10.000	Range	84 - 121	Recovery	=	96.40%	
57) 4-Bromofluorobenzene	8.38	95	17667	10.210	ppb	0.00	
Spiked Amount	10.000	Range	84 - 116	Recovery	=	102.10%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	1.09	85	30632	9.073	ppb	100	
5) Chloromethane	1.23	50	38388	8.868	ppb	100	
6] Vinyl chloride	1.30	62	35379	9.860	ppb	100	
7) Bromomethane	1.56	94	18377m	10.175	ppb		
8] Chloroethane	1.61	64	16164	9.798	ppb	100	
9) Trichlorofluoromethane	1.80	101	41260	9.673	ppb	100	
10) 2-Propanol	2.40	45	277	No Calib			
11) Acetone	2.27	58	8878	48.632	ppb	100	
12] 1,1-Dichloroethene	2.20	96	12381	10.504	ppb	100	
13) Hexane	3.06	57	19798	9.308	ppb	100	
14) Methylene chloride	2.61	84	13535	10.260	ppb	100	
15) t-Butyl alcohol (TBA)	2.74	59	10927	48.252	ppb	100	
16] Methyl t-butyl ether (...)	2.85	73	36701	10.209	ppb	100	
17] trans-1,2-Dichloroethene	2.83	96	13539	10.142	ppb	100	
18) Diisopropyl ether (DIPE)	3.25	45	46222	10.114	ppb	100	
19] 1,1-Dichloroethane	3.19	63	25109	10.154	ppb	100	
20) Ethyl t-butyl ether (E...)	3.55	87	14921	10.280	ppb	100	
21) 2,2-Dichloropropane	3.67	77	13107	8.459	ppb	100	
22] cis-1,2-Dichloroethene	3.67	96	14151	10.077	ppb	100	
23) Chloroform	3.95	83	22401	9.577	ppb	100	
24) 2-Butanone (MEK)	3.71	43	43663	48.688	ppb	100	
25) t-Amyl methyl ether (T...)	4.50	73	34702	10.204	ppb	100	
26] 1,2-Dichloroethane (EDC)	4.42	62	19774	9.756	ppb	100	
27] 1,1,1-Trichloroethane	4.08	97	21987	10.187	ppb	100	
28) 1,1-Dichloropropene	4.22	75	17293	9.736	ppb	100	
29) Carbon tetrachloride	4.22	117	18932	10.517	ppb	100	
31] Benzene	4.39	78	48945	9.992	ppb	100	
32] Trichloroethene	4.93	95	16197	10.467	ppb	100	
33) 1,2-Dichloropropane	5.13	63	14084	9.694	ppb	100	
34) Bromodichloromethane	5.37	83	17162	9.792	ppb	100	
36) Dibromomethane	5.23	93	8487	10.247	ppb	100	

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

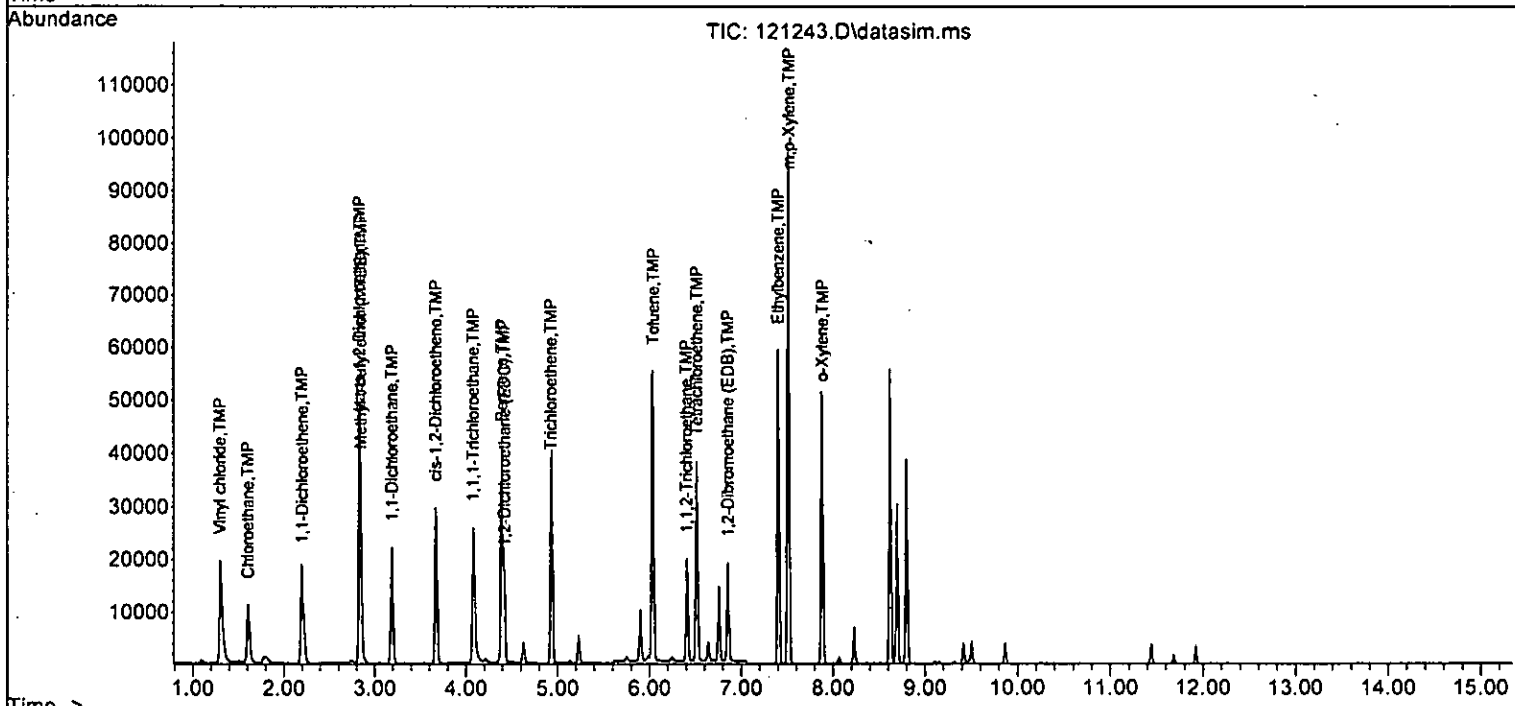
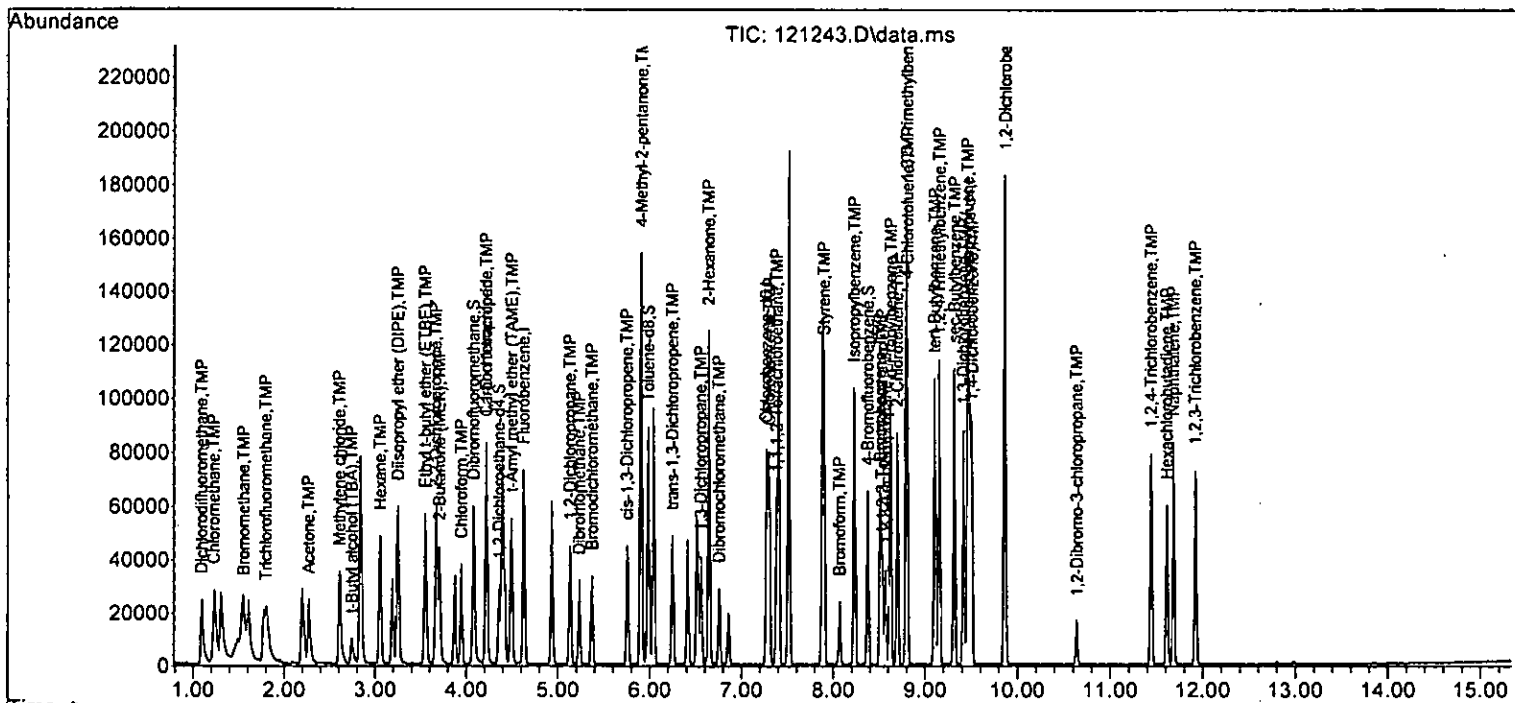
Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	12959	50.643	ppb	100
38) cis-1,3-Dichloropropene	5.75	75	20507	9.758	ppb	100
40] Toluene	6.04	92	32485	10.073	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	18530	10.189	ppb	100
42] 1,1,2-Trichloroethane	6.40	83	10181	10.266	ppb	100
43) 2-Hexanone	6.64	43	66817	52.975	ppb	100
44) 1,3-Dichloropropane	6.55	76	18536	10.494	ppb	100
45] Tetrachloroethene	6.51	164	12805	9.951	ppb	100
46) Dibromochloromethane	6.75	129	14329	10.772	ppb	100
47] 1,2-Dibromoethane (EDB)	6.85	107	12569	10.211	ppb	100
48) Chlorobenzene	7.30	112	36111	10.379	ppb	100
49] Ethylbenzene	7.40	91	62038	10.238	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	13141	10.497	ppb	100
51] m,p-Xylene	7.52	106	46570	20.390	ppb	100
52] o-Xylene	7.88	106	23388	10.454	ppb	100
53) Styrene	7.90	104	38045	10.399	ppb	100
54) Isopropylbenzene	8.23	105	60137	10.225	ppb	100
55) Bromoform	8.07	173	9453	9.966	ppb	100
58) n-Propylbenzene	8.63	91	70177	10.435	ppb	100
59) Bromobenzene	8.51	156	16501	10.450	ppb	100
60) 1,3,5-Trimethylbenzene	8.80	105	50420	10.071	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	14156	9.900	ppb	100
62) 1,2,3-Trichloropropane	8.57	75	12344	10.281	ppb	100
63) 2-Chlorotoluene	8.70	91	40107	10.084	ppb	100
64) 4-Chlorotoluene	8.81	91	47734	10.212	ppb	100
65) tert-Butylbenzene	9.10	119	45446	10.358	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	53023	10.448	ppb	100
67) sec-Butylbenzene	9.32	105	65853	10.355	ppb	100
68) p-Isopropyltoluene	9.46	119	57318	10.467	ppb	100
69) 1,3-Dichlorobenzene	9.42	146	30894	10.511	ppb	100
70) 1,4-Dichlorobenzene	9.51	146	31084	10.382	ppb	100
71) 1,2-Dichlorobenzene	9.86	146	29754	10.521	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.64	75	3306	10.411	ppb	100
73) 1,2,4-Trichlorobenzene	11.44	180	22011	10.961	ppb	100
74) Hexachlorobutadiene	11.61	225	11732	10.570	ppb	100
75) Naphthalene	11.68	128	53915	10.130	ppb	100
76) 1,2,3-Trichlorobenzene	11.92	180	20608	11.124	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



**EPA 8260D**  
**CCV Summaries**



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120702.D  
 Acq On : 07 Dec 2022 05:52 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 07 07:04:28 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	99	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.531	-5.3	105	0.00
4 TMP Dichlorodifluoromethane	10.000	9.773	2.3	96	0.00
5 TMP Chloromethane	10.000	9.780	2.2	101	0.00
6 TMP Vinyl chloride	10.000	9.884	1.2	94	0.00
7 TMP Bromomethane	10.000	9.273	7.3	96	0.00
8 TMP Chloroethane	10.000	10.094	-0.9	92	0.00
9 TMP Trichlorofluoromethane	10.000	9.969	0.3	94	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	71.557	-43.1#	143	0.00
12 TMP 1,1-Dichloroethene	10.000	9.736	2.6	93	0.00
13 TMP Hexane	10.000	11.006	-10.1	108	0.00
14 TMP Methylene chloride	10.000	10.197	-2.0	103	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	50.179	-0.4	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.142	-1.4	94	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.408	-4.1	95	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.338	6.6	96	0.00
19 TMP 1,1-Dichloroethane	10.000	10.081	-0.8	95	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	9.299	7.0	89	0.00
21 TMP 2,2-Dichloropropane	10.000	10.582	-5.8	106	0.00
22 TMP cis-1,2-Dichloroethene	10.000	10.563	-5.6	101	0.00
23 TMP Chloroform	10.000	9.536	4.6	96	0.00
24 TMP 2-Butanone (MEK)	50.000	57.637	-15.3	105	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	9.581	4.2	97	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	9.915	0.9	94	0.00
27 TMP 1,1,1-Trichloroethane	10.000	9.718	2.8	95	0.00
28 TMP 1,1-Dichloropropene	10.000	9.649	3.5	96	0.00
29 TMP Carbon tetrachloride	10.000	9.739	2.6	96	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.518	-5.2	103	0.00
31 TMP Benzene	10.000	9.808	1.9	95	0.00
32 TMP Trichloroethene	10.000	9.475	5.3	90	0.00
33 TMP 1,2-Dichloropropane	10.000	9.221	7.8	97	0.00
34 TMP Bromodichloromethane	10.000	9.362	6.4	97	0.00
35 S Toluene-d8	10.000	10.122	-1.2	97	0.00
36 TMP Dibromomethane	10.000	9.487	5.1	96	0.00
37 TMP 4-Methyl-2-pentanone	50.000	48.380	3.2	94	-0.01
38 TMP cis-1,3-Dichloropropene	10.000	9.629	3.7	96	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	98	0.00
40 TMP Toluene	10.000	9.651	3.5	94	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.550	4.5	94	0.00
42 TMP 1,1,2-Trichloroethane	10.000	9.424	5.8	93	0.00
43 TMP 2-Hexanone	50.000	55.003	-10.0	106	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120702.D  
 Acq On : 07 Dec 2022 05:52 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 07 07:04:28 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	9.748	2.5	96	0.00
45 TMP Tetrachloroethene	10.000	9.804	2.0	96	0.00
46 TMP Dibromochloromethane	10.000	9.974	0.3	98	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	9.730	2.7	95	0.00
48 TMP Chlorobenzene	10.000	9.370	6.3	94	0.00
49 TMP Ethylbenzene	10.000	10.054	-0.5	94	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.301	7.0	96	0.00
51 TMP m,p-Xylene	20.000	19.570	2.1	95	0.00
52 TMP o-Xylene	10.000	9.695	3.0	94	0.00
53 TMP Styrene	10.000	9.566	4.3	95	0.00
54 TMP Isopropylbenzene	10.000	9.596	4.0	96	0.00
55 TMP Bromoform	10.000	9.695	3.0	99	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	99	0.00
57 S 4-Bromofluorobenzene	10.000	9.965	0.4	100	0.00
58 TMP n-Propylbenzene	10.000	9.568	4.3	96	0.00
59 TMP Bromobenzene	10.000	9.171	8.3	94	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.496	5.0	97	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	10.392	-3.9	105	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.576	4.2	97	0.00
63 TMP 2-Chlorotoluene	10.000	9.022	9.8	94	0.00
64 TMP 4-Chlorotoluene	10.000	9.317	6.8	95	0.00
65 TMP tert-Butylbenzene	10.000	9.484	5.2	96	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.209	7.9	95	0.00
67 TMP sec-Butylbenzene	10.000	9.592	4.1	97	0.00
68 TMP p-Isopropyltoluene	10.000	9.759	2.4	97	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.327	6.7	97	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.372	6.3	96	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.648	3.5	95	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.170	8.3	99	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.241	7.6	96	0.00
74 TMP Hexachlorobutadiene	10.000	9.952	0.5	100	0.00
75 TMP Naphthalene	10.000	8.870	11.3	94	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.191	8.1	94	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120702.D  
 Acq On : 07 Dec 2022 05:52 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 07 07:04:28 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	99	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.278	-5.3	105	0.00
4 TMP Dichlorodifluoromethane	0.712	0.695	2.4	96	0.00
5 TMP Chloromethane	0.951	0.849	10.7	101	0.00
6 TMP Vinyl chloride	0.862	0.739	14.3	94	0.00
7 TMP Bromomethane	0.441	0.446	-1.1	96	0.00
8 TMP Chloroethane	0.341	0.336	1.5	92	0.00
9 TMP Trichlorofluoromethane	0.899	0.896	0.3	94	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.045	-45.2#	143	0.00
12 TMP 1,1-Dichloroethene	0.271	0.241	11.1	93	0.00
13 TMP Hexane	0.469	0.471	-0.4	108	0.00
14 TMP Methylene chloride	0.269	0.287	-6.7	103	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.750	7.6	94	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.278	11.5	95	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.890	6.6	96	0.00
19 TMP 1,1-Dichloroethane	0.547	0.502	8.2	95	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.286	6.8	89	0.00
21 TMP 2,2-Dichloropropane	0.347	0.326	6.1	106	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.309	6.1	101	0.00
23 TMP Chloroform	0.477	0.454	4.8	96	0.00
24 TMP 2-Butanone (MEK)	0.173	0.191	-10.4	105	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.708	4.2	97	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.391	18.4	94	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.450	8.9	95	0.00
28 TMP 1,1-Dichloropropene	0.368	0.355	3.5	96	0.00
29 TMP Carbon tetrachloride	0.396	0.386	2.5	96	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.063	-5.0	103	0.00
31 TMP Benzene	1.103	0.995	9.8	95	0.00
32 TMP Trichloroethene	0.368	0.302	17.9	90	0.00
33 TMP 1,2-Dichloropropane	0.315	0.290	7.9	97	0.00
34 TMP Bromodichloromethane	0.375	0.351	6.4	97	0.00
35 S Toluene-d8	0.975	0.987	-1.2	97	0.00
36 TMP Dibromomethane	0.181	0.172	5.0	96	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.052	3.7	94	-0.01
38 TMP cis-1,3-Dichloropropene	0.443	0.427	3.6	96	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
40 TMP Toluene	0.986	0.833	15.5	94	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.485	4.5	94	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.261	8.4	93	0.00
43 TMP 2-Hexanone	0.312	0.343	-9.9	106	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120702.D  
 Acq On : 07 Dec 2022 05:52 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 07 07:04:28 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.472	2.5	96	0.00
45 TMP Tetrachloroethene	0.420	0.324	22.9#	96	0.00
46 TMP Dibromochloromethane	0.366	0.365	0.3	98	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.314	17.2	95	0.00
48 TMP Chlorobenzene	0.957	0.897	6.3	94	0.00
49 TMP Ethylbenzene	1.885	1.610	14.6	94	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.333	7.0	96	0.00
51 TMP m,p-Xylene	0.705	0.600	14.9	95	0.00
52 TMP o-Xylene	0.683	0.584	14.5	94	0.00
53 TMP Styrene	1.004	0.961	4.3	95	0.00
54 TMP Isopropylbenzene	1.606	1.541	4.0	96	0.00
55 TMP Bromoform	0.269	0.261	3.0	99	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
57 S 4-Bromofluorobenzene	0.864	0.861	0.3	100	0.00
58 TMP n-Propylbenzene	3.386	3.240	4.3	96	0.00
59 TMP Bromobenzene	0.790	0.724	8.4	94	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.357	5.0	97	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.762	-4.0	105	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.573	4.3	97	0.00
63 TMP 2-Chlorotoluene	2.054	1.853	9.8	94	0.00
64 TMP 4-Chlorotoluene	2.355	2.194	6.8	95	0.00
65 TMP tert-Butylbenzene	2.194	2.080	5.2	96	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.371	7.9	95	0.00
67 TMP sec-Butylbenzene	3.160	3.031	4.1	97	0.00
68 TMP p-Isopropyltoluene	2.706	2.641	2.4	97	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.370	6.7	97	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.404	6.3	96	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.313	3.5	95	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.145	8.2	99	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.904	7.6	96	0.00
74 TMP Hexachlorobutadiene	0.516	0.513	0.6	100	0.00
75 TMP Naphthalene	2.401	2.130	11.3	94	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.814	8.0	94	0.00

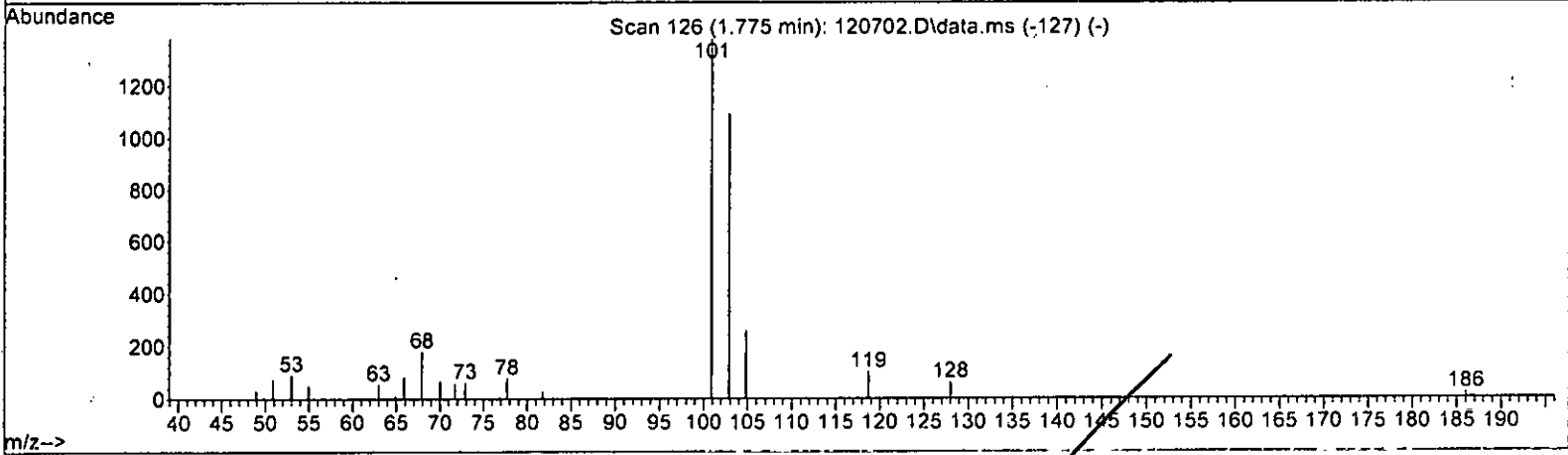
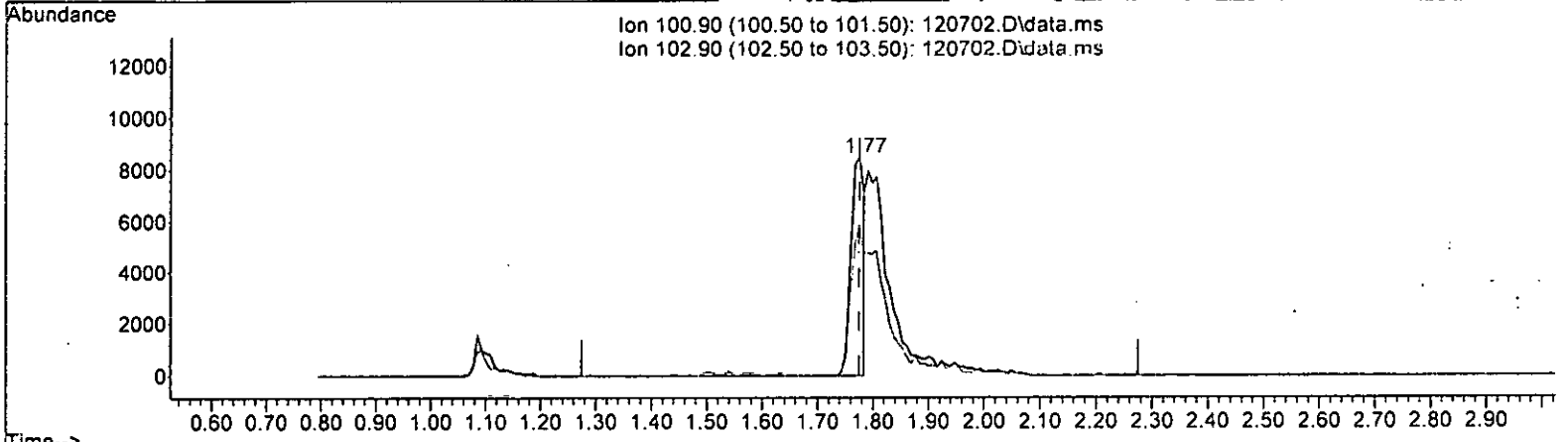
(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120702.D  
 Acq On : 07 Dec 2022 05:52 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 07 07:04:28 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120702.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.775min (-0.000) 3.546 ppb

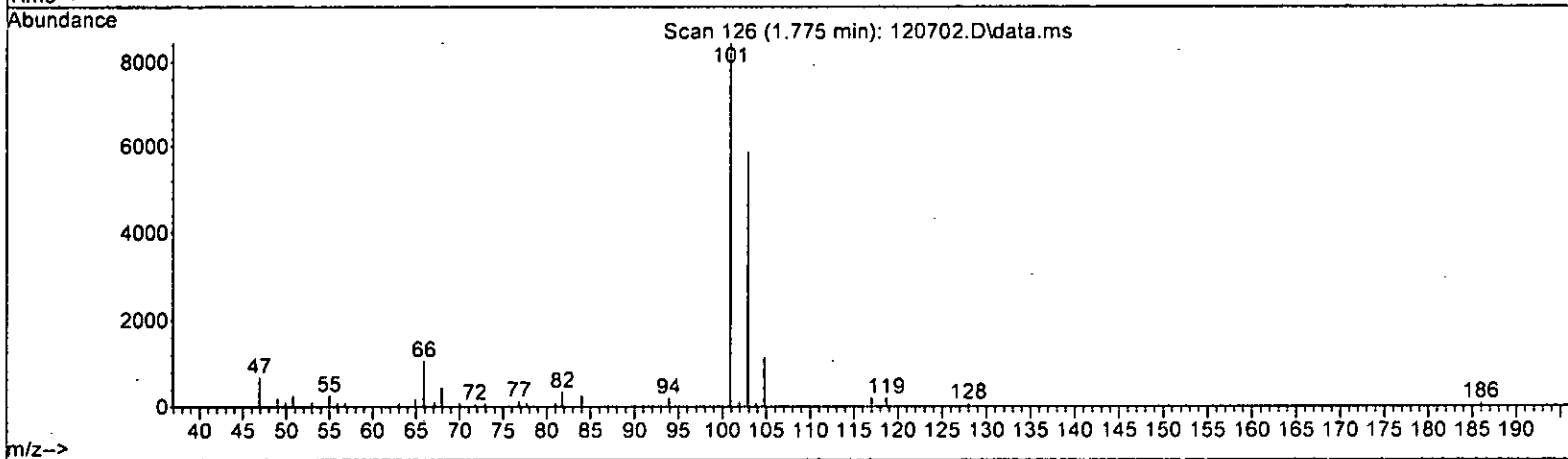
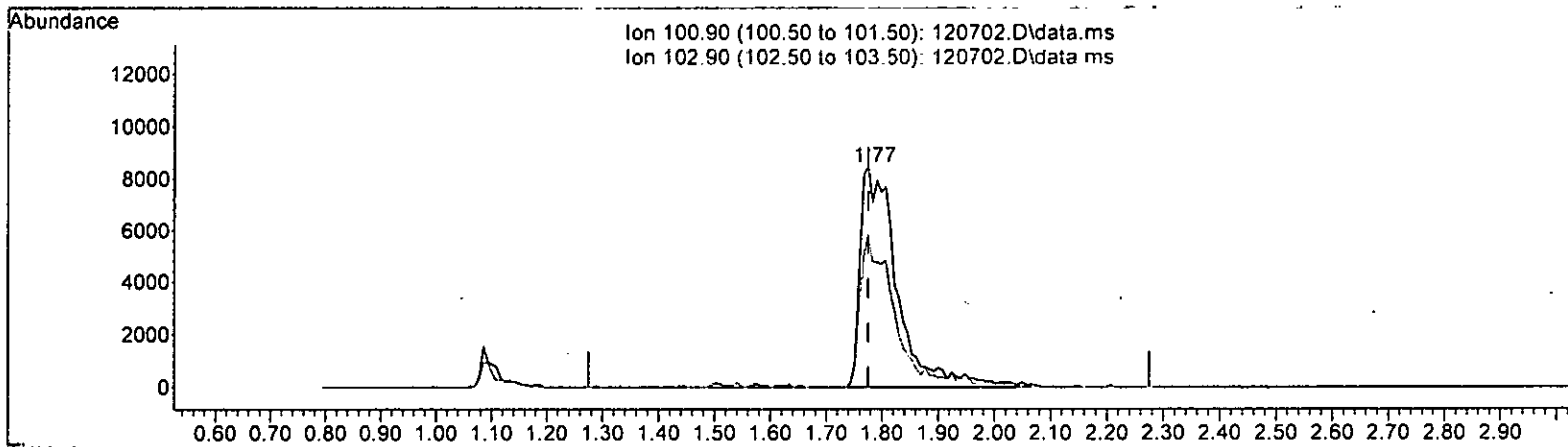
response	13696
Ion	Exp% Act%
100.90	100.00 100.00
102.90	42.20 69.54
0.00	0.00 0.00
0.00	0.00 0.00

*LM 1217*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120702.D  
 Acq On : 07 Dec 2022 05:52 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 07 07:04:28 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120702.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.775min (-0.000) 9.969 ppb m

response 38503

Ion	Expt	Act%
100.90	100.00	100.00
102.90	42.20	69.54
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.7*

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120702.D  
 Acq On : 07 Dec 2022 05:52 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 07 07:04:28 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	42952	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	34617	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	18977	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11921	10.531	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	105.30%	
30) 1,2-Dichloroethane-d4	4.36	102	2693	10.518	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery	=	105.20%	
35) Toluene-d8	5.98	98	42408	10.122	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery	=	101.20%	
57) 4-Bromofluorobenzene	8.38	95	16340	9.965	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery	=	99.70%	
Target Compounds						
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.09	85	29869	9.773	ppb	92
5) Chloromethane	1.23	50	36448	9.780	ppb	96
6] Vinyl chloride	1.30	62	31756	9.884	ppb	94
7) Bromomethane	1.54	94	19137	9.273	ppb	68
8] Chloroethane	1.61	64	14431	10.094	ppb	85
9) Trichlorofluoromethane	1.77	101	38503m	9.969	ppb	
10) 2-Propanol	2.40	45	350	No Calib		
11) Acetone	2.27	58	9590	71.557	ppb #	81
12] 1,1-Dichloroethene	2.19	96	10345	9.736	ppb	85
13) Hexane	3.05	57	20248	11.006	ppb	92
14) Methylene chloride	2.61	84	12309	10.197	ppb	79
15) t-Butyl alcohol (TBA)	2.74	59	9972	50.179	ppb	89
16] Methyl t-butyl ether (...)	2.84	73	32231	10.142	ppb	99
17] trans-1,2-Dichloroethene	2.83	96	11948	10.408	ppb	91
18) Diisopropyl ether (DIPE)	3.24	45	38209	9.338	ppb	97
19] 1,1-Dichloroethane	3.18	63	21552	10.081	ppb	97
20) Ethyl t-butyl ether (E...)	3.55	87	12274	9.299	ppb	96
21) 2,2-Dichloropropane	3.67	77	13982	10.582	ppb	94
22] cis-1,2-Dichloroethene	3.67	96	13259	10.563	ppb	96
23) Chloroform	3.94	83	19518	9.536	ppb	92
24) 2-Butanone (MEK)	3.70	43	41089	57.637	ppb	96
25) t-Amyl methyl ether (T...)	4.49	73	30397	9.581	ppb	98
26] 1,2-Dichloroethane (EDC)	4.41	62	16773	9.915	ppb	99
27] 1,1,1-Trichloroethane	4.08	97	19345	9.718	ppb	98
28) 1,1-Dichloropropene	4.22	75	15260	9.649	ppb	88
29) Carbon tetrachloride	4.21	117	16568	9.739	ppb	95
31] Benzene	4.39	78	42749	9.808	ppb	98
32] Trichloroethene	4.93	95	12974	9.475	ppb	98
33) 1,2-Dichloropropane	5.13	63	12470	9.221	ppb	100
34) Bromodichloromethane	5.37	83	15089	9.362	ppb	88
36) Dibromomethane	5.23	93	7389	9.487	ppb	78

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120702.D  
 Acq On : 07 Dec 2022 05:52 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 07 07:04:28 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

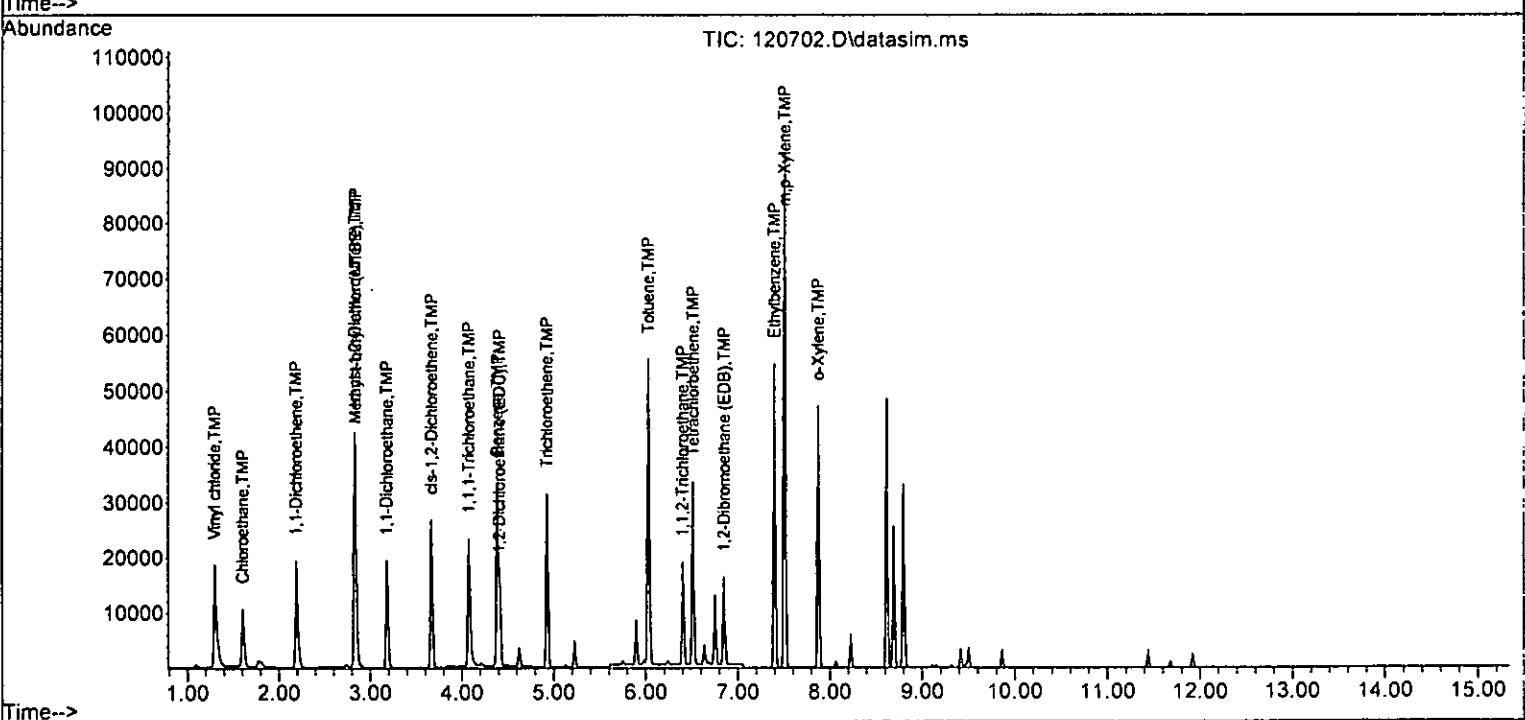
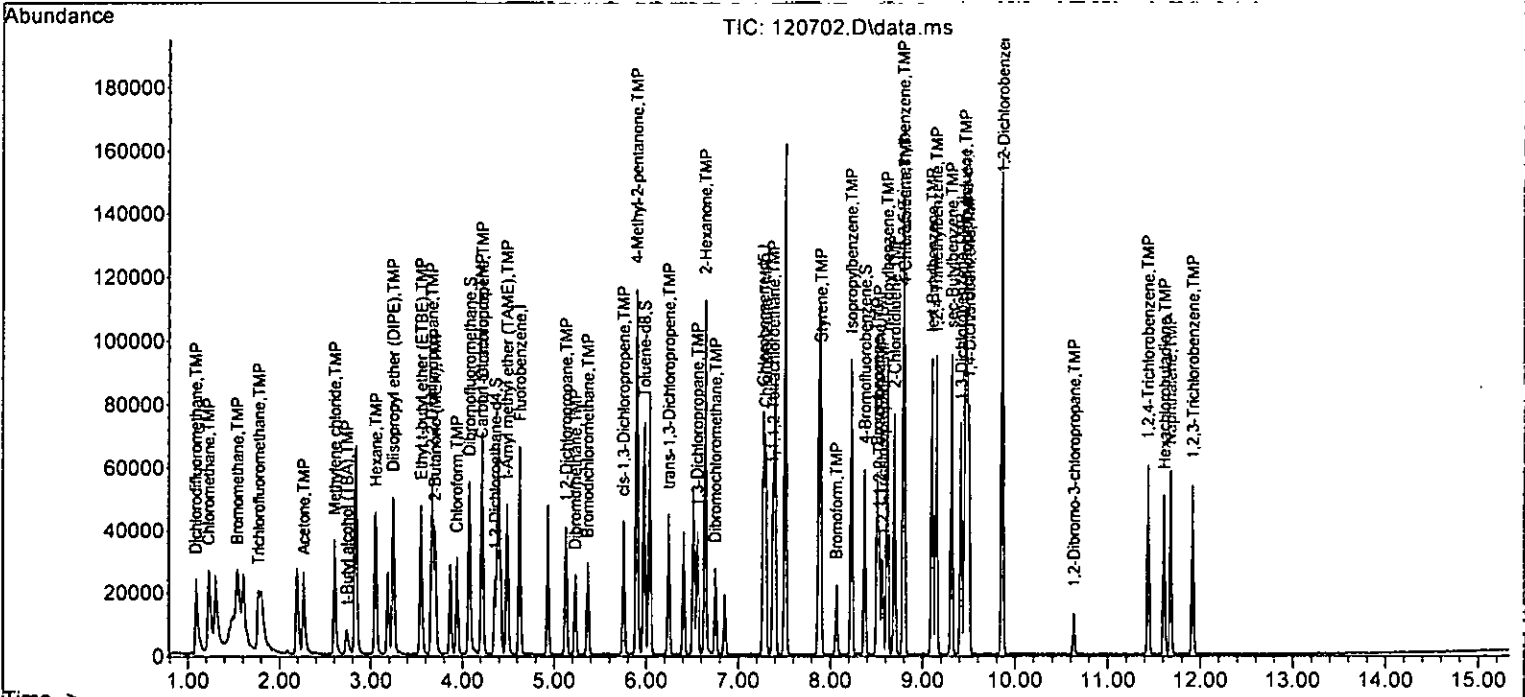
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.90	85	11252	48.380	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	18324	9.629	ppb	94
40] Toluene	6.03	92	28839	9.651	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	16782	9.550	ppb	94
42] 1,1,2-Trichloroethane	6.40	83	9045	9.424	ppb	99
43) 2-Hexanone	6.64	43	59323	55.003	ppb	98
44) 1,3-Dichloropropane	6.55	76	16345	9.748	ppb	97
45] Tetrachloroethene	6.51	164	11229	9.804	ppb	98
46) Dibromochloromethane	6.75	129	12642	9.974	ppb	92
47] 1,2-Dibromoethane (EDB)	6.85	107	10879	9.730	ppb	99
48) Chlorobenzene	7.30	112	31047	9.370	ppb	95
49] Ethylbenzene	7.40	91	55734	10.054	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.38	131	11532	9.301	ppb #	75
51] m,p-Xylene	7.51	106	41552	19.570	ppb	95
52] o-Xylene	7.88	106	20205	9.695	ppb #	68
53) Styrene	7.90	104	33251	9.566	ppb	93
54) Isopropylbenzene	8.23	105	53353	9.596	ppb	98
55) Bromoform	8.07	173	9030	9.695	ppb	91
58) n-Propylbenzene	8.62	91	61480	9.568	ppb	91
59) Bromobenzene	8.51	156	13740	9.171	ppb	84
60) 1,3,5-Trimethylbenzene	8.79	105	44722	9.496	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	14465	10.392	ppb	78
62) 1,2,3-Trichloropropane	8.57	75	10880	9.576	ppb	97
63) 2-Chlorotoluene	8.70	91	35169	9.022	ppb	99
64) 4-Chlorotoluene	8.81	91	41638	9.317	ppb	97
65) tert-Butylbenzene	9.10	119	39480	9.484	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	44993	9.209	ppb	99
67) sec-Butylbenzene	9.31	105	57519	9.592	ppb	99
68) p-Isopropyltoluene	9.46	119	50121	9.759	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	26002	9.327	ppb	91
70) 1,4-Dichlorobenzene	9.50	146	26635	9.372	ppb	97
71) 1,2-Dichlorobenzene	9.86	146	24911	9.648	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.63	75	2752	9.170	ppb	95
73) 1,2,4-Trichlorobenzene	11.44	180	17158	9.241	ppb	97
74) Hexachlorobutadiene	11.61	225	9737	9.952	ppb	94
75) Naphthalene	11.68	128	40422	8.870	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	15444	9.191	ppb	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\12-07-22\  
Data File : 120702.D  
Acq On : 07 Dec 2022 05:52 am  
Operator : LM  
Sample : 10 ppb 8260 CCV 67-192N  
Misc : soil/water  
ALS Vial : 1 Sample Multiplier: 1  
InstName : GCMS11

Quant Time: Dec 07 07:04:28 2022  
Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
Qlast Update : Mon Dec 05 13:11:58 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120725.D  
 Acq On : 07 Dec 2022 04:59 pm  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-25N  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:08 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	103	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.329	6.7	97	0.00
4 TMP Dichlorodifluoromethane	10.000	9.200	8.0	94	0.00
5 TMP Chloromethane	10.000	9.253	7.5	100	0.00
6 TMP Vinyl chloride	10.000	9.530	4.7	95	0.00
7 TMP Bromomethane	10.000	8.106	18.9	90	0.00
8 TMP Chloroethane	10.000	10.225	-2.2	97	0.00
9 TMP Trichlorofluoromethane	10.000	9.338	6.6	91	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	45.487	9.0	95	0.00
12 TMP 1,1-Dichloroethene	10.000	9.451	5.5	94	0.00
13 TMP Hexane	10.000	10.026	-0.3	102	0.00
14 TMP Methylene chloride	10.000	10.001	-0.0	105	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	48.866	2.3	101	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	9.946	0.5	96	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.132	-1.3	97	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.262	7.4	99	0.00
19 TMP 1,1-Dichloroethane	10.000	9.842	1.6	97	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	9.678	3.2	96	0.00
21 TMP 2,2-Dichloropropane	10.000	9.930	0.7	104	0.00
22 TMP cis-1,2-Dichloroethene	10.000	9.700	3.0	96	0.00
23 TMP Chloroform	10.000	9.573	4.3	101	0.00
24 TMP 2-Butanone (MEK)	50.000	44.905	10.2	86	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	9.471	5.3	99	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	9.819	1.8	97	0.00
27 TMP 1,1,1-Trichloroethane	10.000	9.530	4.7	97	0.00
28 TMP 1,1-Dichloropropene	10.000	9.825	1.8	102	0.00
29 TMP Carbon tetrachloride	10.000	9.461	5.4	97	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.244	7.6	94	0.00
31 TMP Benzene	10.000	9.606	3.9	97	0.00
32 TMP Trichloroethene	10.000	9.604	4.0	95	0.00
33 TMP 1,2-Dichloropropane	10.000	9.039	9.6	99	0.00
34 TMP Bromodichloromethane	10.000	9.192	8.1	99	0.00
35 S Toluene-d8	10.000	9.581	4.2	95	0.00
36 TMP Dibromomethane	10.000	9.108	8.9	96	0.00
37 TMP 4-Methyl-2-pentanone	50.000	48.190	3.6	97	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.439	5.6	98	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
40 TMP Toluene	10.000	9.825	1.8	96	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.664	3.4	95	0.00
42 TMP 1,1,2-Trichloroethane	10.000	9.711	2.9	97	0.00
43 TMP 2-Hexanone	50.000	51.044	-2.1	99	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120725.D  
 Acq On : 07 Dec 2022 04:59 pm  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-25N  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:08 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	9.719	2.8	97	0.00
45 TMP Tetrachloroethene	10.000	9.870	1.3	98	0.00
46 TMP Dibromochloromethane	10.000	10.295	-2.9	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.038	-0.4	99	0.00
48 TMP Chlorobenzene	10.000	9.879	1.2	100	0.00
49 TMP Ethylbenzene	10.000	10.272	-2.7	97	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.028	-0.3	104	0.00
51 TMP m,p-Xylene	20.000	19.856	0.7	97	0.00
52 TMP o-Xylene	10.000	9.893	1.1	96	0.00
53 TMP Styrene	10.000	9.628	3.7	96	0.00
54 TMP Isopropylbenzene	10.000	9.660	3.4	97	0.00
55 TMP Bromoform	10.000	9.830	1.7	101	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	101	0.00
57 S 4-Bromofluorobenzene	10.000	9.862	1.4	100	0.00
58 TMP n-Propylbenzene	10.000	9.556	4.4	97	0.00
59 TMP Bromobenzene	10.000	9.737	2.6	101	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.397	6.0	97	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.638	3.6	99	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.771	2.3	101	0.00
63 TMP 2-Chlorotoluene	10.000	9.205	7.9	97	0.00
64 TMP 4-Chlorotoluene	10.000	9.255	7.4	96	0.00
65 TMP tert-Butylbenzene	10.000	9.348	6.5	96	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.276	7.2	97	0.00
67 TMP sec-Butylbenzene	10.000	9.504	5.0	97	0.00
68 TMP p-Isopropyltoluene	10.000	9.540	4.6	96	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.402	6.0	99	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.413	5.9	98	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.695	3.0	97	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.531	4.7	104	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.569	4.3	101	0.00
74 TMP Hexachlorobutadiene	10.000	9.997	0.0	102	0.00
75 TMP Naphthalene	10.000	9.305	7.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.566	4.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120725.D  
 Acq On : 07 Dec 2022 04:59 pm  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-25N  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:08 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	103	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.246	6.8	97	0.00
4 TMP Dichlorodifluoromethane	0.712	0.655	8.0	94	0.00
5 TMP Chloromethane	0.951	0.804	15.5	100	0.00
6 TMP Vinyl chloride	0.862	0.713	17.3	95	0.00
7 TMP Bromomethane	0.441	0.402	8.8	90	0.00
8 TMP Chloroethane	0.341	0.340	0.3	97	0.00
9 TMP Trichlorofluoromethane	0.899	0.840	6.6	91	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.028	9.7	95	0.00
12 TMP 1,1-Dichloroethene	0.271	0.234	13.7	94	0.00
13 TMP Hexane	0.469	0.431	8.1	102	0.00
14 TMP Methylene chloride	0.269	0.281	-4.5	105	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	101	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.736	9.4	96	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.271	13.7	97	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.882	7.5	99	0.00
19 TMP 1,1-Dichloroethane	0.547	0.490	10.4	97	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.297	3.3	96	0.00
21 TMP 2,2-Dichloropropane	0.347	0.306	11.8	104	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.284	13.7	96	0.00
23 TMP Chloroform	0.477	0.456	4.4	101	0.00
24 TMP 2-Butanone (MEK)	0.173	0.150	13.3	86	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.700	5.3	99	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.387	19.2	97	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.442	10.5	97	0.00
28 TMP 1,1-Dichloropropene	0.368	0.362	1.6	102	0.00
29 TMP Carbon tetrachloride	0.396	0.375	5.3	97	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	94	0.00
31 TMP Benzene	1.103	0.975	11.6	97	0.00
32 TMP Trichloroethene	0.368	0.306	16.8	95	0.00
33 TMP 1,2-Dichloropropane	0.315	0.285	9.5	99	0.00
34 TMP Bromodichloromethane	0.375	0.345	8.0	99	0.00
35 S Toluene-d8	0.975	0.935	4.1	95	0.00
36 TMP Dibromomethane	0.181	0.165	8.8	96	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.052	3.7	97	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.418	5.6	98	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
40 TMP Toluene	0.986	0.848	14.0	96	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.491	3.3	95	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.269	5.6	97	0.00
43 TMP 2-Hexanone	0.312	0.318	-1.9	99	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM511\12-07-22\  
 Data File : 120725.D  
 Acq On : 07 Dec 2022 04:59 pm  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-25N  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 08 07:50:08 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.471	2.7	97	0.00
45 TMP Tetrachloroethene	0.420	0.327	22.1#	98	0.00
46 TMP Dibromochloromethane	0.366	0.377	-3.0	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.324	14.5	99	0.00
48 TMP Chlorobenzene	0.957	0.946	1.1	100	0.00
49 TMP Ethylbenzene	1.885	1.645	12.7	97	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.359	-0.3	104	0.00
51 TMP m,p-Xylene	0.705	0.609	13.6	97	0.00
52 TMP o-Xylene	0.683	0.596	12.7	96	0.00
53 TMP Styrene	1.004	0.967	3.7	96	0.00
54 TMP Isopropylbenzene	1.606	1.552	3.4	97	0.00
55 TMP Bromoform	0.269	0.264	1.9	101	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
57 S 4-Bromofluorobenzene	0.864	0.852	1.4	100	0.00
58 TMP n-Propylbenzene	3.386	3.236	4.4	97	0.00
59 TMP Bromobenzene	0.790	0.769	2.7	101	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.332	6.0	97	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.707	3.5	99	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.585	2.3	101	0.00
63 TMP 2-Chlorotoluene	2.054	1.891	7.9	97	0.00
64 TMP 4-Chlorotoluene	2.355	2.180	7.4	96	0.00
65 TMP tert-Butylbenzene	2.194	2.051	6.5	96	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.388	7.3	97	0.00
67 TMP sec-Butylbenzene	3.160	3.003	5.0	97	0.00
68 TMP p-Isopropyltoluene	2.706	2.582	4.6	96	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.381	6.0	99	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.410	5.9	98	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.319	3.1	97	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.151	4.4	104	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.936	4.3	101	0.00
74 TMP Hexachlorobutadiene	0.516	0.515	0.2	102	0.00
75 TMP Naphthalene	2.401	2.235	6.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.847	4.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120725.D  
 Acq On : 07 Dec 2022 04:59 pm  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-25N  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:08 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	44677	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	34847	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19272	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	10984	9.329	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	93.30%	
30) 1,2-Dichloroethane-d4	4.36	102	2462	9.244	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	92.40%	
35) Toluene-d8	5.98	98	41755	9.581	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	95.80%	
57) 4-Bromofluorobenzene	8.38	95	16422	9.862	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	98.60%	
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	29247	9.200	ppb	89	
5) Chloromethane	1.23	50	35919	9.253	ppb	93	
6] Vinyl chloride	1.30	62	31852	9.530	ppb	93	
7) Bromomethane	1.54	94	17949	8.106	ppb	73	
8] Chloroethane	1.61	64	15204	10.225	ppb	83	
9) Trichlorofluoromethane	1.77	101	37511	9.338	ppb	63	
10) 2-Propanol	2.40	45	332	No Calib			
11) Acetone	2.27	58	6341	45.487	ppb	90	
12] 1,1-Dichloroethene	2.19	96	10446	9.451	ppb	85	
13) Hexane	3.05	57	19241	10.026	ppb	91	
14) Methylene chloride	2.61	84	12574	10.001	ppb	84	
15) t-Butyl alcohol (TBA)	2.74	59	10101	48.866	ppb	98	
16] Methyl t-butyl ether (...)	2.84	73	32880	9.946	ppb	98	
17] trans-1,2-Dichloroethene	2.83	96	12099	10.132	ppb	91	
18) Diisopropyl ether (DIPE)	3.24	45	39419	9.262	ppb	99	
19] 1,1-Dichloroethane	3.18	63	21887	9.842	ppb	97	
20) Ethyl t-butyl ether (E...)	3.55	87	13288	9.678	ppb	91	
21) 2,2-Dichloropropane	3.67	77	13663	9.930	ppb	86	
22] cis-1,2-Dichloroethene	3.67	96	12667	9.700	ppb	95	
23) Chloroform	3.94	83	20381	9.573	ppb	91	
24) 2-Butanone (MEK)	3.71	43	33557	44.905	ppb	96	
25) t-Amyl methyl ether (T...)	4.49	73	31256	9.471	ppb	96	
26] 1,2-Dichloroethane (EDC)	4.42	62	17279	9.819	ppb	96	
27] 1,1,1-Trichloroethane	4.08	97	19733	9.530	ppb	97	
28) 1,1-Dichloropropene	4.22	75	16163	9.825	ppb	97	
29) Carbon tetrachloride	4.21	117	16740	9.461	ppb	94	
31] Benzene	4.39	78	43552	9.606	ppb	92	
32] Trichloroethene	4.93	95	13677	9.604	ppb	96	
33) 1,2-Dichloropropane	5.13	63	12714	9.039	ppb	100	
34) Bromodichloromethane	5.37	83	15411	9.192	ppb	92	
36) Dibromomethane	5.23	93	7379	9.108	ppb	79	

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120725.D  
 Acq On : 07 Dec 2022 04:59 pm  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-25N  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

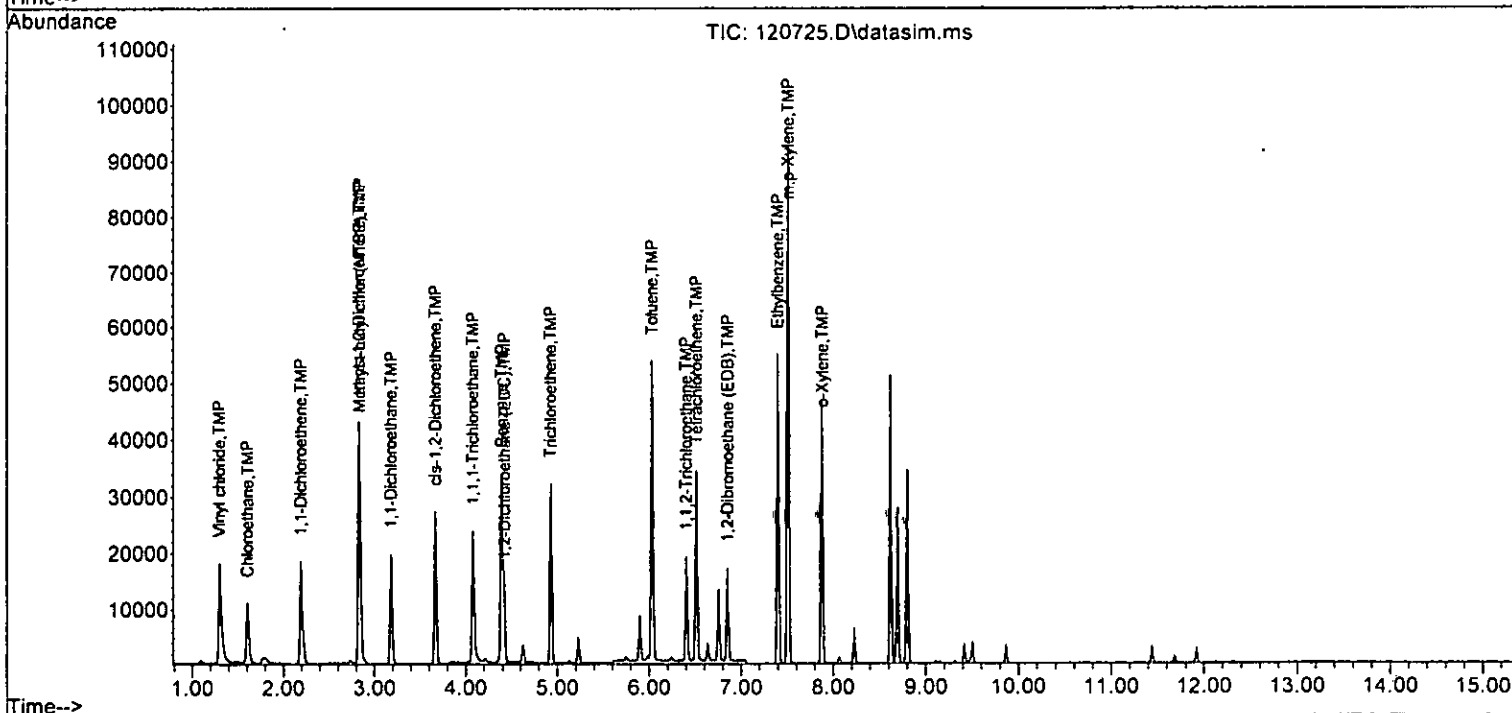
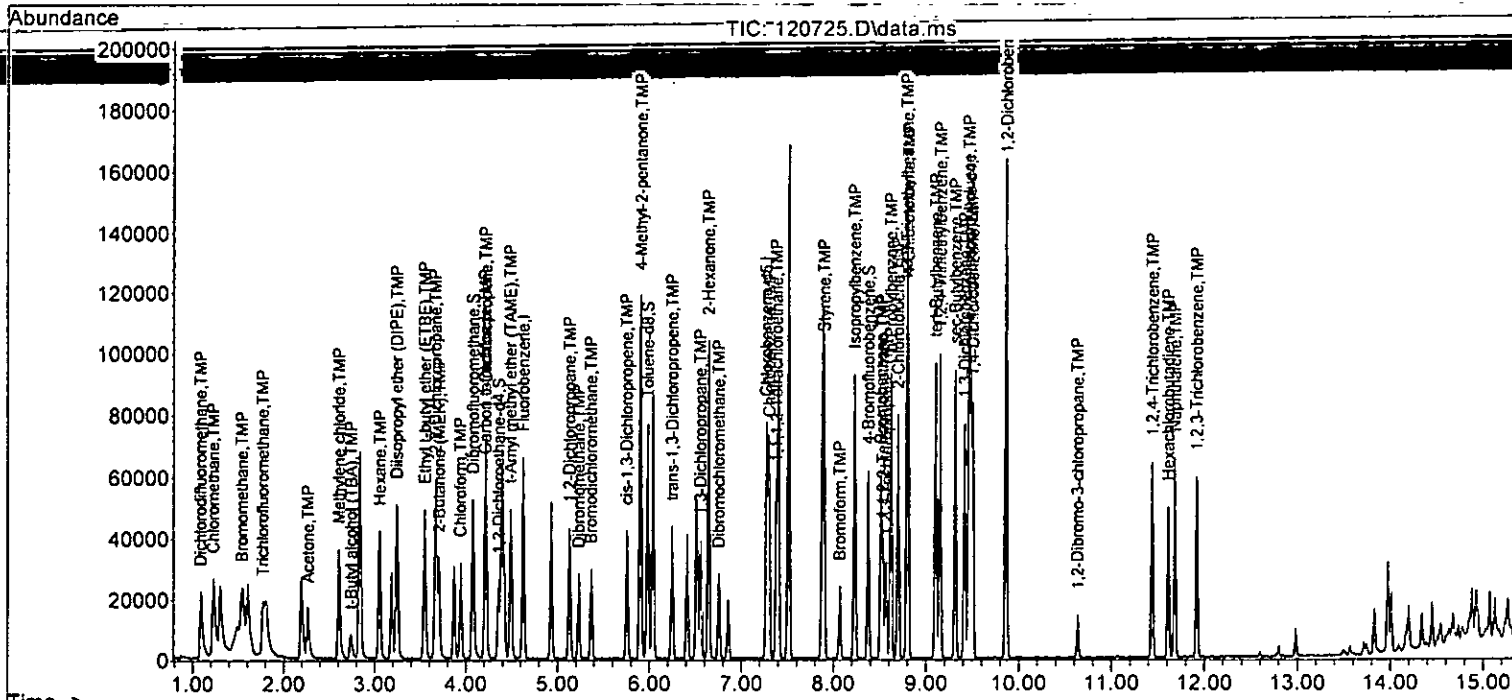
Quant Time: Dec 08 07:50:08 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11658	48.190	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	18684	9.439	ppb	96
40] Toluene	6.03	92	29554	9.825	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	17095	9.664	ppb	99
42] 1,1,2-Trichloroethane	6.40	83	9381	9.711	ppb	99
43) 2-Hexanone	6.64	43	55419	51.044	ppb	96
44) 1,3-Dichloropropane	6.55	76	16404	9.719	ppb	98
45] Tetrachloroethene	6.51	164	11380	9.870	ppb	99
46) Dibromochloromethane	6.75	129	13136	10.295	ppb	93
47] 1,2-Dibromoethane (EDB)	6.85	107	11297	10.038	ppb	100
48) Chlorobenzene	7.30	112	32953	9.879	ppb	95
49] Ethylbenzene	7.40	91	57314	10.272	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	12516	10.028	ppb	82
51] m,p-Xylene	7.51	106	42438	19.856	ppb	99
52] o-Xylene	7.88	106	20754	9.893	ppb	99
53) Styrene	7.90	104	33691	9.628	ppb	92
54) Isopropylbenzene	8.23	105	54067	9.660	ppb	97
55) Bromoform	8.07	173	9217	9.830	ppb	93
58) n-Propylbenzene	8.62	91	62357	9.556	ppb	92
59) Bromobenzene	8.51	156	14815	9.737	ppb	90
60) 1,3,5-Trimethylbenzene	8.79	105	44943	9.397	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	13623	9.638	ppb	80
62) 1,2,3-Trichloropropane	8.57	75	11275	9.771	ppb	91
63) 2-Chlorotoluene	8.70	91	36440	9.205	ppb	99
64) 4-Chlorotoluene	8.81	91	42004	9.255	ppb	98
65) tert-Butylbenzene	9.10	119	39520	9.348	ppb	94
66) 1,2,4-Trimethylbenzene	9.15	105	46027	9.276	ppb	99
67) sec-Butylbenzene	9.31	105	57875	9.504	ppb	96
68) p-Isopropyltoluene	9.46	119	49759	9.540	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	26618	9.402	ppb	91
70) 1,4-Dichlorobenzene	9.50	146	27169	9.413	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	25423	9.695	ppb	90
72) 1,2-Dibromo-3-chloropr...	10.63	75	2905	9.531	ppb	93
73) 1,2,4-Trichlorobenzene	11.44	180	18043	9.569	ppb	100
74) Hexachlorobutadiene	11.61	225	9933	9.997	ppb	92
75) Naphthalene	11.68	128	43064	9.305	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	16325	9.566	ppb	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120725.D  
 Acq On : 07 Dec 2022 04:59 pm  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-25N  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:08 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M





Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM513\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCM513

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	84	0.01
2 TMP Ethanol	-1.000	0.000	0.0	55	0.00
3 S Dibromofluoromethane	10.000	8.780	12.2	71	0.00
4 TMP Dichlorodifluoromethane	10.000	11.076	-10.8	90	0.01
5 TMP Chloromethane	10.000	12.891	-28.9#	105	0.01
6 TMP Vinyl chloride	10.000	12.756	-27.6#	93	0.01
7 TMP Bromomethane	10.000	11.200	-12.0	84	0.01
8 TMP Chloroethane	10.000	9.926	0.7	76	0.00
9 TMP Trichlorofluoromethane	10.000	9.670	3.3	77	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	56.301	-12.6	101	0.01
12 TMP 1,1-Dichloroethene	10.000	11.619	-16.2	90	0.01
13 TMP Hexane	10.000	14.496	-45.0#	116	0.00
14 TMP Methylene chloride	10.000	13.026	-30.3#	107	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	67.986	-36.0#	113	0.01
16 TMP Methyl t-butyl ether (MTBE)	10.000	12.327	-23.3#	95	0.01
17 TMP trans-1,2-Dichloroethene	10.000	11.685	-16.9	91	0.01
18 TMP Diisopropyl ether (DIPE)	10.000	12.947	-29.5#	95	0.01
19 TMP 1,1-Dichloroethane	10.000	14.171	-41.7#	106	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.755	-7.6	86	0.01
21 TMP 2,2-Dichloropropane	10.000	12.618	-26.2#	97	0.00
22 TMP cis-1,2-Dichloroethene	10.000	11.480	-14.8	88	0.00
23 TMP Chloroform	10.000	11.025	-10.3	89	0.00
24 TMP 2-Butanone (MEK)	50.000	60.702	-21.4#	104	0.01
25 TMP t-Amyl methyl ether (TAME)	10.000	12.257	-22.6#	96	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	11.290	-12.9	86	0.01
27 TMP 1,1,1-Trichloroethane	10.000	10.114	-1.1	78	0.00
28 TMP 1,1-Dichloropropene	10.000	11.705	-17.1	96	0.00
29 TMP Carbon tetrachloride	10.000	8.322	16.8	69	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.634	3.7	79	0.00
31 TMP Benzene	10.000	14.325	-43.2#	107	0.00
32 TMP Trichloroethene	10.000	10.963	-9.6	83	0.00
33 TMP 1,2-Dichloropropane	10.000	14.439	-44.4#	108	0.00
34 TMP Bromodichloromethane	10.000	11.054	-10.5	89	0.00
35 S Toluene-d8	10.000	10.453	-4.5	84	0.00
36 TMP Dibromomethane	10.000	11.106	-11.1	88	0.00
37 TMP 4-Methyl-2-pentanone	50.000	54.648	-9.3	89	0.00
38 TMP cis-1,3-Dichloropropene	10.000	11.961	-19.6	99	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	67	0.00
40 TMP Toluene	10.000	13.765	-37.7#	92	0.00
41 TMP trans-1,3-Dichloropropene	10.000	13.482	-34.8#	94	0.00
42 TMP 1,1,2-Trichloroethane	10.000	15.528	-55.3#	103	0.00
43 TMP 2-Hexanone	50.000	78.305	-56.6#	107	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	14.457	-44.6#	97	0.00
45 TMP Tetrachloroethene	10.000	9.082	9.2	62	0.00
46 TMP Dibromochloromethane	10.000	9.298	7.0	63	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	12.343	-23.4#	79	0.00
48 TMP Chlorobenzene	10.000	10.348	-3.5	70	0.00
49 TMP Ethylbenzene	10.000	13.829	-38.3#	89	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	8.959	10.4	61	0.00
51 TMP m,p-Xylene	20.000	23.702	-18.5	76	0.00
52 TMP o-Xylene	10.000	11.222	-12.2	74	0.00
53 TMP Styrene	10.000	10.882	-8.8	74	0.00
54 TMP Isopropylbenzene	10.000	10.879	-8.8	74	0.00
55 TMP Bromoform	10.000	8.674	13.3	59	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	56	0.00
57 S 4-Bromofluorobenzene	10.000	12.726	-27.3#	71	0.00
58 TMP n-Propylbenzene	10.000	14.208	-42.1#	81	0.00
59 TMP Bromobenzene	10.000	9.965	0.4	57	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	12.001	-20.0#	70	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	17.873	-78.7#	103	0.00
62 TMP 1,2,3-Trichloropropane	10.000	16.348	-63.5#	92	0.00
63 TMP 2-Chlorotoluene	10.000	14.133	-41.3#	80	0.00
64 TMP 4-Chlorotoluene	10.000	13.921	-39.2#	79	0.00
65 TMP tert-Butylbenzene	10.000	10.323	-3.2	59	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	11.242	-12.4	66	0.00
67 TMP sec-Butylbenzene	10.000	12.219	-22.2#	70	0.00
68 TMP p-Isopropyltoluene	10.000	10.324	-3.2	60	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.920	0.8	57	0.00
70 TMP 1,4-Dichlorobenzene	10.000	10.130	-1.3	58	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.925	0.7	58	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	13.056	-30.6#	79	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.610	3.9	55	0.00
74 TMP Hexachlorobutadiene	10.000	8.918	10.8	53	0.00
75 TMP Naphthalene	10.000	10.533	-5.3	62	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.347	-3.5	61	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	97279	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	70618	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	36798	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	27208	8.780	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	87.80%	
30) 1,2-Dichloroethane-d4	4.45	102	5596	9.634	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	96.30%	
35) Toluene-d8	6.11	98	91405	10.453	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	104.50%	
57) 4-Bromofluorobenzene	8.51	95	28376	12.726	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	127.30%	
Target Compounds						
2) Ethanol	2.33	45	230	No Calib		Qvalue
4) Dichlorodifluoromethane	1.12	85	62754	11.076	ppb	93
5) Chloromethane	1.26	50	48394	12.891	ppb	94
6] Vinyl chloride	1.34	62	46307	12.756	ppb	100
7) Bromomethane	1.58	94	41960	11.200	ppb	95
8] Chloroethane	1.65	64	19292	9.926	ppb	95
9) Trichlorofluoromethane	1.83	101	95520	9.670	ppb	97
10) 2-Propanol	2.33	45	230	No Calib	#	
11) Acetone	2.33	58	13705	56.301	ppb	# 68
12] 1,1-Dichloroethene	2.27	96	28021	11.619	ppb	96
13) Hexane	3.16	57	33324	14.496	ppb	95
14) Methylene chloride	2.68	84	31728	13.026	ppb	95
15) t-Butyl alcohol (TBA)	2.82	59	14747	67.986	ppb	98
16] Methyl t-butyl ether (...)	2.93	73	71434	12.327	ppb	100
17] trans-1,2-Dichloroethene	2.92	96	31188	11.685	ppb	98
18) Diisopropyl ether (DIPE)	3.35	45	67189	12.947	ppb	97
19] 1,1-Dichloroethane	3.27	63	46960	14.171	ppb	94
20) Ethyl t-butyl ether (E...)	3.66	87	30046	10.755	ppb	89
21] 2,2-Dichloropropane	3.76	77	29925	12.618	ppb	88
22] cis-1,2-Dichloroethene	3.77	96	33083	11.480	ppb	85
23) Chloroform	4.04	83	47350	11.025	ppb	100
24) 2-Butanone (MEK)	3.79	43	66234	60.702	ppb	96
25) t-Amyl methyl ether (T...)	4.61	73	65662	12.257	ppb	93
26] 1,2-Dichloroethane (EDC)	4.53	62	33449	11.290	ppb	93
27] 1,1,1-Trichloroethane	4.19	97	46034	10.114	ppb	94
28) 1,1-Dichloropropene	4.33	75	36446	11.705	ppb	89
29) Carbon tetrachloride	4.33	117	40240	8.322	ppb	99
31] Benzene	4.50	78	110210	14.325	ppb	98
32] Trichloroethene	5.05	95	32430	10.963	ppb	# 70
33) 1,2-Dichloropropane	5.24	63	23429	14.439	ppb	94
34) Bromodichloromethane	5.48	83	34022	11.054	ppb	91
36) Dibromomethane	5.34	93	18657	11.106	ppb	# 71

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

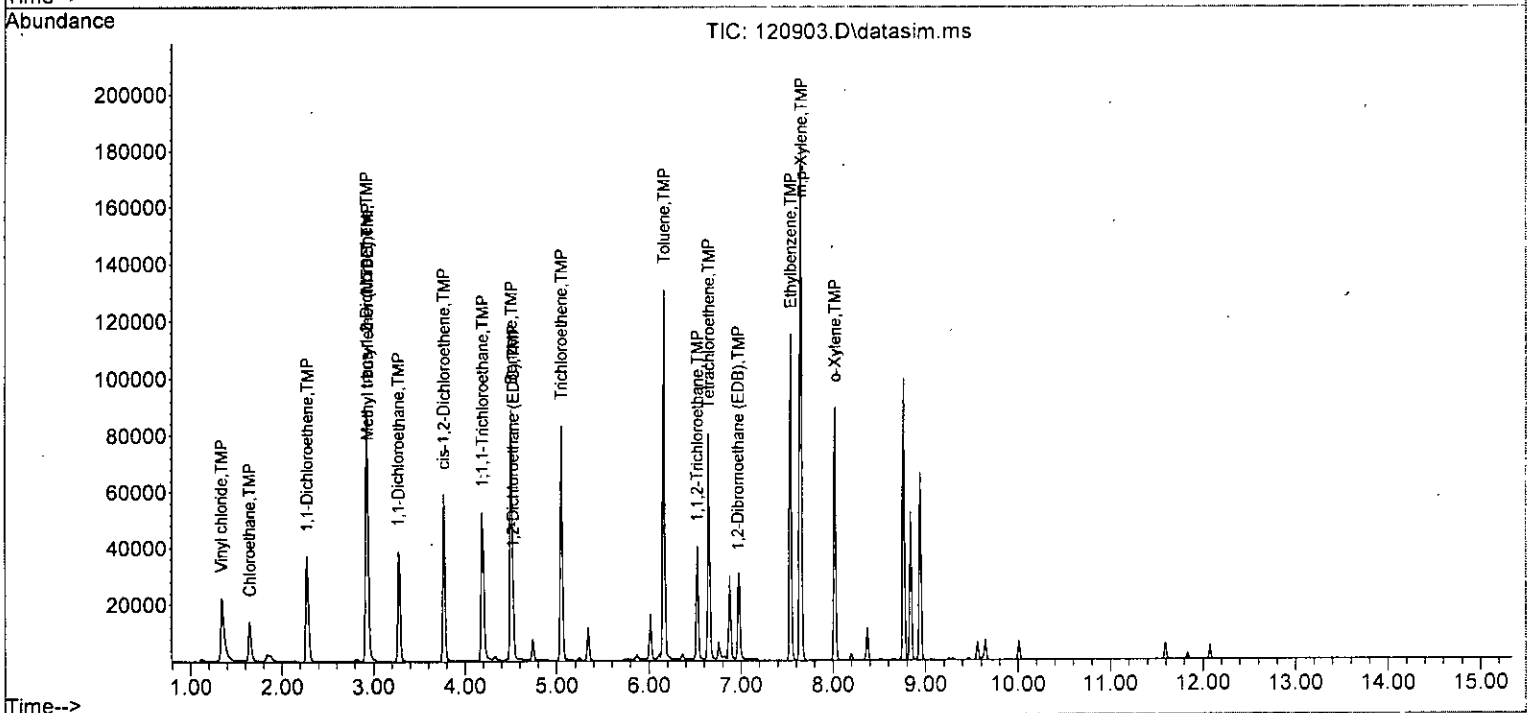
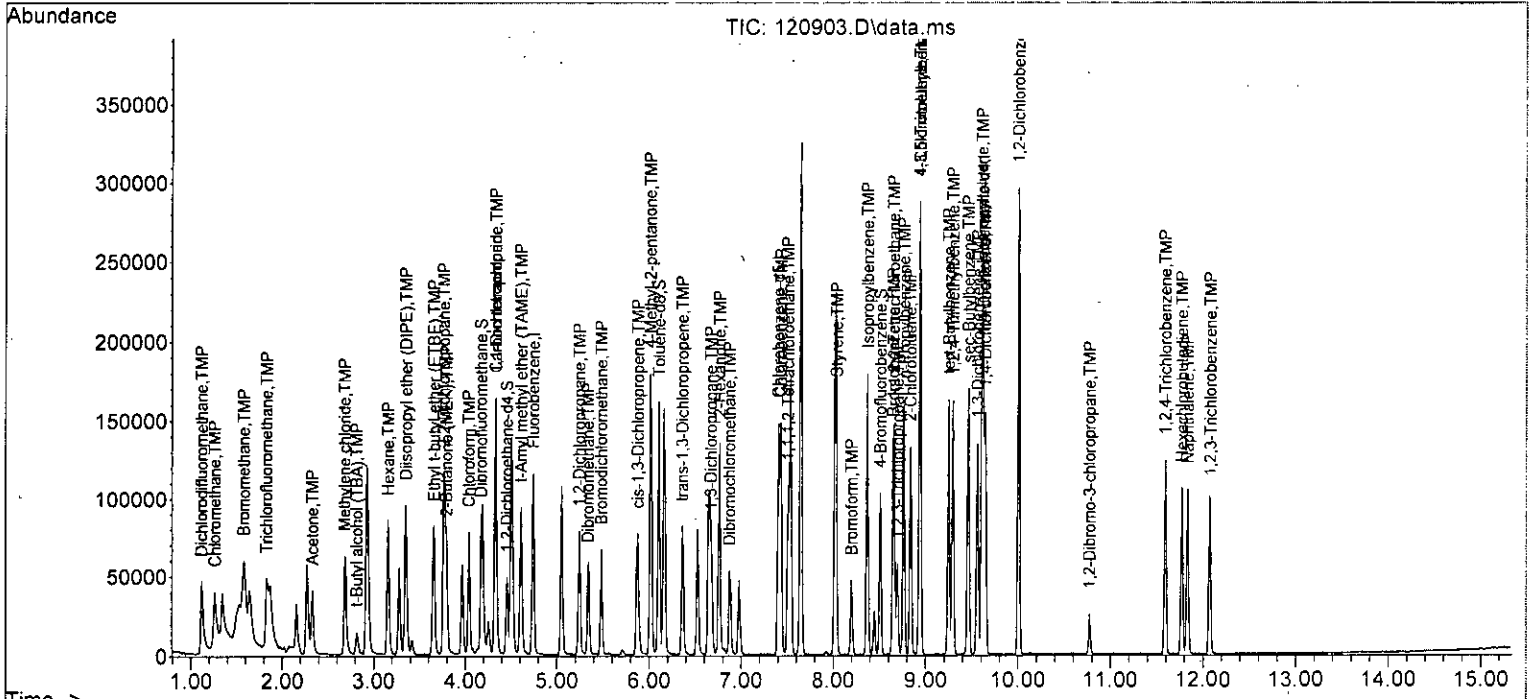
Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	21100	54.648	ppb	# 80
38) cis-1,3-Dichloropropene	5.88	75	38222	11.961	ppb	88
40] Toluene	6.16	92	67582	13.765	ppb	96
41) trans-1,3-Dichloropropene	6.36	75	33872	13.482	ppb	89
42] 1,1,2-Trichloroethane	6.53	83	21444	15.528	ppb	88
43) 2-Hexanone	6.76	43	78261	78.305	ppb	94
44) 1,3-Dichloropropane	6.67	76	34504	14.457	ppb	95
45] Tetrachloroethene	6.65	164	27899	9.082	ppb	98
46) Dibromochloromethane	6.87	129	27917	9.298	ppb	94
47] 1,2-Dibromoethane (EDB)	6.97	107	27323	12.343	ppb	99
48) Chlorobenzene	7.43	112	68916	10.348	ppb	89
49] Ethylbenzene	7.54	91	121053	13.829	ppb	93
50) 1,1,1,2-Tetrachloroethane	7.51	131	26109	8.959	ppb	92
51] m,p-Xylene	7.65	106	91279	23.702	ppb	87
52] o-Xylene	8.02	106	43266	11.222	ppb	86
53) Styrene	8.03	104	65206	10.882	ppb	93
54) Isopropylbenzene	8.37	105	103955	10.879	ppb	93
55) Bromoform	8.20	173	18524	8.674	ppb	99
58) n-Propylbenzene	8.77	91	118019	14.208	ppb	84
59) Bromobenzene	8.65	156	30113	9.965	ppb	# 79
60) 1,3,5-Trimethylbenzene	8.94	105	81069	12.001	ppb	91
61) 1,1,2,2-Tetrachloroethane	8.65	83	28140	17.873	ppb	95
62) 1,2,3-Trichloropropane	8.70	75	20297	16.348	ppb	91
63) 2-Chlorotoluene	8.84	91	66699	14.133	ppb	86
64) 4-Chlorotoluene	8.94	91	79501	13.921	ppb	77
65) tert-Butylbenzene	9.25	119	73922	10.323	ppb	91
66) 1,2,4-Trimethylbenzene	9.30	105	81711	11.242	ppb	94
67) sec-Butylbenzene	9.46	105	107721	12.219	ppb	93
68) p-Isopropyltoluene	9.61	119	91168	10.324	ppb	95
69) 1,3-Dichlorobenzene	9.56	146	53885	9.920	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	54260	10.130	ppb	96
71) 1,2-Dichlorobenzene	10.01	146	51935	9.925	ppb	96
72) 1,2-Dibromo-3-chloropr...	10.77	75	4351	13.056	ppb	# 71
73) 1,2,4-Trichlorobenzene	11.59	180	35265	9.610	ppb	98
74) Hexachlorobutadiene	11.77	225	19285	8.918	ppb	96
75) Naphthalene	11.83	128	75133	10.533	ppb	100
76) 1,2,3-Trichlorobenzene	12.08	180	30048	10.347	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	84	0.01
2 TMP Ethanol	0.000	0.000#	0.0	55	0.00
3 S Dibromofluoromethane	0.319	0.280	12.2	71	0.00
4 TMP Dichlorodifluoromethane	0.582	0.645	-10.8	90	0.01
5 TMP Chloromethane	0.386	0.497	-28.8#	105	0.01
6 TMP Vinyl chloride	0.373	0.476	-27.6#	93	0.01
7 TMP Bromomethane	0.385	0.431	-11.9	84	0.01
8 TMP Chloroethane	0.200	0.198	1.0	76	0.00
9 TMP Trichlorofluoromethane	1.015	0.982	3.3	77	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.028	-27.3#	101	0.01
12 TMP 1,1-Dichloroethene	0.248	0.288	-16.1	90	0.01
13 TMP Hexane	0.236	0.343	-45.3#	116	0.00
14 TMP Methylene chloride	0.247	0.326	-32.0#	107	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.030	-36.4#	113	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.734	-23.2#	95	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.321	-17.2	91	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.691	-29.6#	95	0.01
19 TMP 1,1-Dichloroethane	0.341	0.483	-41.6#	106	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.309	-7.7	86	0.01
21 TMP 2,2-Dichloropropane	0.297	0.308	-3.7	97	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.340	-14.9	88	0.00
23 TMP Chloroform	0.441	0.487	-10.4	89	0.00
24 TMP 2-Butanone (MEK)	0.102	0.136	-33.3#	104	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.675	-22.5#	96	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.344	-3.0	86	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.473	-1.1	78	0.00
28 TMP 1,1-Dichloropropene	0.320	0.375	-17.2	96	0.00
29 TMP Carbon tetrachloride	0.497	0.414	16.7	69	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.058	3.3	79	0.00
31 TMP Benzene	0.849	1.133	-33.5#	107	0.00
32 TMP Trichloroethene	0.304	0.333	-9.5	83	0.00
33 TMP 1,2-Dichloropropane	0.189	0.241	-27.5#	108	0.00
34 TMP Bromodichloromethane	0.316	0.350	-10.8	89	0.00
35 S Toluene-d8	0.899	0.940	-4.6	84	0.00
36 TMP Dibromomethane	0.173	0.192	-11.0	88	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.043	-7.5	89	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.393	-19.5	99	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	67	0.00
40 TMP Toluene	0.719	0.957	-33.1#	92	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.480	-34.8#	94	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.304	-49.0#	103	0.00
43 TMP 2-Hexanone	0.142	0.222	-56.3#	107	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.489	-44.7#	97	0.00
45 TMP Tetrachloroethene	0.443	0.395	10.8	62	0.00
46 TMP Dibromochloromethane	0.425	0.395	7.1	63	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.387	-15.5	79	0.00
48 TMP Chlorobenzene	0.943	0.976	-3.5	70	0.00
49 TMP Ethylbenzene	1.560	1.714	-9.9	89	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.370	10.4	61	0.00
51 TMP m,p-Xylene	0.718	0.646	10.0	76	0.00
52 TMP o-Xylene	0.611	0.613	-0.3	74	0.00
53 TMP Styrene	0.848	0.923	-8.8	74	0.00
54 TMP Isopropylbenzene	1.353	1.472	-8.8	74	0.00
55 TMP Bromoform	0.302	0.262	13.2	59	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	56	0.00
57 S 4-Bromofluorobenzene	0.606	0.771	-27.2#	71	0.00
58 TMP n-Propylbenzene	2.257	3.207	-42.1#	81	0.00
59 TMP Bromobenzene	0.821	0.818	0.4	57	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	2.203	-20.0	70	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.765	-76.7#	103	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.552	-63.8#	92	0.00
63 TMP 2-Chlorotoluene	1.282	1.813	-41.4#	80	0.00
64 TMP 4-Chlorotoluene	1.552	2.160	-39.2#	79	0.00
65 TMP tert-Butylbenzene	1.946	2.009	-3.2	59	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.221	-12.5	66	0.00
67 TMP sec-Butylbenzene	2.396	2.927	-22.2#	70	0.00
68 TMP p-Isopropyltoluene	2.400	2.478	-3.3	60	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.464	0.8	57	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.475	-1.3	58	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.411	0.8	58	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.118	-29.7#	79	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.958	3.9	55	0.00
74 TMP Hexachlorobutadiene	0.588	0.524	10.9	53	0.00
75 TMP Naphthalene	1.938	2.042	-5.4	62	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.817	-3.5	61	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121903.D  
 Acq On : 19 Dec 2022 06:21 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 19 08:03:43 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	45959	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35779	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19468	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	12848	10.595	ppb	0.00	
Spiked Amount	10.000		Range 50 - 150	Recovery =	106.00%		
30) 1,2-Dichloroethane-d4	4.36	102	2916	10.517	ppb	0.00	
Spiked Amount	10.000		Range 79 - 128	Recovery =	105.20%		
35) Toluene-d8	5.98	98	42180	9.559	ppb	0.00	
Spiked Amount	10.000		Range 84 - 121	Recovery =	95.60%		
57) 4-Bromofluorobenzene	8.38	95	16329	9.935	ppb	0.00	
Spiked Amount	10.000		Range 84 - 116	Recovery =	99.30%		
<b>Target Compounds</b>							
							Qvalue
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	1.09	85	36435	11.514	ppb	99	
5) Chloromethane	1.23	50	41275	10.173	ppb	96	
6] Vinyl chloride	1.31	62	35184	10.462	ppb	93	
7) Bromomethane	1.55	94	22099	13.055	ppb	64	
8] Chloroethane	1.61	64	16701	10.801	ppb	97	
9) Trichlorofluoromethane	1.80	101	40399	10.105	ppb	96	
10) 2-Propanol	0.00		0	N.D.			
11) Acetone	2.27	58	10286	60.117	ppb	92	
12] 1,1-Dichloroethene	2.20	96	12133	10.983	ppb	99	
13) Hexane	3.05	57	18156	9.108	ppb	99	
14) Methylene chloride	2.61	84	13714	11.092	ppb	94	
15) t-Butyl alcohol (TBA)	2.74	59	11344	53.448	ppb	100	
16] Methyl t-butyl ether (...)	2.85	73	35477	10.529	ppb	100	
17] trans-1,2-Dichloroethene	2.84	96	12996	10.387	ppb	84	
18) Diisopropyl ether (DIPE)	3.25	45	44943	10.492	ppb	98	
19] 1,1-Dichloroethane	3.19	63	24835	10.716	ppb	99	
20) Ethyl t-butyl ether (E...)	3.55	87	14799	10.878	ppb	95	
21) 2,2-Dichloropropane	3.67	77	15210	10.474	ppb	98	
22] cis-1,2-Dichloroethene	3.67	96	14013	10.647	ppb	98	
23) Chloroform	3.95	83	22362	10.201	ppb	100	
24) 2-Butanone (MEK)	3.71	43	46273	55.053	ppb	99	
25) t-Amyl methyl ether (T...)	4.50	73	32508	10.199	ppb	98	
26] 1,2-Dichloroethane (EDC)	4.42	62	19368	10.196	ppb	100	
27] 1,1,1-Trichloroethane	4.08	97	21190	10.475	ppb	99	
28) 1,1-Dichloropropene	4.22	75	17158	10.307	ppb	98	
29) Carbon tetrachloride	4.22	117	18684	11.074	ppb	94	
31] Benzene	4.39	78	48459	10.555	ppb	100	
32] Trichloroethene	4.93	95	14492	9.992	ppb	100	
33] 1,2-Dichloropropane	5.13	63	13645	10.021	ppb	99	
34) Bromodichloromethane	5.37	83	16519	10.056	ppb	90	
36) Dibromomethane	5.23	93	8565	11.034	ppb	92	



Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121903.D  
 Acq On : 19 Dec 2022 06:21 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

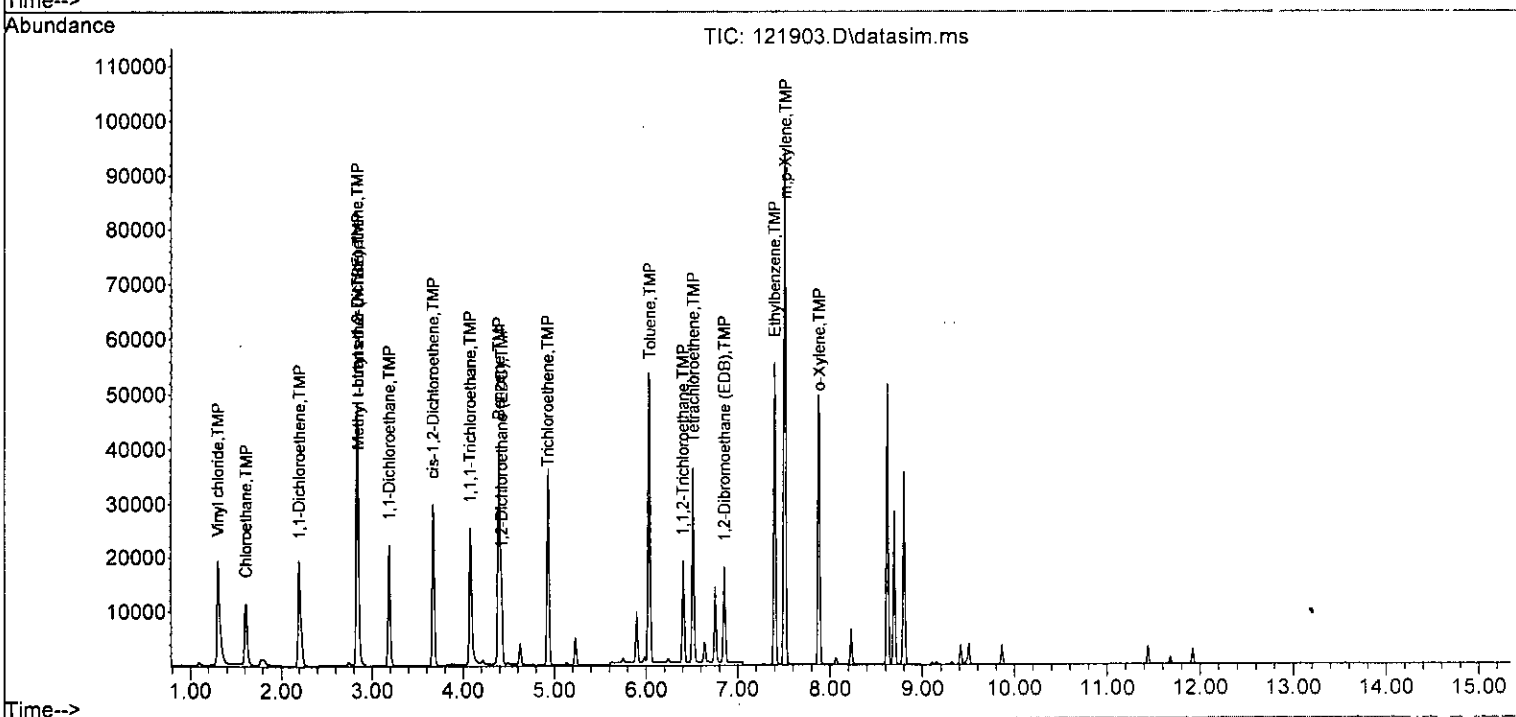
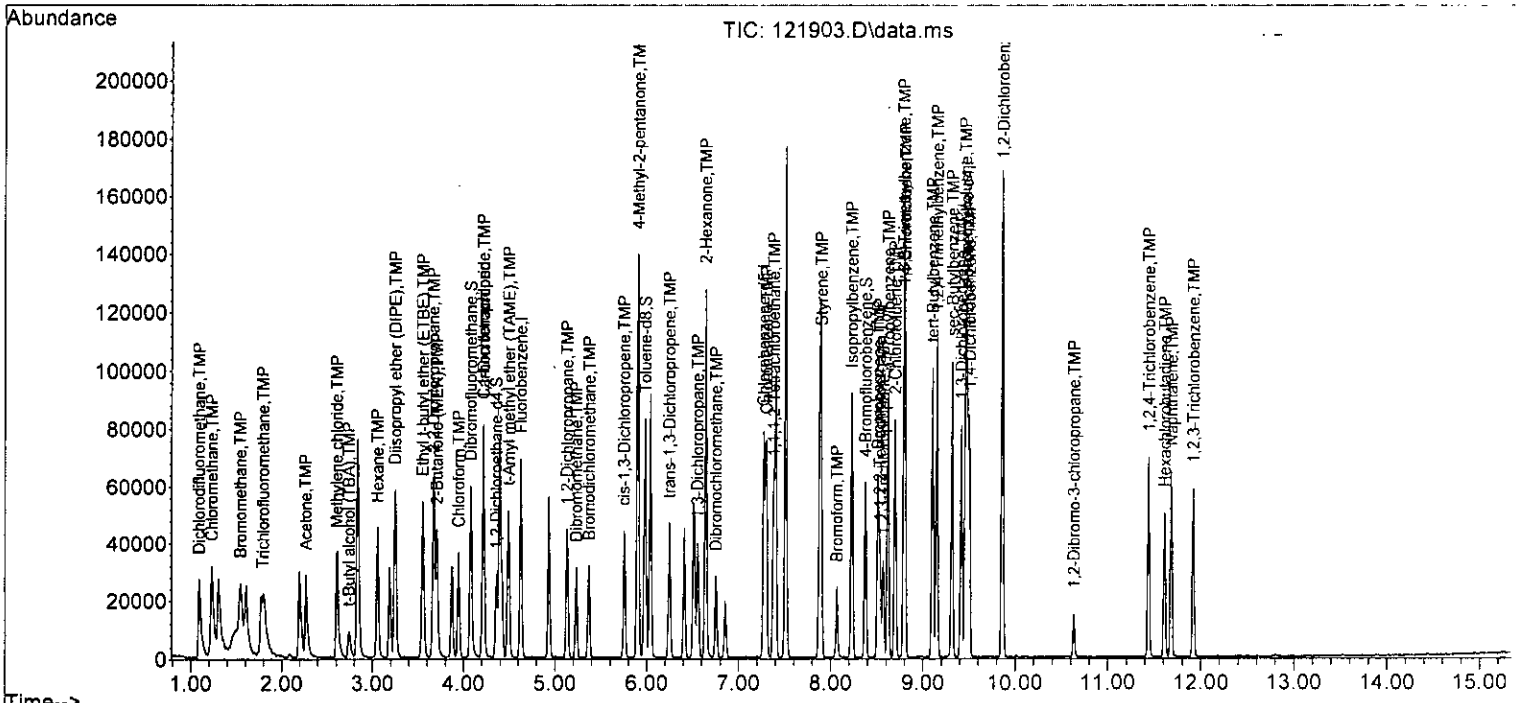
Quant Time: Dec 19 08:03:43 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	12756	53.187	ppb	94
38) cis-1,3-Dichloropropene	5.75	75	19438	9.869	ppb	97
40] Toluene	6.04	92	31068	10.125	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	18485	10.683	ppb	98
42] 1,1,2-Trichloroethane	6.40	83	9652	10.230	ppb	100
43) 2-Hexanone	6.64	43	67869	56.557	ppb	95
44) 1,3-Dichloropropane	6.55	76	17593	10.468	ppb	100
45] Tetrachloroethene	6.51	164	12134	9.911	ppb	99
46) Dibromochloromethane	6.75	129	13629	10.769	ppb	98
47] 1,2-Dibromoethane (EDB)	6.85	107	11970	10.221	ppb	100
48) Chlorobenzene	7.30	112	34658	10.470	ppb	100
49] Ethylbenzene	7.40	91	58593	10.163	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	12614	10.590	ppb	96
51] m,p-Xylene	7.52	106	44087	20.289	ppb	99
52] o-Xylene	7.88	106	22242	10.449	ppb	100
53) Styrene	7.90	104	35150	10.098	ppb	95
54) Isopropylbenzene	8.23	105	53868	9.627	ppb	100
55) Bromoform	8.07	173	9592	10.629	ppb	88
58) n-Propylbenzene	8.63	91	63398	9.925	ppb	94
59) Bromobenzene	8.51	156	15332	10.221	ppb	97
60) 1,3,5-Trimethylbenzene	8.79	105	48235	10.143	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	14546	10.710	ppb	99
62) 1,2,3-Trichloropropane	8.57	75	11210	9.829	ppb	95
63) 2-Chlorotoluene	8.70	91	38425	10.171	ppb	100
64) 4-Chlorotoluene	8.81	91	44320	9.981	ppb	97
65) tert-Butylbenzene	9.10	119	42310	10.152	ppb	98
66) 1,2,4-Trimethylbenzene	9.15	105	49185	10.203	ppb	98
67) sec-Butylbenzene	9.32	105	61212	10.133	ppb	98
68) p-Isopropyltoluene	9.46	119	53106	10.209	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	28729	10.290	ppb	97
70) 1,4-Dichlorobenzene	9.50	146	27353	9.618	ppb	96
71) 1,2-Dichlorobenzene	9.86	146	27080	10.081	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.63	75	3124	10.357	ppb	89
73) 1,2,4-Trichlorobenzene	11.44	180	19055	9.990	ppb	99
74) Hexachlorobutadiene	11.61	225	10292	9.762	ppb	97
75) Naphthalene	11.68	128	44250	8.752	ppb	97
76) 1,2,3-Trichlorobenzene	11.92	180	16709	9.495	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121903.D  
 Acq On : 19 Dec 2022 06:21 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 19 08:03:43 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121903.D  
 Acq On : 19 Dec 2022 06:21 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 19 08:03:43 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	97	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.595	-6.0	102	0.00
4 TMP Dichlorodifluoromethane	10.000	11.514	-15.1	115	0.02
5 TMP Chloromethane	10.000	10.173	-1.7	101	0.02
6 TMP Vinyl chloride	10.000	10.462	-4.6	100	0.02
7 TMP Bromomethane	10.000	13.055	-30.6#	141	0.02
8 TMP Chloroethane	10.000	10.801	-8.0	107	0.02
9 TMP Trichlorofluoromethane	10.000	10.105	-1.1	101	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.41#
11 TMP Acetone	50.000	60.117	-20.2#	126	0.00
12 TMP 1,1-Dichloroethene	10.000	10.983	-9.8	106	0.02
13 TMP Hexane	10.000	9.108	8.9	88	0.00
14 TMP Methylene chloride	10.000	11.092	-10.9	101	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	53.448	-6.9	105	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.529	-5.3	99	0.02
17 TMP trans-1,2-Dichloroethene	10.000	10.387	-3.9	100	0.02
18 TMP Diisopropyl ether (DIPE)	10.000	10.492	-4.9	102	0.00
19 TMP 1,1-Dichloroethane	10.000	10.716	-7.2	102	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.878	-8.8	102	0.00
21 TMP 2,2-Dichloropropane	10.000	10.474	-4.7	102	0.00
22 TMP cis-1,2-Dichloroethene	10.000	10.647	-6.5	102	0.00
23 TMP Chloroform	10.000	10.201	-2.0	104	0.00
24 TMP 2-Butanone (MEK)	50.000	55.053	-10.1	110	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	10.199	-2.0	96	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	10.196	-2.0	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.475	-4.7	101	0.00
28 TMP 1,1-Dichloropropene	10.000	10.307	-3.1	100	0.00
29 TMP Carbon tetrachloride	10.000	11.074	-10.7	106	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.517	-5.2	97	0.00
31 TMP Benzene	10.000	10.555	-5.5	102	0.00
32 TMP Trichloroethene	10.000	9.992	0.1	97	0.00
33 TMP 1,2-Dichloropropane	10.000	10.021	-0.2	98	0.00
34 TMP Bromodichloromethane	10.000	10.056	-0.6	99	0.00
35 S Toluene-d8	10.000	9.559	4.4	95	0.00
36 TMP Dibromomethane	10.000	11.034	-10.3	104	0.00
37 TMP 4-Methyl-2-pentanone	50.000	53.187	-6.4	106	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.869	1.3	99	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	98	0.00
40 TMP Toluene	10.000	10.125	-1.3	100	0.01
41 TMP trans-1,3-Dichloropropene	10.000	10.683	-6.8	105	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.230	-2.3	99	0.00
43 TMP 2-Hexanone	50.000	56.557	-13.1	108	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121903.D  
 Acq On : 19 Dec 2022 06:21 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 19 08:03:43 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.468	-4.7	97	0.00
45 TMP Tetrachloroethene	10.000	9.911	0.9	99	0.00
46 TMP Dibromochloromethane	10.000	10.769	-7.7	106	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.221	-2.2	100	0.00
48 TMP Chlorobenzene	10.000	10.470	-4.7	101	0.00
49 TMP Ethylbenzene	10.000	10.163	-1.6	98	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.590	-5.9	99	0.00
51 TMP m,p-Xylene	20.000	20.289	-1.4	98	0.00
52 TMP o-Xylene	10.000	10.449	-4.5	100	0.00
53 TMP Styrene	10.000	10.098	-1.0	96	0.00
54 TMP Isopropylbenzene	10.000	9.627	3.7	92	0.00
55 TMP Bromoform	10.000	10.629	-6.3	103	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	96	0.00
57 S 4-Bromofluorobenzene	10.000	9.935	0.6	94	0.00
58 TMP n-Propylbenzene	10.000	9.925	0.7	94	0.00
59 TMP Bromobenzene	10.000	10.221	-2.2	98	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.143	-1.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	10.710	-7.1	101	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.829	1.7	96	0.00
63 TMP 2-Chlorotoluene	10.000	10.171	-1.7	98	0.00
64 TMP 4-Chlorotoluene	10.000	9.981	0.2	98	0.00
65 TMP tert-Butylbenzene	10.000	10.152	-1.5	98	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.203	-2.0	98	0.00
67 TMP sec-Butylbenzene	10.000	10.133	-1.3	99	0.00
68 TMP p-Isopropyltoluene	10.000	10.209	-2.1	97	0.00
69 TMP 1,3-Dichlorobenzene	10.000	10.290	-2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.618	3.8	93	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.081	-0.8	96	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	10.357	-3.6	103	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.990	0.1	97	0.00
74 TMP Hexachlorobutadiene	10.000	9.762	2.4	94	0.00
75 TMP Naphthalene	10.000	8.752	12.5	89	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.495	5.1	90	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121903.D  
 Acq On : 19 Dec 2022 06:21 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 19 08:03:43 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	97	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.280	-6.1	102	0.00
4 TMP Dichlorodifluoromethane	0.688	0.793	-15.3	115	0.02
5 TMP Chloromethane	0.883	0.898	-1.7	101	0.02
6 TMP Vinyl chloride	0.732	0.766	-4.6	100	0.02
7 TMP Bromomethane	0.368	0.481	-30.7#	141	0.02
8 TMP Chloroethane	0.336	0.363	-8.0	107	0.02
9 TMP Trichlorofluoromethane	0.870	0.879	-1.0	101	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.41#
11 TMP Acetone	0.037	0.045	-21.6#	126	0.00
12 TMP 1,1-Dichloroethene	0.240	0.264	-10.0	106	0.02
13 TMP Hexane	0.434	0.395	9.0	88	0.00
14 TMP Methylene chloride	0.269	0.298	-10.8	101	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.049	-6.5	105	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.772	-5.3	99	0.02
17 TMP trans-1,2-Dichloroethene	0.272	0.283	-4.0	100	0.02
18 TMP Diisopropyl ether (DIPE)	0.932	0.978	-4.9	102	0.00
19 TMP 1,1-Dichloroethane	0.504	0.540	-7.1	102	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.322	-8.8	102	0.00
21 TMP 2,2-Dichloropropane	0.316	0.331	-4.7	102	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.305	-6.6	102	0.00
23 TMP Chloroform	0.477	0.487	-2.1	104	0.00
24 TMP 2-Butanone (MEK)	0.183	0.201	-9.8	110	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.707	-1.9	96	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.421	-1.9	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.461	-4.8	101	0.00
28 TMP 1,1-Dichloropropene	0.362	0.373	-3.0	100	0.00
29 TMP Carbon tetrachloride	0.367	0.407	-10.9	106	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.063	-5.0	97	0.00
31 TMP Benzene	0.999	1.054	-5.5	102	0.00
32 TMP Trichloroethene	0.316	0.315	0.3	97	0.00
33 TMP 1,2-Dichloropropane	0.296	0.297	-0.3	98	0.00
34 TMP Bromodichloromethane	0.357	0.359	-0.6	99	0.00
35 S Toluene-d8	0.960	0.918	4.4	95	0.00
36 TMP Dibromomethane	0.169	0.186	-10.1	104	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.056	-7.7	106	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.423	1.4	99	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
40 TMP Toluene	0.858	0.868	-1.2	100	0.01
41 TMP trans-1,3-Dichloropropene	0.484	0.517	-6.8	105	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.270	-2.3	99	0.00
43 TMP 2-Hexanone	0.335	0.379	-13.1	108	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121903.D  
 Acq On : 19 Dec 2022 06:21 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 19 08:03:43 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.492	-4.7	97	0.00
45 TMP Tetrachloroethene	0.342	0.339	0.9	99	0.00
46 TMP Dibromochloromethane	0.354	0.381	-7.6	106	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.335	-2.4	100	0.00
48 TMP Chlorobenzene	0.925	0.969	-4.8	101	0.00
49 TMP Ethylbenzene	1.611	1.638	-1.7	98	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.353	-6.0	99	0.00
51 TMP m,p-Xylene	0.607	0.616	-1.5	98	0.00
52 TMP o-Xylene	0.595	0.622	-4.5	100	0.00
53 TMP Styrene	0.973	0.982	-0.9	96	0.00
54 TMP Isopropylbenzene	1.564	1.506	3.7	92	0.00
55 TMP Bromoform	0.252	0.268	-6.3	103	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
57 S 4-Bromofluorobenzene	0.844	0.839	0.6	94	0.00
58 TMP n-Propylbenzene	3.281	3.257	0.7	94	0.00
59 TMP Bromobenzene	0.770	0.788	-2.3	98	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.478	-1.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.747	-7.0	101	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.576	1.7	96	0.00
63 TMP 2-Chlorotoluene	1.941	1.974	-1.7	98	0.00
64 TMP 4-Chlorotoluene	2.281	2.277	0.2	98	0.00
65 TMP tert-Butylbenzene	2.141	2.173	-1.5	98	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.526	-2.0	98	0.00
67 TMP sec-Butylbenzene	3.103	3.144	-1.3	99	0.00
68 TMP p-Isopropyltoluene	2.672	2.728	-2.1	97	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.476	-2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.405	3.8	93	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.391	-0.8	96	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.160	-3.2	103	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.979	0.1	97	0.00
74 TMP Hexachlorobutadiene	0.542	0.529	2.4	94	0.00
75 TMP Naphthalene	2.597	2.273	12.5	89	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.858	5.1	90	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

**EPA 8260D**  
**Quality Assurance Data**

Spike Recovery and RPD Summary Report - WATER

Method : Y:\Methods\Inst11\VB120222ms11.M (RTE Integrator)  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration

Non-Spiked Sample: 120731.D

Spike Sample	Spike Duplicate Sample
File ID: 120726.D	120727.D
Sample : 02-2856 lcs rr	02-2856 lcsd rr
Acq Time: 07 Dec 2022 05:23 pm	07 Dec 2022 05:46 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Ethanol	0.0	0	0	0	0#	0#	99#	20	48-163
Dichlorodifluorometh	0.0	10	10	10	98	99	1	20	46-206
Chloromethane	0.2	10	10	10	97	97	0	20	70-142
Vinyl chloride	0.0	10	10	10	99	102	3	20	70-130
Bromomethane	0.0	10	10	9	96	88	9	20	50-197
Chloroethane	0.0	10	11	12	112	115	3	20	70-130
Trichlorofluorometha	0.0	10	10	10	100	101	0	20	70-130
2-Propanol	0.0	0	0	0	0#	0#	99#	20	70-130
Acetone	2.2	50	44	48	84	92	9	20	10-140
1,1-Dichloroethene	0.0	10	10	10	99	102	3	20	70-130
Hexane	0.0	10	10	10	103	103	1	20	54-136
Methylene chloride	0.3	10	10	10	94	98	4	20	43-134
t-Butyl alcohol (TBA	0.0	50	48	53	96	106	10	20	70-130
Methyl t-butyl ether	0.0	10	10	11	104	107	2	20	70-130
trans-1,2-Dichloroet	0.0	10	10	11	105	108	3	20	70-130
Diisopropyl ether (D	0.0	10	10	10	98	98	1	20	70-130
1,1-Dichloroethane	0.0	10	10	11	103	107	4	20	70-130
Ethyl t-butyl ether	0.0	10	10	10	101	104	3	20	70-130
2,2-Dichloropropane	0.0	10	10	10	102	102	0	20	70-130
cis-1,2-Dichloroethe	0.0	10	10	10	101	104	3	20	70-130
Chloroform	0.0	10	10	10	100	101	1	20	70-130
2-Butanone (MEK)	0.0	50	46	48	91	96	5	20	17-154
t-Amyl methyl ether	0.0	10	10	10	98	100	2	20	70-130
1,2-Dichloroethane (	0.0	10	10	11	103	105	3	20	70-130
1,1,1-Trichloroethan	0.0	10	10	10	99	102	2	20	70-130
1,1-Dichloropropene	0.0	10	10	10	100	103	2	20	70-130
Carbon tetrachloride	0.0	10	10	10	99	103	4	20	70-130
Benzene	0.0	10	10	10	100	103	3	20	70-130
Trichloroethene	0.0	10	10	10	98	99	1	20	70-130
1,2-Dichloropropane	0.0	10	9	10	92	97	4	20	70-130
Bromodichloromethane	0.0	10	10	10	95	99	3	20	70-130
Dibromomethane	0.0	10	10	10	96	100	4	20	70-130
4-Methyl-2-pentanone	0.0	50	47	50	93	99	6	20	68-130
cis-1,3-Dichloroprop	0.0	10	10	10	98	99	1	20	69-131
Toluene	0.0	10	10	10	104	102	2	20	70-130
trans-1,3-Dichloropr	0.0	10	10	10	101	99	2	20	70-130
1,1,2-Trichloroethan	0.0	10	10	10	102	100	2	20	70-130



2-Hexanone	0.1	50	52	52	105	103	2	20	45-138
1,3-Dichloropropane	0.0	10	10	10	104	102	2	20	70-130
Tetrachloroethene	0.0	10	10	10	104	102	3	20	70-130
Dibromochloromethane	0.0	10	11	10	106	98	8	20	60-148
1,2-Dibromoethane (E)	0.0	10	11	10	105	104	1	20	70-130
Chlorobenzene	0.0	10	10	10	102	99	3	20	70-130
Ethylbenzene	0.0	10	11	11	108	106	2	20	70-130
1,1,1,2-Tetrachloroe	0.0	10	10	10	99	100	1	20	70-130
m,p-Xylene	0.0	20	21	21	105	103	2	20	70-130
o-Xylene	0.0	10	10	10	105	102	2	20	70-130
Styrene	0.0	10	10	10	102	97	5	20	70-130
Isopropylbenzene	0.0	10	10	10	103	100	3	20	70-130
<b>Bromofom</b>	<b>0.0</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>101</b>	<b>98</b>	<b>3</b>	<b>20</b>	<b>69-138</b>
n-Propylbenzene	0.0	10	10	10	96	100	4	20	70-130
Bromobenzene	0.0	10	10	10	96	100	4	20	70-130
1,3,5-Trimethylbenze	0.0	10	9	10	95	97	2	20	70-130
1,1,2,2-Tetrachloroe	0.0	10	11	11	106	109	2	20	70-130
1,2,3-Trichloropropa	0.0	10	10	10	96	101	5	20	70-130
2-Chlorotoluene	0.0	10	9	10	94	97	3	20	70-130
4-Chlorotoluene	0.0	10	10	10	95	96	1	20	70-130
tert-Butylbenzene	0.0	10	10	10	96	100	4	20	70-130
1,2,4-Trimethylbenze	0.0	10	9	10	94	98	5	20	70-130
sec-Butylbenzene	0.0	10	10	10	95	100	5	20	70-130
p-Isopropyltoluene	0.0	10	10	10	98	101	3	20	70-130
1,3-Dichlorobenzene	0.0	10	10	10	96	98	3	20	70-130
1,4-Dichlorobenzene	0.0	10	9	10	92	99	7	20	70-130
1,2-Dichlorobenzene	0.0	10	10	10	98	103	4	20	70-130
1,2-Dibromo-3-chloro	0.0	10	10	10	99	100	2	20	70-130
1,2,4-Trichlorobenze	0.0	10	10	10	98	103	5	20	70-130
Hexachlorobutadiene	0.0	10	10	10	96	104	7	20	70-130
Naphthalene	0.1	10	9	10	94	100	6	20	70-130
1,2,3-Trichlorobenze	0.0	10	10	10	98	103	5	20	70-130

# - Fails Limit Check

Spike Recovery and RPD Summary Report - WATER

Method : Y:\Methods\Inst11\VB120222ms11.M (RTE Integrator)  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration

Non-Spiked Sample: 120722.D

File ID	Spike Sample	Spike Duplicate Sample
120728.D	120728.D	120728.D
Sample :	212059-02 ms	212059-02 ms
Acq Time:	07 Dec 2022 06:10 pm	07 Dec 2022 06:10 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC RPD	Limits % Rec
Ethanol	0.0	0	0	0	0#	0#	99#	20	48-163
Dichlorodifluorometh	0.0	10	10	10	100	100	0	20	46-206
Chloromethane	0.0	10	10	10	98	98	0	20	70-142
Vinyl chloride	0.0	10	10	10	100	100	0	20	70-130
Bromomethane	0.0	10	10	10	98	98	0	20	50-197
Chloroethane	0.0	10	11	11	111	111	0	20	70-130
Trichlorofluorometha	0.0	10	10	10	98	98	0	20	70-130
2-Propanol	0.0	0	0	0	0#	0#	99#	20	70-130
Acetone	3.8	50	49	49	90	90	0	20	10-140
1,1-Dichloroethene	0.0	10	10	10	99	99	0	20	70-130
Hexane	0.0	10	10	10	102	102	0	20	54-136
Methylene chloride	1.2	10	11	11	102	102	0	20	43-134
t-Butyl alcohol (TBA	0.0	50	50	50	99	99	0	20	70-130
Methyl t-butyl ether	0.0	10	10	10	103	103	0	20	70-130
trans-1,2-Dichloroet	0.2	10	11	11	105	105	0	20	70-130
Diisopropyl ether (D	0.0	10	10	10	97	97	0	20	70-130
1,1-Dichloroethane	0.0	10	10	10	103	103	0	20	70-130
Ethyl t-butyl ether	0.0	10	10	10	97	97	0	20	70-130
2,2-Dichloropropane	0.0	10	10	10	95	95	0	20	70-130
cis-1,2-Dichloroethe	1.2	10	11	11	101	101	0	20	70-130
Chloroform	0.0	10	10	10	98	98	0	20	70-130
2-Butanone (MEK)	0.0	50	48	48	95	95	0	20	17-154
t-Amyl methyl ether	0.0	10	10	10	97	97	0	20	70-130
1,2-Dichloroethane (	0.0	10	10	10	102	102	0	20	70-130
1,1,1-Trichloroethan	0.0	10	10	10	99	99	0	20	70-130
1,1-Dichloropropene	0.0	10	10	10	98	98	0	20	70-130
Carbon tetrachloride	0.0	10	10	10	97	97	0	20	70-130
Benzene	0.0	10	10	10	100	100	0	20	70-130
Trichloroethene	0.3	10	10	10	96	96	0	20	70-130
1,2-Dichloropropane	0.0	10	9	9	91	91	0	20	70-130
Bromodichloromethane	0.0	10	10	10	96	96	0	20	70-130
Dibromomethane	0.0	10	9	9	95	95	0	20	70-130
4-Methyl-2-pentanone	0.0	50	52	52	105	105	0	20	68-130
cis-1,3-Dichloroprop	0.0	10	10	10	95	95	0	20	69-131
Toluene	0.0	10	10	10	96	96	0	20	70-130
trans-1,3-Dichloropr	0.0	10	9	9	90	90	0	20	70-130
1,1,2-Trichloroethan	0.0	10	9	9	94	94	0	20	70-130

2-Hexanone	0.0	50	50	50	99	99	0	20	45-138
1,3-Dichloropropane	0.0	10	10	10	99	99	0	20	70-130
Tetrachloroethene	0.4	10	10	10	95	95	0	20	70-130
Dibromochloromethane	0.0	10	10	10	96	96	0	20	60-148
1,2-Dibromoethane (E)	0.0	10	10	10	98	98	0	20	70-130
Chlorobenzene	0.0	10	9	9	93	93	0	20	70-130
Ethylbenzene	0.0	10	10	10	100	100	0	20	70-130
1,1,1,2-Tetrachloroe	0.0	10	9	9	92	92	0	20	70-130
m,p-Xylene	0.0	20	19	19	96	96	0	20	70-130
o-Xylene	0.0	10	10	10	96	96	0	20	70-130
Styrene	0.0	10	9	9	93	93	0	20	70-130
Isopropylbenzene	0.0	10	9	9	94	94	0	20	70-130
<del>Bromoform</del>	<del>0.0</del>	<del>10</del>	<del>9</del>	<del>9</del>	<del>94</del>	<del>94</del>	<del>0</del>	<del>20</del>	<del>60-138</del>
n-Propylbenzene	0.0	10	10	10	96	96	0	20	70-130
Bromobenzene	0.0	10	10	10	95	95	0	20	70-130
1,3,5-Trimethylbenze	0.0	10	10	10	96	96	0	20	70-130
1,1,2,2-Tetrachloroe	0.0	10	11	11	106	106	0	20	70-130
1,2,3-Trichloropropa	0.0	10	10	10	100	100	0	20	70-130
2-Chlorotoluene	0.0	10	10	10	95	95	0	20	70-130
4-Chlorotoluene	0.0	10	10	10	96	96	0	20	70-130
tert-Butylbenzene	0.0	10	10	10	96	96	0	20	70-130
1,2,4-Trimethylbenze	0.0	10	9	9	93	93	0	20	70-130
sec-Butylbenzene	0.0	10	9	9	93	93	0	20	70-130
p-Isopropyltoluene	0.0	10	9	9	95	95	0	20	70-130
1,3-Dichlorobenzene	0.0	10	10	10	96	96	0	20	70-130
1,4-Dichlorobenzene	0.0	10	9	9	94	94	0	20	70-130
1,2-Dichlorobenzene	0.0	10	10	10	100	100	0	20	70-130
1,2-Dibromo-3-chloro	0.0	10	10	10	99	99	0	20	70-130
1,2,4-Trichlorobenze	0.0	10	9	9	94	94	0	20	70-130
Hexachlorobutadiene	0.0	10	8	8	81	81	0	20	70-130
Naphthalene	0.0	10	9	9	94	94	0	20	70-130
1,2,3-Trichlorobenze	0.0	10	9	9	94	94	0	20	70-130

# - Fails Limit Check

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120726.D  
 Acq On : 07 Dec 2022 05:23 pm  
 Operator : LM  
 Sample : 02-2856 lcs rr  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:12 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	44205	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	34008	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19522	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11441	9.821	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.20%	
30) 1,2-Dichloroethane-d4	4.36	102	2768	10.504	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	105.00%	
35) Toluene-d8	5.98	98	42756	9.916	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	99.20%	
57) 4-Bromofluorobenzene	8.38	95	16042	9.510	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	95.10%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	30801	9.792	ppb	95	
5) Chloromethane	1.22	50	38197	9.963	ppb	100	
6] Vinyl chloride	1.29	62	32720	9.896	ppb	91	
7) Bromomethane	1.54	94	20273	9.621	ppb	65	
8] Chloroethane	1.60	64	16442	11.183	ppb	81	
9) Trichlorofluoromethane	1.77	101	39946	10.050	ppb	79	
10) 2-Propanol	0.00		0	N.D.			
11) Acetone	2.26	58	6118	44.356	ppb	89	
12] 1,1-Dichloroethene	2.19	96	10781	9.859	ppb	93	
13) Hexane	3.05	57	19452	10.252	ppb	97	
14) Methylene chloride	2.61	84	12110	9.714	ppb	# 79	
15) t-Butyl alcohol (TBA)	2.73	59	9854	48.180	ppb	96	
16] Methyl t-butyl ether (...)	2.84	73	34117	10.431	ppb	95	
17] trans-1,2-Dichloroethene	2.83	96	12369	10.470	ppb	97	
18) Diisopropyl ether (DIPE)	3.24	45	41161	9.775	ppb	99	
19] 1,1-Dichloroethane	3.18	63	22641	10.291	ppb	99	
20) Ethyl t-butyl ether (E...)	3.54	87	13711	10.093	ppb	96	
21) 2,2-Dichloropropane	3.67	77	13917	10.228	ppb	88	
22] cis-1,2-Dichloroethene	3.67	96	13028	10.084	ppb	99	
23) Chloroform	3.94	83	20979	9.959	ppb	99	
24) 2-Butanone (MEK)	3.70	43	33700	45.603	ppb	97	
25) t-Amyl methyl ether (T...)	4.49	73	31849	9.754	ppb	97	
26] 1,2-Dichloroethane (EDC)	4.41	62	17852	10.255	ppb	99	
27] 1,1,1-Trichloroethane	4.08	97	20377	9.946	ppb	99	
28) 1,1-Dichloropropene	4.22	75	16345	10.042	ppb	94	
29) Carbon tetrachloride	4.21	117	17314	9.890	ppb	99	
31] Benzene	4.39	78	45051	10.044	ppb	99	
32] Trichloroethene	4.93	95	13770	9.773	ppb	99	
33) 1,2-Dichloropropane	5.13	63	12861	9.241	ppb	100	
34) Bromodichloromethane	5.37	83	15829	9.543	ppb	95	
36) Dibromomethane	5.23	93	7706	9.613	ppb	77	

Data Path : Y:\Proc\_GC511\12-07-22\  
 Data File : 120726.D  
 Acq On : 07 Dec 2022 05:23 pm  
 Operator : LM  
 Sample : 02-2856 lcs rr  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

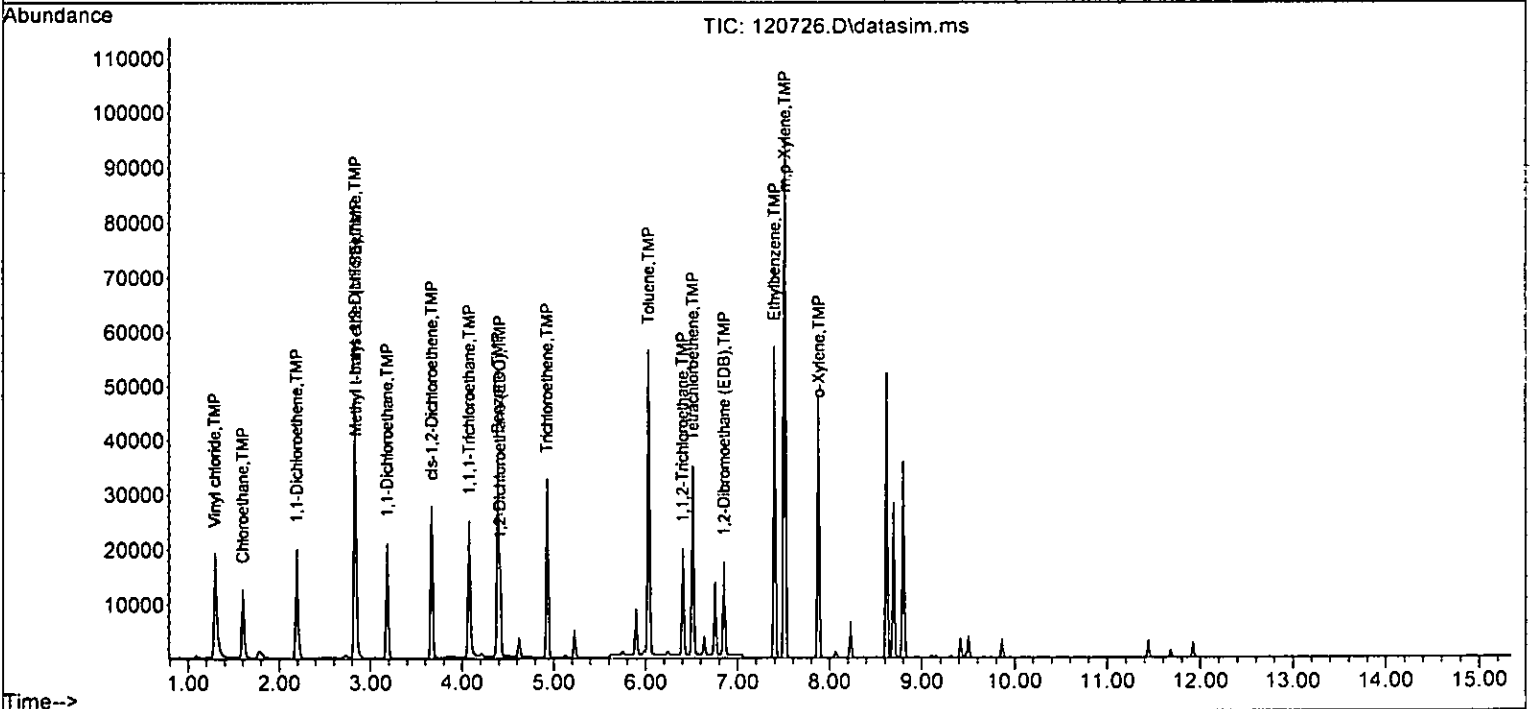
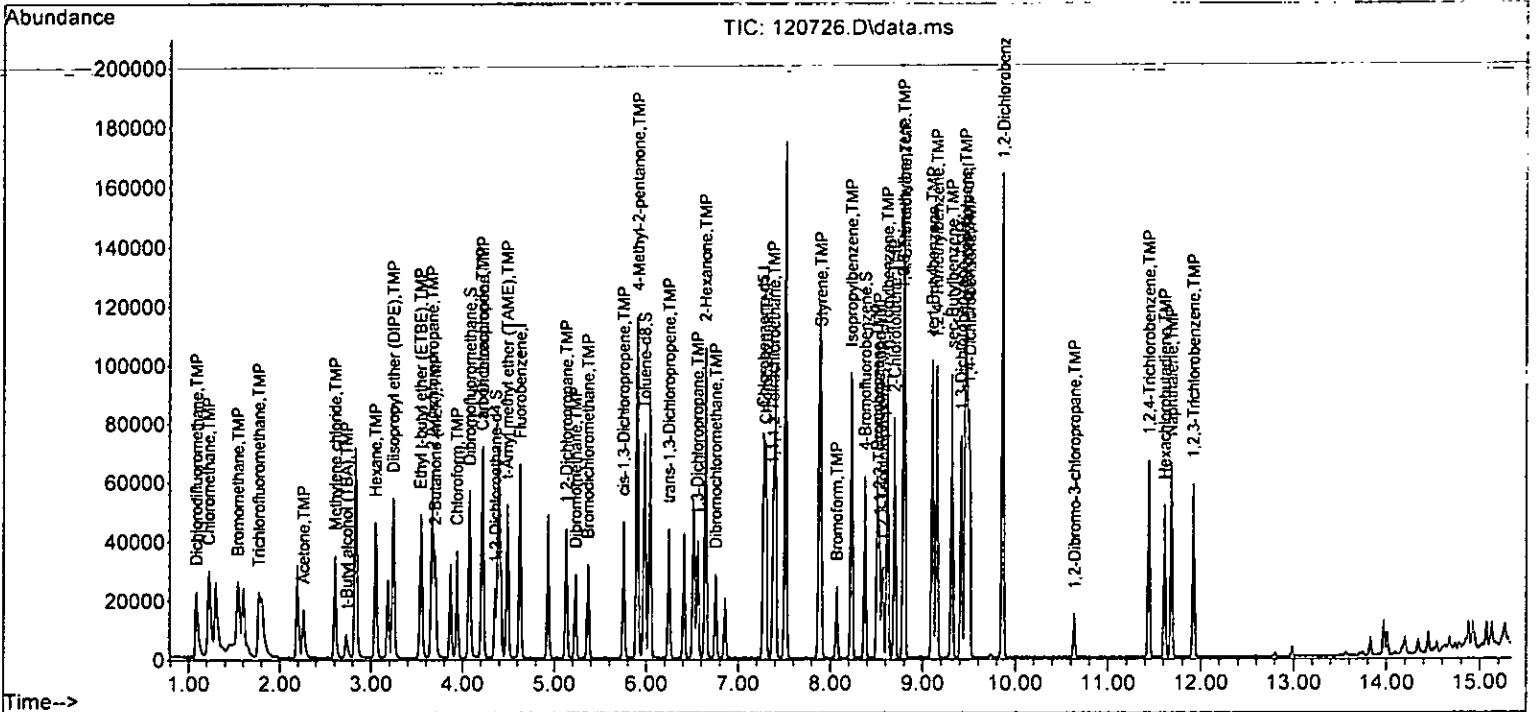
Quant Time: Dec 08 07:50:12 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11131	46.503	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	19278	9.843	ppb	92
40] Toluene	6.03	92	30502	10.392	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	17413	10.087	ppb	93
42] 1,1,2-Trichloroethane	6.40	83	9641	10.229	ppb	100
43) 2-Hexanone	6.64	43	55594	52.469	ppb	97
44) 1,3-Dichloropropane	6.55	76	17173	10.425	ppb	94
45] Tetrachloroethene	6.51	164	11727	10.426	ppb	99
46) Dibromochloromethane	6.75	129	13230	10.625	ppb	97
47] 1,2-Dibromoethane (ED8)	6.85	107	11577	10.542	ppb	100
48) Chlorobenzene	7.30	112	33316	10.235	ppb	99
49] Ethylbenzene	7.40	91	58889	10.816	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	12095	9.929	ppb #	79
51] m,p-Xylene	7.51	106	43724	20.966	ppb	99
52] o-Xylene	7.88	106	21404	10.456	ppb	98
53) Styrene	7.90	104	34799	10.190	ppb	95
54) Isopropylbenzene	8.23	105	56193	10.287	ppb	93
55) Bromoform	8.07	173	9287	10.149	ppb	95
58) n-Propylbenzene	8.62	91	63599	9.621	ppb	91
59) Bromobenzene	8.51	156	14818	9.614	ppb	87
60) 1,3,5-Trimethylbenzene	8.79	105	45987	9.492	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	15227	10.634	ppb	80
62) 1,2,3-Trichloropropane	8.57	75	11208	9.589	ppb	90
63) 2-Chlorotoluene	8.70	91	37931	9.458	ppb	100
64) 4-Chlorotoluene	8.81	91	43931	9.556	ppb	98
65) tert-Butylbenzene	9.10	119	41163	9.612	ppb	97
66) 1,2,4-Trimethylbenzene	9.15	105	47173	9.385	ppb	99
67) sec-Butylbenzene	9.31	105	58858	9.542	ppb	95
68) p-Isopropyltoluene	9.46	119	51652	9.776	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	27412	9.559	ppb	93
70) 1,4-Dichlorobenzene	9.50	146	26961	9.222	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	26133	9.838	ppb	94
72) 1,2-Dibromo-3-chloropr...	10.64	75	3047	9.869	ppb	88
73) 1,2,4-Trichlorobenzene	11.44	180	18769	9.826	ppb	95
74) Hexachlorobutadiene	11.61	225	9704	9.641	ppb	95
75) Naphthalene	11.68	128	44403	9.472	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	16966	9.815	ppb	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120726.D  
 Acq On : 07 Dec 2022 05:23 pm  
 Operator : LM  
 Sample : 02-2856 lcs rr  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:12 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120727.D  
 Acq On : 07 Dec 2022 05:46 pm  
 Operator : LM  
 Sample : 02-2856 lcsd rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:16 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	43113	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	34903	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19059	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	11703	10.300	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.00%		
30) 1,2-Dichloroethane-d4	4.36	102	2715	10.564	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	105.60%		
35) Toluene-d8	5.98	98	43531	10.351	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	103.50%		
57) 4-Bromofluorobenzene	8.38	95	16708	10.146	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	101.50%		
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.O.			Qvalue
4) Dichlorodifluoromethane	1.09	85	30319	9.883	ppb	85	
5) Chloromethane	1.23	50	37348	9.989	ppb	93	
6] Vinyl chloride	1.31	62	32870	10.194	ppb	96	
7) Bromomethane	1.55	94	18434	8.794	ppb	65	
8] Chloroethane	1.61	64	16505	11.513	ppb	83	
9) Trichlorofluoromethane	1.78	101	38974	10.054	ppb	62	
10) 2-Propanol	0.00		0	N.D.			
11) Acetone	2.27	58	6475	48.134	ppb	99	
12] 1,1-Dichloroethene	2.20	96	10872	10.194	ppb	90	
13) Hexane	3.05	57	19065	10.304	ppb	98	
14) Methylene chloride	2.61	84	12291	10.140	ppb	81	
15) t-Butyl alcohol (TBA)	2.74	59	10618	53.230	ppb	100	
16] Methyl t-butyl ether (...)	2.84	73	34034	10.670	ppb	100	
17] trans-1,2-Dichloroethene	2.84	96	12479	10.832	ppb	98	
18) Diisopropyl ether (DIPE)	3.25	45	40367	9.829	ppb	98	
19] 1,1-Dichloroethane	3.19	63	22916	10.680	ppb	99	
20) Ethyl t-butyl ether (E...)	3.55	87	13803	10.418	ppb	90	
21) 2,2-Dichloropropane	3.67	77	13581	10.234	ppb	95	
22] cis-1,2-Dichloroethene	3.67	96	13123	10.416	ppb	88	
23) Chloroform	3.95	83	20754	10.102	ppb	91	
24) 2-Butanone (MEK)	3.71	43	34588	48.075	ppb	97	
25) t-Amyl methyl ether (T...)	4.50	73	31740	9.967	ppb	99	
26] 1,2-Dichloroethane (EDC)	4.42	62	17883	10.534	ppb	97	
27] 1,1,1-Trichloroethane	4.08	97	20376	10.198	ppb	93	
28) 1,1-Dichloropropene	4.22	75	16336	10.291	ppb	93	
29) Carbon tetrachloride	4.22	117	17603	10.309	ppb	95	
31] Benzene	4.39	78	45215	10.337	ppb	95	
32] Trichloroethene	4.93	95	13583	9.884	ppb	92	
33) 1,2-Dichloropropane	5.13	63	13108	9.657	ppb	100	
34) Bromodichloromethane	5.37	83	15974	9.874	ppb	93	
36) Dibromomethane	5.23	93	7792	9.967	ppb	84	

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120727.D  
 Acq On : 07 Dec 2022 05:46 pm  
 Operator : LM  
 Sample : 02-2856 lcsd rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:16 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

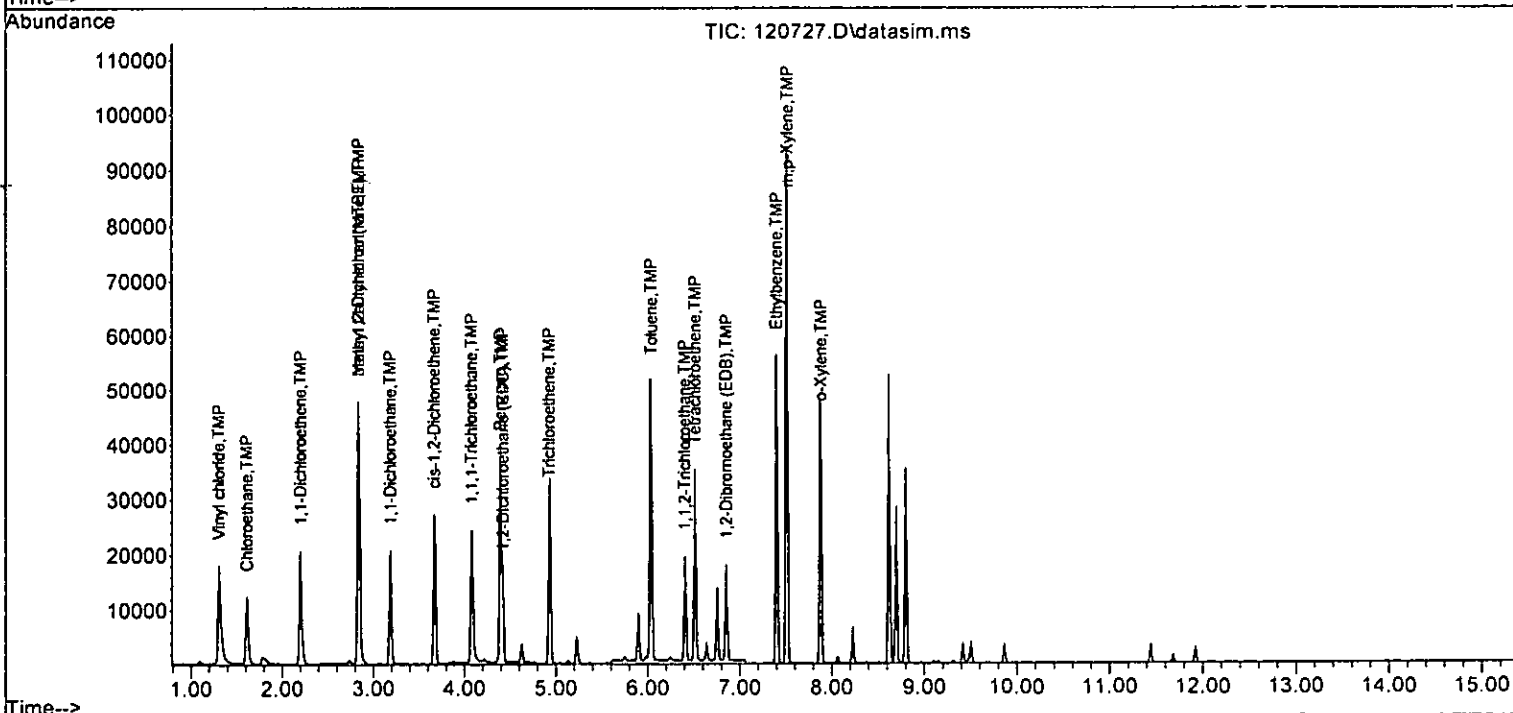
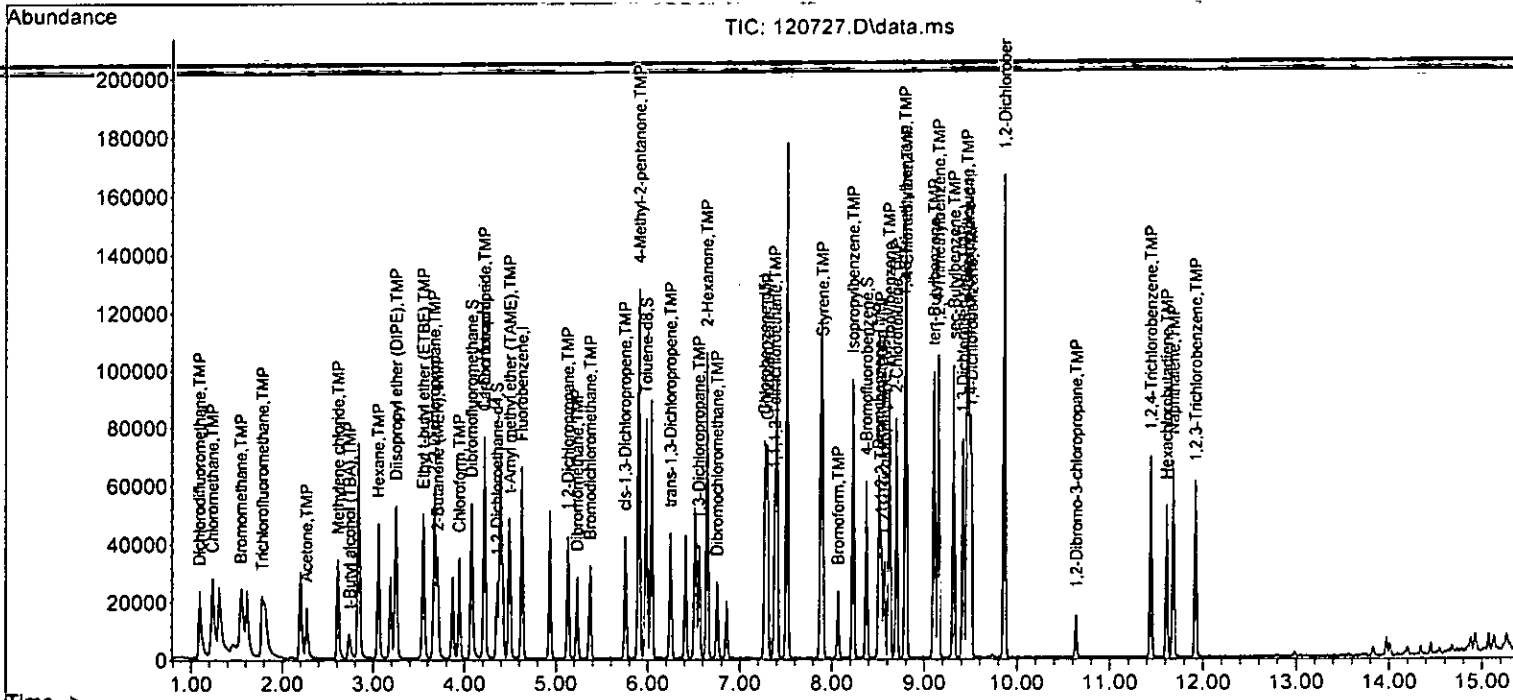
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11581	49.609	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	18935	9.913	ppb	90
40) Toluene	6.04	92	30702	10.192	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	17473	9.862	ppb	94
42) 1,1,2-Trichloroethane	6.40	83	9705	10.032	ppb	98
43) 2-Hexanone	6.64	43	56049	51.542	ppb	97
44) 1,3-Dichloropropane	6.55	76	17251	10.204	ppb	96
45) Tetrachloroethene	6.51	164	11726	10.156	ppb	99
46) Dibromochloromethane	6.75	129	12540	9.812	ppb	99
47) 1,2-Dibromoethane (EDB)	6.85	107	11770	10.443	ppb	99
48) Chlorobenzene	7.30	112	33088	9.904	ppb	97
49) Ethylbenzene	7.40	91	59190	10.592	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	12553	10.041	ppb	81
51) m,p-Xylene	7.52	106	43998	20.555	ppb #	72
52) o-Xylene	7.88	106	21500	10.233	ppb	97
53) Styrene	7.90	104	34040	9.712	ppb	92
54) Isopropylbenzene	8.23	105	56008	9.991	ppb	96
55) Bromoform	8.07	173	9224	9.822	ppb	93
58) n-Propylbenzene	8.62	91	64461	9.989	ppb	93
59) Bromobenzene	8.51	156	15091	10.029	ppb	90
60) 1,3,5-Trimethylbenzene	8.79	105	46022	9.730	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.53	83	15217	10.886	ppb	76
62) 1,2,3-Trichloropropane	8.57	75	11474	10.055	ppb	94
63) 2-Chlorotoluene	8.70	91	38015	9.710	ppb	98
64) 4-Chlorotoluene	8.81	91	43337	9.655	ppb	96
65) tert-Butylbenzene	9.10	119	41899	10.021	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	48306	9.844	ppb	99
67) sec-Butylbenzene	9.32	105	60371	10.025	ppb	97
68) p-Isopropyltoluene	9.46	119	52062	10.093	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	27440	9.801	ppb	90
70) 1,4-Dichlorobenzene	9.51	146	28245	9.896	ppb	94
71) 1,2-Dichlorobenzene	9.86	146	26618	10.264	ppb	91
72) 1,2-Dibromo-3-chloropr...	10.64	75	3028	10.046	ppb	100
73) 1,2,4-Trichlorobenzene	11.44	180	19211	10.302	ppb	97
74) Hexachlorobutadiene	11.61	225	10195	10.375	ppb	90
75) Naphthalene	11.68	128	45880	10.024	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	17377	10.297	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120727.D  
 Acq On : 07 Dec 2022 05:46 pm  
 Operator : LM  
 Sample : 02-2856 lcsd rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:16 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120728.D  
 Acq On : 07 Dec 2022 06:10 pm  
 Operator : LM  
 Sample : 212059-02 ms  
 Misc : water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:20 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	43526	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	36148	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	18850	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	11594	10.107	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	101.10%		
30) 1,2-Dichloroethane-d4	4.36	102	2647	10.202	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery =	102.00%		
35) Toluene-d8	5.98	98	41691	9.820	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery =	98.20%		
57) 4-Bromofluorobenzene	8.38	95	16329	10.026	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery =	100.30%		
<b>Target Compounds</b>						
2) Ethanol	0.00		0	N.D.		Qvalue
4) Dichlorodifluoromethane	1.09	85	30827	9.953	ppb	100
5) Chloromethane	1.23	50	37188	9.849	ppb	89
6] Vinyl chloride	1.30	62	32456	9.969	ppb	94
7) Bromomethane	1.55	94	20243	9.793	ppb	64
8] Chloroethane	1.61	64	16017	11.063	ppb	86
9) Trichlorofluoromethane	1.77	101	38538	9.847	ppb	63
10) 2-Propanol	2.39	45	363	No Calib		
11) Acetone	2.26	58	6660	49.039	ppb	87
12] 1,1-Dichloroethene	2.19	96	10644	9.885	ppb	# 77
13) Hexane	3.05	57	19006	10.170	ppb	94
14) Methylene chloride	2.61	84	13817	11.379	ppb	# 74
15) t-Butyl alcohol (TBA)	2.73	59	9976	49.537	ppb	97
16] Methyl t-butyl ether (...)	2.84	73	33249	10.324	ppb	98
17] trans-1,2-Dichloroethene	2.83	96	12488	10.736	ppb	89
18) Diisopropyl ether (DIPE)	3.24	45	40052	9.660	ppb	98
19] 1,1-Dichloroethane	3.18	63	22356	10.320	ppb	96
20) Ethyl t-butyl ether (E...)	3.55	87	12976	9.701	ppb	96
21) 2,2-Dichloropropane	3.67	77	12793	9.537	ppb	89
22] cis-1,2-Dichloroethene	3.67	96	14419	11.338	ppb	95
23) Chloroform	3.94	83	20262	9.769	ppb	91
24) 2-Butanone (MEK)	3.70	43	34688	47.745	ppb	99
25) t-Amyl methyl ether (T...)	4.49	73	31089	9.670	ppb	99
26] 1,2-Dichloroethane (EDC)	4.42	62	17475	10.195	ppb	96
27] 1,1,1-Trichloroethane	4.08	97	19933	9.881	ppb	97
28) 1,1-Dichloropropene	4.22	75	15664	9.774	ppb	93
29) Carbon tetrachloride	4.21	117	16750	9.717	ppb	95
31] Benzene	4.39	78	44232	10.015	ppb	92
32] Trichloroethene	4.93	95	13711	9.883	ppb	96
33) 1,2-Dichloropropane	5.13	63	12514	9.132	ppb	100
34) Bromodichloromethane	5.37	83	15632	9.571	ppb	95
36) Dibromomethane	5.23	93	7488	9.487	ppb	# 77

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120728.D  
 Acq On : 07 Dec 2022 06:10 pm  
 Operator : LM  
 Sample : 212059-02 ms  
 Misc : water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

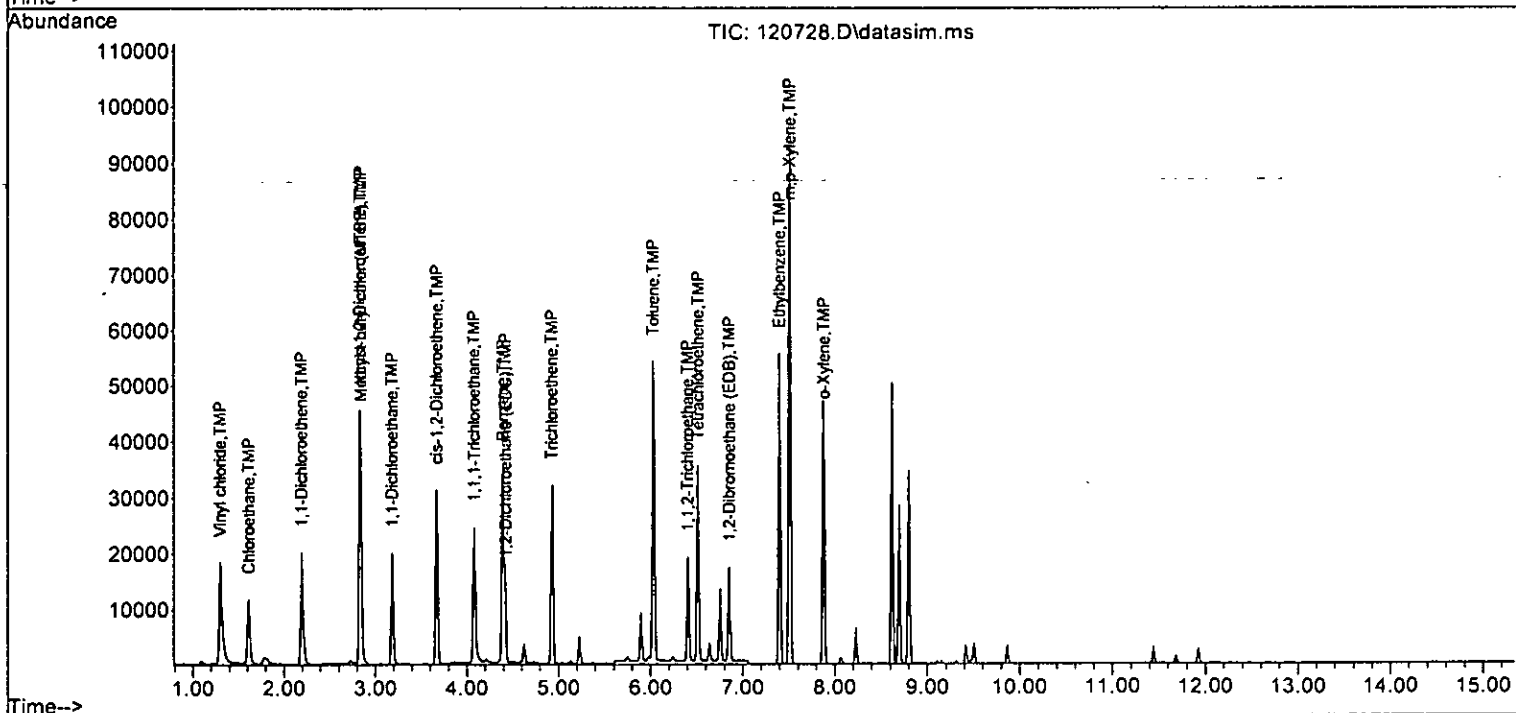
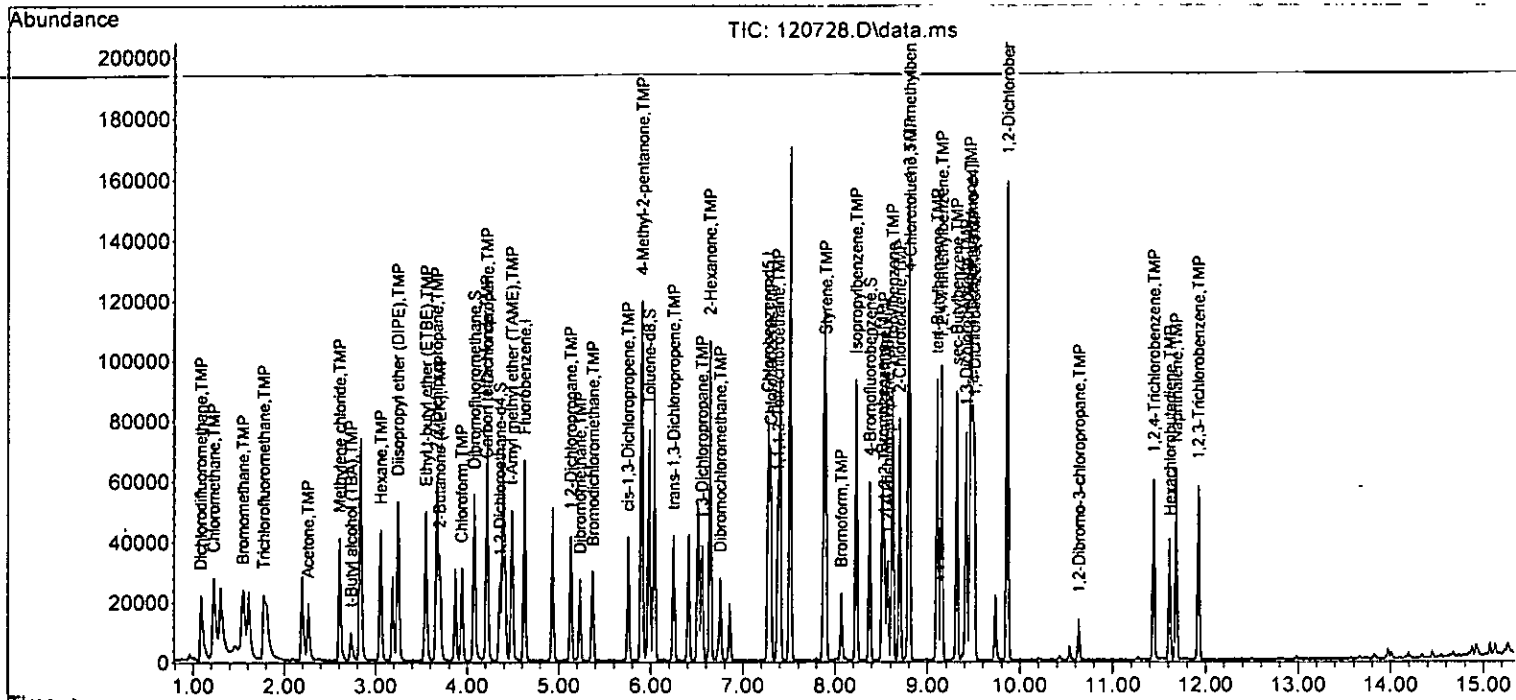
Quant Time: Dec 08 07:50:20 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	12366	52.469	ppb	90
38) cis-1,3-Dichloropropene	5.75	75	18330	9.505	ppb	95
40] Toluene	6.03	92	29894	9.580	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	16433	8.955	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	9404	9.383	ppb	100
43) 2-Hexanone	6.64	43	55878	49.615	ppb	98
44) 1,3-Dichloropropane	6.55	76	17274	9.866	ppb	95
45] Tetrachloroethene	6.51	164	11763	9.835	ppb	99
46) Dibromochloromethane	6.75	129	12646	9.554	ppb	95
47] 1,2-Dibromoethane (EDB)	6.85	107	11416	9.778	ppb	100
48) Chlorobenzene	7.30	112	32214	9.310	ppb	98
49] Ethylbenzene	7.40	91	57689	9.966	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	11872	9.169	ppb #	72
51] m,p-Xylene	7.51	106	42800	19.303	ppb	99
52] o-Xylene	7.88	106	20979	9.640	ppb	97
53) Styrene	7.90	104	33893	9.337	ppb	94
54) Isopropylbenzene	8.23	105	54851	9.447	ppb	95
55) Bromoform	8.07	173	8898	9.148	ppb	94
58) n-Propylbenzene	8.62	91	61526	9.639	ppb	91
59) Bromobenzene	8.51	156	14165	9.518	ppb	89
60) 1,3,5-Trimethylbenzene	8.80	105	44772	9.571	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	14697	10.630	ppb	80
62) 1,2,3-Trichloropropane	8.57	75	11253	9.971	ppb	94
63) 2-Chlorotoluene	8.70	91	36887	9.526	ppb	98
64) 4-Chlorotoluene	8.81	91	42845	9.652	ppb	97
65) tert-Butylbenzene	9.10	119	39838	9.634	ppb	97
66) 1,2,4-Trimethylbenzene	9.15	105	45402	9.355	ppb	99
67) sec-Butylbenzene	9.31	105	55600	9.335	ppb	97
68) p-Isopropyltoluene	9.46	119	48297	9.467	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	26490	9.566	ppb	93
70) 1,4-Dichlorobenzene	9.50	146	26410	9.355	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	25776	10.050	ppb	90
72) 1,2-Dibromo-3-chloropr...	10.64	75	2951	9.899	ppb	91
73) 1,2,4-Trichlorobenzene	11.44	180	17283	9.371	ppb	100
74) Hexachlorobutadiene	11.61	225	7873	8.101	ppb	93
75) Naphthalene	11.68	128	42577	9.406	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	15625	9.361	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120728.D  
 Acq On : 07 Dec 2022 06:10 pm  
 Operator : LM  
 Sample : 212059-02 ms  
 Misc : water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

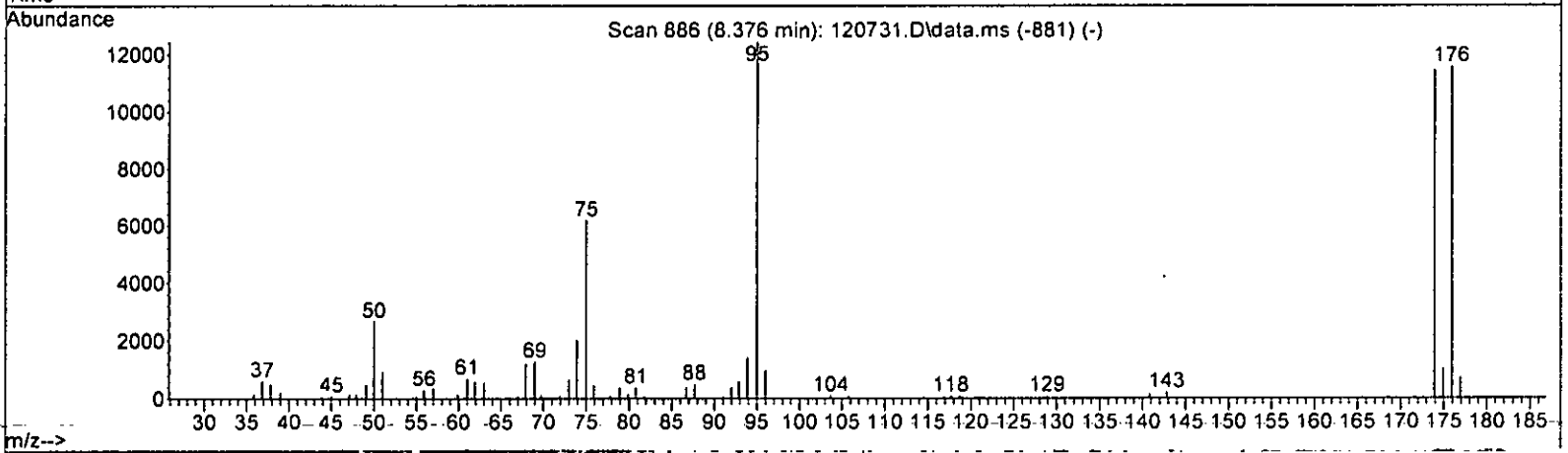
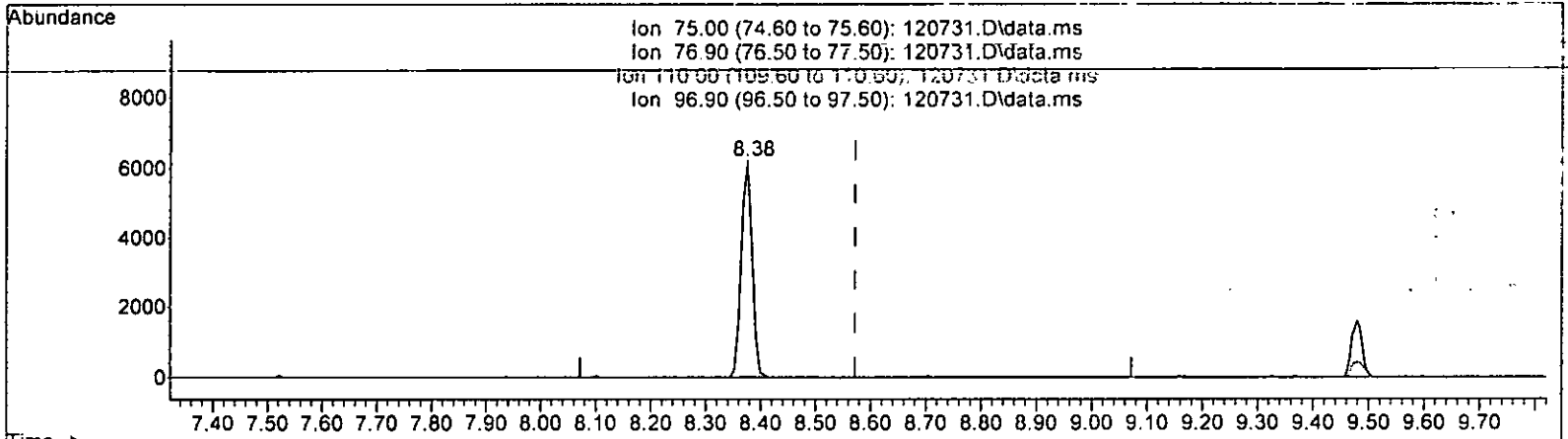
Quant Time: Dec 08 07:50:20 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120731.D  
 Acq On : 07 Dec 2022 07:21 pm  
 Operator : LM  
 Sample : 02-2856 mb rr  
 Misc : water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:24 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120731.D\data.ms

(62) 1,2,3-Trichloropropane (TMP)

8.376min (-0.196) 7.106 ppb

response	8498
Ion	Exp% Act%
75.00	100.00 100.00
76.90	26.80 0.00
110.00	32.90 0.00#
96.90	16.30 0.00

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120731.D  
 Acq On : 07 Dec 2022 07:21 pm  
 Operator : LM  
 Sample : 02-2856 mb rr  
 Misc : water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:24 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	45061	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	36422	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19973	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12232	10.300	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.00%		
30) 1,2-Dichloroethane-d4	4.36	102	2625	9.772	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	97.70%		
35) Toluene-d8	5.98	98	43499	9.897	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	99.00%		
57) 4-Bromofluorobenzene	8.38	95	16761	9.712	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	97.10%		
Target Compounds							
							Qvalue
2) Ethanol	1.88	45	57	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.23	50	1879	N.D.			
6) Vinyl chloride	0.00		0	N.D.			
7) Bromomethane	1.56	94	148	Below Cal		92	
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.39	45	52	No Calib			
11) Acetone	2.28	58	312	2.219	ppb	87	
12) 1,1-Dichloroethene	0.00		0	N.D.			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.61	84	1294	0.349	ppb	96	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.71	43	237	Below Cal		63	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26) 1,2-Dichloroethane (EDC)	4.42	62	57	Below Cal		96	
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31) Benzene	0.00		0	N.D.			
32) Trichloroethene	0.00		0	N.D.			
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120731.D  
 Acq On : 07 Dec 2022 07:21 pm  
 Operator : LM  
 Sample : 02-2856 mb rr  
 Misc : water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS11

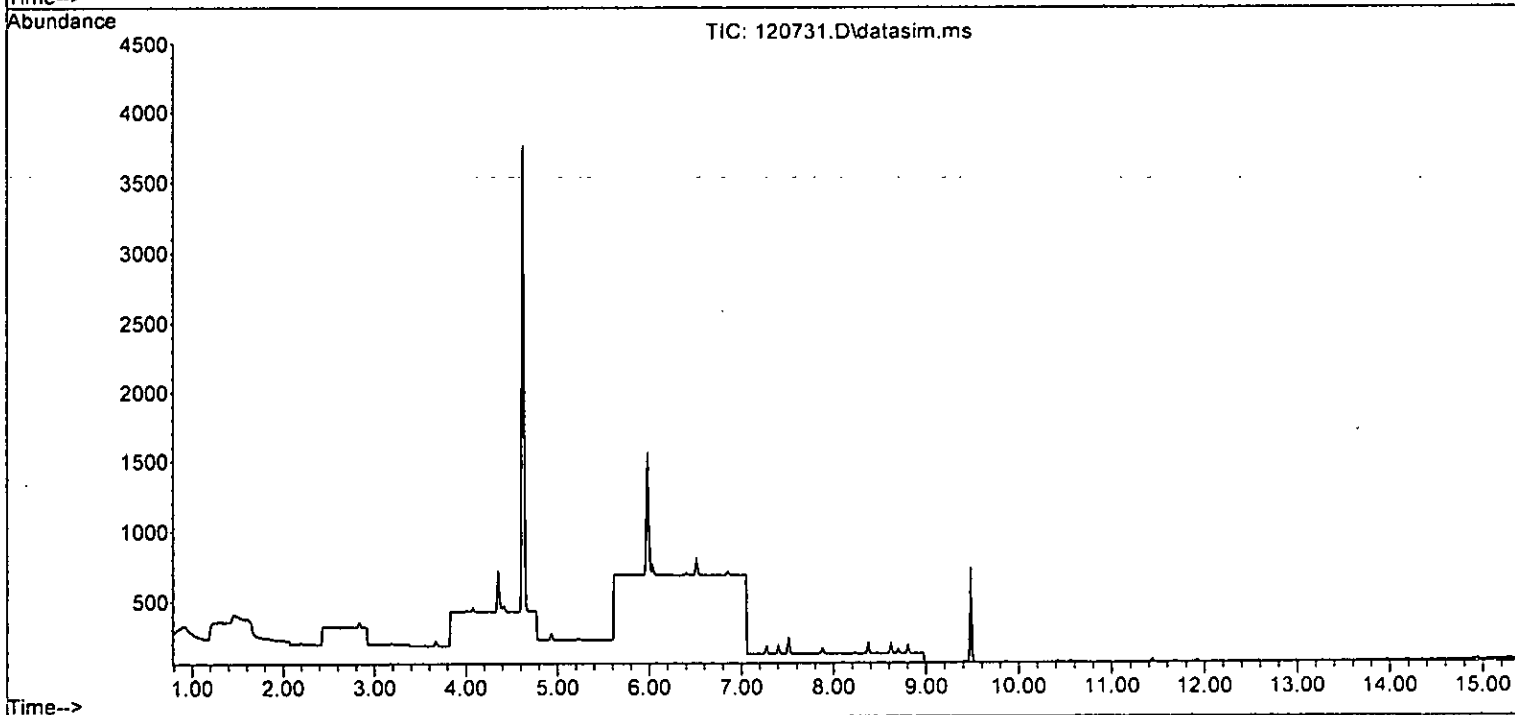
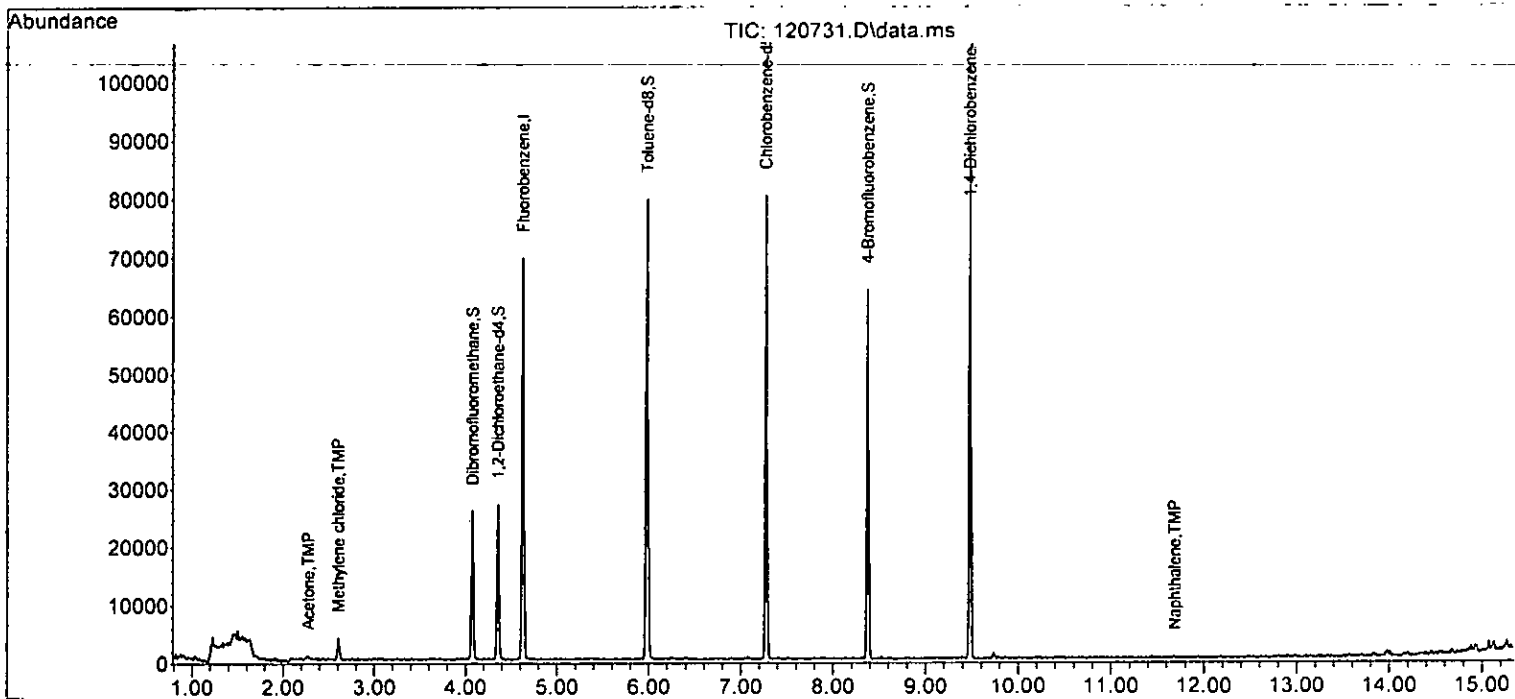
Quant Time: Dec 08 07:50:24 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40) Toluene	0.00		0		N.D.	
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D.	
43) 2-Hexanone	6.73	43	103		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45) Tetrachloroethene	0.00		0		N.D.	
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.40	91	68		Below Cal	99
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.51	106	56		Below Cal	95
52) o-Xylene	0.00		0		N.D.	
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	8.22	105	64		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.63	91	64		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.63	91	64		N.D.	
64) 4-Chlorotoluene	8.81	91	99		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.15	105	178		N.D.	
67) sec-Butylbenzene	9.32	105	139		N.D.	
68) p-Isopropyltoluene	9.47	119	60		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	11.44	180	89		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.68	128	241	0.050	ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120731.D  
 Acq On : 07 Dec 2022 07:21 pm  
 Operator : LM  
 Sample : 02-2856 mb rr  
 Misc : water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:24 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120722.D  
 Acq On : 07 Dec 2022 03:49 pm  
 Operator : LM  
 Sample : 212059-02  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

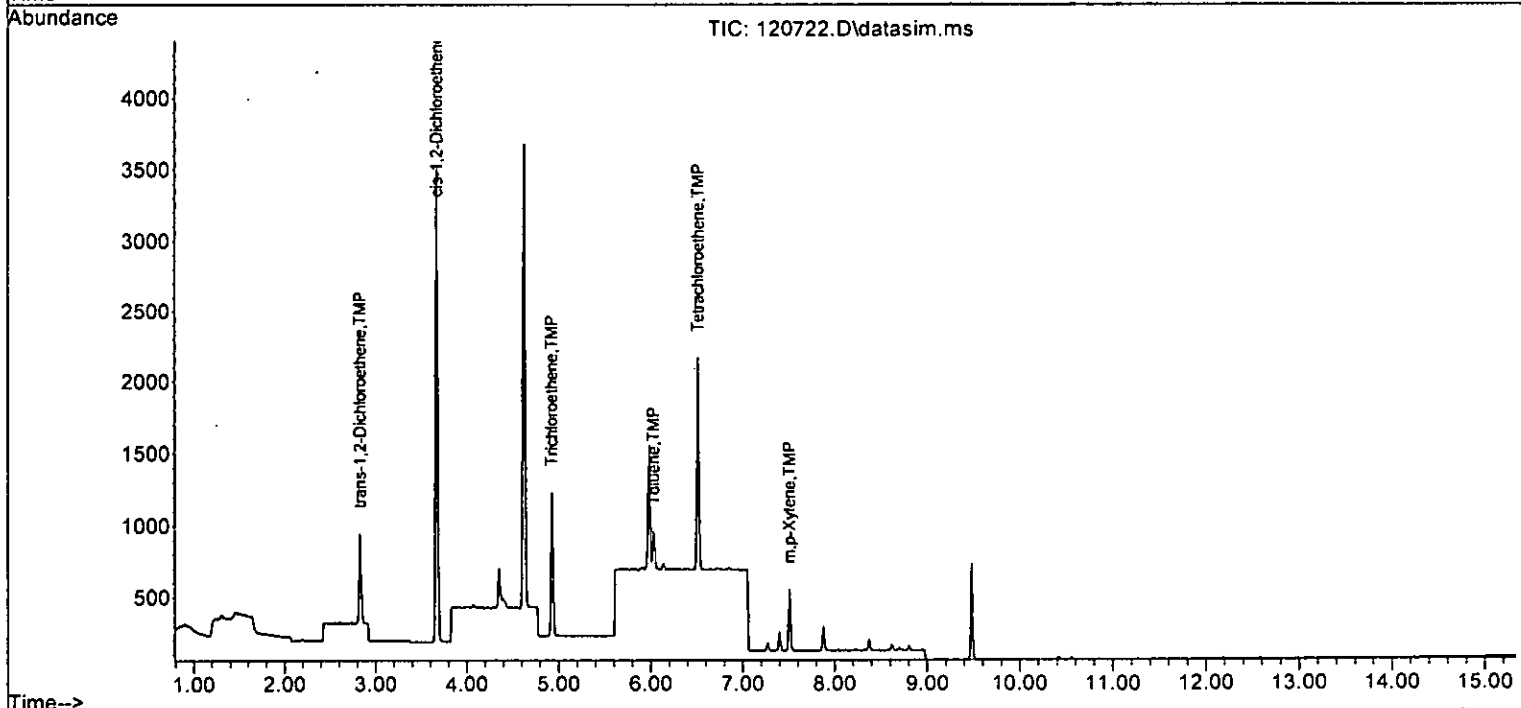
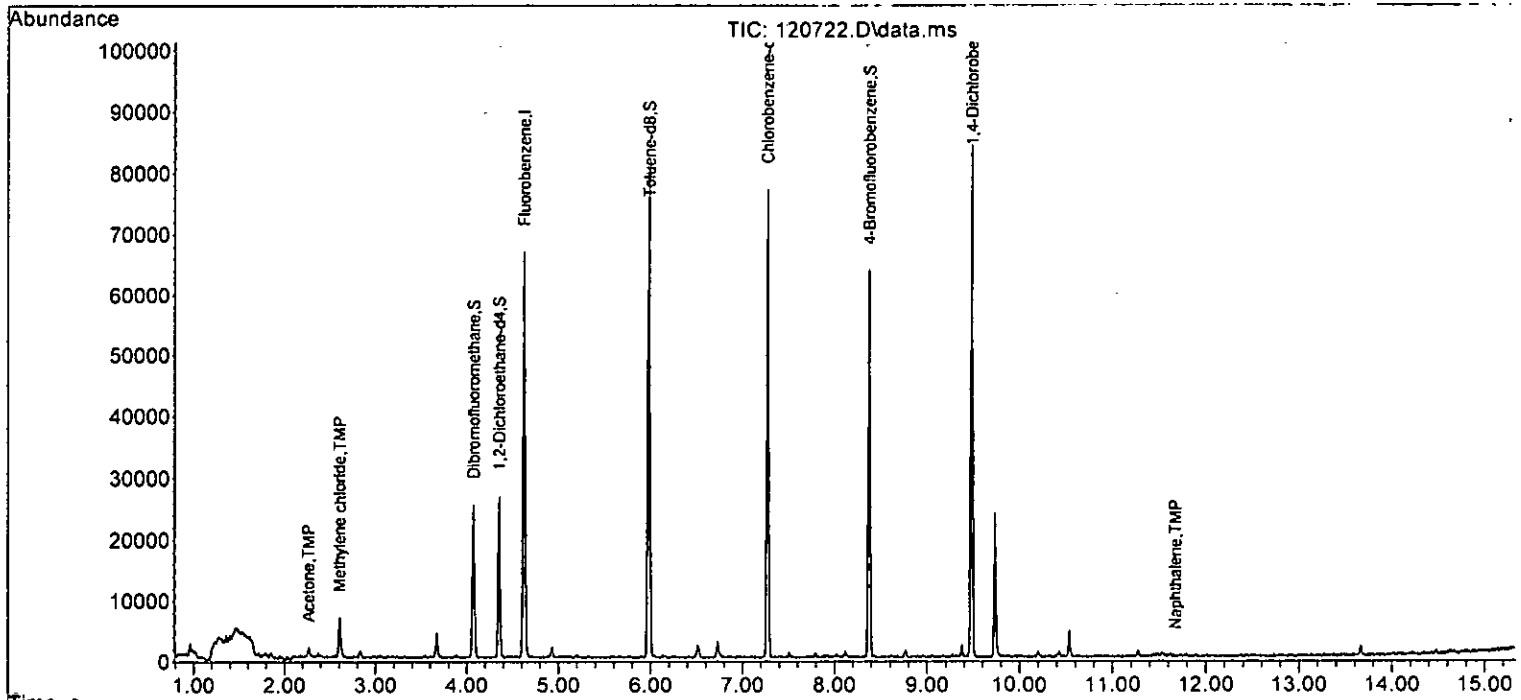
Quant Time: Dec 08 07:50:00 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

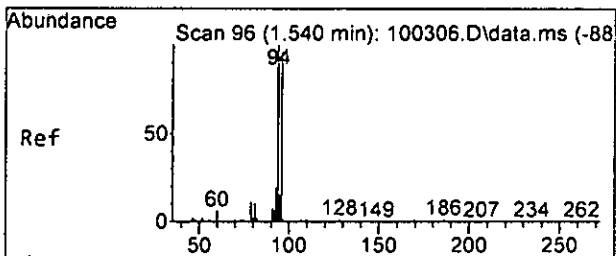
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	43595	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35440	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19472	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11541	10.045	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.50%		
30) 1,2-Dichloroethane-d4	4.36	102	2449	9.424	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	94.20%		
35) Toluene-d8	5.98	98	42240	9.933	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	99.30%		
57) 4-Bromofluorobenzene	8.38	95	16624	9.881	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	98.80%		
Target Compounds							
							Qvalue
5) Chloromethane	1.23	50	324	Below Cal			95
6) Vinyl chloride	1.30	62	79	Below Cal			61
7) Bromomethane	1.52	94	238	Below Cal	#		18
11) Acetone	2.27	58	519	3.815	ppb	#	73
14) Methylene chloride	2.61	84	2213	1.190	ppb	#	77
17] trans-1,2-Dichloroethene	2.83	96	265	0.194	ppb		85
22] cis-1,2-Dichloroethene	3.67	96	1568	1.209	ppb		97
24) 2-Butanone (MEK)	3.71	43	258	Below Cal			63
26] 1,2-Dichloroethane (EDC)	4.42	62	51	Below Cal			95
32] Trichloroethene	4.93	95	430	0.280	ppb		97
40] Toluene	6.03	92	152	0.022	ppb		96
45] Tetrachloroethene	6.51	164	504	0.379	ppb		99
49] Ethylbenzene	7.40	91	142	Below Cal			100
51] m,p-Xylene	7.51	106	191	0.030	ppb		98
75) Naphthalene	11.68	128	128	0.027	ppb		68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120722.D  
 Acq On : 07 Dec 2022 03:49 pm  
 Operator : LM  
 Sample : 212059-02  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

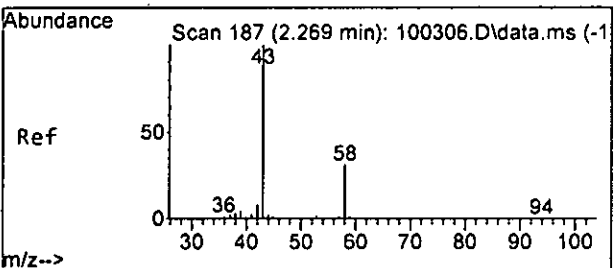
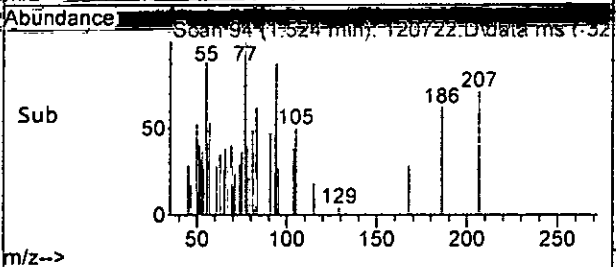
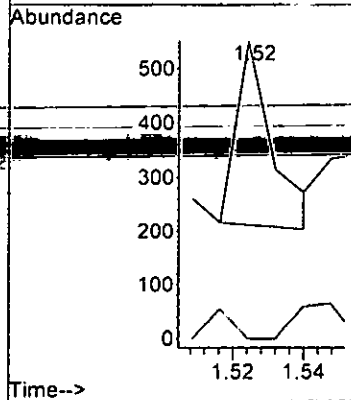
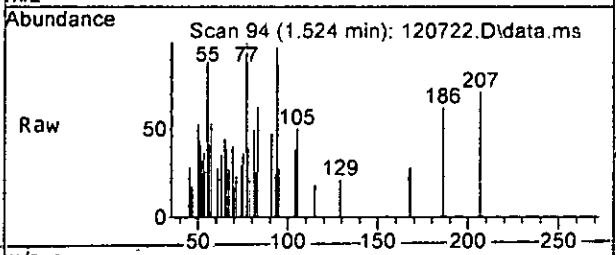
Quant Time: Dec 08 07:50:00 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





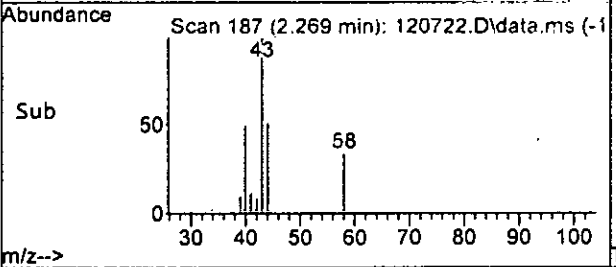
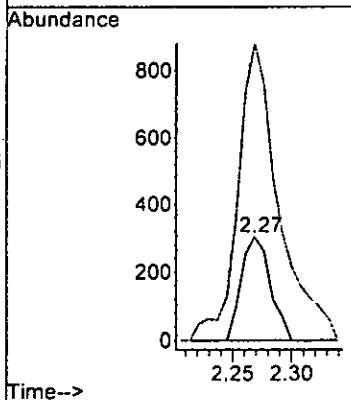
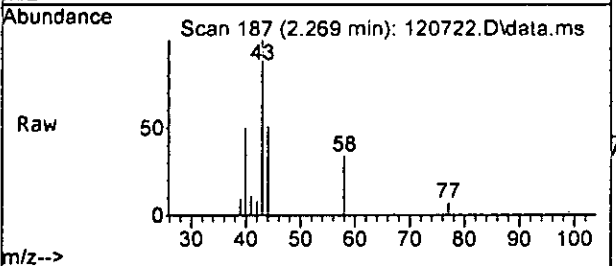
#7  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.52 min Scan# 94  
 Delta R.T. -0.016 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

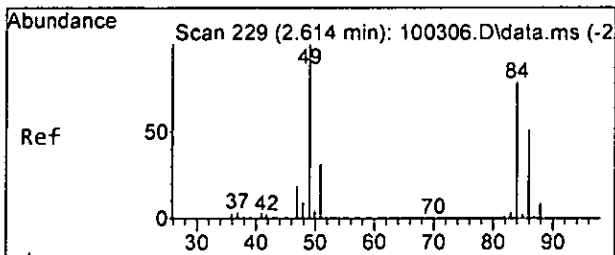
Tgt Ion: 94 Resp: 238  
 Ion Ratio Lower Upper  
 94 100  
 96 0.0 33.9 93.9#



#11  
 Acetone  
 Concen: 3.815 ppb  
 RT: 2.27 min Scan# 187  
 Delta R.T. -0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 58 Resp: 519  
 Ion Ratio Lower Upper  
 58 100  
 43 407.3 319.7 379.7#

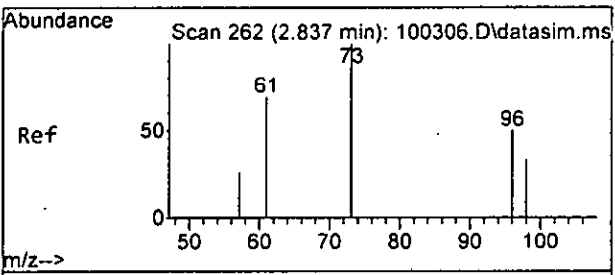
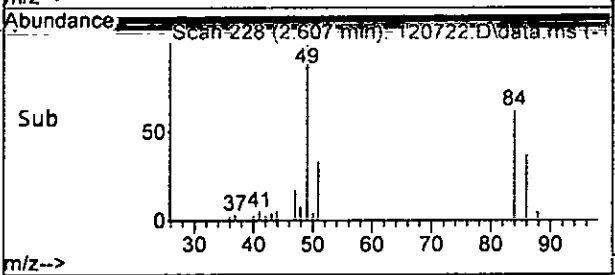
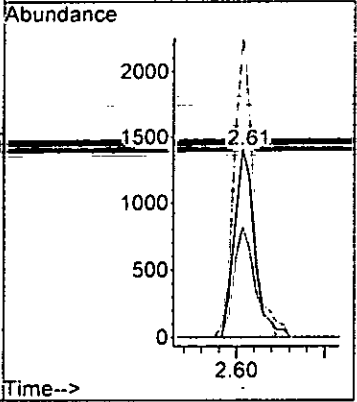
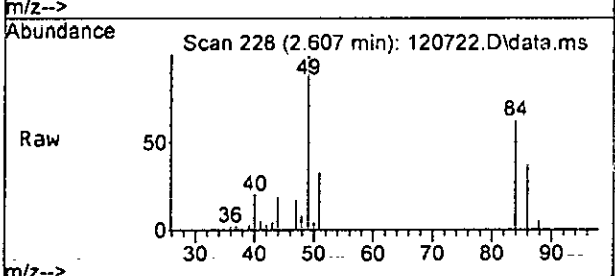




#14  
 Methylene chloride  
 Concen: 1.190 ppb  
 RT: 2.61 min Scan# 228  
 Delta R.T. -0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 84 Resp: 2213

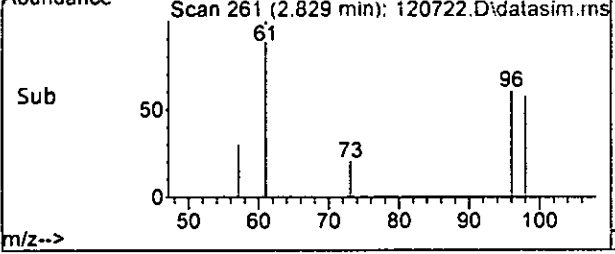
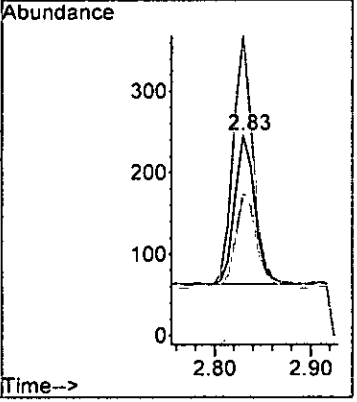
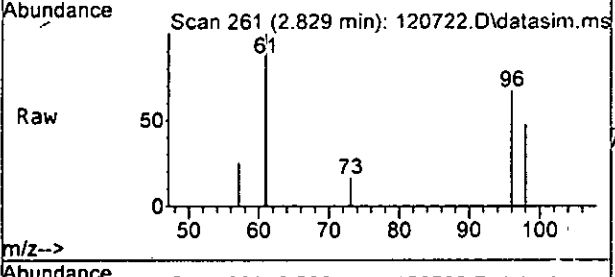
Ion	Ratio	Lower	Upper
84	100		
86	58.8	30.4	90.4
49	160.5	93.0	153.0#

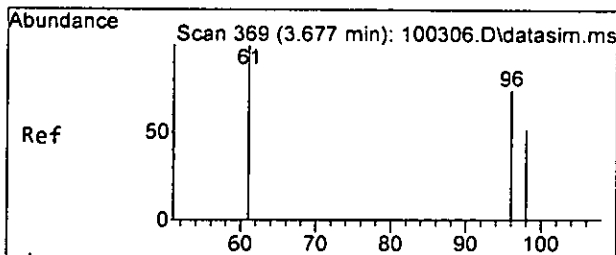


#17  
 trans-1,2-Dichloroethene  
 Concen: 0.194 ppb  
 RT: 2.83 min Scan# 261  
 Delta R.T. -0.001 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 96 Resp: 265

Ion	Ratio	Lower	Upper
96	100		
61	166.7	113.1	173.1
98	62.3	38.0	98.0

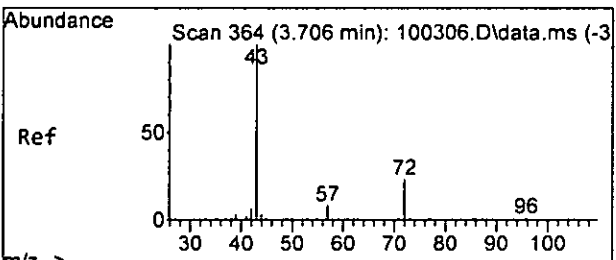
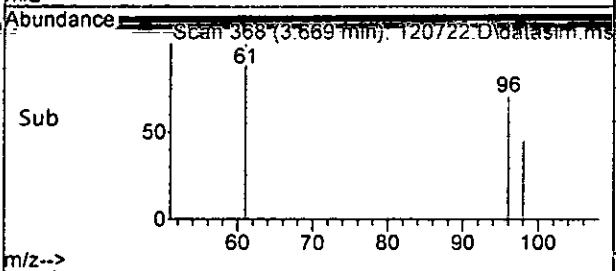
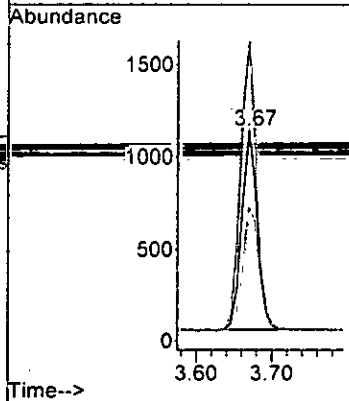
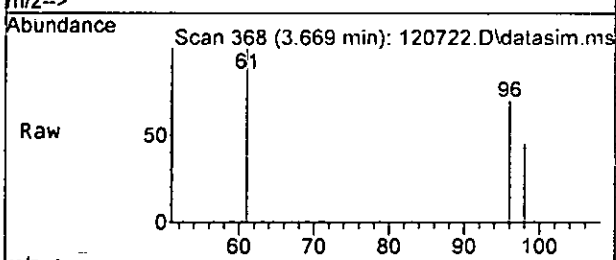




#22  
 cis-1,2-Dichloroethene  
 Concen: 1.209 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. 0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 96 Resp: 1568

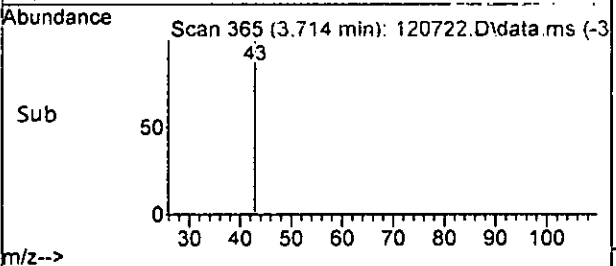
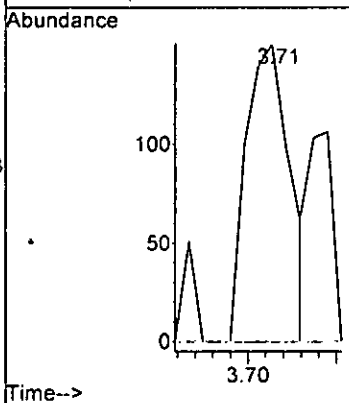
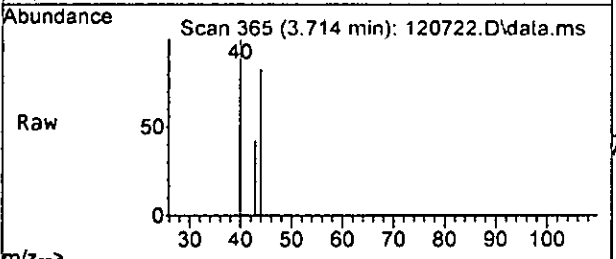
Ion	Ratio	Lower	Upper
96	100		
61	145.3	116.5	176.5
98	61.8	36.7	96.7

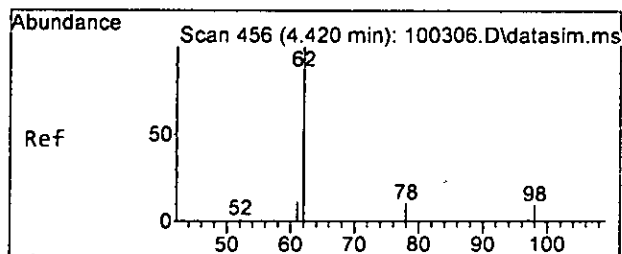


#24  
 2-Butanone (MEK)  
 Concen: Below Cal  
 RT: 3.71 min Scan# 365  
 Delta R.T. 0.008 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 43 Resp: 258

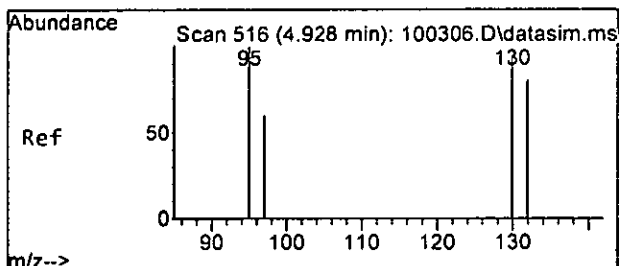
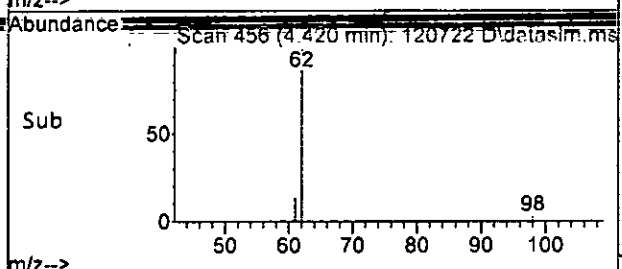
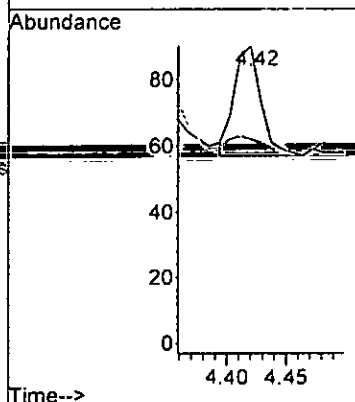
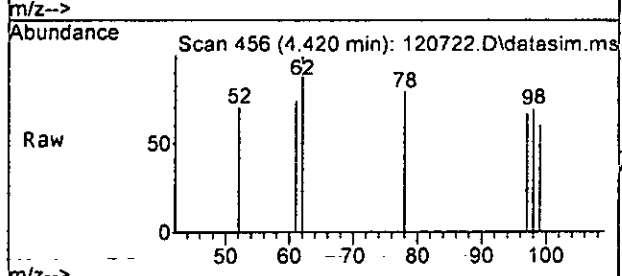
Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	49.9
57	0.0	0.0	28.2





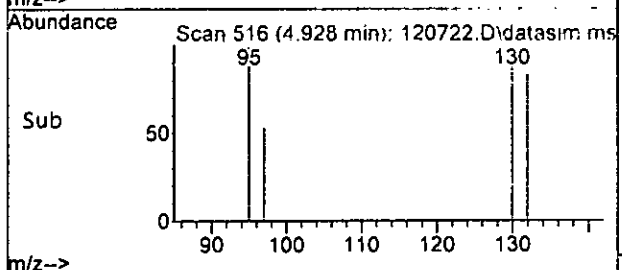
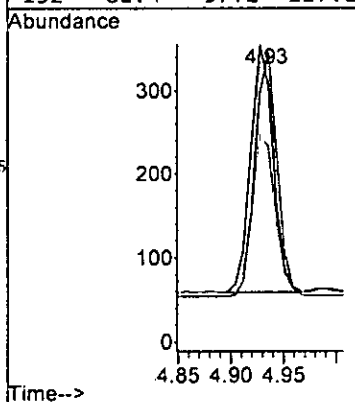
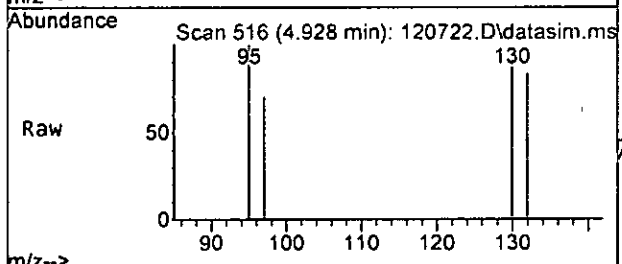
#26  
 1,2-Dichloroethane (EDC)  
 Concen: Below Cal  
 RT: 4.42 min Scan# 456  
 Delta R.T. -0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

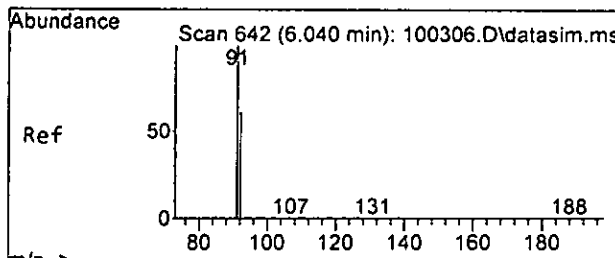
Tgt Ion: 62 Resp: 51  
 Ion Ratio Lower Upper  
 62 100  
 98 9.1 0.0 37.4



#32  
 Trichloroethene  
 Concen: 0.280 ppb  
 RT: 4.93 min Scan# 516  
 Delta R.T. -0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

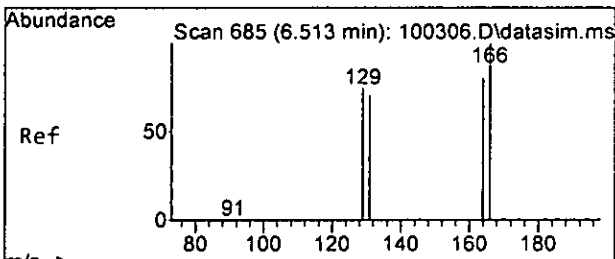
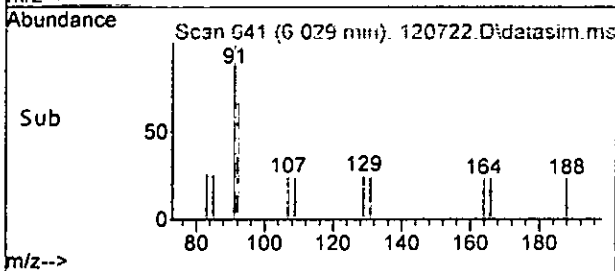
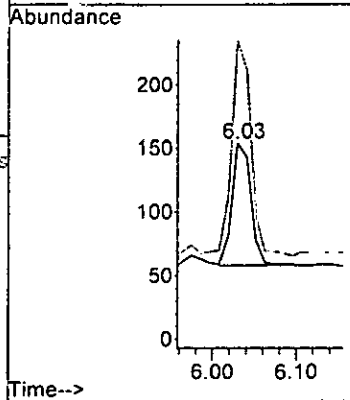
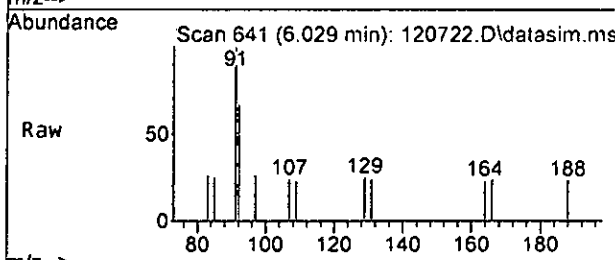
Tgt Ion: 95 Resp: 430  
 Ion Ratio Lower Upper  
 95 100  
 97 63.5 33.6 93.6  
 130 92.2 65.5 125.5  
 132 82.4 57.2 117.2





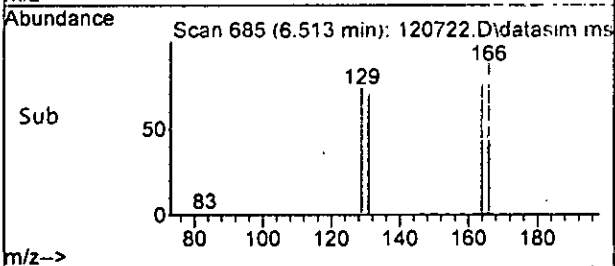
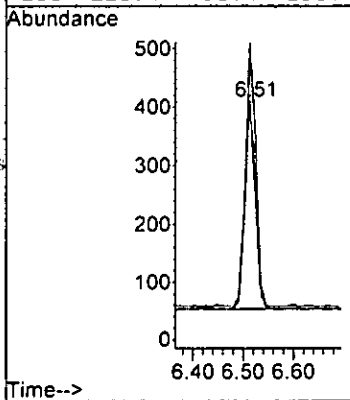
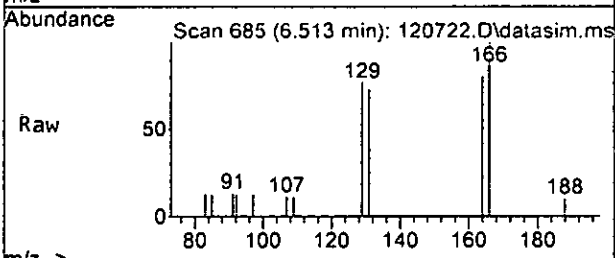
#40  
Toluene  
Concen: 0.022 ppb  
RT: 6.03 min Scan# 641  
Delta R.T. -0.001 min  
Lab File: 120722.D  
Acq: 07 Dec 2022 03:49 pm

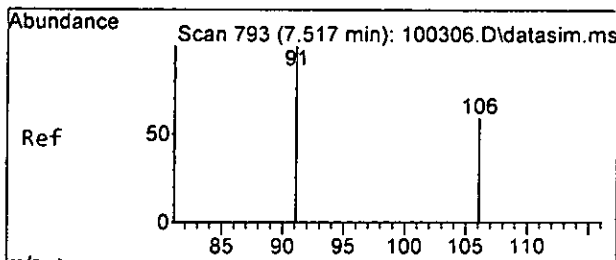
Tgt Ion: 92 Resp: 152  
Ion Ratio Lower Upper  
92 100  
91 172.9 148.8 208.8



#45  
Tetrachloroethene  
Concen: 0.379 ppb  
RT: 6.51 min Scan# 685  
Delta R.T. 0.000 min  
Lab File: 120722.D  
Acq: 07 Dec 2022 03:49 pm

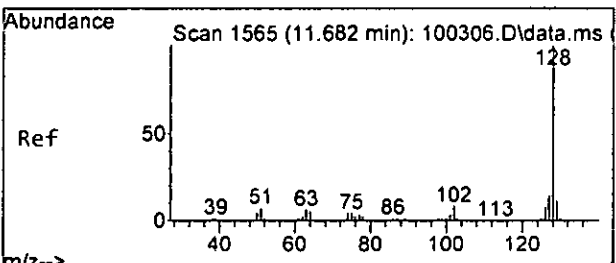
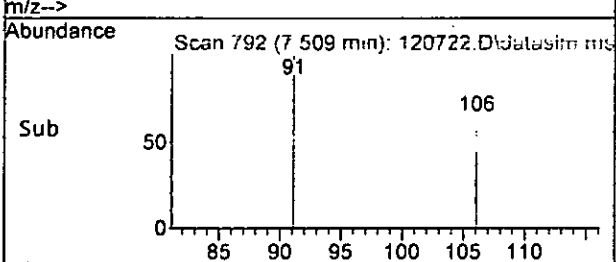
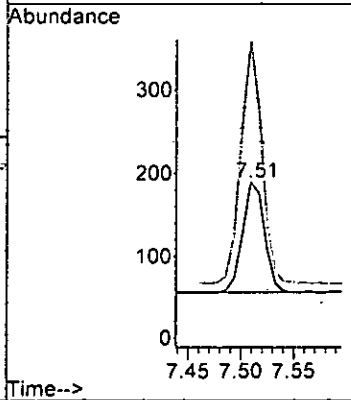
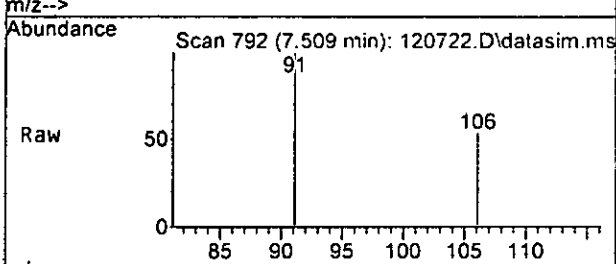
Tgt Ion: 164 Resp: 504  
Ion Ratio Lower Upper  
164 100  
129 93.8 62.5 122.5  
131 89.0 60.3 120.3  
166 128.4 98.4 158.4





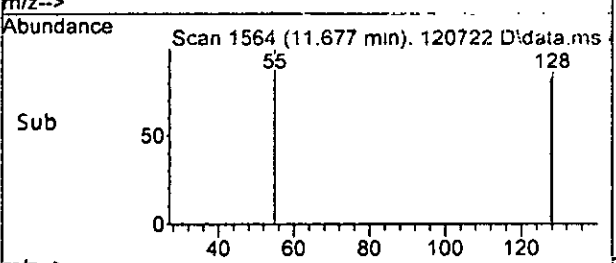
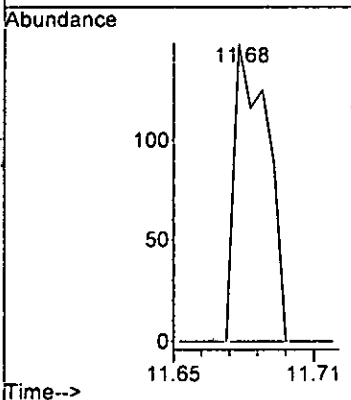
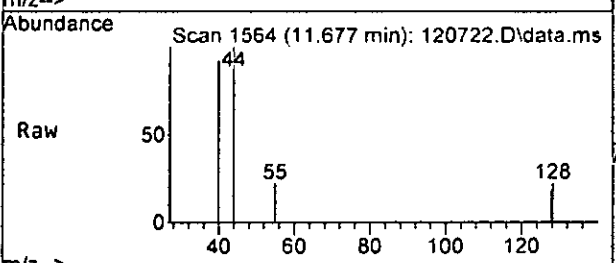
#51  
 m,p-Xylene  
 Concen: 0.030 ppb  
 RT: 7.51 min Scan# 792  
 Delta R.T. -0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 106 Resp: 191  
 Ion Ratio Lower Upper  
 106 100  
 91 218.8 191.7 251.7



#75  
 Naphthalene  
 Concen: 0.027 ppb  
 RT: 11.68 min Scan# 1564  
 Delta R.T. -0.005 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 128 Resp: 128  
 Ion Ratio Lower Upper  
 128 100  
 129 0.0 0.0 41.7  
 127 0.0 0.0 43.5





Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120722.D  
 Acq On : 07 Dec 2022 03:49 pm  
 Operator : LM  
 Sample : 212059-02  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:00 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	43595	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35440	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19472	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	11541	10.045	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.50%		
30) 1,2-Dichloroethane-d4	4.36	102	2449	9.424	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	94.20%		
35) Toluene-d8	5.98	98	42240	9.933	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	99.30%		
57) 4-Bromofluorobenzene	8.38	95	16624	9.881	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	98.80%		
<b>Target Compounds</b>							
2) Ethanol	0.00		0		N.D.		Qvalue
4) Dichlorodifluoromethane	0.00		0		N.D.		
5) Chloromethane	1.23	50	324		Below Cal		95
6] Vinyl chloride	1.30	62	79		Below Cal		61
7) Bromomethane	1.52	94	238		Below Cal #		18
8) Chloroethane	0.00		0		N.D.		
9) Trichlorofluoromethane	0.00		0		N.D.		
10) 2-Propanol	2.40	45	268		No Calib		
11) Acetone	2.27	58	519		3.815 ppb #		73
12) 1,1-Dichloroethene	0.00		0		N.D.		
13) Hexane	0.00		0		N.D.		
14) Methylene chloride	2.61	84	2213		1.190 ppb #		77
15) t-Butyl alcohol (TBA)	0.00		0		N.D.		
16) Methyl t-butyl ether (...)	0.00		0		N.D.		
17] trans-1,2-Dichloroethene	2.83	96	265		0.194 ppb		85
18) Diisopropyl ether (DIPE)	0.00		0		N.O.		
19) 1,1-Dichloroethane	0.00		0		N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.		
21) 2,2-Dichloropropane	0.00		0		N.D.		
22] cis-1,2-Dichloroethene	3.67	96	1568		1.209 ppb		97
23) Chloroform	0.00		0		N.D.		
24) 2-Butanone (MEK)	3.71	43	258		Below Cal		63
25) t-Amyl methyl ether (T...)	0.00		0		N.D.		
26] 1,2-Dichloroethane (EDC)	4.42	62	51		Below Cal		95
27) 1,1,1-Trichloroethane	0.00		0		N.D.		
28) 1,1-Dichloropropene	0.00		0		N.D.		
29) Carbon tetrachloride	0.00		0		N.D.		
31) Benzene	4.39	78	82		N.D.		
32] Trichloroethene	4.93	95	430		0.280 ppb		97
33) 1,2-Dichloropropane	0.00		0		N.D.		
34) Bromodichloromethane	0.00		0		N.D.		
36) Dibromomethane	0.00		0		N.D.		

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120722.D  
 Acq On : 07 Dec 2022 03:49 pm  
 Operator : LM  
 Sample : 2120S9-02  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

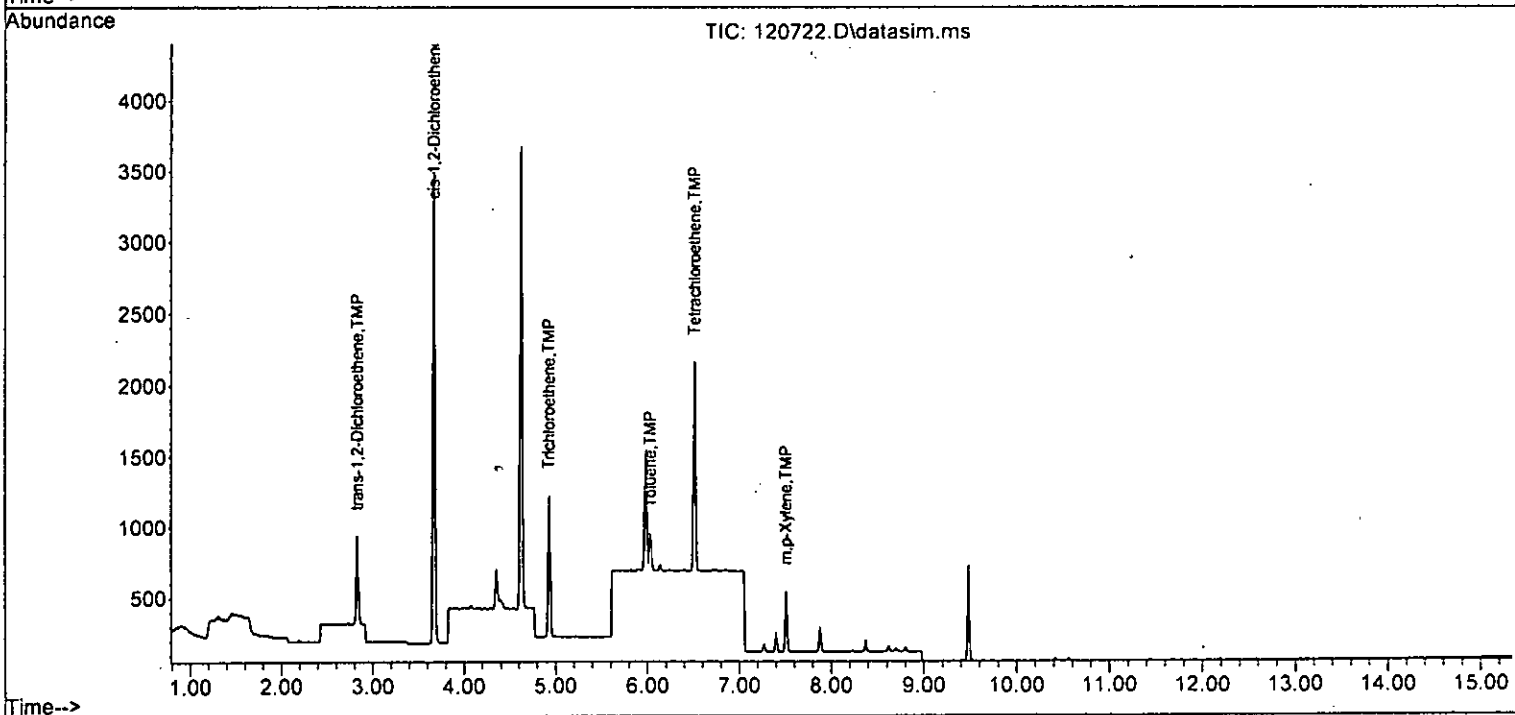
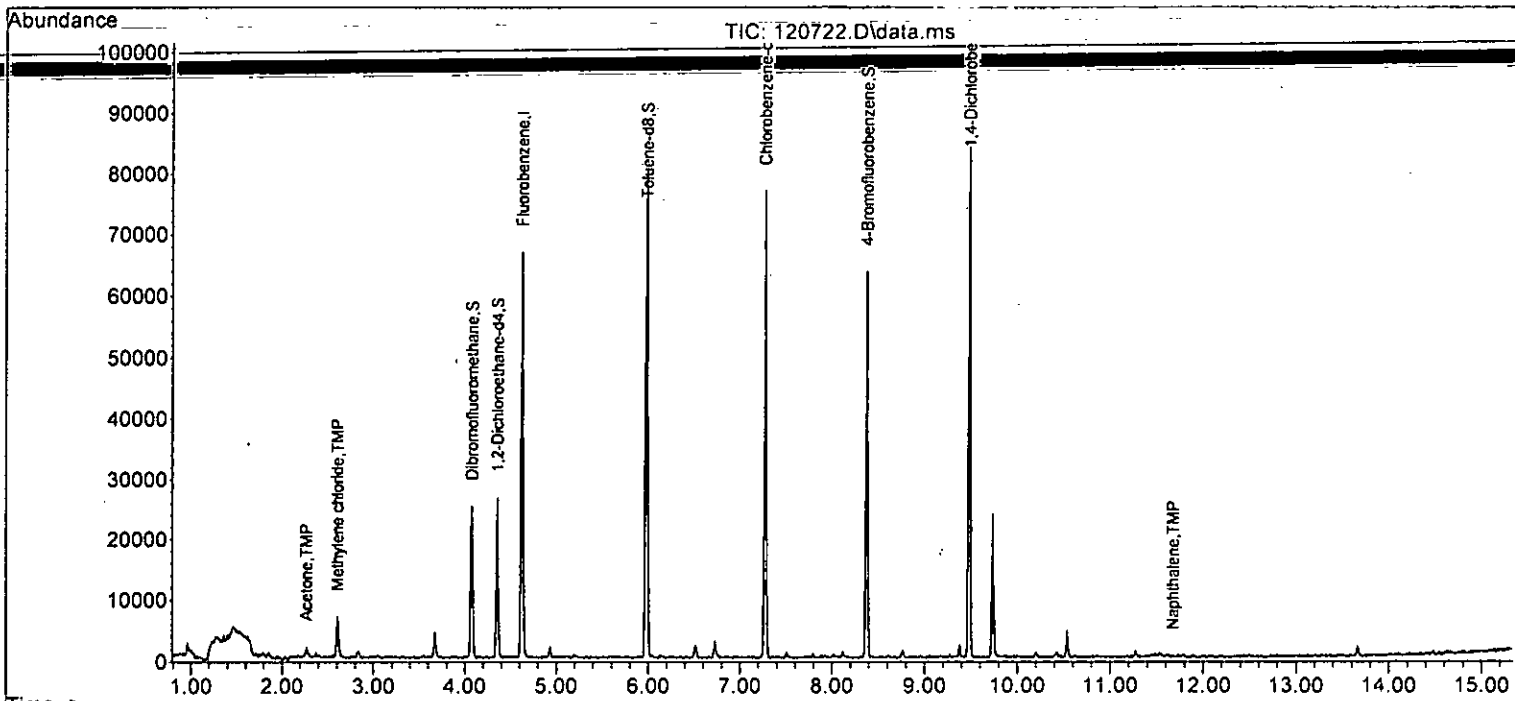
Quant Time: Dec 08 07:50:00 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.03	92	152	0.022	ppb	96
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D.	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.51	164	504	0.379	ppb	99
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.40	91	142	Below Cal		100
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.51	106	191	0.030	ppb	98
52) o-Xylene	7.88	106	76		N.D.	
53) Styrene	7.89	104	61		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.62	91	108		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.62	91	108		N.D.	
64) 4-Chlorotoluene	8.62	91	108		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.16	105	133		N.D.	
67) sec-Butylbenzene	9.16	105	133		N.D.	
68) p-Isopropyltoluene	0.00		0		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.68	128	128	0.027	ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
Data File : 120722.D  
Acq On : 07 Dec 2022 03:49 pm  
Operator : LM  
Sample : 212059-02  
Misc : water  
ALS Vial : 18 Sample Multiplier: 1  
InstName : GCMS11

Quant Time: Dec 08 07:50:00 2022  
Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Mon Dec 05 13:11:58 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M

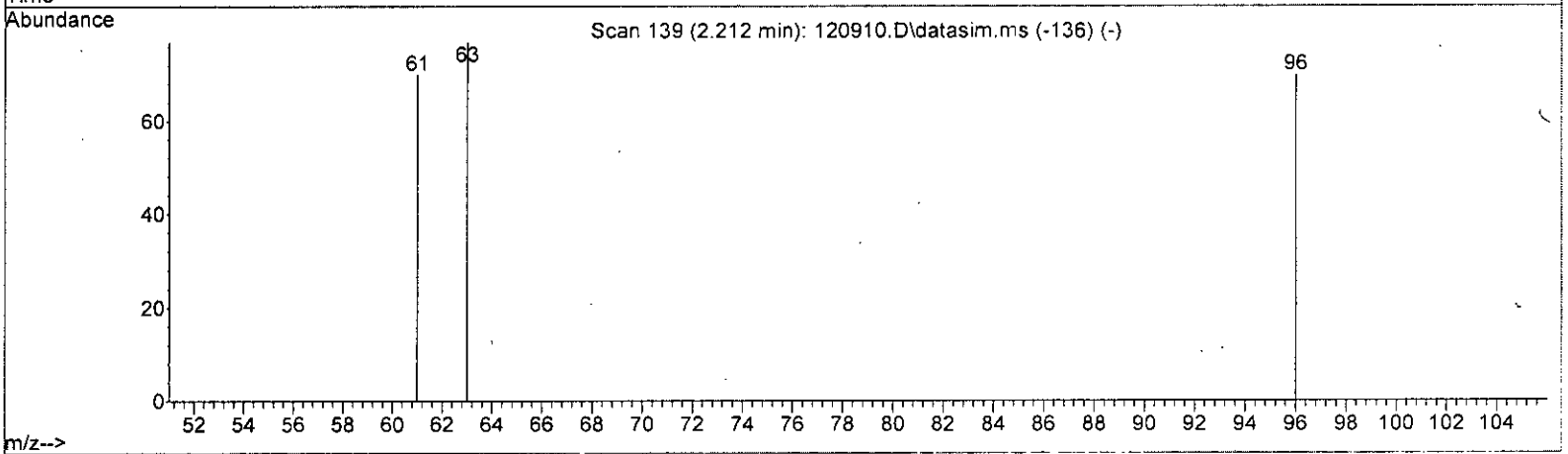
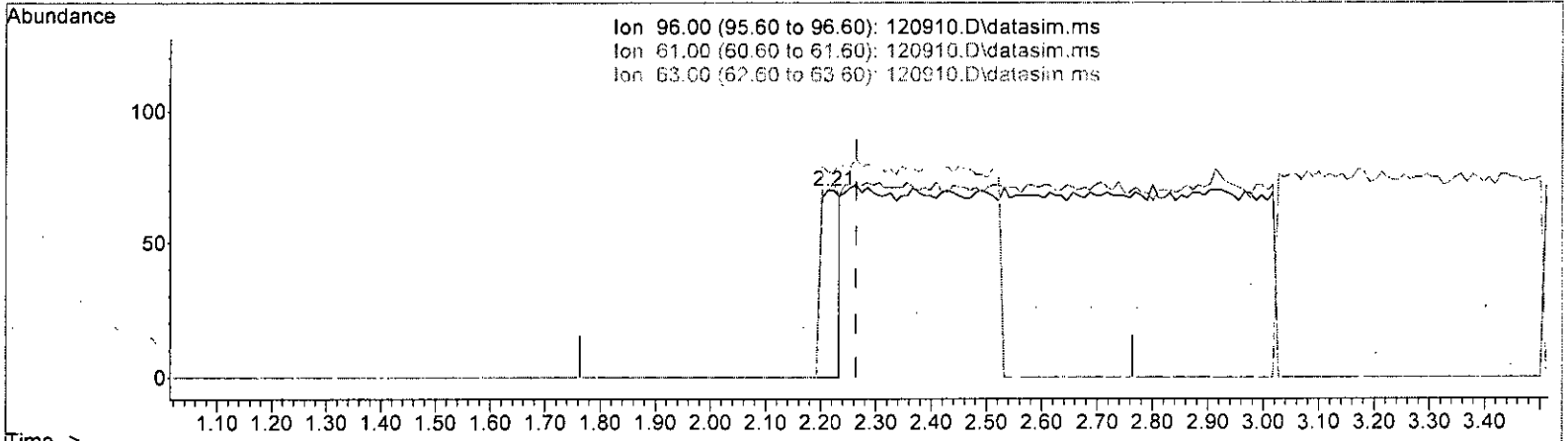


**EPA 8260D**  
**Sample Data**

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120910.D  
 Acq On : 09 Dec 2022 12:25 pm  
 Operator : lm *59*  
 Sample : 212000-01 rr *m 12/13*  
 Misc : water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:54 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120910.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.212min (-0.051) 0.063 ppb

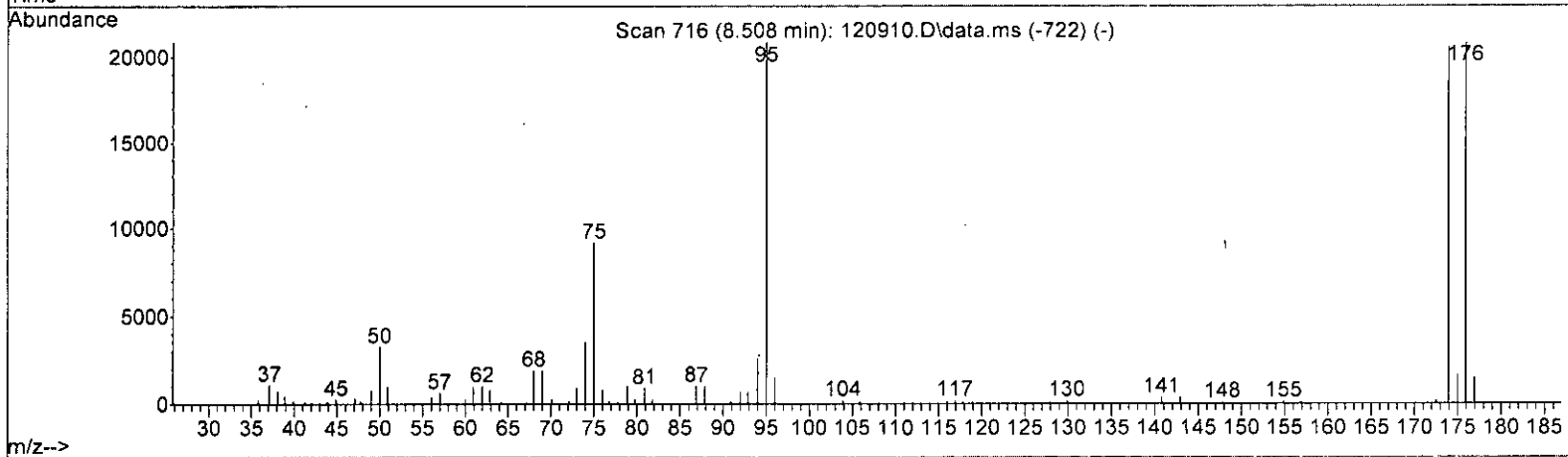
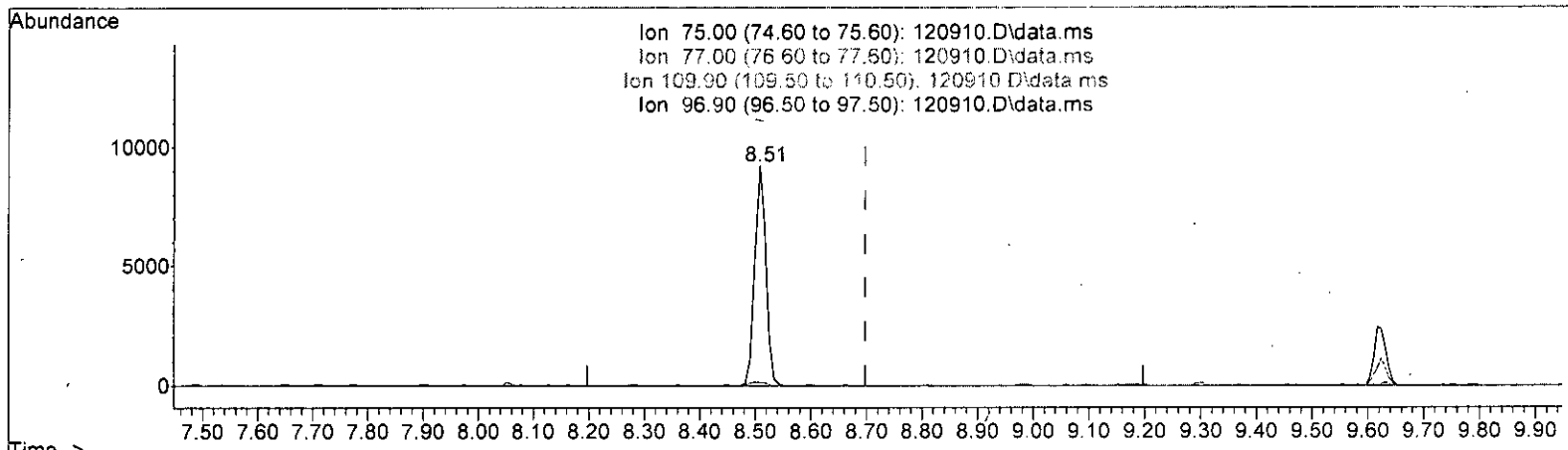
response 170

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	100.00
63.00	41.10	110.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120910.D  
 Acq On : 09 Dec 2022 12:25 pm  
 Operator : lm  
 Sample : 212050-01 rr m 12/3  
 Misc : water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:54 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120910.D\data.ms

(62) 1,2,3-Trichloropropane (TMP)			
8.508min (-0.190) 10.246 ppb			
response	12733		
Ion	Exp%	Act%	
75.00	100.00	100.00	
77.00	32.60	1.42#	
109.90	53.40	0.00#	
96.90	24.30	0.00	

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120910.D  
 Acq On : 09 Dec 2022 12:25 pm  
 Operator : lm  
 Sample : 212059-01 rr  
 Misc : water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS13

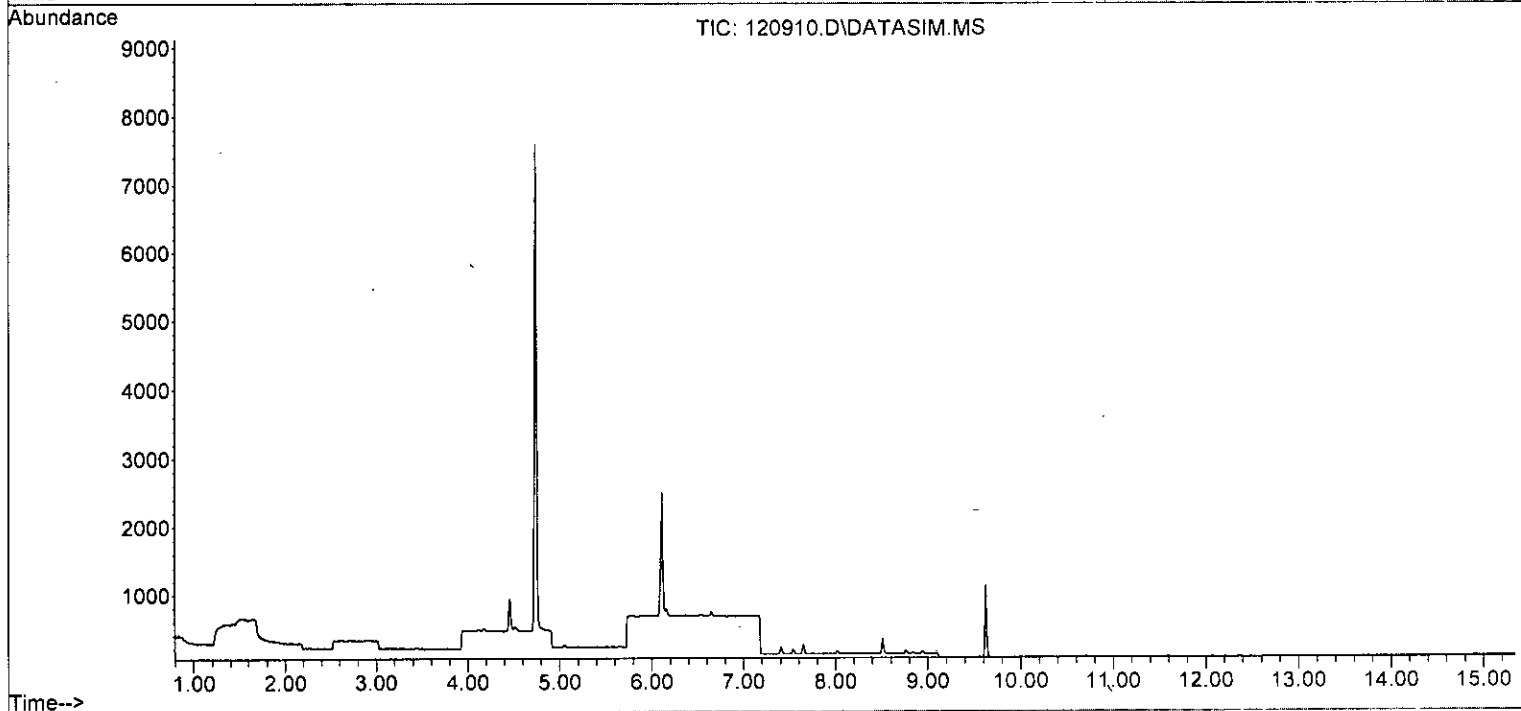
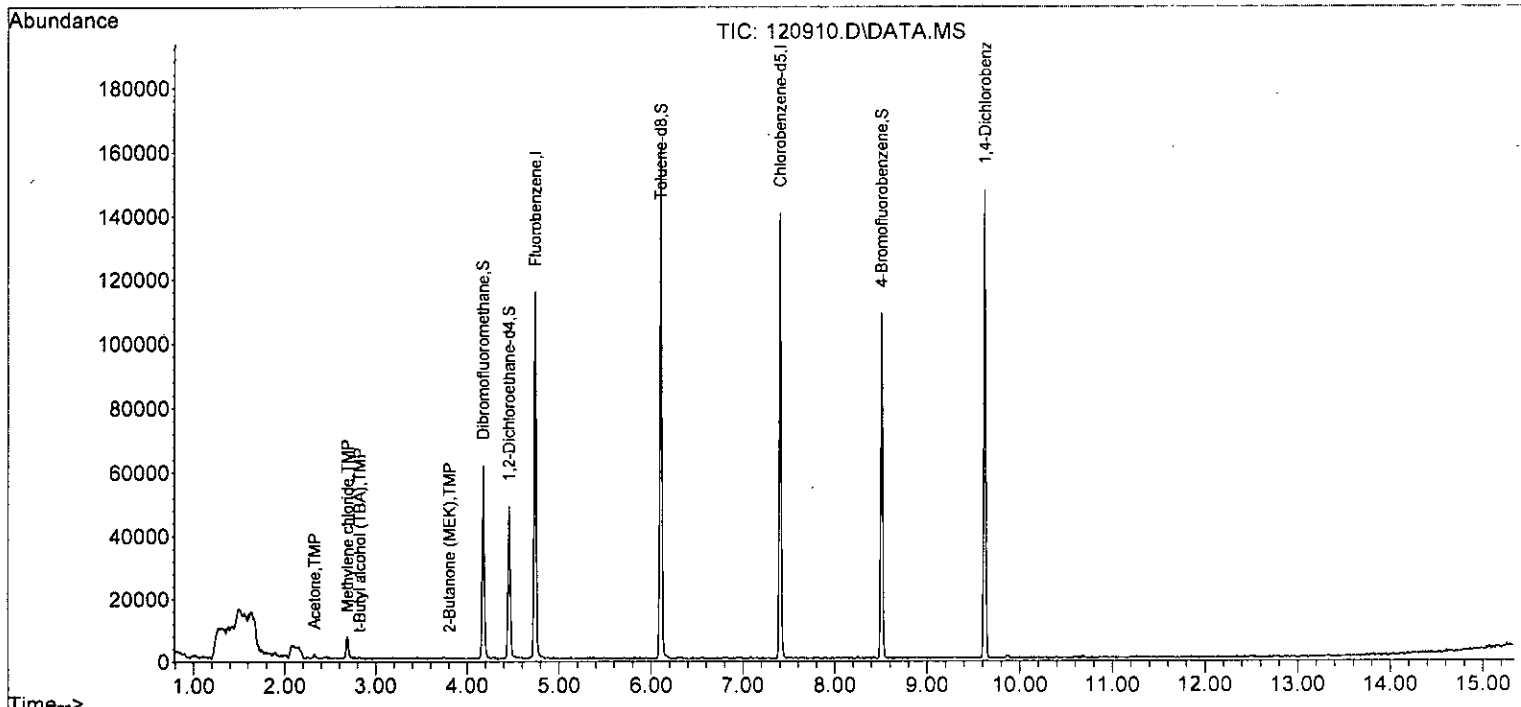
Quant Time: Dec 12 07:58:54 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.75	96	108365	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	69593	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	36832	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.17	113	27634	8.005	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	80.00%	
30) 1,2-Dichloroethane-d4	4.45	102	5674	8.769	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	87.70%	
35) Toluene-d8	6.11	98	90522	9.293	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	92.90%	
57) 4-Bromofluorobenzene	8.51	95	28682	12.851	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	128.50%	
<b>Target Compounds</b>						
11) Acetone	2.33	58	301	3.001	ppb #	30
14) Methylene chloride	2.69	84	3446	0.635	ppb	89
15) t-Butyl alcohol (TBA)	2.83	59	33	0.137	ppb #	1
21) 2,2-Dichloropropane	3.81	77	37	Below Cal	#	43
24) 2-Butanone (MEK)	3.81	43	124	0.712	ppb	57
49] Ethylbenzene	7.54	91	74	Below Cal		89
51] m,p-Xylene	7.65	106	66	Below Cal		89
52] o-Xylene	8.02	106	26	Below Cal		100

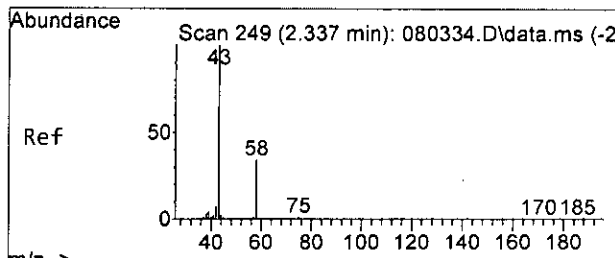
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120910.D  
 Acq On : 09 Dec 2022 12:25 pm  
 Operator : lm  
 Sample : 212059-01 rr  
 Misc : water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:54 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

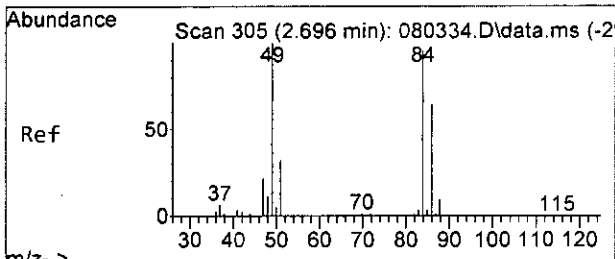
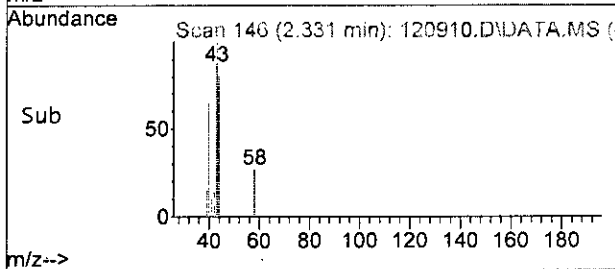
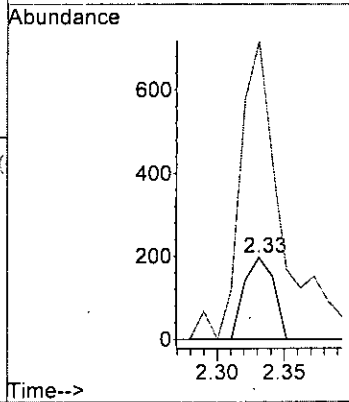
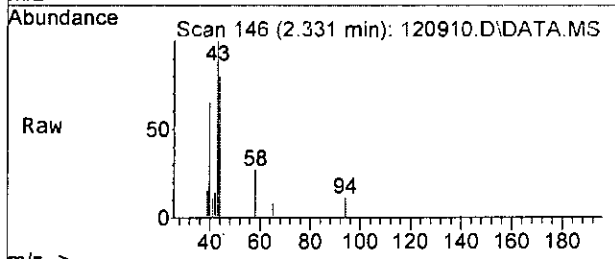






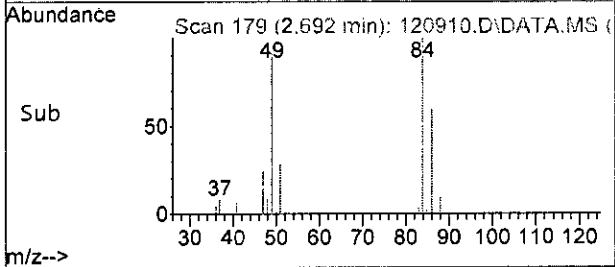
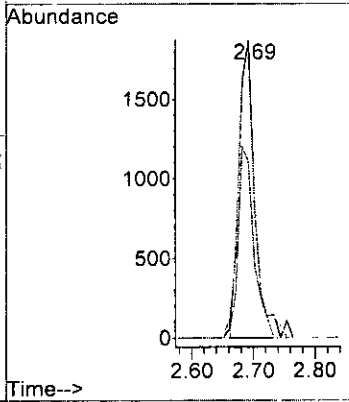
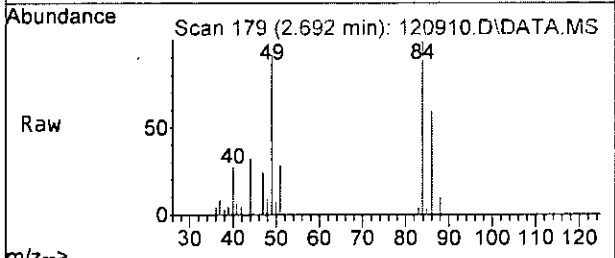
#11  
 Acetone  
 Concen: 3.001 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 120910.D  
 Acq: 09 Dec 2022 12:25 pm

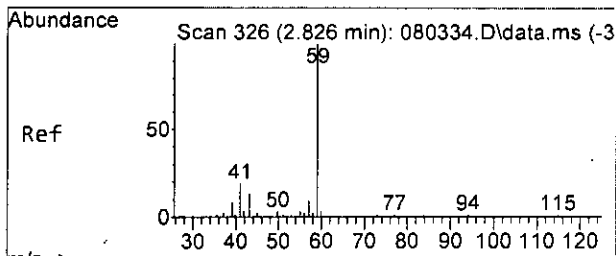
Tgt Ion: 58 Resp: 301  
 Ion Ratio Lower Upper  
 58 100  
 43 540.5 350.8 410.8#



#14  
 Methylene chloride  
 Concen: 0.635 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 120910.D  
 Acq: 09 Dec 2022 12:25 pm

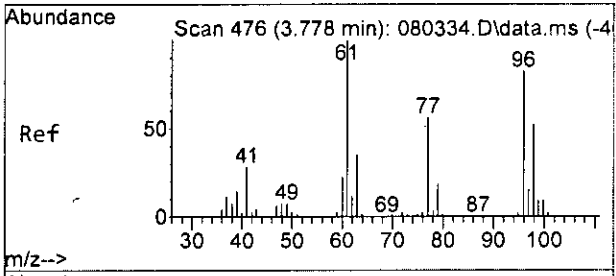
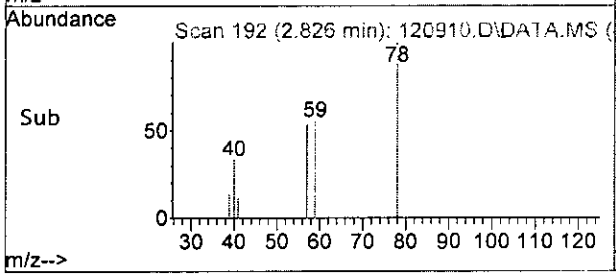
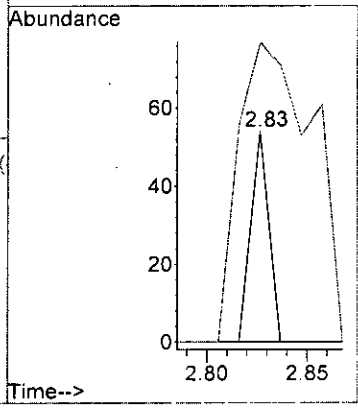
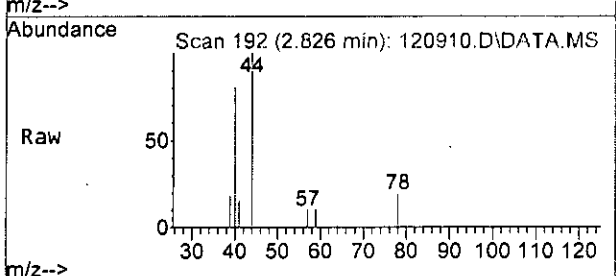
Tgt Ion: 84 Resp: 3446  
 Ion Ratio Lower Upper  
 84 100  
 86 59.1 41.2 101.2  
 49 91.1 69.2 129.2





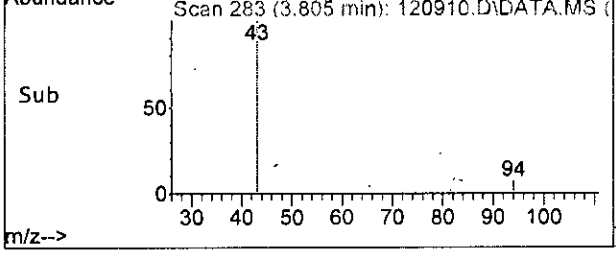
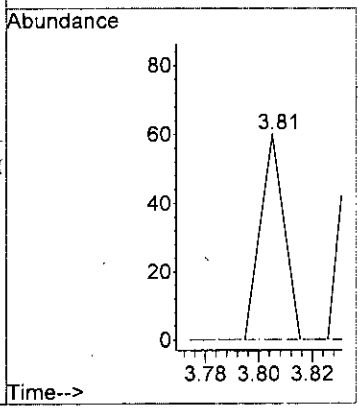
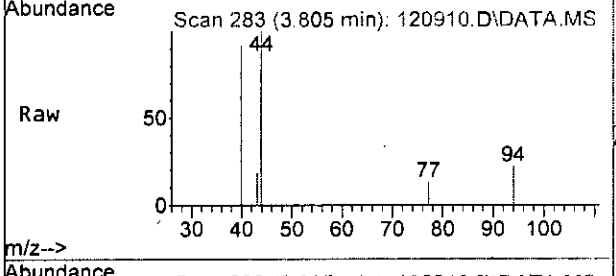
#15  
 t-Butyl alcohol (TBA)  
 Concen: 0.137 ppb  
 RT: 2.83 min Scan# 192  
 Delta R.T. 0.020 min  
 Lab File: 120910.D  
 Acq: 09 Dec 2022 12:25 pm

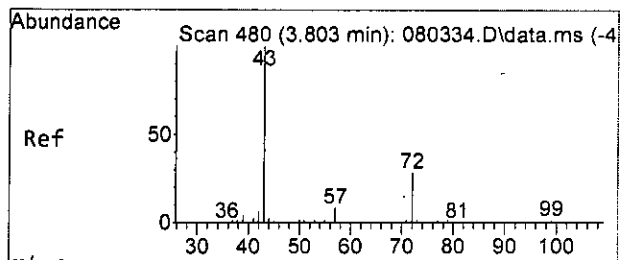
Tgt Ion: 59 Resp: 33  
 Ion Ratio Lower Upper  
 59 100  
 41 142.6 0.0 50.8#



#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.81 min Scan# 283  
 Delta R.T. 0.041 min  
 Lab File: 120910.D  
 Acq: 09 Dec 2022 12:25 pm

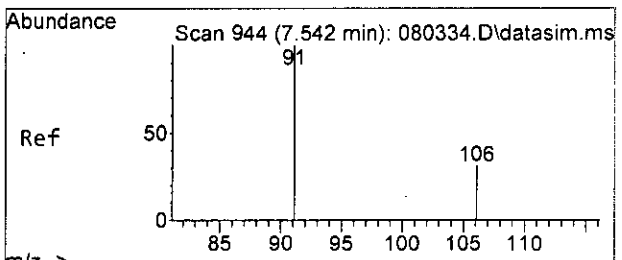
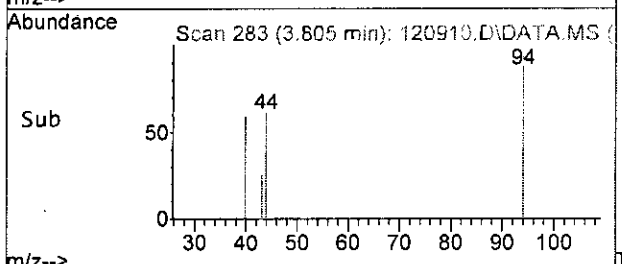
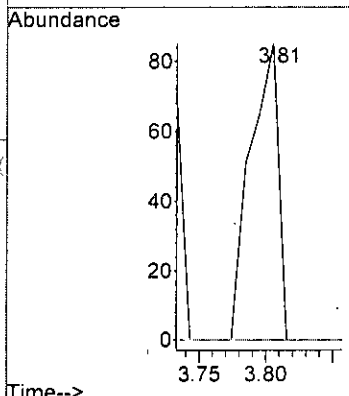
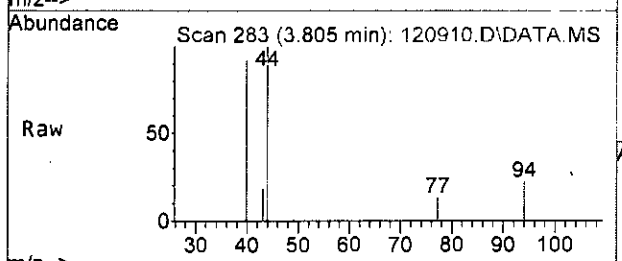
Tgt Ion: 77 Resp: 37  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 2.0 62.0#





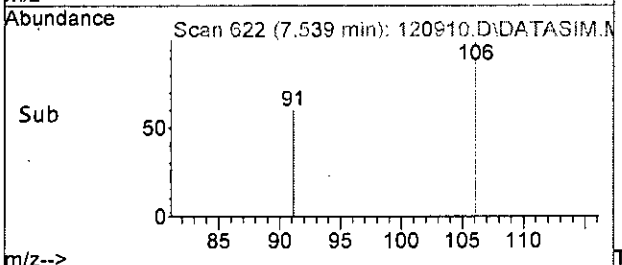
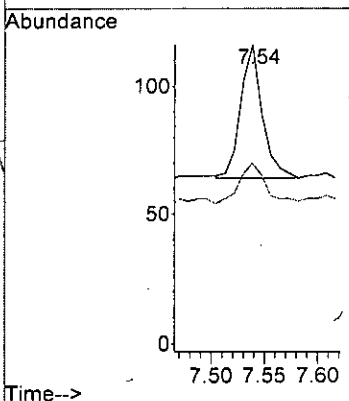
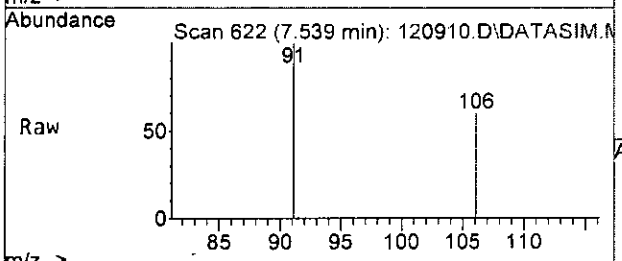
#24  
 2-Butanone (MEK)  
 Concen: 0.712 ppb  
 RT: 3.81 min Scan# 283  
 Delta R.T. 0.020 min  
 Lab File: 120910.D  
 Acq: 09 Dec 2022, 12:25 pm

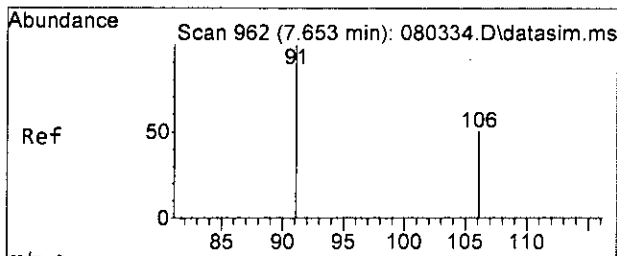
Tgt Ion: 43 Resp: 124  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 0.0 54.9  
 57 0.0 0.0 28.8



#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. -0.000 min  
 Lab File: 120910.D  
 Acq: 09 Dec 2022, 12:25 pm

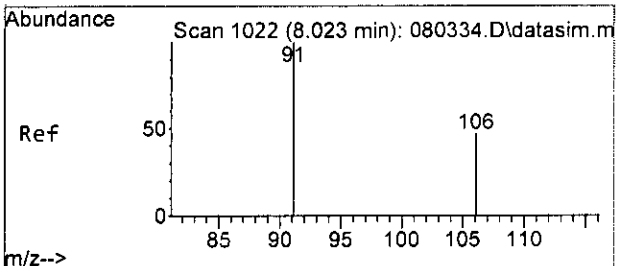
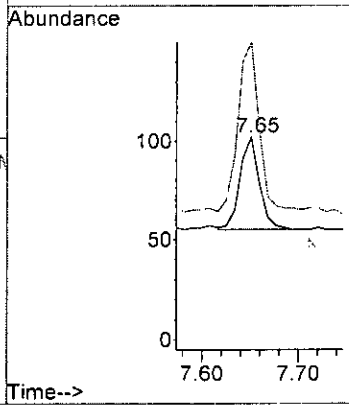
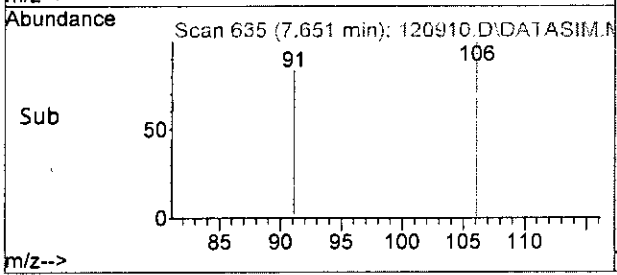
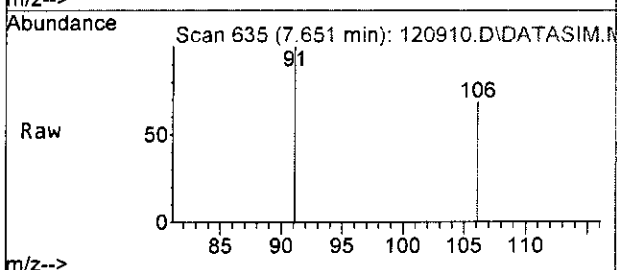
Tgt Ion: 91 Resp: 74  
 Ion Ratio Lower Upper  
 91 100  
 106 30.8 7.1 67.1





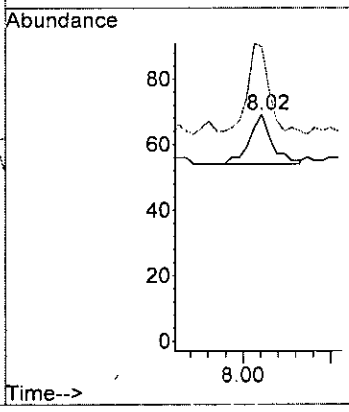
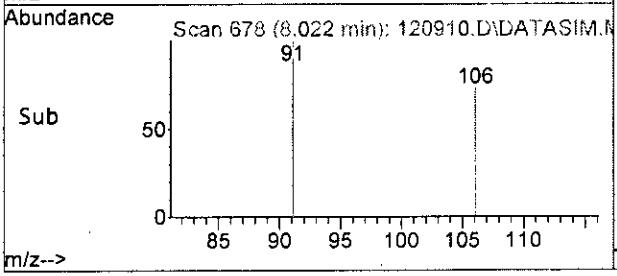
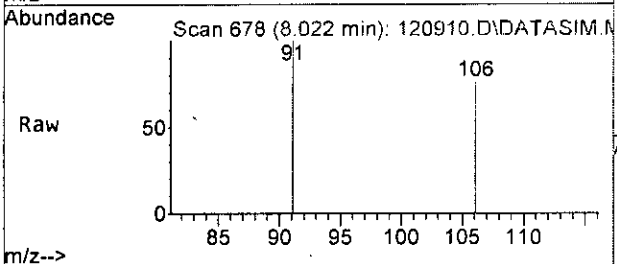
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: 120910.D  
 Acq: 09 Dec 2022 12:25 pm

Tgt Ion: 106 Resp: 66  
 Ion Ratio Lower Upper  
 106 100  
 91 183.0 138.1 198.1



#52  
 o-Xylene  
 Concen: Below Cal  
 RT: 8.02 min Scan# 678  
 Delta R.T. -0.000 min  
 Lab File: 120910.D  
 Acq: 09 Dec 2022 12:25 pm

Tgt Ion: 106 Resp: 26  
 Ion Ratio Lower Upper  
 106 100  
 91 173.3 143.9 203.9



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120910.D  
 Acq On : 09 Dec 2022 12:25 pm  
 Operator : lm  
 Sample : 212059-01 rr  
 Misc : water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:54 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.75	96	108365	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	69593	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	36832	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.17	113	27634	8.005	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	80.00%
30) 1,2-Dichloroethane-d4	4.45	102	5674	8.769	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	87.70%
35) Toluene-d8	6.11	98	90522	9.293	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	92.90%
57) 4-Bromofluorobenzene	8.51	95	28682	12.851	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	128.50%
<b>Target Compounds</b>						
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.26	50	3030	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) Bromomethane	0.00		0	N.D.		
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	0.00		0	N.D.		
11) Acetone	2.33	58	301	3.001	ppb #	30
12) 1,1-Dichloroethene	0.00		0	N.D.	d	
13) Hexane	0.00		0	N.D.		
14) Methylene chloride	2.69	84	3446	0.635	ppb	89
15) t-Butyl alcohol (TBA)	2.83	59	33	0.137	ppb #	1
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17) trans-1,2-Dichloroethene	0.00		0	N.D.		
18) Diisopropyl ether (DIPE)	3.35	45	64	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.81	77	37	Below Cal	#	43
22) cis-1,2-Dichloroethene	0.00		0	N.D.		
23) Chloroform	0.00		0	N.D.		
24) 2-Butanone (MEK)	3.81	43	124	0.712	ppb	57
25) t-Amyl methyl ether (T...)	0.00		0	N.D.		
26) 1,2-Dichloroethane (EDC)	4.53	62	63	N.D.		
27) 1,1,1-Trichloroethane	0.00		0	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31) Benzene	0.00		0	N.D.		
32) Trichloroethene	0.00		0	N.D.		
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120910.D  
 Acq On : 09 Dec 2022 12:25 pm  
 Operator : lm  
 Sample : 212059-01 rr  
 Misc : water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS13

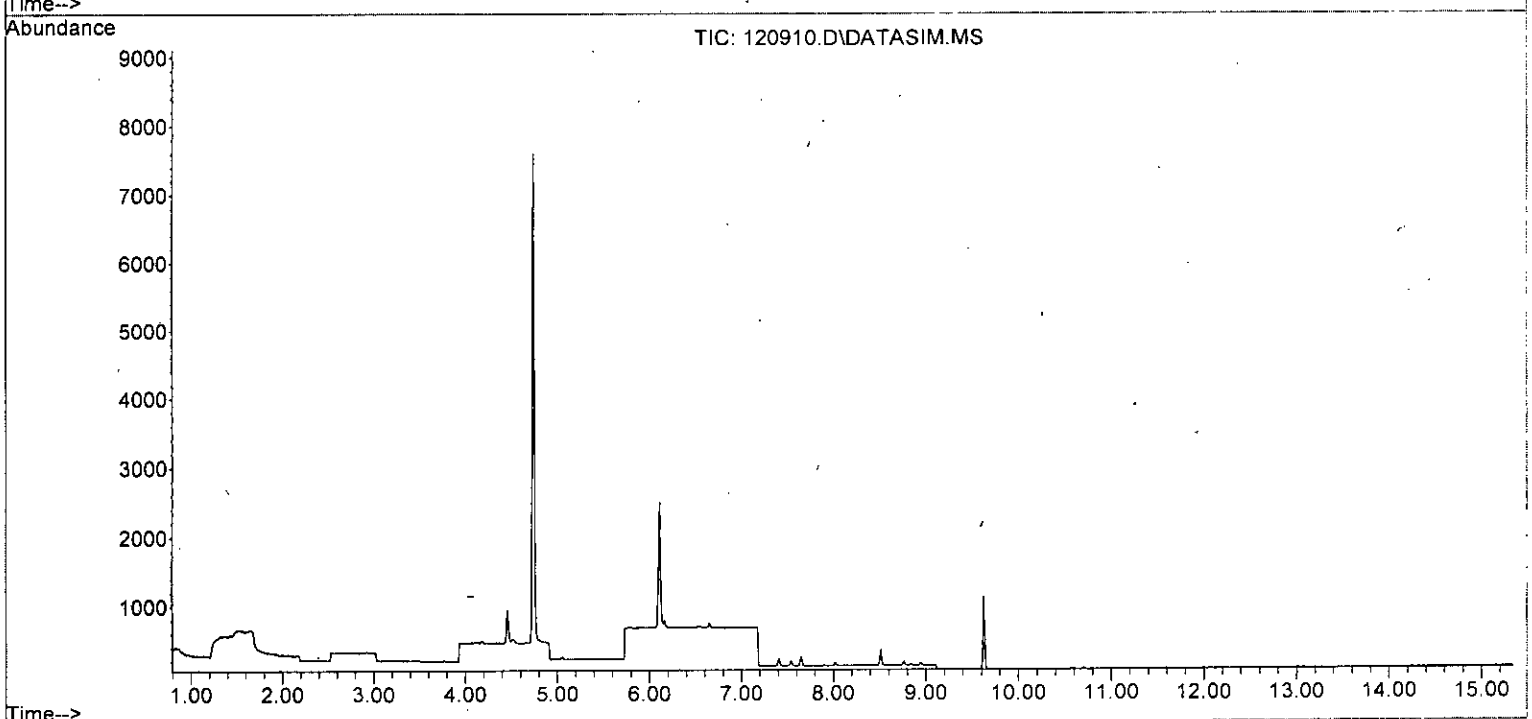
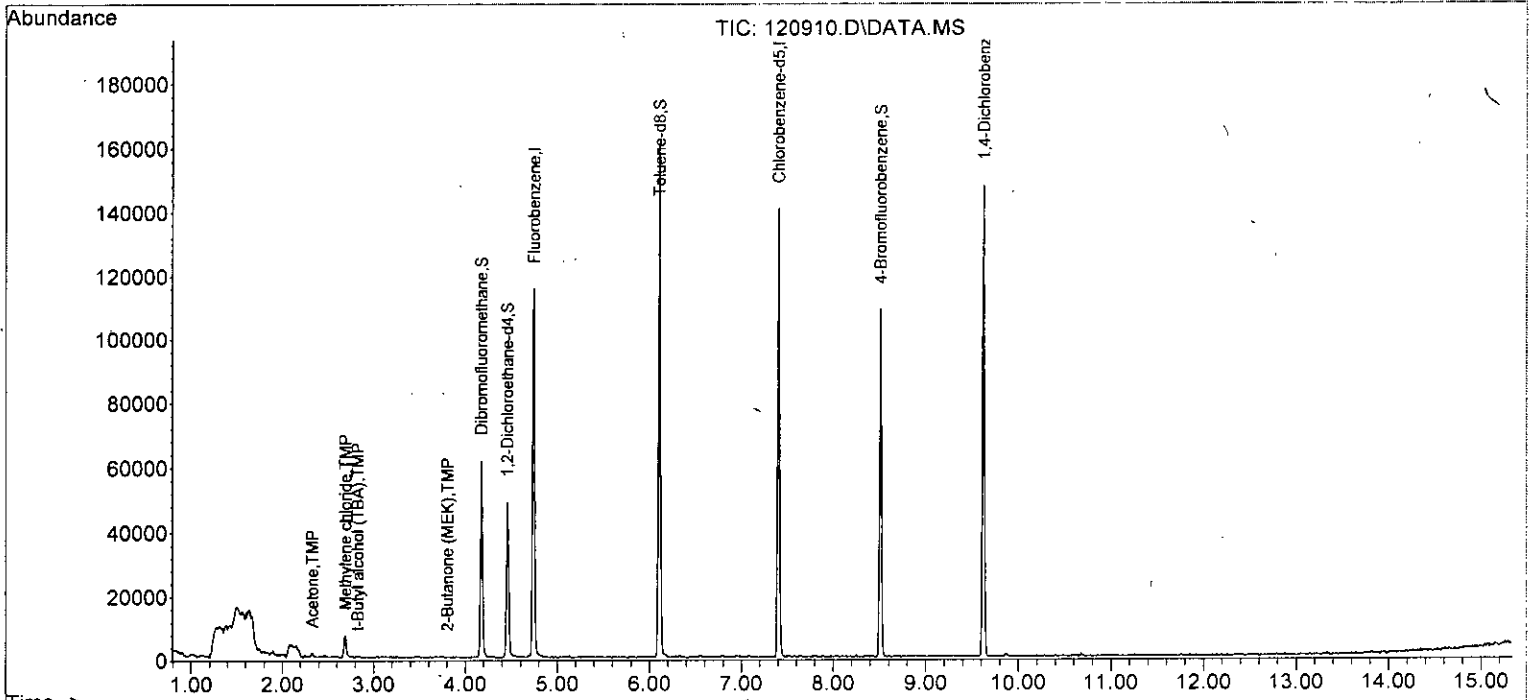
Quant Time: Dec 12 07:58:54 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40) Toluene	6.16	92	45		N.D.	
41) trans-1,3-Dichloropropene	6.24	75	44		N.D.	
42) 1,1,2-Trichloroethane	6.53	83	40		N.D.	
43) 2-Hexanone	6.83	43	48		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45) Tetrachloroethene	6.65	164	29		N.D.	
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	74	Below Cal		89
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.65	106	66	Below Cal		89
52] o-Xylene	8.02	106	26	Below Cal		100
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	8.37	105	29		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.76	91	78		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.76	91	78		N.D.	
64) 4-Chlorotoluene	8.76	91	78		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.31	105	35		N.D.	
67) sec-Butylbenzene	9.47	105	72		N.D.	
68) p-Isopropyltoluene	0.00		0		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.83	128	37		N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
Data File : 120910.D  
Acq On : 09 Dec 2022 12:25 pm  
Operator : lm  
Sample : 212059-01 rr  
Misc : water  
ALS Vial : 6 Sample Multiplier: 1  
InstName : GCMS13

Quant Time: Dec 12 07:58:54 2022  
Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Thu Dec 01 12:09:50 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080322.M



Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120722.D  
 Acq On : 07 Dec 2022 03:49 pm  
 Operator : LM  
 Sample : 212059-02  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:00 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

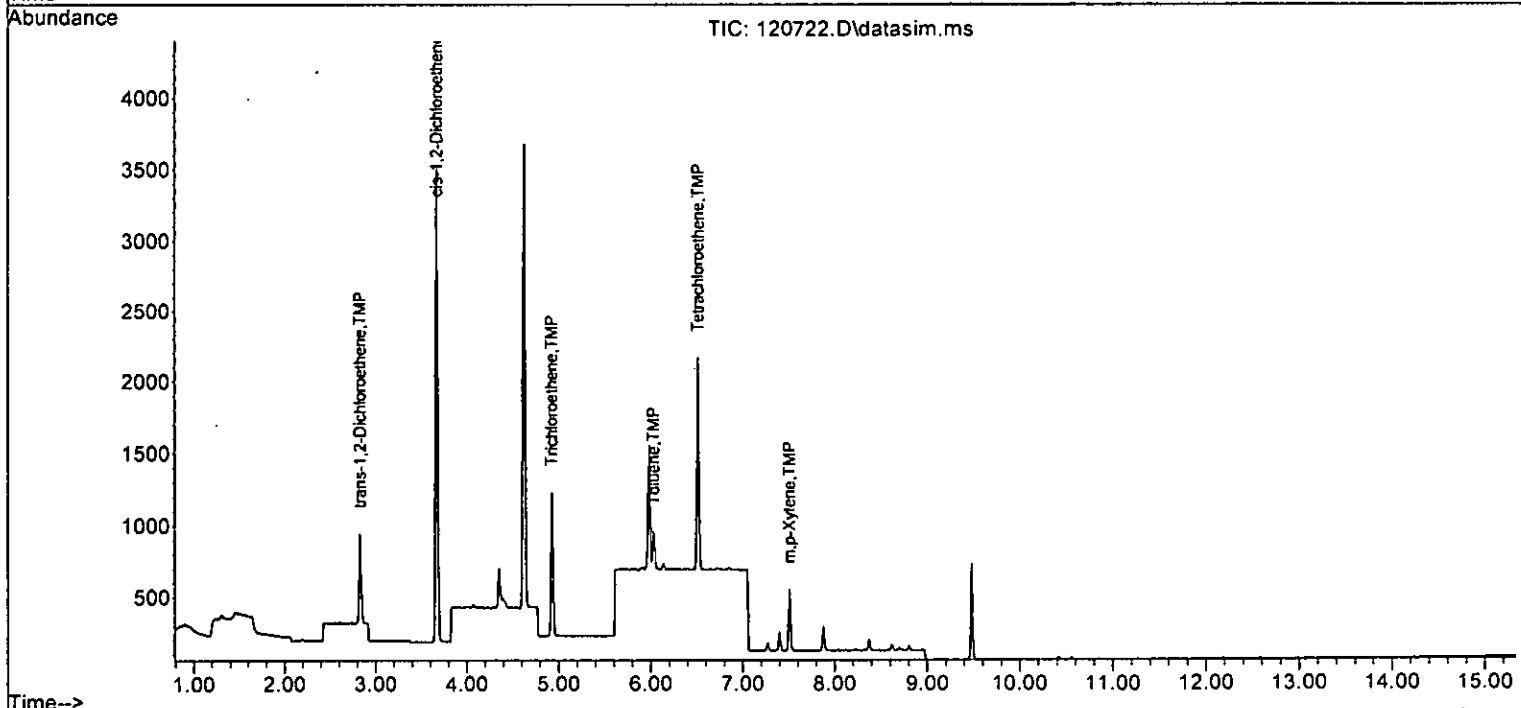
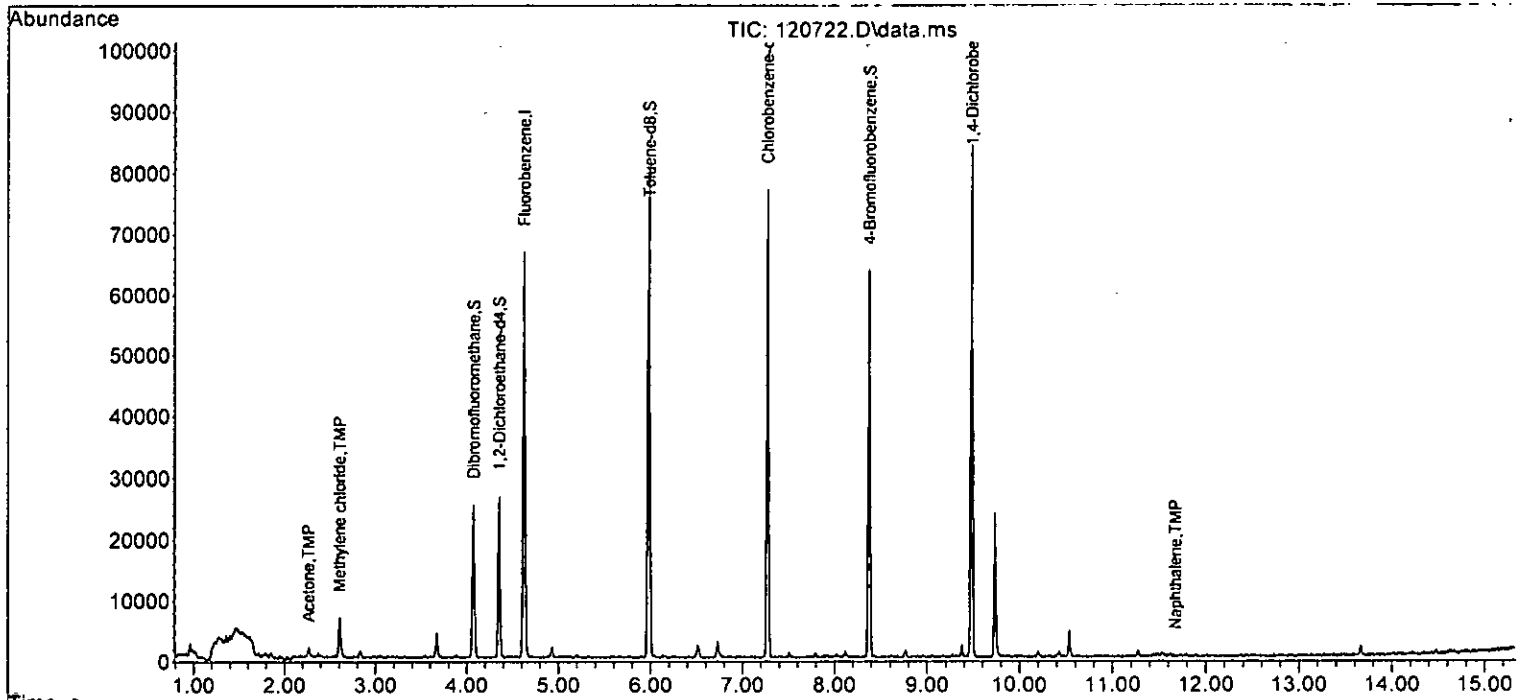
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	43595	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35440	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19472	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11541	10.045	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.50%		
30) 1,2-Dichloroethane-d4	4.36	102	2449	9.424	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	94.20%		
35) Toluene-d8	5.98	98	42240	9.933	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	99.30%		
57) 4-Bromofluorobenzene	8.38	95	16624	9.881	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	98.80%		
Target Compounds							
							Qvalue
5) Chloromethane	1.23	50	324	Below Cal			95
6) Vinyl chloride	1.30	62	79	Below Cal			61
7) Bromomethane	1.52	94	238	Below Cal	#		18
11) Acetone	2.27	58	519	3.815	ppb	#	73
14) Methylene chloride	2.61	84	2213	1.190	ppb	#	77
17) trans-1,2-Dichloroethene	2.83	96	265	0.194	ppb		85
22] cis-1,2-Dichloroethene	3.67	96	1568	1.209	ppb		97
24) 2-Butanone (MEK)	3.71	43	258	Below Cal			63
26] 1,2-Dichloroethane (EDC)	4.42	62	51	Below Cal			95
32] Trichloroethene	4.93	95	430	0.280	ppb		97
40] Toluene	6.03	92	152	0.022	ppb		96
45] Tetrachloroethene	6.51	164	504	0.379	ppb		99
49] Ethylbenzene	7.40	91	142	Below Cal			100
51] m,p-Xylene	7.51	106	191	0.030	ppb		98
75) Naphthalene	11.68	128	128	0.027	ppb		68

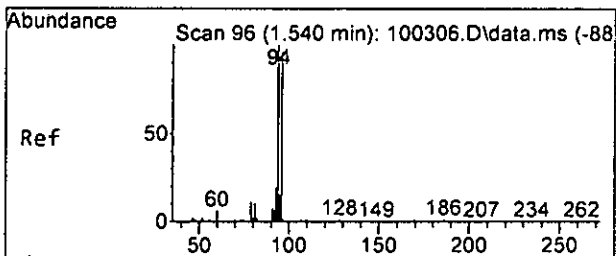
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120722.D  
 Acq On : 07 Dec 2022 03:49 pm  
 Operator : LM  
 Sample : 212059-02  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

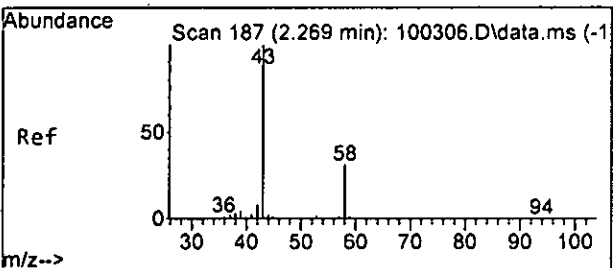
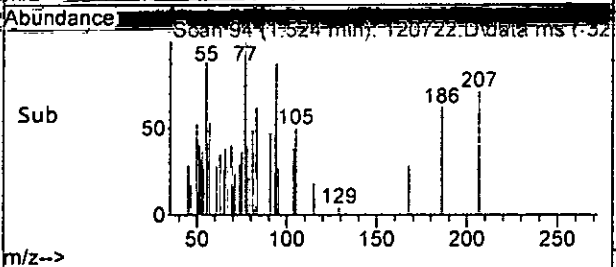
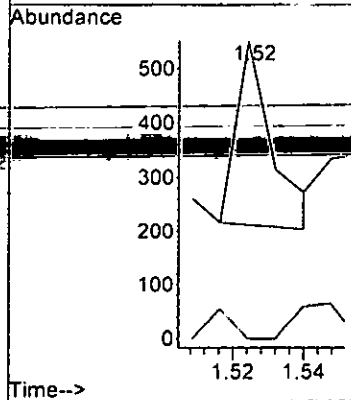
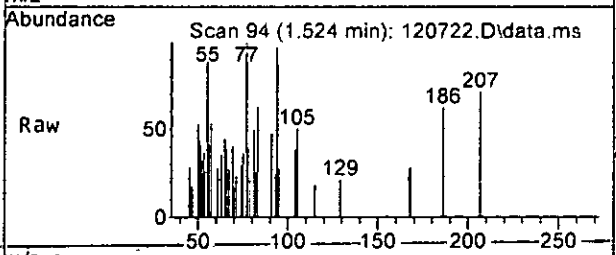
Quant Time: Dec 08 07:50:00 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





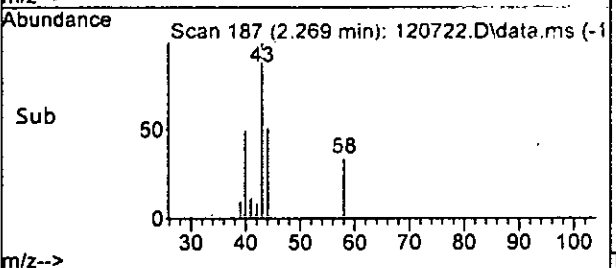
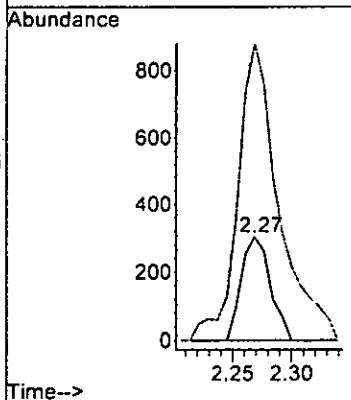
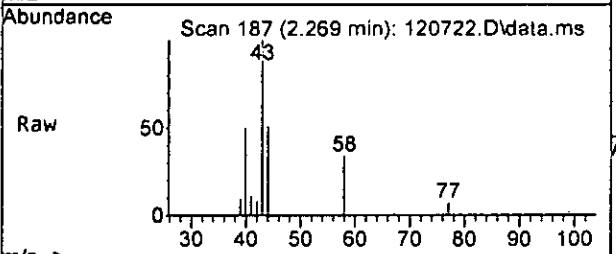
#7  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.52 min Scan# 94  
 Delta R.T. -0.016 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

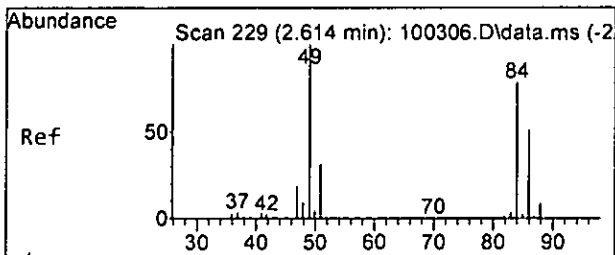
Tgt Ion: 94 Resp: 238  
 Ion Ratio Lower Upper  
 94 100  
 96 0.0 33.9 93.9#



#11  
 Acetone  
 Concen: 3.815 ppb  
 RT: 2.27 min Scan# 187  
 Delta R.T. -0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 58 Resp: 519  
 Ion Ratio Lower Upper  
 58 100  
 43 407.3 319.7 379.7#

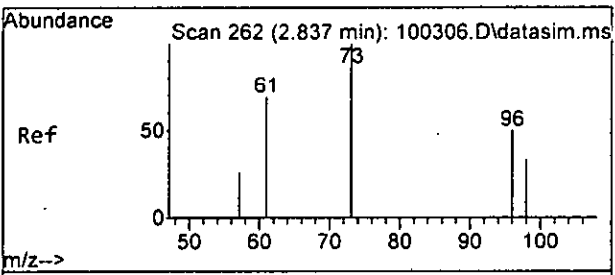
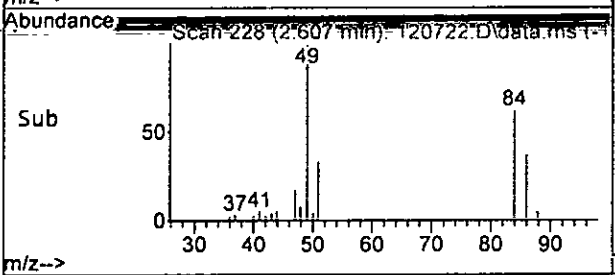
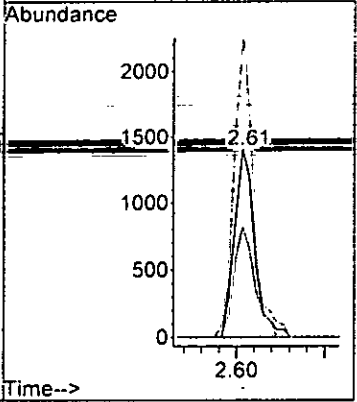
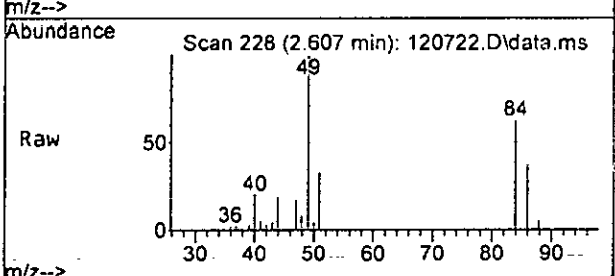




#14  
 Methylene chloride  
 Concen: 1.190 ppb  
 RT: 2.61 min Scan# 228  
 Delta R.T. -0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 84 Resp: 2213

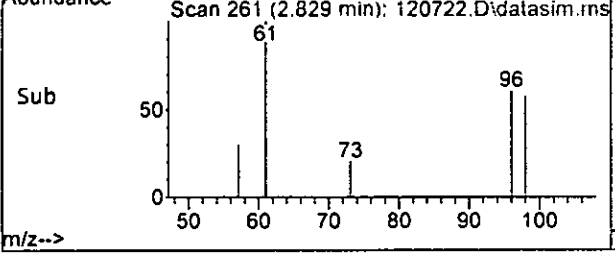
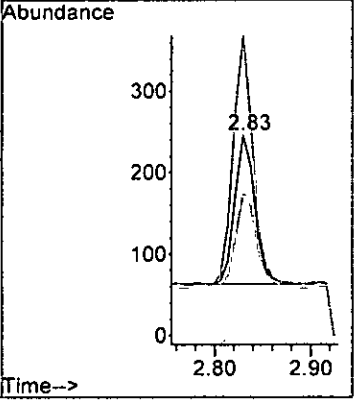
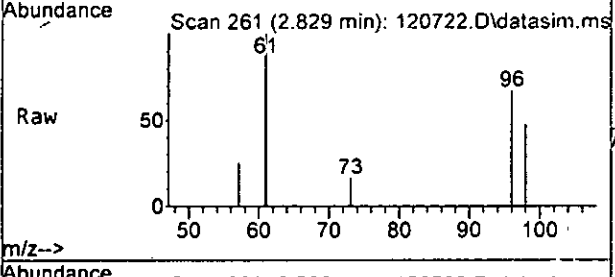
Ion	Ratio	Lower	Upper
84	100		
86	58.8	30.4	90.4
49	160.5	93.0	153.0#

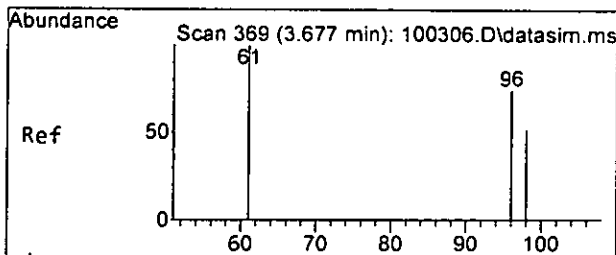


#17  
 trans-1,2-Dichloroethene  
 Concen: 0.194 ppb  
 RT: 2.83 min Scan# 261  
 Delta R.T. -0.001 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 96 Resp: 265

Ion	Ratio	Lower	Upper
96	100		
61	166.7	113.1	173.1
98	62.3	38.0	98.0

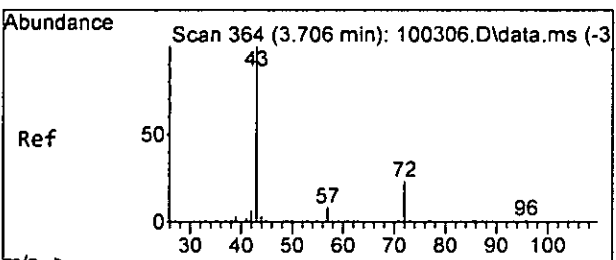
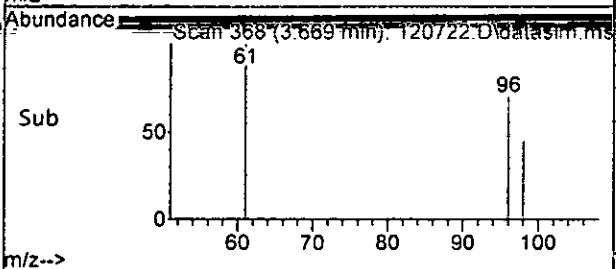
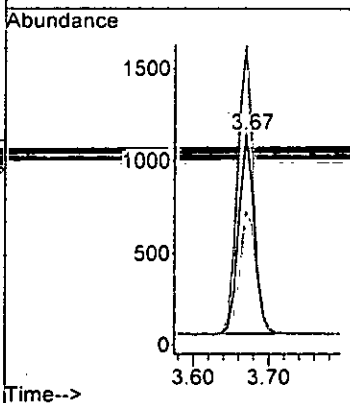
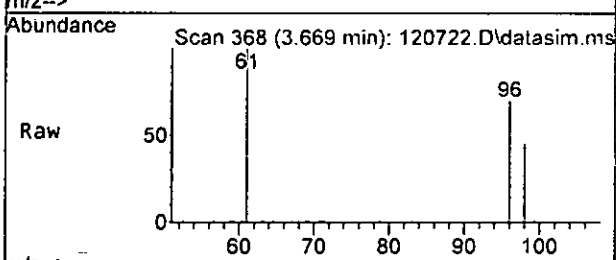




#22  
 cis-1,2-Dichloroethene  
 Concen: 1.209 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. 0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 96 Resp: 1568

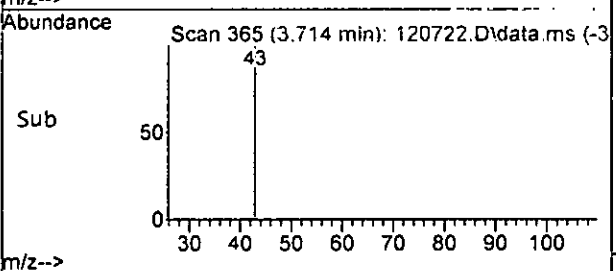
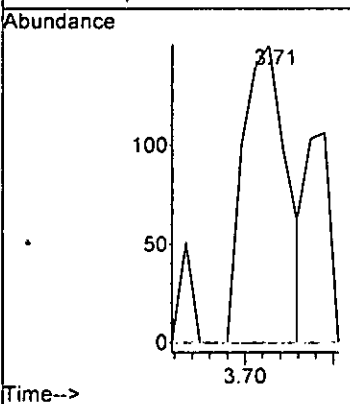
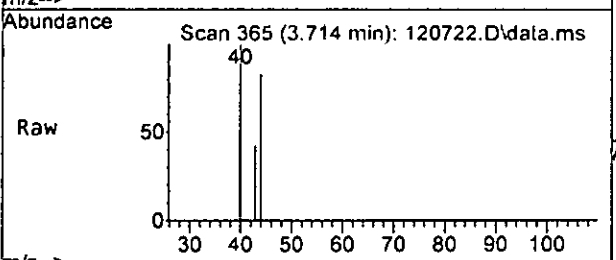
Ion	Ratio	Lower	Upper
96	100		
61	145.3	116.5	176.5
98	61.8	36.7	96.7

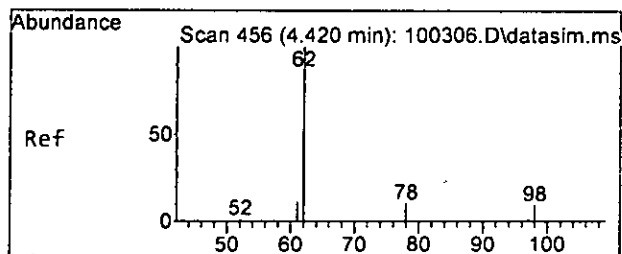


#24  
 2-Butanone (MEK)  
 Concen: Below Cal  
 RT: 3.71 min Scan# 365  
 Delta R.T. 0.008 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 43 Resp: 258

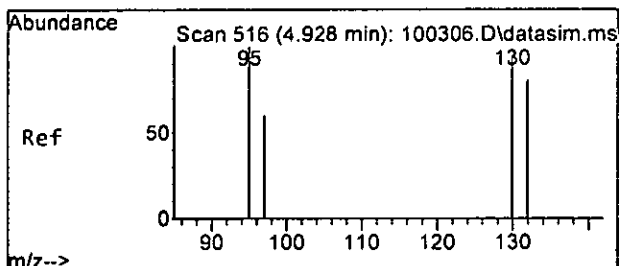
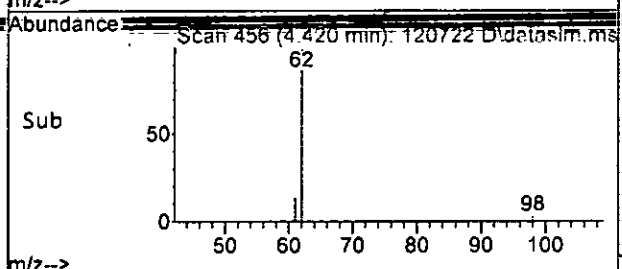
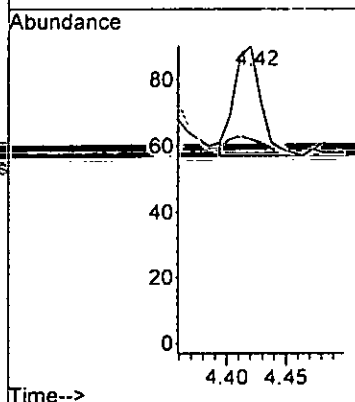
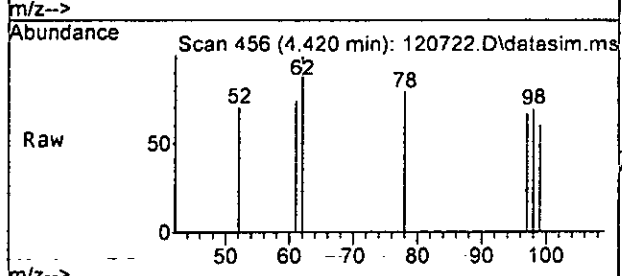
Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	49.9
57	0.0	0.0	28.2





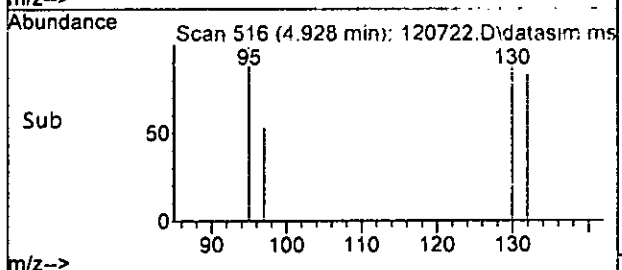
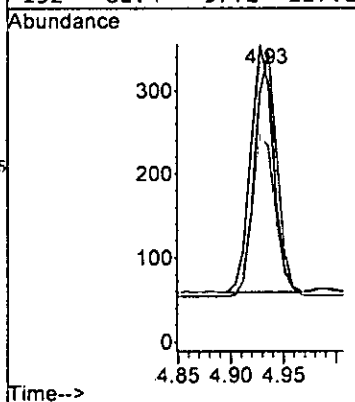
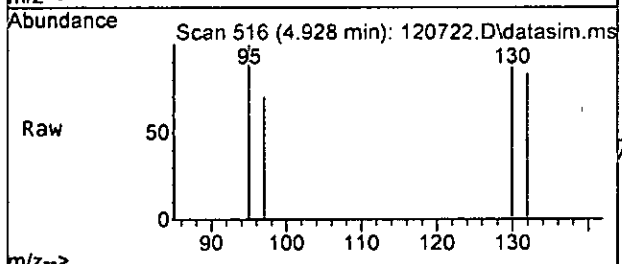
#26  
 1,2-Dichloroethane (EDC)  
 Concen: Below Cal  
 RT: 4.42 min Scan# 456  
 Delta R.T. -0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

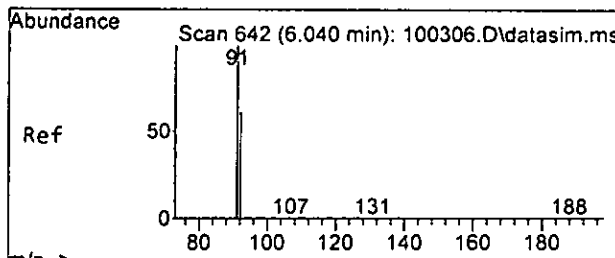
Tgt Ion: 62 Resp: 51  
 Ion Ratio Lower Upper  
 62 100  
 98 9.1 0.0 37.4



#32  
 Trichloroethene  
 Concen: 0.280 ppb  
 RT: 4.93 min Scan# 516  
 Delta R.T. -0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

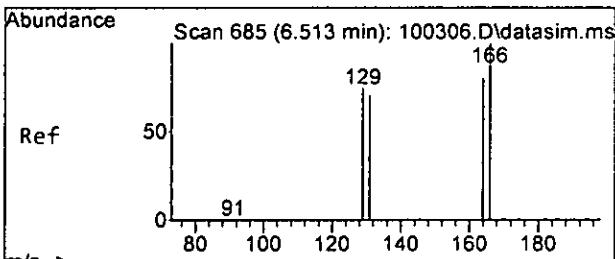
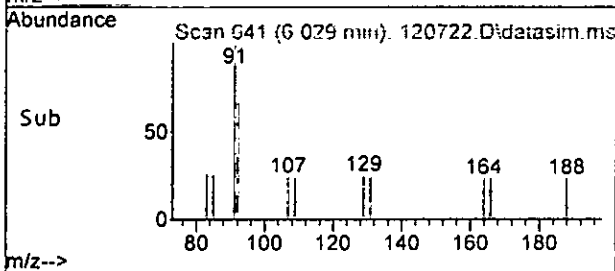
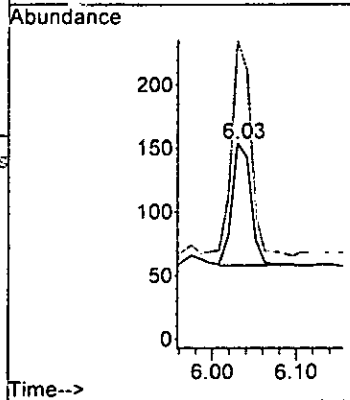
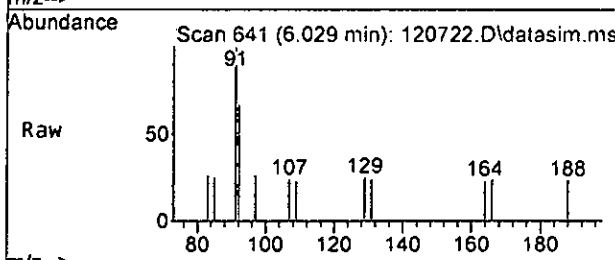
Tgt Ion: 95 Resp: 430  
 Ion Ratio Lower Upper  
 95 100  
 97 63.5 33.6 93.6  
 130 92.2 65.5 125.5  
 132 82.4 57.2 117.2





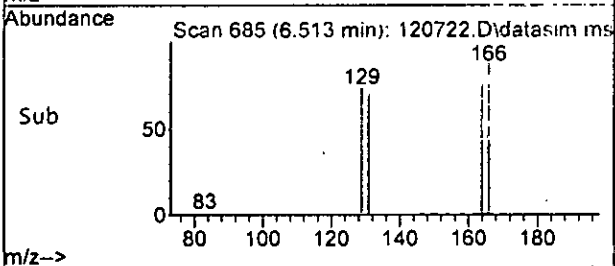
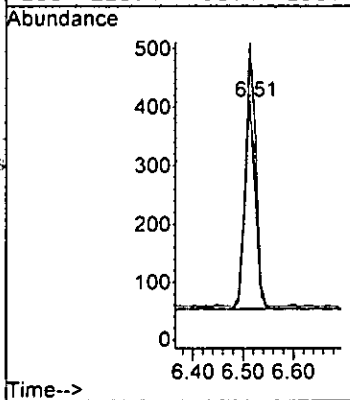
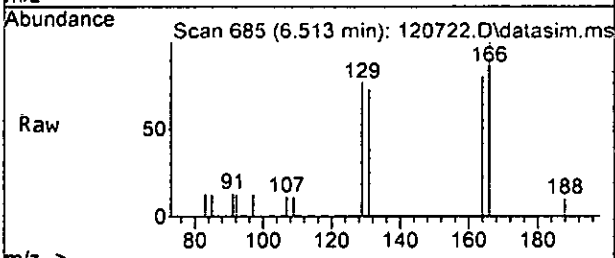
#40  
 Toluene  
 Concen: 0.022 ppb  
 RT: 6.03 min Scan# 641  
 Delta R.T. -0.001 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

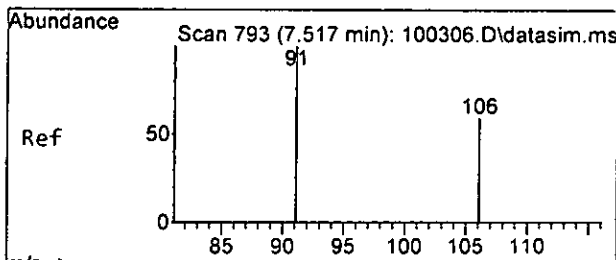
Tgt Ion: 92 Resp: 152  
 Ion Ratio Lower Upper  
 92 100  
 91 172.9 148.8 208.8



#45  
 Tetrachloroethene  
 Concen: 0.379 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. 0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

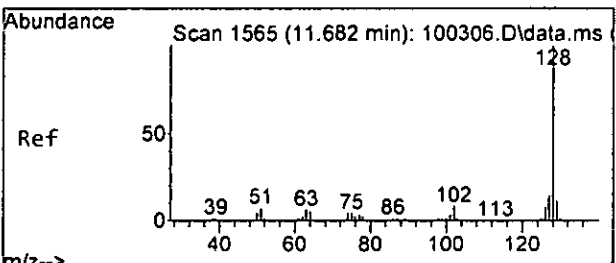
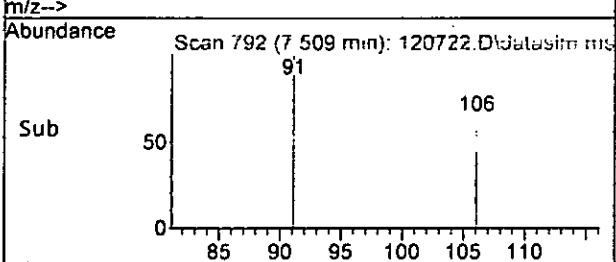
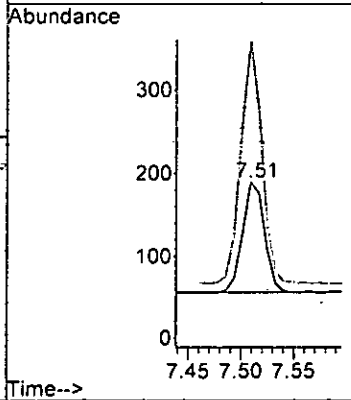
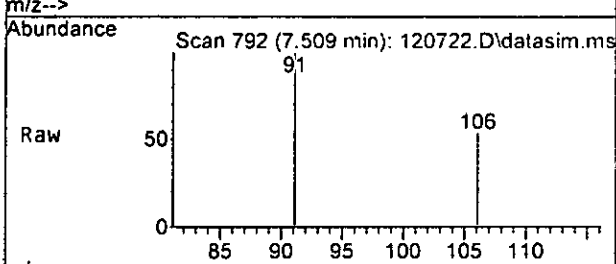
Tgt Ion: 164 Resp: 504  
 Ion Ratio Lower Upper  
 164 100  
 129 93.8 62.5 122.5  
 131 89.0 60.3 120.3  
 166 128.4 98.4 158.4





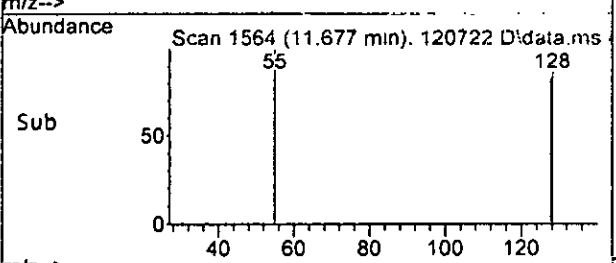
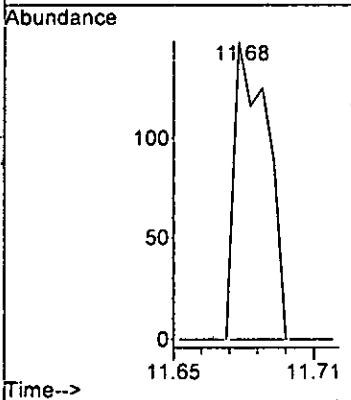
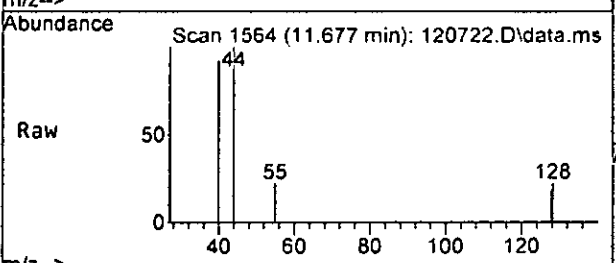
#51  
 m,p-Xylene  
 Concen: 0.030 ppb  
 RT: 7.51 min Scan# 792  
 Delta R.T. -0.000 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 106 Resp: 191  
 Ion Ratio Lower Upper  
 106 100  
 91 218.8 191.7 251.7



#75  
 Naphthalene  
 Concen: 0.027 ppb  
 RT: 11.68 min Scan# 1564  
 Delta R.T. -0.005 min  
 Lab File: 120722.D  
 Acq: 07 Dec 2022 03:49 pm

Tgt Ion: 128 Resp: 128  
 Ion Ratio Lower Upper  
 128 100  
 129 0.0 0.0 41.7  
 127 0.0 0.0 43.5



Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120722.D  
 Acq On : 07 Dec 2022 03:49 pm  
 Operator : LM  
 Sample : 212059-02  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:50:00 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	43595	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35440	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19472	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	11541	10.045	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	100.50%		
30) 1,2-Dichloroethane-d4	4.36	102	2449	9.424	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery =	94.20%		
35) Toluene-d8	5.98	98	42240	9.933	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery =	99.30%		
57) 4-Bromofluorobenzene	8.38	95	16624	9.881	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery =	98.80%		
<b>Target Compounds</b>						
2) Ethanol	0.00		0	N.D.		Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.23	50	324	Below Cal		95
6] Vinyl chloride	1.30	62	79	Below Cal		61
7) Bromomethane	1.52	94	238	Below Cal #		18
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	2.40	45	268	No Calib		
11) Acetone	2.27	58	519	3.815 ppb #		73
12) 1,1-Dichloroethene	0.00		0	N.D.		
13) Hexane	0.00		0	N.D.		
14) Methylene chloride	2.61	84	2213	1.190 ppb #		77
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17] trans-1,2-Dichloroethene	2.83	96	265	0.194 ppb		85
18) Diisopropyl ether (DIPE)	0.00		0	N.O.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	0.00		0	N.D.		
22] cis-1,2-Dichloroethene	3.67	96	1568	1.209 ppb		97
23) Chloroform	0.00		0	N.D.		
24) 2-Butanone (MEK)	3.71	43	258	Below Cal		63
25) t-Amyl methyl ether (T...)	0.00		0	N.D.		
26] 1,2-Dichloroethane (EDC)	4.42	62	51	Below Cal		95
27) 1,1,1-Trichloroethane	0.00		0	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31) Benzene	4.39	78	82	N.D.		
32] Trichloroethene	4.93	95	430	0.280 ppb		97
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		



Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120722.D  
 Acq On : 07 Dec 2022 03:49 pm  
 Operator : LM  
 Sample : 2120S9-02  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

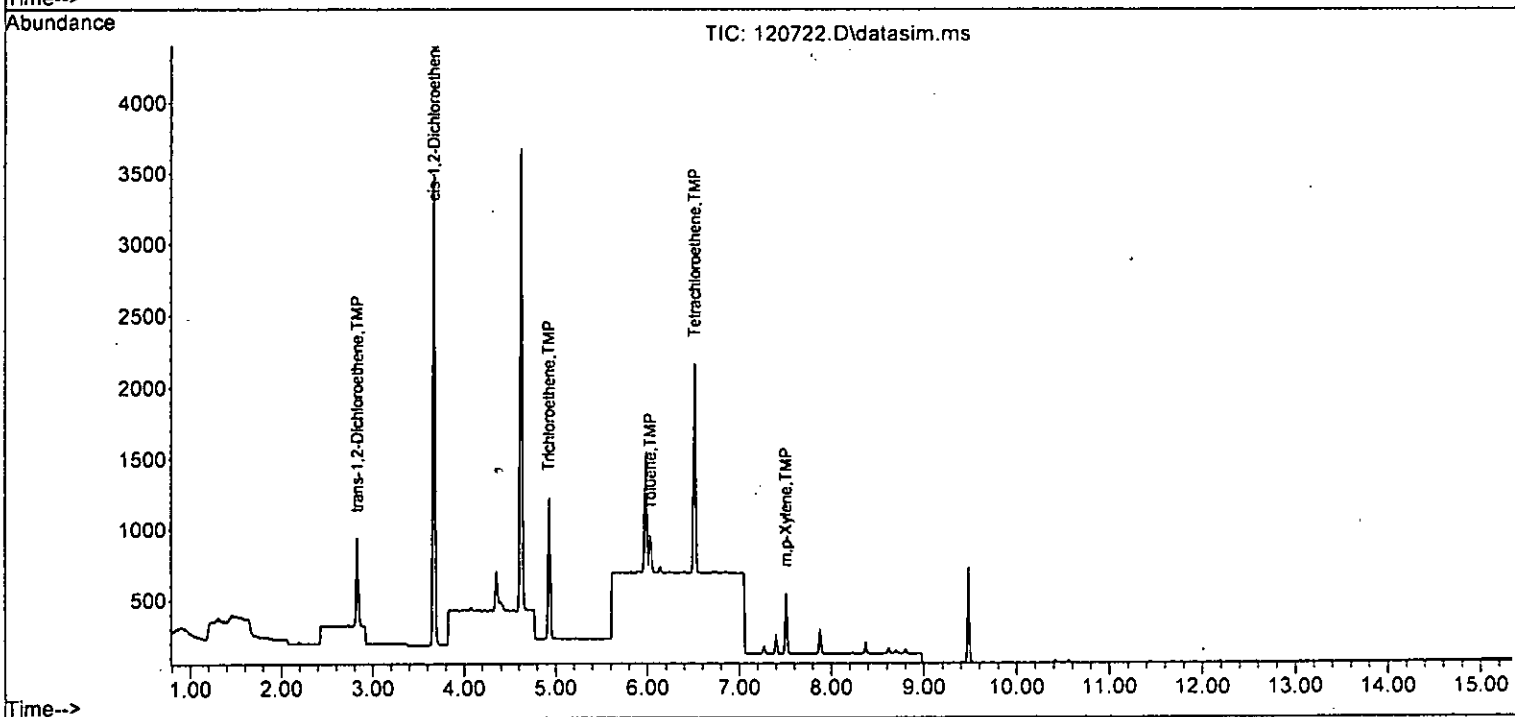
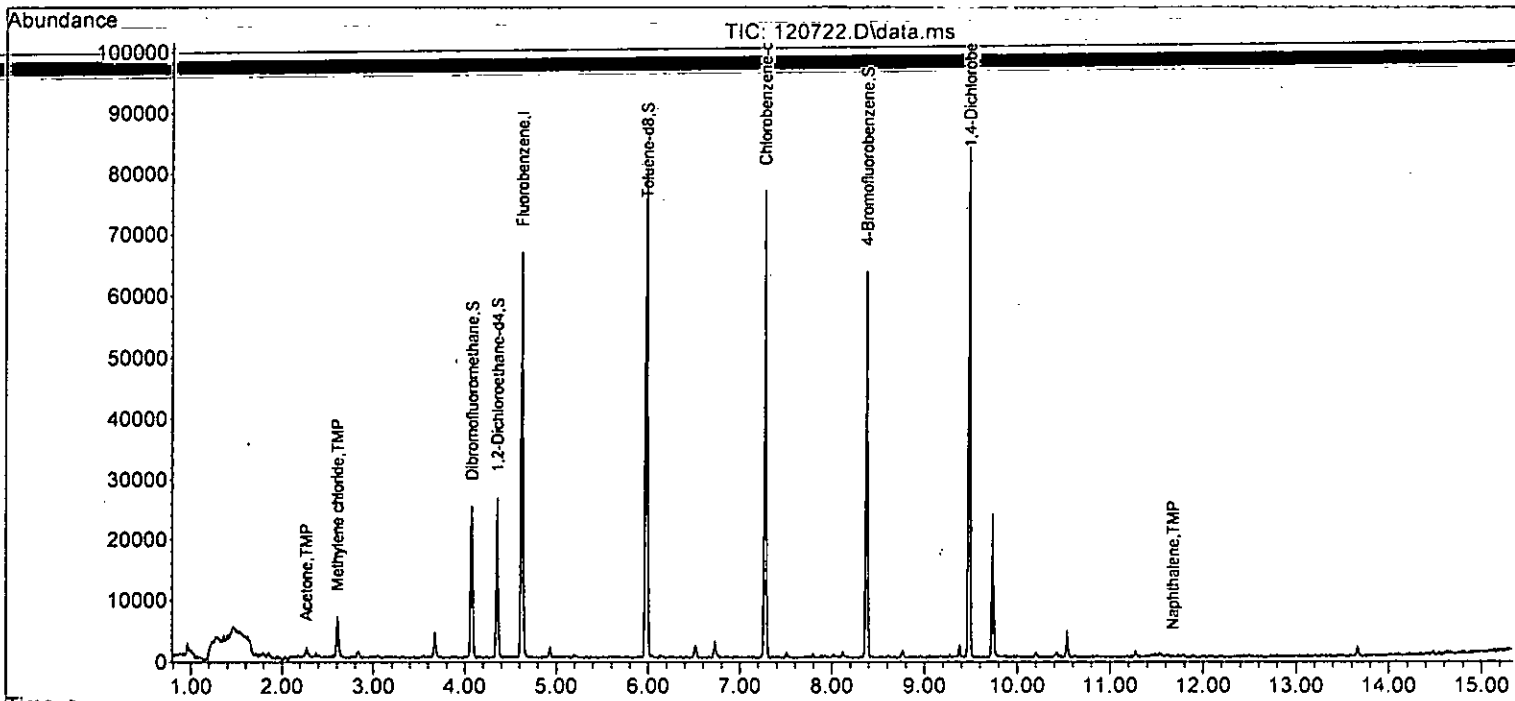
Quant Time: Dec 08 07:50:00 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.03	92	152	0.022	ppb	96
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D.	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.51	164	504	0.379	ppb	99
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.40	91	142		Below Cal	100
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.51	106	191	0.030	ppb	98
52) o-Xylene	7.88	106	76		N.D.	
53) Styrene	7.89	104	61		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.62	91	108		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.62	91	108		N.D.	
64) 4-Chlorotoluene	8.62	91	108		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.16	105	133		N.D.	
67) sec-Butylbenzene	9.16	105	133		N.D.	
68) p-Isopropyltoluene	0.00		0		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.68	128	128	0.027	ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
Data File : 120722.D  
Acq On : 07 Dec 2022 03:49 pm  
Operator : LM  
Sample : 212059-02  
Misc : water  
ALS Vial : 18 Sample Multiplier: 1  
InstName : GCMS11

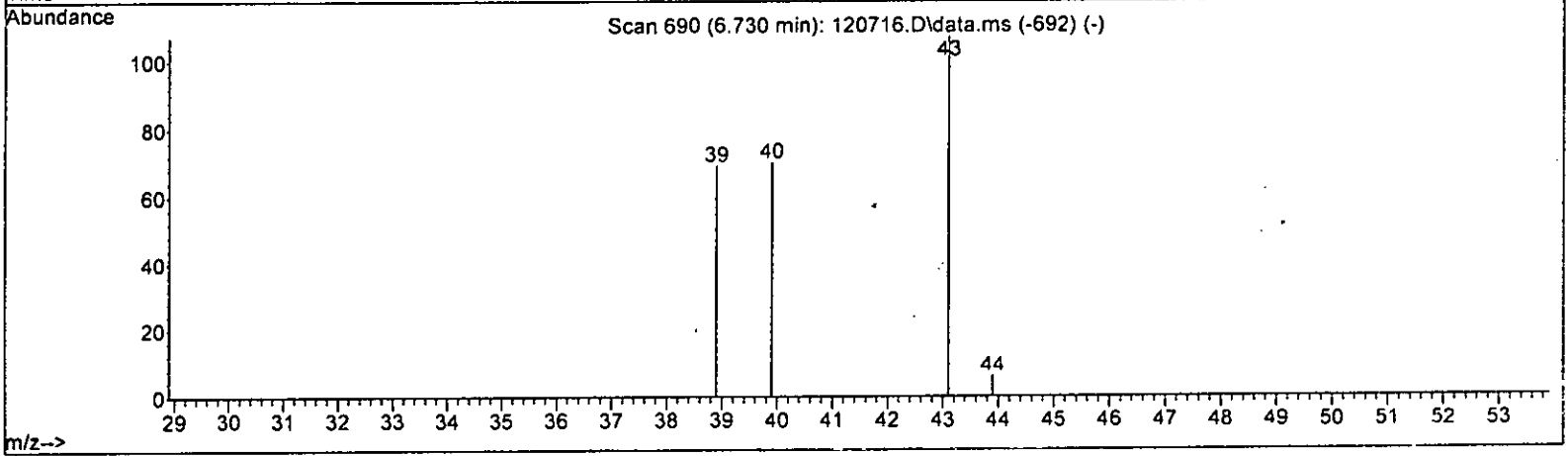
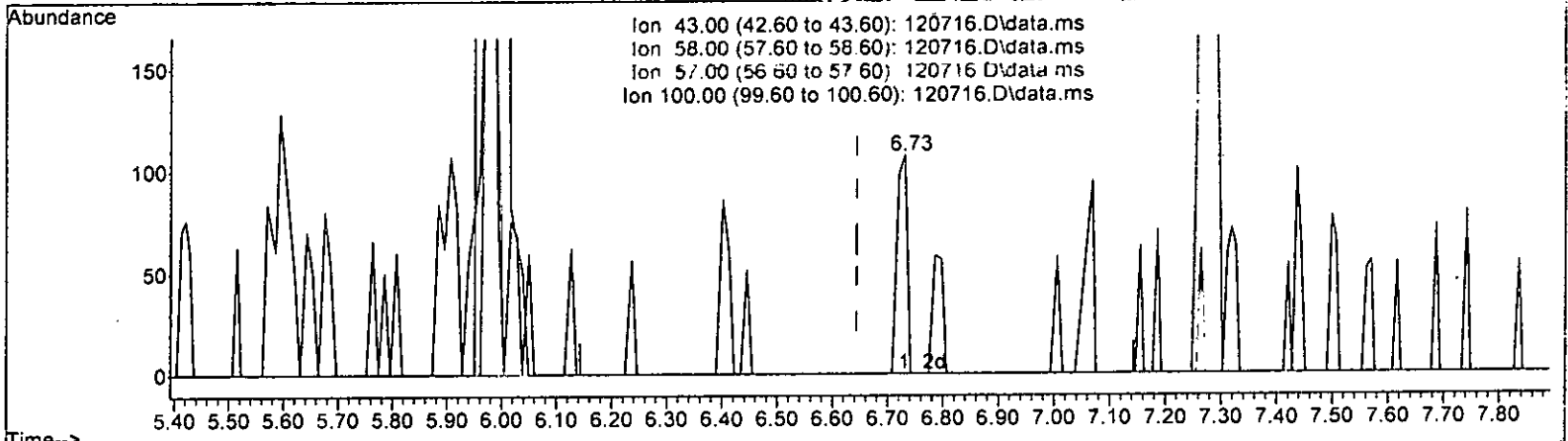
Quant Time: Dec 08 07:50:00 2022  
Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Mon Dec 05 13:11:58 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120716.D  
 Acq On : 07 Dec 2022 01:28 pm  
 Operator : LM  
 Sample : 212059-03  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 07 14:43:21 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120716.D\data.ms

(43) 2-Hexanone (TMP)		
6.730min (+ 0.087)	0.121 ppb	
response	135	
Ion	Exp%	Act%
43.00	100.00	100.00
58.00	56.00	0.00#
57.00	21.00	0.00
100.00	10.90	0.00

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120716.D  
 Acq On : 07 Dec 2022 01:28 pm  
 Operator : LM  
 Sample : 212059-03  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

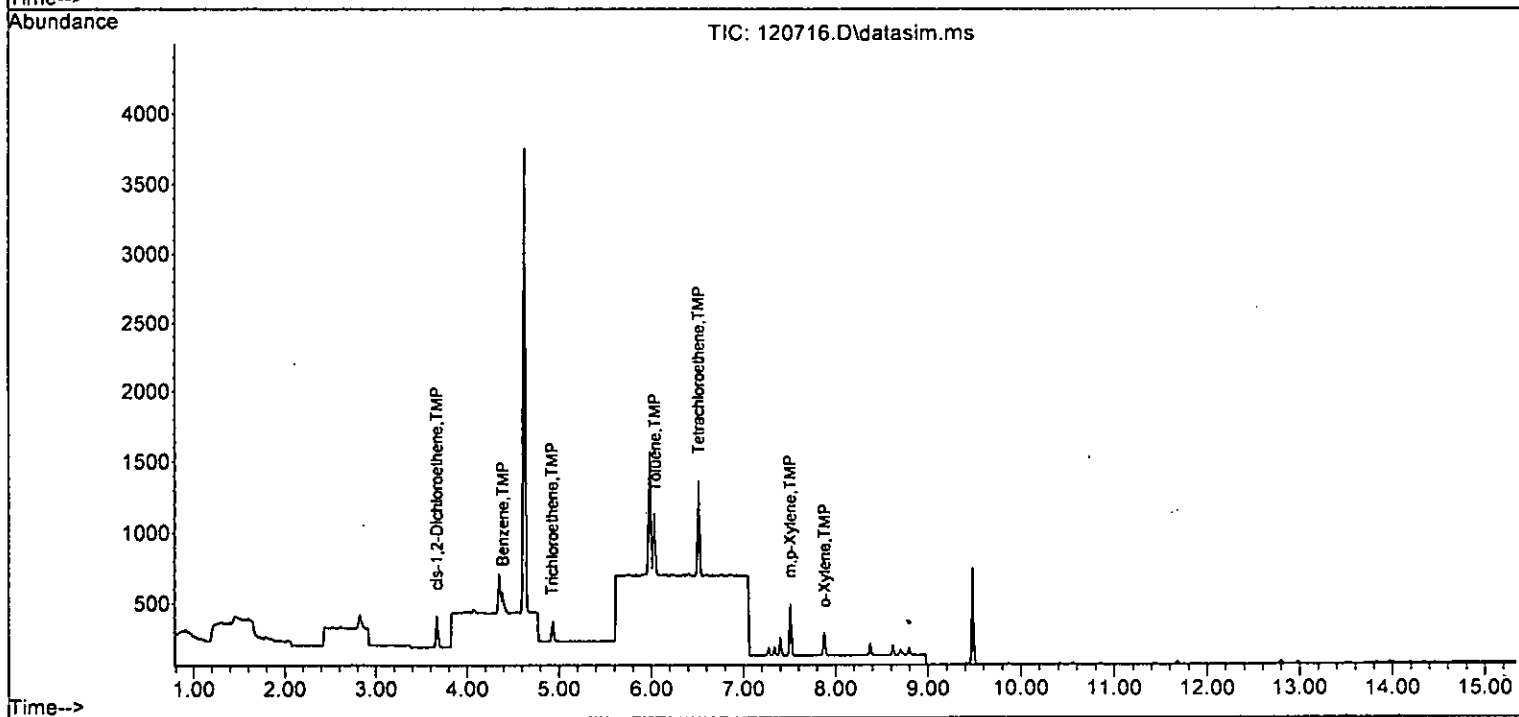
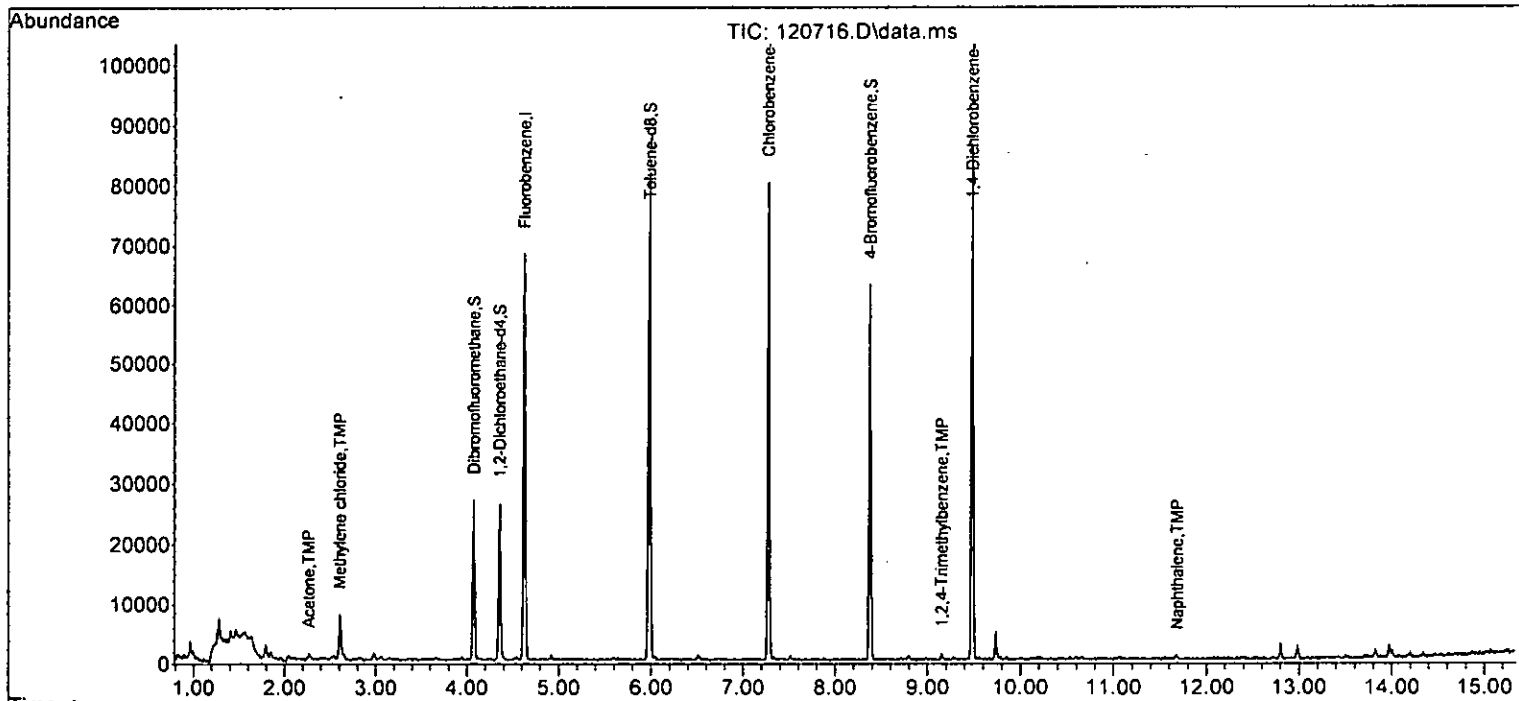
Quant Time: Dec 07 14:43:21 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

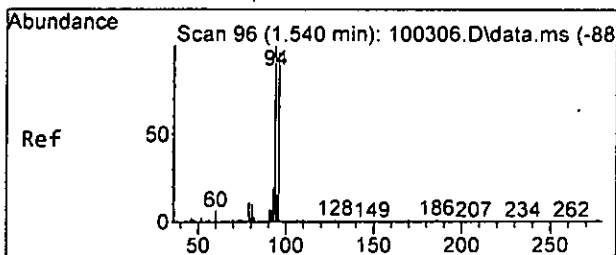
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	45036	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35958	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19204	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11990	10.102	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.00%
30) 1,2-Dichloroethane-d4	4.36	102	2570	9.573	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	95.70%
35) Toluene-d8	5.98	98	43013	9.791	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	97.90%
57) 4-Bromofluorobenzene	8.38	95	16913	10.193	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	101.90%
Target Compounds						
7) Bromomethane	1.57	94	113	Below Cal		70
11) Acetone	2.27	58	317	2.256	ppb #	63
13) Hexane	3.05	57	224	Below Cal	#	51
14) Methylene chloride	2.61	84	2615	1.468	ppb	85
22] cis-1,2-Dichloroethene	3.67	96	115	0.063	ppb	93
24) 2-Butanone (MEK)	3.72	43	364	Below Cal		63
31] Benzene	4.39	78	184	0.022	ppb	92
32] Trichloroethene	4.93	95	60	0.012	ppb	90
40] Toluene	6.04	92	250	0.053	ppb	84
45] Tetrachloroethene	6.51	164	228	0.140	ppb	97
49] Ethylbenzene	7.40	91	142	Below Cal		96
51] m,p-Xylene	7.51	106	168	0.018	ppb	99
52] o-Xylene	7.88	106	78	0.010	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	567	0.115	ppb	88
75) Naphthalene	11.68	128	655	0.142	ppb	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120716.D  
 Acq On : 07 Dec 2022 01:28 pm  
 Operator : LM  
 Sample : 2120S9-03  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

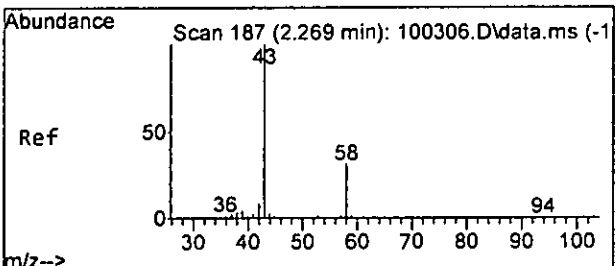
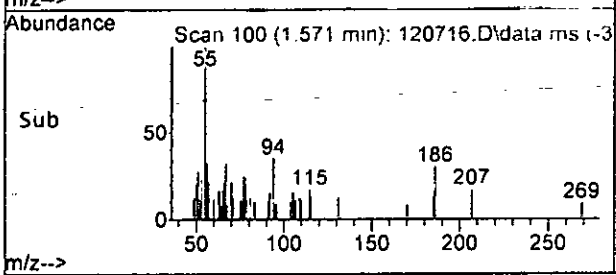
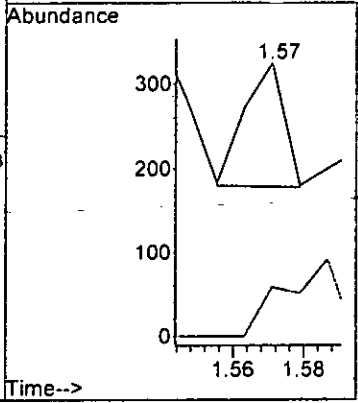
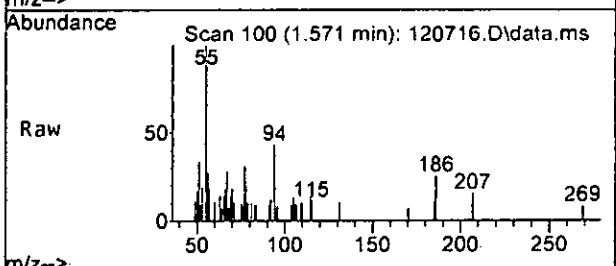
Quant Time: Dec 07 14:43:21 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





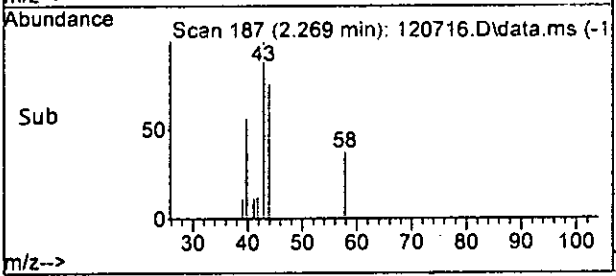
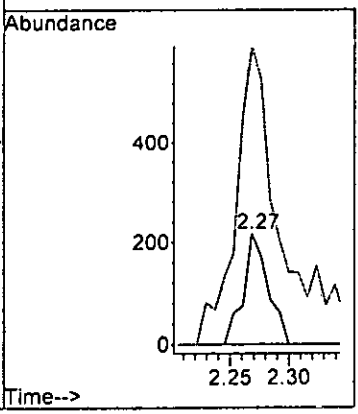
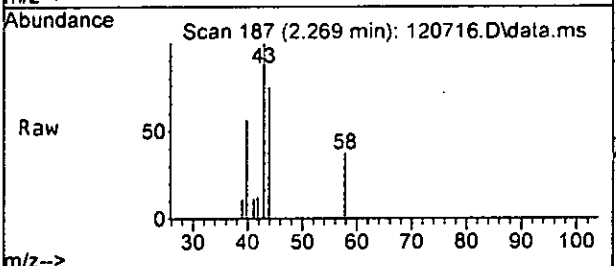
#7  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.57 min Scan# 100  
 Delta R.T. 0.031 min  
 Lab File: 120716.D  
 Acq: 07 Dec 2022 01:28 pm

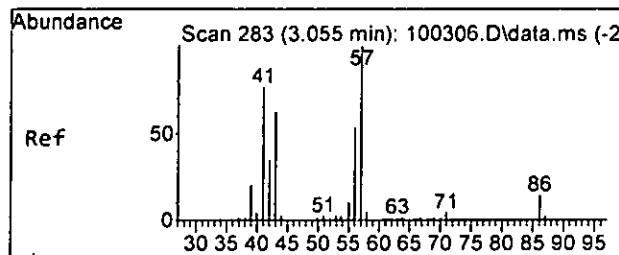
Tgt Ion: 94 Resp: 113  
 Ion Ratio Lower Upper  
 94 100  
 96 40.3 33.9 93.9



#11  
 Acetone  
 Concen: 2.256 ppb  
 RT: 2.27 min Scan# 187  
 Delta R.T. -0.001 min  
 Lab File: 120716.D  
 Acq: 07 Dec 2022 01:28 pm

Tgt Ion: 58 Resp: 317  
 Ion Ratio Lower Upper  
 58 100  
 43 430.3 319.7 379.7#

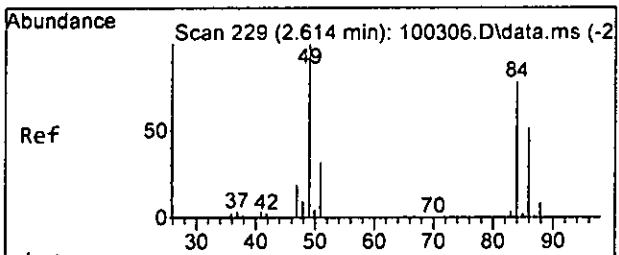
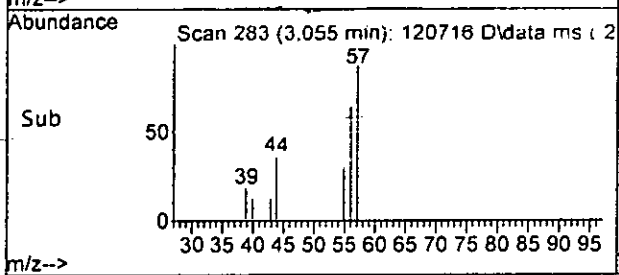
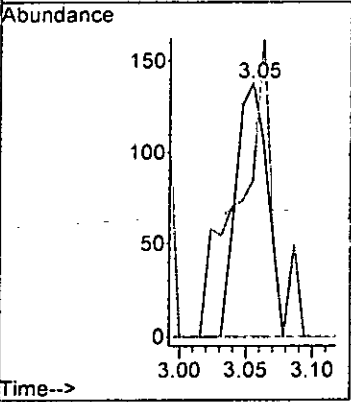
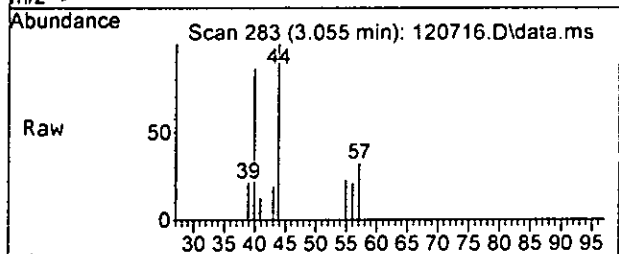




#13  
 Hexane  
 Concen: Below Cal  
 RT: 3.05 min Scan# 283  
 Delta R.T. -0.000 min  
 Lab File: 120716.D  
 Acq: 07 Dec 2022 01:28 pm

Tgt Ion: 57 Resp: 224

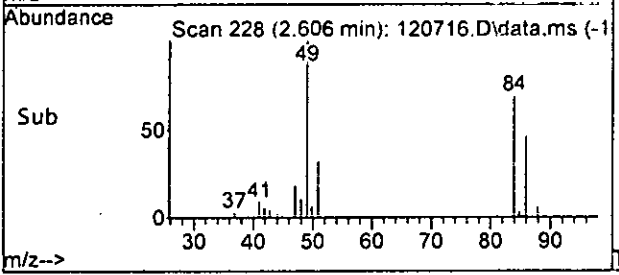
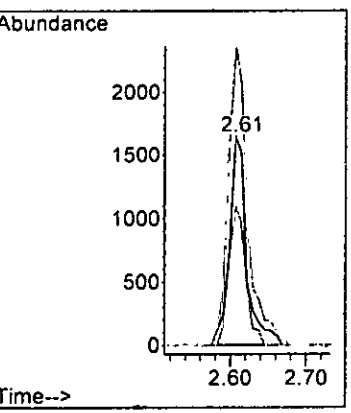
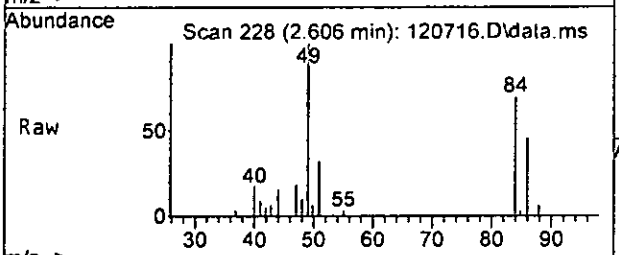
Ion	Ratio	Lower	Upper
57	100		
43	24.6	36.5	96.5#
86	0.0	0.0	42.7

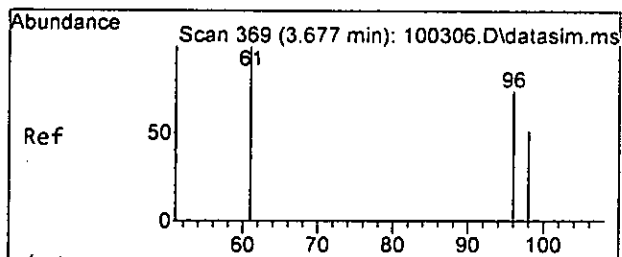


#14  
 Methylene chloride  
 Concen: 1.468 ppb  
 RT: 2.61 min Scan# 228  
 Delta R.T. -0.001 min  
 Lab File: 120716.D  
 Acq: 07 Dec 2022 01:28 pm

Tgt Ion: 84 Resp: 2615

Ion	Ratio	Lower	Upper
84	100		
86	66.7	30.4	90.4
49	144.2	93.0	153.0

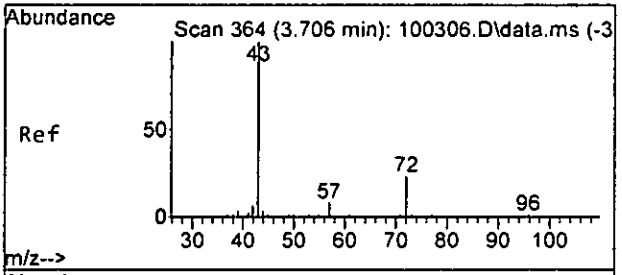
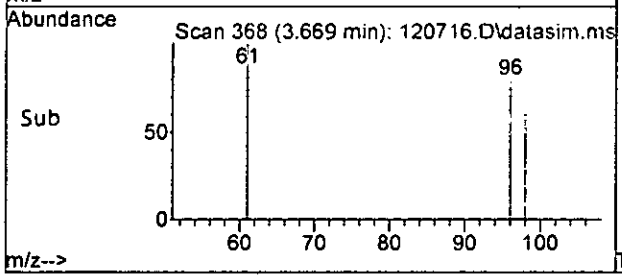
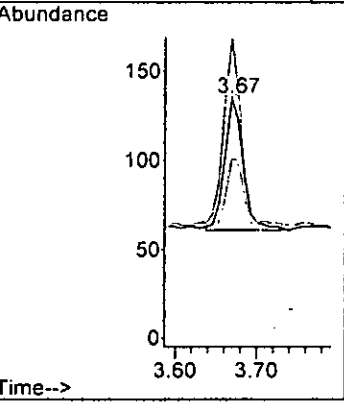
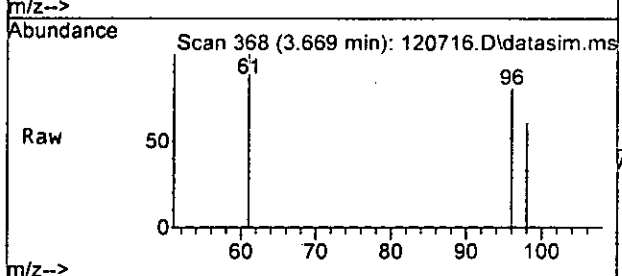




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.063 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. -0.000 min  
 Lab File: 120716.D  
 Acq: 07 Dec 2022 01:28 pm

Tgt Ion: 96 Resp: 115

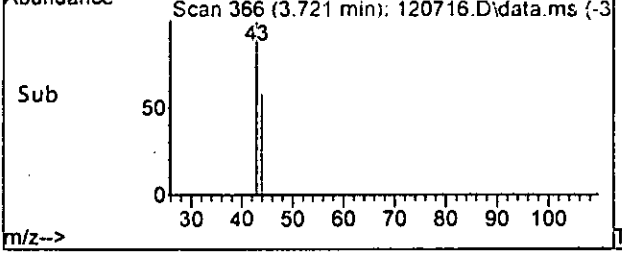
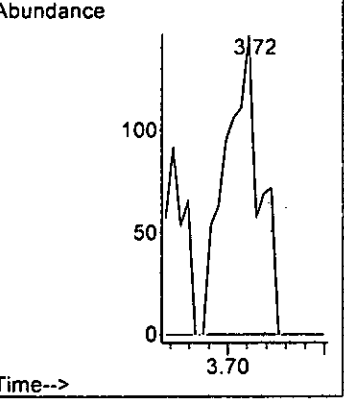
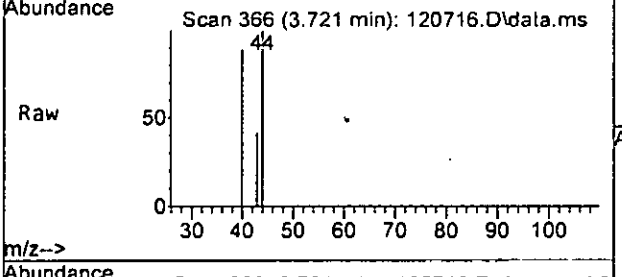
Ion	Ratio	Lower	Upper
96	100		
61	141.9	116.5	176.5
98	55.4	36.7	96.7



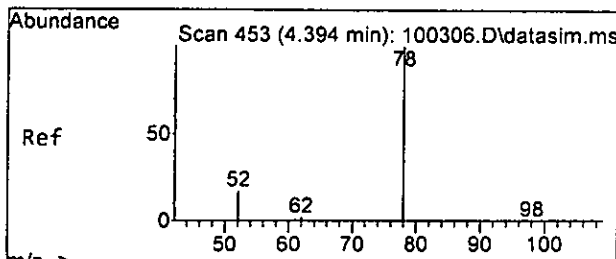
#24  
 2-Butanone (MEK)  
 Concen: Below Cal  
 RT: 3.72 min Scan# 366  
 Delta R.T. 0.015 min  
 Lab File: 120716.D  
 Acq: 07 Dec 2022 01:28 pm

Tgt Ion: 43 Resp: 364

Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	49.9
57	0.0	0.0	28.2

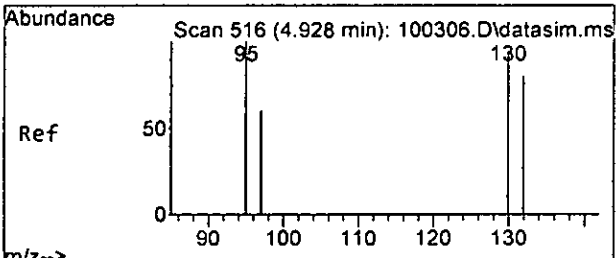
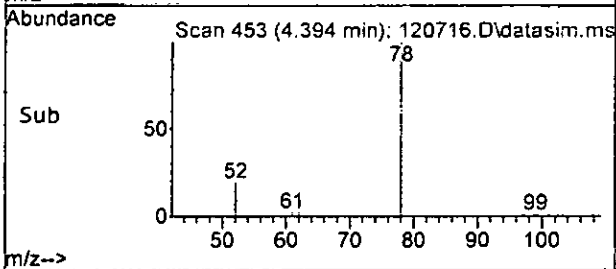
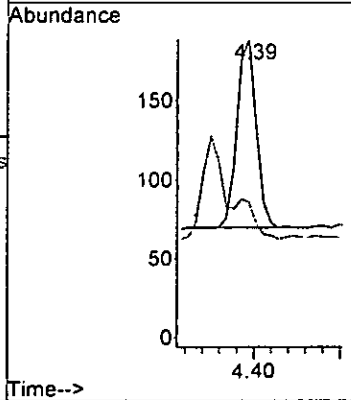
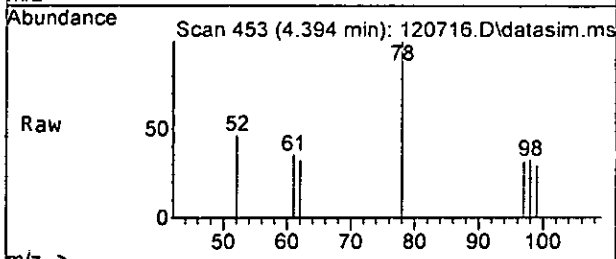






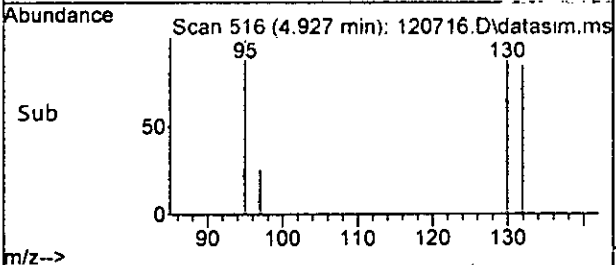
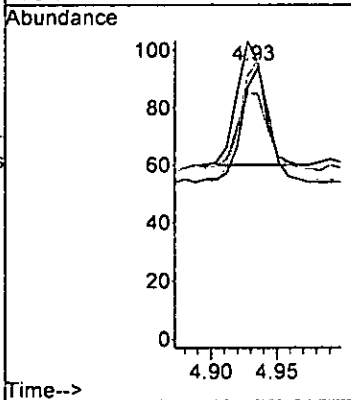
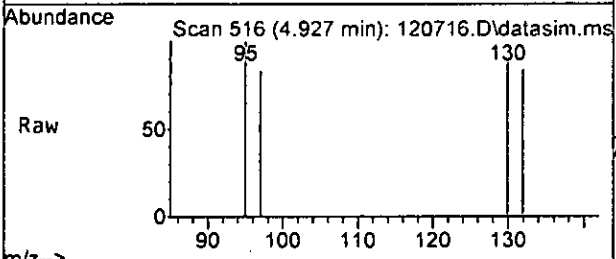
#31  
Benzene  
Concen: 0.022 ppb  
RT: 4.39 min Scan# 453  
Delta R.T. -0.000 min  
Lab File: 120716.D  
Acq: 07 Dec 2022 01:28 pm

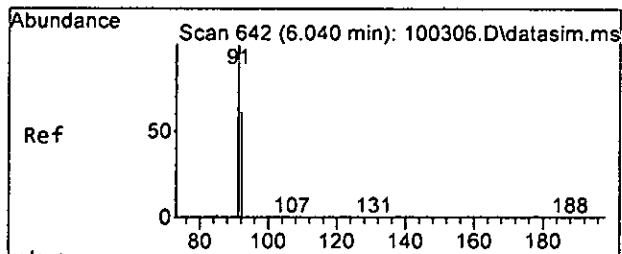
Tgt Ion: 78 Resp: 184  
Ion Ratio Lower Upper  
78 100  
52 18.6 0.0 52.4



#32  
Trichloroethene  
Concen: 0.012 ppb  
RT: 4.93 min Scan# 516  
Delta R.T. -0.001 min  
Lab File: 120716.D  
Acq: 07 Dec 2022 01:28 pm

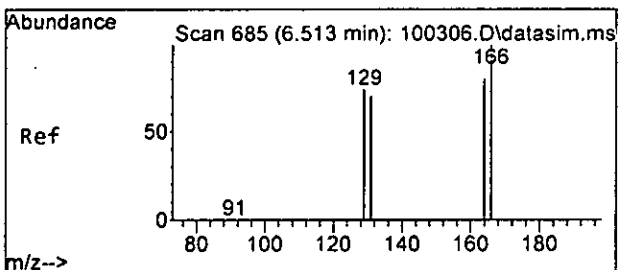
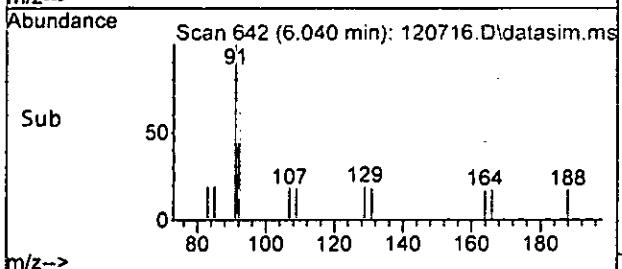
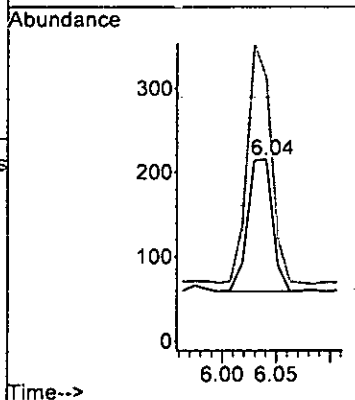
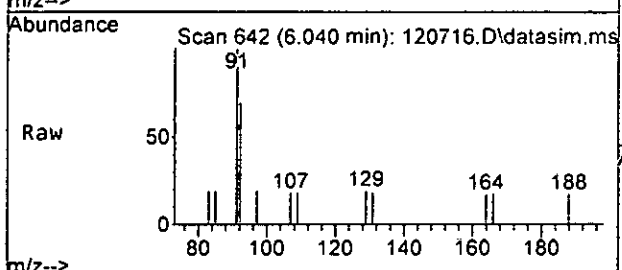
Tgt Ion: 95 Resp: 60  
Ion Ratio Lower Upper  
95 100  
97 60.5 33.6 93.6  
130 86.0 65.5 125.5  
132 74.4 57.2 117.2





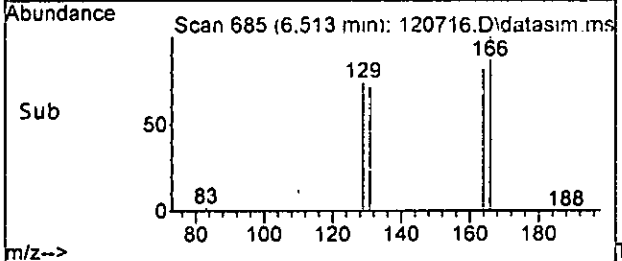
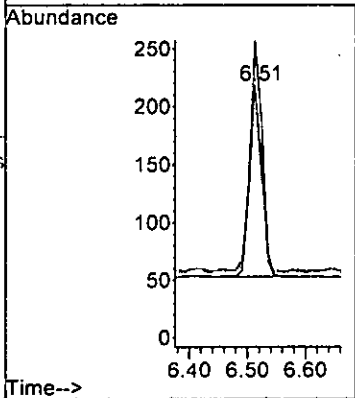
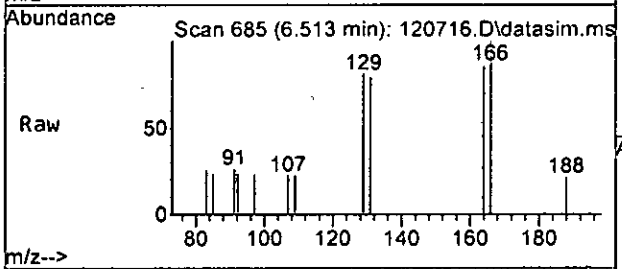
#40  
 Toluene  
 Concen: 0.053 ppb  
 RT: 6.04 min Scan# 642  
 Delta R.T. 0.010 min  
 Lab File: 120716.D  
 Acq: 07 Dec 2022 01:28 pm

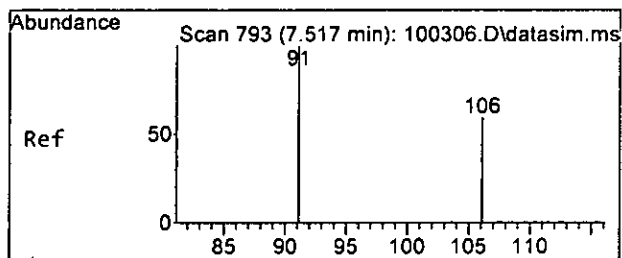
Tgt Ion: 92 Resp: 250  
 Ion Ratio Lower Upper  
 92 100  
 91 156.4 148.8 208.8



#45  
 Tetrachloroethene  
 Concen: 0.140 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. -0.000 min  
 Lab File: 120716.D  
 Acq: 07 Dec 2022 01:28 pm

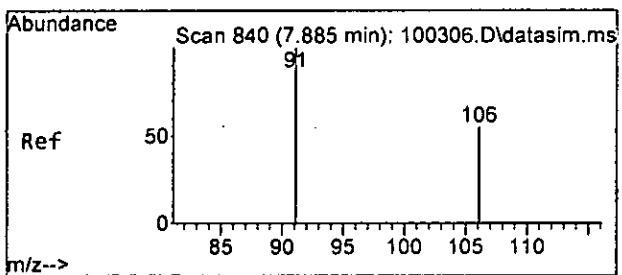
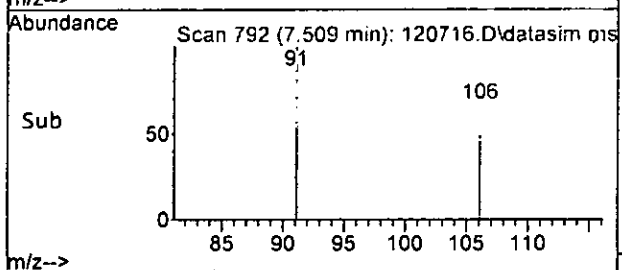
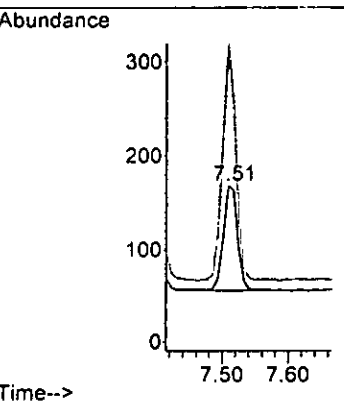
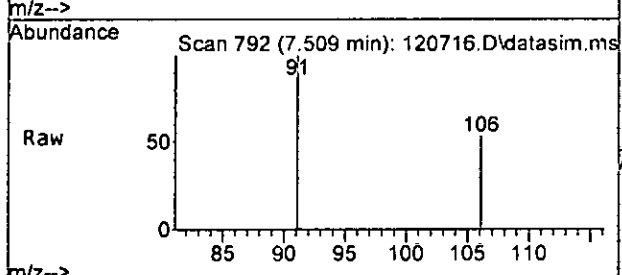
Tgt Ion: 164 Resp: 228  
 Ion Ratio Lower Upper  
 164 100  
 129 90.9 62.5 122.5  
 131 88.5 60.3 120.3  
 166 123.6 98.4 158.4





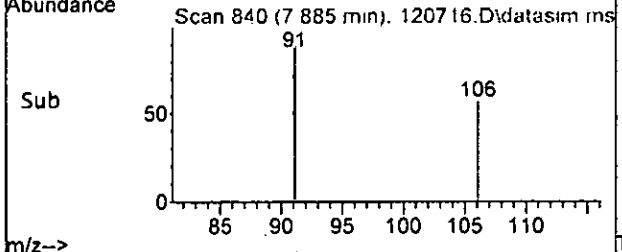
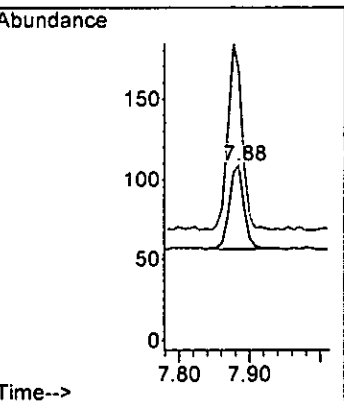
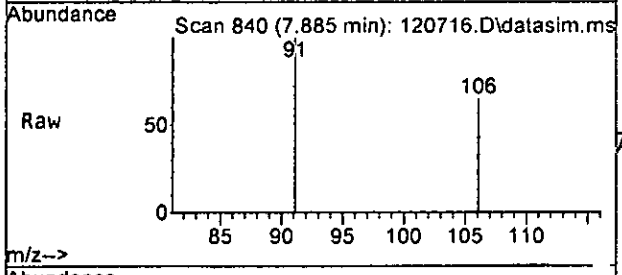
#51  
 m,p-Xylene  
 Concen: 0.018 ppb  
 RT: 7.51 min Scan# 792  
 Delta R.T. -0.000 min  
 Lab File: 120716.D  
 Acq: 07 Dec 2022 01:28 pm

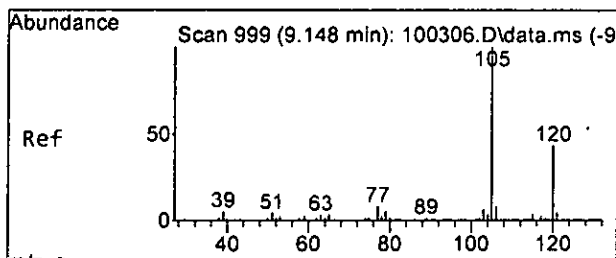
Tgt Ion:106 Resp: 168  
 Ion Ratio Lower Upper  
 106 100  
 91 224.1 191.7 251.7



#52  
 o-Xylene  
 Concen: 0.010 ppb  
 RT: 7.88 min Scan# 840  
 Delta R.T. -0.000 min  
 Lab File: 120716.D  
 Acq: 07 Dec 2022 01:28 pm

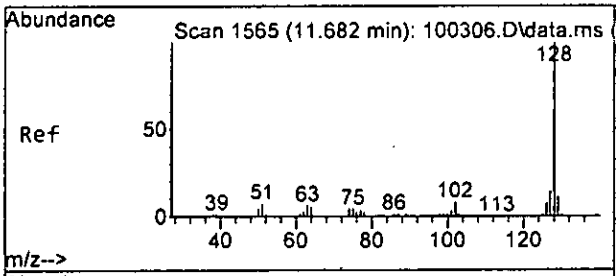
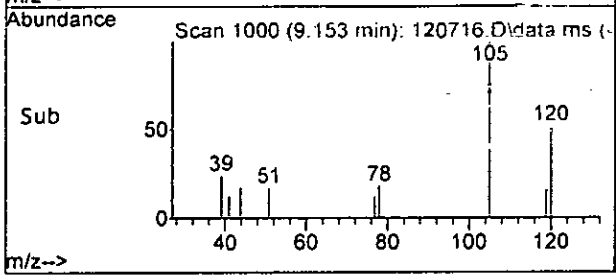
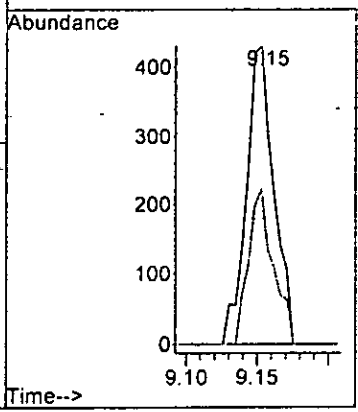
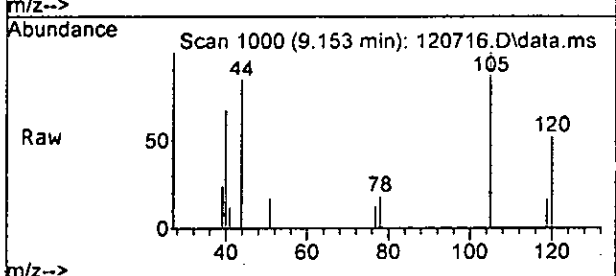
Tgt Ion:106 Resp: 78  
 Ion Ratio Lower Upper  
 106 100  
 91 184.9 155.8 215.8





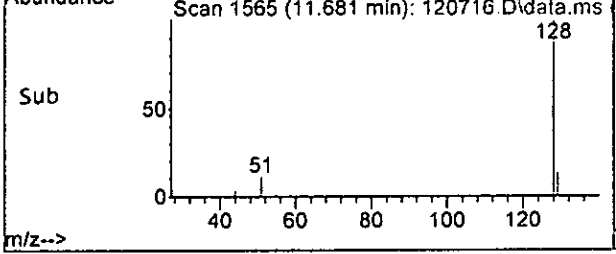
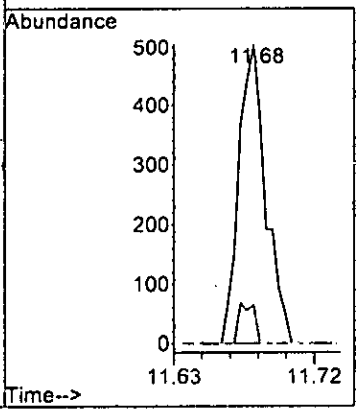
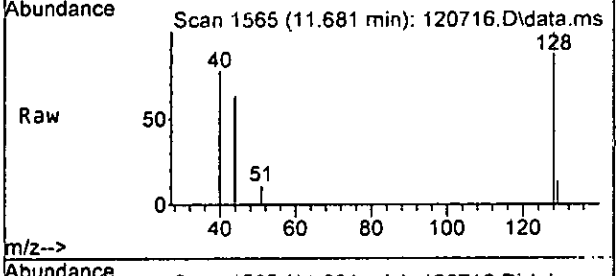
#66  
 1,2,4-Trimethylbenzene  
 Concen: 0.115 ppb  
 RT: 9.15 min Scan# 1000  
 Delta R.T. -0.000 min  
 Lab File: 120716.D  
 Acq: 07 Dec 2022 01:28 pm

Tgt Ion: 105 Resp: 567  
 Ion Ratio Lower Upper  
 105 100  
 120 51.9 14.1 74.1



#75  
 Naphthalene  
 Concen: 0.142 ppb  
 RT: 11.68 min Scan# 1565  
 Delta R.T. -0.001 min  
 Lab File: 120716.D  
 Acq: 07 Dec 2022 01:28 pm

Tgt Ion: 128 Resp: 655  
 Ion Ratio Lower Upper  
 128 100  
 129 12.9 0.0 41.7  
 127 0.0 0.0 43.5



Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120716.D  
 Acq On : 07 Dec 2022 01:28 pm  
 Operator : LM  
 Sample : 212059-03  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 07 14:43:21 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	45036	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35958	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19204	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11990	10.102	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.00%	
30) 1,2-Dichloroethane-d4	4.36	102	2570	9.573	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	95.70%	
35) Toluene-d8	5.98	98	43013	9.791	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	97.90%	
57) 4-Bromofluorobenzene	8.38	95	16913	10.193	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	101.90%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0		N.D.		
4) Dichlorodifluoromethane	0.00		0		N.D.		
5) Chloromethane	1.23	50	1048		N.D.		
6) Vinyl chloride	0.00		0		N.D.		
7) Bromomethane	1.57	94	113		Below Cal		70
8) Chloroethane	0.00		0		N.D.		
9) Trichlorofluoromethane	0.00		0		N.D.		
10) 2-Propanol	2.40	45	345		No Calib		
11) Acetone	2.27	58	317	2.256	ppb #		63
12) 1,1-Dichloroethene	0.00		0		N.D.		
13) Hexane	3.05	57	224		Below Cal #		51
14) Methylene chloride	2.61	84	2615	1.468	ppb		85
15) t-Butyl alcohol (TBA)	0.00		0		N.D.		
16) Methyl t-butyl ether (...)	0.00		0		N.D.		
17) trans-1,2-Dichloroethene	0.00		0		N.D.		
18) Diisopropyl ether (DIPE)	0.00		0		N.D.		
19) 1,1-Dichloroethane	0.00		0		N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.		
21) 2,2-Dichloropropane	0.00		0		N.D.		
22] cis-1,2-Dichloroethene	3.67	96	115	0.063	ppb		93
23) Chloroform	3.95	83	185		N.D.		
24) 2-Butanone (MEK)	3.72	43	364		Below Cal		63
25) t-Amyl methyl ether (T...)	0.00		0		N.D.		
26) 1,2-Dichloroethane (EDC)	0.00		0		N.D.		
27) 1,1,1-Trichloroethane	0.00		0		N.D.		
28) 1,1-Dichloropropene	0.00		0		N.D.		
29) Carbon tetrachloride	0.00		0		N.D.		
31] Benzene	4.39	78	184	0.022	ppb		92
32] Trichloroethene	4.93	95	60	0.012	ppb		90
33) 1,2-Dichloropropane	0.00		0		N.D.		
34) Bromodichloromethane	0.00		0		N.D.		
36) Dibromomethane	0.00		0		N.D.		

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120716.D  
 Acq On : 07 Dec 2022 01:28 pm  
 Operator : LM  
 Sample : 212059-03  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

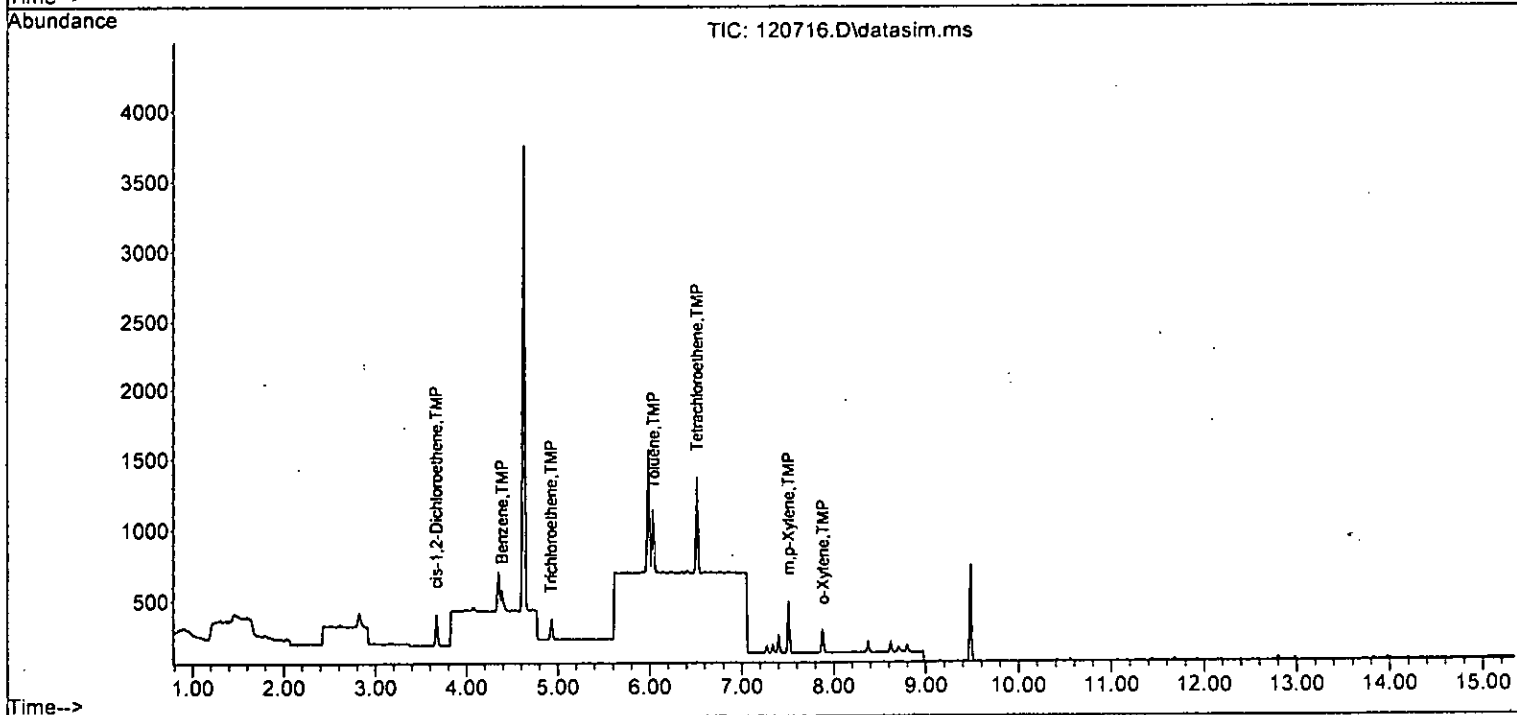
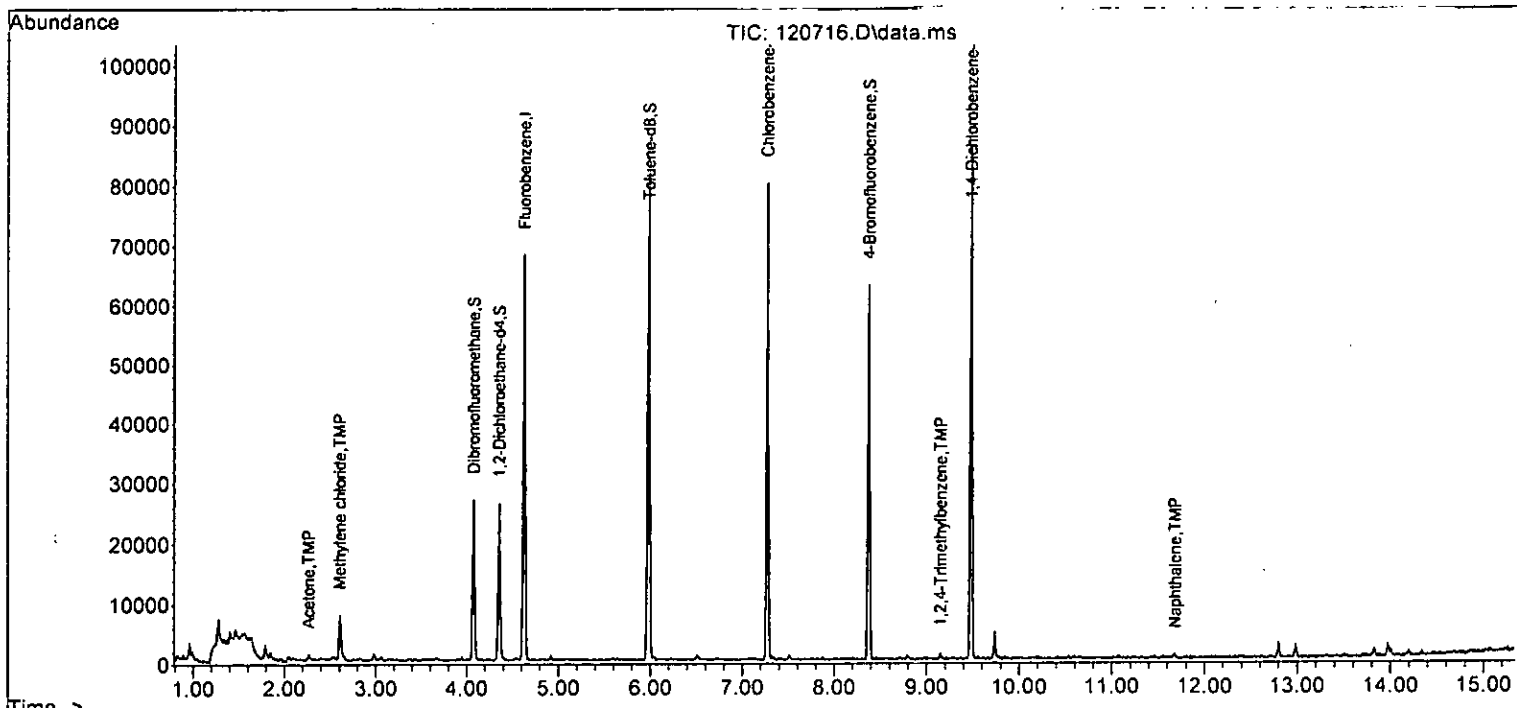
Quant Time: Dec 07 14:43:21 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40] Toluene	6.04	92	250	0.053 ppb	84
41) trans-1,3-Dichloropropene	0.00		0	N.D.	
42) 1,1,2-Trichloroethane	0.00		0	N.D.	
43) 2-Hexanone	0.00		0	N.D. d	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45] Tetrachloroethene	6.51	164	228	0.140 ppb	97
46) Dibromochloromethane	0.00		0	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	0.00		0	N.D.	
49] Ethylbenzene	7.40	91	142	Below Cal	96
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.51	106	168	0.018 ppb	99
52] o-Xylene	7.88	106	78	0.010 ppb	99
53) Styrene	7.91	104	52	N.D.	
54) Isopropylbenzene	0.00		0	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	8.81	91	83	N.D.	
59) Bromobenzene	0.00		0	N.D.	
60) 1,3,5-Trimethylbenzene	8.79	105	284	N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
62) 1,2,3-Trichloropropane	0.00		0	N.D. d	
63) 2-Chlorotoluene	8.81	91	83	N.D.	
64) 4-Chlorotoluene	8.81	91	83	N.D.	
65) tert-Butylbenzene	0.00		0	N.D.	
66) 1,2,4-Trimethylbenzene	9.15	105	567	0.115 ppb	88
67) sec-Butylbenzene	9.15	105	567	N.D.	
68) p-Isopropyltoluene	0.00		0	N.D.	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	
74) Hexachlorobutadiene	0.00		0	N.D.	
75) Naphthalene	11.68	128	655	0.142 ppb	81
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120716.D  
 Acq On : 07 Dec 2022 01:28 pm  
 Operator : LM  
 Sample : 212059-03  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

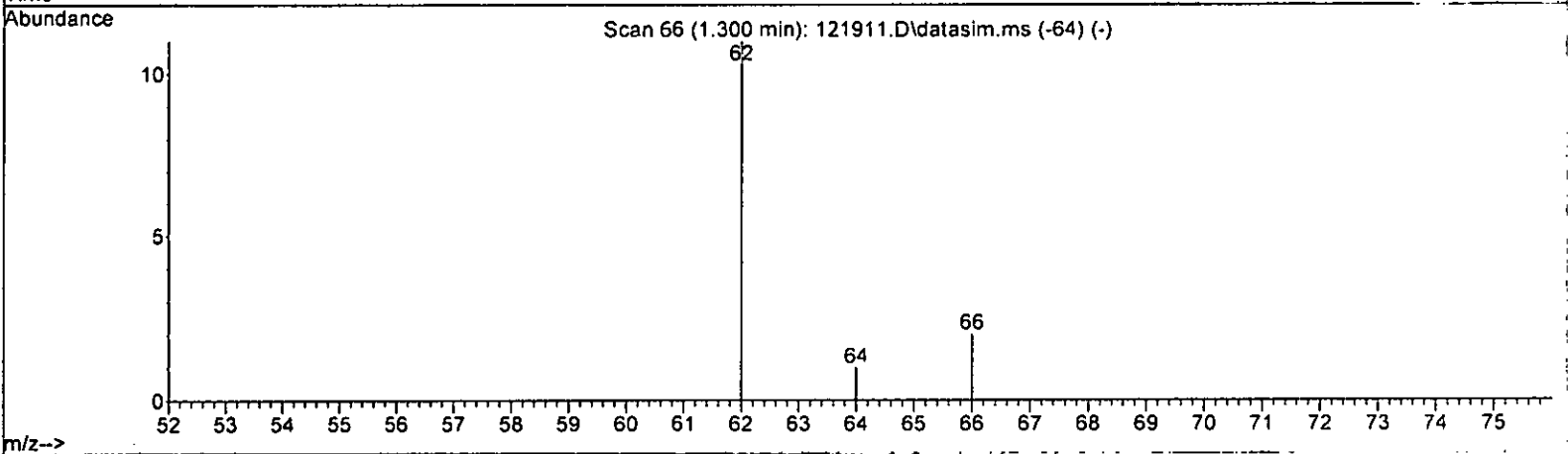
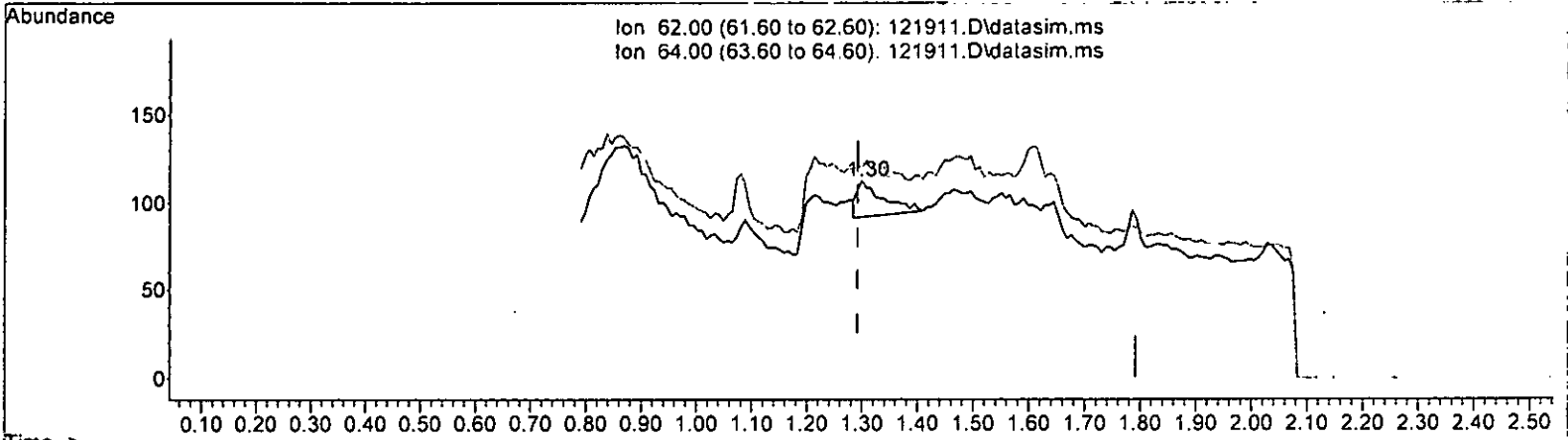
Quant Time: Dec 07 14:43:21 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121911.D  
 Acq On : 19 Dec 2022 11:30 am  
 Operator : LM  
 Sample : 212059-03 rr  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 19 12:49:10 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121911.D\data.ms

(6) Vinyl chloride (TMP)  
 1.300min (+ 0.008) 0.011 ppb

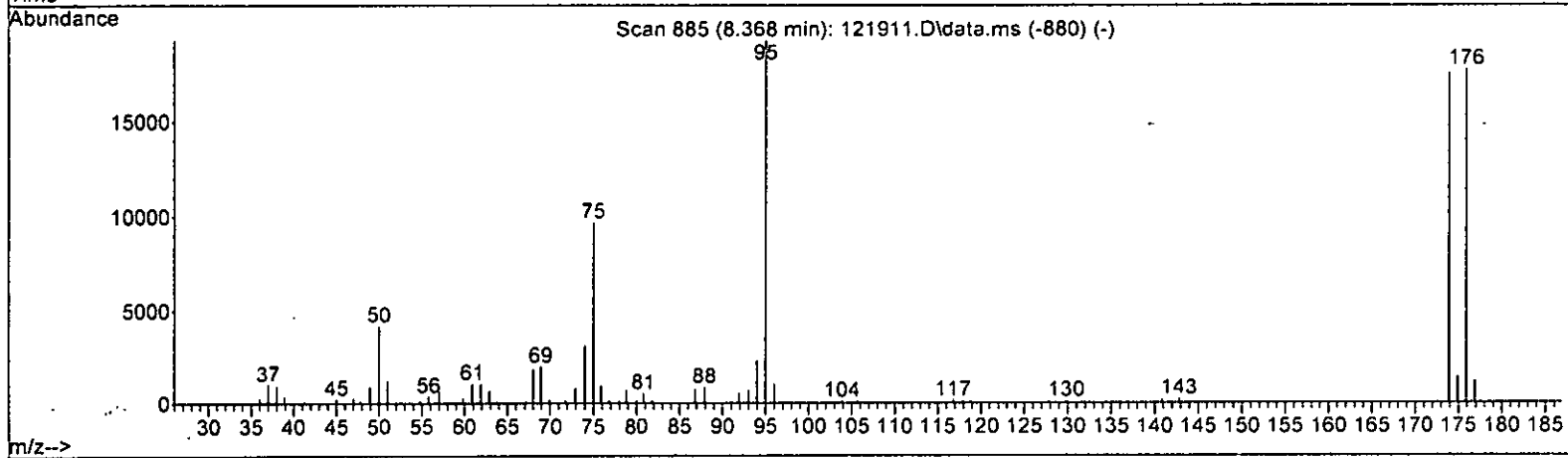
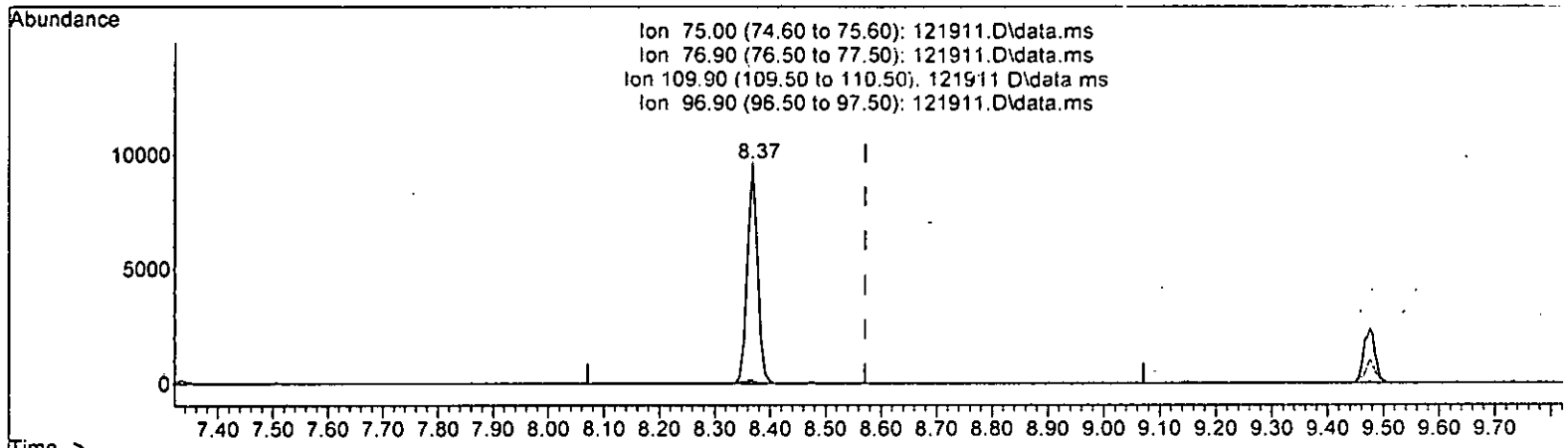
response	65	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	35.29
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121911.D  
 Acq On : 19 Dec 2022 11:30 am  
 Operator : LM  
 Sample : 212059-03 rr  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 19 12:49:10 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121911.D\data.ms

(62) 1,2,3-Trichloropropane (TMP)

8.368min (-0.203) 6.608 ppb

response	12410
Ion	Exp% Act%
75.00	100.00 100.00
76.90	29.70 1.34
109.90	40.90 0.00#
96.90	19.00 0.00

Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121911.D  
 Acq On : 19 Dec 2022 11:30 am  
 Operator : LM  
 Sample : 212059-03 rr  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

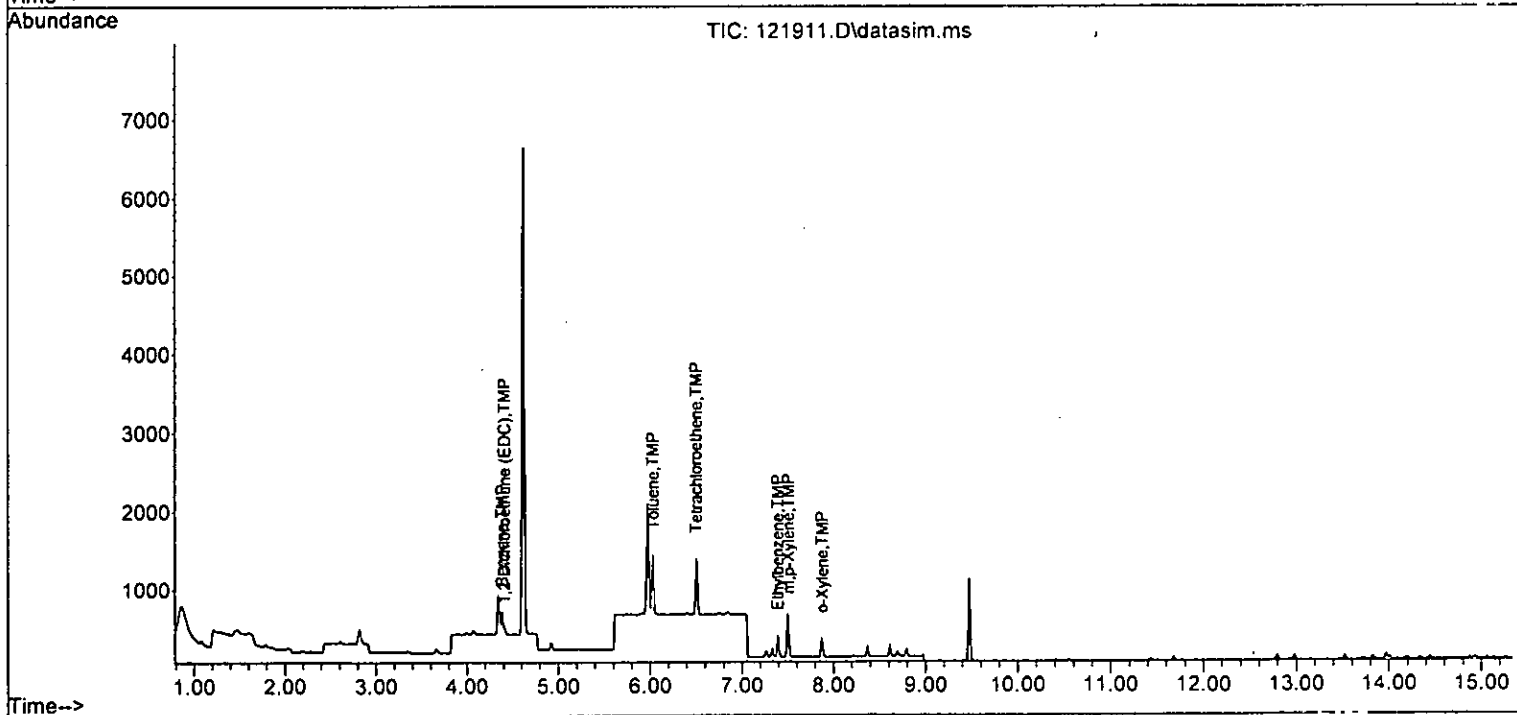
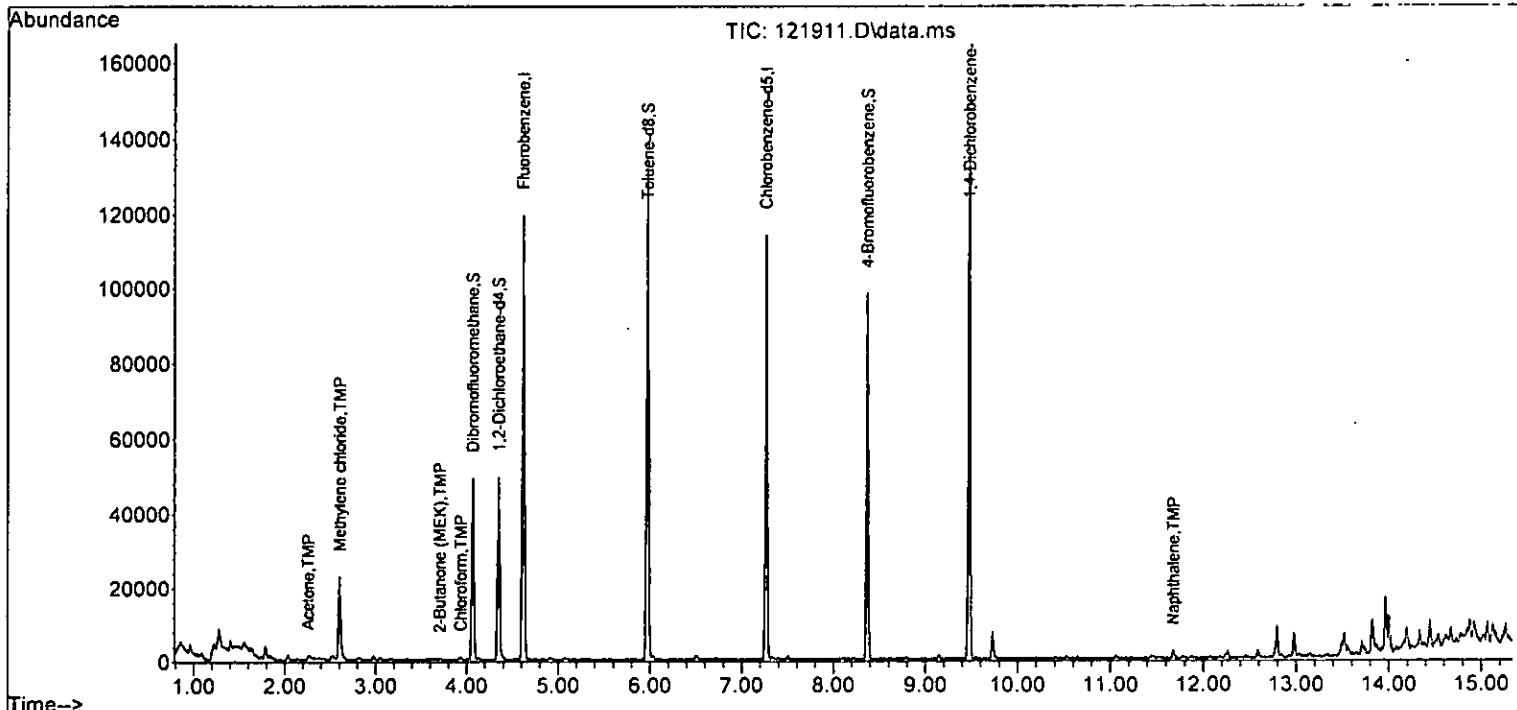
Quant Time: Dec 19 12:49:10 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

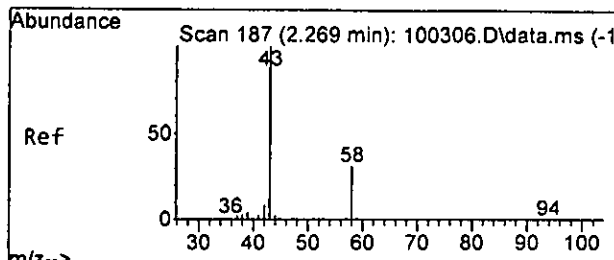
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.62	96	80046	10.000	ppb	0.00
39) Chlorobenzene-d5	7.26	117	55562	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	32055	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	22999	10.890	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	108.90%	
30) 1,2-Dichloroethane-d4	4.35	102	4915	10.178	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	101.80%	
35) Toluene-d8	5.97	98	68836	8.957	ppb	-0.01
Spiked Amount	10.000	Range 84 - 115	Recovery	=	89.60%	
57) 4-Bromofluorobenzene	8.37	95	25664	9.483	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	94.80%	
Target Compounds						
						Qvalue
11) Acetone	2.26	58	591	1.983	ppb	# 62
14) Methylene chloride	2.61	84	7958	3.695	ppb	93
23) Chloroform	3.94	83	430	0.113	ppb	98
24) 2-Butanone (MEK)	3.71	43	396	0.271	ppb	63
26] 1,2-Dichloroethane (EDC)	4.41	62	88	0.027	ppb	97
31] Benzene	4.39	78	350	0.044	ppb	99
40] Toluene	6.03	92	407	0.085	ppb	99
45] Tetrachloroethene	6.50	164	287	0.151	ppb	95
49] Ethylbenzene	7.39	91	298	0.033	ppb	97
51] m,p-Xylene	7.51	106	264	0.078	ppb	99
52] o-Xylene	7.88	106	112	0.034	ppb	96
75) Naphthalene	11.68	128	1744	0.209	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121911.D  
 Acq On : 19 Dec 2022 11:30 am  
 Operator : LM  
 Sample : 212059-03 rr  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

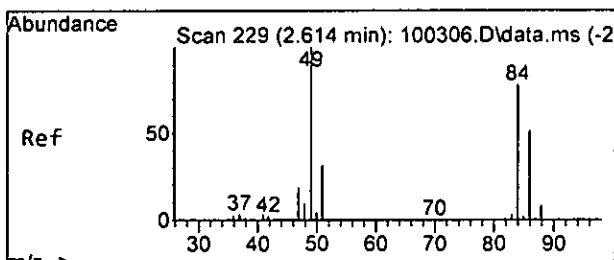
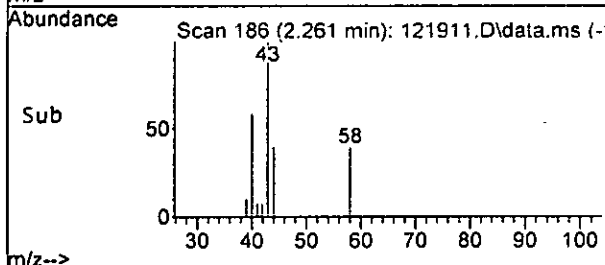
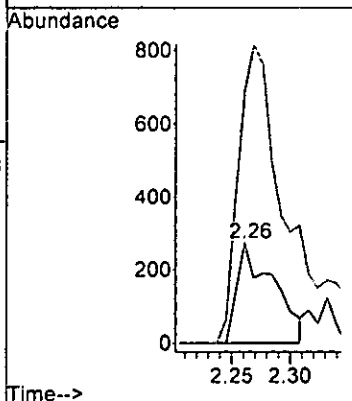
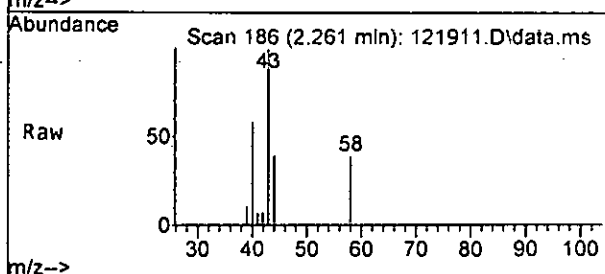
Quant Time: Dec 19 12:49:10 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





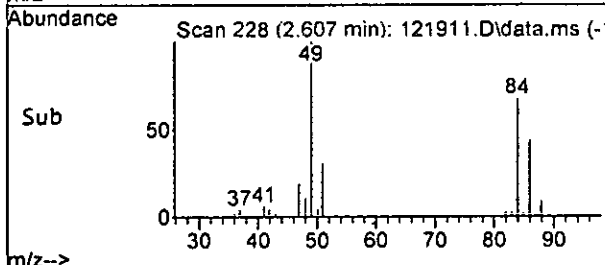
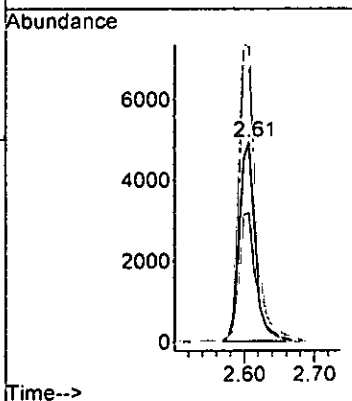
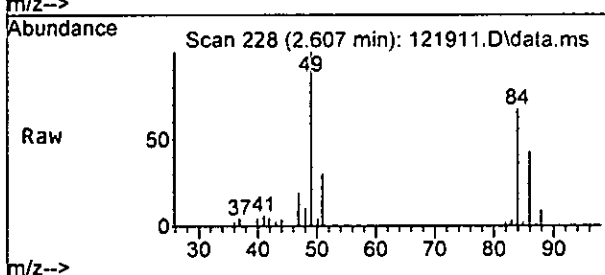
#11  
 Acetone  
 Concen: 1.983 ppb  
 RT: 2.26 min Scan# 186  
 Delta R.T. -0.000 min  
 Lab File: 121911.D  
 Acq: 19 Dec 2022 11:30 am

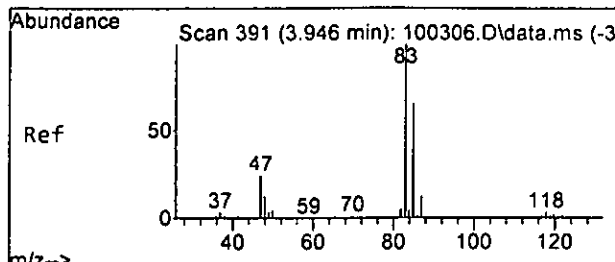
Tgt Ion: 58 Resp: 591  
 Ion Ratio Lower Upper  
 58 100  
 43 418.6 308.5 368.5#



#14  
 Methylene chloride  
 Concen: 3.695 ppb  
 RT: 2.61 min Scan# 228  
 Delta R.T. 0.008 min  
 Lab File: 121911.D  
 Acq: 19 Dec 2022 11:30 am

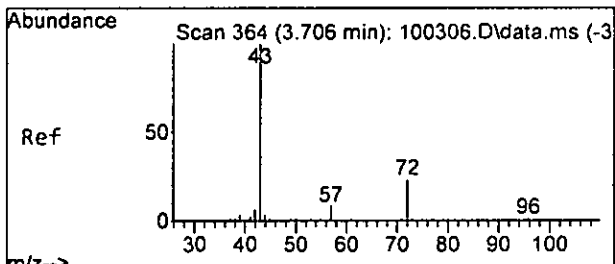
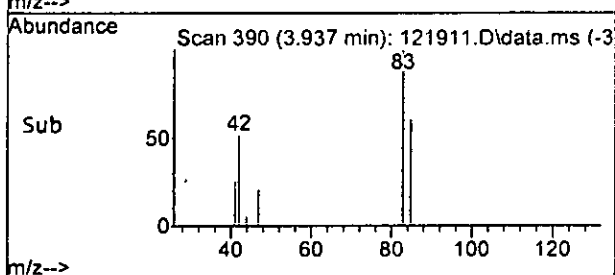
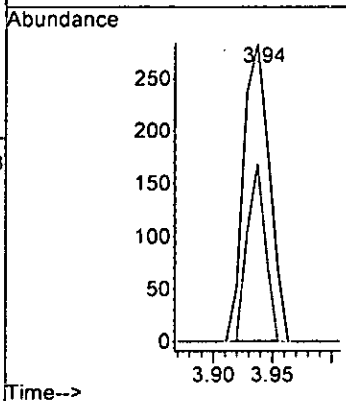
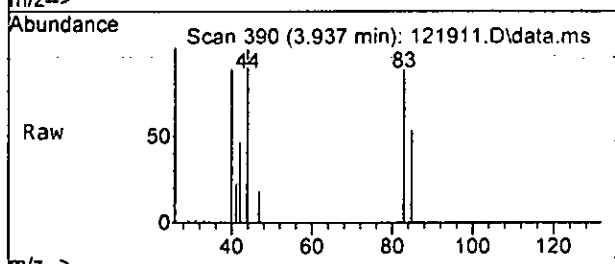
Tgt Ion: 84 Resp: 7958  
 Ion Ratio Lower Upper  
 84 100  
 86 64.5 30.4 90.4  
 49 148.2 127.9 187.9





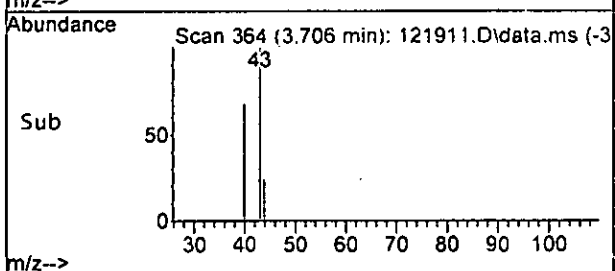
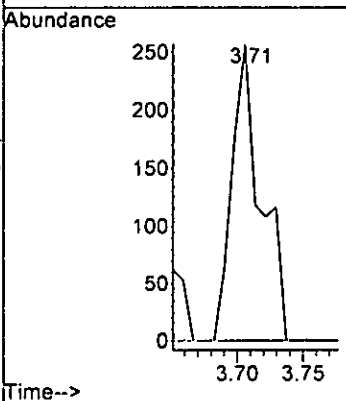
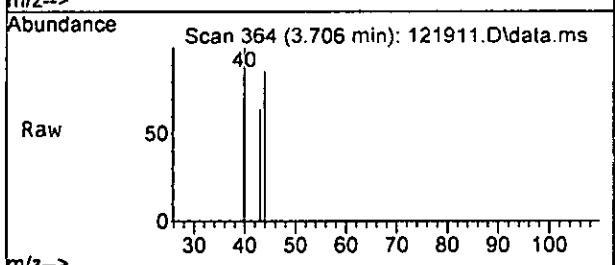
#23  
 Chloroform  
 Concen: 0.113 ppb  
 RT: 3.94 min Scan# 390  
 Delta R.T. 0.000 min  
 Lab File: 121911.D  
 Acq: 19 Dec 2022 11:30 am

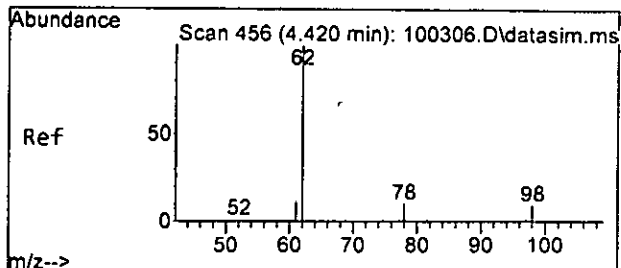
Tgt Ion: 83 Resp: 430  
 Ion Ratio Lower Upper  
 83 100  
 85 59.5 31.3 91.3



#24  
 2-Butanone (MEK)  
 Concen: 0.271 ppb  
 RT: 3.71 min Scan# 364  
 Delta R.T. 0.008 min  
 Lab File: 121911.D  
 Acq: 19 Dec 2022 11:30 am

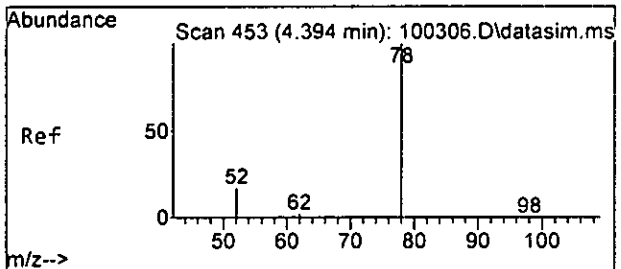
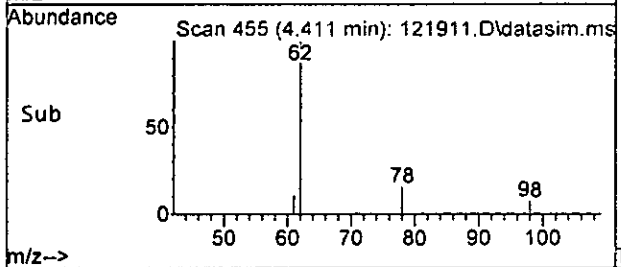
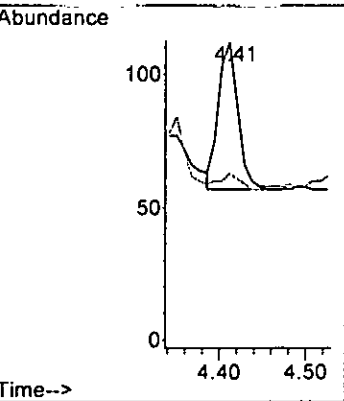
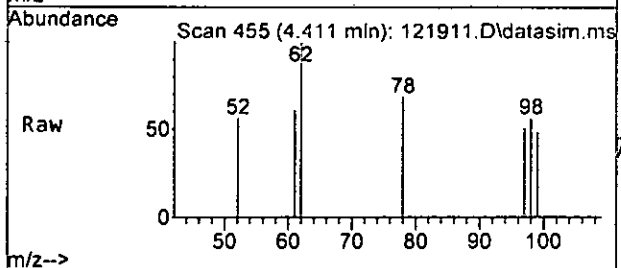
Tgt Ion: 43 Resp: 396  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 0.0 49.5  
 57 0.0 0.0 27.5





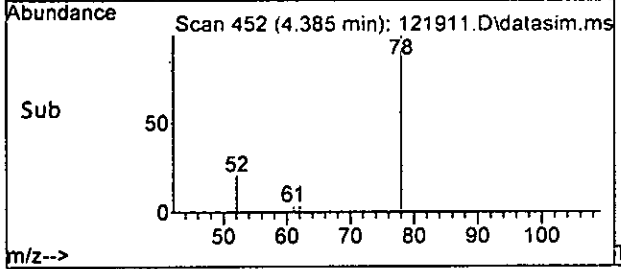
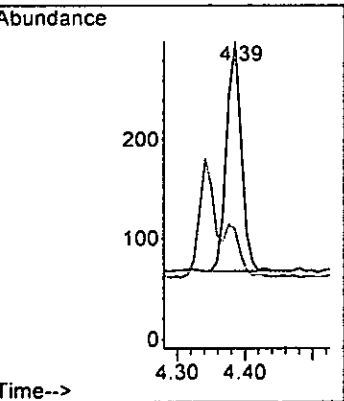
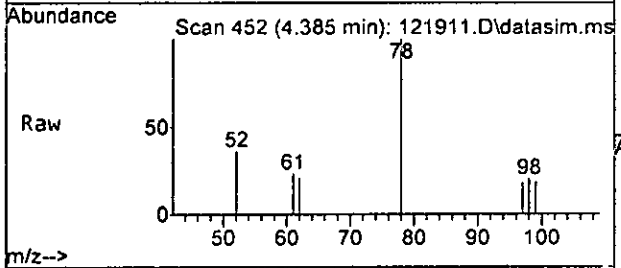
#26  
 1,2-Dichloroethane (EDC)  
 Concen: 0.027 ppb  
 RT: 4.41 min Scan# 455  
 Delta R.T. 0.000 min  
 Lab File: 121911.D  
 Acq: 19 Dec 2022 11:30 am

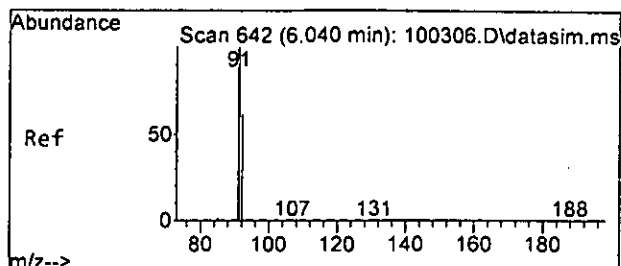
Tgt Ion: 62 Resp: 88  
 Ion Ratio Lower Upper  
 62 100  
 98 7.3 0.0 38.2



#31  
 Benzene  
 Concen: 0.044 ppb  
 RT: 4.39 min Scan# 452  
 Delta R.T. 0.000 min  
 Lab File: 121911.D  
 Acq: 19 Dec 2022 11:30 am

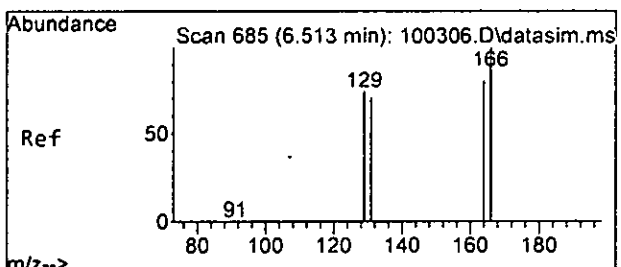
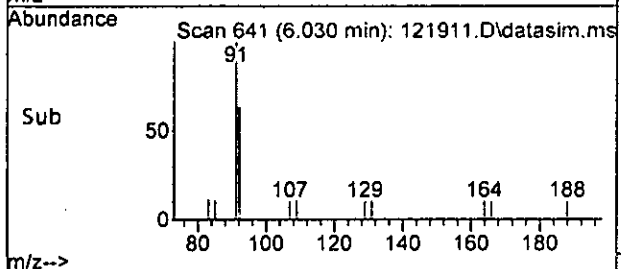
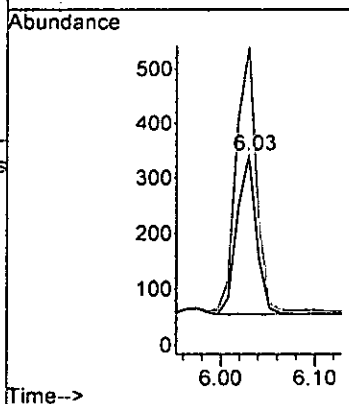
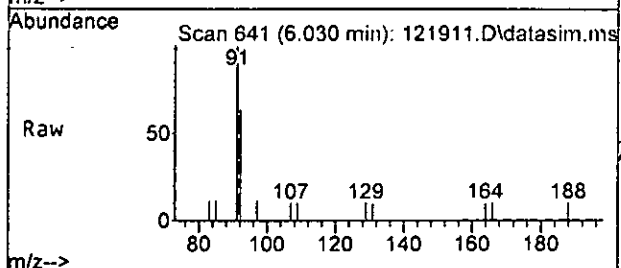
Tgt Ion: 78 Resp: 350  
 Ion Ratio Lower Upper  
 78 100  
 52 20.3 0.0 49.9





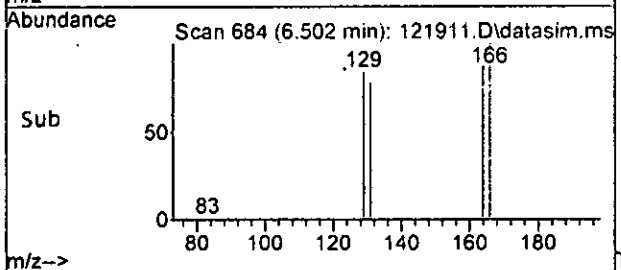
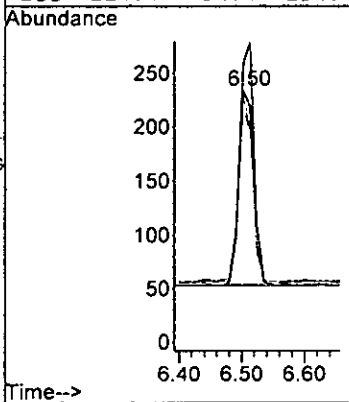
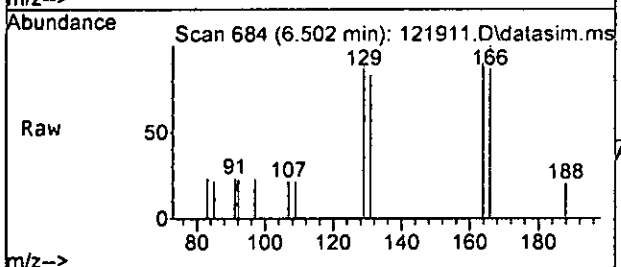
#40  
 Toluene  
 Concen: 0.085 ppb  
 RT: 6.03 min Scan# 641  
 Delta R.T. 0.001 min  
 Lab File: 121911.D  
 Acq: 19 Dec 2022 11:30 am

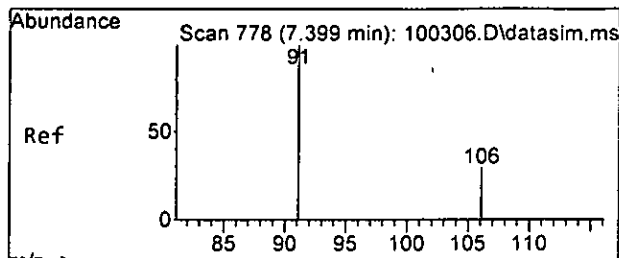
Tgt Ion: 92 Resp: 407  
 Ion Ratio Lower Upper  
 92 100  
 91 167.5 135.6 195.6



#45  
 Tetrachloroethene  
 Concen: 0.151 ppb  
 RT: 6.50 min Scan# 684  
 Delta R.T. -0.011 min  
 Lab File: 121911.D  
 Acq: 19 Dec 2022 11:30 am

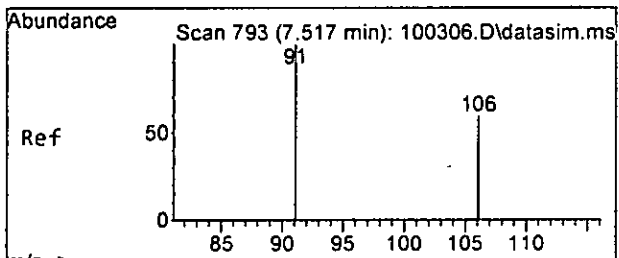
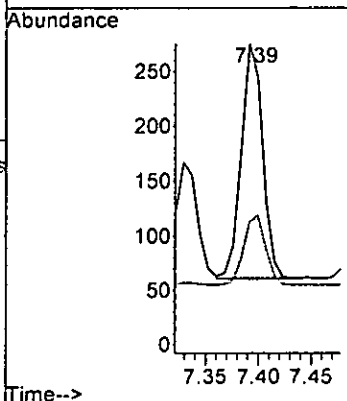
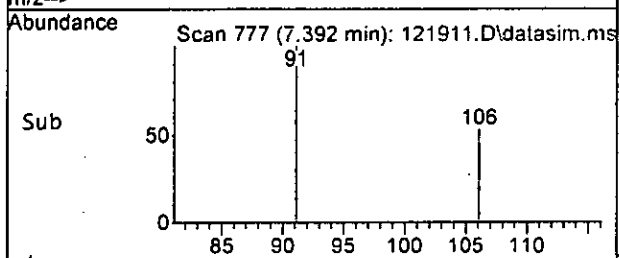
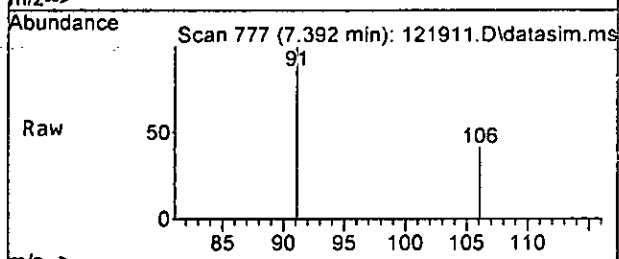
Tgt Ion: 164 Resp: 287  
 Ion Ratio Lower Upper  
 164 100  
 129 96.1 62.6 122.6  
 131 88.4 58.6 118.6  
 166 114.4 94.4 154.4





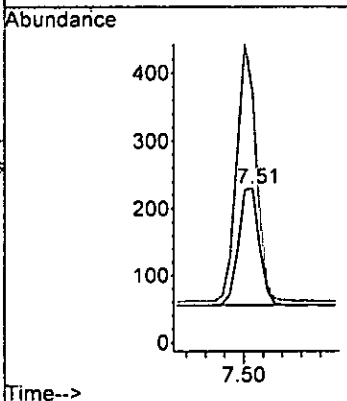
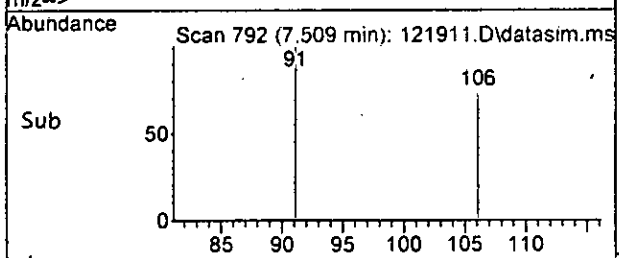
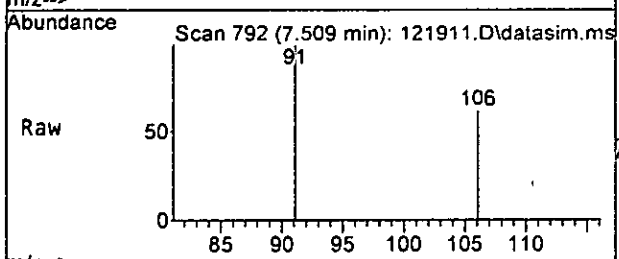
#49  
 Ethylbenzene  
 Concen: 0.033 ppb  
 RT: 7.39 min Scan# 777  
 Delta R.T. -0.007 min  
 Lab File: 121911.D  
 Acq: 19 Dec 2022 11:30 am

Tgt Ion: 91 Resp: 298  
 Ion Ratio Lower Upper  
 91 100  
 106 27.0 0.0 58.3

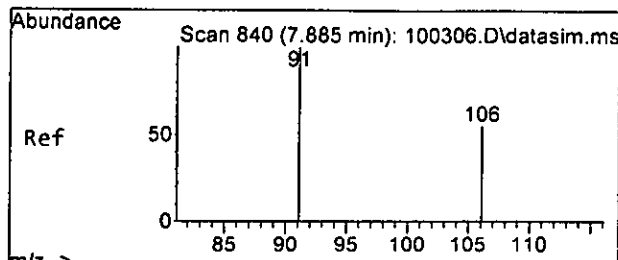


#51  
 m,p-Xylene  
 Concen: 0.078 ppb  
 RT: 7.51 min Scan# 792  
 Delta R.T. -0.000 min  
 Lab File: 121911.D  
 Acq: 19 Dec 2022 11:30 am

Tgt Ion: 106 Resp: 264  
 Ion Ratio Lower Upper  
 106 100  
 91 176.0 147.7 207.7

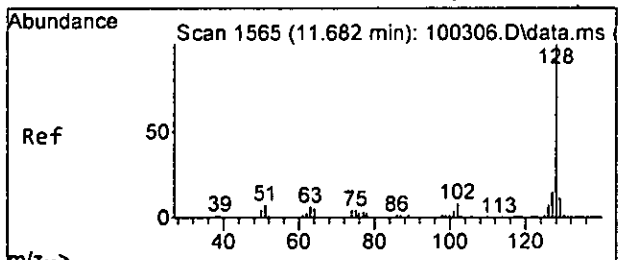
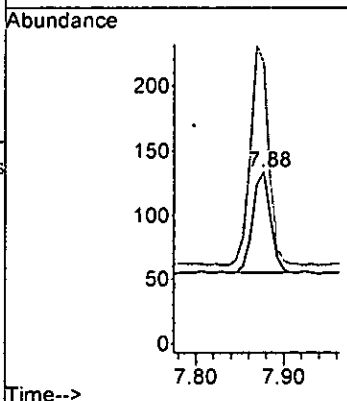
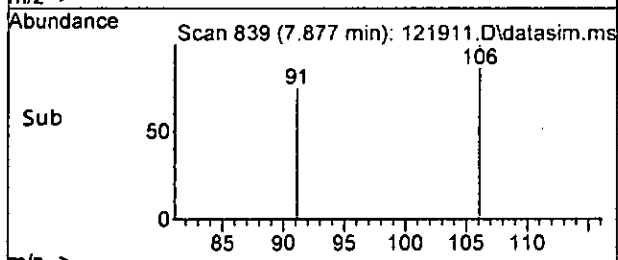
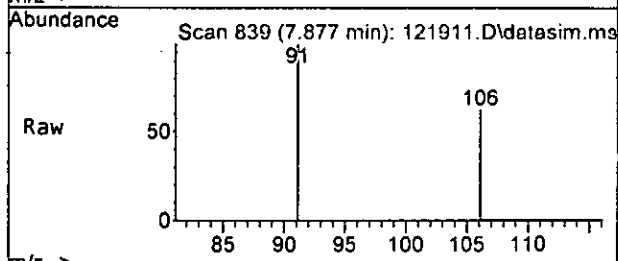






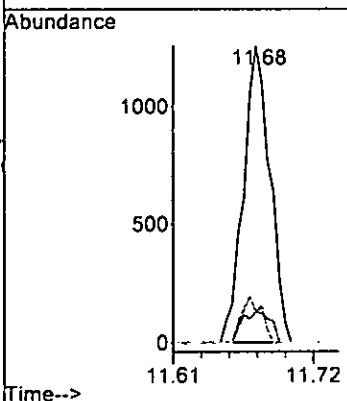
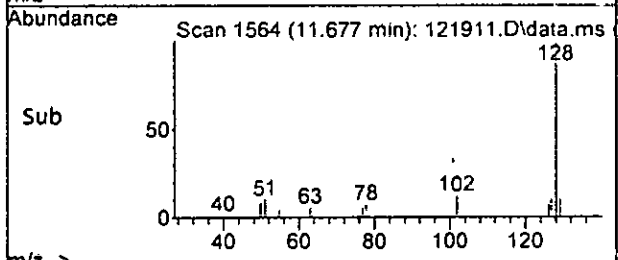
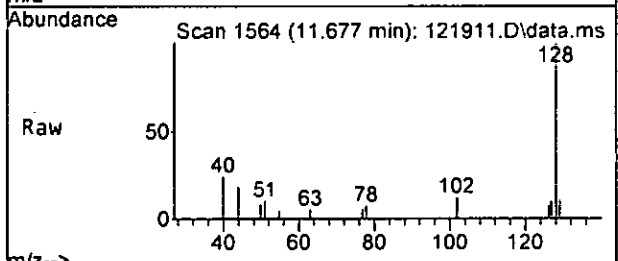
#52  
 o-Xylene  
 Concen: 0.034 ppb  
 RT: 7.88 min Scan# 839  
 Delta R.T. -0.008 min  
 Lab File: 121911.D  
 Acq: 19 Dec 2022 11:30 am

Tgt Ion	Resp	Lower	Upper
106	112		
91	196.2	160.3	220.3



#75  
 Naphthalene  
 Concen: 0.209 ppb  
 RT: 11.68 min Scan# 1564  
 Delta R.T. -0.004 min  
 Lab File: 121911.D  
 Acq: 19 Dec 2022 11:30 am

Tgt Ion	Resp	Lower	Upper
128	1744		
129	10.3	0.0	41.9
127	10.4	0.0	43.8



Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121911.D  
 Acq On : 19 Dec 2022 11:30 am  
 Operator : LM  
 Sample : 212059-03 rr  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 19 12:49:10 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.62	96	80046	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.26	117	55562	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	32055	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	22999	10.890	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	108.90%		
30) 1,2-Dichloroethane-d4	4.35	102	4915	10.178	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	101.80%		
35) Toluene-d8	5.97	98	68836	8.957	ppb	-0.01	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	89.60%		
57) 4-Bromofluorobenzene	8.37	95	25664	9.483	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	94.80%		
Target Compounds							
							Qvalue
2) Ethanol	0.00		0		N.D.		
4) Dichlorodifluoromethane	0.00		0		N.D.		
5) Chloromethane	1.23	50	1673		N.D.		
6) Vinyl chloride	0.00		0		N.D. d		
7) Bromomethane	0.00		0		N.D.		
8) Chloroethane	0.00		0		N.D.		
9) Trichlorofluoromethane	0.00		0		N.D.		
10) 2-Propanol	2.39	45	399		No Calib		
11) Acetone	2.26	58	591	1.983	ppb #	62	
12) 1,1-Dichloroethene	0.00		0		N.D.		
13) Hexane	3.05	57	259		N.D.		
14) Methylene chloride	2.61	84	7958	3.695	ppb	93	
15) t-Butyl alcohol (TBA)	0.00		0		N.D.		
16) Methyl t-butyl ether (...)	0.00		0		N.D.		
17) trans-1,2-Dichloroethene	0.00		0		N.D.		
18) Diisopropyl ether (DIPE)	3.16	45	89		N.D.		
19) 1,1-Dichloroethane	0.00		0		N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.		
21) 2,2-Dichloropropane	0.00		0		N.D.		
22) cis-1,2-Dichloroethene	0.00		0		N.D.		
23) Chloroform	3.94	83	430	0.113	ppb	98	
24) 2-Butanone (MEK)	3.71	43	396	0.271	ppb	63	
25) t-Amyl methyl ether (T...)	0.00		0		N.D.		
26) 1,2-Dichloroethane (EDC)	4.41	62	88	0.027	ppb	97	
27) 1,1,1-Trichloroethane	0.00		0		N.D.		
28) 1,1-Dichloropropene	0.00		0		N.D.		
29) Carbon tetrachloride	0.00		0		N.D.		
31] Benzene	4.39	78	350	0.044	ppb	99	
32) Trichloroethene	0.00		0		N.D.		
33) 1,2-Dichloropropane	0.00		0		N.D.		
34) Bromodichloromethane	0.00		0		N.D.		
36) Dibromomethane	0.00		0		N.D.		

Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121911.D  
 Acq On : 19 Dec 2022 11:30 am  
 Operator : LM  
 Sample : 212059-03 rr  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

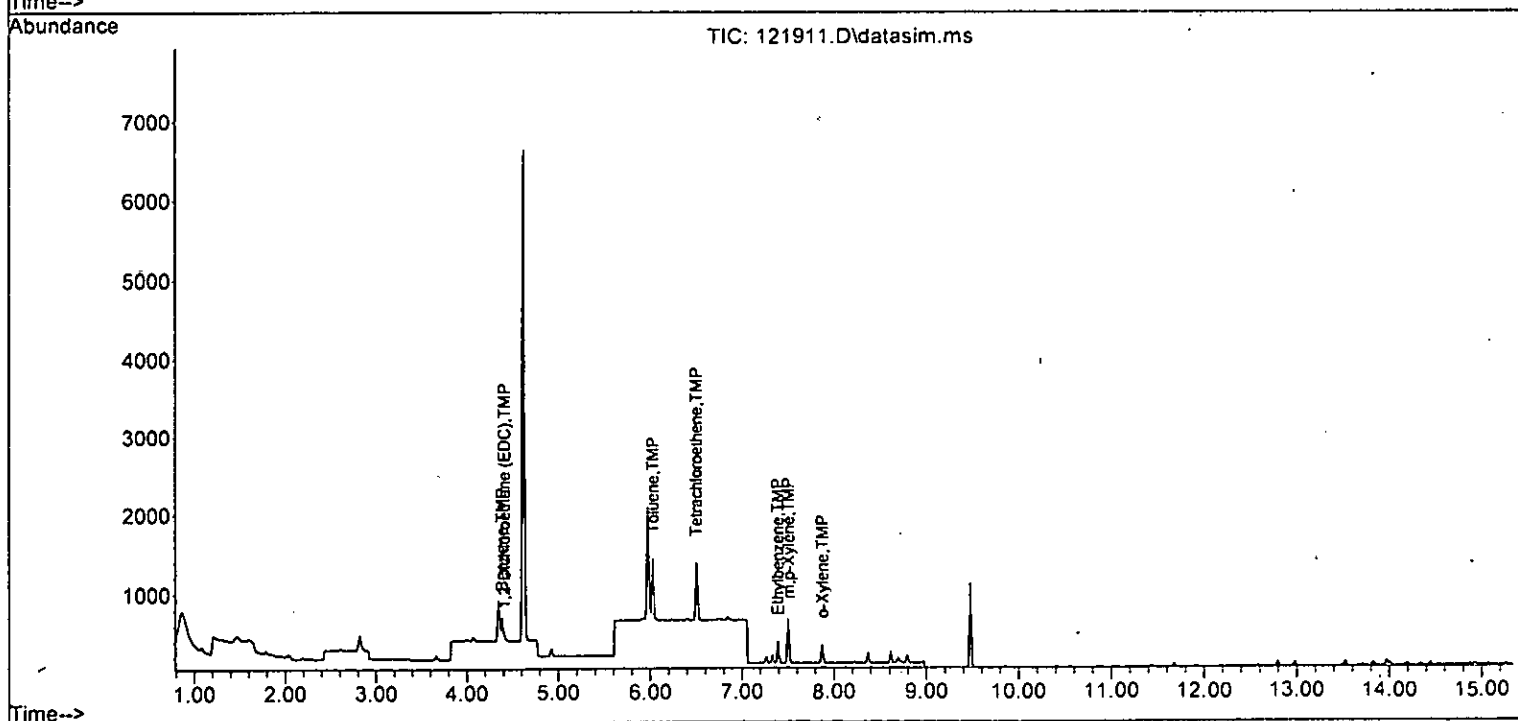
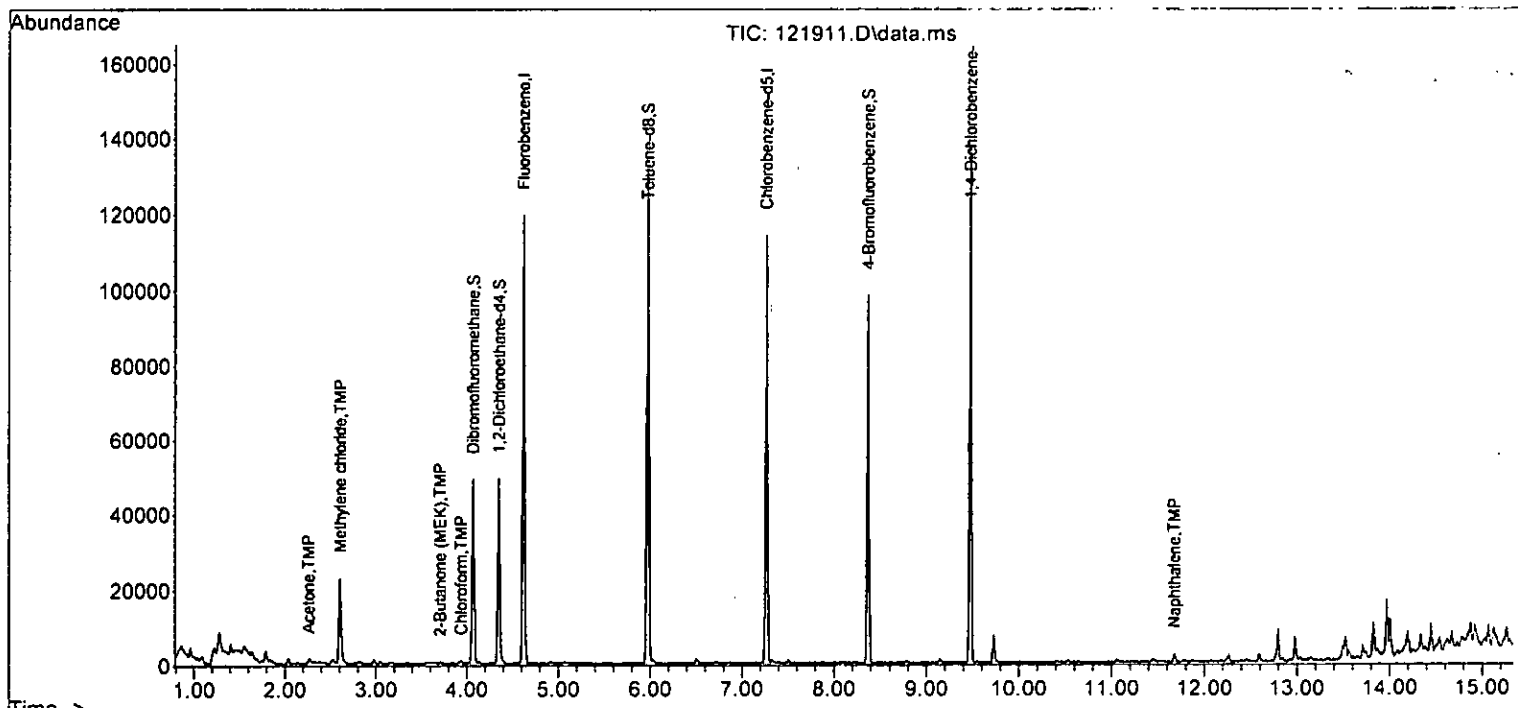
Quant Time: Dec 19 12:49:10 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.03	92	407	0.085	ppb	99
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D.	
43) 2-Hexanone	6.63	43	96		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.50	164	287	0.151	ppb	95
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.39	91	298	0.033	ppb	97
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.51	106	264	0.078	ppb	99
52] o-Xylene	7.88	106	112	0.034	ppb	96
53) Styrene	7.89	104	86		N.D.	
54) Isopropylbenzene	8.22	105	111		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.62	91	216		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.79	105	268		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.62	91	216		N.D.	
64) 4-Chlorotoluene	8.80	91	99		N.D.	
65) tert-Butylbenzene	9.14	119	81		N.D.	
66) 1,2,4-Trimethylbenzene	9.15	105	751		N.D.	
67) sec-Butylbenzene	9.31	105	103		N.D.	
68) p-Isopropyltoluene	9.46	119	121		N.D.	
69) 1,3-Dichlorobenzene	9.40	146	56		N.D.	
70) 1,4-Dichlorobenzene	9.50	146	56		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	11.44	180	132		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.68	128	1744	0.209	ppb	94
76) 1,2,3-Trichlorobenzene	11.92	180	101		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-19-22\  
 Data File : 121911.D  
 Acq On : 19 Dec 2022 11:30 am  
 Operator : LM  
 Sample : 212059-03 rr  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 19 12:49:10 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120717.D  
 Acq On : 07 Dec 2022 01:52 pm  
 Operator : LM  
 Sample : 212059-04  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

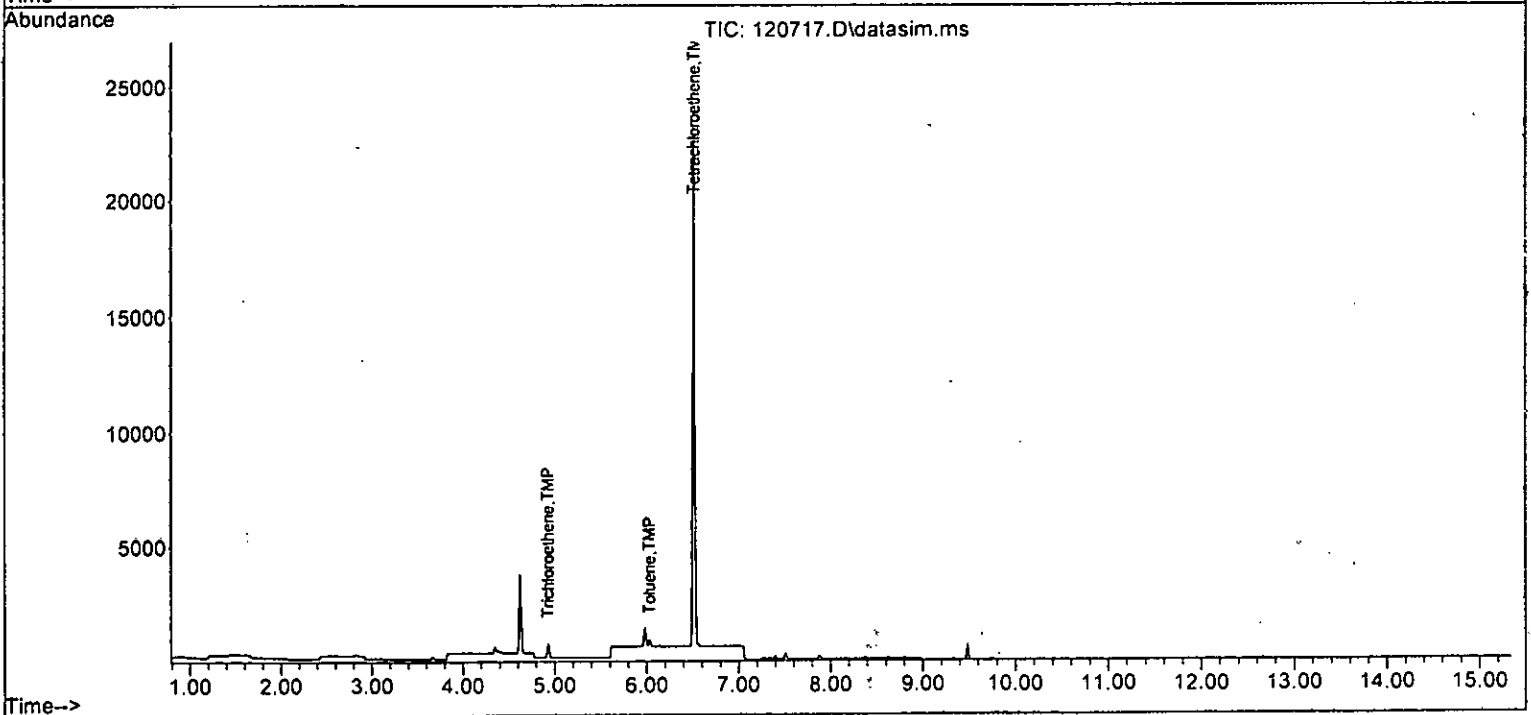
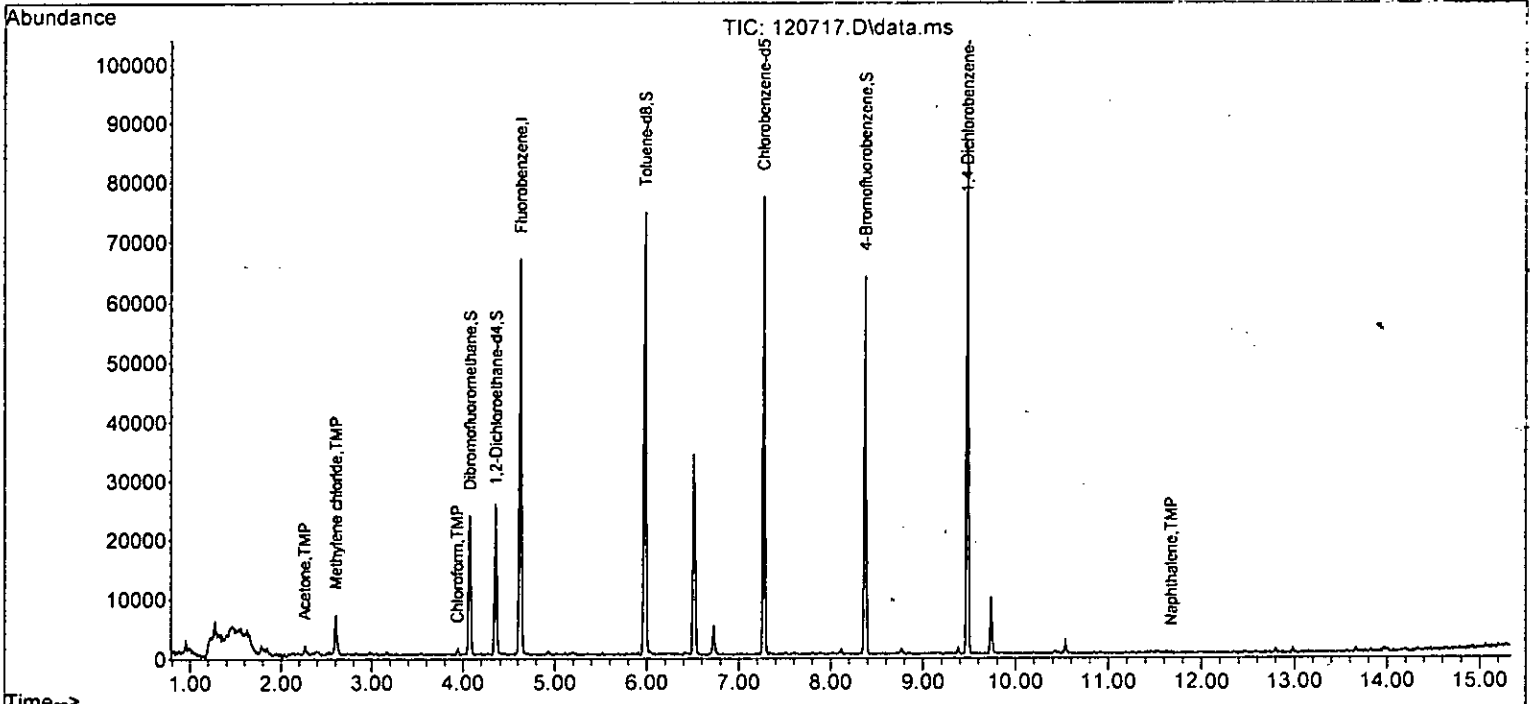
Quant Time: Dec 07 14:43:25 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

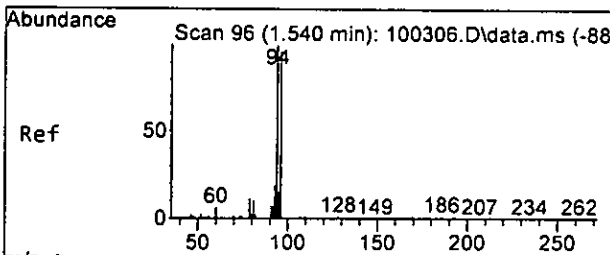
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	44554	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35692	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19345	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11787	10.038	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	100.40%
30) 1,2-Dichloroethane-d4	4.36	102	2629	9.898	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	99.00%
35) Toluene-d8	5.98	98	43127	9.924	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	99.20%
57) 4-Bromofluorobenzene	8.38	95	16816	10.060	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	100.60%
Target Compounds						
						Qvalue
7) Bromomethane	1.53	94	72	Below Cal	#	18
11) Acetone	2.26	58	498	3.582	ppb	96
13) Hexane	3.05	57	60	Below Cal	#	40
14) Methylene chloride	2.61	84	2207	1.143	ppb	80
21) 2,2-Dichloropropane	3.67	77	63	Below Cal		54
23) Chloroform	3.94	83	842	0.397	ppb	69
24) 2-Butanone (MEK)	3.71	43	267	Below Cal		63
32] Trichloroethene	4.93	95	249	0.146	ppb	98
40] Toluene	6.03	92	155	0.023	ppb	97
45] Tetrachloroethene	6.51	164	7293	6.153	ppb	100
49] Ethylbenzene	7.40	91	136	Below Cal		98
51] m,p-Xylene	7.51	106	126	Below Cal		97
75) Naphthalene	11.68	128	291	0.063	ppb	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
Data File : 120717.D  
Acq On : 07 Dec 2022 01:52 pm  
Operator : LM  
Sample : 2120S9-04  
Misc : water  
ALS Vial : 13 Sample Multiplier: 1  
InstName : GCMS11

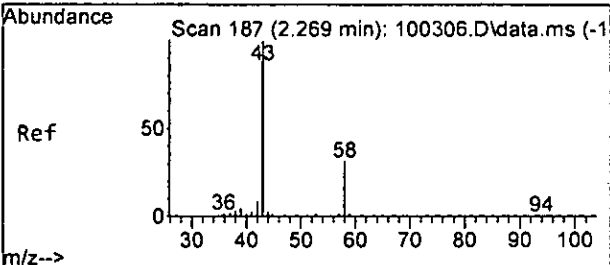
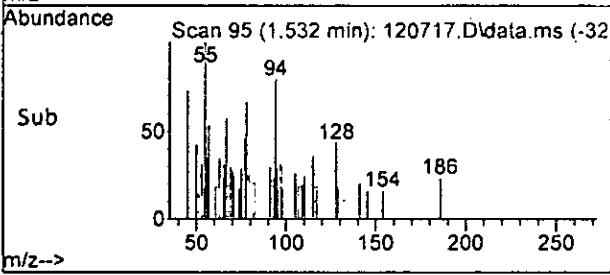
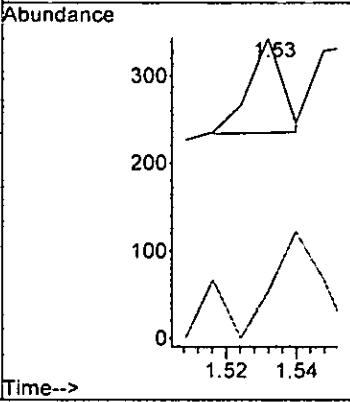
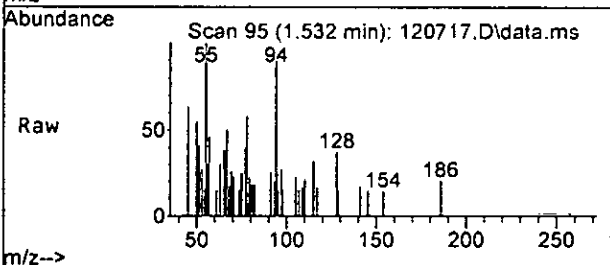
Quant Time: Dec 07 14:43:25 2022  
Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Mon Dec 05 13:11:58 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M





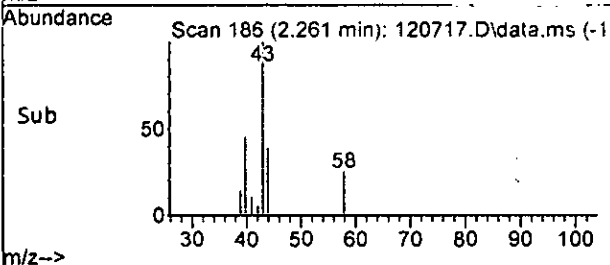
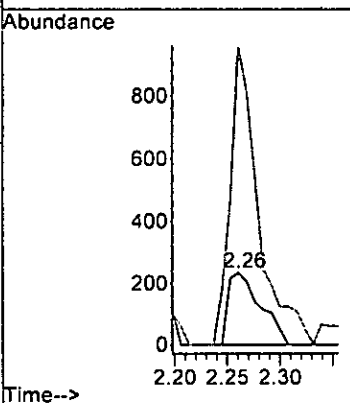
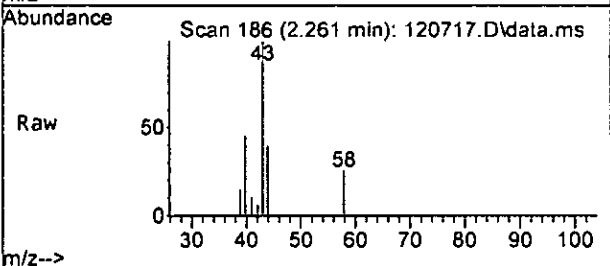
#7  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.53 min Scan# 95  
 Delta R.T. -0.008 min  
 Lab File: 120717.D  
 Acq: 07 Dec 2022 01:52 pm

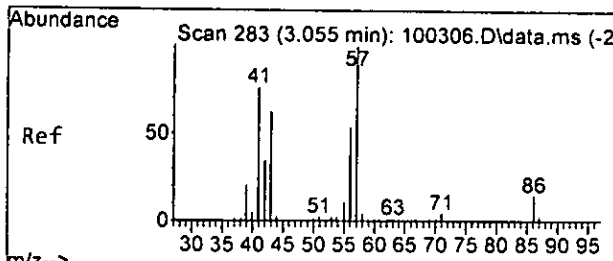
Tgt Ion: 94 Resp: 72  
 Ion Ratio Lower Upper  
 94 100  
 96 0.0 33.9 93.9#



#11  
 Acetone  
 Concen: 3.582 ppb  
 RT: 2.26 min Scan# 186  
 Delta R.T. -0.008 min  
 Lab File: 120717.D  
 Acq: 07 Dec 2022 01:52 pm

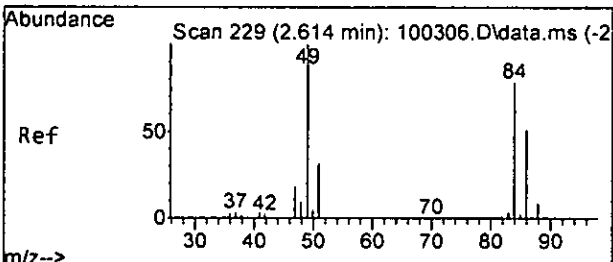
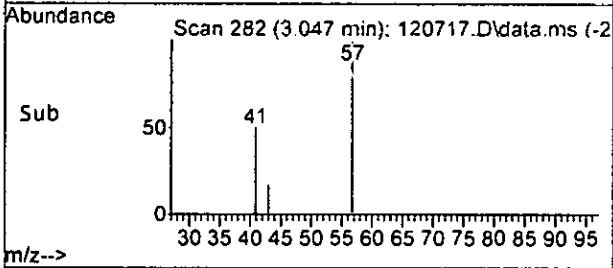
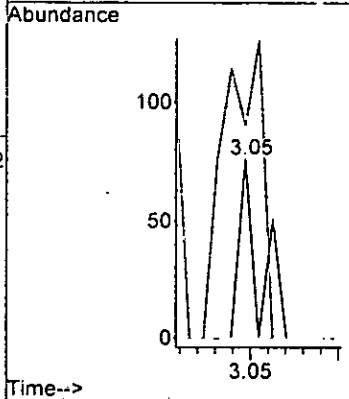
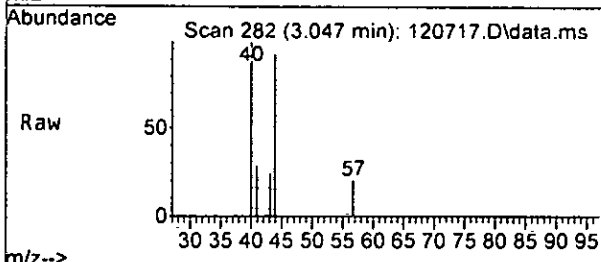
Tgt Ion: 58 Resp: 498  
 Ion Ratio Lower Upper  
 58 100  
 43 359.2 319.7 379.7





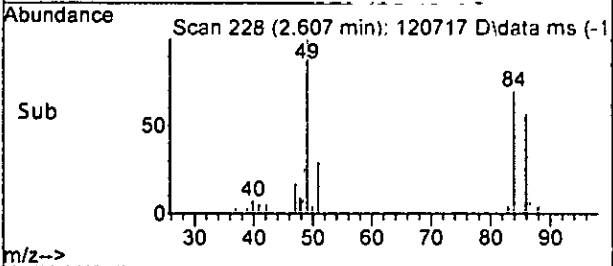
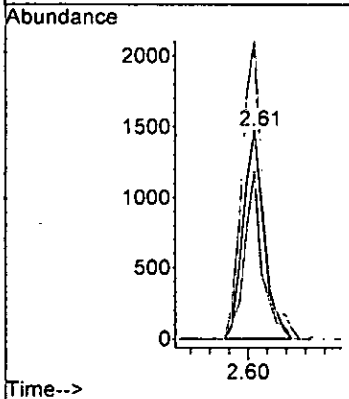
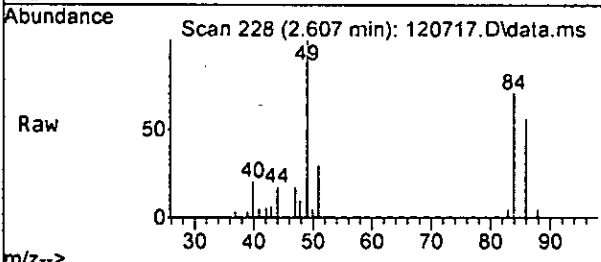
#13  
 Hexane  
 Concen: Below Cal  
 RT: 3.05 min Scan# 282  
 Delta R.T. -0.008 min  
 Lab File: 120717.D  
 Acq: 07 Dec 2022 01:52 pm

Tgt Ion	Resp	Lower	Upper
57	100		
43	118.4	36.5	96.5#
86	0.0	0.0	42.7

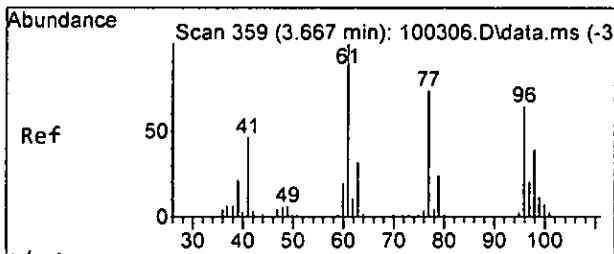


#14  
 Methylene chloride  
 Concen: 1.143 ppb  
 RT: 2.61 min Scan# 228  
 Delta R.T. -0.000 min  
 Lab File: 120717.D  
 Acq: 07 Dec 2022 01:52 pm

Tgt Ion	Resp	Lower	Upper
84	100		
86	80.5	30.4	90.4
49	142.5	93.0	153.0

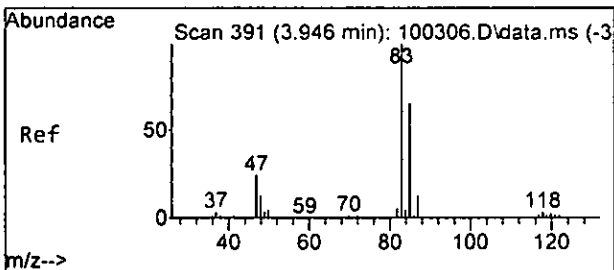
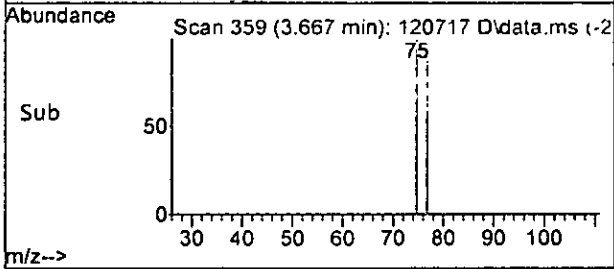
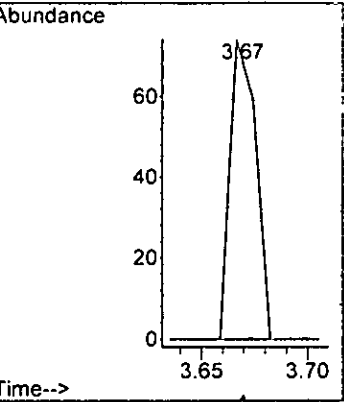
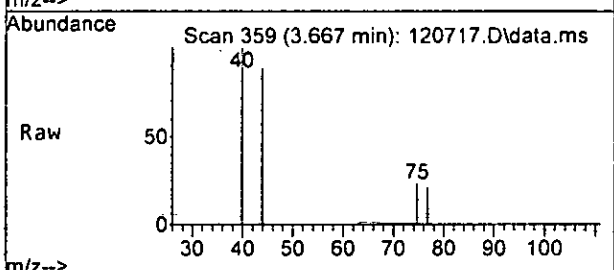






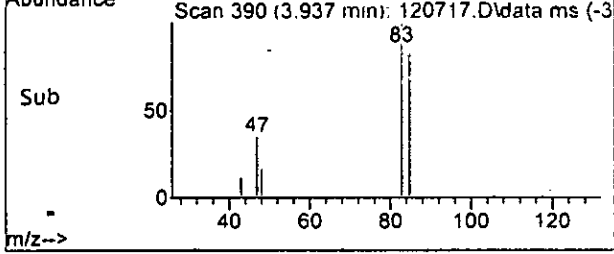
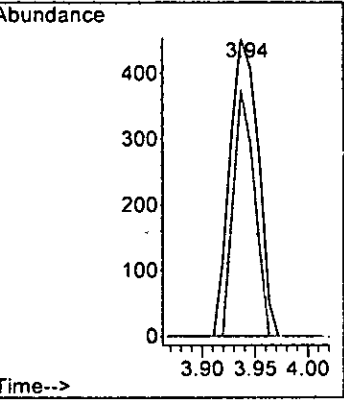
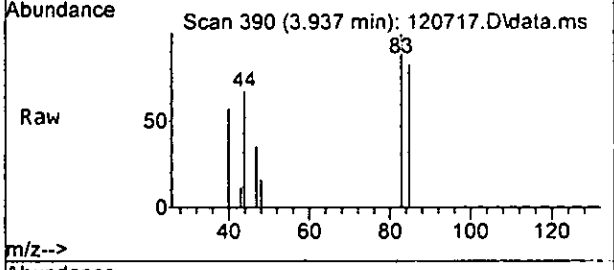
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.67 min Scan# 359  
 Delta R.T. -0.000 min  
 Lab File: 120717.D  
 Acq: 07 Dec 2022 01:52 pm

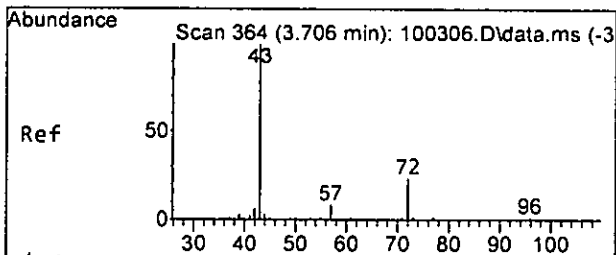
Tgt Ion:	77	Resp:	63
Ion Ratio	Lower	Upper	
77	100		
97	0.0	0.0	51.5



#23  
 Chloroform  
 Concen: 0.397 ppb  
 RT: 3.94 min Scan# 390  
 Delta R.T. 0.000 min  
 Lab File: 120717.D  
 Acq: 07 Dec 2022 01:52 pm

Tgt Ion:	83	Resp:	842
Ion Ratio	Lower	Upper	
83	100		
85	82.4	29.0	89.0

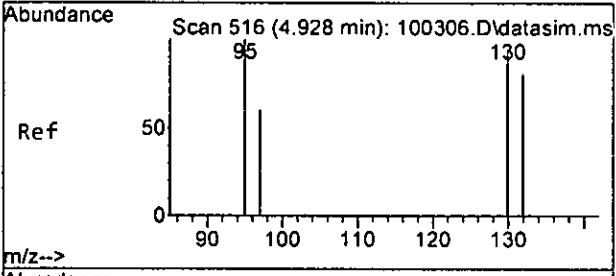
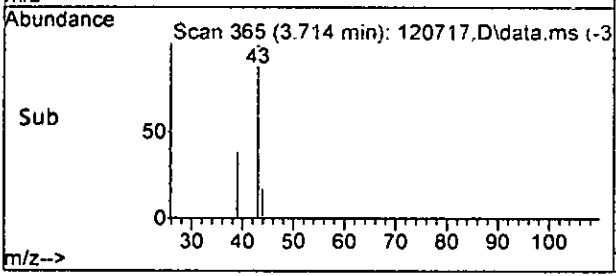
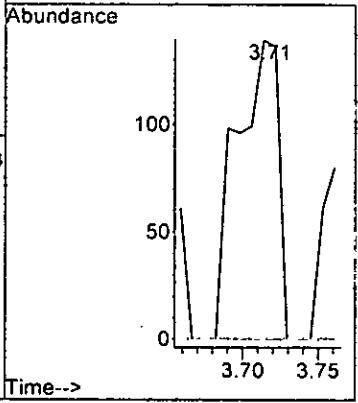
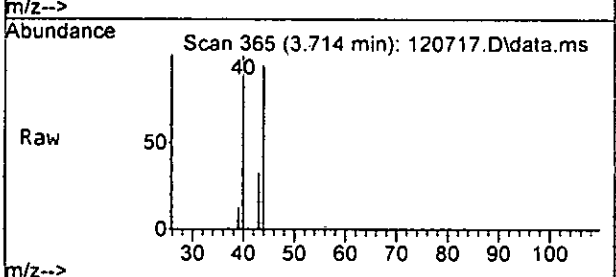




#24  
 2-Butanone (MEK)  
 Concen: Below Cal  
 RT: 3.71 min Scan# 365  
 Delta R.T. 0.008 min  
 Lab File: 120717.D  
 Acq: 07 Dec 2022 01:52 pm

Tgt Ion: 43 Resp: 267

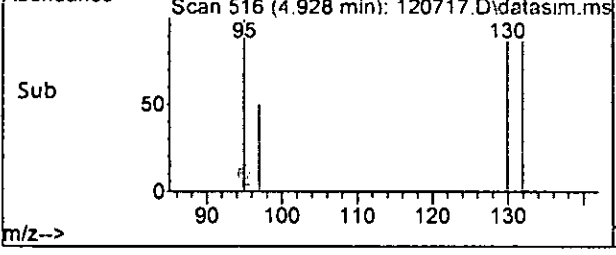
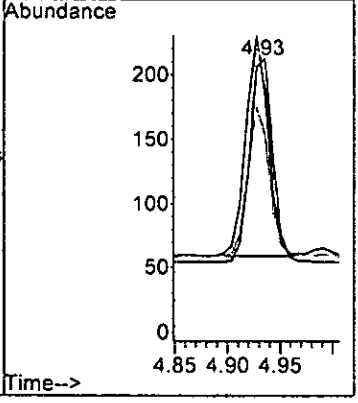
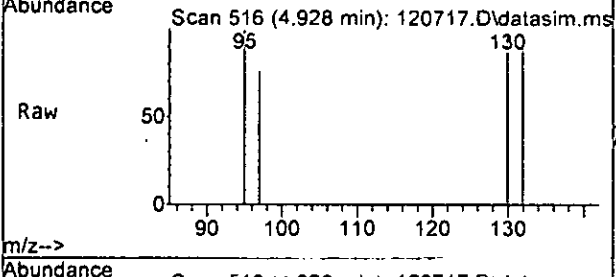
Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	49.9
57	0.0	0.0	28.2

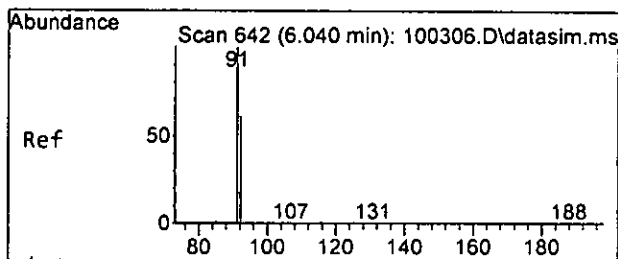


#32  
 Trichloroethene  
 Concen: 0.146 ppb  
 RT: 4.93 min Scan# 516  
 Delta R.T. -0.000 min  
 Lab File: 120717.D  
 Acq: 07 Dec 2022 01:52 pm

Tgt Ion: 95 Resp: 249

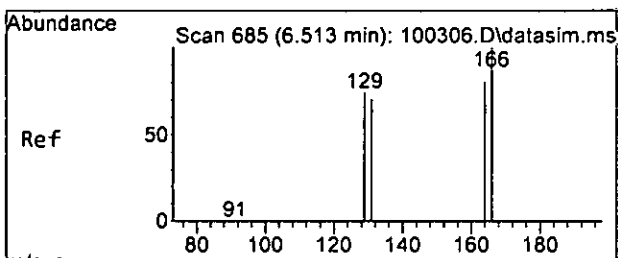
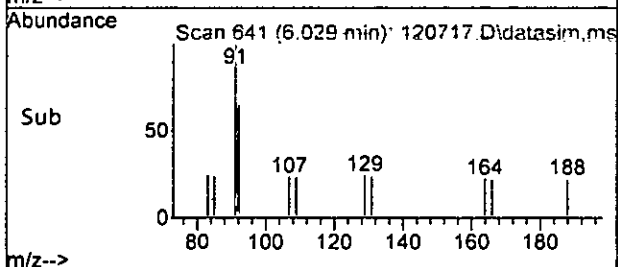
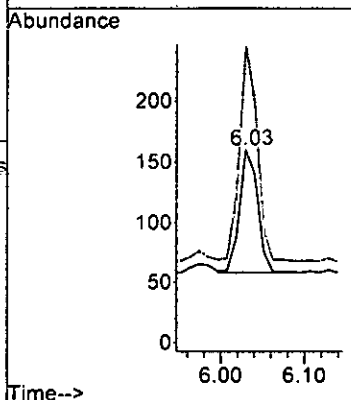
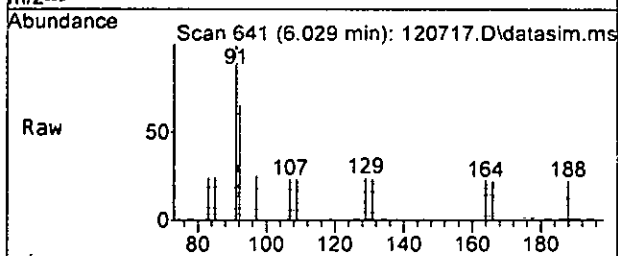
Ion	Ratio	Lower	Upper
95	100		
97	67.8	33.6	93.6
130	96.5	65.5	125.5
132	88.9	57.2	117.2





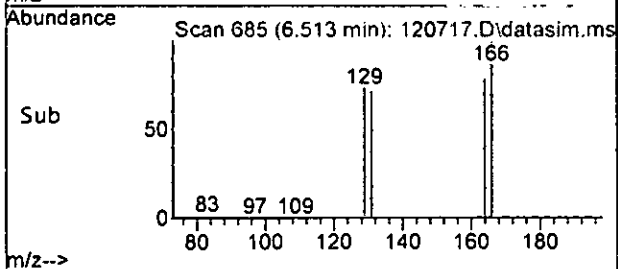
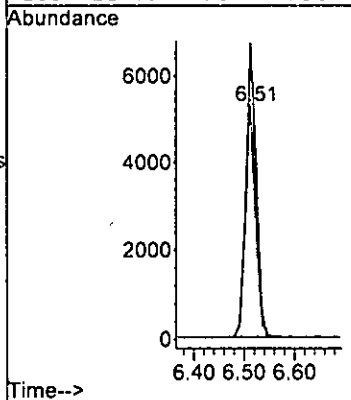
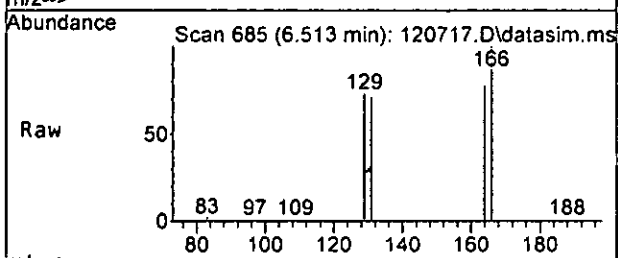
#40  
Toluene  
Concen: 0.023 ppb  
RT: 6.03 min Scan# 641  
Delta R.T. -0.001 min  
Lab File: 120717.D  
Acq: 07 Dec 2022 01:52 pm

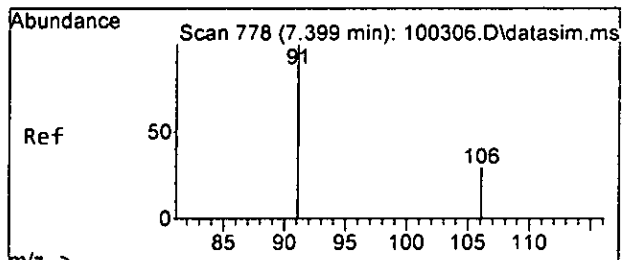
Tgt Ion: 92 Resp: 155  
Ion Ratio Lower Upper  
92 100  
91 174.5 148.8 208.8



#45  
Tetrachloroethene  
Concen: 6.153 ppb  
RT: 6.51 min Scan# 685  
Delta R.T. 0.000 min  
Lab File: 120717.D  
Acq: 07 Dec 2022 01:52 pm

Tgt Ion: 164 Resp: 7293  
Ion Ratio Lower Upper  
164 100  
129 93.1 62.5 122.5  
131 90.6 60.3 120.3  
166 127.9 98.4 158.4

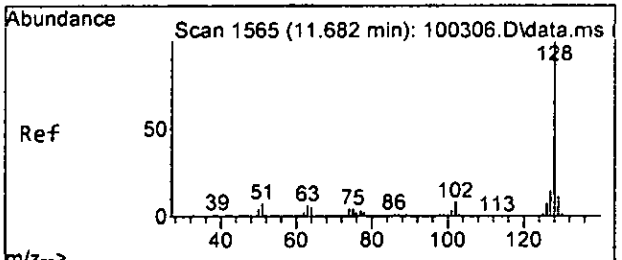
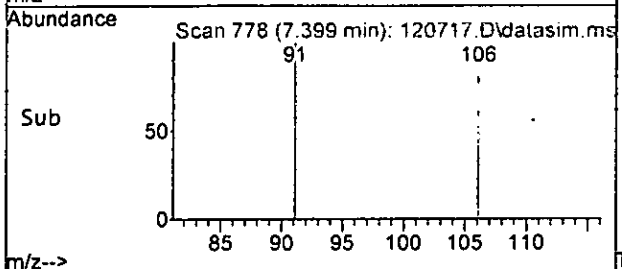
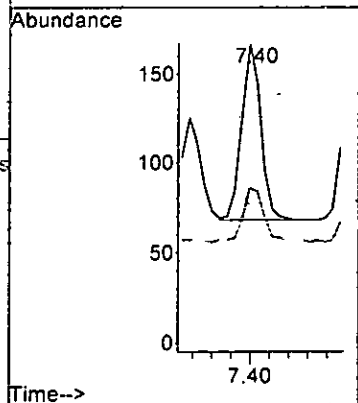
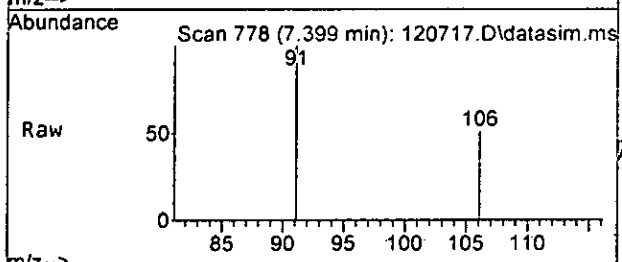




#49  
Ethylbenzene  
Concen: Below Cal  
RT: 7.40 min Scan# 778  
Delta R.T. -0.001 min  
Lab File: 120717.D  
Acq: 07 Dec 2022 01:52 pm

Tgt Ion: 91 Resp: 136

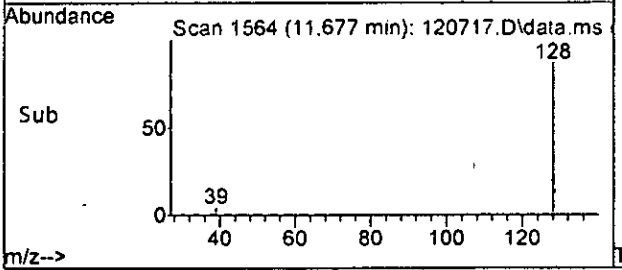
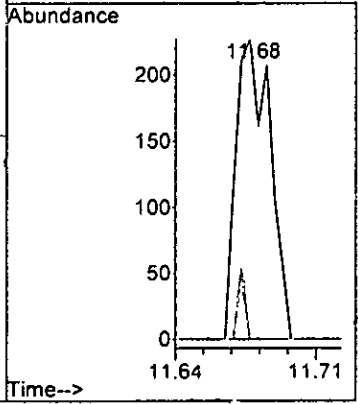
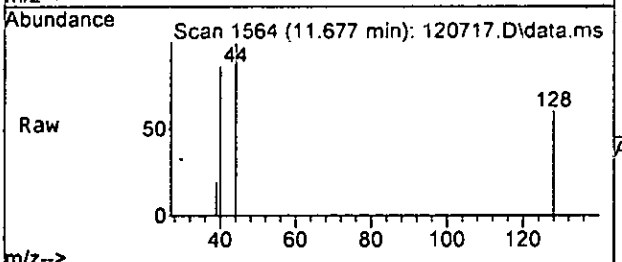
Ion	Ratio	Lower	Upper
91	100		
106	29.3	0.0	58.4



#75  
Naphthalene  
Concen: 0.063 ppb  
RT: 11.68 min Scan# 1564  
Delta R.T. -0.005 min  
Lab File: 120717.D  
Acq: 07 Dec 2022 01:52 pm

Tgt Ion: 128 Resp: 291

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	41.7
127	0.0	0.0	43.5



Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120717.D  
 Acq On : 07 Dec 2022 01:52 pm  
 Operator : LM  
 Sample : 212059-04  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 07 14:43:25 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	44554	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35692	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19345	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11787	10.038	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.40%	
30) 1,2-Dichloroethane-d4	4.36	102	2629	9.898	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	99.00%	
35) Toluene-d8	5.98	98	43127	9.924	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	99.20%	
57) 4-Bromofluorobenzene	8.38	95	16816	10.060	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	100.60%	
Target Compounds						
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.23	50	1188	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) Bromomethane	1.53	94	72	Below Cal	#	18
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	2.40	45	639	No Calib		
11) Acetone	2.26	58	498	3.582	ppb	96
12) 1,1-Dichloroethene	0.00		0	N.D.		
13) Hexane	3.05	57	60	Below Cal	#	40
14) Methylene chloride	2.61	84	2207	1.143	ppb	80
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17) trans-1,2-Dichloroethene	0.00		0	N.D.		
18) Diisopropyl ether (DIPE)	3.16	45	142	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.67	77	63	Below Cal		54
22) cis-1,2-Dichloroethene	0.00		0	N.D.		
23) Chloroform	3.94	83	842	0.397	ppb	69
24) 2-Butanone (MEK)	3.71	43	267	Below Cal		63
25) t-Amyl methyl ether (T...)	0.00		0	N.D.		
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.		
27) 1,1,1-Trichloroethane	0.00		0	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31) Benzene	4.39	78	126	N.D.		
32) Trichloroethene	4.93	95	249	0.146	ppb	98
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120717.D  
 Acq On : 07 Dec 2022 01:52 pm  
 Operator : LM  
 Sample : 212059-04  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

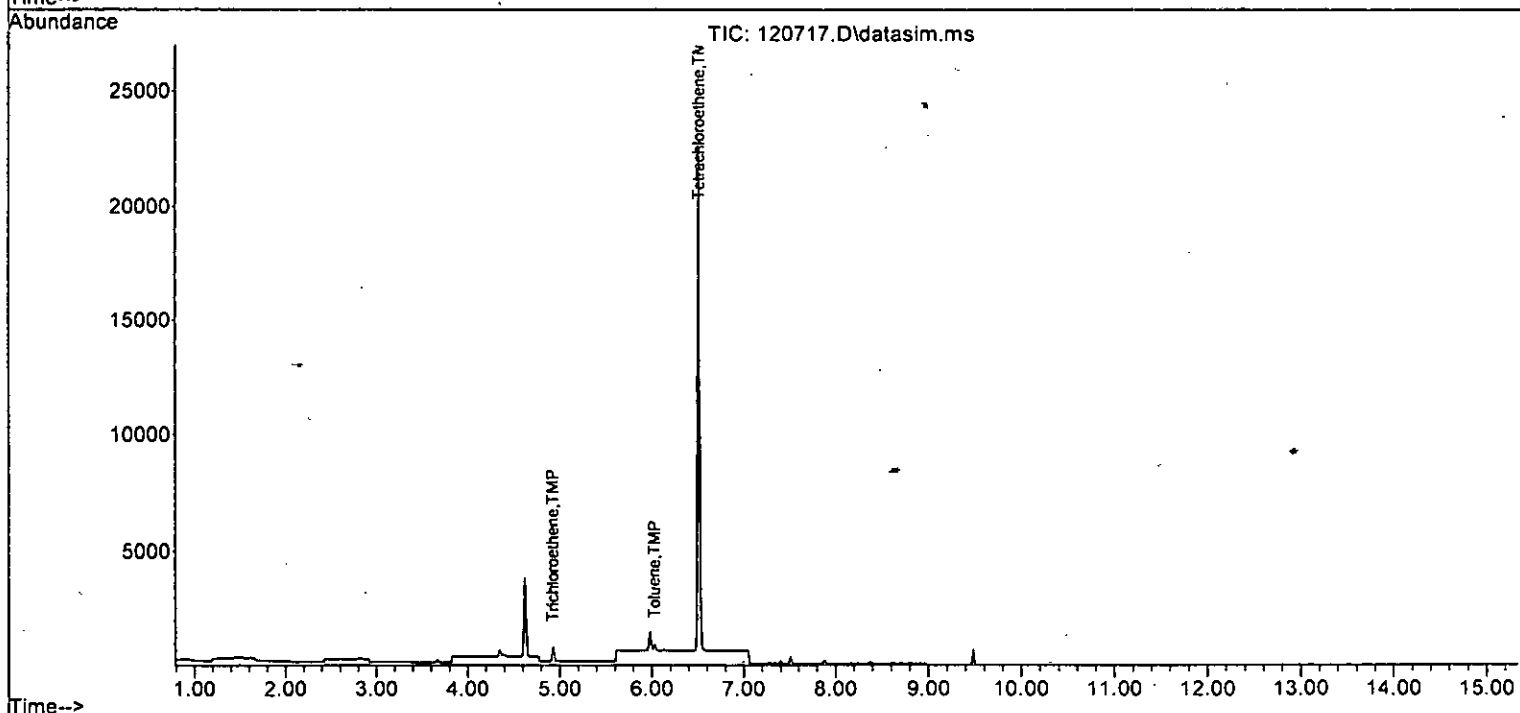
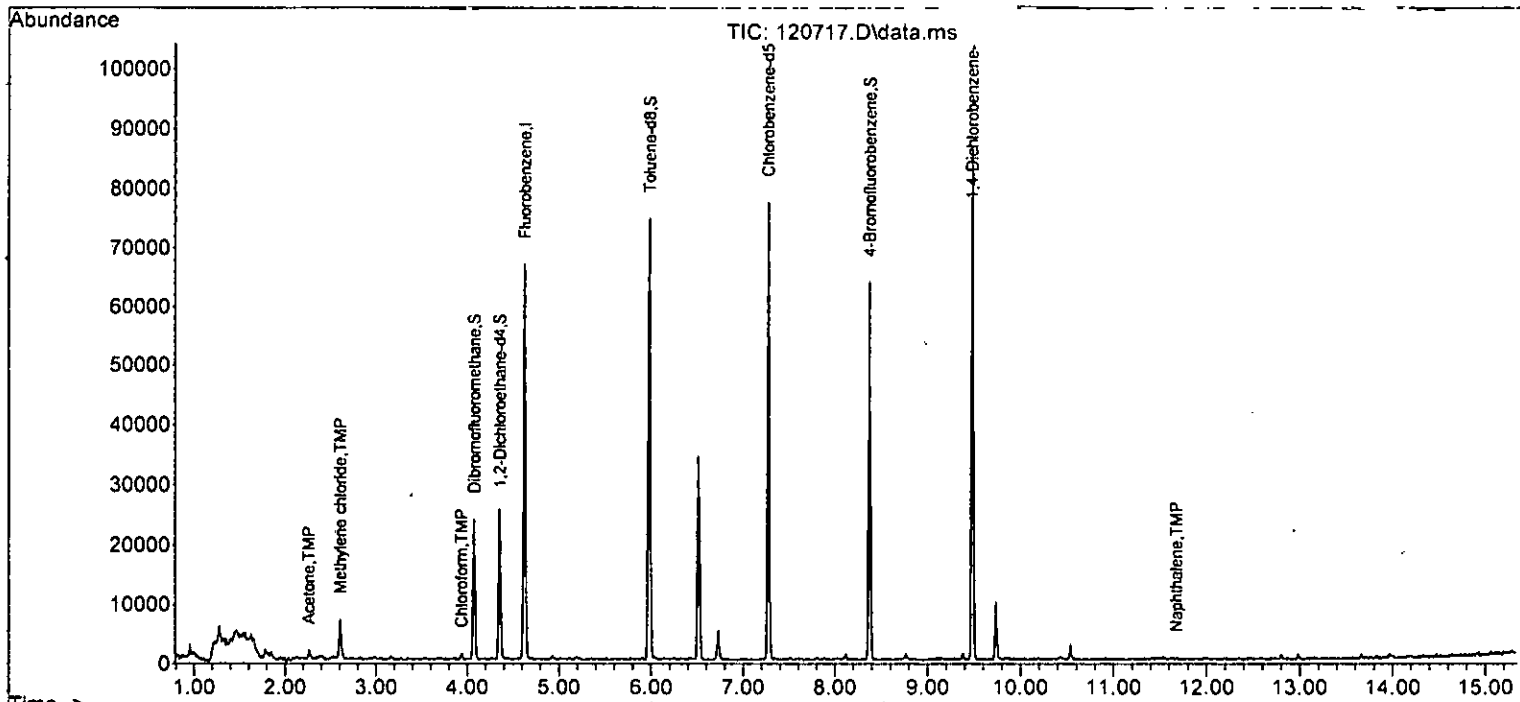
Quant Time: Dec 07 14:43:25 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.03	92	155	0.023	ppb	97
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D. d	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.51	164	7293	6.153	ppb	100
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.40	91	136	Below Cal		98
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.51	106	126	Below Cal		97
52) o-Xylene	7.88	106	70		N.D.	
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.62	91	63		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.72	105	128		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.62	91	63		N.D.	
64) 4-Chlorotoluene	8.62	91	63		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.15	105	199		N.D.	
67) sec-Butylbenzene	9.15	105	199		N.D.	
68) p-Isopropyltoluene	0.00		0		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.68	128	291	0.063	ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
Data File : 120717.D  
Acq On : 07 Dec 2022 01:52 pm  
Operator : LM  
Sample : 212059-04  
Misc : water  
ALS Vial : 13 Sample Multiplier: 1  
InstName : GCMS11

Quant Time: Dec 07 14:43:25 2022  
Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Mon Dec 05 13:11:58 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120911.D  
 Acq On : 09 Dec 2022 12:48 pm  
 Operator : lm  
 Sample : 212059-05 rr  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:58 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

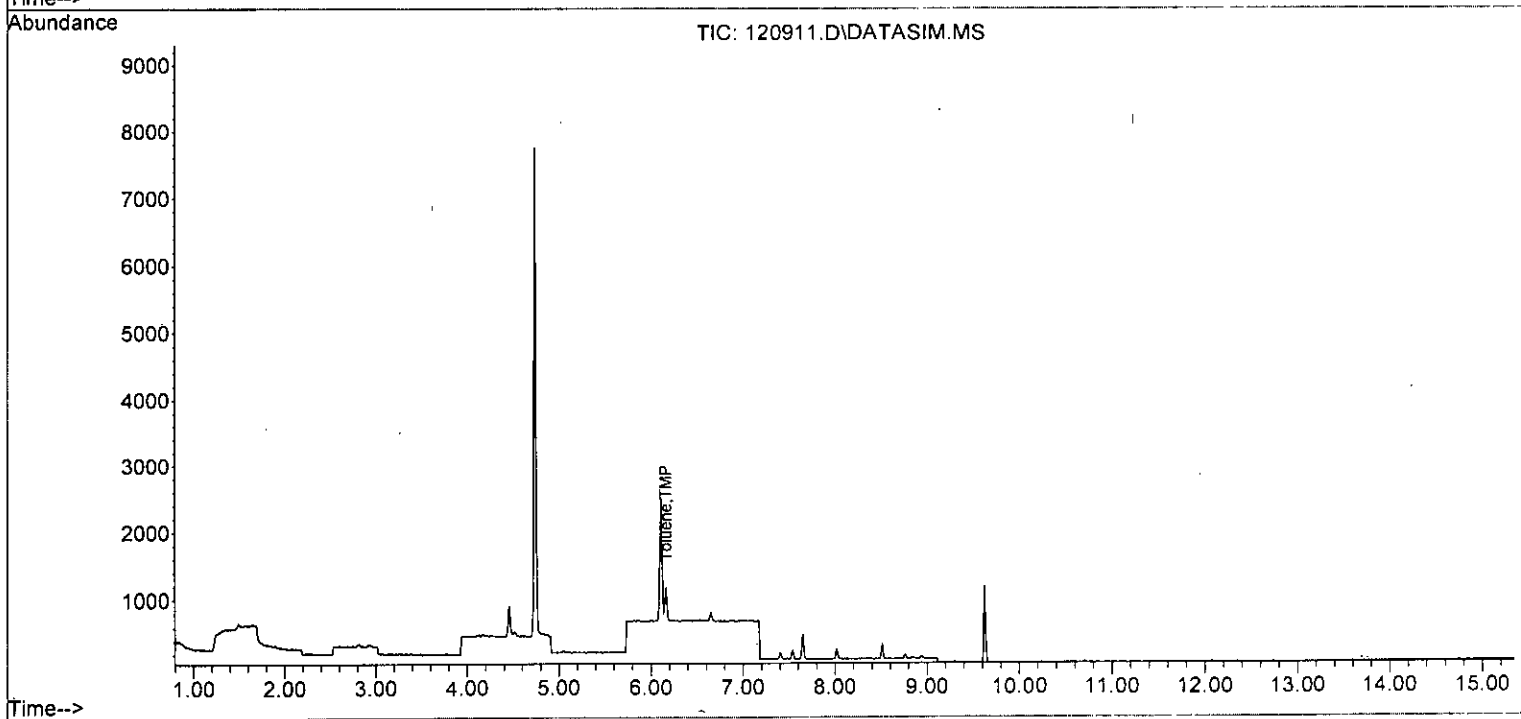
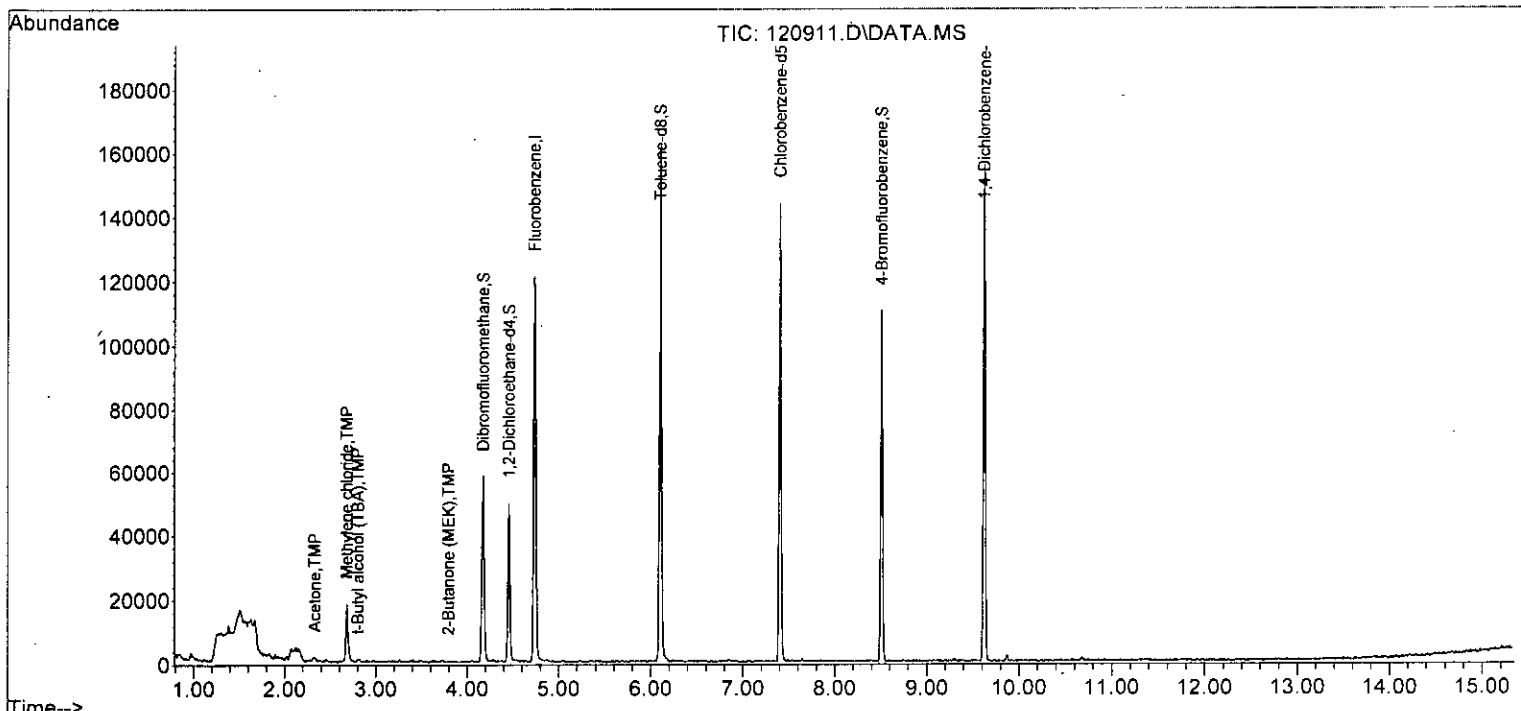
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	99243	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	71071	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37956	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	27190	8.600	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	86.00%	
30) 1,2-Dichloroethane-d4	4.45	102	5455	9.206	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	92.10%	
35) Toluene-d8	6.10	98	92614	10.382	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	103.80%	
57) 4-Bromofluorobenzene	8.51	95	28794	12.519	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	125.20%	
Target Compounds						
						Qvalue
11) Acetone	2.33	58	514	3.914	ppb	91
13) Hexane	3.15	57	32	Below Cal	#	30
14) Methylene chloride	2.68	84	7715	2.554	ppb	91
15) t-Butyl alcohol (TBA)	2.81	59	681	3.077	ppb	73
21) 2,2-Dichloropropane	3.73	77	93	Below Cal	#	43
24) 2-Butanone (MEK)	3.79	43	117	0.715	ppb	57
31] Benzene	4.50	78	63	Below Cal		93
33) 1,2-Dichloropropane	5.21	63	33	Below Cal	#	81
40] Toluene	6.16	92	256	0.045	ppb	99
49] Ethylbenzene	7.54	91	138	Below Cal		99
51] m,p-Xylene	7.65	106	186	Below Cal		92
52] o-Xylene	8.02	106	83	Below Cal		99

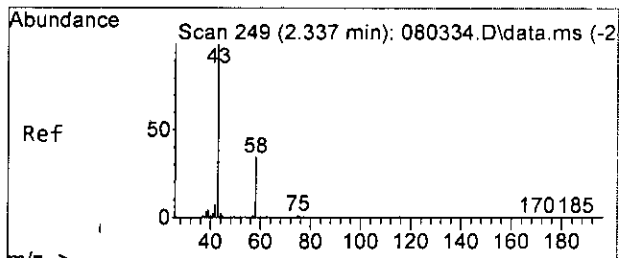
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120911.D  
 Acq On : 09 Dec 2022 12:48 pm  
 Operator : lm  
 Sample : 212059-05 rr  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS13

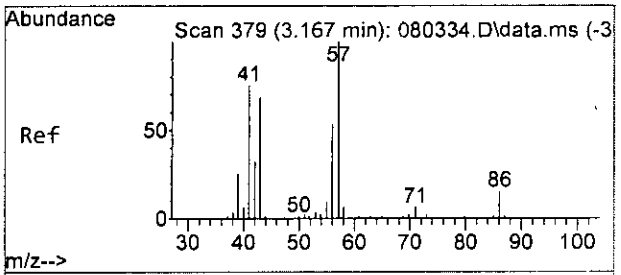
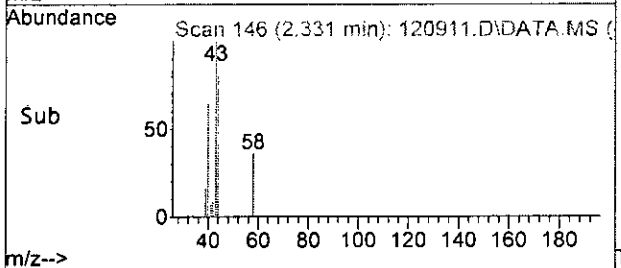
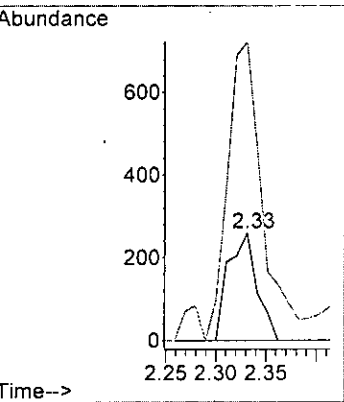
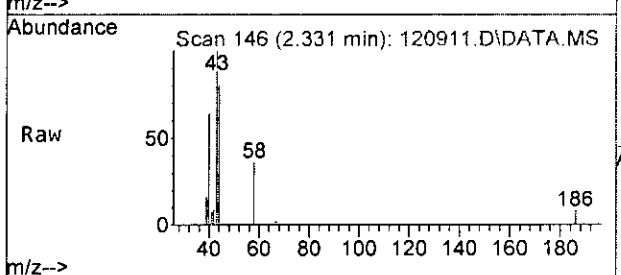
Quant Time: Dec 12 07:58:58 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M





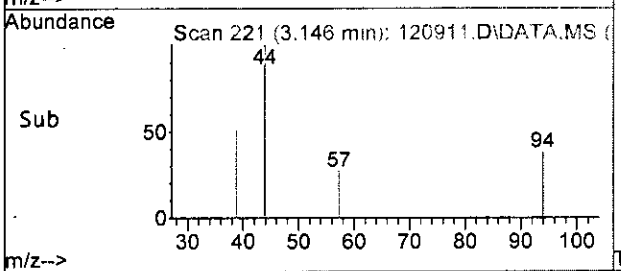
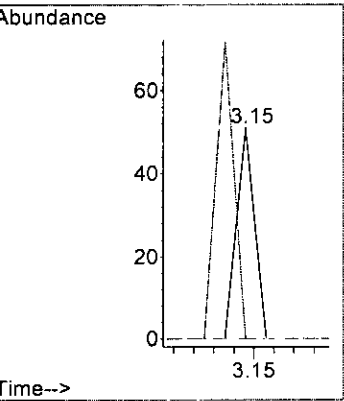
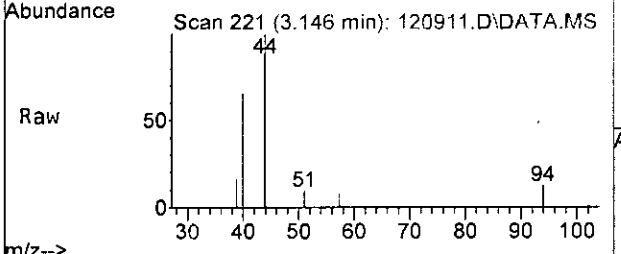
#11  
 Acetone  
 Concen: 3.914 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 120911.D  
 Acq: 09 Dec 2022 12:48 pm

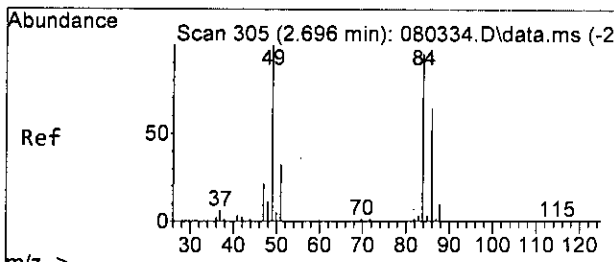
Tgt Ion: 58 Resp: 514  
 Ion Ratio Lower Upper  
 58 100  
 43 359.5 350.8 410.8



#13  
 Hexane  
 Concen: Below Cal  
 RT: 3.15 min Scan# 221  
 Delta R.T. -0.011 min  
 Lab File: 120911.D  
 Acq: 09 Dec 2022 12:48 pm

Tgt Ion: 57 Resp: 32  
 Ion Ratio Lower Upper  
 57 100  
 43 0.0 28.8 88.8#  
 86 0.0 0.0 51.0

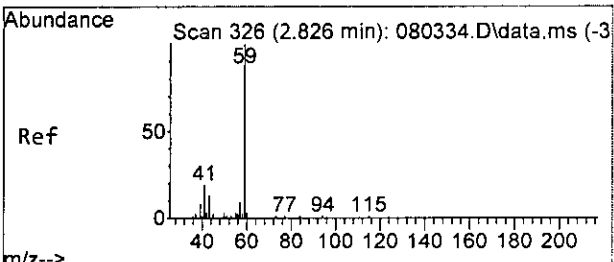
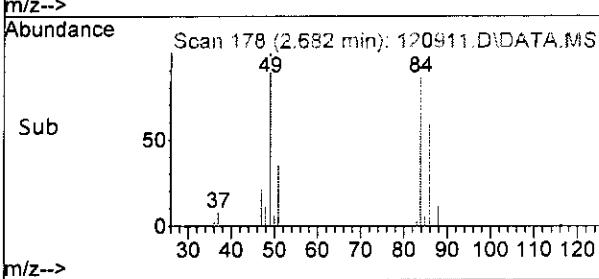
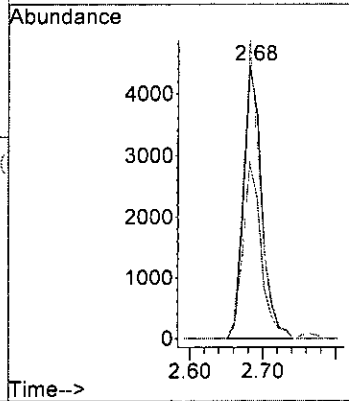
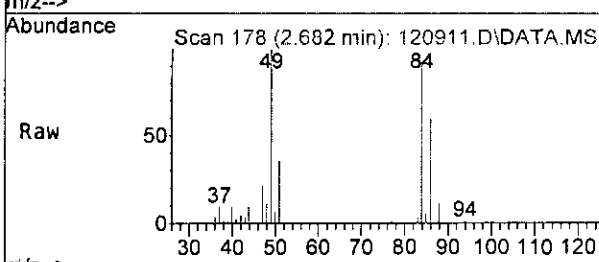




#14  
 Methylene chloride  
 Concen: 2.554 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 120911.D  
 Acq: 09 Dec 2022 12:48 pm

Tgt Ion: 84 Resp: 7715

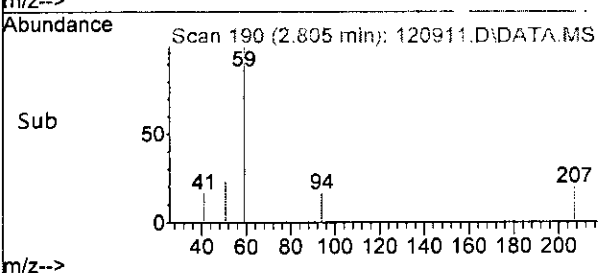
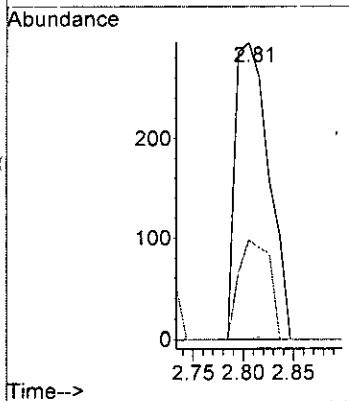
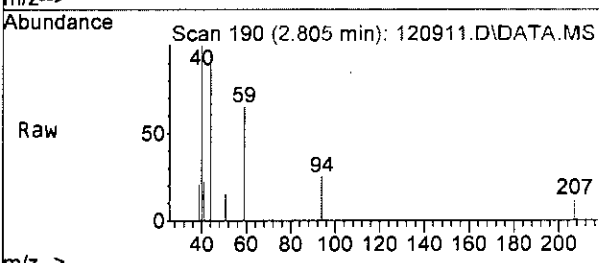
Ion	Ratio	Lower	Upper
84	100		
86	64.8	41.2	101.2
49	109.1	69.2	129.2

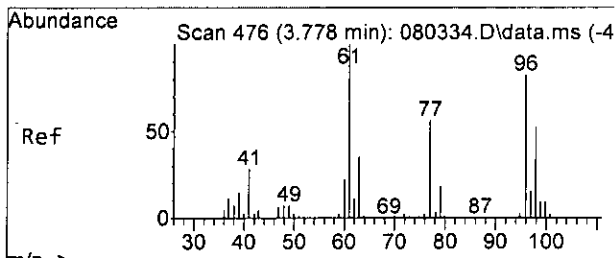


#15  
 t-Butyl alcohol (TBA)  
 Concen: 3.077 ppb  
 RT: 2.81 min Scan# 190  
 Delta R.T. -0.000 min  
 Lab File: 120911.D  
 Acq: 09 Dec 2022 12:48 pm

Tgt Ion: 59 Resp: 681

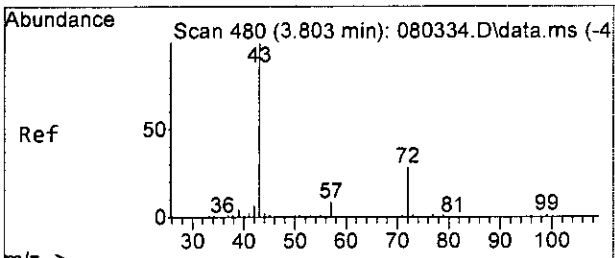
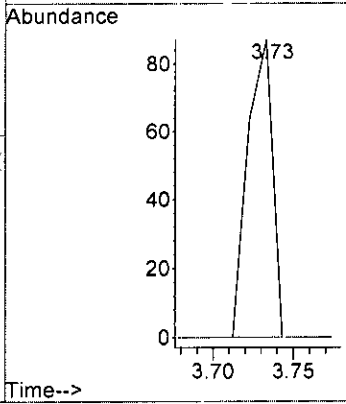
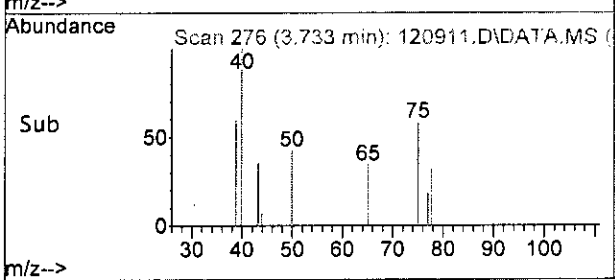
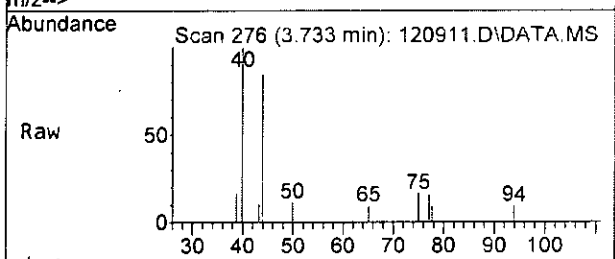
Ion	Ratio	Lower	Upper
59	100		
41	33.2	0.0	50.8





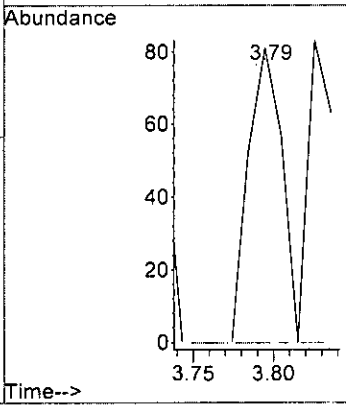
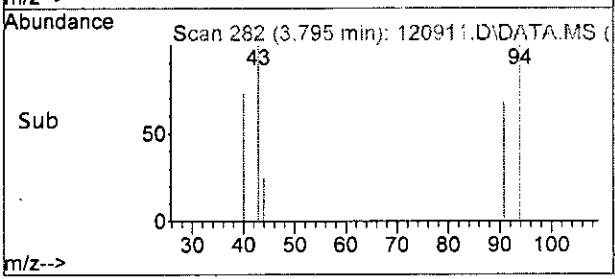
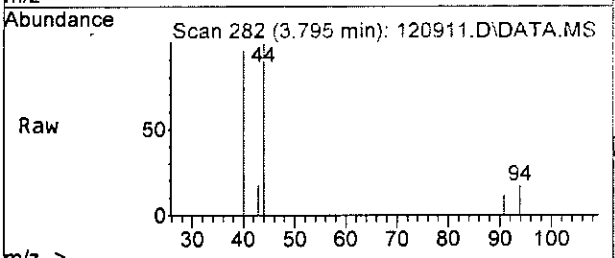
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.73 min Scan# 276  
 Delta R.T. -0.031 min  
 Lab File: 120911.D  
 Acq: 09 Dec 2022 12:48 pm

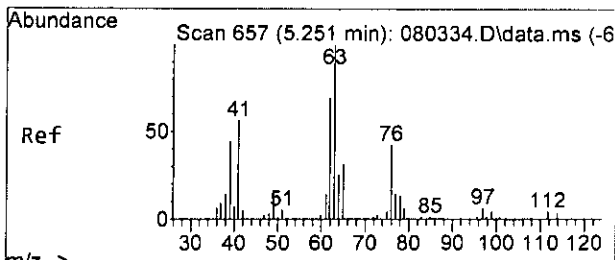
Tgt Ion: 77 Resp: 93  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 2.0 62.0#



#24  
 2-Butanone (MEK)  
 Concen: 0.715 ppb  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.010 min  
 Lab File: 120911.D  
 Acq: 09 Dec 2022 12:48 pm

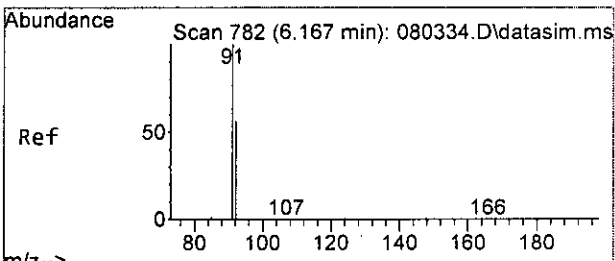
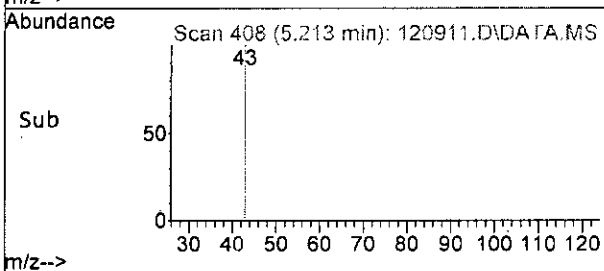
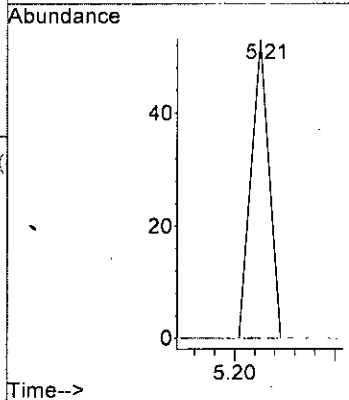
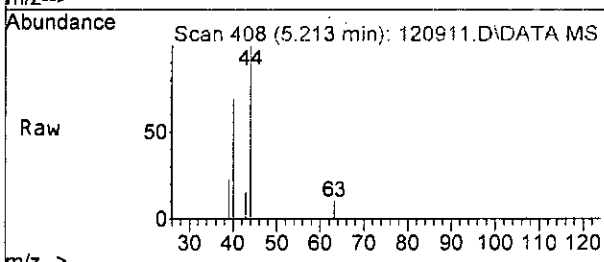
Tgt Ion: 43 Resp: 117  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 0.0 54.9  
 57 0.0 0.0 28.8





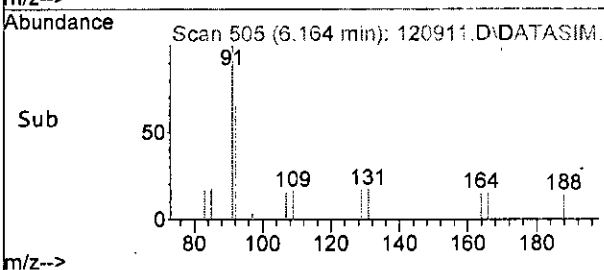
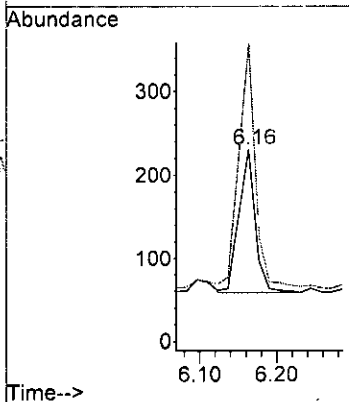
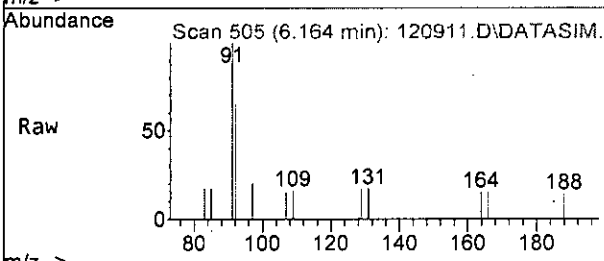
#33  
 1,2-Dichloropropane  
 Concen: Below Cal  
 RT: 5.21 min Scan# 408  
 Delta R.T. -0.031 min  
 Lab File: 120911.D  
 Acq: 09 Dec 2022 12:48 pm

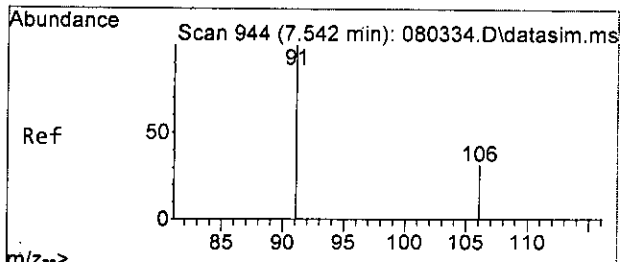
Tgt Ion: 63 Resp: 33  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 0.0 36.5



#40  
 Toluene  
 Concen: 0.045 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: 120911.D  
 Acq: 09 Dec 2022 12:48 pm

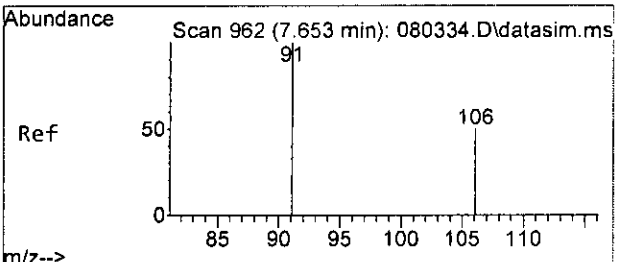
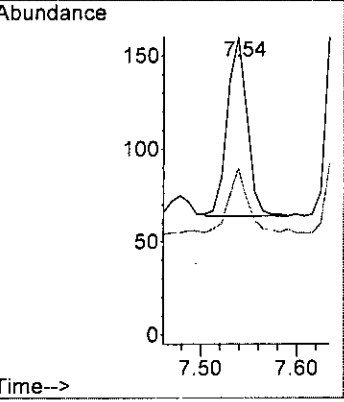
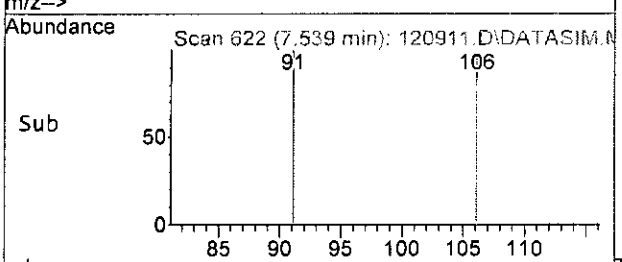
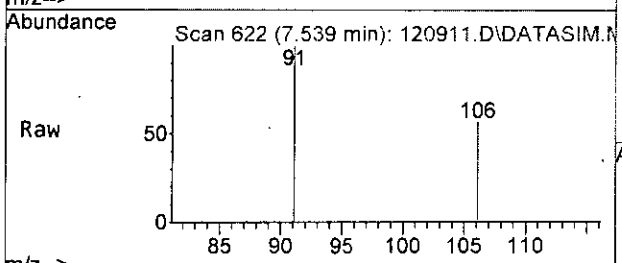
Tgt Ion: 92 Resp: 256  
 Ion Ratio Lower Upper  
 92 100  
 91 168.2 137.5 197.5





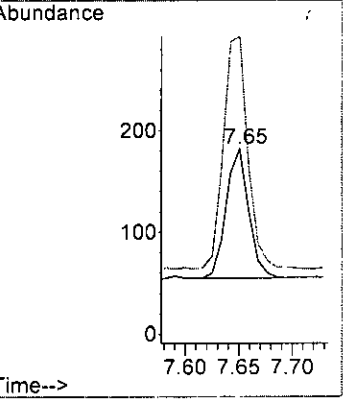
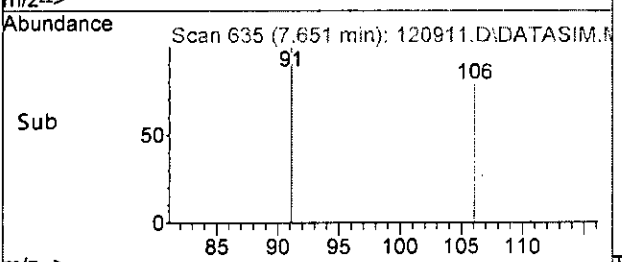
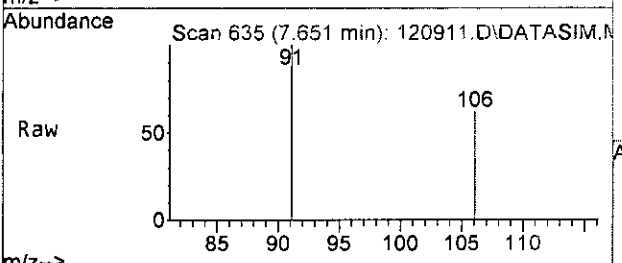
#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. -0.000 min  
 Lab File: 120911.D  
 Acq: 09 Dec 2022 12:48 pm

Tgt Ion: 91 Resp: 138  
 Ion Ratio Lower Upper  
 91 100  
 106 36.5 7.1 67.1



#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: 120911.D  
 Acq: 09 Dec 2022 12:48 pm

Tgt Ion: 106 Resp: 186  
 Ion Ratio Lower Upper  
 106 100  
 91 179.5 138.1 198.1



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120911.D  
 Acq On : 09 Dec 2022 12:48 pm  
 Operator : lm  
 Sample : 212059-05 rr  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:58 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	99243	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	71071	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	37956	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	27190	8.600	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	86.00%		
30) 1,2-Dichloroethane-d4	4.45	102	5455	9.206	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	92.10%		
35) Toluene-d8	6.10	98	92614	10.382	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	103.80%		
57) 4-Bromofluorobenzene	8.51	95	28794	12.519	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	125.20%		
<b>Target Compounds</b>							
2) Ethanol	2.38	45	31	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	46	N.D.			
5) Chloromethane	1.25	50	1761	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	0.00		0	N.D. d			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	1.85	101	35	N.D.			
10) 2-Propanol	2.38	45	31	No Calib			
11) Acetone	2.33	58	514	3.914	ppb		91
12) 1,1-Dichloroethene	0.00		0	N.D. d			
13) Hexane	3.15	57	32	Below Cal #			30
14) Methylene chloride	2.68	84	7715	2.554	ppb		91
15) t-Butyl alcohol (TBA)	2.81	59	681	3.077	ppb		73
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	3.26	45	195	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.73	77	93	Below Cal #			43
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.79	43	117	0.715	ppb		57
25) t-Amyl methyl ether (T...)	4.54	73	136	N.D.			
26) 1,2-Dichloroethane (EDC)	4.52	62	73	N.D.			
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	63	Below Cal			93
32) Trichloroethene	0.00		0	N.D.			
33) 1,2-Dichloropropane	5.21	63	33	Below Cal #			81
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120911.D  
 Acq On : 09 Dec 2022 12:48 pm  
 Operator : lm  
 Sample : 212059-05 rr  
 Misc : water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:58 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

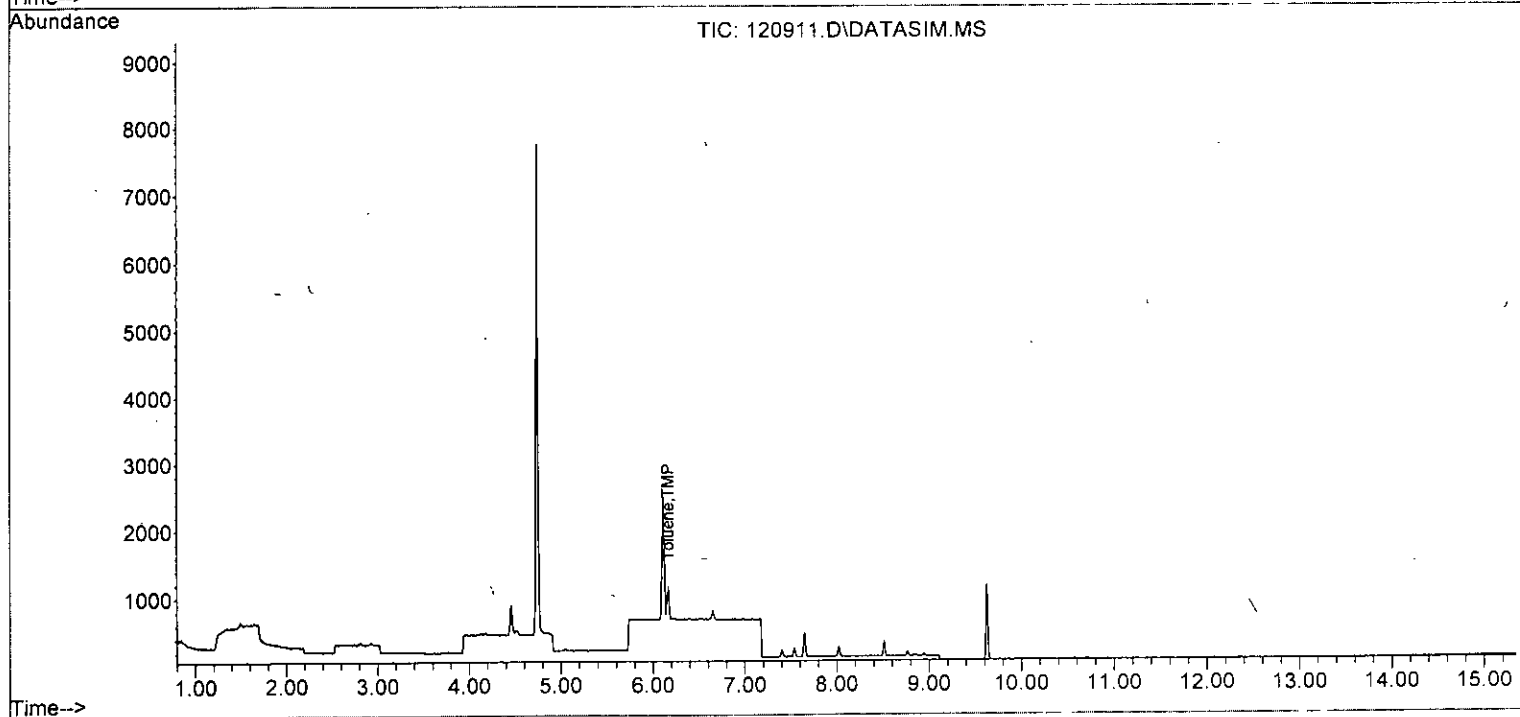
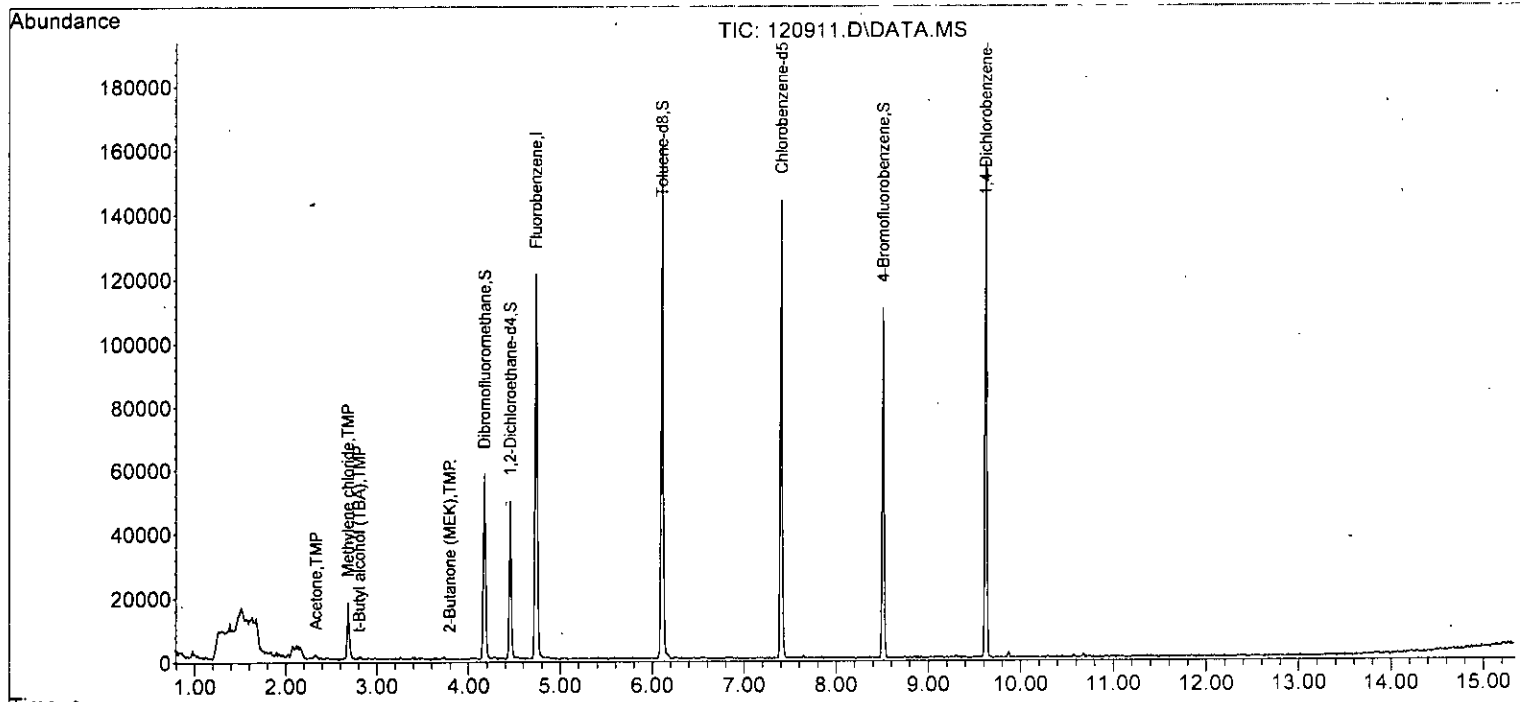
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	256	0.045	ppb	99
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.53	83	23		N.D.	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45) Tetrachloroethene	6.65	164	48		N.D.	
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	138		Below Cal	99
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.65	106	186		Below Cal	92
52] o-Xylene	8.02	106	83		Below Cal	99
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	8.51	105	109		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.77	91	77		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.94	105	30		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	8.89	75	27		N.D.	
63) 2-Chlorotoluene	8.84	91	74		N.D.	
64) 4-Chlorotoluene	8.84	91	74		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.30	105	292		N.D.	
67) sec-Butylbenzene	9.30	105	292		N.D.	
68) p-Isopropyltoluene	9.61	119	67		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	0.00		0		N.D. d	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS13\12-09-22\  
Data File : 120911.D  
Acq On : 09 Dec 2022 12:48 pm  
Operator : 1m  
Sample : 212059-05 rr  
Misc : water  
ALS Vial : 7 Sample Multiplier: 1  
InstName : GCMS13

Quant Time: Dec 12 07:58:58 2022  
Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Thu Dec 01 12:09:50 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080322.M



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120912.D  
 Acq On : 09 Dec 2022 01:11 pm  
 Operator : lm  
 Sample : 212059-06 rr  
 Misc : water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS13

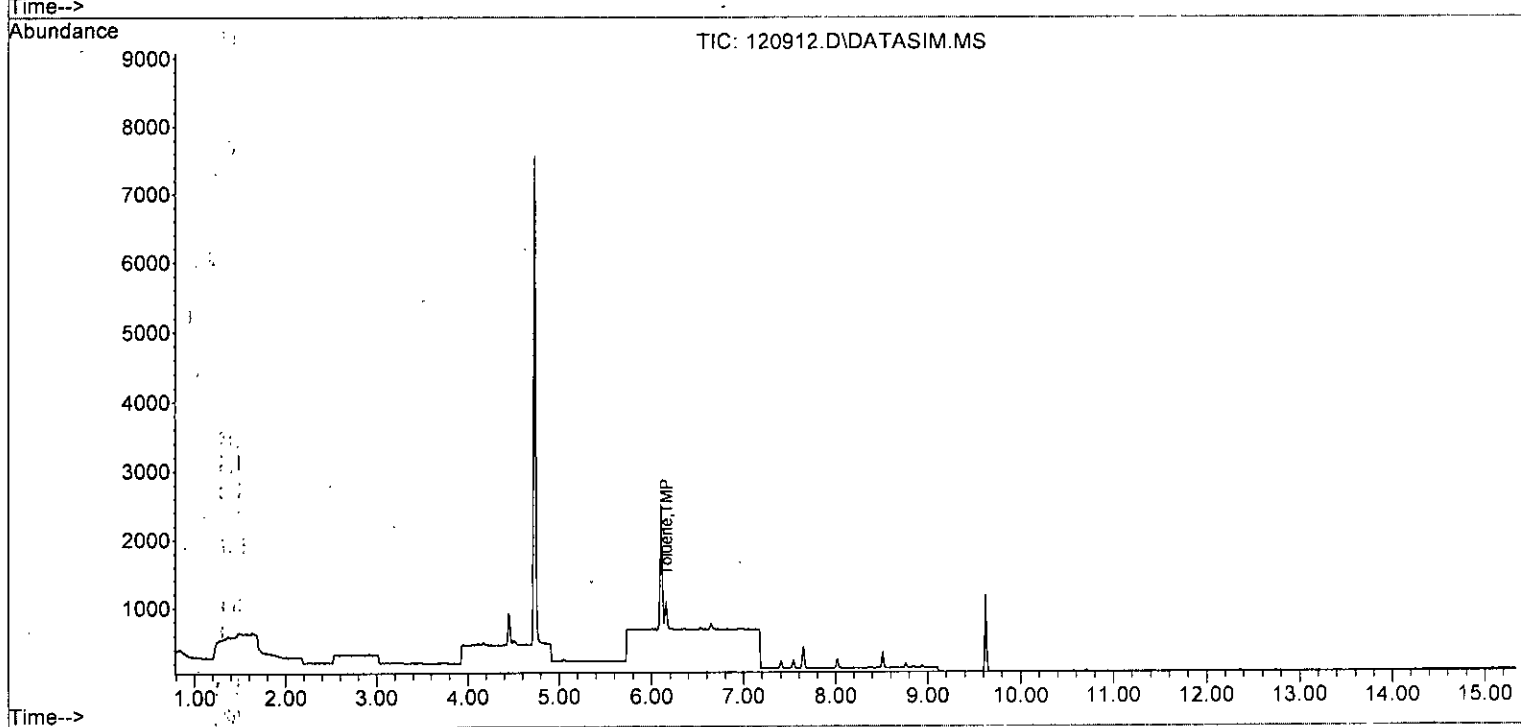
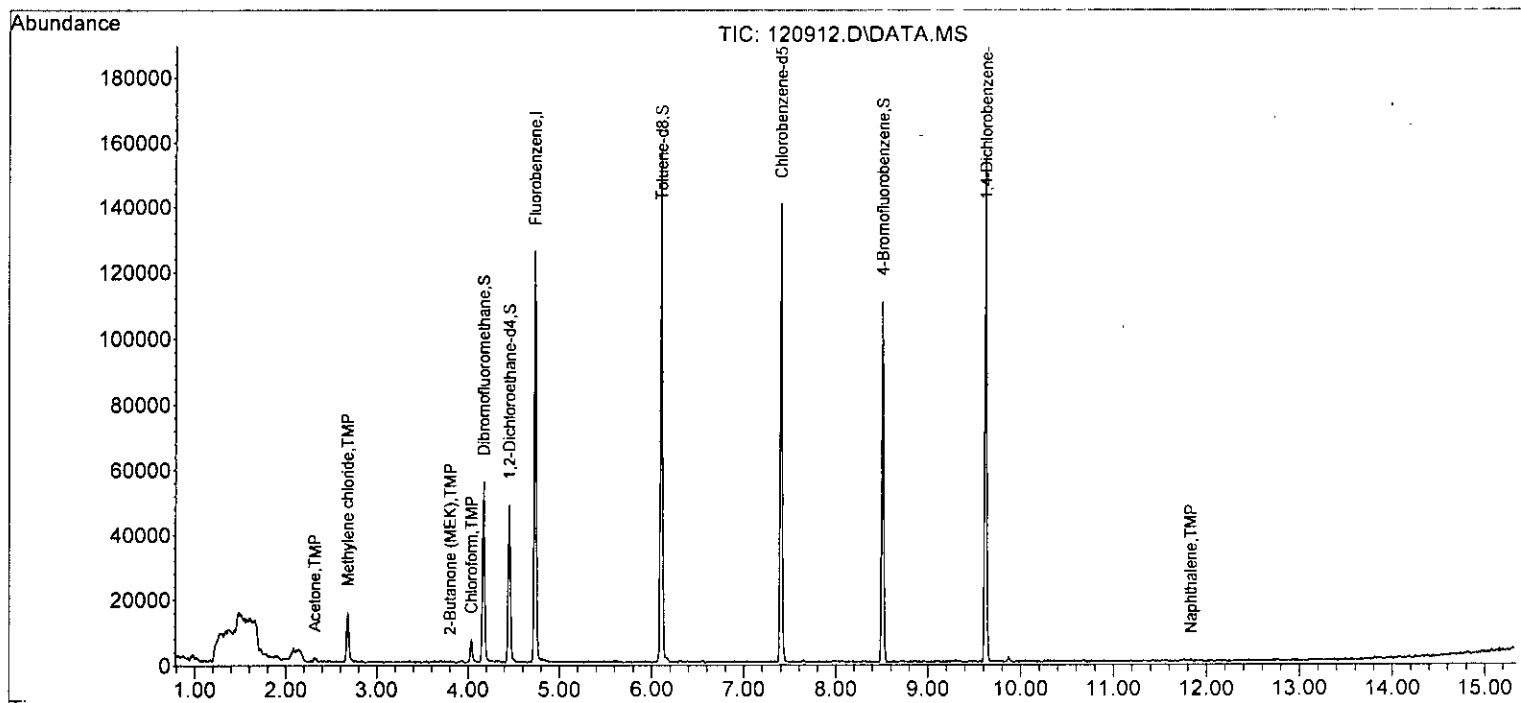
Quant Time: Dec 12 07:59:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M

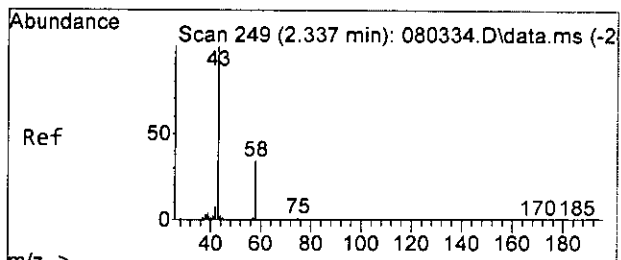
Compound	R.T	QI	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.73	96	109014	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	70832	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	38400	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.17	113	26784	7.713	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	77.10%		
30) 1,2-Dichloroethane-d4	4.45	102	5732	8.806	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery =	88.10%		
35) Toluene-d8	6.11	98	89196	9.103	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery =	91.00%		
57) 4-Bromofluorobenzene	8.51	95	29814	12.813	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery =	128.10%		
<b>Target Compounds</b>						
11) Acetone	2.32	58	389	3.301	ppb	91
14) Methylene chloride	2.68	84	6835	1.925	ppb	93
21) 2,2-Dichloropropane	3.74	77	49	Below Cal	#	43
23) Chloroform	4.04	83	4477	0.930	ppb	90
24) 2-Butanone (MEK)	3.81	43	258	0.818	ppb	57
31] Benzene	4.50	78	57	Below Cal		74
40] Toluene	6.16	92	236	0.041	ppb	99
49] Ethylbenzene	7.54	91	137	Below Cal		88
51] m,p-Xylene	7.65	106	163	Below Cal		86
52] o-Xylene	8.02	106	68	Below Cal		96
75) Naphthalene	11.83	128	174	0.023	ppb	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120912.D  
 Acq On : 09 Dec 2022 01:11 pm  
 Operator : lm  
 Sample : 212059-06 rr  
 Misc : water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS13

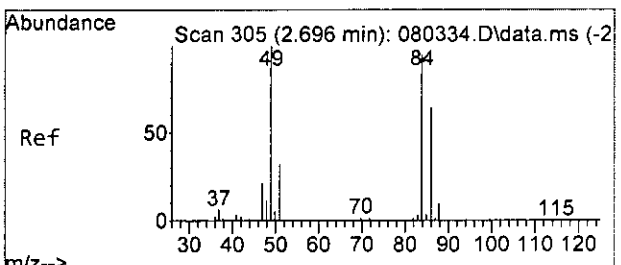
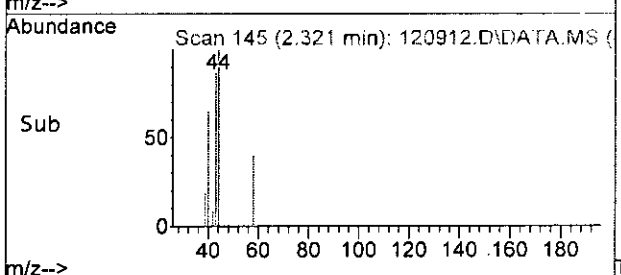
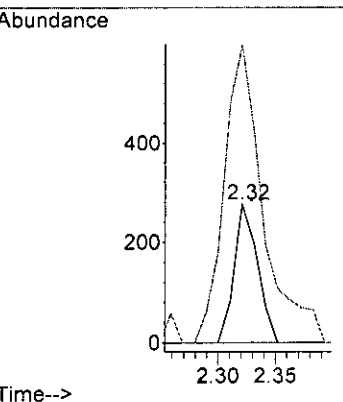
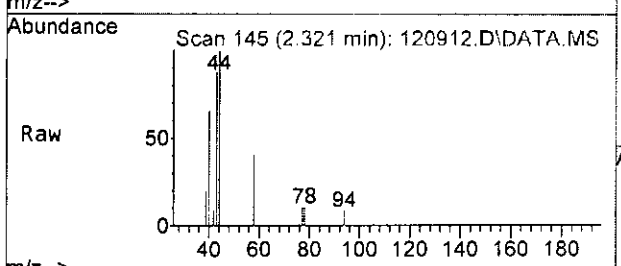
Quant Time: Dec 12 07:59:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M





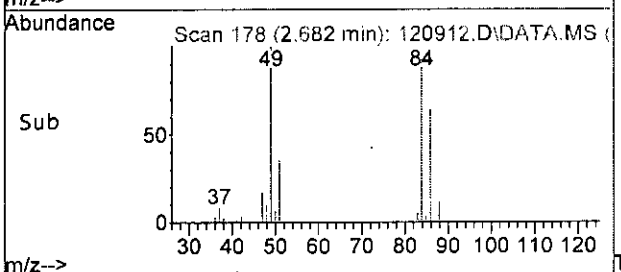
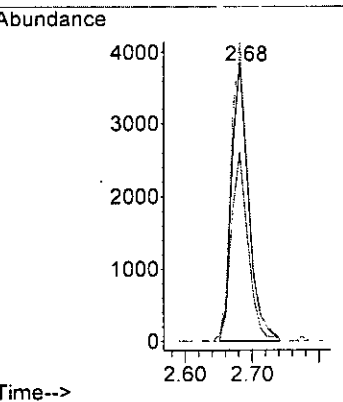
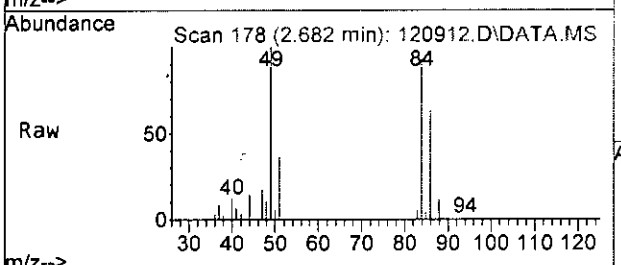
#11  
 Acetone  
 Concen: 3.301 ppb  
 RT: 2.32 min Scan# 145  
 Delta R.T. -0.000 min  
 Lab File: 120912.D  
 Acq: 09 Dec 2022 01:11 pm

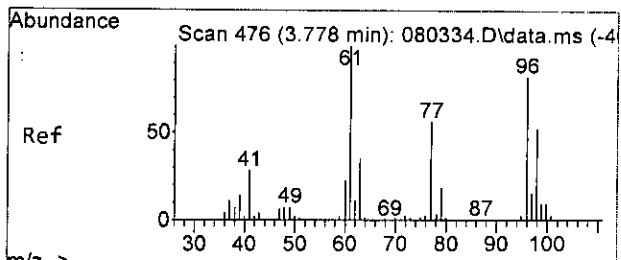
Tgt Ion: 58 Resp: 389  
 Ion Ratio Lower Upper  
 58 100  
 43 360.7 350.8 410.8



#14  
 Methylene chloride  
 Concen: 1.925 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 120912.D  
 Acq: 09 Dec 2022 01:11 pm

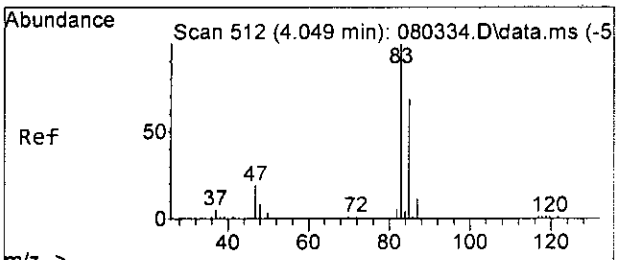
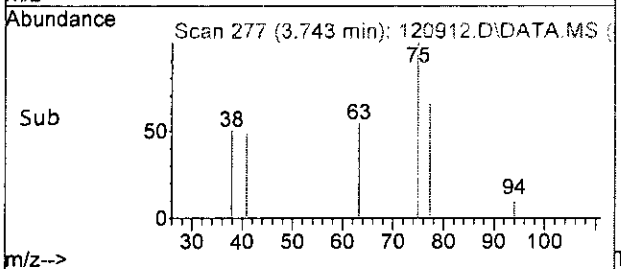
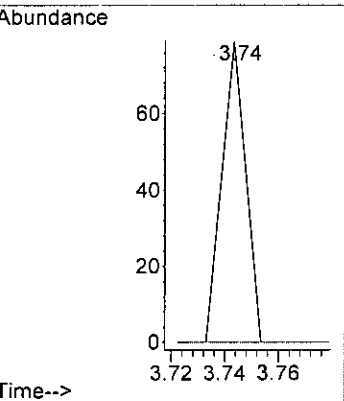
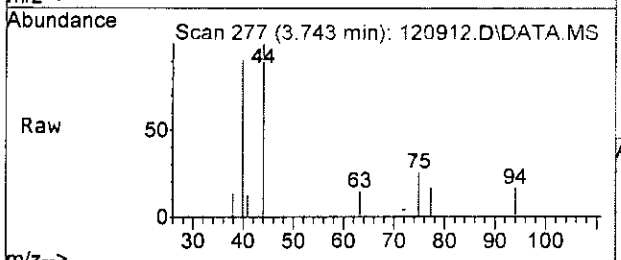
Tgt Ion: 84 Resp: 6835  
 Ion Ratio Lower Upper  
 84 100  
 86 67.5 41.2 101.2  
 49 107.6 69.2 129.2





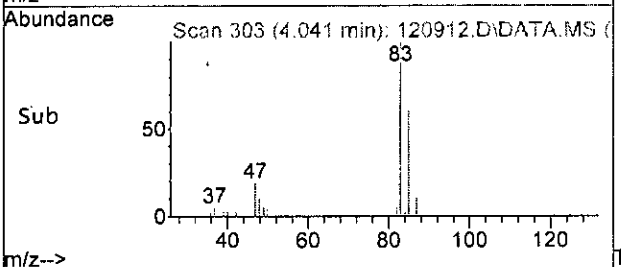
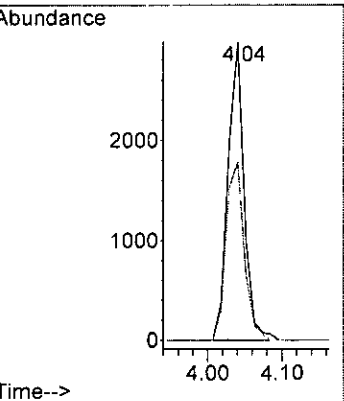
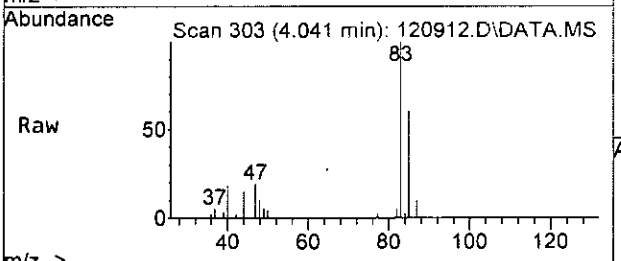
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.74 min Scan# 277  
 Delta R.T. -0.021 min  
 Lab File: 120912.D  
 Acq: 09 Dec 2022 01:11 pm

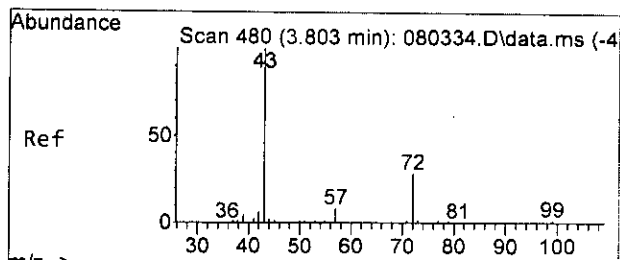
Tgt Ion: 77 Resp: 49  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 2.0 62.0#



#23  
 Chloroform  
 Concen: 0.930 ppb  
 RT: 4.04 min Scan# 303  
 Delta R.T. -0.000 min  
 Lab File: 120912.D  
 Acq: 09 Dec 2022 01:11 pm

Tgt Ion: 83 Resp: 4477  
 Ion Ratio Lower Upper  
 83 100  
 85 59.8 37.9 97.9

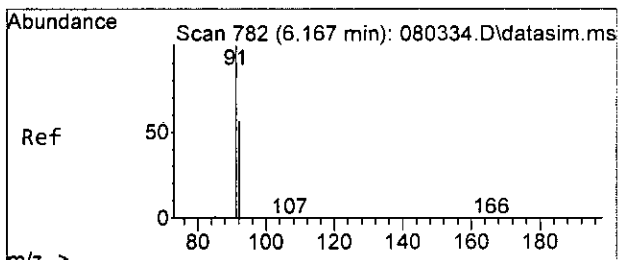
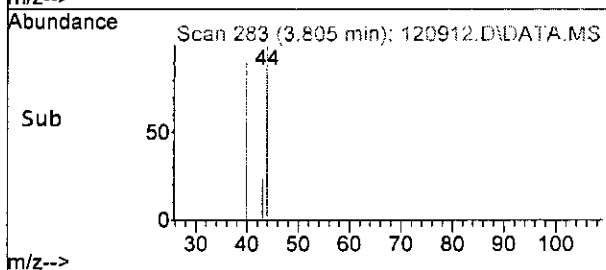
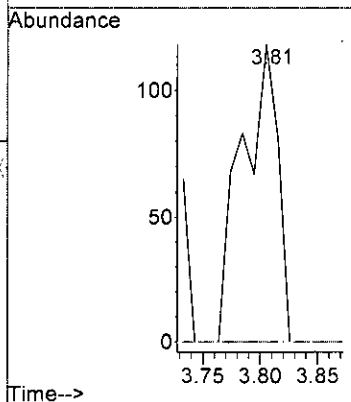
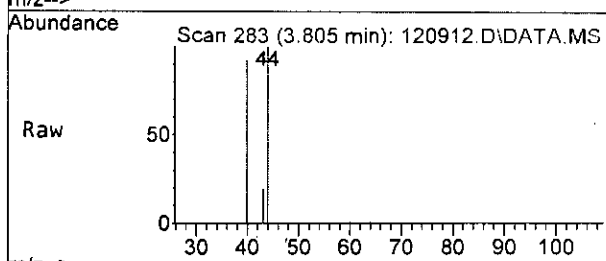




#24  
 2-Butanone (MEK)  
 Concen: 0.818 ppb  
 RT: 3.81 min Scan# 283  
 Delta R.T. 0.020 min  
 Lab File: 120912.D  
 Acq: 09 Dec 2022 01:11 pm

Tgt Ion: 43 Resp: 258

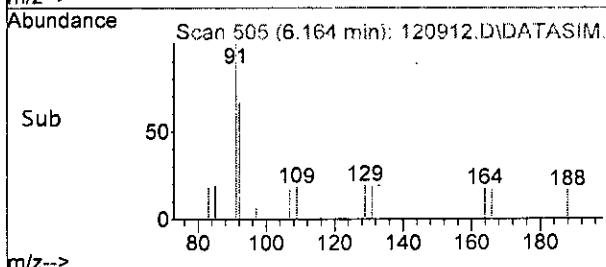
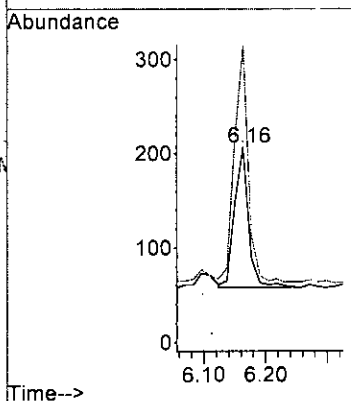
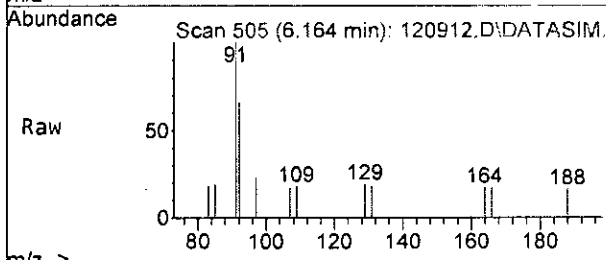
Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	54.9
57	0.0	0.0	28.8

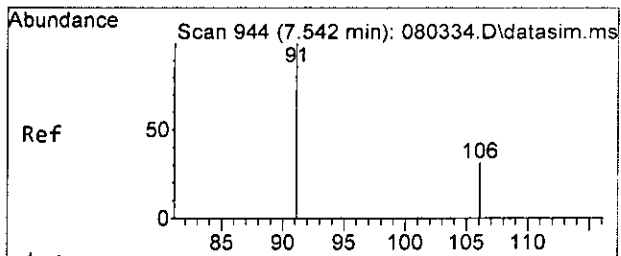


#40  
 Toluene  
 Concen: 0.041 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: 120912.D  
 Acq: 09 Dec 2022 01:11 pm

Tgt Ion: 92 Resp: 236

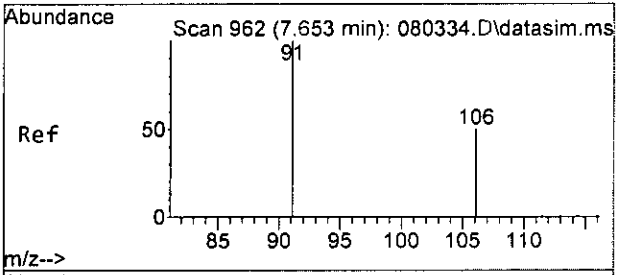
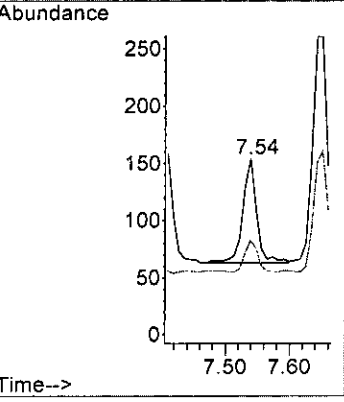
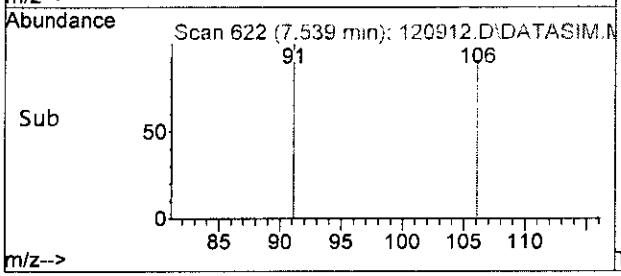
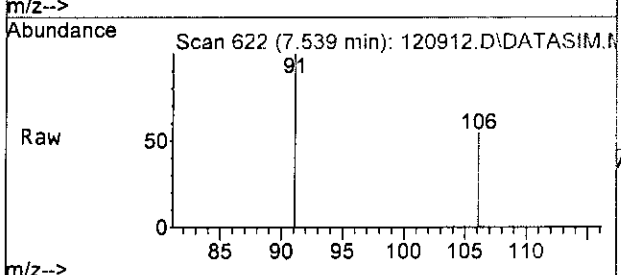
Ion	Ratio	Lower	Upper
92	100		
91	168.5	137.5	197.5





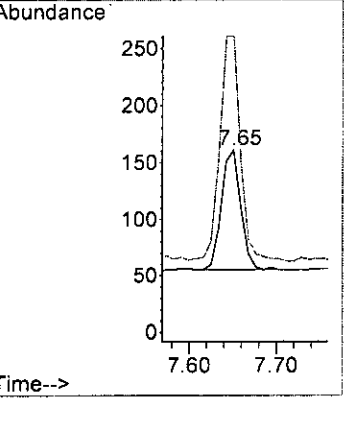
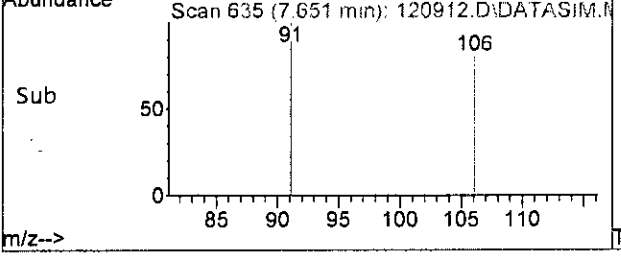
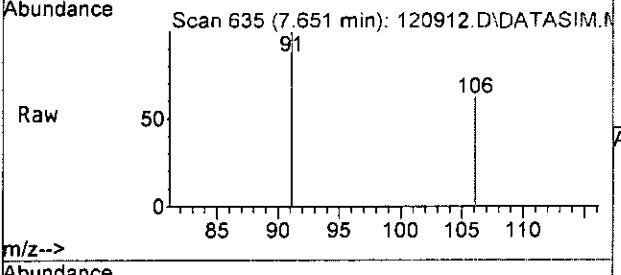
#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. -0.000 min  
 Lab File: 120912.D  
 Acq: 09 Dec 2022 01:11 pm

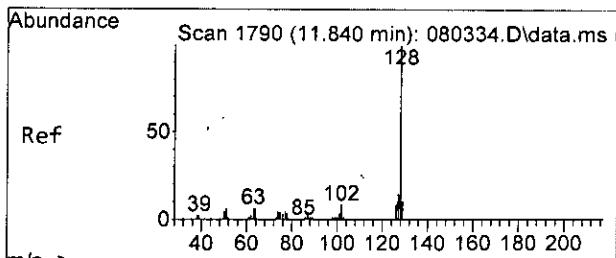
Tgt Ion: 91 Resp: 137  
 Ion Ratio Lower Upper  
 91 100  
 106 29.7 7.1 67.1



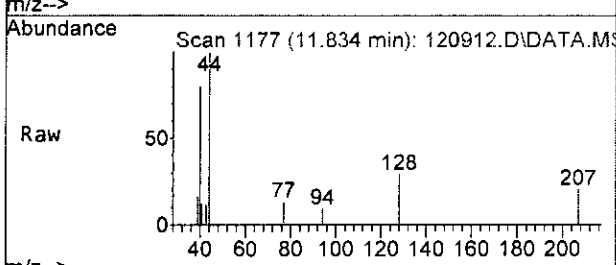
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: 120912.D  
 Acq: 09 Dec 2022 01:11 pm

Tgt Ion: 106 Resp: 163  
 Ion Ratio Lower Upper  
 106 100  
 91 186.8 138.1 198.1



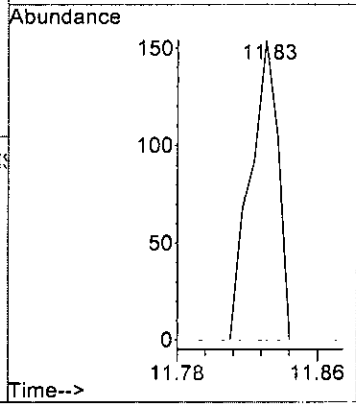
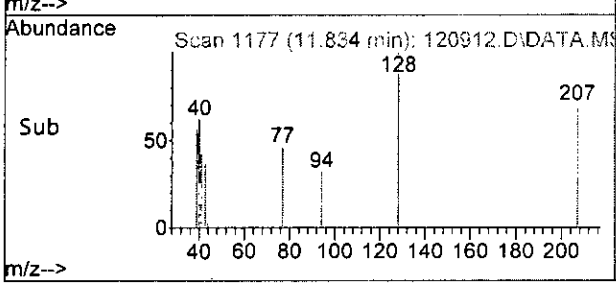


#75  
 Naphthalene  
 Concen: 0.023 ppb  
 RT: 11.83 min Scan# 1177  
 Delta R.T. -0.000 min  
 Lab File: 120912.D  
 Acq: 09 Dec 2022 01:11 pm



Tgt Ion: 128 Resp: 174

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	41.5
127	0.0	0.0	44.0





Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120912.D  
 Acq On : 09 Dec 2022 01:11 pm  
 Operator : lm  
 Sample : 212059-06 rr  
 Misc : water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	109014	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	70832	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	38400	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	26784	7.713	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	77.10%	
30) 1,2-Dichloroethane-d4	4.45	102	5732	8.806	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	88.10%	
35) Toluene-d8	6.11	98	89196	9.103	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	91.00%	
57) 4-Bromofluorobenzene	8.51	95	29814	12.813	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	128.10%	
<b>Target Compounds</b>							
2) Ethanol	2.33	45	36	No Calib			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.26	50	1871	N.D.			
6) Vinyl chloride	0.00		0	N.D.			
7) Bromomethane	0.00		0	N.D.			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.33	45	36	No Calib			
11) Acetone	2.32	58	389	3.301	ppb		91
12) 1,1-Dichloroethene	0.00		0	N.D.			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.68	84	6835	1.925	ppb		93
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.74	77	49	Below Cal	#		43
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	4.04	83	4477	0.930	ppb		90
24) 2-Butanone (MEK)	3.81	43	258	0.818	ppb		57
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26) 1,2-Dichloroethane (EDC)	4.52	62	70	N.D.			
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	57	Below Cal			74
32) Trichloroethene	0.00		0	N.D.			
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	5.47	83	41	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120912.D  
 Acq On : 09 Dec 2022 01:11 pm  
 Operator : lm  
 Sample : 212059-06 rr  
 Misc : water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS13

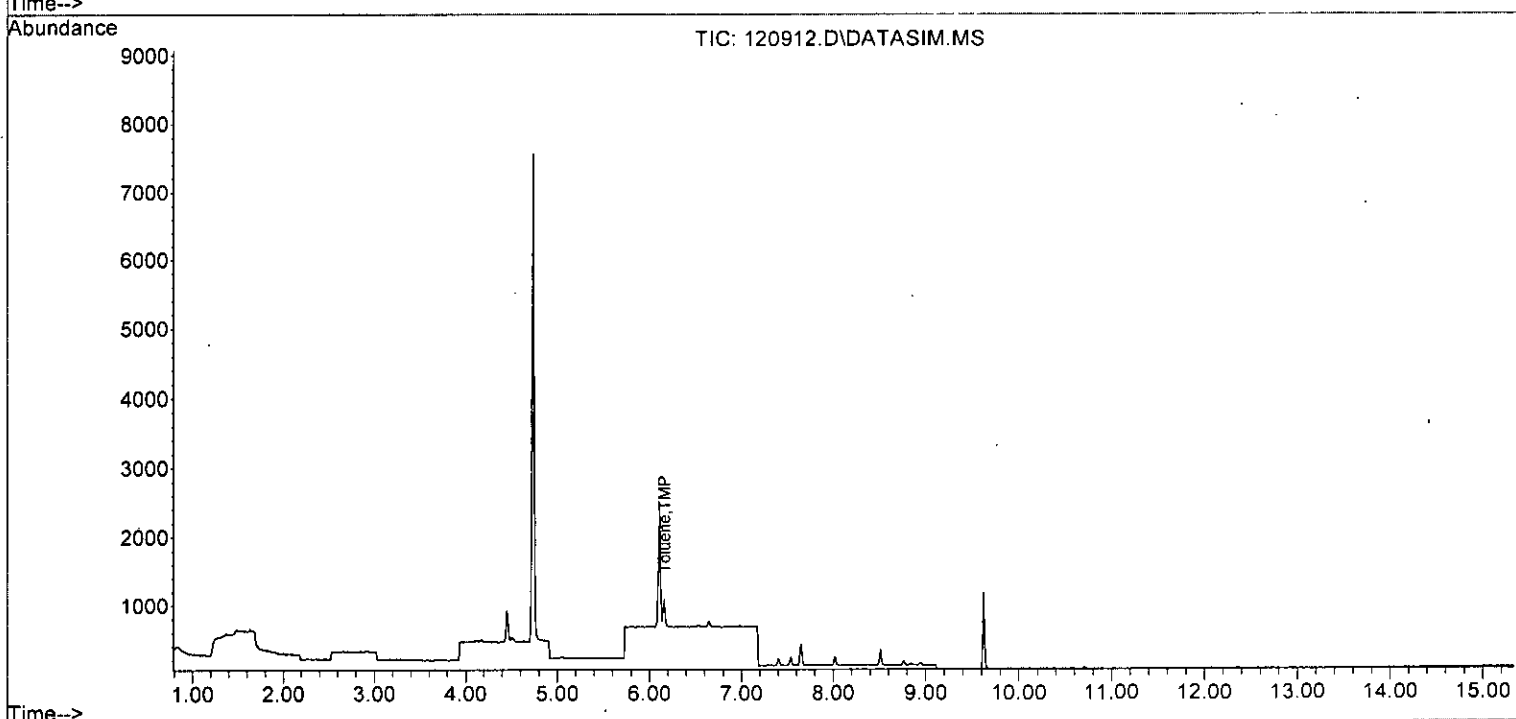
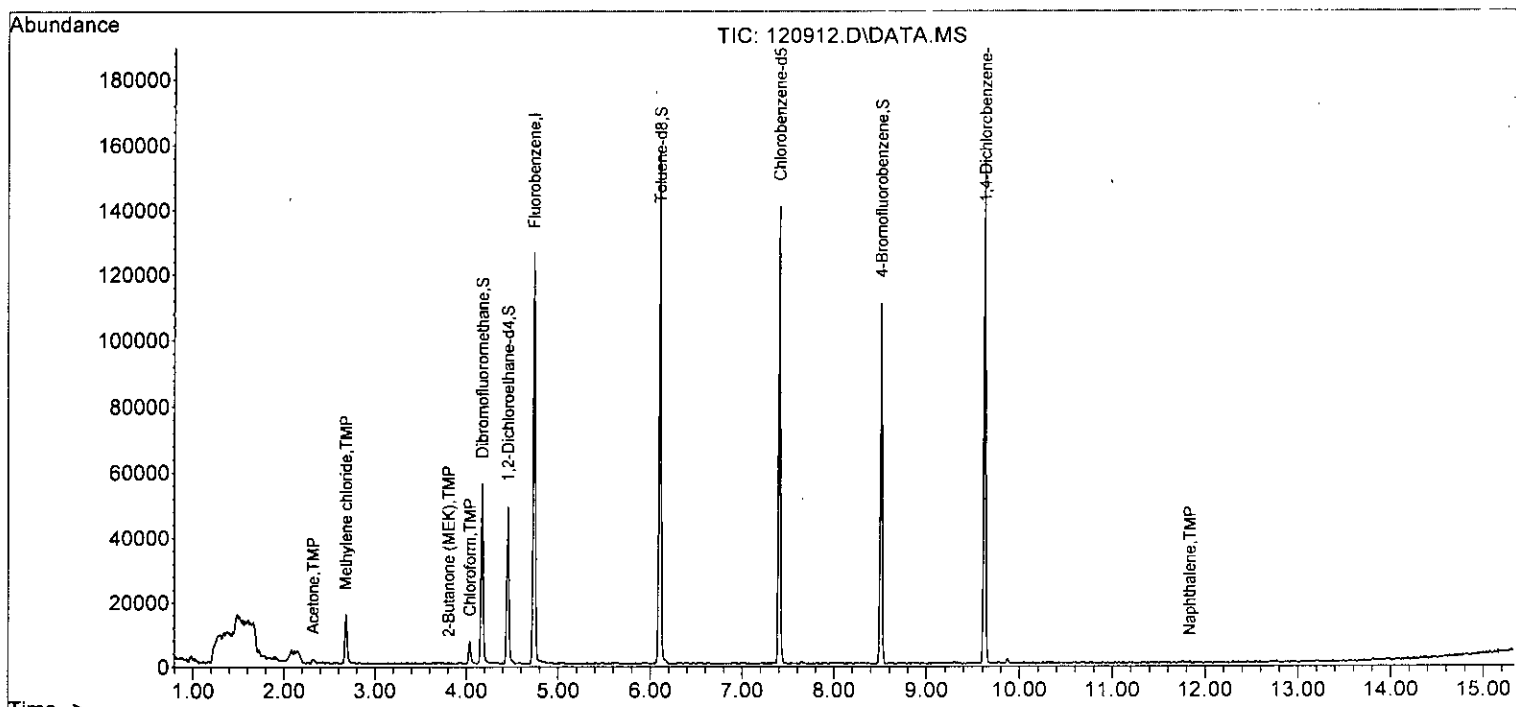
Quant Time: Dec 12 07:59:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	236	0.041	ppb	99
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.53	83	30		N.D.	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45) Tetrachloroethene	6.65	164	43		N.D.	
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	137		Below Cal	88
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.65	106	163		Below Cal	86
52] o-Xylene	8.02	106	68		Below Cal	96
53) Styrene	8.03	104	28		N.D.	
54) Isopropylbenzene	8.38	105	26		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.77	91	99		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.85	105	93		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.77	91	99		N.D.	
64) 4-Chlorotoluene	8.77	91	99		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.30	105	207		N.D.	
67) sec-Butylbenzene	9.30	105	207		N.D.	
68) p-Isopropyltoluene	9.61	119	96		N.D.	
69) 1,3-Dichlorobenzene	9.64	146	43		N.D.	
70) 1,4-Dichlorobenzene	9.64	146	43		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.83	128	174	0.023	ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
Data File : 120912.D  
Acq On : 09 Dec 2022 01:11 pm  
Operator : lm  
Sample : 212059-06 rr  
Misc : water  
ALS Vial : 8 Sample Multiplier: 1  
InstName : GCMS13

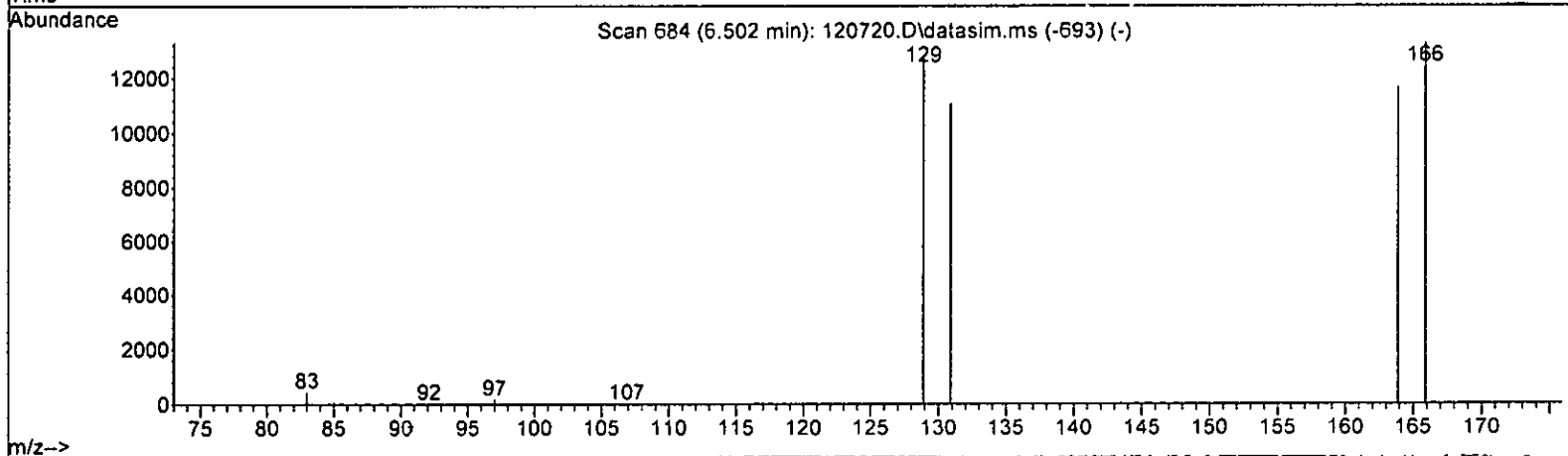
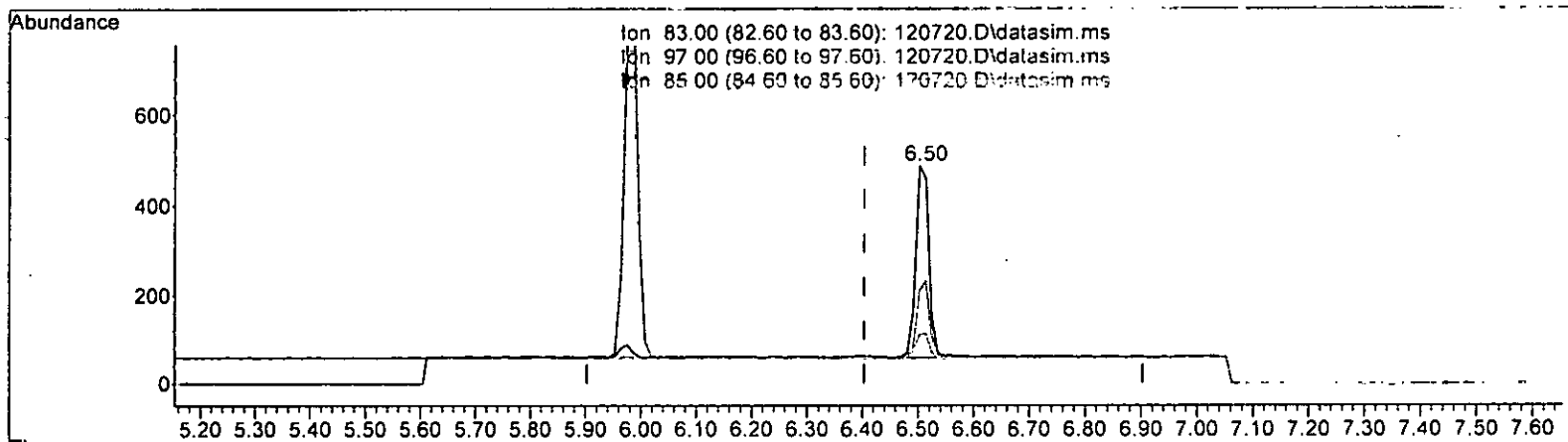
Quant Time: Dec 12 07:59:02 2022  
Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Thu Dec 01 12:09:50 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120720.D  
 Acq On : 07 Dec 2022 03:02 pm  
 Operator : LM  
 Sample : 212059-07 1/100  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:49:52 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M



TIC: 120720.D\data.ms

(42) 1,1,2-Trichloroethane (TMP)

6.502min (+ 0.099) 0.678 ppb

response 707

Ion	Exp%	Act%
83.00	100.00	100.00
97.00	109.70	35.43#
85.00	64.60	12.35#
0.00	0.00	0.00

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120720.D  
 Acq On : 07 Dec 2022 03:02 pm  
 Operator : LM  
 Sample : 212059-07 1/100  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

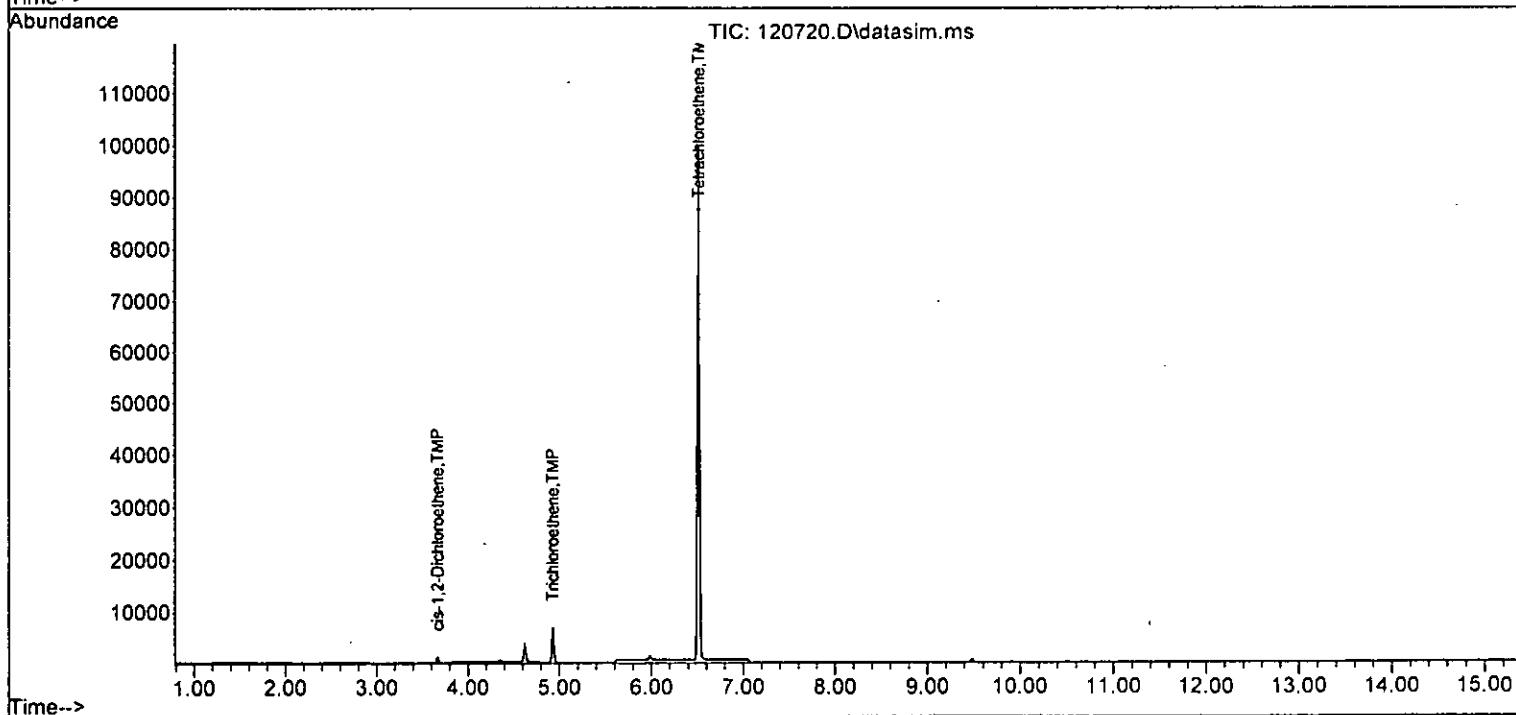
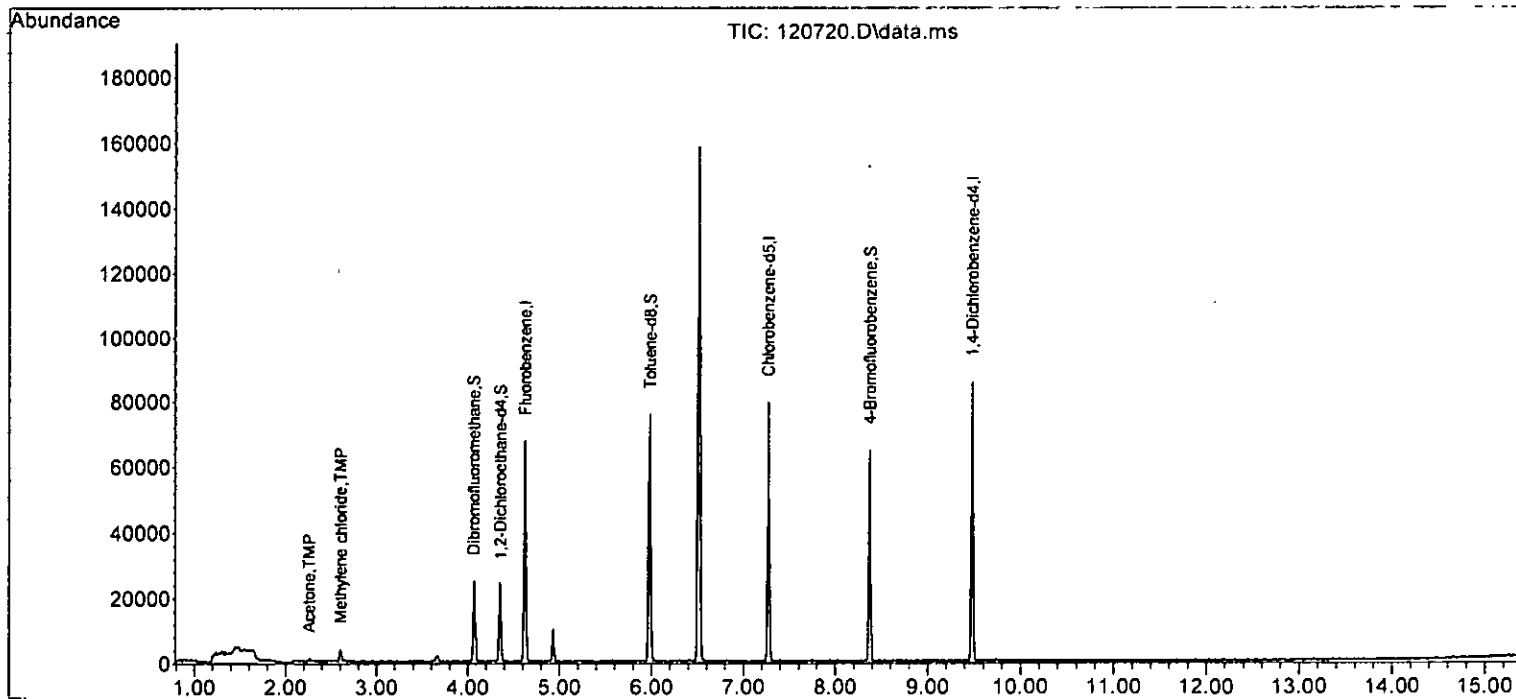
Quant Time: Dec 08 07:49:52 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

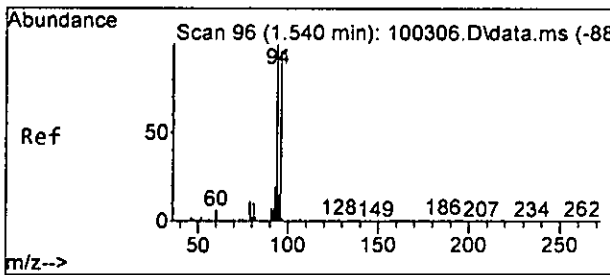
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	44660	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	36422	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19361	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.07	113	12047	10.235	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	102.40%		
30) 1,2-Dichloroethane-d4	4.36	102	2650	9.954	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery =	99.50%		
35) Toluene-d8	5.98	98	42741	9.811	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery =	98.10%		
57) 4-Bromofluorobenzene	8.38	95	17267	10.322	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery =	103.20%		
<b>Target Compounds</b>						
5) Chloromethane	1.23	50	333	Below Cal		63
7) Bromomethane	1.52	94	446	Below Cal	#	18
11) Acetone	2.26	58	268	1.923	ppb	# 66
14) Methylene chloride	2.61	84	1319	0.380	ppb	93
21) 2,2-Dichloropropane	3.65	77	55	Below Cal	#	1
22] cis-1,2-Dichloroethene	3.67	96	591	0.430	ppb	94
24) 2-Butanone (MEK)	3.64	43	121	Below Cal	#	22
32] Trichloroethene	4.93	95	2719	1.886	ppb	98
45] Tetrachloroethene	6.51	164	33333	27.821	ppb	99
49] Ethylbenzene	7.51	91	85	Below Cal		66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
Data File : 120720.D  
Acq On : 07 Dec 2022 03:02 pm  
Operator : LM  
Sample : 212059-07 1/100  
Misc : water  
ALS Vial : 16 Sample Multiplier: 1  
InstName : GCMS11

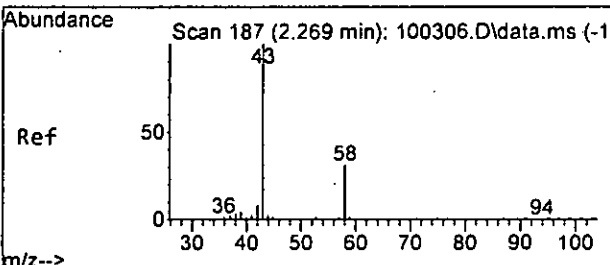
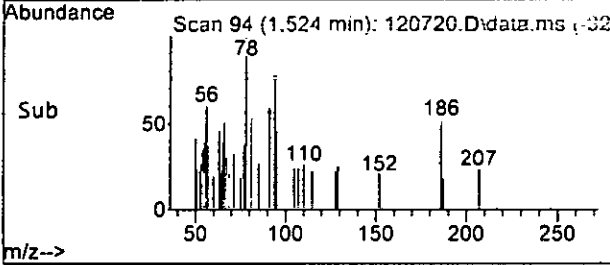
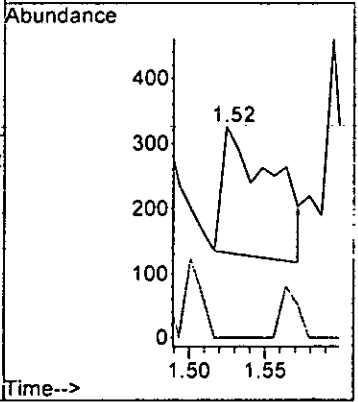
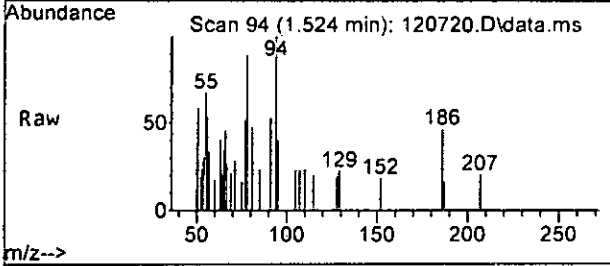
Quant Time: Dec 08 07:49:52 2022  
Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Mon Dec 05 13:11:58 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M





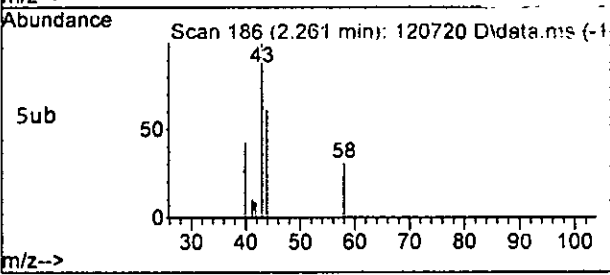
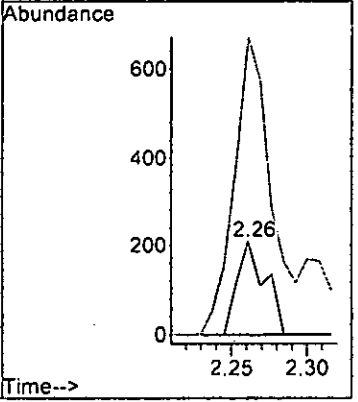
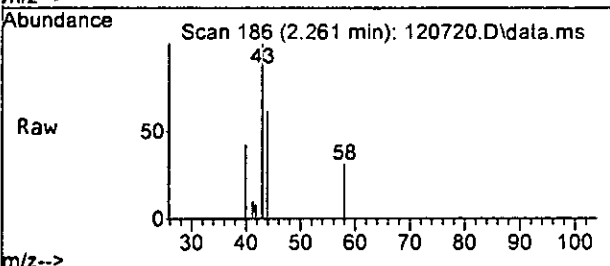
#7  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.52 min Scan# 94  
 Delta R.T. -0.016 min  
 Lab File: 120720.D  
 Acq: 07 Dec 2022 03:02 pm

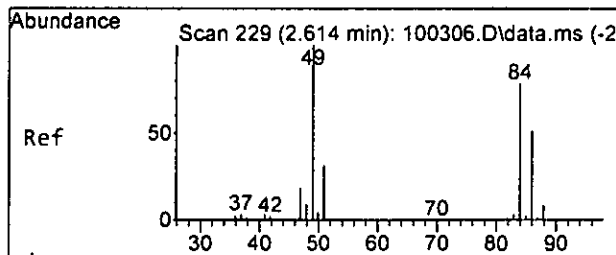
Tgt Ion: 94 Resp: 446  
 Ion Ratio Lower Upper  
 94 100  
 96 0.0 33.9 93.9#



#11  
 Acetone  
 Concen: 1.923 ppb  
 RT: 2.26 min Scan# 186  
 Delta R.T. -0.008 min  
 Lab File: 120720.D  
 Acq: 07 Dec 2022 03:02 pm

Tgt Ion: 58 Resp: 268  
 Ion Ratio Lower Upper  
 58 100  
 43 422.4 319.7 379.7#

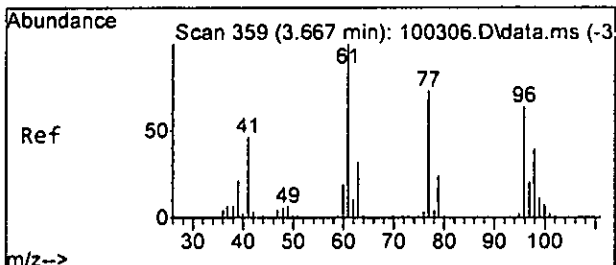
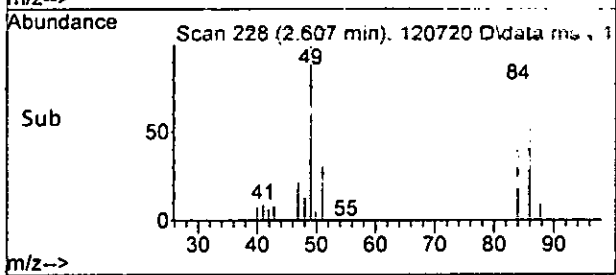
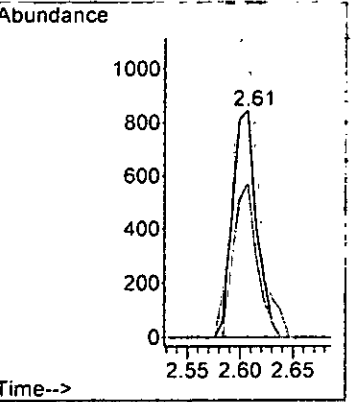
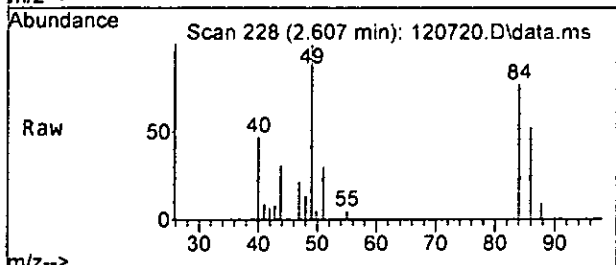




#14  
 Methylene chloride  
 Concen: 0.380 ppb  
 RT: 2.61 min Scan# 228  
 Delta R.T. -0.000 min  
 Lab File: 120720.D  
 Acq: 07 Dec 2022 03:02 pm

Tgt Ion: 84 Resp: 1319

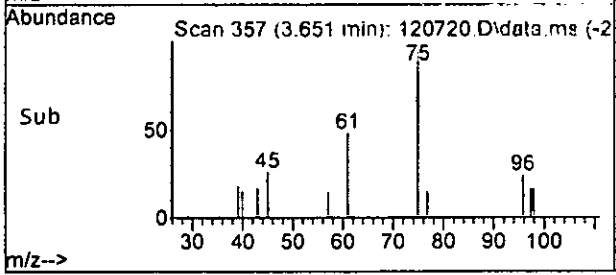
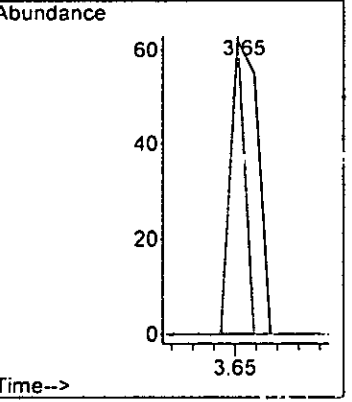
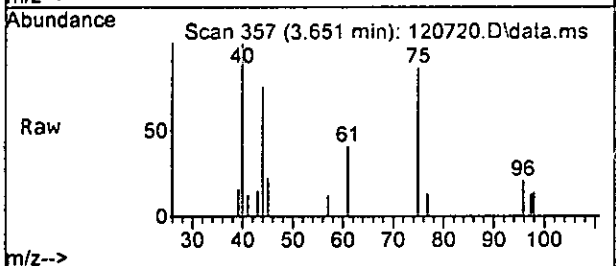
Ion	Ratio	Lower	Upper
84	100		
86	67.7	30.4	90.4
49	129.1	93.0	153.0



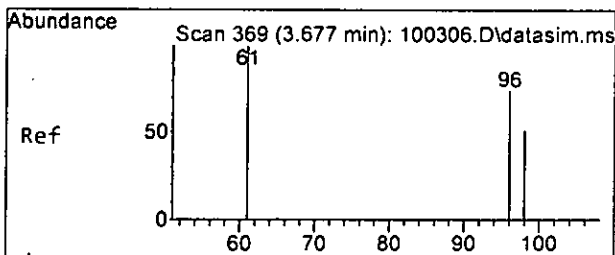
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.65 min Scan# 357  
 Delta R.T. -0.016 min  
 Lab File: 120720.D  
 Acq: 07 Dec 2022 03:02 pm

Tgt Ion: 77 Resp: 55

Ion	Ratio	Lower	Upper
77	100		
97	101.6	0.0	51.5#



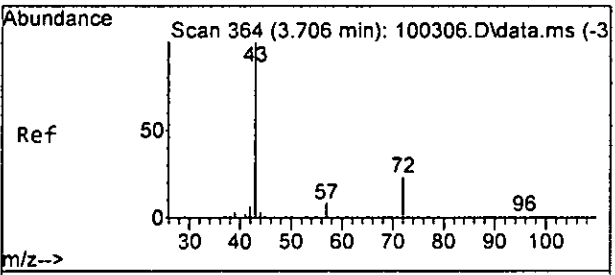
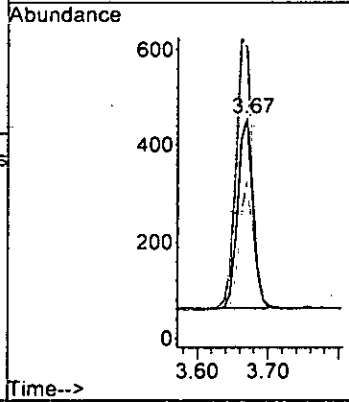
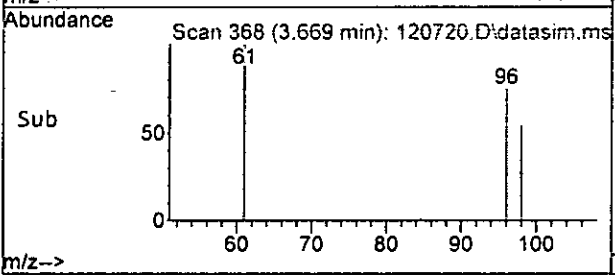
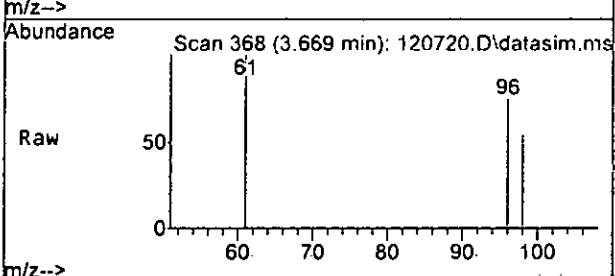




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.430 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. 0.000 min  
 Lab File: 120720.D  
 Acq: 07 Dec 2022 03:02 pm

Tgt Ion: 96 Resp: 591

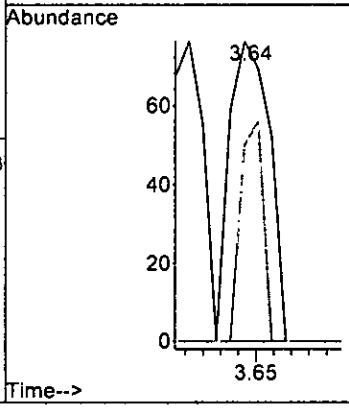
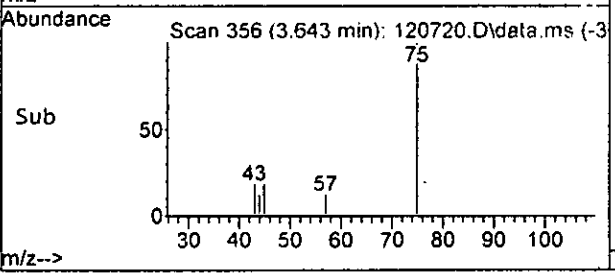
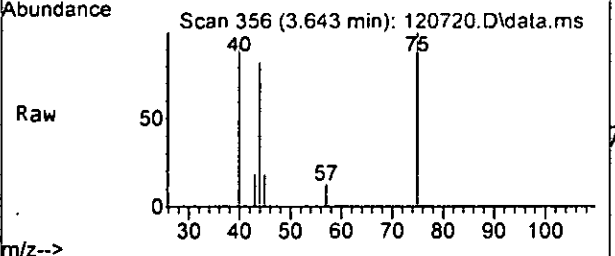
Ion	Ratio	Lower	Upper
96	100		
61	137.2	116.5	176.5
98	67.7	36.7	96.7

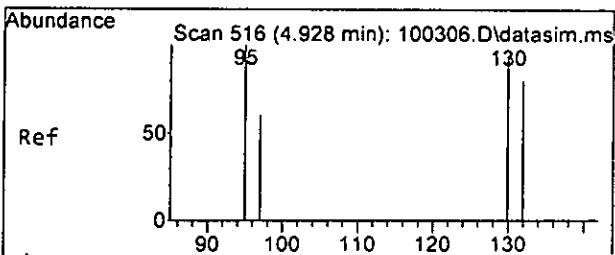


#24  
 2-Butanone (MEK)  
 Concen: Below Cal  
 RT: 3.64 min Scan# 356  
 Delta R.T. -0.063 min  
 Lab File: 120720.D  
 Acq: 07 Dec 2022 03:02 pm

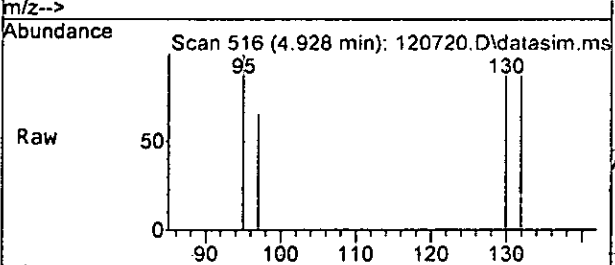
Tgt Ion: 43 Resp: 121

Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	49.9
57	65.8	0.0	28.2#



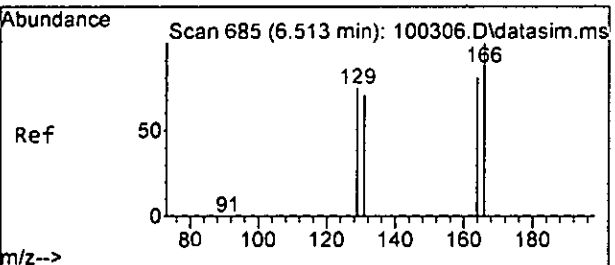
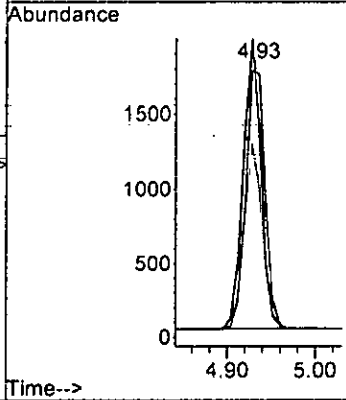
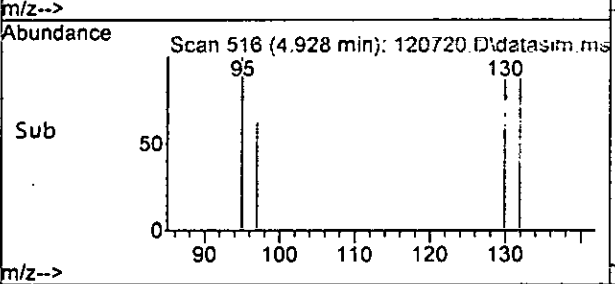


#32  
 Trichloroethene  
 Concen: 1.886 ppb  
 RT: 4.93 min Scan# 516  
 Delta R.T. -0.000 min  
 Lab File: 120720.D  
 Acq: 07 Dec 2022 03:02 pm

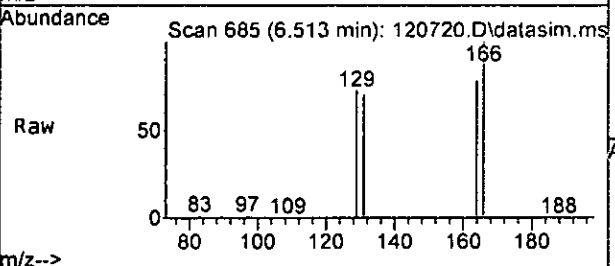


Tgt Ion: 95 Resp: 2719

Ion	Ratio	Lower	Upper
95	100		
97	63.6	33.6	93.6
130	97.8	65.5	125.5
132	89.4	57.2	117.2

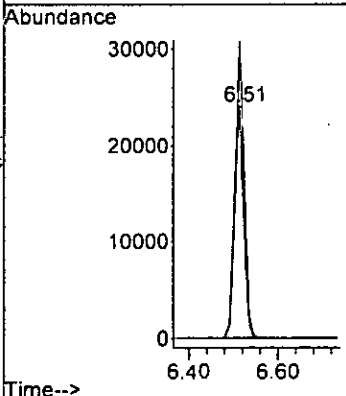
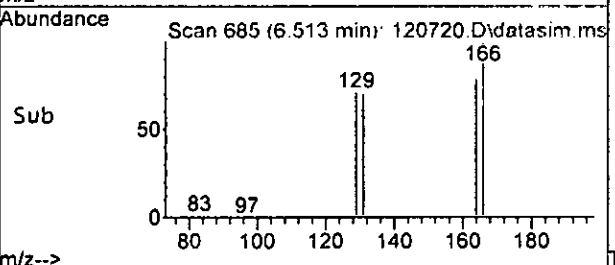


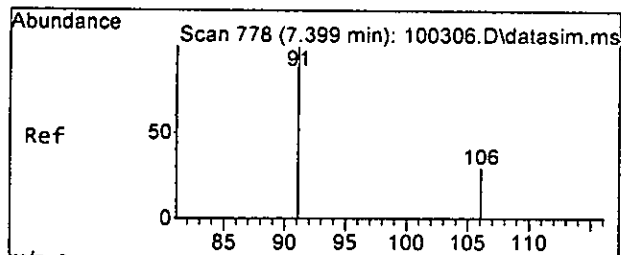
#45  
 Tetrachloroethene  
 Concen: 27.821 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. 0.000 min  
 Lab File: 120720.D  
 Acq: 07 Dec 2022 03:02 pm



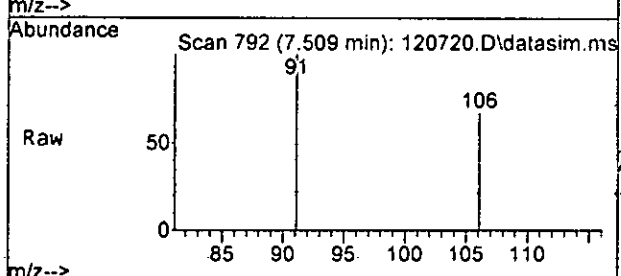
Tgt Ion: 164 Resp: 33333

Ion	Ratio	Lower	Upper
164	100		
129	91.6	62.5	122.5
131	89.7	60.3	120.3
166	128.2	98.4	158.4

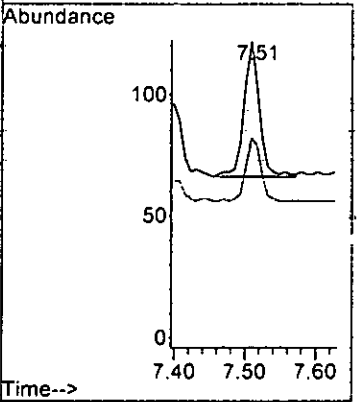
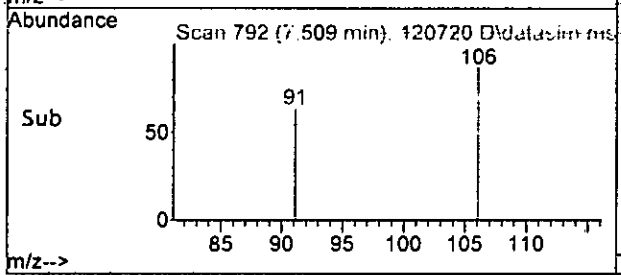




#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.51 min Scan# 792  
 Delta R.T. 0.109 min  
 Lab File: 120720.D  
 Acq: 07 Dec 2022 03:02 pm



Tgt Ion: 91 Resp: 85  
 Ion Ratio Lower Upper  
 91 100  
 106 46.4 0.0 58.4



Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120720.D  
 Acq On : 07 Dec 2022 03:02 pm  
 Operator : LM  
 Sample : 212059-07 1/100  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:49:52 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	44660	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	36422	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19361	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.07	113	12047	10.235	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	102.40%		
30) 1,2-Dichloroethane-d4	4.36	102	2650	9.954	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery =	99.50%		
35) Toluene-d8	5.98	98	42741	9.811	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery =	98.10%		
57) 4-Bromofluorobenzene	8.38	95	17267	10.322	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery =	103.20%		
<b>Target Compounds</b>						
2) Ethanol	0.00		0		N.D.	Qvalue
4) Dichlorodifluoromethane	0.00		0		N.D.	
5) Chloromethane	1.23	50	333		Below Cal	63
6) Vinyl chloride	0.00		0		N.D.	
7) Bromomethane	1.52	94	446		Below Cal #	18
8) Chloroethane	0.00		0		N.D.	
9) Trichlorofluoromethane	0.00		0		N.D.	
10) 2-Propanol	0.00		0		N.D.	
11) Acetone	2.26	58	268	1.923	ppb #	66
12) 1,1-Dichloroethene	0.00		0		N.D.	
13) Hexane	0.00		0		N.D.	
14) Methylene chloride	2.61	84	1319	0.380	ppb	93
15) t-Butyl alcohol (TBA)	0.00		0		N.D.	
16) Methyl t-butyl ether (...)	0.00		0		N.D.	
17) trans-1,2-Dichloroethene	0.00		0		N.D.	
18) Diisopropyl ether (DIPE)	0.00		0		N.D.	
19) 1,1-Dichloroethane	0.00		0		N.D.	
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.	
21) 2,2-Dichloropropane	3.65	77	55		Below Cal #	1
22] cis-1,2-Dichloroethene	3.67	96	591	0.430	ppb	94
23) Chloroform	0.00		0		N.D.	
24) 2-Butanone (MEK)	3.64	43	121		Below Cal #	22
25) t-Amyl methyl ether (T...)	0.00		0		N.D.	
26) 1,2-Dichloroethane (EDC)	0.00		0		N.D.	
27) 1,1,1-Trichloroethane	0.00		0		N.D.	
28) 1,1-Dichloropropene	0.00		0		N.D.	
29) Carbon tetrachloride	0.00		0		N.D.	
31) Benzene	0.00		0		N.D.	
32] Trichloroethene	4.93	95	2719	1.886	ppb	98
33) 1,2-Dichloropropane	0.00		0		N.D.	
34) Bromodichloromethane	0.00		0		N.D.	
36) Dibromomethane	0.00		0		N.D.	

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120720.D  
 Acq On : 07 Dec 2022 03:02 pm  
 Operator : LM  
 Sample : 212059-07 1/100  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

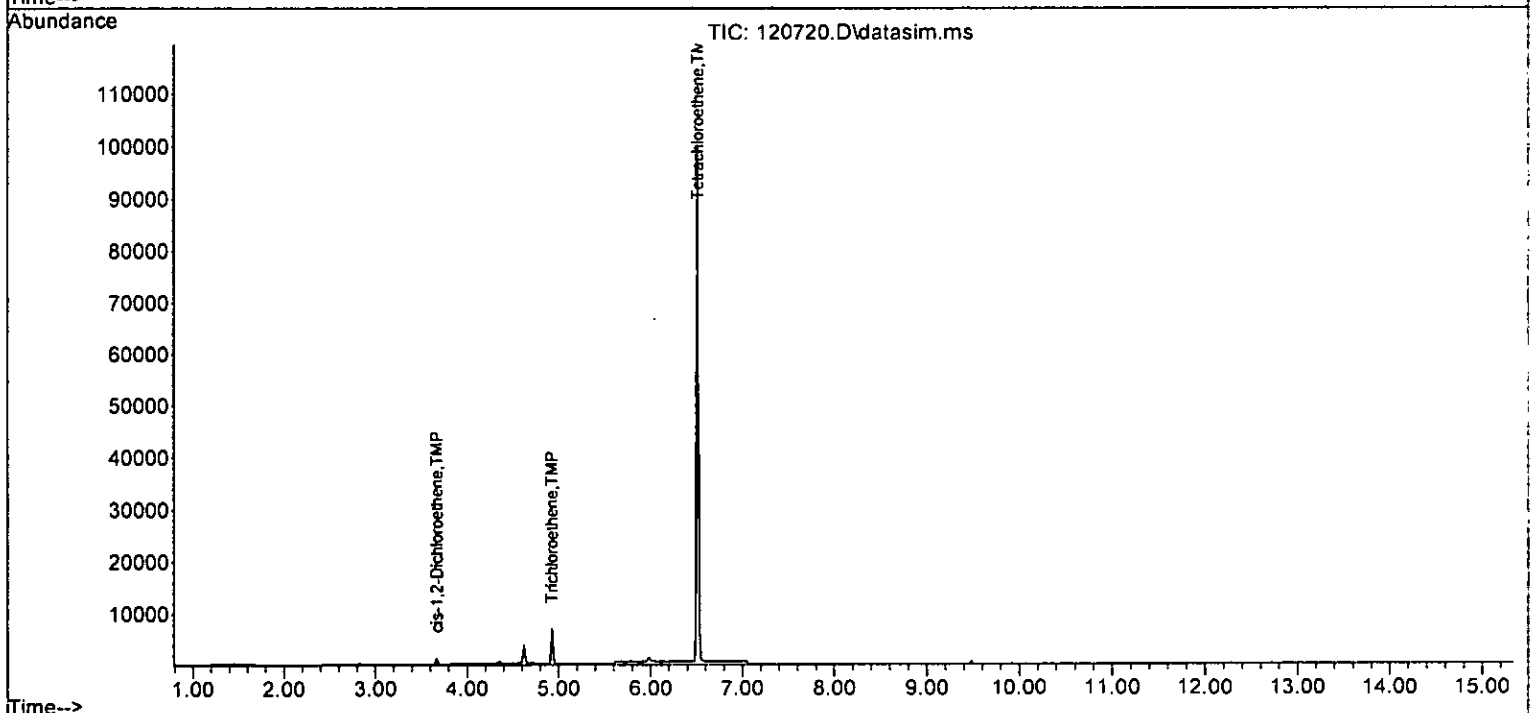
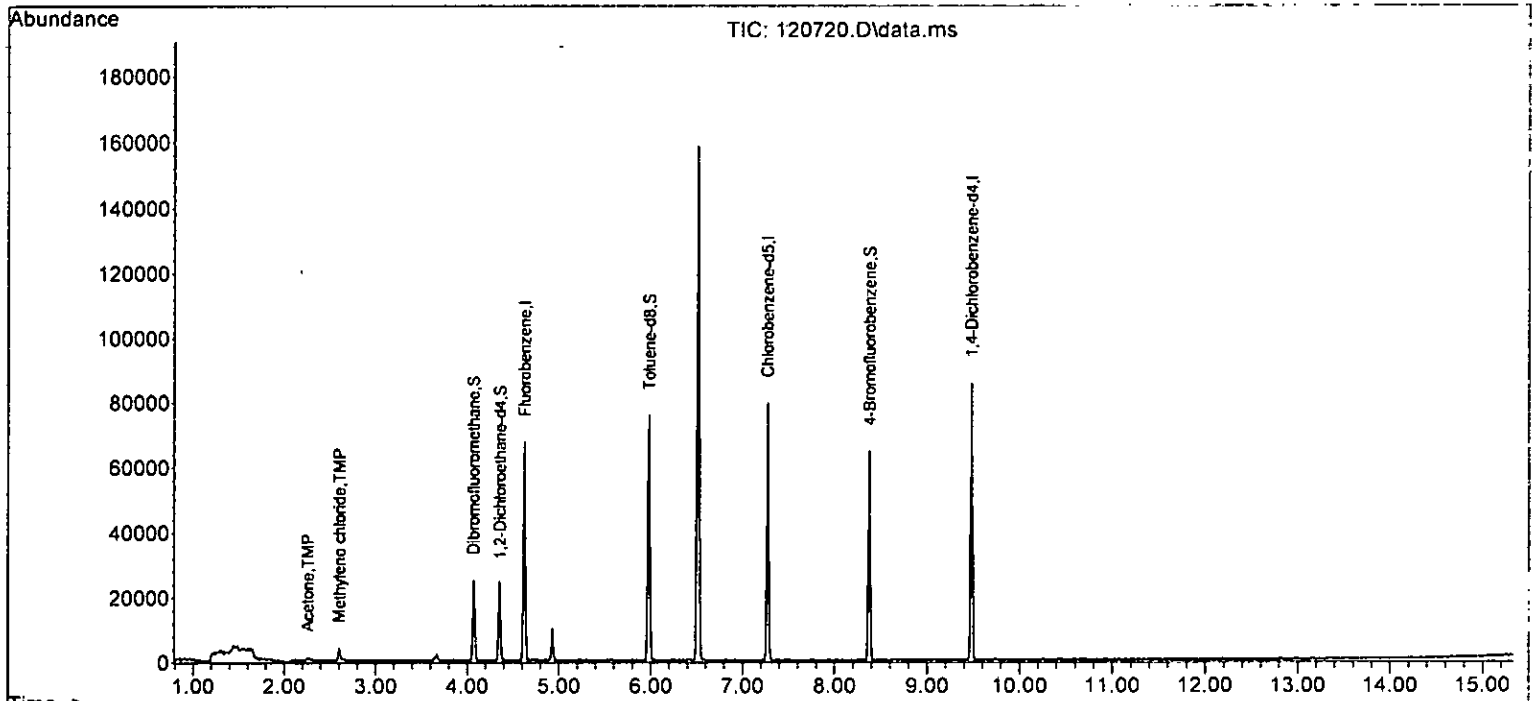
Quant Time: Dec 08 07:49:52 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40) Toluene	0.00		0		N.D.	
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D. d	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.51	164	33333	27.821	ppb	99
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.51	91	85	Below Cal		66
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51) m,p-Xylene	0.00		0		N.D.	
52) o-Xylene	0.00		0		N.D.	
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.63	91	60		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.63	91	60		N.D.	
64) 4-Chlorotoluene	8.63	91	60		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	0.00		0		N.D.	
67) sec-Butylbenzene	0.00		0		N.D.	
68) p-Isopropyltoluene	0.00		0		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.68	128	75		N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120720.D  
 Acq On : 07 Dec 2022 03:02 pm  
 Operator : LM  
 Sample : 212059-07 1/100  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

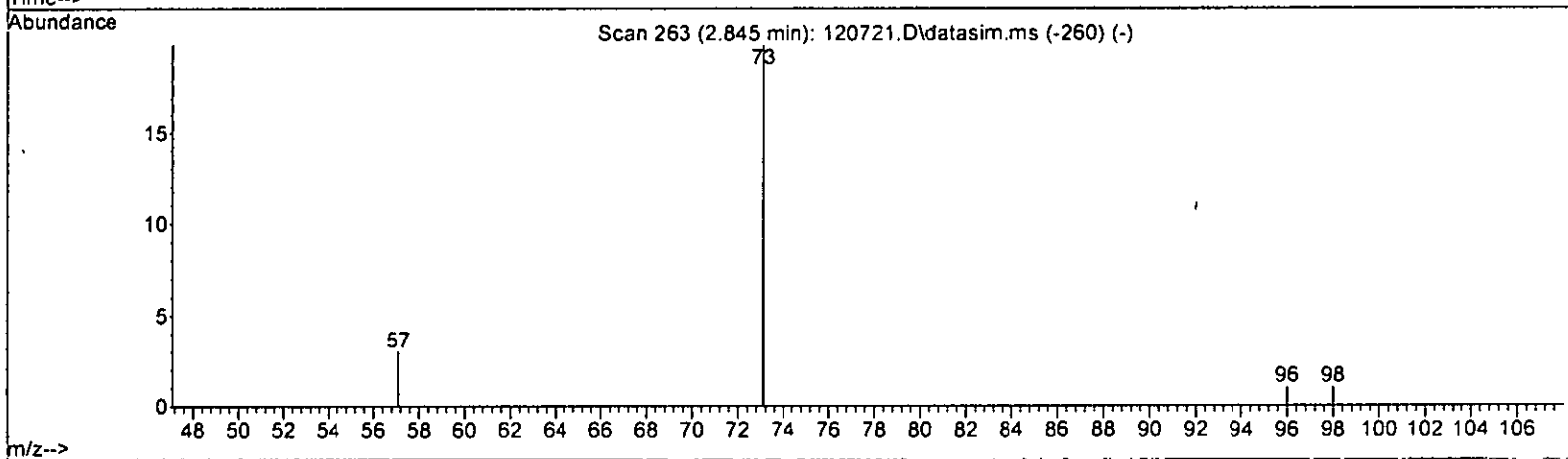
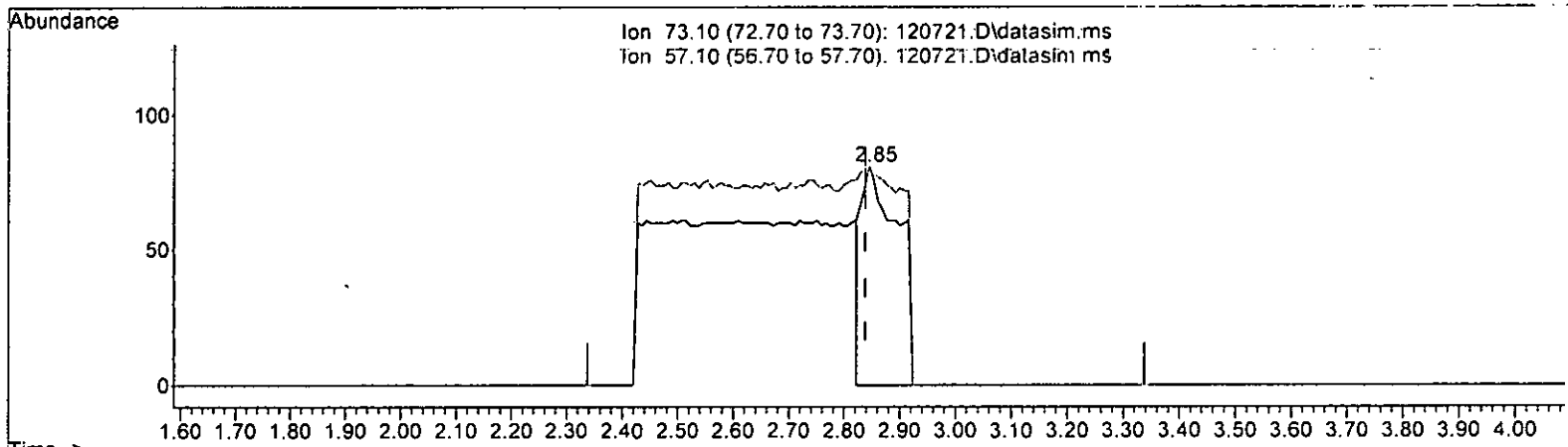
Quant Time: Dec 08 07:49:52 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120721.D  
 Acq On : 07 Dec 2022 03:25 pm  
 Operator : LM  
 Sample : 212059-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:49:56 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M



TIC: 120721.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

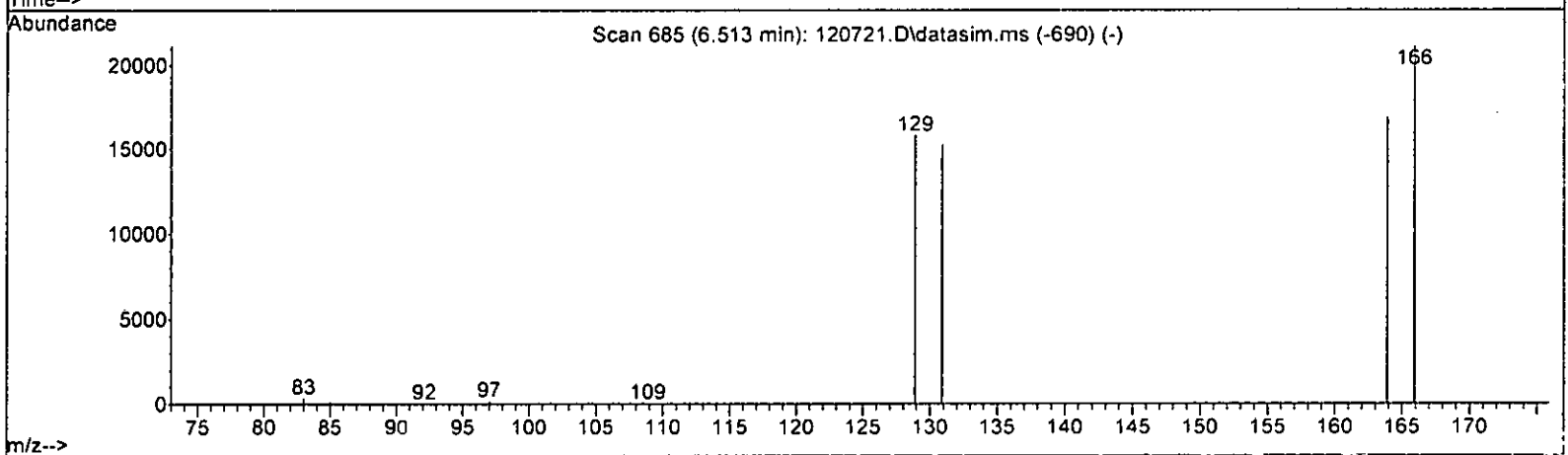
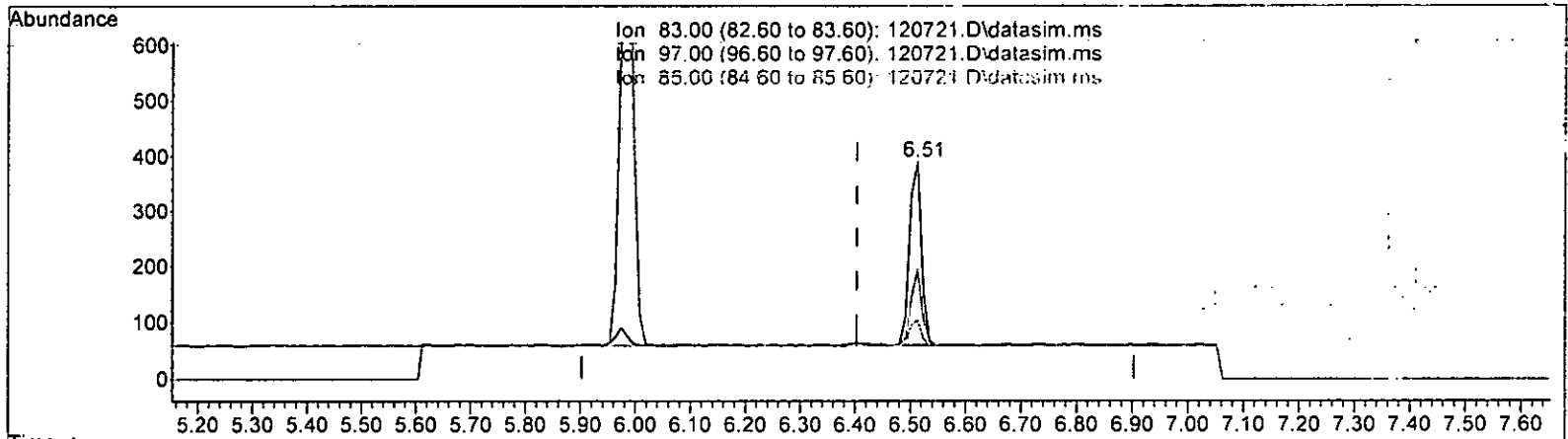
2.845min (+ 0.007) 0.094 ppb

response	375
Ion	Exp% Act%
73.10	100.00 100.00
57.10	26.70 97.53#
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120721.D  
 Acq On : 07 Dec 2022 03:25 pm  
 Operator : LM  
 Sample : 212059-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:49:56 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120721.D\data.ms

(42) 1,1,2-Trichloroethane (TMP)

6.513min (+ 0.110) 0.474 ppb

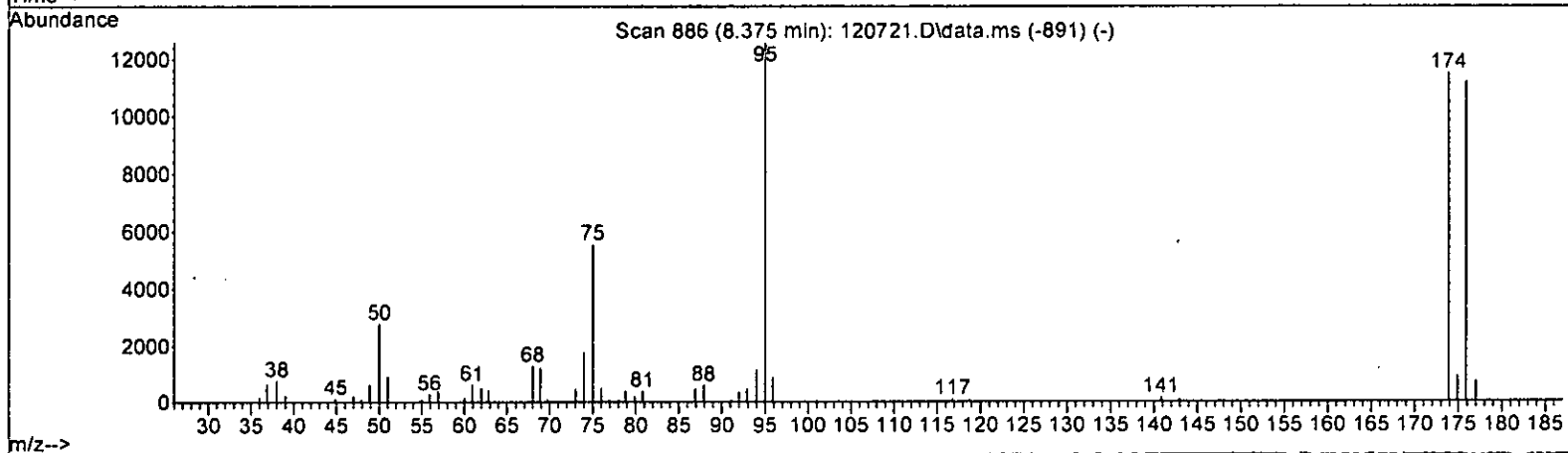
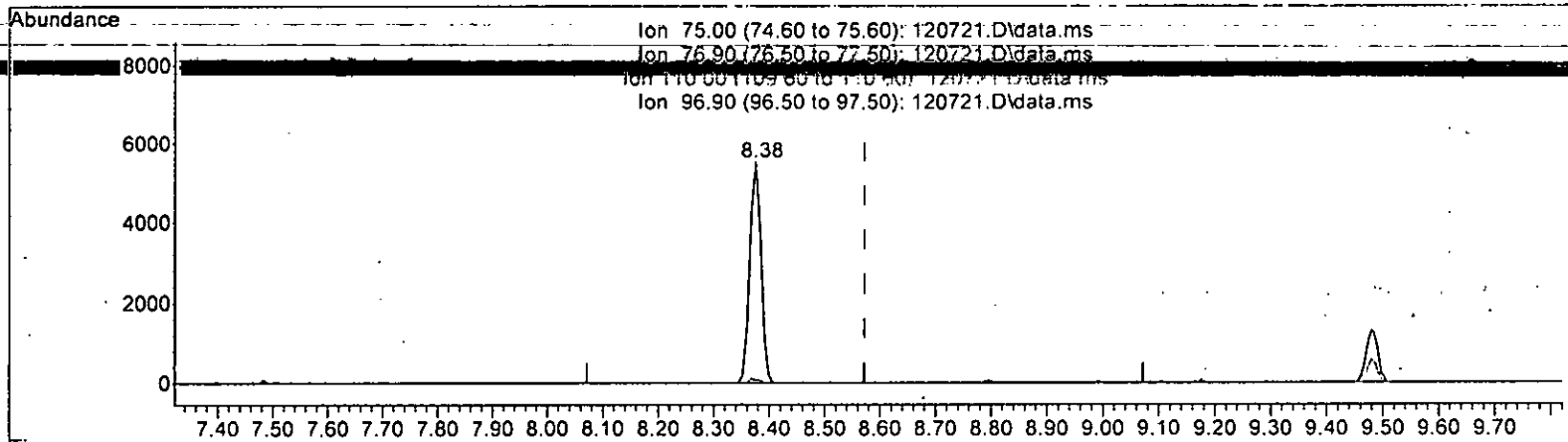
response	499	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	109.70	41.39#
85.00	64.60	14.50#
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120721.D  
 Acq On : 07 Dec 2022 03:25 pm  
 Operator : LM  
 Sample : 212059-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:49:56 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120721.D\data.ms

(62) 1,2,3-Trichloropropane (TMP)

8.375min (-0.197) 6.693 ppb

response 7786

Ion	Exp%	Act%
75.00	100.00	100.00
76.90	26.80	1.28
110.00	32.90	0.00#
96.90	16.30	0.00

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120721.D  
 Acq On : 07 Dec 2022 03:25 pm  
 Operator : LM  
 Sample : 212059-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

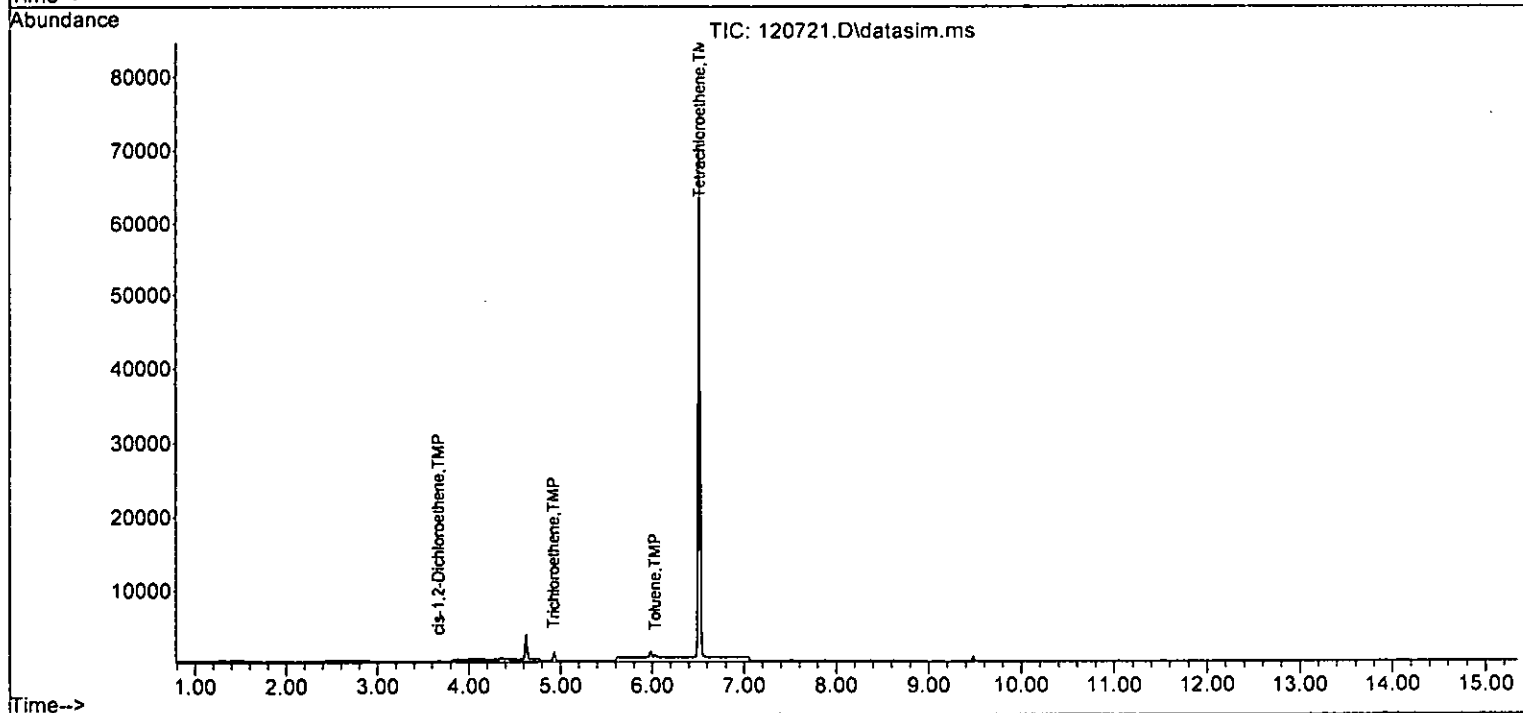
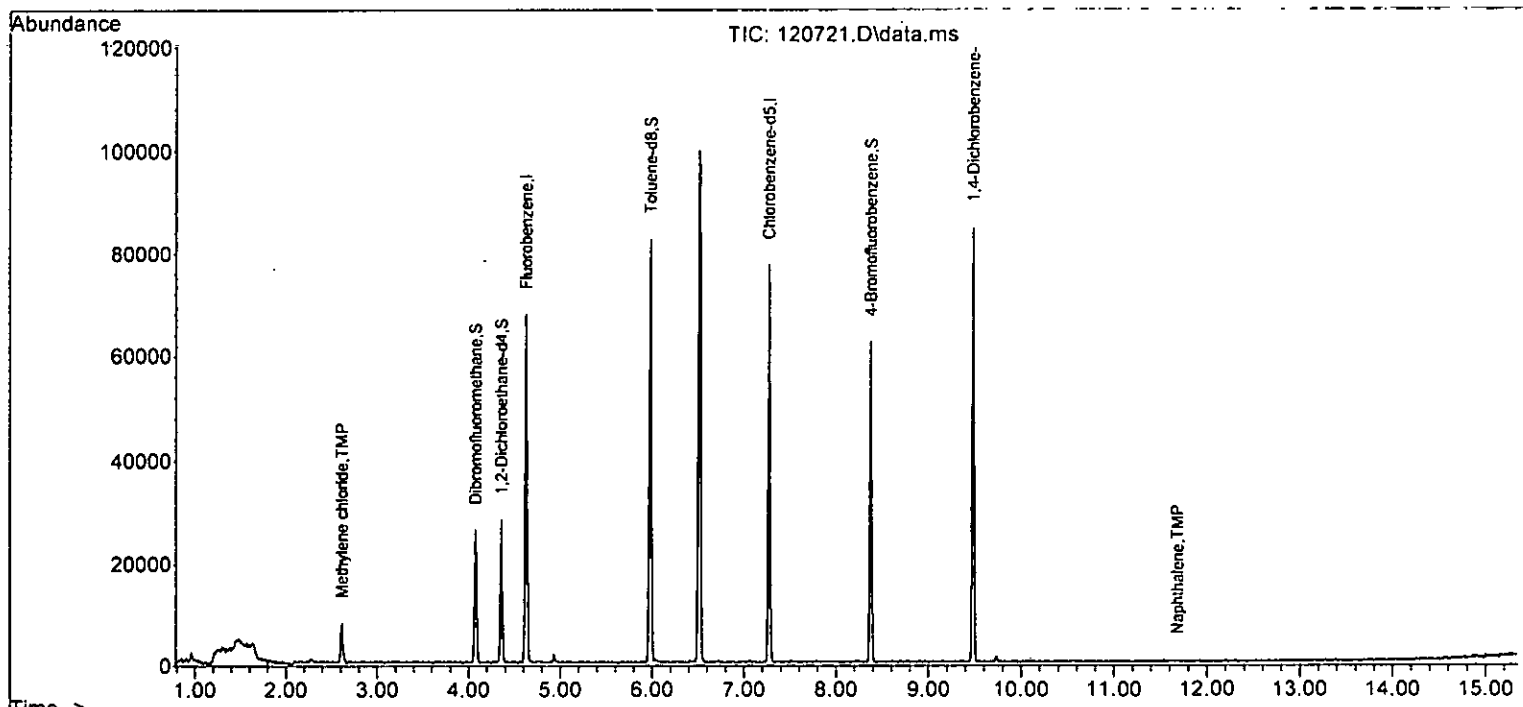
Quant Time: Dec 08 07:49:56 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

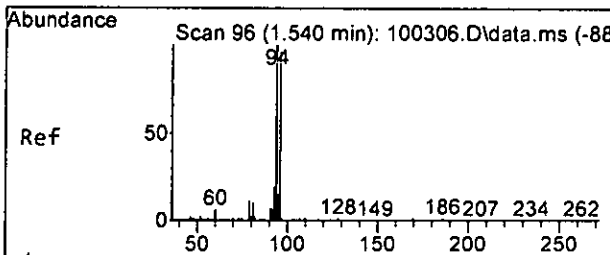
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	45250	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	36237	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19429	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11907	9.985	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.80%	
30) 1,2-Dichloroethane-d4	4.36	102	2595	9.620	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	96.20%	
35) Toluene-d8	5.98	98	44042	9.978	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	99.80%	
57) 4-Bromofluorobenzene	8.38	95	16760	9.984	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	99.80%	
Target Compounds						
5) Chloromethane	1.24	50	565	Below Cal		96
7) Bromomethane	1.55	94	323	Below Cal	#	18
14) Methylene chloride	2.61	84	2599	1.444	ppb	78
22] cis-1,2-Dichloroethene	3.67	96	53	0.016	ppb	94
24) 2-Butanone (MEK)	3.70	43	101	Below Cal		63
32] Trichloroethene	4.93	95	458	0.289	ppb	91
40] Toluene	6.03	92	138	0.017	ppb	93
45] Tetrachloroethene	6.51	164	23860	19.981	ppb	98
49] Ethylbenzene	7.40	91	82	Below Cal		96
51] m,p-Xylene	7.51	106	104	Below Cal		99
75) Naphthalene	11.68	128	184	0.039	ppb	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120721.D  
 Acq On : 07 Dec 2022 03:25 pm  
 Operator : LM  
 Sample : 212059-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

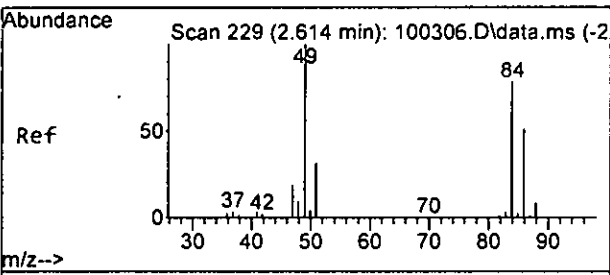
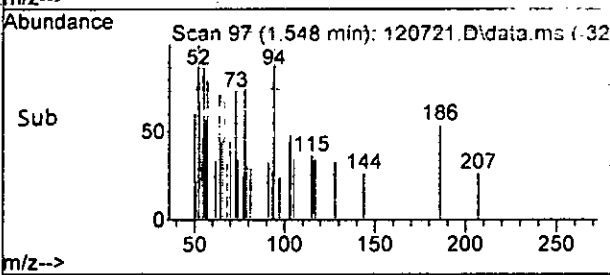
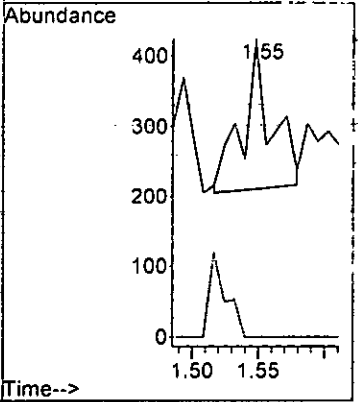
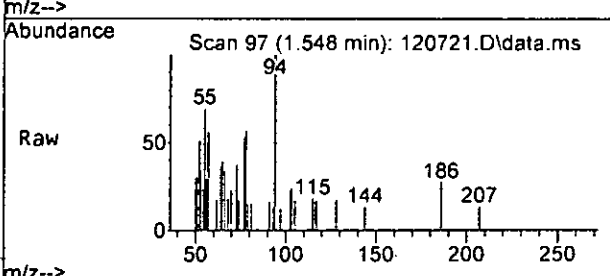
Quant Time: Dec 08 07:49:56 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





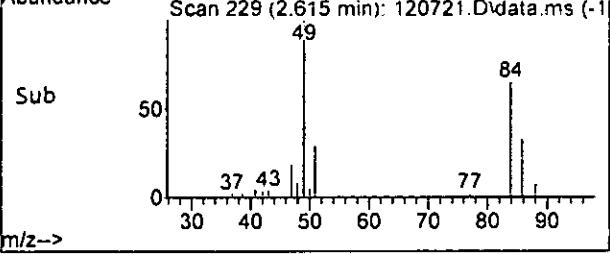
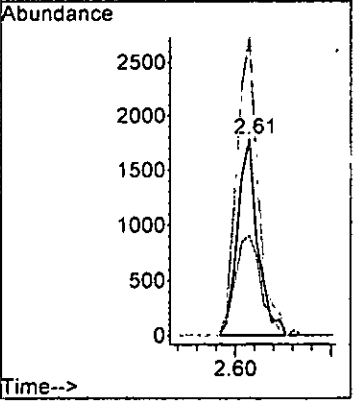
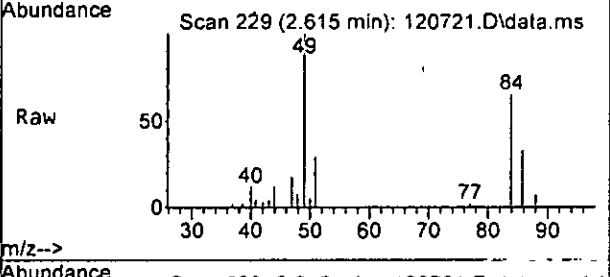
#7  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.55 min Scan# 97  
 Delta R.T. 0.008 min  
 Lab File: 120721.D  
 Acq: 07 Dec 2022 03:25 pm

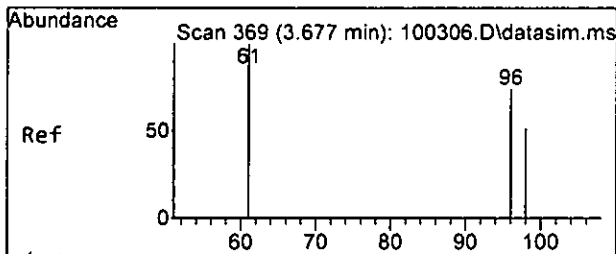
Tgt Ion: 94 Resp: 323  
 Ion Ratio Lower Upper  
 94 100  
 96 0.0 33.9 93.9#



#14  
 Methylene chloride  
 Concen: 1.444 ppb  
 RT: 2.61 min Scan# 229  
 Delta R.T. 0.007 min  
 Lab File: 120721.D  
 Acq: 07 Dec 2022 03:25 pm

Tgt Ion: 84 Resp: 2599  
 Ion Ratio Lower Upper  
 84 100  
 86 50.9 30.4 90.4  
 49 152.8 93.0 153.0

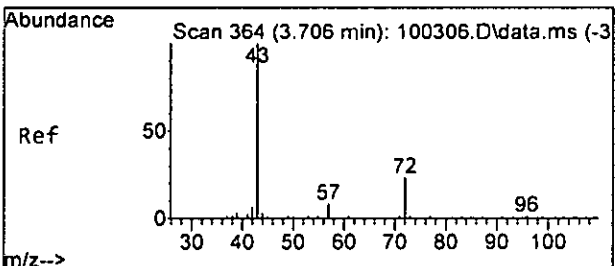
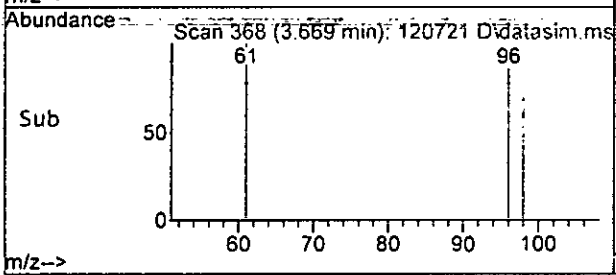
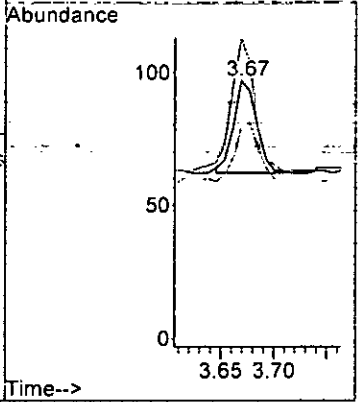
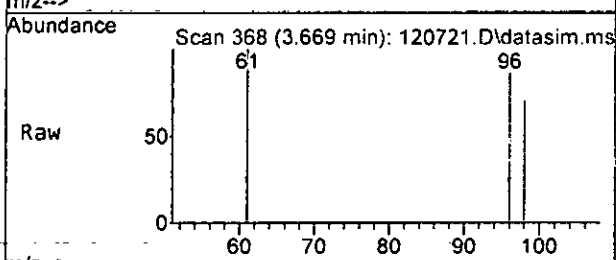




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.016 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. 0.000 min  
 Lab File: 120721.D  
 Acq: 07 Dec 2022 03:25 pm

Tgt Ion: 96 Resp: 53

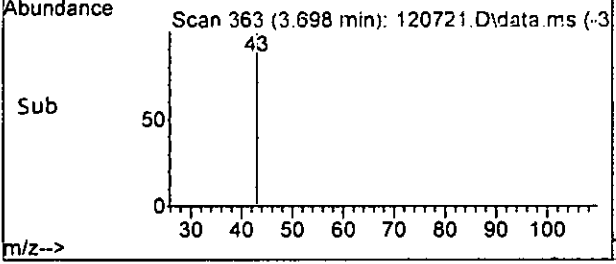
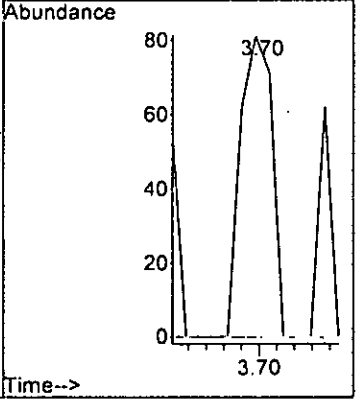
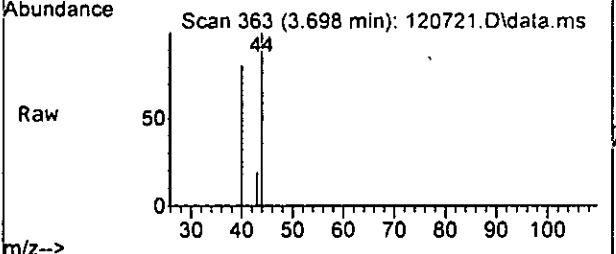
Ion	Ratio	Lower	Upper
96	100		
61	142.9	116.5	176.5
98	57.1	36.7	96.7

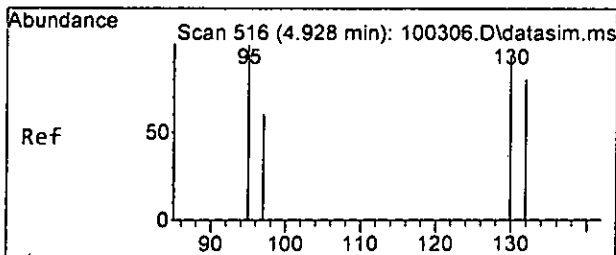


#24  
 2-Butanone (MEK)  
 Concen: Below Cal  
 RT: 3.70 min Scan# 363  
 Delta R.T. -0.008 min  
 Lab File: 120721.D  
 Acq: 07 Dec 2022 03:25 pm

Tgt Ion: 43 Resp: 101

Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	49.9
57	0.0	0.0	28.2

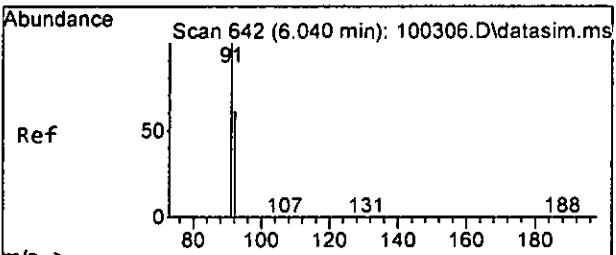
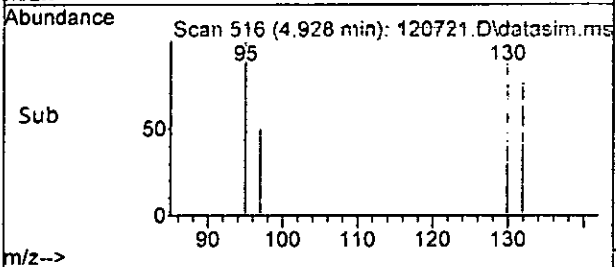
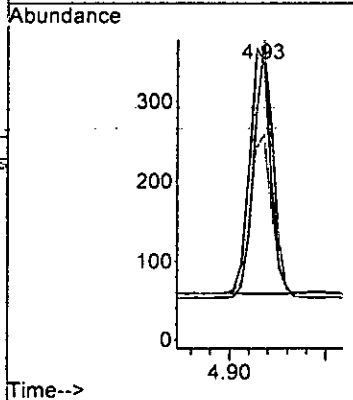
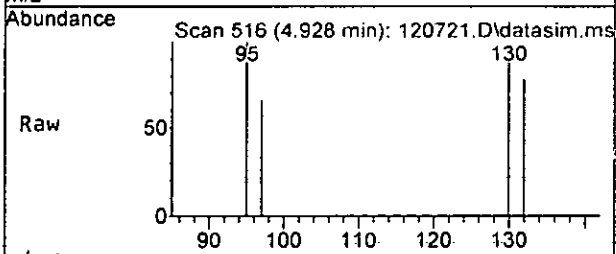




#32  
 Trichloroethene  
 Concen: 0.289 ppb  
 RT: 4.93 min Scan# 516  
 Delta R.T. -0.000 min  
 Lab File: 120721.D  
 Acq: 07 Dec 2022 03:25 pm

Tgt Ion: 95 Resp: 458

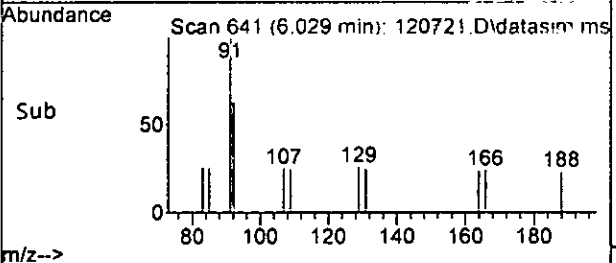
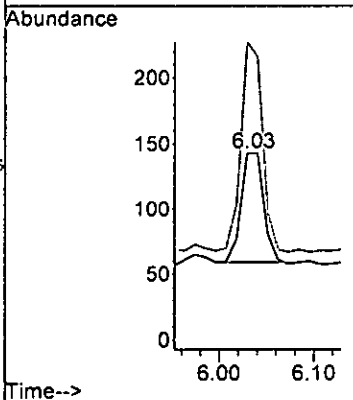
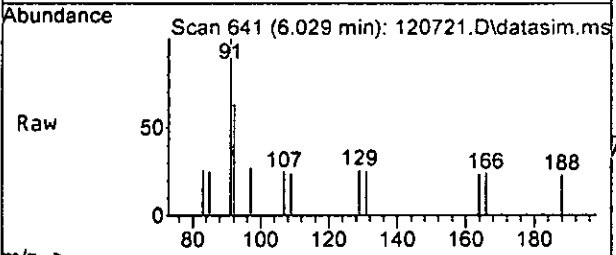
Ion	Ratio	Lower	Upper
95	100		
97	59.7	33.6	93.6
130	86.7	65.5	125.5
132	76.0	57.2	117.2

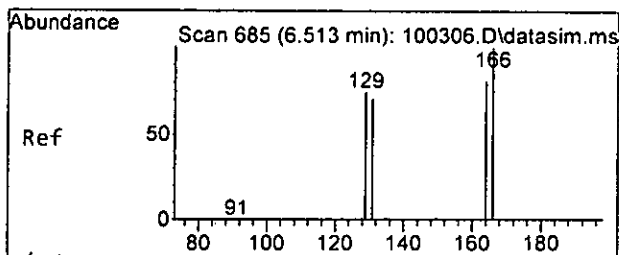


#40  
 Toluene  
 Concen: 0.017 ppb  
 RT: 6.03 min Scan# 641  
 Delta R.T. -0.001 min  
 Lab File: 120721.D  
 Acq: 07 Dec 2022 03:25 pm

Tgt Ion: 92 Resp: 138

Ion	Ratio	Lower	Upper
92	100		
91	189.3	148.8	208.8

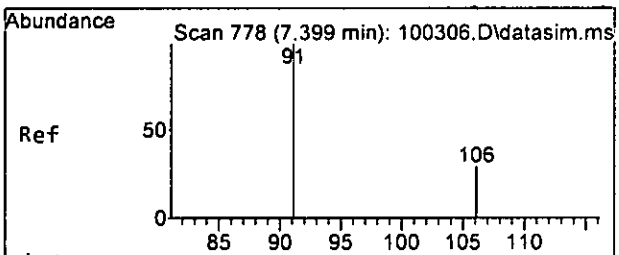
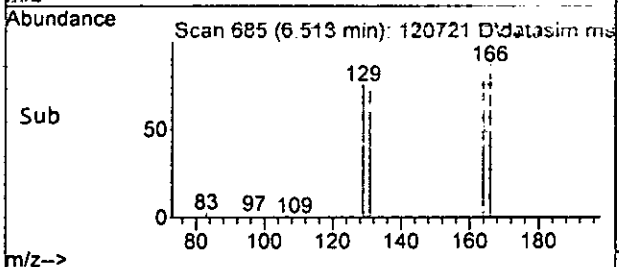
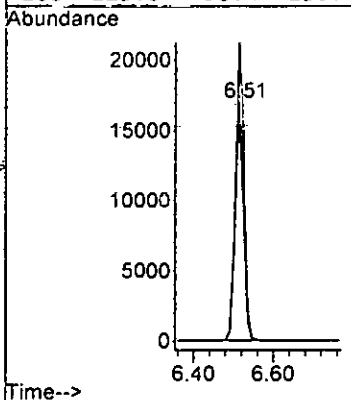
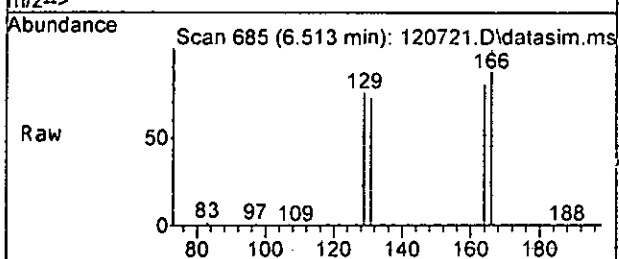




#45  
 Tetrachloroethene  
 Concen: 19.981 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. 0.000 min  
 Lab File: 120721.D  
 Acq: 07 Dec 2022 03:25 pm

Tgt Ion: 164 Resp: 23860

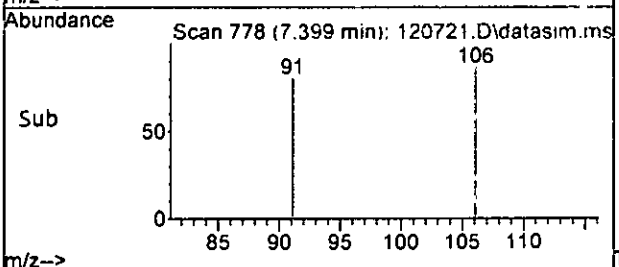
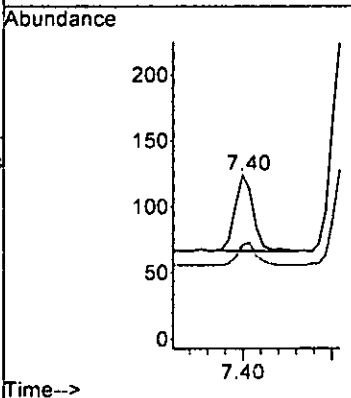
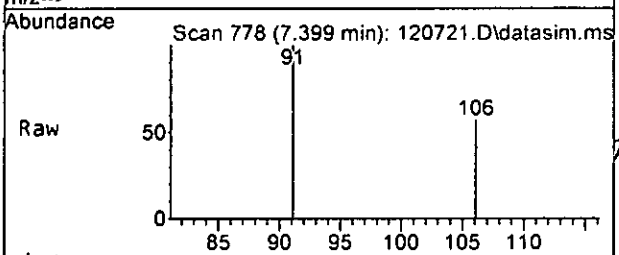
Ion	Ratio	Lower	Upper
164	100		
129	93.7	62.5	122.5
131	90.2	60.3	120.3
166	125.0	98.4	158.4

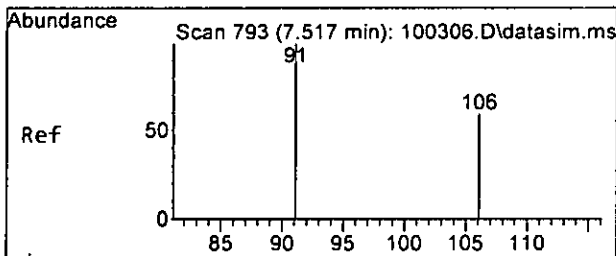


#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.40 min Scan# 778  
 Delta R.T. -0.001 min  
 Lab File: 120721.D  
 Acq: 07 Dec 2022 03:25 pm

Tgt Ion: 91 Resp: 82

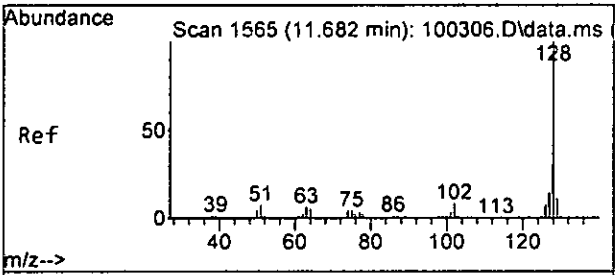
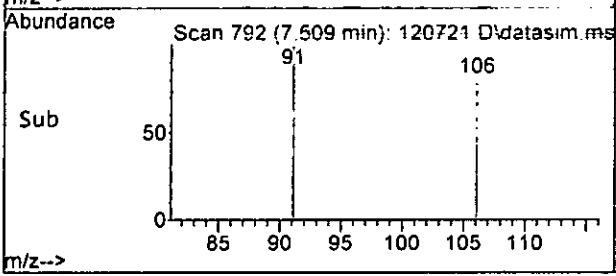
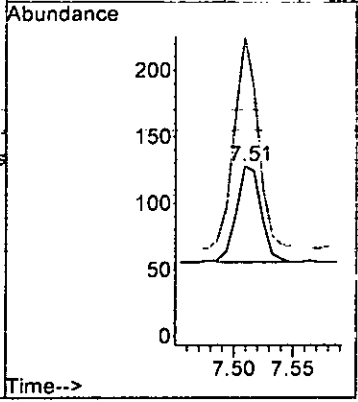
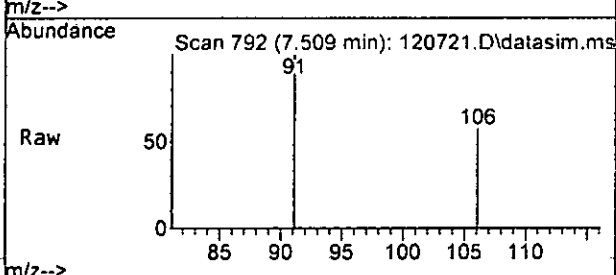
Ion	Ratio	Lower	Upper
91	100		
106	26.3	0.0	58.4





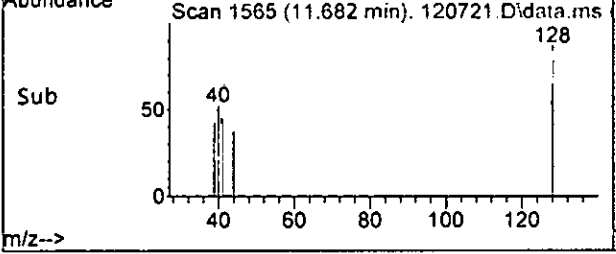
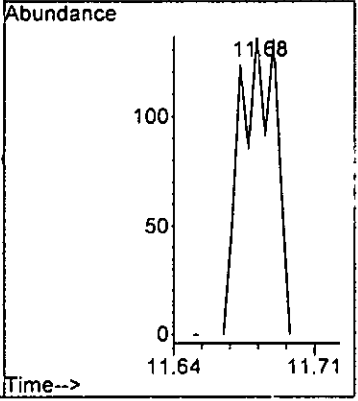
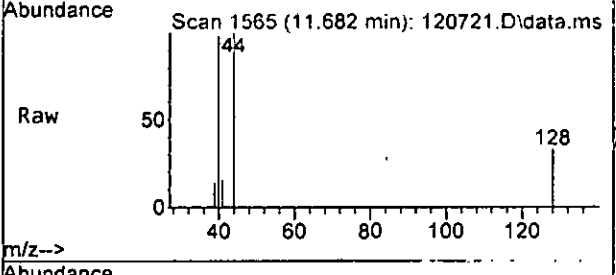
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.51 min Scan# 792  
 Delta R.T. -0.000 min  
 Lab File: 120721.D  
 Acq: 07 Dec 2022 03:25 pm

Tgt Ion: 106 Resp: 104  
 Ion Ratio Lower Upper  
 106 100  
 91 219.4 191.7 251.7



#75  
 Naphthalene  
 Concen: 0.039 ppb  
 RT: 11.68 min Scan# 1565  
 Delta R.T. -0.000 min  
 Lab File: 120721.D  
 Acq: 07 Dec 2022 03:25 pm

Tgt Ion: 128 Resp: 184  
 Ion Ratio Lower Upper  
 128 100  
 129 0.0 0.0 41.7  
 127 0.0 0.0 43.5





Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120721.D  
 Acq On : 07 Dec 2022 03:25 pm  
 Operator : LM  
 Sample : 212059-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:49:56 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	45250	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	36237	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19429	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	11907	9.985	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.80%	
30) 1,2-Dichloroethane-d4	4.36	102	2595	9.620	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	96.20%	
35) Toluene-d8	5.98	98	44042	9.978	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	99.80%	
57) 4-Bromofluorobenzene	8.38	95	16760	9.984	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	99.80%	
<b>Target Compounds</b>						
2) Ethanol	0.00		0		N.D.	Qvalue
4) Dichlorodifluoromethane	0.00		0		N.D.	
5) Chloromethane	1.24	50	565		Below Cal	96
6) Vinyl chloride	1.27	62	126		N.D.	
7) Bromomethane	1.55	94	323		Below Cal #	18
8) Chloroethane	0.00		0		N.D.	
9) Trichlorofluoromethane	0.00		0		N.D.	
10) 2-Propanol	0.00		0		N.D.	
11) Acetone	2.27	58	119		N.D.	
12) 1,1-Dichloroethene	0.00		0		N.D.	
13) Hexane	0.00		0		N.D.	
14) Methylene chloride	2.61	84	2599	1.444	ppb	78
15) t-Butyl alcohol (TBA)	0.00		0		N.D.	
16) Methyl t-butyl ether (...)	0.00		0		N.D. d	
17) trans-1,2-Dichloroethene	0.00		0		N.D.	
18) Diisopropyl ether (DIPE)	0.00		0		N.D.	
19) 1,1-Dichloroethane	0.00		0		N.D.	
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.	
21) 2,2-Dichloropropane	0.00		0		N.D.	
22] cis-1,2-Dichloroethene	3.67	96	53	0.016	ppb	94
23) Chloroform	0.00		0		N.D.	
24) 2-Butanone (MEK)	3.70	43	101		Below Cal	63
25) t-Amyl methyl ether (T...)	0.00		0		N.D.	
26) 1,2-Dichloroethane (EDC)	0.00		0		N.D.	
27) 1,1,1-Trichloroethane	0.00		0		N.D.	
28) 1,1-Dichloropropene	0.00		0		N.D.	
29) Carbon tetrachloride	0.00		0		N.D.	
31) Benzene	0.00		0		N.D.	
32] Trichloroethene	4.93	95	458	0.289	ppb	91
33) 1,2-Dichloropropane	0.00		0		N.D.	
34) Bromodichloromethane	0.00		0		N.D.	
36) Dibromomethane	0.00		0		N.D.	

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120721.D  
 Acq On : 07 Dec 2022 03:25 pm  
 Operator : LM  
 Sample : 212059-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

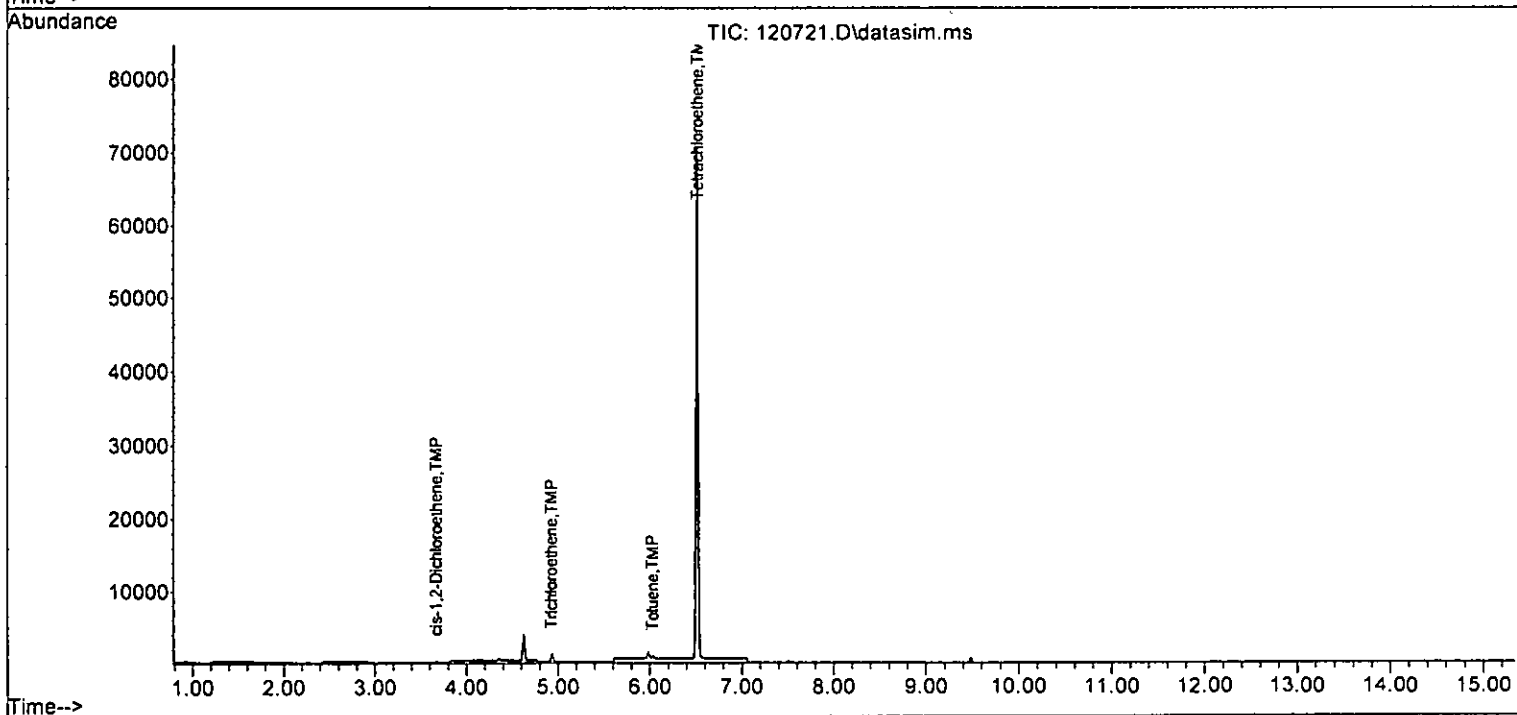
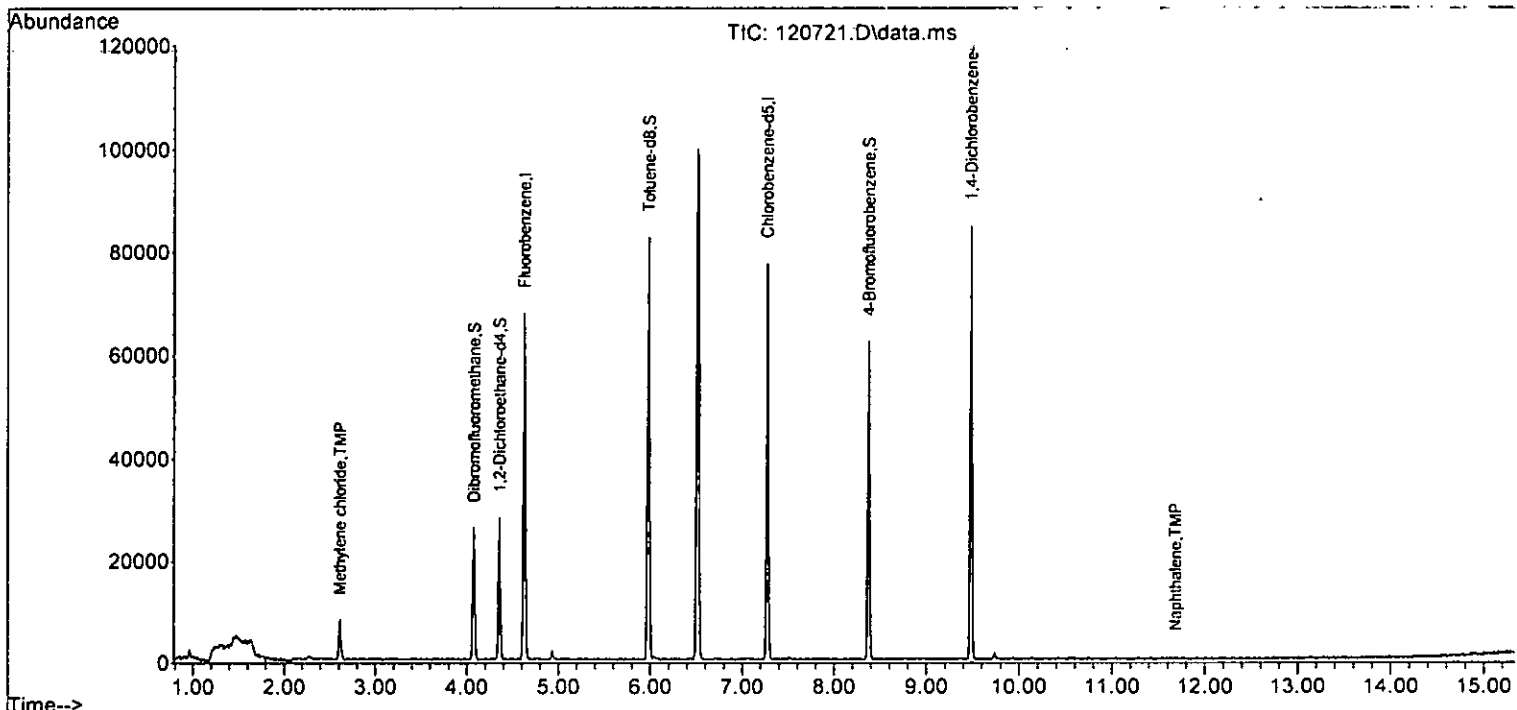
Quant Time: Dec 08 07:49:56 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.03	92	138	0.017	ppb	93
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D. d	
43) 2-Hexanone	6.72	43	88		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.51	164	23860	19.981	ppb	98
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.40	91	82	Below Cal		96
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.51	106	104	Below Cal		99
52) o-Xylene	0.00		0		N.D.	
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	0.00		0		N.D.	
64) 4-Chlorotoluene	0.00		0		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.15	105	176		N.D.	
67) sec-Butylbenzene	9.15	105	176		N.D.	
68) p-Isopropyltoluene	0.00		0		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.68	128	184	0.039	ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-07-22\  
 Data File : 120721.D  
 Acq On : 07 Dec 2022 03:25 pm  
 Operator : LM  
 Sample : 212059-08  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:49:56 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



F&B Project 212083

# Chain of Custody, Shipping & Receiving Documents, Sample Condition Checklist

**Chain of Custody Record & Laboratory Analysis Request 2/20/22**

12/06/22 MW2

Laboratory Number: Friedman and Brya  
 Date: 12/6/2022  
 Project Name: Carson Cleaners Remedial Investigation  
 Project Number: 212280-01.01  
 Project Manager: Gavin Casson / Jennifer Marsala  
 Phone Number: 206-287-9130  
 Shipment Method: Drop Off

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers		Test Parameters	Lab ID	Comments/Preservation
				CVOCs	EPA Method 8260C			
1	TB-20221206	12/6/2022	0800	H2O	3	X		
2	MW-18-GW-20221206	12/6/2022	0910	H2O	3	X		
3	MW-20-GW-20221206	12/6/2022	1510	H2O	3	X		
4	MW-22-GW-20221206	12/6/2022	1300	H2O	3	X		
5	MW-23-GW-20221206	12/6/2022	1400	H2O	3	X		
6	MW-25-GW-20221206	12/6/2022		H2O	3	X		
7	MW-27-GW-20221206	12/6/2022		H2O	3	X		
8	MW-28-GW-20221206	12/6/2022		H2O	3	X		
9	MW-29-GW-20221206	12-6-22	1120	H2O	3	Y		
10	MW-28-GW-20221206	12-6-22	1015	H2O	3	X		
11								
12								
13								
14								
15								

Notes: See QAPP for analytes and methods  
 Short-hold time on CVOCs  
 Samples received at 20C

Groundwater Samples

Relinquished By: STEPHEN SMETHIL Company: Anchor OEA, LLC Date/Time: 12-6-22 / 1632

Received By: ANHPHANI Company: F&B Date/Time: 12/06/22 / 16:32

Relinquished By: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

NP

ANCHOR OEA  
 TURN ARROUND: STANWARD

**SAMPLE CONDITION UPON RECEIPT CHECKLIST**

PROJECT # 2/2083 CLIENT Anchev INITIALS/ DATE: AP 12/66/22

If custody seals are present on cooler, are they intact?  NA  YES  NO

Cooler/Sample temperature 2 °C

Were samples received on ice/cold packs?  YES  NO

How did samples arrive?  Over the Counter  
 Picked up by F&BI  
 FedEx/UPS/GSO

Number of days samples have been sitting prior to receipt at laboratory 0 days

Is there a Chain-of-Custody\* (COC)?  YES  NO  
\*or other representative documents, letters, and/or shipping memos

Are the samples clearly identified? (explain "no" answer below)  YES  NO

Is the following information provided on the COC\* ? (explain "no" answer below)

Sample ID's	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	# of Containers	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Date Sampled	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Relinquished	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Time Sampled	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Requested analysis	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below)  YES  NO

Were appropriate sample containers used?  YES  NO  Unknown

If custody seals are present on samples, are they intact?  NA  YES  NO

Are samples requiring no headspace, headspace free?  NA  YES  NO

Air Samples: Were any additional canisters received?  NA  YES  NO

If Yes, number of unused 1L canisters \_\_\_\_\_  
 number of unused 6L canisters \_\_\_\_\_

(3x vocs) Explain "no" items from above (use the back if needed)  
no set of TB-20 22206. JCCJ eved  
EB Trip Blank not on COC

# Laboratory Worksheets



# VOC EXTRACTION WORKSHEET (WATER)

HT \_\_\_\_\_

Project #: 212083  
 Client: ACQ  
 QC Batch ID: 2859  
 Samples checked against COC

Date Received: 12/6/22  
 Date Extracted: DEC 8 '22 9:51  
 Date Analyzed: 12-14-22 / 12-9-22  
 GCMS  4  11  13, Seq. Date 1

<b>Analysis Method:</b> <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8260 SIM <input type="checkbox"/> 524.2 SIM <input type="checkbox"/> Other _____	<b>Requested Analytes:</b> <input type="checkbox"/> 8260 Normal List <input type="checkbox"/> MTBE <input type="checkbox"/> cVOCs <input checked="" type="checkbox"/> PCE/Daughters	<b>Reporting Units:</b> <input checked="" type="checkbox"/> µg/L (ppb) <input type="checkbox"/> Other _____	<b>Extraction Method:</b> <input checked="" type="checkbox"/> 5030
Due Date: <u>12/14</u>	VC to 0.02 cis/trans DCE, TCE, PCE to 0.05		
<input type="checkbox"/> ve's not Acceptable <input type="checkbox"/> Dilutions Not Acceptable for Non-Detects <input type="checkbox"/> Need EDF			

Sample ID	pH	Sample Volume (mL)	Final Volume (mL)	Dilutions		Dilution Factor	Foamy Sample	Observations
				Amt. Extract	Amt. Solvent			
01A	6.2					FS		Screen
02						FS		
03						FS		
04				4.3 mL		<del>FS</del>		No dilution
05				4.3		<del>FS</del> 1/10		
06						FS		
07						FS		run last
m 12/14								
-04B	6.2					1/10		re bar
-05						1/10		VC ca
-06						FS		# runs bar
-07								VC only

Initials m 12/14

	Volume	Conc. (ppm)	Compound(s)	Lot #	Initials	Date
Solvent	NA	NA	DI Water			
Other						
Internal Standard(s)/ Surrogate(s)	100 µl	250	Surrogate mix			
	<input checked="" type="checkbox"/>	10 ppm Surr/IS Mix spiked at instr. to yield 10 ppb		07-148	UH	12-14
		25 ppm Surr/IS Mix spiked at instr. to yield 5 ppb				

Project Leader Initials: MH NOTES: \_\_\_\_\_

Calculated by m 12.15 Reviewed by YA 12/15/22



**EPA 8260D**  
**MDLs**

Reported MDL Data and Calculations

Analyst fill in all below (attach extraction worksheet(s))

Analysis: 8260 Standard(s) spiked: 8260 Cal Std. (50/250 ppm)  
 Matrix: Water Volume spiked: 4.3 uL (60-190a) and 8.6 uL (60-190b), 43 uL (60-190c)  
 Instrument ID: GCMS #11 Date(s) Extracted: 05/04/21, 05/26/21, 08/30/21, 08/31/21, 12/08/21, 12/01/21  
 Reporting Units: ug/L Date(s) Analyzed: 05/04/21, 05/26/21, 08/30/21, 08/31/21, 12/08/21, 12/01/21  
 Date Calculated: 6/3/2021, 09/01/22, 09/24/21, 12/09/21, 12/10/21, 02/22/22  
 Calculation Analyst: JCM, WE, AS

Analyte	(StdDev*2.998)	(2*MDL)	(5*MDL)	Std Dev	Mean	Spike Level	% Rec.
	MDL	PQL	PQL				
Ethanol							
Dichlorodifluoromethane	0.246	0.492	1.230	0.082	0.264	0.200	132
Chloromethane	1.615	3.230	8.074	0.539	5.331	5.000	107
Vinyl chloride	0.018	0.036	0.090	0.006	0.052	0.050	105
Bromomethane	3.116	6.232	15.579	1.039	5.948	5.000	119
Chloroethane	0.143	0.286	0.715	0.048	0.270	0.200	135
Trichlorofluoromethane	0.187	0.374	0.936	0.062	0.223	0.200	112
2-Propanol							
Acetone	4.651	9.301	23.254	1.551	12.835	10.000	128
1,1-Dichloroethene	0.034	0.069	0.172	0.011	0.063	0.050	126
Hexane	0.124	0.248	0.620	0.041	0.244	0.200	122
Methylene chloride	2.640	5.279	13.198	0.880	5.052	5.000	101
t-Butyl alcohol (TBA)	7.869	15.739	39.347	2.625	25.924	25.000	104
Methyl t-butyl ether (MTBE)	0.004	0.009	0.022	0.001	0.052	0.050	105
trans-1,2-Dichloroethene	0.035	0.069	0.173	0.012	0.215	0.200	107
Diisopropyl ether (DIPE)	0.049	0.099	0.247	0.017	0.203	0.200	101
1,1-Dichloroethane	0.006	0.012	0.030	0.002	0.024	0.020	121
Ethyl t-butyl ether (ETBE)	0.070	0.141	0.352	0.023	0.204	0.200	102
2,2-Dichloropropane	0.170	0.340	0.849	0.057	0.192	0.200	96
cis-1,2-Dichloroethene	0.016	0.031	0.078	0.005	0.059	0.050	117
Chloroform	0.050	0.100	0.251	0.017	0.214	0.200	107
2-Butanone (MEK)	2.997	5.994	14.985	1.000	11.380	10.000	114
t-Amyl methyl ether (TAME)	0.061	0.123	0.307	0.020	0.201	0.200	101
1,2-Dichloroethane (EDC)	0.051	0.101	0.253	0.017	0.218	0.200	109
1,1,1-Trichloroethane	0.007	0.014	0.035	0.002	0.025	0.020	123
1,1-Dichloropropene	0.122	0.244	0.609	0.041	0.208	0.200	104
Carbon tetrachloride	0.106	0.213	0.531	0.035	0.203	0.200	101
Benzene	0.017	0.034	0.086	0.006	0.027	0.020	137
Trichloroethene	0.045	0.089	0.223	0.015	0.064	0.050	128
1,2-Dichloropropane	0.144	0.288	0.721	0.048	0.213	0.200	107
Bromodichloromethane	0.092	0.184	0.461	0.031	0.202	0.200	101
Dibromomethane	0.090	0.179	0.448	0.030	0.220	0.200	110
4-Methyl-2-pentanone	0.474	0.948	2.371	0.158	0.902	1.000	90
cis-1,3-Dichloropropene	0.095	0.191	0.477	0.032	0.190	0.200	95
Toluene	0.040	0.081	0.201	0.013	0.025	0.020	123
trans-1,3-Dichloropropene	0.123	0.247	0.617	0.041	0.202	0.200	101
1,1,2-Trichloroethane	0.087	0.175	0.437	0.029	0.224	0.200	112
2-Hexanone	2.216	4.433	11.082	0.739	12.030	10.000	120
1,3-Dichloropropane	0.083	0.166	0.416	0.028	0.213	0.200	106
Tetrachloroethene	0.077	0.154	0.385	0.026	0.065	0.050	129
Dibromochloromethane	0.130	0.259	0.648	0.043	0.212	0.200	106
1,2-Dibromoethane (EDB)	0.045	0.089	0.223	0.015	0.213	0.200	106
Chlorobenzene	0.052	0.104	0.259	0.017	0.224	0.200	112
Ethylbenzene	0.025	0.049	0.123	0.008	0.026	0.020	128
1,1,1,2-Tetrachloroethane	0.094	0.188	0.470	0.031	0.212	0.200	106
m,p-Xylene	0.048	0.096	0.241	0.016	0.053	0.040	132
o-Xylene	0.019	0.039	0.097	0.006	0.026	0.020	128
Styrene	0.071	0.142	0.354	0.024	0.203	0.200	101
Isopropylbenzene	0.071	0.141	0.353	0.024	0.196	0.200	98
Bromoform	0.125	0.251	0.627	0.042	0.202	0.200	101
n-Propylbenzene	0.094	0.189	0.472	0.031	0.219	0.200	110
Bromobenzene	0.076	0.153	0.382	0.025	0.233	0.200	116
1,3,5-Trimethylbenzene	0.080	0.160	0.399	0.027	0.192	0.200	96
1,1,1,2,2-Tetrachloroethane	0.095	0.191	0.477	0.032	0.218	0.200	109
1,2,3-Trichloropropane	0.068	0.136	0.340	0.023	0.253	0.200	126
2-Chlorotoluene	0.096	0.193	0.482	0.032	0.227	0.200	113
4-Chlorotoluene	0.082	0.164	0.409	0.027	0.219	0.200	109
tert-Butylbenzene	0.076	0.153	0.382	0.025	0.205	0.200	103
1,2,4-Trimethylbenzene	0.074	0.148	0.370	0.025	0.187	0.200	94
sec-Butylbenzene	0.090	0.180	0.449	0.030	0.195	0.200	98
p-Isopropyltoluene	0.081	0.161	0.404	0.027	0.199	0.200	100
1,3-Dichlorobenzene	0.099	0.197	0.493	0.033	0.224	0.200	112
1,4-Dichlorobenzene	0.088	0.176	0.440	0.029	0.238	0.200	119
1,2-Dichlorobenzene	0.094	0.189	0.472	0.032	0.219	0.200	110
1,2-Dibromo-3-chloropropane	0.595	1.190	2.974	0.198	4.792	5.000	96
1,2,4-Trichlorobenzene	0.134	0.269	0.672	0.045	0.219	0.200	110
Hexachlorobutadiene	0.158	0.315	0.788	0.053	0.227	0.200	113
Naphthalene	0.195	0.390	0.974	0.065	0.237	0.200	119
1,2,3-Trichlorobenzene	0.114	0.228	0.569	0.038	0.208	0.200	104

**Reported MDL Data and Calculations**

Analyst fill in all below (attach extraction worksheet(s))

Analysis: 8260 Standard(s) spiked: 63-4A, 63-4B, 63-4C, 63-26A, 63-26B, 63-26C  
 Matrix: Water Volume spiked: 4.3 uL (A), 8.6 uL (B), 17.2/43 uL (C)  
 Instrument ID: GCMS #13 Date(s) Extracted: 05/27/21, 05/28/21, 06/07/21, 06/08/21, 12/02/21, 12/08/21  
 Reporting Units: ug/L Date(s) Analyzed: 05/27/21, 05/28/21, 06/07/21, 06/08/21, 12/02/21, 12/08/21  
 Date Calculated: 06/01/21, 06/09/21, 12/07/21, 12/10/21, 4/6/2022, 04/11/22  
 Calculation Analyst: JCM, WE, AEN, AS

Analyte	(StdDev*2.998)	(2*MDL)	(5*MDL)	Std Dev	Mean	Spike Level	% Rec.
	MDL	PQL	PQL				
Ethanol							
Dichlorodifluoromethane	0.152	0.305	0.762	0.051	0.200	0.2	100
Chloromethane	1.096	2.191	5.478	0.365	5.441	5	109
Vinyl chloride	0.017	0.035	0.087	0.006	0.025	0.02	124
Bromomethane	1.853	3.707	9.267	0.618	6.097	5	122
Chloroethane	0.220	0.439	1.098	0.073	0.246	0.2	123
Trichlorofluoromethane	0.063	0.126	0.316	0.021	0.245	0.2	122
2-Propanol							
Acetone	4.490	8.980	22.450	1.498	12.426	10	124
1,1-Dichloroethene	0.015	0.031	0.077	0.005	0.056	0.05	112
Hexane	0.197	0.395	0.986	0.066	0.192	0.2	96
Methylene chloride	1.769	3.539	8.847	0.590	6.045	5	121
t-Butyl alcohol (TBA)	7.967	15.934	39.836	2.657	24.852	25	99
Methyl t-butyl ether (MTBE)	0.054	0.109	0.272	0.018	0.061	0.05	121
trans-1,2-Dichloroethene	0.021	0.043	0.106	0.007	0.058	0.05	116
Diisopropyl ether (DIPE)	0.039	0.078	0.195	0.013	0.201	0.2	100
1,1-Dichloroethane	0.013	0.026	0.066	0.004	0.054	0.05	108
Ethyl t-butyl ether (ETBE)	0.028	0.057	0.142	0.009	0.198	0.2	99
2,2-Dichloropropane	0.188	0.376	0.939	0.063	0.255	0.2	128
cis-1,2-Dichloroethene	0.015	0.029	0.073	0.005	0.057	0.05	114
Chloroform	0.049	0.099	0.246	0.016	0.215	0.2	107
2-Butanone (MEK)	1.862	3.723	9.308	0.621	10.875	10	109
t-Amyl methyl ether (TAME)	0.049	0.098	0.245	0.016	0.210	0.2	105
1,2-Dichloroethane (EDC)	0.097	0.194	0.485	0.032	0.229	0.2	114
1,1,1-Trichloroethane	0.012	0.025	0.062	0.004	0.054	0.05	109
1,1-Dichloropropene	0.060	0.120	0.299	0.020	0.199	0.2	100
Carbon tetrachloride	0.110	0.220	0.550	0.037	0.199	0.2	99
Benzene	0.018	0.036	0.089	0.006	0.025	0.02	124
Trichloroethene	0.032	0.064	0.159	0.011	0.059	0.05	117
1,2-Dichloropropane	0.133	0.266	0.666	0.044	0.218	0.2	109
Bromodichloromethane	0.061	0.121	0.303	0.020	0.215	0.2	108
Dibromomethane	0.043	0.087	0.216	0.014	0.229	0.2	114
4-Methyl-2-pentanone	1.975	3.951	9.877	0.659	25.044	25	100
cis-1,3-Dichloropropene	0.060	0.119	0.298	0.020	0.214	0.2	107
Toluene	0.018	0.035	0.088	0.006	0.060	0.05	119
trans-1,3-Dichloropropene	0.088	0.176	0.441	0.029	0.213	0.2	106
1,1,2-Trichloroethane	0.118	0.237	0.592	0.040	0.230	0.2	115
2-Hexanone	1.094	2.188	5.470	0.365	11.949	10	119
1,3-Dichloropropane	0.059	0.118	0.296	0.020	0.213	0.2	107
Tetrachloroethene	0.023	0.046	0.114	0.008	0.064	0.05	127
Dibromochloromethane	0.051	0.102	0.256	0.017	0.212	0.2	106
1,2-Dibromoethane (EDB)	0.022	0.043	0.108	0.007	0.059	0.05	118
Chlorobenzene	0.042	0.085	0.212	0.014	0.221	0.2	110
Ethylbenzene	0.016	0.033	0.082	0.005	0.028	0.02	141
1,1,1,2-Tetrachloroethane	0.065	0.130	0.324	0.022	0.217	0.2	108
m,p-Xylene	0.030	0.060	0.149	0.010	0.056	0.04	141
o-Xylene	0.011	0.022	0.054	0.004	0.026	0.02	132
Styrene	0.048	0.095	0.239	0.016	0.192	0.2	96
Isopropylbenzene	0.011	0.023	0.057	0.004	0.200	0.2	100
Bromoform	0.091	0.183	0.457	0.030	0.219	0.2	110
n-Propylbenzene	0.027	0.054	0.135	0.009	0.207	0.2	103
Bromobenzene	0.057	0.114	0.286	0.019	0.211	0.2	106
1,3,5-Trimethylbenzene	0.017	0.034	0.084	0.006	0.205	0.2	103
1,1,2,2-Tetrachloroethane	0.062	0.123	0.308	0.021	0.222	0.2	111
1,2,3-Trichloropropane	0.111	0.223	0.556	0.037	0.242	0.2	121
2-Chlorotoluene	0.039	0.078	0.194	0.013	0.210	0.2	105
4-Chlorotoluene	0.033	0.065	0.163	0.011	0.207	0.2	103
tert-Butylbenzene	0.021	0.042	0.106	0.007	0.201	0.2	100
1,2,4-Trimethylbenzene	0.039	0.079	0.197	0.013	0.204	0.2	102
sec-Butylbenzene	0.031	0.062	0.156	0.010	0.205	0.2	103
p-Isopropyltoluene	0.042	0.084	0.210	0.014	0.195	0.2	97
1,3-Dichlorobenzene	0.052	0.104	0.261	0.017	0.217	0.2	108
1,4-Dichlorobenzene	0.040	0.079	0.198	0.013	0.223	0.2	112
1,2-Dichlorobenzene	0.038	0.077	0.191	0.013	0.212	0.2	106
1,2-Dibromo-3-chloropropane	0.999	1.997	4.994	0.333	4.836	5	97
1,2,4-Trichlorobenzene	0.053	0.105	0.263	0.018	0.218	0.2	109
Hexachlorobutadiene	0.115	0.230	0.576	0.038	0.224	0.2	112
Naphthalene	0.111	0.222	0.555	0.037	0.227	0.2	113
1,2,3-Trichlorobenzene	0.036	0.071	0.178	0.012	0.225	0.2	113

**EPA 8260D**  
**Sequence Tables**

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-08-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

B 12/19

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	120801	VM080522	rinse
2)	Sample	100	120802	VM080522	rinse
3)	Sample	1	120803	VM080522	10 ppb 8260 CCV 67-150N
4)	Sample	2	120804	VM080522	02-2869 lcs
5)	Sample	3	120805	VM080522	02-2869 lcsd
6)	Sample	100	120806	VM080522	rinse
7)	Sample	4	120807	VM080522	02-2869 mb
8)	Sample	5	120808	VM080522	02-2867 mb 1/0.25
9)	Sample	6	120809	VM080522	02-2869 mb 1/200
10)	Sample	7	120810	VM080522	212004-01 1/200 12/19
11)	Sample	100	120811	VM080522	rinse
12)	Sample	8	120812	VM080522	212113-01 not in autosampler 12/19
13)	Sample	9	120813	VM080522	212083-01 removed +
14)	Sample	10	120814	VM080522	212104-01
15)	Sample	11	120815	VM080522	212104-02 put in fridge
16)	Sample	12	120816	VM080522	212104-03
17)	Sample	13	120817	VM080522	212104-04
18)	Sample	14	120818	VM080522	212104-05
19)	Sample	15	120819	VM080522	212104-01 ms
20)	Sample	100	120820	VM080522	rinse

## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-08-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120801.D rinse	VM080522.M	100	1.000	08 Dec 2022 05:27 am
2) 120802.D rinse	VM080522.M	100	1.000	08 Dec 2022 05:50 am
3) 120803.D 10 ppb 8260 CCV 67..	soil/water VM080522.M	1	1.000	08 Dec 2022 06:13 am
4) 120804.D 02-2859 lcs	water VM080522.M	2	1.000	08 Dec 2022 06:36 am
5) 120805.D 02-2859 lcsd	water VM080522.M	3	1.000	08 Dec 2022 06:59 am
6) 120806.D rinse	soil/water VM080522.M	100	1.000	08 Dec 2022 07:23 am
7) 120807.D 02-2859 mb	water VM080522.M	4	1.000	08 Dec 2022 07:46 am
8) 120808.D 02-2867 mb 1/0.25	soil VM080522.M	5	1.000	08 Dec 2022 08:09 am
9) 120809.D 02- <del>2869</del> mb 1/200	water VM080522.M	6	1.000	08 Dec 2022 09:57 am
10) 120810.D 212004-01	water VM080522.M	7	1.000	08 Dec 2022 10:20 am
11) 120811.D rinse	soil/water VM080522.M	100	1.000	08 Dec 2022 10:47 am
12) 120812.D 212113-01	water VM080522.M	8	1.000	08 Dec 2022 11:11 am
13) 120813.D 212083-01	water VM080522.M	9	1.000	08 Dec 2022 11:34 am
14) 120814.D 212104-01	water VM080522.M	10	1.000	08 Dec 2022 11:57 am
15) 120815.D 212104-02	water VM080522.M	11	1.000	08 Dec 2022 12:20 pm
16) 120816.D 212104-03	water VM080522.M	12	1.000	08 Dec 2022 12:44 pm
17) 120817.D 212104-04	water VM080522.M	13	1.000	08 Dec 2022 01:07 pm
18) 120818.D 212104-05	water VM080522.M	14	1.000	08 Dec 2022 01:31 pm
19) 120819.D 212104-01 ms	water VM080522.M	15	1.000	08 Dec 2022 01:54 pm
20) 120820.D rinse	water VM080522.M	100	1.000	08 Dec 2022 02:17 pm



## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-08-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120801.D rinse	VM080522.M	100	1.000	08 Dec 2022 05:27 am
2) 120802.D rinse	VM080522.M	100	1.000	08 Dec 2022 05:50 am
3) 120803.D 10 ppb 8260 CCV 67..	soil/water VM080522.M	1	1.000	08 Dec 2022 06:13 am
4) 120804.D 02-2869 lcs <i>2859</i>	water VM080522.M	2	1.000	08 Dec 2022 06:36 am
5) 120805.D 02-2869 <del>lcs</del> <i>2859</i>	water VM080522.M	3	1.000	08 Dec 2022 06:59 am
6) 120806.D rinse	soil/water VM080522.M	100	1.000	08 Dec 2022 07:23 am
7) 120807.D 02- <del>2869</del> mb <i>2859</i>	water VM080522.M	4	1.000	08 Dec 2022 07:46 am
8) 120808.D 02-2867 mb 1/0.25	soil VM080522.M	5	1.000	08 Dec 2022 08:09 am
9) 120809.D 02-2869 mb 1/200	water VM080522.M	6	1.000	08 Dec 2022 09:57 am
10) 120810.D 212004-01	water VM080522.M	7	1.000	08 Dec 2022 10:20 am
11) 120811.D rinse	soil/water VM080522.M	100	1.000	08 Dec 2022 10:47 am
12) 120812.D 212113-01	water VM080522.M	8	1.000	08 Dec 2022 11:11 am
13) 120813.D 212083-01	water VM080522.M	9	1.000	08 Dec 2022 11:34 am
14) 120814.D 212104-01	water VM080522.M	10	1.000	08 Dec 2022 11:57 am
15) 120815.D 212104-02	water VM080522.M	11	1.000	08 Dec 2022 12:20 pm
16) 120816.D 212104-03	water VM080522.M	12	1.000	08 Dec 2022 12:44 pm
17) 120817.D 212104-04	water VM080522.M	13	1.000	08 Dec 2022 01:07 pm
18) 120818.D 212104-05	water VM080522.M	14	1.000	08 Dec 2022 01:31 pm
19) 120819.D 212104-01 ms	water VM080522.M	15	1.000	08 Dec 2022 01:54 pm

Comment:

Operator: lm

Data Path: D:\GCMS13\GCMS13\_Data\12-09-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

*12/11 PM*

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

Line Type	ALS	File	Method	Sample Name/Misc Info
1) Sample	100	120901	VM080322	rinse
2) Sample	100	120902	VM080322	rinse
3) Sample	1	120903	VM080322	10 ppb 8260 CCV 67-97N
4) Sample	100	120904	VM080322	rinse
5) Sample	100	120905	VM080322	rinse
6) Sample	2	120906	VM080322	02-2856 mb rr
7) Sample	3	120907	VM080322	02-2859 mb2
8) Sample	4	120908	VM080322	212083-01 rr
9) Sample	5	120909	VM080322	212113-01 rr
10) Sample	6	120910	VM080322	212060-01 rr
11) Sample	7	120911	VM080322	212060-05 rr
12) Sample	8	120912	VM080322	212060-06 rr
13) Sample	9	120913	VM080322	212113-02
14) Sample	10	120914	VM080322	212113-03
15) Sample	11	120915	VM080322	212113-04 1/5
16) Sample	12	120916	VM080322	212113-05
17) Sample	13	120917	VM080322	<del>212098-02</del> 212083
18) Sample	14	120918	VM080322	<del>212098-03</del>
19) Sample	15	120919	VM080322	<del>212098-04</del>
20) Sample	16	120920	VM080322	<del>212098-05</del>
21) Sample	17	120921	VM080322	<del>212098-06</del>
22) Sample	18	120922	VM080322	<del>212098-07</del>
23) Sample	100	120923	VM080322	rinse

*12/11 PM*  
*212060-05 rr*  
*212060-06 rr*

*212083*  
*12/11 PM*  
*1/10*  
*1/10*  
*12/11*

## Injection Log

Data Directory: Y:\Proc\_GCMS13\12-09-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120901.D rinse	VM080322.M	100	1.000	09 Dec 2022 07:43 am
2) 120902.D rinse	VM080322.M	100	1.000	09 Dec 2022 08:06 am
3) 120903.D 10 ppb 8260 CCV 67.. soil/water	VM080322.M	1	1.000	09 Dec 2022 08:29 am
4) 120904.D rinse	VM080322.M	100	1.000	09 Dec 2022 10:06 am
5) 120905.D rinse	VM080322.M	100	1.000	09 Dec 2022 10:28 am
6) 120906.D 02-2856 mb rr	VM080322.M water	2	1.000	09 Dec 2022 10:52 am
7) 120907.D 02-2859 mb2	VM080322.M water	3	1.000	09 Dec 2022 11:15 am
8) 120908.D 212083-01 rr	VM080322.M water	4	1.000	09 Dec 2022 11:38 am
9) 120909.D 212113-01 rr	VM080322.M water	5	1.000	09 Dec 2022 12:02 pm
10) 120910.D 212059-01 rr	VM080322.M water	6	1.000	09 Dec 2022 12:25 pm
11) 120911.D 212059-05 rr	VM080322.M water	7	1.000	09 Dec 2022 12:48 pm
12) 120912.D 212059-06 rr	VM080322.M water	8	1.000	09 Dec 2022 01:11 pm
13) 120913.D 212113-02	VM080322.M water	9	1.000	09 Dec 2022 01:35 pm
14) 120914.D 212113-03	VM080322.M water	10	1.000	09 Dec 2022 01:58 pm
15) 120915.D 212113-04 1/5	VM080322.M water	11	1.000	09 Dec 2022 02:21 pm
16) 120916.D 212113-05	VM080322.M water	12	1.000	09 Dec 2022 02:44 pm
17) 120917.D 212083-02	VM080322.M water	13	1.000	09 Dec 2022 03:07 pm
18) 120918.D 212083-03	VM080322.M water	14	1.000	09 Dec 2022 03:30 pm
19) 120919.D 212083-04 1/10	VM080322.M water	15	1.000	09 Dec 2022 03:54 pm
20) 120920.D 212083-05 1/10	VM080322.M water	16	1.000	09 Dec 2022 04:17 pm
21) 120921.D	VM080322.M			

212083-06	water		17	1.000	09 Dec 2022	04:40 pm
-----						
22) 120922.D		VM080322.M				
212083-07	water		18	1.000	09 Dec 2022	05:03 pm
-----						
23) 120923.D		VM080322.M				
rinse	water		100	1.000	09 Dec 2022	05:26 pm
-----						

Sequence Name: D:\GCMS11\sequence\12-14-22.sequence.xml

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-14-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

B12/15

Method Sections To Run	Sequence Barcode Options
(X) Full Method	( ) On Mismatch, Inject Anyway
( ) Reprocessing Only	( ) On Mismatch, Don't Inject
	(X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	121401	VM080522	rinse
2)	Sample	100	121402	VM080522	rinse
3)	Sample	1	121403	VM080522	10 ppb 8260 CCV 67-150N
4)	Sample	2	121404	VM080522	02-2959 lcs
5)	Sample	3	121405	VM080522	02-2959 lcsd
6)	Sample	100	121406	VM080522	rinse
7)	Sample	4	121407	VM080522	02-2959 mb
8)	Sample	5	121408	VM080522	02-2957 mb 1/0.25
9)	Sample	6	121409	VM080522	212213-01
10)	Sample	7	121410	VM080522	212213-02
11)	Sample	8	121411	VM080522	212213-03
12)	Sample	9	121412	VM080522	212213-04
13)	Sample	10	121413	VM080522	212213-05
14)	Sample	19	121414	VM080522	212083-04 rr 1/10
15)	Sample	20	121415	VM080522	212083-05 rr 1/10
16)	Sample	21	121416	VM080522	212083-06 rr
17)	Sample	22	121417	VM080522	212083-07 rr
18)	Sample	23	121418	VM080522	212113-04 rr
19)	Sample	24	121419	VM080522	212113-05 rr
20)	Sample	100	121420	VM080522	rinse
21)	Sample	25	121421	VM080522	212212-01
22)	Sample	11	121422	VM080522	212131-01
23)	Sample	12	121423	VM080522	212131-02
24)	Sample	13	121424	VM080522	212131-03
25)	Sample	14	121425	VM080522	212131-05
26)	Sample	15	121426	VM080522	212131-06
27)	Sample	16	121427	VM080522	212131-07
28)	Sample	17	121428	VM080522	212131-04
29)	Sample	18	121429	VM080522	212213-01 ms
30)	Sample	100	121430	VM080522	rinse
31)	Sample	26	121431	VM080522	10 ppb 8260 CCV 68-25N
32)	Sample	27	121432	VM080522	10 ppb 8260 CCV 68-25N
33)	Sample	100	121433	VM080522	rinse
34)	Sample	28	121434	VM080522	02-2961 lcs
35)	Sample	29	121435	VM080522	02-2961 lcsd
36)	Sample	100	121436	VM080522	rinse
37)	Sample	30	121437	VM080522	02-2961 mb
38)	Sample	31	121438	VM080522	212108-02
39)	Sample	32	121439	VM080522	212147-02
40)	Sample	33	121440	VM080522	212146-06
41)	Sample	34	121441	VM080522	212108-01

Sequence Name: D:\GCMS11\sequence\12-14-22.sequence.xml

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-14-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

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42)	Sample	35	121442	VM080522	212108-03	
43)	Sample	36	121443	VM080522	212108-05	
44)	Sample	37	121444	VM080522	212108-06	
45)	Sample	38	121445	VM080522	212108-07	
46)	Sample	39	121446	VM080522	212147-01	
47)	Sample	40	121447	VM080522	212147-03	
48)	Sample	41	121448	VM080522	212147-04	
49)	Sample	42	121449	VM080522	212147-05	
50)	Sample	43	121450	VM080522	212147-08	
51)	Sample	44	121451	VM080522	212147-07	
52)	Sample	45	121452	VM080522	212108-04	
53)	Sample	46	121453	VM080522	212108-01	ms
54)	Sample	47	121454	VM080522	212108-01	msd
55)	Sample	48	121455	VM080522	212147-07	ms
56)	Sample	49	121456	VM080522	212147-07	msd
57)	Sample	100	121457	VM080522	rinse	
58)	Sample	100	121458	VM080522	rinse	

## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-14-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 121401.D rinse	VM080522.M	100	1.000	14 Dec 2022 04:59 am
2) 121402.D rinse	VM080522.M	100	1.000	14 Dec 2022 05:21 am
3) 121403.D 10 ppb 8260 CCV 67.. soil/water	VM080522.M	1	1.000	14 Dec 2022 05:44 am
4) 121404.D 02-2959 lcs	VM080522.M water	2	1.000	14 Dec 2022 06:06 am
5) 121405.D 02-2959 lcsd	VM080522.M water	3	1.000	14 Dec 2022 06:28 am
6) 121406.D rinse	VM080522.M soil/water	100	1.000	14 Dec 2022 06:51 am
7) 121407.D 02-2959 mb	VM080522.M water	4	1.000	14 Dec 2022 07:13 am
8) 121408.D 02-2957 mb 1/0.25	VM080522.M soil	5	1.000	14 Dec 2022 07:35 am
9) 121409.D 212213-01	VM080522.M water	6	1.000	14 Dec 2022 08:00 am
10) 121410.D 212213-02	VM080522.M water	7	1.000	14 Dec 2022 08:22 am
11) 121411.D 212213-03	VM080522.M water	8	1.000	14 Dec 2022 08:45 am
12) 121412.D 212213-04	VM080522.M water	9	1.000	14 Dec 2022 09:07 am
13) 121413.D 212213-05	VM080522.M water	10	1.000	14 Dec 2022 09:29 am
14) 121414.D 212083-04 rr 1/10	VM080522.M water	19	1.000	14 Dec 2022 09:52 am
15) 121415.D 212083-05 rr 1/10	VM080522.M water	20	1.000	14 Dec 2022 10:14 am
16) 121416.D 212083-06 rr	VM080522.M water	21	1.000	14 Dec 2022 10:37 am
17) 121417.D 212083-07 rr	VM080522.M water	22	1.000	14 Dec 2022 10:59 am
18) 121418.D 212113-04 rr	VM080522.M water	23	1.000	14 Dec 2022 11:21 am
19) 121419.D 212113-05 rr	VM080522.M water	24	1.000	14 Dec 2022 11:44 am
20) 121420.D rinse	VM080522.M water	100	1.000	14 Dec 2022 12:06 pm
21) 121421.D	VM080522.M			

212212-01	water	VM080522.M	25	1.000	14 Dec 2022	12:28 pm
22) 121422.D		VM080522.M				
212131-01	water		11	1.000	14 Dec 2022	12:51 pm
23) 121423.D		VM080522.M				
212131-02	water		12	1.000	14 Dec 2022	01:13 pm
24) 121424.D		VM080522.M				
212131-03	water		13	1.000	14 Dec 2022	01:36 pm
25) 121425.D		VM080522.M				
212131-05	water		14	1.000	14 Dec 2022	01:58 pm
26) 121426.D		VM080522.M				
212131-06	water		15	1.000	14 Dec 2022	02:20 pm
27) 121427.D		VM080522.M				
212131-07	water		16	1.000	14 Dec 2022	02:43 pm
28) 121428.D		VM080522.M				
212131-04	water		17	1.000	14 Dec 2022	03:05 pm
29) 121429.D		VM080522.M				
212213-01 ms	water		18	1.000	14 Dec 2022	03:28 pm
30) 121430.D		VM080522.M				
rinse	water		100	1.000	14 Dec 2022	03:50 pm
31) 121431.D		VM080522.M				
10 ppb 8260 CCV 68..	soil/water		26	1.000	14 Dec 2022	04:28 pm
32) 121432.D		VM080522.M				
10 ppb 8260 CCV 68..	soil/water		27	1.000	14 Dec 2022	05:07 pm
33) 121433.D		VM080522.M				
rinse			100	1.000	14 Dec 2022	06:02 pm
34) 121434.D		VM080522.M				
02-2961 lcs	water		28	1.000	14 Dec 2022	06:24 pm
35) 121435.D		VM080522.M				
02-2961 lcsd	water		29	1.000	14 Dec 2022	06:47 pm
36) 121436.D		VM080522.M				
rinse	water		100	1.000	14 Dec 2022	07:09 pm
37) 121437.D		VM080522.M				
02-2961 mb	water		30	1.000	14 Dec 2022	07:31 pm
38) 121438.D		VM080522.M				
212108-02	water		31	1.000	14 Dec 2022	07:54 pm
39) 121439.D		VM080522.M				
212147-02	water		32	1.000	14 Dec 2022	08:16 pm
40) 121440.D		VM080522.M				
212146-06	water		33	1.000	14 Dec 2022	08:38 pm
41) 121441.D		VM080522.M				
212108-01	water		34	1.000	14 Dec 2022	09:01 pm
42) 121442.D		VM080522.M				
212108-03	water		35	1.000	14 Dec 2022	09:23 pm
43) 121443.D		VM080522.M				
212108-05	water		36	1.000	14 Dec 2022	09:46 pm

*bnd*  
*sp. lcs*



44) 121444.D		VM080522.M				
212108-06	water		37	1.000	14 Dec 2022	10:08 pm
-----						
45) 121445.D		VM080522.M				
212108-07	water		38	1.000	14 Dec 2022	10:31 pm
-----						
46) 121446.D		VM080522.M				
212147-01	water		39	1.000	14 Dec 2022	10:53 pm
-----						
47) 121447.D		VM080522.M				
212147-03	water		40	1.000	14 Dec 2022	11:16 pm
-----						
48) 121448.D		VM080522.M				
212147-04	water		41	1.000	14 Dec 2022	11:38 pm
-----						
49) 121449.D		VM080522.M				
212147-05	water		42	1.000	15 Dec 2022	12:01 am
-----						
50) 121450.D		VM080522.M				
212147-08	water		43	1.000	15 Dec 2022	12:23 am
-----						
51) 121451.D		VM080522.M				
212147-07	water		44	1.000	15 Dec 2022	12:45 am
-----						
52) 121452.D		VM080522.M				
212108-04	water		45	1.000	15 Dec 2022	01:08 am
-----						
53) 121453.D		VM080522.M				
212108-01 ms	water		46	1.000	15 Dec 2022	01:30 am
-----						
54) 121454.D		VM080522.M				
212108-01 msd	water		47	1.000	15 Dec 2022	01:53 am
-----						
55) 121455.D		VM080522.M				
212147-07 ms	water		48	1.000	15 Dec 2022	02:15 am
-----						
56) 121456.D		VM080522.M				
212147-07 msd	water		49	1.000	15 Dec 2022	02:37 am
-----						
57) 121457.D		VM080522.M				
rinse	water		100	1.000	15 Dec 2022	02:59 am
-----						
58) 121458.D		VM080522.M				
rinse	water		100	1.000	15 Dec 2022	03:21 am
-----						

# EPA 8260D

## Checklists

# GC/MS ICAL Checklist

Instrument: GC/MS 13

Sequence Date: 11-30-22

Shift # 2

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	✓ LM	12/1
2 <sup>nd</sup> source passed	✓	
Analyte retention time checked	✓	
Tune passed	✓	
Non-Conformance Report filled out (if needed)	NA	

Notes: 0.04 ppb deleted (PREP ERROR)  
by JLM

Attach this sheet to raw data package.

12/1/22 JLM  
 Supervisor Initials and Date

# GC/MS ICAL Checklist

Instrument: GC/MS 11

Sequence Date: 12.02.22

Shift # 1

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	✓	12/5
2 <sup>nd</sup> source passed	✓	
Analyte retention time checked	✓	
Tune passed	✓	
Non-Conformance Report filled out (if needed)	NA	

Notes: U.04 deleted spike error

Attach this sheet to raw data package.

YA 12/07/22  
Supervisor Initials and Date

# GC/MS ICAL Checklist

Instrument: GC/MS 11

Sequence Date: 12/12/22

Shift # 2

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	[Signature]	12/15/22
2 <sup>nd</sup> source passed	↓	↓
Analyte retention time checked	↓	↓
Tune passed	↓	↓
Non-Conformance Report filled out (if needed)	↓	↓

Notes: H<sub>2</sub>O ONLY

Attach this sheet to raw data package.

YA 12/15/22  
Supervisor Initials and Date

## GC/MS Data Daily Checklist

Instrument: GC/MS 13

Sequence Date: 12.9.22

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓	12/12
Internal Standards within limits (50-200% of the CCVs for 8260, 8270; 70-130% for 524.2)	✓	
Surrogate recoveries within limits	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Matrix spike (MS) analyzed	N/A	
RPDs within limits	✓	
Continuing Calibration Analyzed, Evaluated and Passed	✓	
Non-Conformance Report filled out (if needed)	✓	

Notes: for PCE + daughters only (VC higher)

Attach this sheet to raw data package.

YA 12/12/22  
Supervisor Initials and Date

## GC/MS Data Daily Checklist

Instrument: GC/MS 11

Sequence Date: 12.8

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓ L	12/8
Internal Standards within limits (50-200% of the CCVs for 8260, 8270; 70-130% for 524.2)	✓	
Surrogate recoveries within limits	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Matrix spike (MS) analyzed	✓	
RPDs within limits	✓	
Continuing Calibration Analyzed, Evaluated and Passed	all in	
Non-Conformance Report filled out (if needed)		

Notes: \_\_\_\_\_

Attach this sheet to raw data package.

YA 12/09/22  
Supervisor Initials and Date

## GC/MS Data Daily Checklist

Instrument: GC/MS 11

Sequence Date: 12/14/22

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓	m 12/15
Internal Standards within limits (50-200% of the CCVs for 8260, 8270; 70-130% for 524.2)	✓	
Surrogate recoveries within limits	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Matrix spike (MS) analyzed	✓	
RPDs within limits	✓	
Continuing Calibration Analyzed, Evaluated and Passed	all in	
Non-Conformance Report filled out (if needed)		

Notes: \_\_\_\_\_

Attach this sheet to raw data package.

YA 12/15/22  
Supervisor Initials and Date



**EPA 8260D**  
**Internal Standard/Surrogate Summaries**

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS13\11-30-22\113023.D

Tune Time : 30 Nov 2022 07:39 pm

Daily Calibration File : Y:\Proc\_GCMS13\11-30-22\113038.D

(DMF) (DHL) (TOL) (BFB)

115315 105054 65344

File	Sample	Surrogate	Recovery %	Internal Standard Responses		
113030.D	0.02 ppb 8	95 104	96 102	136255	113476	70996
113032.D	0.1 ppb 82	98 93	93 103	137091	110964	69191
113033.D	0.2 ppb 82	99 98	97 102	135773	114155	70028
113034.D	0.5 ppb 82	106 107	105 104	123466	111984	68714
113035.D	1 ppb 8260	100 97	95 101	132290	109564	67837
113036.D	2 ppb 8260	97 102	94 101	133517	109857	67912
113037.D	5 ppb 8260	96 98	99 97	129854	107689	65984
113038.D	10 ppb 826	104 103	106 100	115315	105054	65344
113039.D	20 ppb 826	105 104	106 100	113852	103353	63199
113040.D	50 ppb 826	109 107	104 97	111462	99189	62528
113041.D	100 ppb 82	98 92	103 98	119165	103163	63316
113042.D	150 ppb 82	96 93	99 98	117219	99384	63257
113043.D	200 ppb 82	96 102	102 97	117120	100115	62157
113045.D	10 ppb 826	99 93	95 100	124698	103846	61463

(fails) - fails 12hr time check \* - fails criteria

Created: Thu Dec 01 12:46:22 2022 GCMS13

GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS11\12-02-22\120207.D

Tune Time : 02 Dec 2022 06:48 pm

Daily Calibration File : Y:\Proc\_GCMS11\12-02-22\120221.D

(DMF) (DHL) (TOL) (BFB)

43527 35359 19116

File	Sample	Surrogate	Recovery %	Internal	Standard	Responses
120213.D	0.02 ppb 8	97	101 100 101	44408	35154	19419
120214.D	0.04 ppb 8	96	102 96 103	45916	36147	19646
120215.D	0.1 ppb 82	102	99 99 100	45253	34919	19347
120216.D	0.2 ppb 82	103	104 102 96	44274	35020	19757
120217.D	0.5 ppb 82	98	93 96 100	45613	35739	19562
120218.D	1 ppb 8260	101	106 99 101	44408	35243	19491
120219.D	2 ppb 8260	99	92 97 100	44600	35263	18806
120220.D	5 ppb 8260	100	99 97 102	45348	35641	19209
120221.D	10 ppb 826	99	101 103 99	43527	35359	19116
120222.D	20 ppb 826	101	101 101 99	43532	34868	19084
120223.D	50 ppb 826	99	105 102 97	42665	34502	18362
120224.D	100 ppb 82	104	95 104 102	41010	33336	17982
120225.D	150 ppb 82	98	100 104 102	42305	33999	18471
120226.D	200 ppb 82	102	102 100 97	41734	34467	18923
120228.D	10 ppb 826	98	95 98 98	44988	35045	19156

(fails) - fails 12hr time check \* - fails criteria

Created: Mon Dec 05 13:48:39 2022 GCMS11

GC/MS QA-QC Check Report

Tune File : D:\Proc\_GCMS11\12-12-22\121223.D

Tune Time : 12 Dec 2022 08:09 pm

Daily Calibration File : D:\Proc\_GCMS11\12-12-22\121236.D

(DMF) (DHL) (TOL) (BFB)

47211 36478 20261

File	Sample	Surrogate	Recovery %				Internal Standard Responses		
121228.D	0.02 ppb	8	103	92	101	96	49049	38410	21826
121229.D	0.04 ppb	8	107	103	102	100	48253	38658	21365
121230.D	0.1 ppb	82	97	102	103	97	49730	39074	21750
121231.D	0.2 ppb	82	99	103	98	99	48767	38819	21245
121232.D	0.5 ppb	82	98	96	101	101	48353	38043	21492
121233.D	1 ppb	8260	98	91	100	99	48931	38342	20582
121234.D	2 ppb	8260	97	100	99	100	48822	38734	21530
121235.D	5 ppb	8260	98	99	98	97	48803	37344	21151
121236.D	10 ppb	826	101	106	98	101	47211	36478	20261
121237.D	20 ppb	826	101	103	99	101	46537	36436	19498
121238.D	50 ppb	826	99	100	103	97	46625	37972	20328
121239.D	100 ppb	82	103	101	99	100	46224	36627	19904
121240.D	150 ppb	82	99	99	100	106	46540	36065	19550
121241.D	200 ppb	82	102	103	100	104	45831	37397	20078
121243.D	10 ppb	826	95	92	96	102	49036	37606	20495

(fails) - fails 12hr time check \* - fails criteria

Created: Thu Dec 15 12:03:39 2022 GCMS11

GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS11\12-08-22\120803.D

Tune Time : 08 Dec 2022 06:13 am

Daily Calibration File : Y:\Proc\_GCMS11\12-08-22\120803.D

(DMF) (DHL) (TOL) (BFB)

43966 35885 19188

File Sample Surrogate Recovery % Internal Standard Responses

120804.D 02-2859 lc 101 99 100 100 43747 35166 19160

120805.D 02-2859 lc 102 103 103 98 43321 34795 18678

120807.D 02-2859 mb 105 101 102 103 44374 35325 18697

No Quant Results for Y:\Proc\_GCMS11\12-08-22\120808.D

120809.D 02-2869 mb 104 97 97 94 43506 33648 19801

120810.D 212004-01 97 100 97 97 45522 36455 19915

120812.D 212113-01 97 98 99 104 45992 35932 19064

120813.D 212083-01 97 97 100 105 46232 36218 19122

120814.D 212104-01 99 102 99 104 45203 36073 18831

120815.D 212104-02 98 101 101 98 44964 35785 19176

120816.D 212104-03 101 91 98 102 45721 35727 19501

120817.D 212104-04 101 98 98 101 45795 35508 19427

120818.D 212104-05 99 98 97 102 45922 36521 19526

120819.D 212104-01 96 103 100 102 45368 35829 18339

(fails) - fails 12hr time check \* - fails criteria

Created: Fri Dec 09 08:52:37 2022 GCMS11

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS13\12-09-22\120903.D

Tune Time : 09 Dec 2022 08:29 am

Daily Calibration File : Y:\Proc\_GCMS13\12-09-22\120903.D

(DMF) (DHL) (TOL) (BFB)

97279 70618 36798

File	Sample	Surrogate Recovery %				Internal Standard Responses		
120906.D	02-2856 mb	79	90	92	130	109440	72778	37964
120907.D	02-2859 mb	79	85	94	130	107629	70337	37467
120908.D	212083-01	80	90	92	130	107181	71880	37266
120909.D	212113-01	81	88	94	125	107587	72159	37986
120910.D	212059-01	80	88	93	129	108365	69593	36832
120911.D	212059-05	86	92	104	125	99243	71071	37956
120912.D	212059-06	77	88	91	128	109014	70832	38400
120913.D	212113-02	90	101	104	128	97334	70171	37376
120914.D	212113-03	81	88	94	128	105953	69487	37088
120915.D	212113-04	86	92	104	131	91818	67123	35354
120916.D	212113-05	88	96	102	129	96292	68414	36754
120917.D	212083-02	86	90	101	134	96012	68798	36325
120918.D	212083-03	80	93	96	128	104546	67297	35476
120919.D	212083-04	89	97	106	128	90201	66992	35635
120920.D	212083-05	88	104	103	130	89660	66239	35202
120921.D	212083-06	85	98	121	124	89733	65940	35920
120922.D	212083-07	84	93	126	126	91550	65422	34705

(fails) - fails 12hr time check \* - fails criteria

Created: Tue Dec 13 11:25:27 2022 GCMS13

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS11\12-14-22\121403.D

Tune Time : 14 Dec 2022 05:44 am

Daily Calibration File : Y:\Proc\_GCMS11\12-14-22\121403.D

(DMF) (DHL) (TOL) (BFB)

47985 37060 19799

File	Sample	Surrogate Recovery %				Internal Standard Responses		
121404.D	02-2959 1c	105	98	99	102	47338	36588	20144
121405.D	02-2959 1c	103	100	100	96	47398	37087	20348
121407.D	02-2959 mb	98	93	96	102	49871	36592	18780
121409.D	212213-01	98	92	101	102	49596	38135	20978
121410.D	212213-02	101	96	100	102	49107	38163	21022
121411.D	212213-03	99	96	98	99	49887	39602	21807
121412.D	212213-04	103	93	99	99	48486	38389	21425
121413.D	212213-05	100	94	99	100	49657	38327	21278
121414.D	212083-04	101	92	99	99	49593	37940	20634
121415.D	212083-05	99	94	97	99	48671	38195	21381
121416.D	212083-06	102	99	104	96	47485	37202	20780
121417.D	212083-07	102	94	103	99	46669	36732	19875
121418.D	212113-04	100	98	99	99	47239	37214	21216
121419.D	212113-05	101	102	98	101	48303	37405	20524
121421.D	212212-01	104	101	103	101	48608	39502	21528
121422.D	212131-01	97	95	99	100	49315	37695	21167
121423.D	212131-02	102	96	99	102	49238	38164	21036
121424.D	212131-03	99	94	98	100	49887	38162	21399
121425.D	212131-05	94	104	95	96	50746	38230	22057

-----  
121426.D  
212131-06 104 97 102 94 49213 38740 21953  
-----

121427.D  
212131-07 101 97 98 100 49644 38711 21300  
-----

121428.D  
212131-04 107 105 100 92 47829 38105 21764  
-----

121429.D  
212213-01 101 94 100 104 48569 37319 19679  
-----

(fails) - fails 12hr time check \* - fails criteria

Created: Thu Dec 15 07:55:58 2022 GCMS11

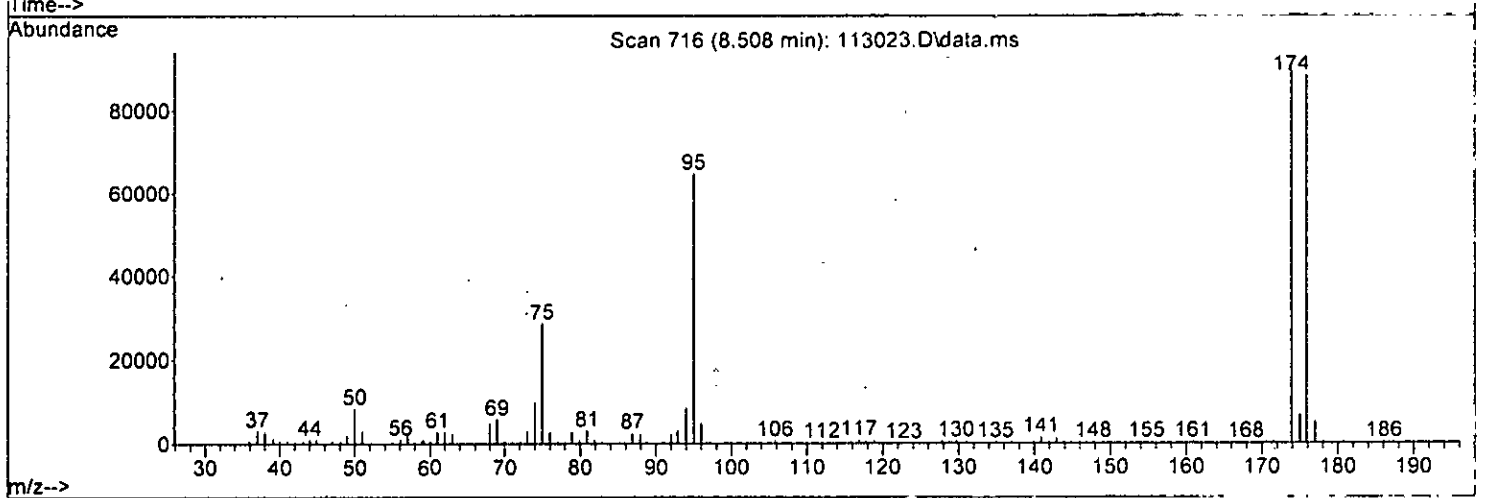
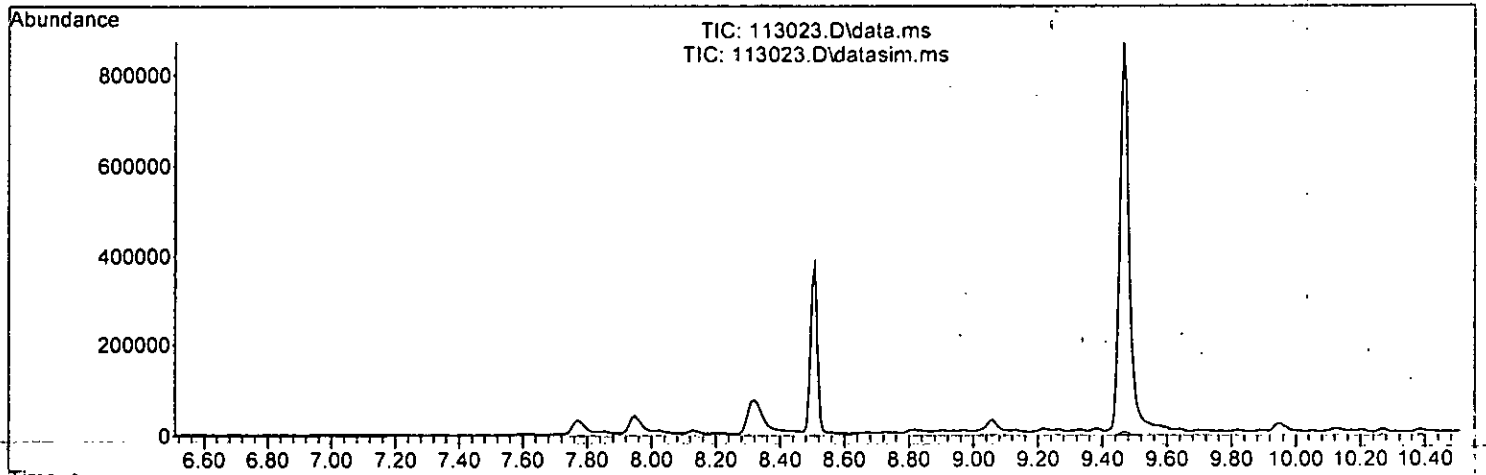


**EPA 8260D**  
**Tune Summaries**

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113023.D  
 Acq On : 30 Nov 2022 07:39 pm  
 Operator : LM  
 Sample : 50 ng BFB 67-156A  
 Misc : direct inject  
 ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: LSCINT.P  
 Integration File signal 2: rteint2.p

Method : Y:\Methods\Inst13\VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:14:23 2022



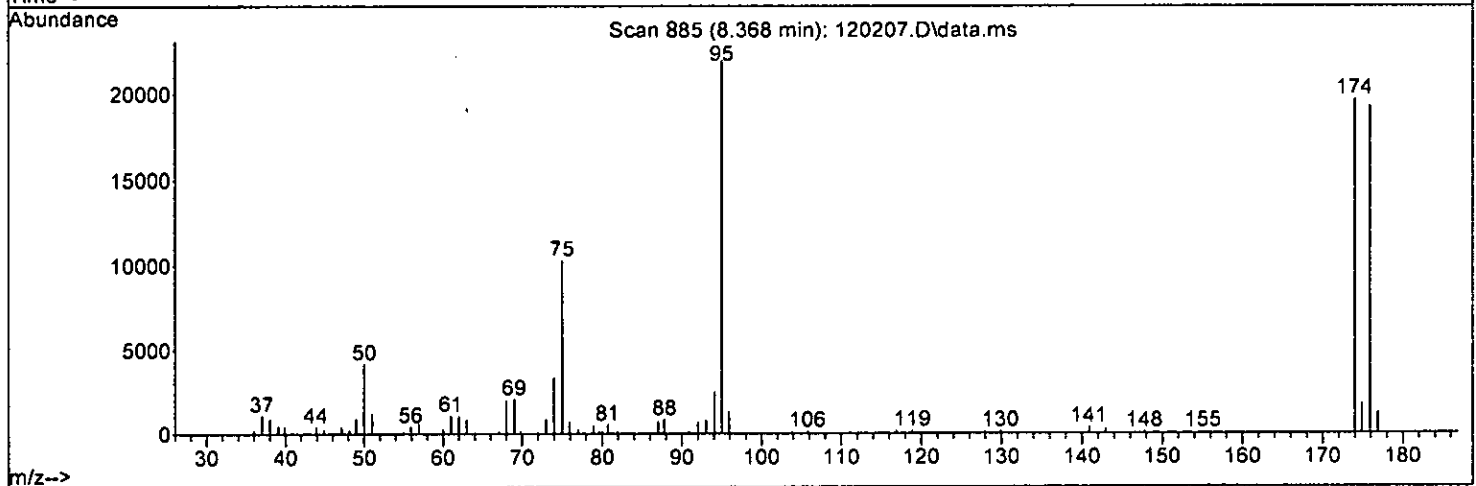
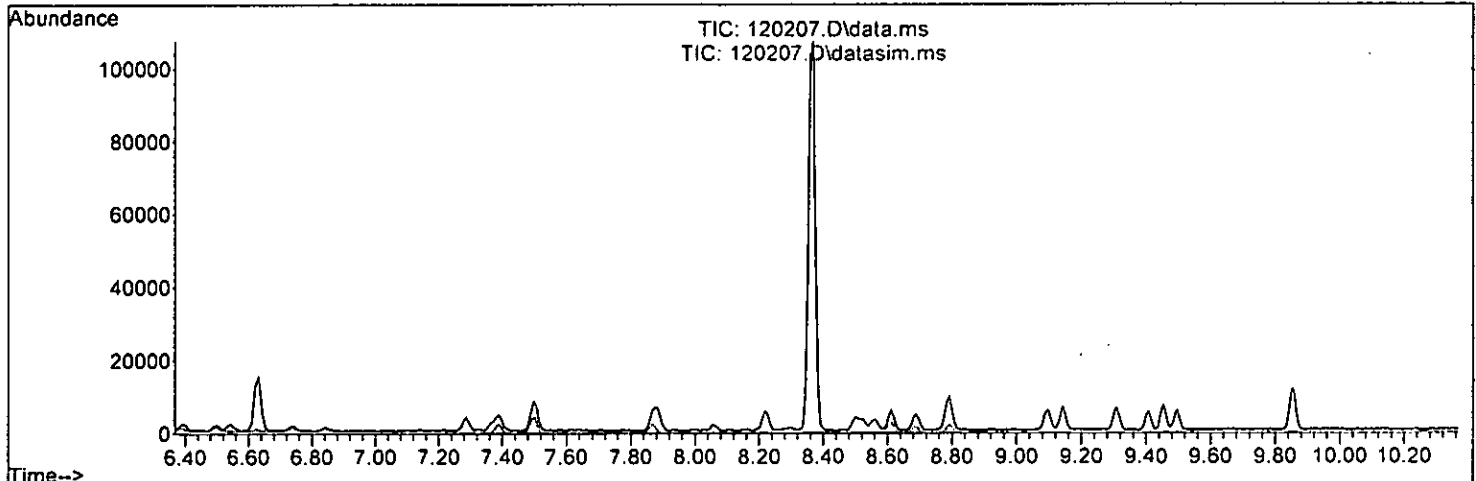
AutoFind: Scan 716 (Apex of m/z 95.0)

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	72.2	64672	PASS
96	95	5	9	7.2	4660	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	138.4	89520	PASS
175	174	5	9	7.5	6716	PASS
176	174	95	105	98.6	88256	PASS
177	176	5	10	5.8	5079	PASS

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120207.D  
 Acq On : 02 Dec 2022 06:48 pm  
 Operator : LM  
 Sample : 50 ng BFB 67-156A  
 Misc : direct inject  
 ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: LSCINT.P  
 Integration File signal 2: rteint2.p

Method : Y:\Methods\Inst11\VB120222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022



AutoFind: Scan 885 (Apex of m/z 95.0)

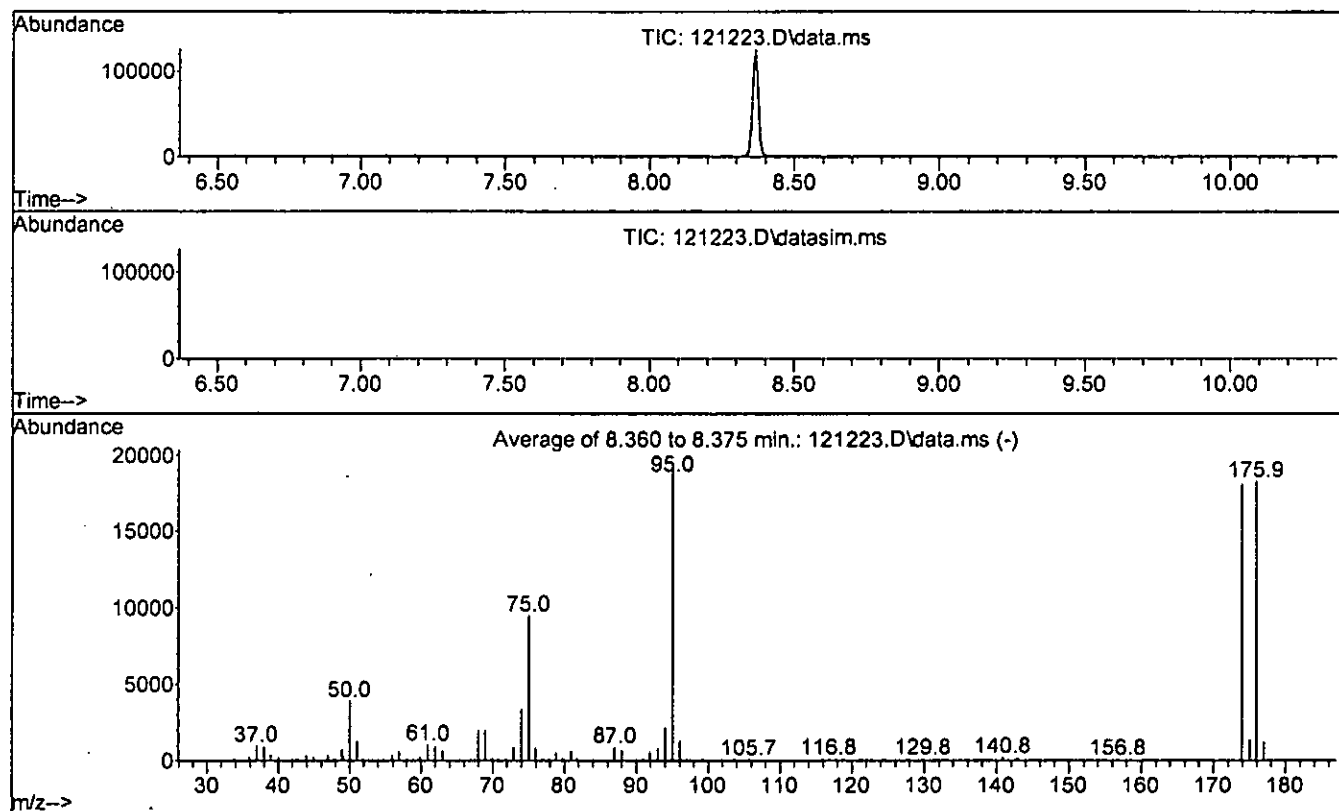
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	111.8	22008	PASS
96	95	5	9	5.8	1276	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	89.4	19680	PASS
175	174	5	9	8.7	1718	PASS
176	174	95	105	98.0	19280	PASS
177	176	5	10	6.2	1200	PASS

BFB

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121223.D  
Acq On : 12 Dec 2022 08:09 pm  
Operator : LM  
Sample : 50 ng BFB 67-152A  
Misc : direct inject  
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: LSCINT.P  
Integration File signal 2: rteint2.p

Method : D:\Methods\Inst11\VB121222ms11.M  
Title : 8260 Purge & Trap Volatiles Dual Acquisition  
Last Update : Tue Dec 13 13:28:26 2022



AutoFind: Scans 884, 885, 886; Background Corrected with Scan 878

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	107.0	19289	PASS
96	95	5	9	6.6	1269	PASS
173	174	0.00	2	0.4	80	PASS
174	95	50	200	93.5	18031	PASS
175	174	5	9	7.5	1347	PASS
176	174	95	105	101.0	18217	PASS
177	176	5	10	6.6	1201	PASS

**EPA 8260D**  
**Initial Calibrations**

Method Path : Y:\Methods\Inst13\  
 Method File : VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:14:23 2022  
 Response Via : Initial Calibration

Calibration Files  
 0.02-113030.D 0.1 =113032.D 0.2 =113033.D 0.5 =113034.D 1 =113035.D 2 =113036.D 5 =113037.D 10 =113038.D 20 =113039.D 50 =113040.D  
 100 =113041.D 150 =113042.D 200 =113043.D

Compound	0.02	0.1	0.2	0.5	1	2	5	10	20	50	100	150	200	Avg	%RSD	
1) I Fluorobenzene															0.000#	-1.00
2) TMP Ethanol																
3) S Dibromofluorom...	0.306	0.313	0.316	0.337	0.318	0.310	0.304	0.332	0.336	0.346	0.312	0.307	0.305	0.319	4.44	
4) TMP Dichlorodifluo...			0.599	0.660	0.529	0.549	0.524	0.603	0.597	0.624	0.582	0.598	0.544	0.582	7.25	
5) TMP Chloromethane					0.405	0.429	0.357	0.401	0.373	0.401	0.380	0.380	0.348	0.386	6.61	
6) TMP Vinyl chloride	0.334	0.342	0.338	0.367	0.341	0.369	0.357	0.434	0.407	0.422	0.391	0.391	0.358	0.373	8.90	
7) TMP Bromomethane						0.349	0.430	0.435	0.420	0.394	0.366	0.357	0.331	0.385	10.39	
8) TMP Chloroethane					0.213	0.196	0.191	0.182	0.219	0.207	0.214	0.199	0.196	0.181	6.59	
9) TMP Trichlorofluor...						0.968	0.999	0.915	1.070	1.076	1.102	1.035	0.947	1.015	6.21	
10) TMP 2-Propanol															0.000	-1.00
11) TMP Acetone					0.023	0.022	0.019	0.023	0.023	0.024	0.024	0.021	0.018	0.022	9.68	
12) TMP 1,1-Dichloroet...	0.283	0.227	0.236	0.260	0.241	0.238	0.225	0.271	0.263	0.267	0.241	0.243	0.226	0.248	7.60	
13) TMP Hexane					0.269	0.250	0.214	0.249	0.229	0.238	0.229	0.226	0.225	0.236	7.10	
14) TMP Methylene chlo...						0.339	0.257	0.257	0.237	0.240	0.222	0.218	0.206	0.247	16.76	
15) TMP t-Butyl alcoho...					0.027	0.023	0.020	0.023	0.023	0.023	0.021	0.021	0.020	0.022#	9.39	
16) TMP Methyl t-butyl...	0.602	0.542	0.608	0.647	0.597	0.599	0.578	0.650	0.623	0.636	0.576	0.566	0.520	0.596	6.58	
17) TMP trans-1,2-Dich...	0.290	0.254	0.288	0.295	0.279	0.269	0.254	0.296	0.282	0.290	0.261	0.263	0.246	0.274	6.40	
18) TMP Diisopropyl et...					0.555	0.540	0.520	0.506	0.486	0.611	0.571	0.535	0.540	0.521	6.97	
19) TMP 1,1-Dichloroet...	0.323	0.309	0.341	0.369	0.348	0.344	0.323	0.385	0.361	0.366	0.329	0.327	0.303	0.341	7.20	
20) TMP Ethyl t-butyl ...			0.293	0.296	0.283	0.282	0.278	0.303	0.293	0.304	0.283	0.281	0.262	0.287	4.25	
21) TMP 2,2-Dichloropr...			0.548	0.469	0.239	0.260	0.221	0.269	0.278	0.279	0.247	0.248	0.214	0.297	36.33	
22) TMP cis-1,2-Dichlo...	0.319	0.265	0.295	0.329	0.299	0.293	0.277	0.327	0.306	0.313	0.282	0.283	0.263	0.296	7.43	
23) TMP Chloroform			0.492	0.475	0.441	0.431	0.404	0.462	0.449	0.464	0.422	0.423	0.393	0.441	6.90	
24) TMP 2-Butanone (MEK)					0.116	0.099	0.107	0.087	0.111	0.108	0.108	0.102	0.098	0.102	9.64	
25) TMP t-Amyl methyl ...			0.555	0.599	0.557	0.539	0.522	0.590	0.564	0.584	0.529	0.530	0.490	0.551	5.97	
26) TMP 1,2-Dichloroet...	0.594	0.324	0.348	0.337	0.331	0.309	0.301	0.337	0.317	0.320	0.289	0.282	0.258	0.334	24.55	
27) TMP 1,1,1-Trichlor...	0.488	0.413	0.456	0.508	0.473	0.470	0.446	0.511	0.486	0.500	0.456	0.456	0.419	0.468	6.66	
28) TMP 1,1-Dichloropr...			0.402	0.331	0.339	0.319	0.299	0.331	0.314	0.321	0.293	0.294	0.279	0.320	10.35	
29) TMP Carbon tetrach...			0.516	0.530	0.483	0.479	0.446	0.505	0.506	0.535	0.497	0.501	0.469	0.497	5.31	
30) S 1,2-Dichloroet...	0.062	0.056	0.058	0.064	0.058	0.061	0.059	0.062	0.062	0.064	0.055	0.055	0.061	0.060	5.08	
31) TMP Benzene		1.061	0.779	0.830	0.907	0.854	0.835	0.794	0.897	0.855	0.879	0.803	0.741	0.849	9.37	
32) TMP Trichloroethene	0.283	0.263	0.302	0.340	0.317	0.312	0.279	0.340	0.325	0.332	0.296	0.304	0.258	0.304	8.99	
33) TMP 1,2-Dichloropr...			0.242	0.260	0.187	0.184	0.169	0.188	0.176	0.183	0.168	0.166	0.156	0.189	17.18	
34) TMP Bromodichlorom...			0.326	0.378	0.307	0.292	0.290	0.331	0.314	0.333	0.311	0.311	0.288	0.316	8.11	
35) S Toluene-d8	0.860	0.837	0.874	0.948	0.857	0.847	0.890	0.949	0.954	0.938	0.922	0.892	0.917	0.899	4.63	
36) TMP Dibromomethane			0.158	0.190	0.179	0.172	0.163	0.185	0.175	0.183	0.170	0.168	0.157	0.173	6.30	
37) TMP 4-Methyl-2-pen...			0.044	0.035	0.041	0.037	0.041	0.040	0.042	0.041	0.040	0.037	0.040	0.040	7.02	

Response Factor Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 38) TMP cis-1,3-Dichlo... 0.307 0.365 0.335 0.323 0.302 0.336 0.332 0.346 0.329 0.328 0.310 0.329 5.55

-----ISTD-----																
39) I	Chlorobenzene-d5	0.930	0.660	0.760	0.711	0.736	0.722	0.684	0.702	0.677	0.720	0.694	0.701	0.647	0.719	9.78
40) TMP	Toluene	0.454	0.313	0.358	0.351	0.340	0.344	0.336	0.366	0.355	0.365	0.355	0.331	0.356	10.16	
41) TMP	trans-1,3-Dich...	0.273	0.209	0.208	0.201	0.207	0.201	0.191	0.199	0.190	0.200	0.194	0.196	0.179	0.204	10.99
42) TMP	1,1,2-Trichlor...	0.143	0.158	0.145	0.142	0.139	0.133	0.143	0.146	0.140	0.127	0.142	0.127	0.142	5.72	
43) TMP	2-Hexanone	0.337	0.390	0.363	0.345	0.326	0.340	0.331	0.336	0.326	0.326	0.298	0.338	0.338	6.92	
44) TMP	1,3-Dichloropr...	0.458	0.438	0.455	0.444	0.413	0.425	0.410	0.433	0.416	0.418	0.392	0.443	0.443	13.36	
45) TMP	Tetrachloroethene	0.396	0.399	0.443	0.421	0.405	0.423	0.410	0.450	0.447	0.461	0.421	0.445	0.445	13.36	
46) TMP	Dibromochlorom...	0.326	0.331	0.342	0.333	0.316	0.328	0.317	0.335	0.325	0.320	0.295	0.335	0.335	5.20	
47) TMP	1,2-Dibromoeth...	0.971	0.979	0.959	0.982	0.881	0.940	0.899	0.974	0.938	0.965	0.886	0.943	0.943	13.88	
48) TMP	Chlorobenzene	1.520	1.376	1.395	1.348	1.261	1.301	1.233	1.288	1.220	1.216	1.112	1.560	1.560	4.02	
49) TMP	Ethylbenzene	0.445	0.399	0.411	0.417	0.382	0.405	0.403	0.425	0.422	0.435	0.396	0.413	0.413	54.19	
50) TMP	1,1,1,2-Tetrac...	2.210	0.790	0.703	0.621	0.623	0.599	0.554	0.568	0.537	0.559	0.535	0.539	0.493	0.718	4.45
51) TMP	m,p-Xylene	0.613	0.582	0.598	0.581	0.541	0.558	0.531	0.558	0.540	0.548	0.500	0.611	0.611	63.44	
52) TMP	o-Xylene	1.181	0.618	0.613	0.582	0.598	0.581	0.541	0.558	0.531	0.558	0.540	0.548	0.500	0.611	28.53
53) TMP	Styrene	0.930	0.835	0.907	0.865	0.824	0.838	0.801	0.861	0.835	0.856	0.783	0.848	0.848	5.02	
54) TMP	Isopropylbenzene	1.388	1.379	1.429	1.419	1.274	1.345	1.292	1.375	1.339	1.379	1.265	1.353	1.353	4.11	
55) TMP	Bromoforn	0.272	0.289	0.302	0.284	0.285	0.297	0.292	0.320	0.328	0.341	0.317	0.302	0.302	7.10	

-----ISTD-----															
56) I	1,4-Dichlorobenzen	0.616	0.630	0.612	0.615	0.589	0.608	0.607	0.585	0.594	0.595	0.586	0.606	0.606	2.43
57) S	4-Bromofluorob...	2.573	2.428	2.471	2.311	2.170	2.218	2.138	2.189	2.185	2.137	2.011	2.257	2.257	7.49
58) TMP	n-Propylbenzene	0.874	0.803	0.877	0.831	0.772	0.809	0.798	0.829	0.834	0.828	0.779	0.821	0.821	4.12
59) TMP	Bromobenzene	1.995	1.945	1.921	1.868	1.751	1.776	1.770	1.824	1.828	1.802	1.713	1.836	1.836	4.78
60) TMP	1,3,5-Trimethy...	0.440	0.459	0.485	0.440	0.438	0.417	0.401	0.412	0.427	0.406	0.433	0.433#	0.433#	5.65
61) TMP	1,1,2,2-Tetrac...	0.343	0.429	0.345	0.327	0.311	0.339	0.317	0.330	0.333	0.329	0.308	0.337#	0.337#	9.73
62) TMP	1,2,3-Trichlor...	1.301	1.305	1.404	1.387	1.266	1.270	1.240	1.269	1.257	1.243	1.166	1.282	1.282	5.22
63) TMP	2-Chlorotoluene	1.750	1.637	1.656	1.615	1.482	1.548	1.479	1.532	1.505	1.475	1.392	1.552	1.552	6.62
64) TMP	4-Chlorotoluene	2.280	1.956	2.053	1.956	1.792	1.901	1.829	1.936	1.940	1.939	1.825	1.946	1.946	6.84
65) TMP	tert-Butylbenzene	2.429	2.065	2.045	1.967	1.817	1.882	1.839	1.926	1.953	1.952	1.851	1.975	1.975	8.62
66) TMP	1,2,4-Trimethy...	2.383	2.419	2.465	2.460	2.252	2.354	2.307	2.441	2.463	2.473	2.336	2.396	2.396	3.12
67) TMP	sec-Butylbenzene	2.418	2.413	2.452	2.394	2.246	2.341	2.314	2.469	2.492	2.494	2.365	2.400	2.400	3.26
68) TMP	p-Isopropyltol...	1.579	1.527	1.583	1.468	1.399	1.448	1.412	1.468	1.478	1.483	1.392	1.476	1.476	4.42
69) TMP	1,3-Dichlorobe...	1.567	1.497	1.500	1.460	1.398	1.433	1.404	1.454	1.462	1.462	1.375	1.456	1.456	3.71
70) TMP	1,4-Dichlorobe...	1.611	1.461	1.529	1.432	1.307	1.370	1.339	1.402	1.426	1.428	1.337	1.422	1.422	6.27
71) TMP	1,2-Dichlorobe...	0.099	0.094	0.094	0.093	0.084	0.084	0.085	0.089	0.092	0.093	0.087	0.091	0.091	5.27
72) TMP	1,2-Dibromo-3-...	1.031	0.960	1.006	0.980	0.923	0.980	0.950	1.015	1.045	1.058	1.021	0.997	0.997	4.23
73) TMP	1,2,4-Trichlor...	0.692	0.627	0.591	0.572	0.530	0.559	0.543	0.592	0.592	0.603	0.565	0.588	0.588	7.52
74) TMP	Hexachlorobuta...	1.968	1.862	1.895	1.840	1.769	1.862	1.835	1.973	2.043	2.054	1.954	1.938	1.938	6.24
75) TMP	Naphthalene	2.205	1.968	1.862	1.895	1.840	1.769	1.862	1.835	1.973	2.043	2.054	1.938	1.938	6.24
76) TMP	1,2,3-Trichlor...	0.760	0.832	0.824	0.775	0.709	0.749	0.747	0.798	0.829	0.846	0.810	0.789	0.789	5.54

(#) = Out of Range

## Compound List Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:14:23 2022  
 Response Via : Initial Calibration

Total Cpnds : 76

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I Fluorobenzene	96	4.74	1.000	A	1	A	B
2	T Ethanol	45	2.33	0.492	A	1	A	B
3	S Dibromofluoromethane	113	4.17	0.882	A	0	A	B
4	T Dichlorodifluoromethane	85	1.11	0.234	A	1	A	B
5	T Chloromethane	50	1.25	0.264	A	1	A	B
6	T Vinyl chloride	-62	1.33	0.280	A	1	A	B
7	T Bromomethane	94	1.57	0.332	A	1	A	B
8	T Chloroethane	-64	1.64	0.346	A	1	A	B
9	T Trichlorofluoromethane	101	1.83	0.386	A	1	A	B
10	T 2-Propanol	45	2.33	0.492	A	1	A	B
11	T Acetone -	58	2.32	0.490	Q	1	A	B
12	T 1,1-Dichloroethene	-96	2.26	0.478	A	2	A	B
13	T Hexane -	57	3.16	0.667	L	2	A	B
14	T Methylene chloride -	84	2.68	0.566	Q	2	A	B
15	T t-Butyl alcohol (TBA)	59	2.81	0.593	A	1	A	B
16	T Methyl t-butyl ether (MTBE)	-73	2.92	0.618	A	1	A	B
17	T trans-1,2-Dichloroethene	-96	2.91	0.615	A	2	A	B
18	T Diisopropyl ether (DIPE)	45	3.34	0.706	A	3	A	B
19	T 1,1-Dichloroethane	-63	3.27	0.692	A	2	A	B
20	T Ethyl t-butyl ether (ETBE)	87	3.65	0.771	A	3	A	B
21	T 2,2-Dichloropropane -	77	3.76	0.795	L	1	A	B
22	T cis-1,2-Dichloroethene	-96	3.77	0.796	A	2	A	B
23	T Chloroform	83	4.04	0.853	A	1	A	B
24	T 2-Butanone (MEK) -	43	3.78	0.799	Q	2	A	B
25	T t-Amyl methyl ether (TAME)	73	4.61	0.974	A	2	A	B
26	T 1,2-Dichloroethane (EDC)-	-62	4.52	0.954	L	1	A	B
27	T 1,1,1-Trichloroethane	-97	4.19	0.885	A	2	A	B
28	T 1,1-Dichloropropene	75	4.33	0.915	A	2	A	B
29	T Carbon tetrachloride	117	4.33	0.915	A	1	A	B
30	S 1,2-Dichloroethane-d4	102	4.46	0.941	A	1	A	B
31	T Benzene -	-78	4.50	0.951	L	1	A	B
32	T Trichloroethene	-95	5.05	1.067	A	3	A	B
33	T 1,2-Dichloropropane -	63	5.24	1.107	L	1	A	B
34	T Bromodichloromethane	83	5.48	1.158	A	2	A	B
35	S Toluene-d8	98	6.11	1.289	A	1	A	B
36	T Dibromomethane	93	5.34	1.127	A	2	A	B
37	T 4-Methyl-2-pentanone	85	6.01	1.269	A	2	A	B
38	T cis-1,3-Dichloropropene	75	5.88	1.241	A	2	A	B
39	I Chlorobenzene-d5	117	7.41	1.000	A	1	A	B
40	T Toluene -	-92	6.16	0.832	L	1	A	B
41	T trans-1,3-Dichloropropene	75	6.36	0.859	A	2	A	B
42	T 1,1,2-Trichloroethane -	-83	6.53	0.881	L	2	A	B
43	T 2-Hexanone	43	6.76	0.913	A	3	A	B
44	T 1,3-Dichloropropane	76	6.67	0.901	A	1	A	B
45	T Tetrachloroethene-	-164	6.65	0.898	Q	3	A	B
46	T Dibromochloromethane	129	6.87	0.928	A	1	A	B
47	T 1,2-Dibromoethane (EDB)-	-107	6.97	0.941	L	2	A	B
48	T Chlorobenzene	112	7.43	1.003	A	2	A	B
49	T Ethylbenzene -	-91	7.54	1.018	L	1	A	B
50	T 1,1,1,2-Tetrachloroethane	131	7.51	1.014	A	2	A	B
51	T m,p-Xylene -	-106	7.65	1.033	L	1	A	B
52	T o-Xylene -	-106	8.02	1.083	L	1	A	B
53	T Styrene	104	8.03	1.085	A	1	A	B
54	T Isopropylbenzene	105	8.37	1.130	A	1	A	B
55	T Bromoform	173	8.20	1.107	A	2	A	B



56	I	1,4-Dichlorobenzene-d4	152	9.62	1.000	A	2	A	B
57	S	4-Bromofluorobenzene	95	8.51	0.884	A	2	A	B
58	T	n-Propylbenzene	91	8.77	0.911	A	1	A	B
59	T	Bromobenzene	156	8.65	0.898	A	2	A	B
60	T	1,3,5-Trimethylbenzene	105	8.94	0.929	A	1	A	B
61	T	1,1,2,2-Tetrachloroethane	83	8.66	0.900	L	2	A	B
62	T	1,2,3-Trichloropropane	75	8.70	0.904	A	3	A	B
63	T	2-Chlorotoluene	91	8.84	0.918	A	1	A	B
64	T	4-Chlorotoluene	91	8.95	0.930	A	1	A	B
65	T	tert-Butylbenzene	119	9.25	0.961	A	2	A	B
66	T	1,2,4-Trimethylbenzene	105	9.30	0.966	A	1	A	B
67	T	sec-Butylbenzene	105	9.46	0.983	A	1	A	B
68	T	p-Isopropyltoluene	119	9.61	0.999	A	2	A	B
69	T	1,3-Dichlorobenzene	146	9.56	0.994	A	2	A	B
70	T	1,4-Dichlorobenzene	146	9.64	1.002	A	2	A	B
71	T	1,2-Dichlorobenzene	146	10.01	1.040	A	2	A	B
72	T	1,2-Dibromo-3-chloropropane	75	10.77	1.120	A	2	A	B
73	T	1,2,4-Trichlorobenzene	180	11.59	1.204	A	2	A	B
74	T	Hexachlorobutadiene	225	11.77	1.223	A	2	A	B
75	T	Naphthalene	128	11.83	1.230	A	2	A	B
76	T	1,2,3-Trichlorobenzene	180	12.08	1.255	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

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VB113022msl3.M Thu Dec 01 12:46:39 2022

Calibration Status Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:14:23 2022  
 Response Via : Initial Calibration

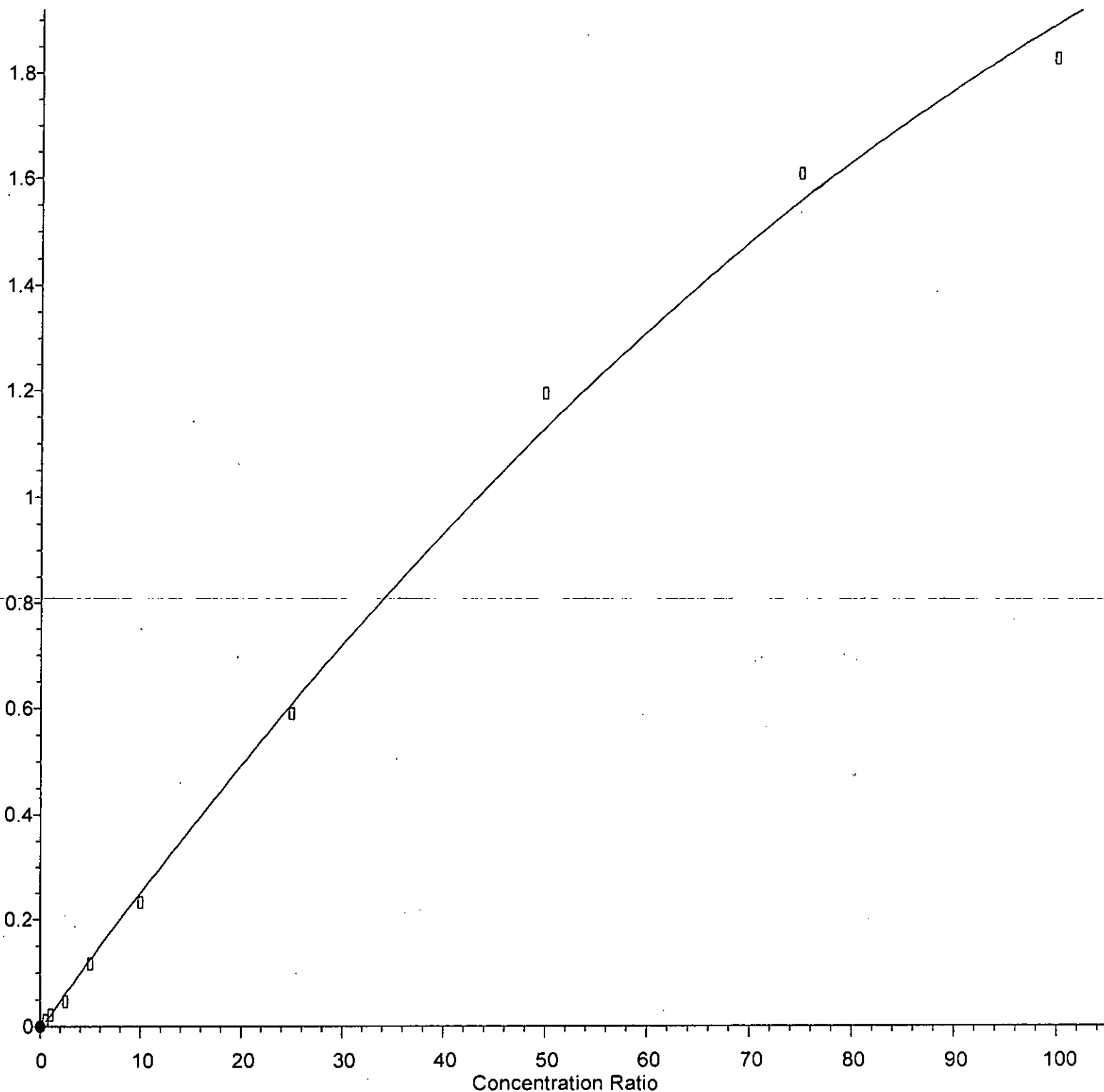
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1	0.02	10	10	Y:\Proc_GCMS13\11-30-22\113030.D
3	0.1	10	10	Y:\Proc_GCMS13\11-30-22\113032.D
4	0.2	10	10	Y:\Proc_GCMS13\11-30-22\113033.D
5	0.5	10	10	Y:\Proc_GCMS13\11-30-22\113034.D
6	1	10	10	Y:\Proc_GCMS13\11-30-22\113035.D
7	2	10	10	Y:\Proc_GCMS13\11-30-22\113036.D
8	5	10	10	Y:\Proc_GCMS13\11-30-22\113037.D
9	10	10	10	Y:\Proc_GCMS13\11-30-22\113038.D
10	20	10	10	Y:\Proc_GCMS13\11-30-22\113039.D
11	50	10	10	Y:\Proc_GCMS13\11-30-22\113040.D
12	100	10	10	Y:\Proc_GCMS13\11-30-22\113041.D
13	150	10	10	Y:\Proc_GCMS13\11-30-22\113042.D

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1	0.02	Dec 01 08:17 2022	Dec 01 07:33 2022	30 Nov 2022 10:43 pm
3	0.1	Dec 01 08:17 2022	Dec 01 07:44 2022	30 Nov 2022 11:29 pm
4	0.2	Dec 01 08:17 2022	Dec 01 07:47 2022	30 Nov 2022 11:52 pm
5	0.5	Dec 01 08:17 2022	Dec 01 07:50 2022	01 Dec 2022 12:15 am
6	1	Dec 01 08:17 2022	Dec 01 07:53 2022	01 Dec 2022 12:39 am
7	2	Dec 01 08:17 2022	Dec 01 07:55 2022	01 Dec 2022 01:02 am
8	5	Dec 01 08:17 2022	Dec 01 07:57 2022	01 Dec 2022 01:25 am
9	10	Dec 01 08:17 2022	Dec 01 08:09 2022	01 Dec 2022 01:49 am
10	20	Dec 01 08:17 2022	Dec 01 07:26 2022	01 Dec 2022 02:12 am
11	50	Dec 01 08:17 2022	Dec 01 07:26 2022	01 Dec 2022 02:35 am
12	100	Dec 01 08:17 2022	Dec 01 07:26 2022	01 Dec 2022 02:58 am
13	150	Dec 01 08:17 2022	Dec 01 07:26 2022	01 Dec 2022 03:22 am

VB113022ms13.M Thu Dec 01 12:46:49 2022

Acetone

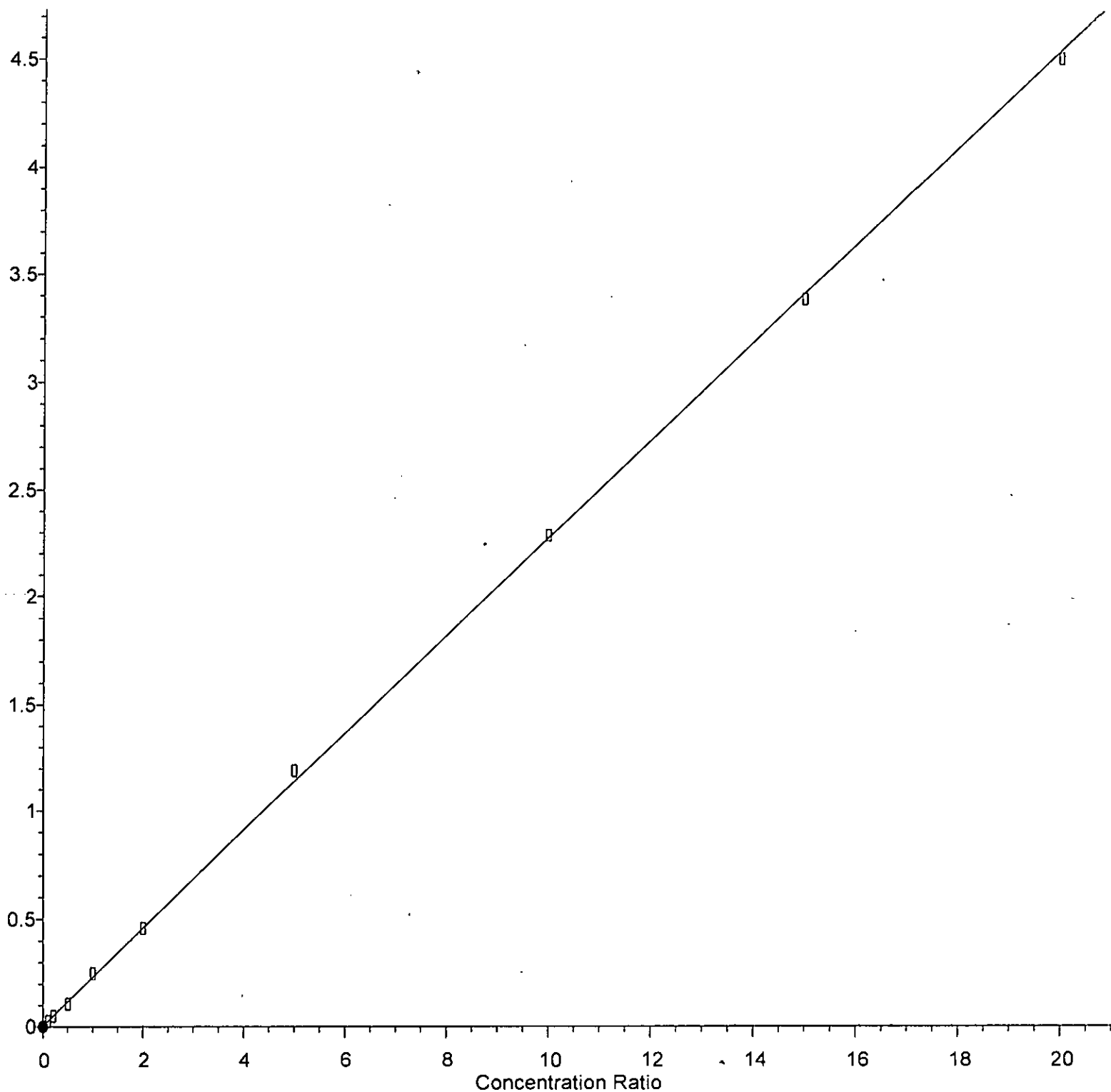
Response Ratio



R = -7.360e-005 A\*A + 2.635e-002 A - 5.122e-003  
Coef of Det (r^2) = 0.997069 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Hexane

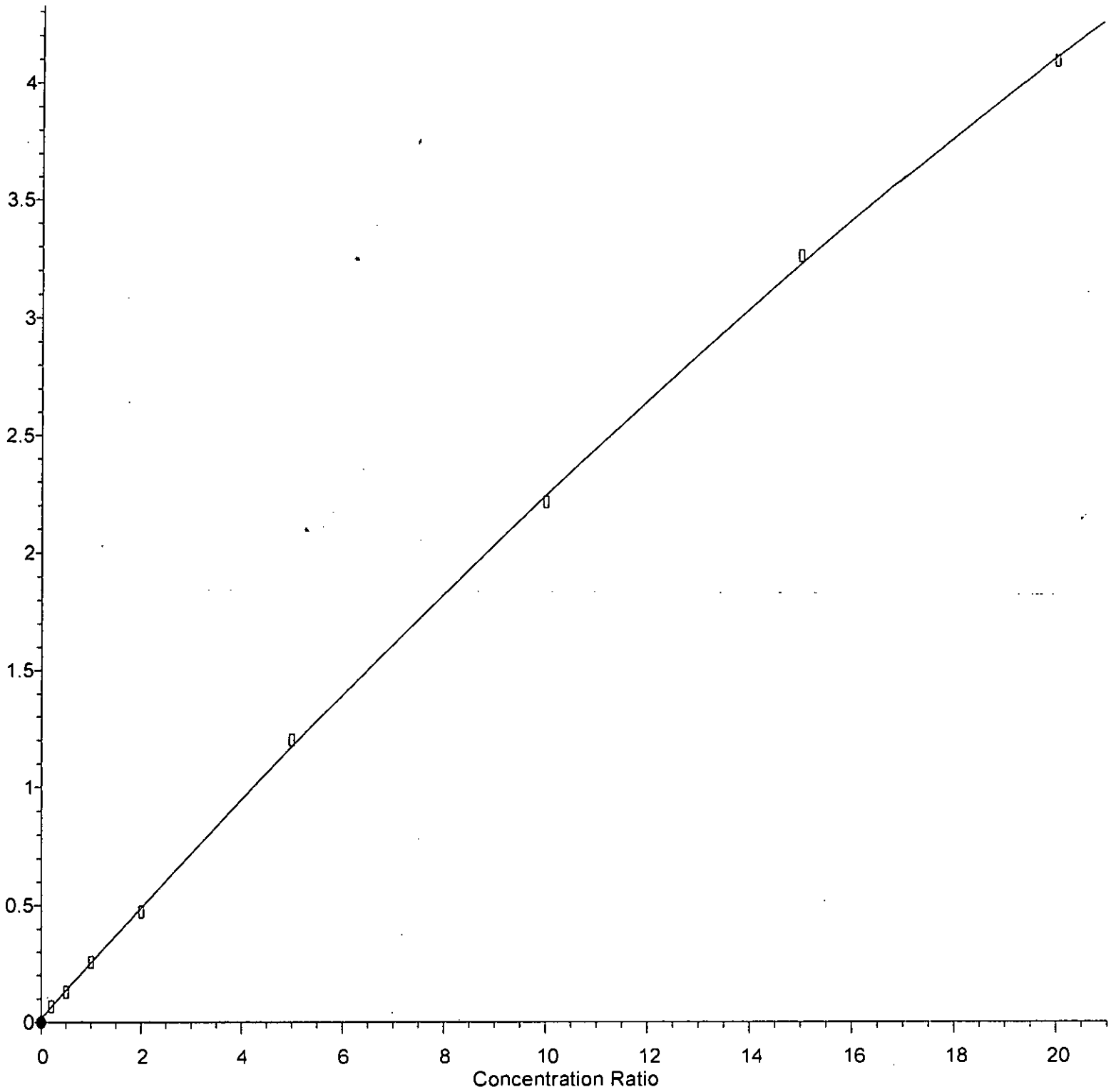
Response Ratio



Response = 2.271e-001 \* Amt + 4.451e-003  
Coef of Det (r^2) = 0.999512 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Methylene chloride

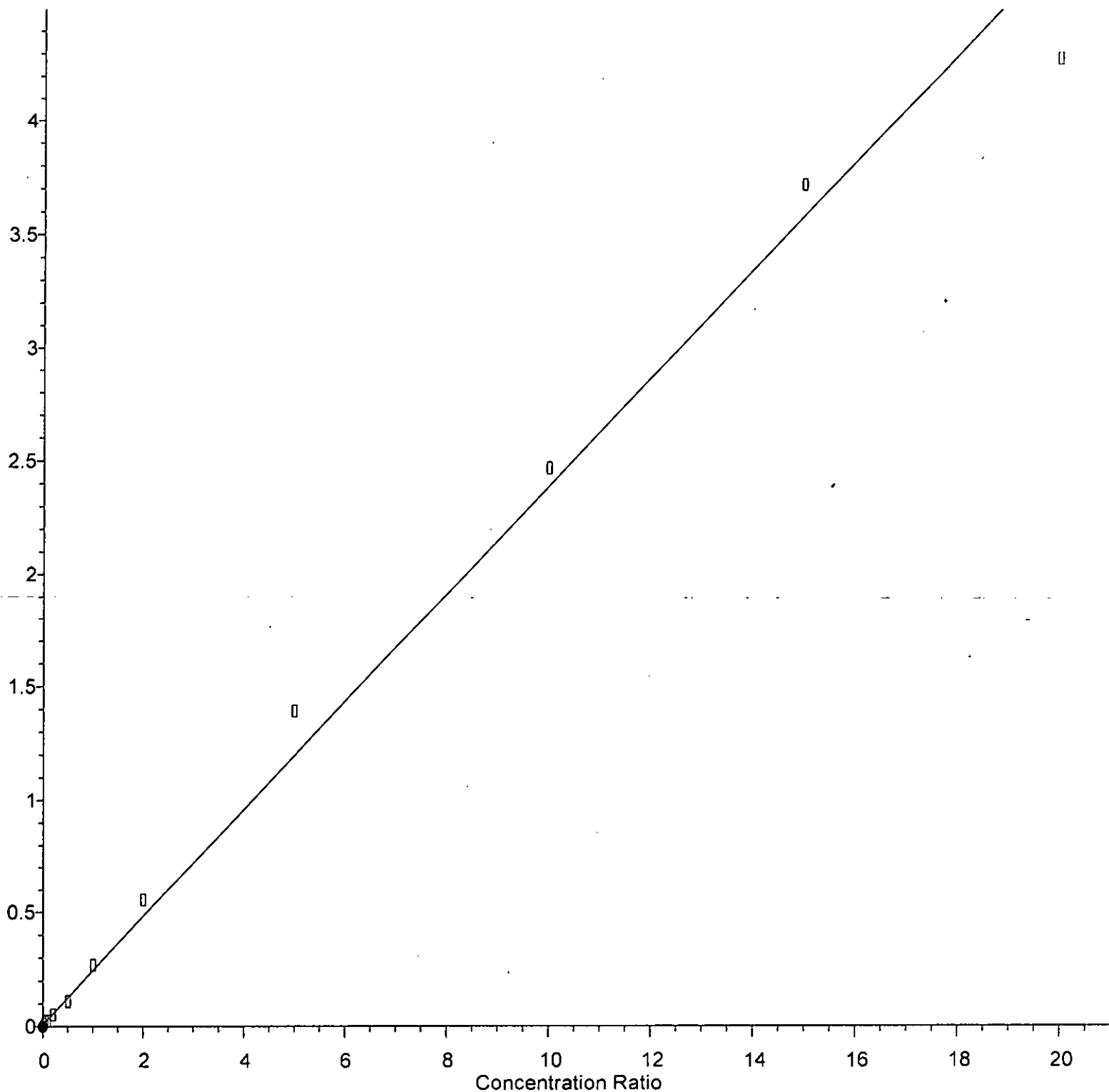
Response Ratio



$R = -1.698e-003 A^2 + 2.399e-001 A + 1.659e-002$   
Coef of Det ( $r^2$ ) = 0.999706 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

2,2-Dichloropropane

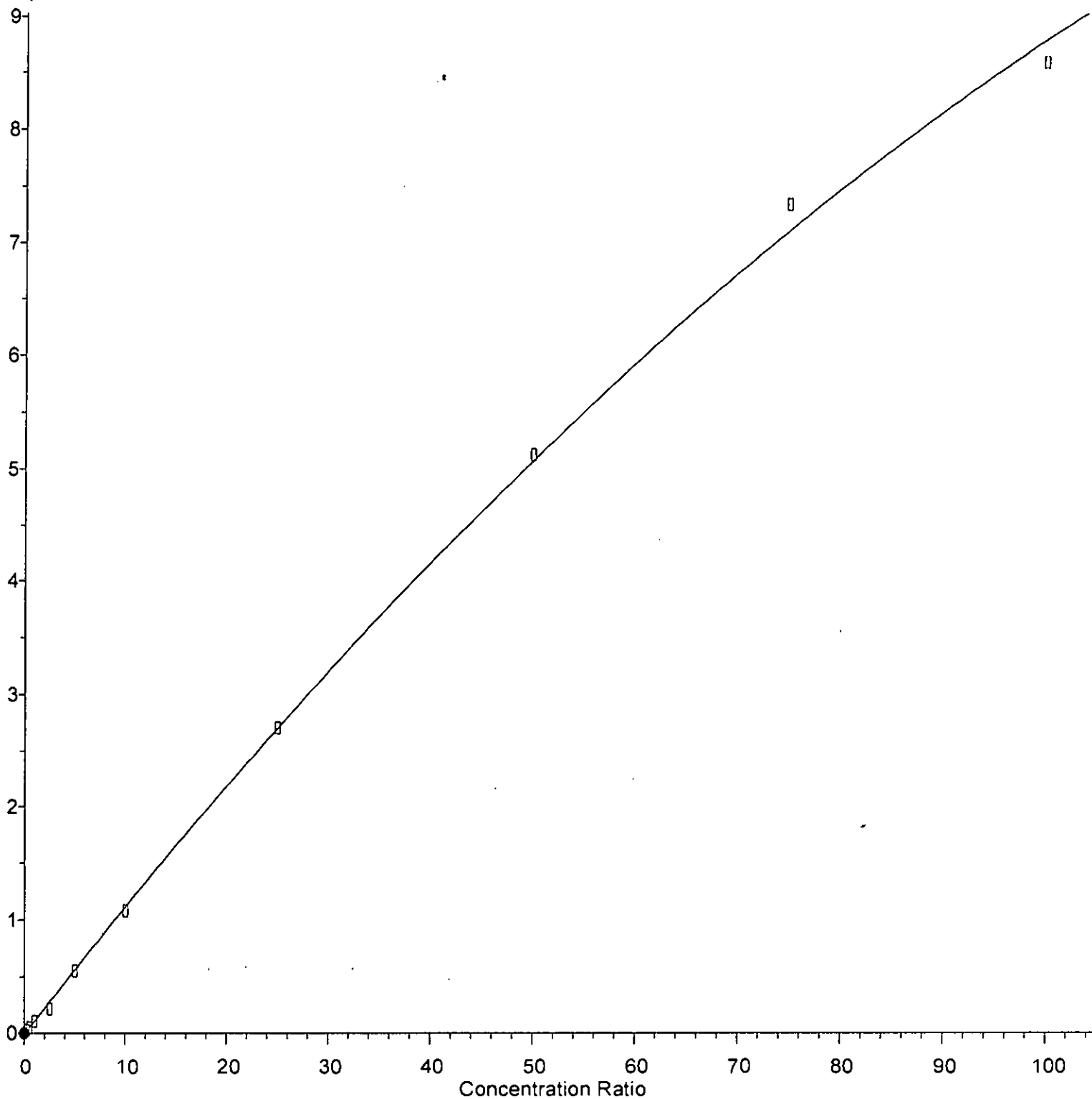
Response Ratio



Response = 2.380e-001 \* Amt + 7.346e-003  
Coef of Det (r^2) = 0.991273 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

2-Butanone (MEK)

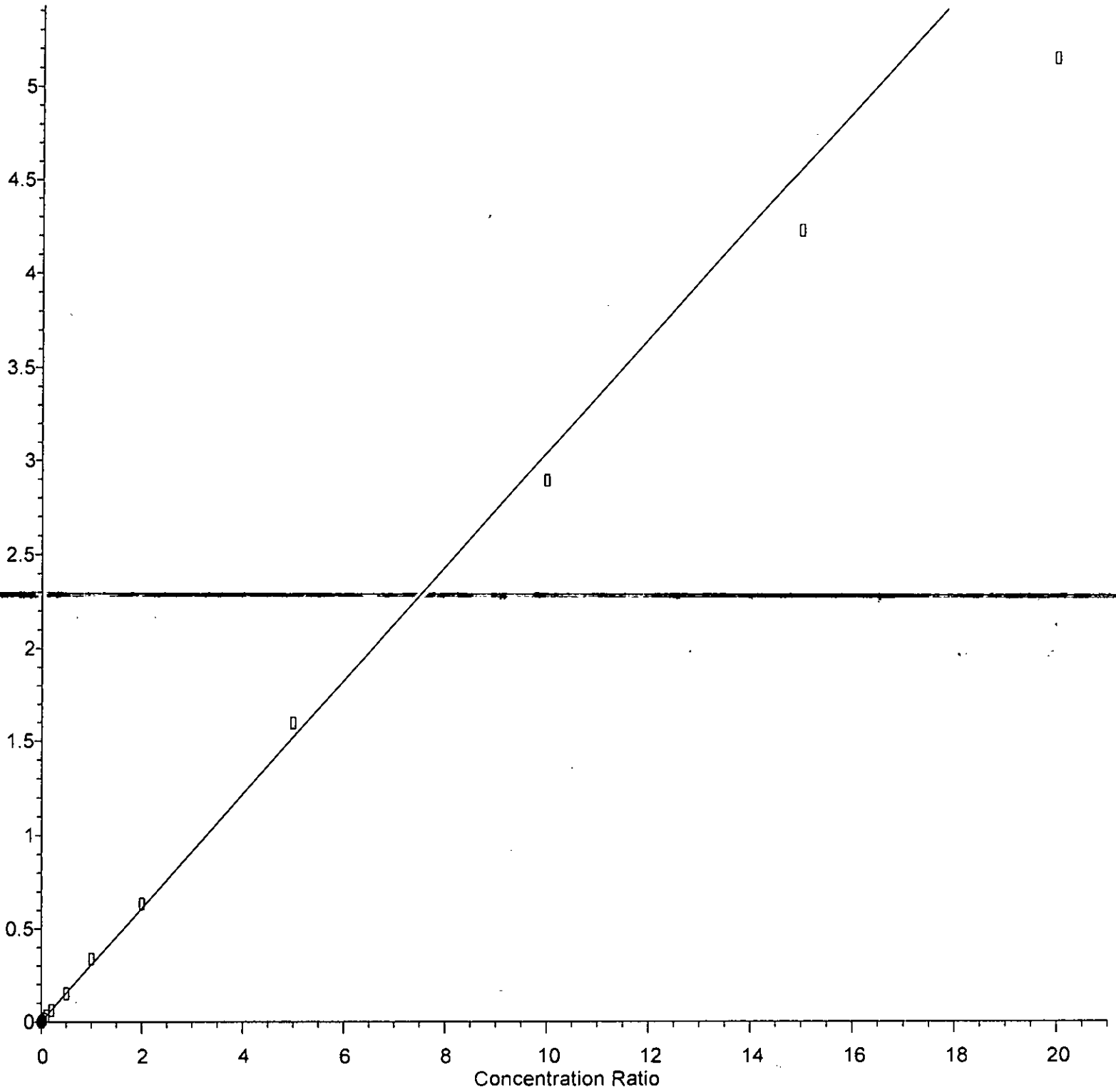
Response Ratio



$R = -2.690e-004 A^2 + 1.150e-001 A - 7.036e-003$   
Coef of Det ( $r^2$ ) = 0.998724 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,2-Dichloroethane (EDC)

Response Ratio

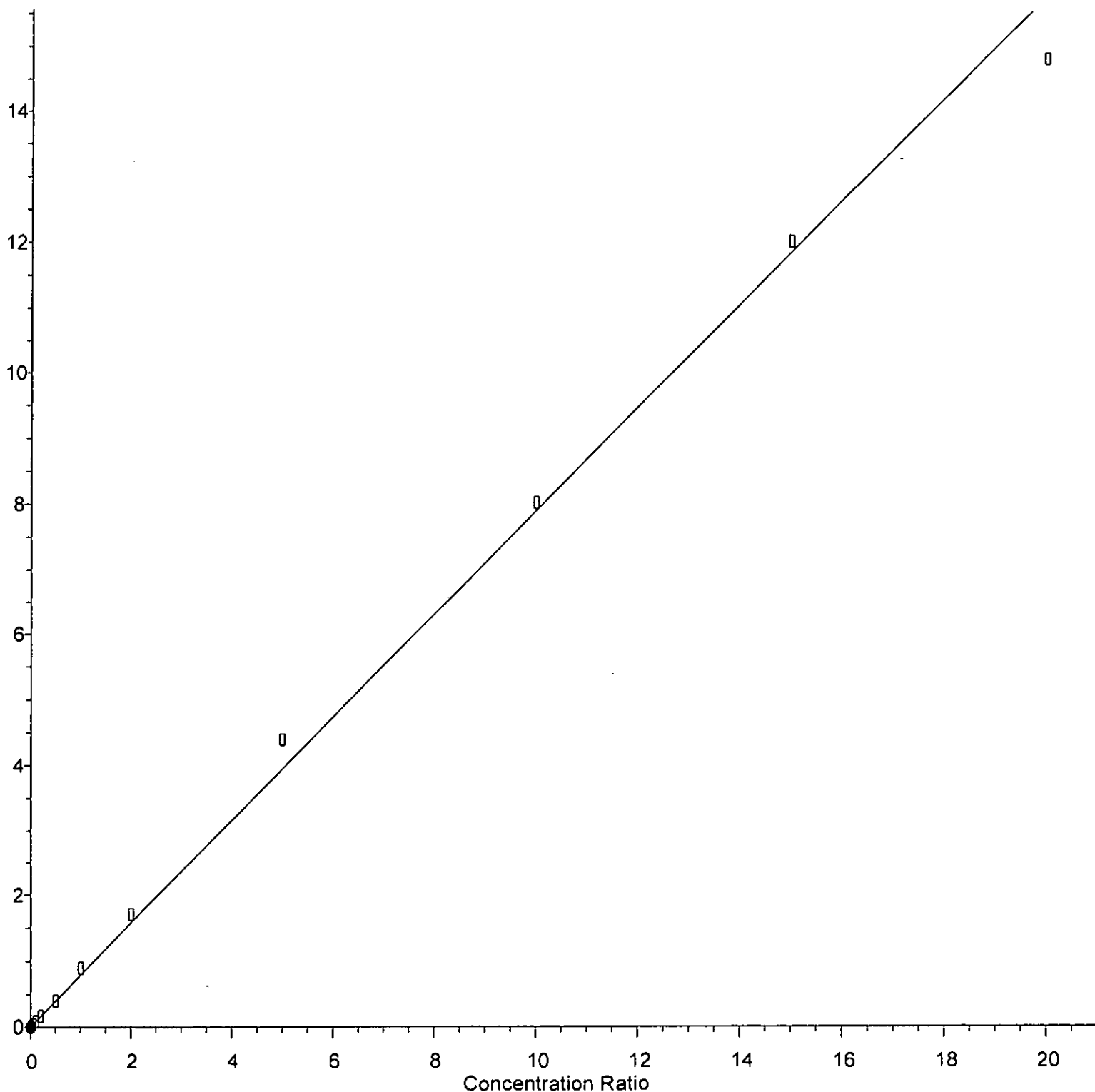


Response =  $3.041 \times 10^{-1} \cdot \text{Amt} + 5.717 \times 10^{-4}$   
Coef of Det ( $r^2$ ) = 0.993435 Curve Fit:  $wlr(1/a^2)$   
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022



Benzene

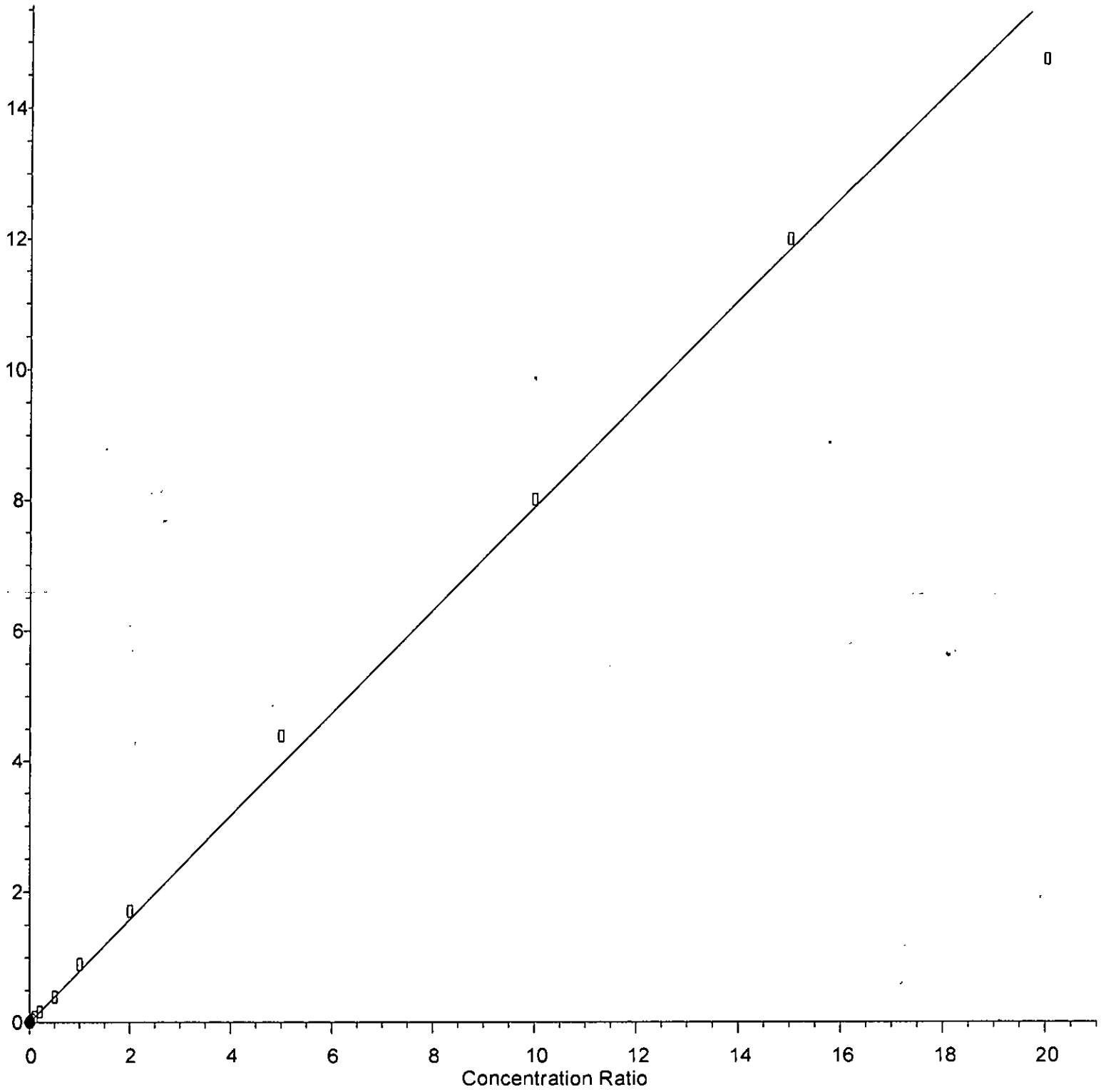
Response Ratio



Response = 7.901e-001 \* Amt + 1.110e-003  
Coef of Det (r^2) = 0.996690 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Benzene

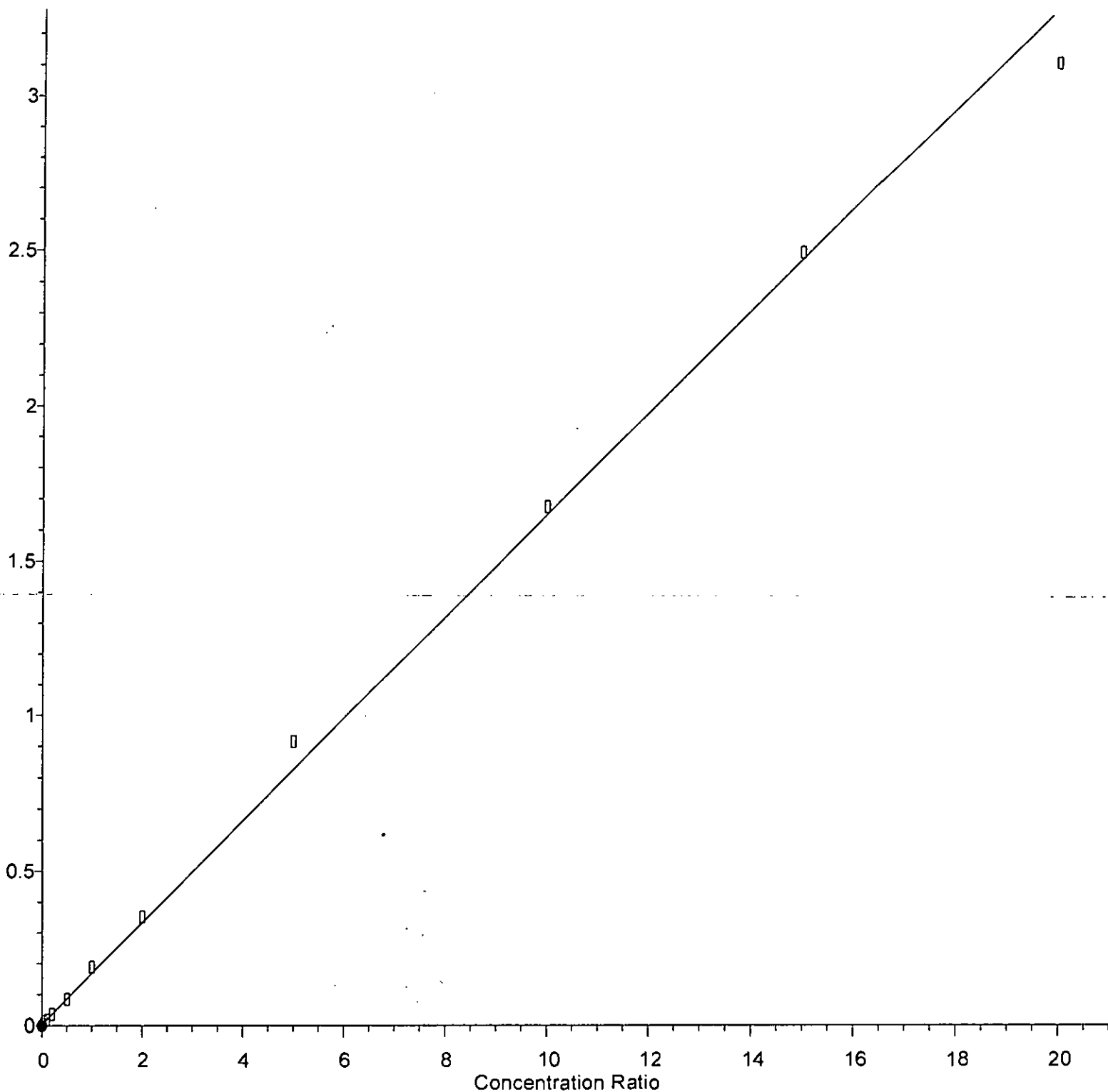
Response Ratio



Response = 7.901e-001 \* Amt + 1.110e-003  
Coef of Det (r^2) = 0.996690 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,2-Dichloropropane

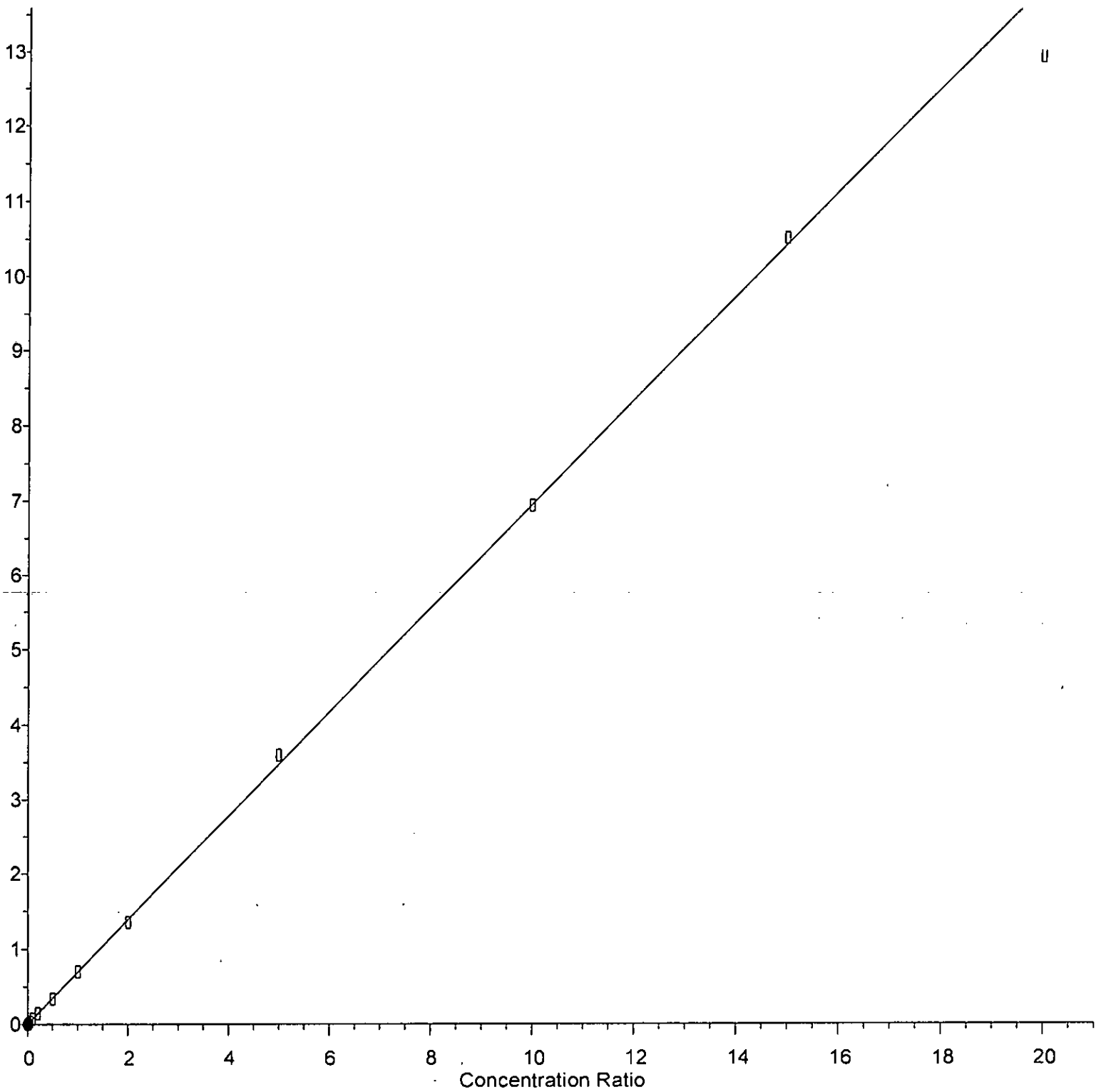
Response Ratio



Response = 1.647e-001 \* Amt + 3.010e-003  
Coef of Det (r^2) = 0.997143 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Toluene

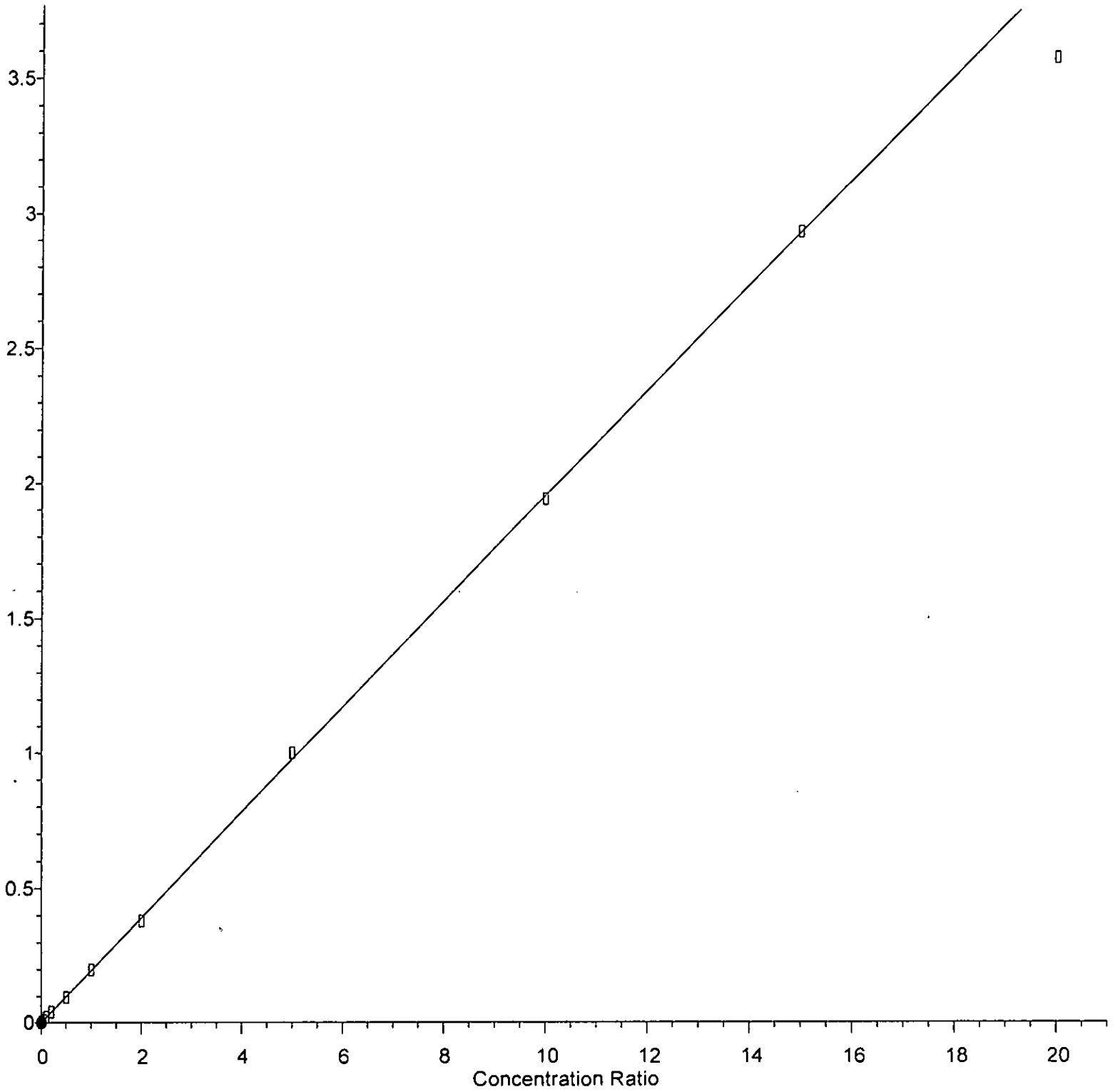
Response Ratio



Response = 6.949e-001 \* Amt + 4.485e-004  
Coef of Det (r^2) = 0.997458 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,1,2-Trichloroethane

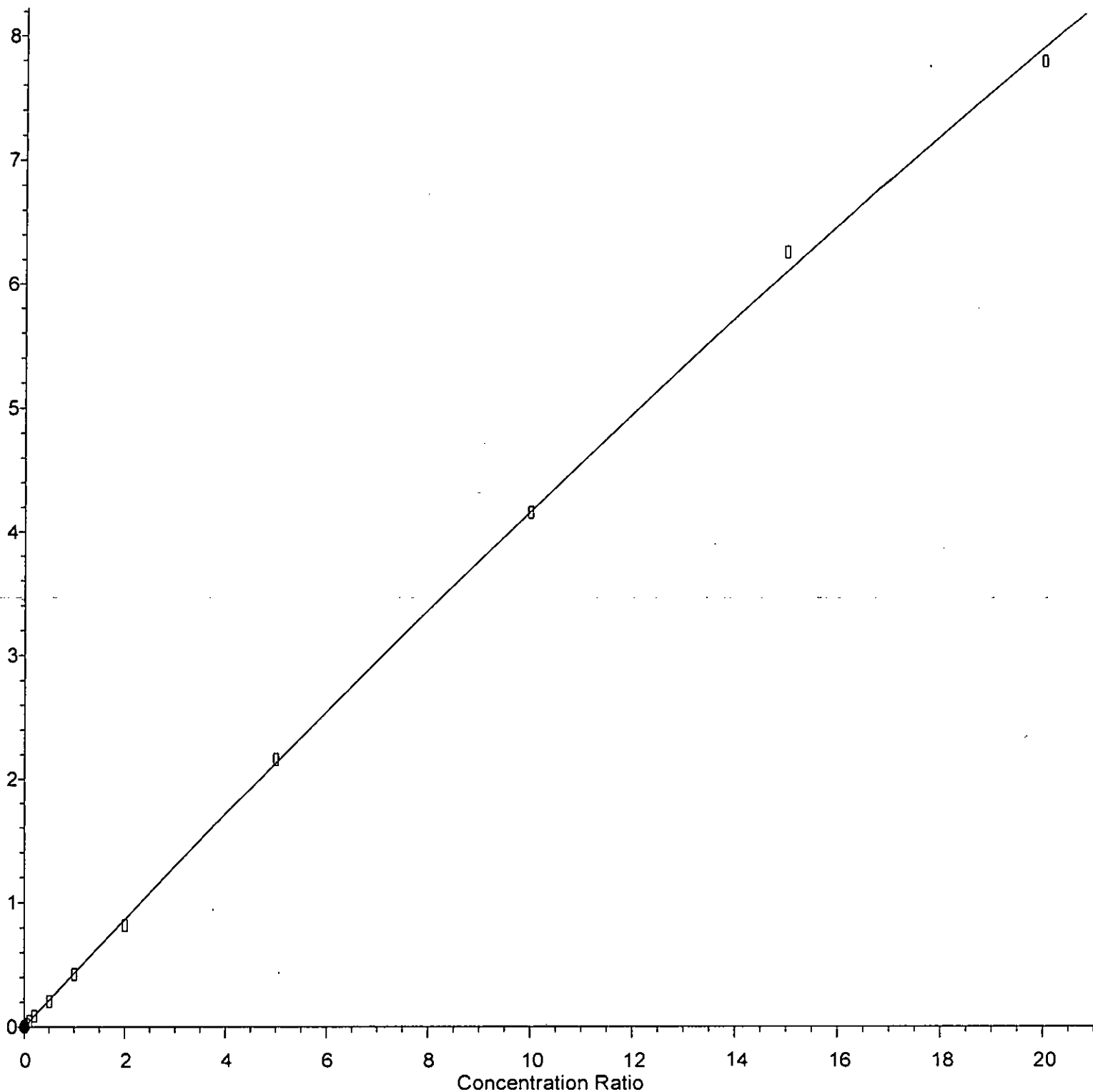
Response Ratio



Response = 1.955e-001 \* Amt + 1.561e-004  
Coef of Det (r^2) = 0.998845 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Tetrachloroethene

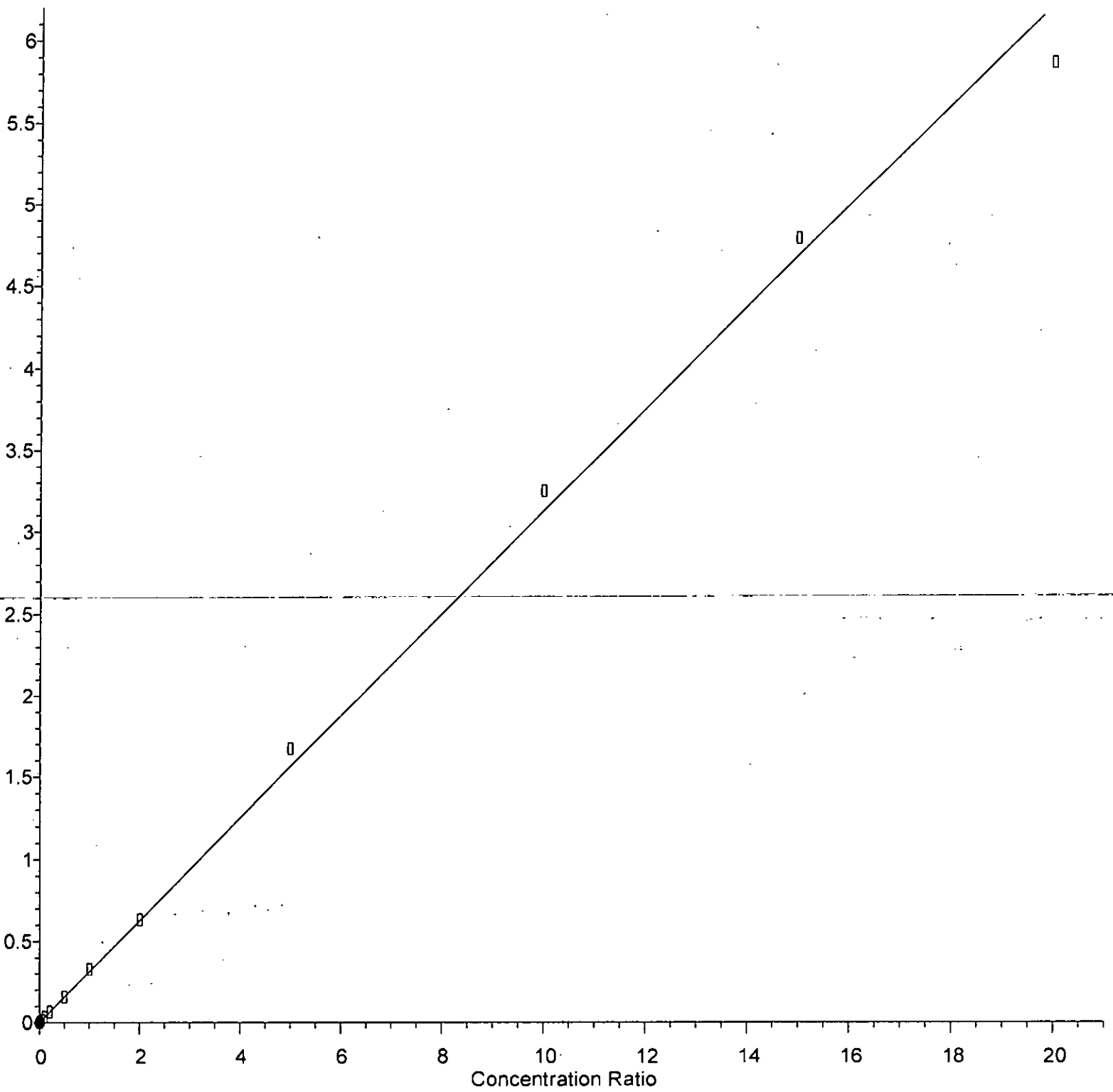
Response Ratio



$R = -1.947e-003 A^2 + 4.365e-001 A + 2.769e-004$   
Coef of Det ( $r^2$ ) = 0.999555 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,2-Dibromoethane (EDB)

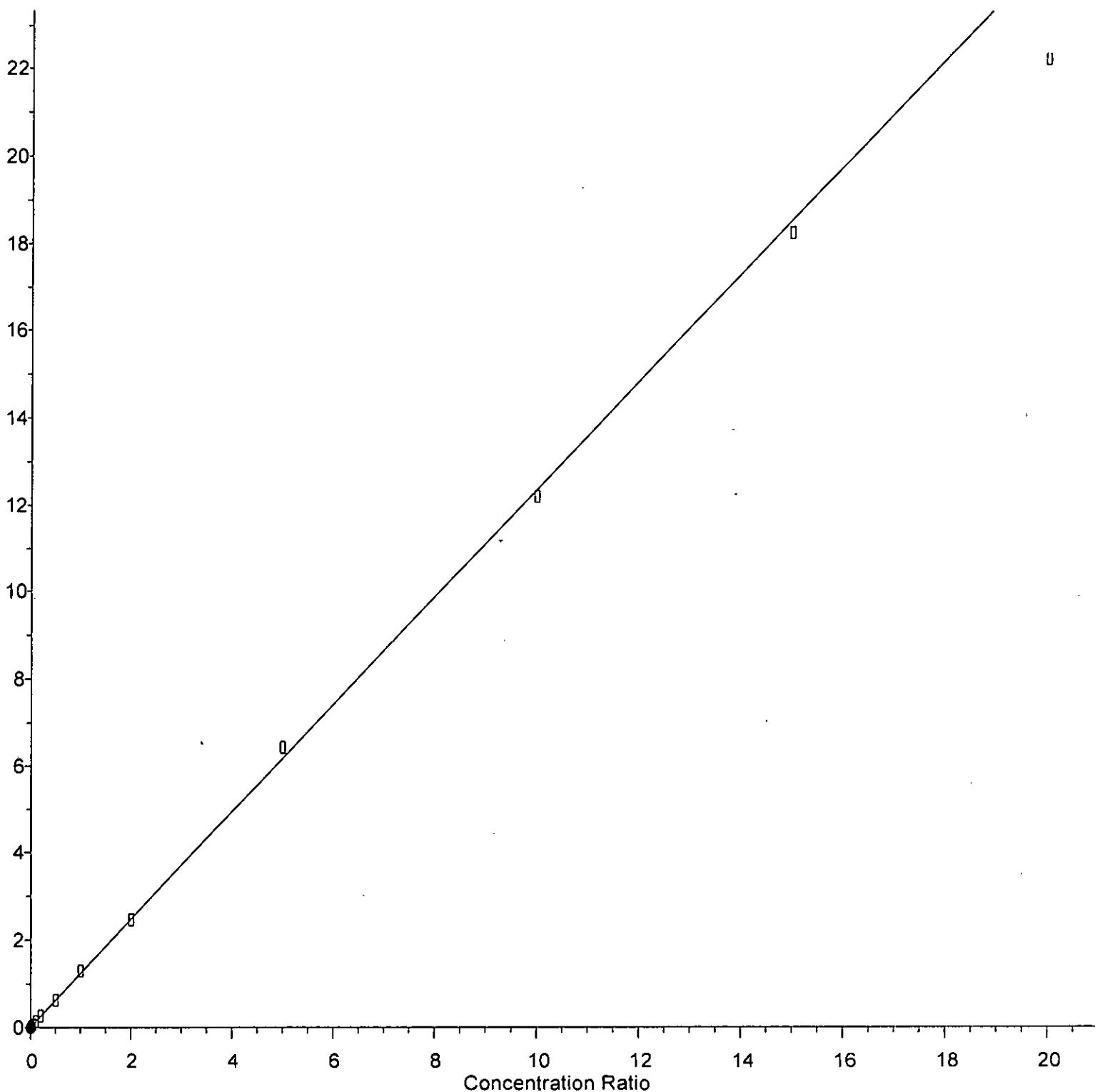
Response Ratio



Response =  $3.131 \times 10^{-1} \cdot \text{Amt} + 4.197 \times 10^{-4}$   
Coef of Det ( $r^2$ ) = 0.997817 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Ethylbenzene

Response Ratio

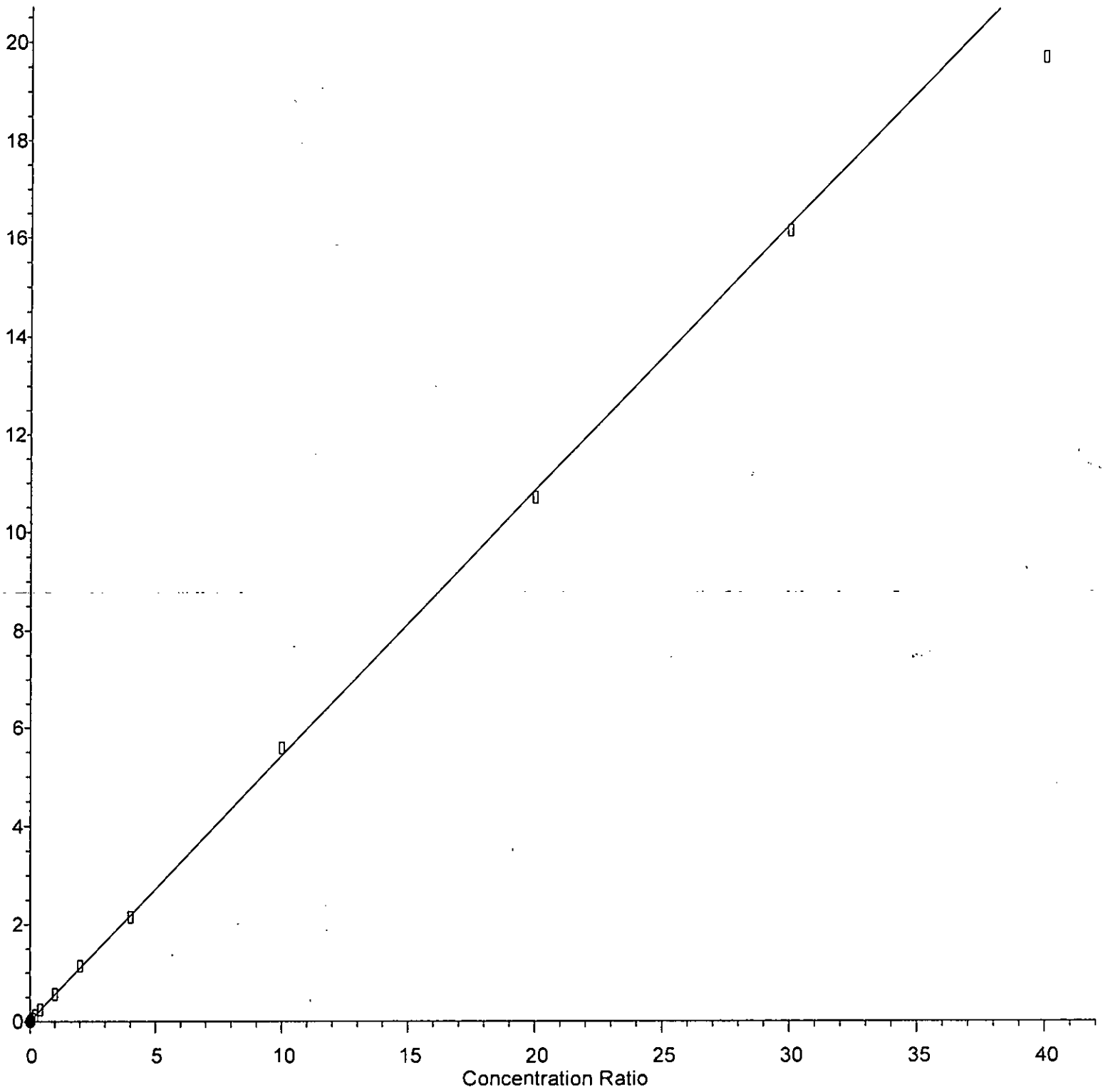


Response = 1.235e+000 \* Amt + 6.127e-003  
Coef of Det (r^2) = 0.995940 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022



m,p-Xylene

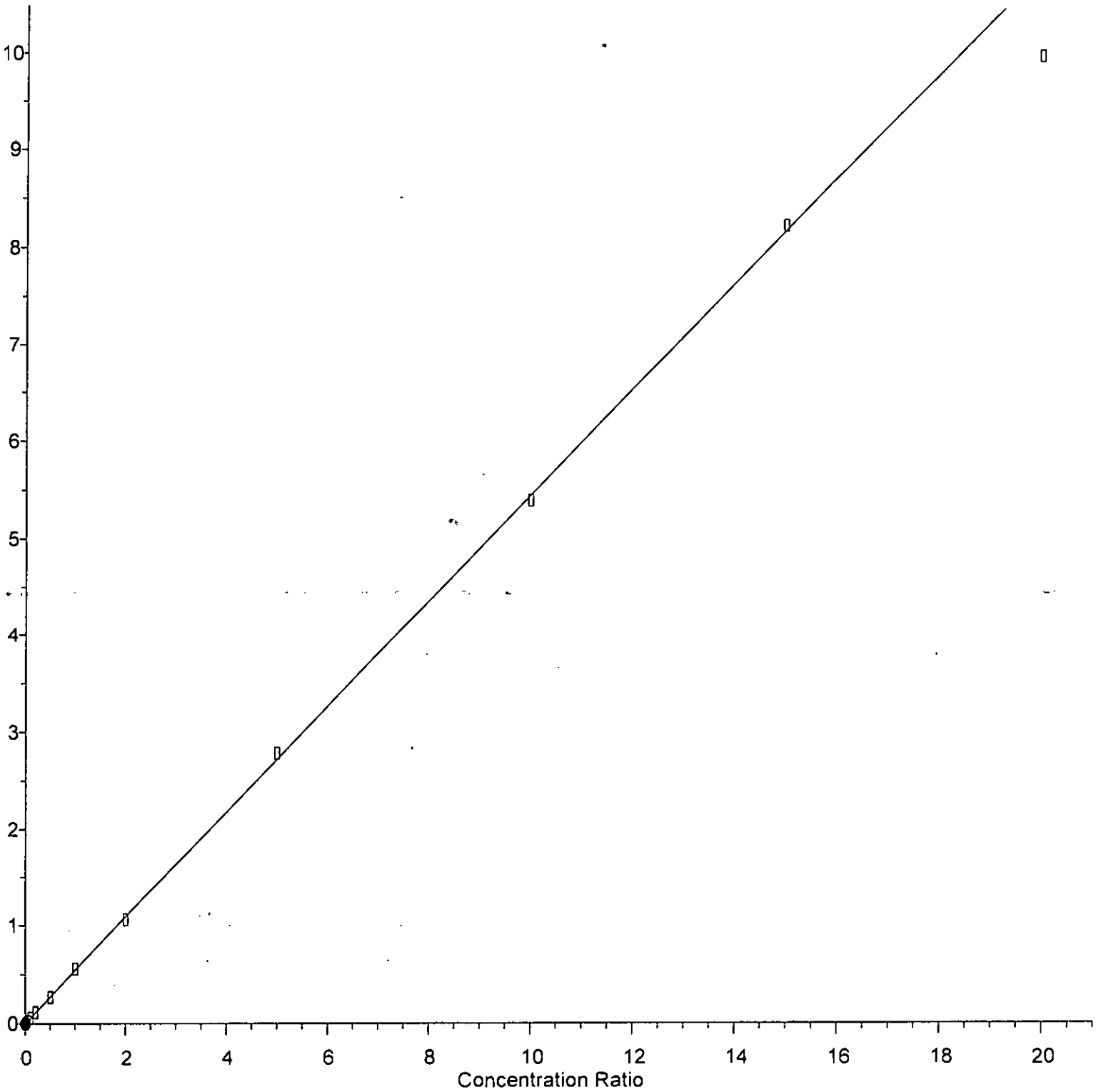
Response Ratio



Response = 5.426e-001 \* Amt + 6.608e-003  
Coef of Det (r^2) = 0.995667 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

o-Xylene

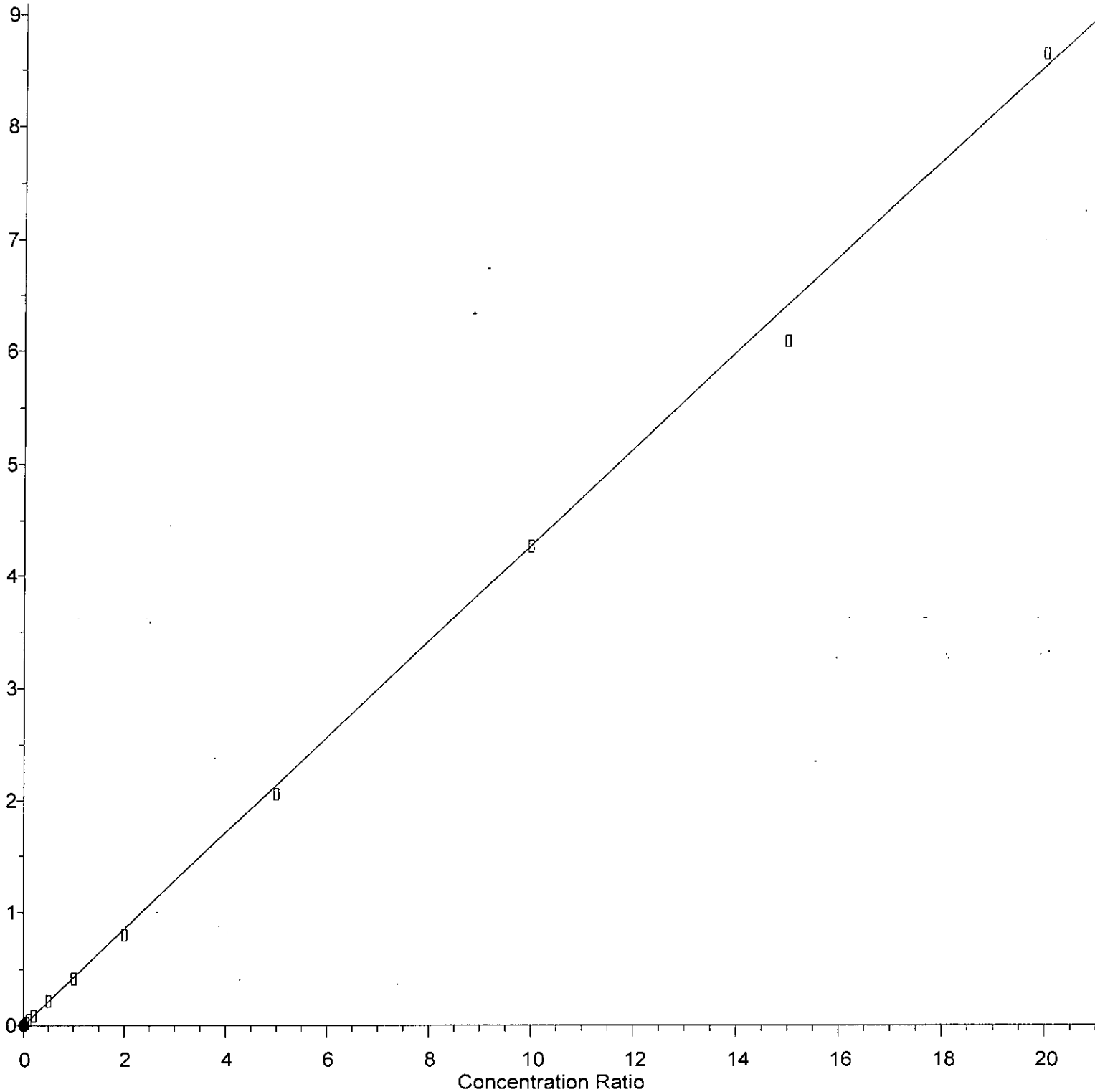
Response Ratio



Response = 5.448e-001 \* Amt + 1.255e-003  
Coef of Det (r^2) = 0.997552 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,1,2,2-Tetrachloroethane

Response Ratio

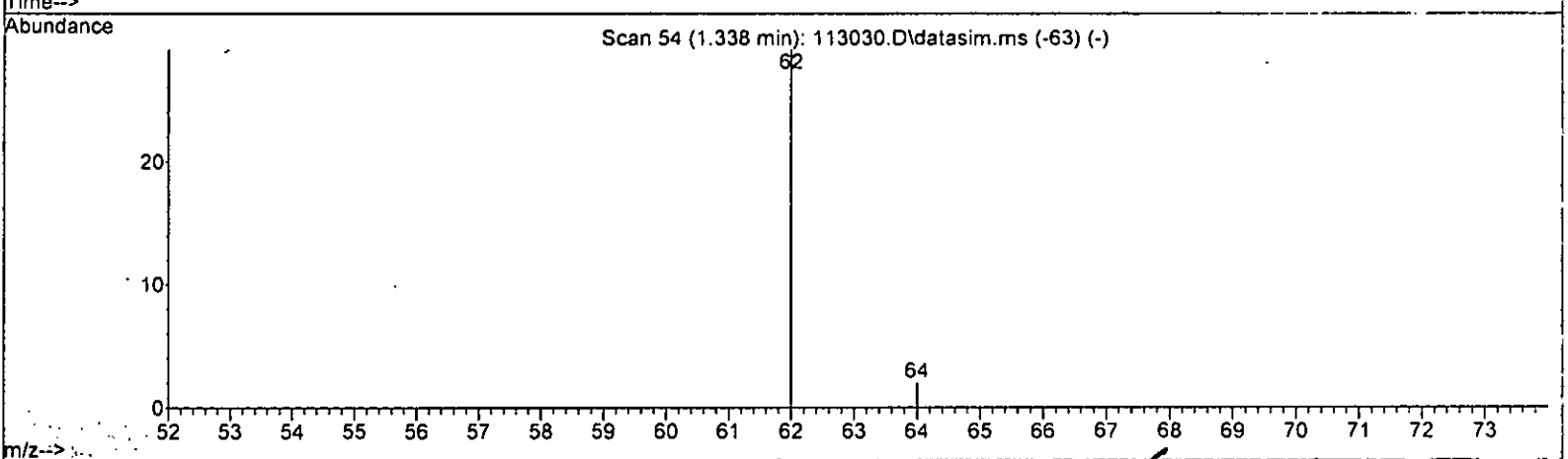
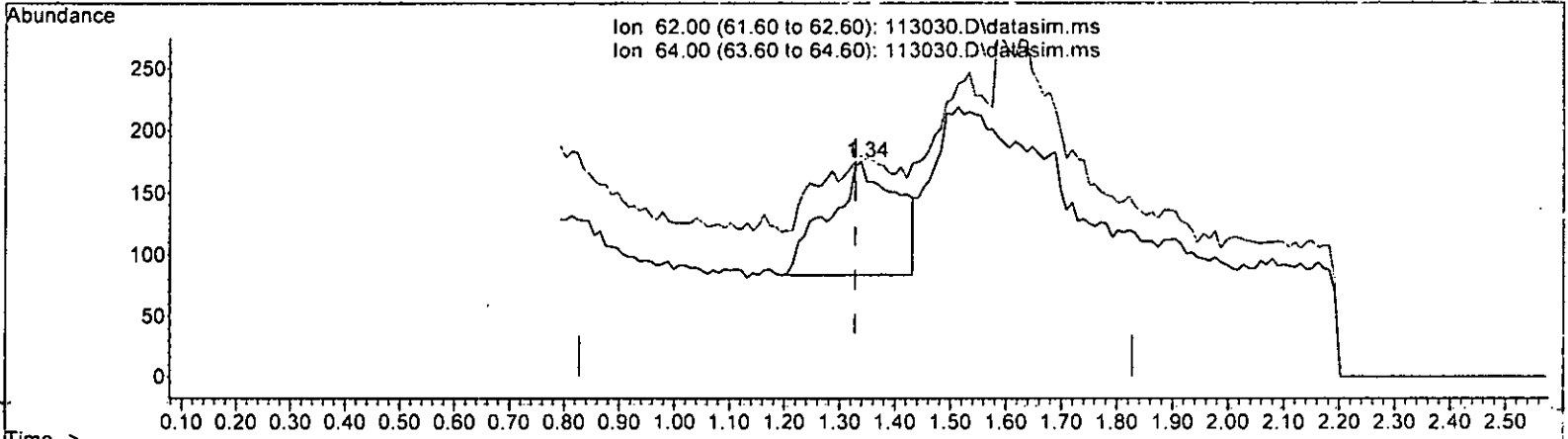


Response = 4.275e-001 \* Amt + 6.174e-004  
Coef of Det (r^2) = 0.996686 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 0.153 ppb

response 778

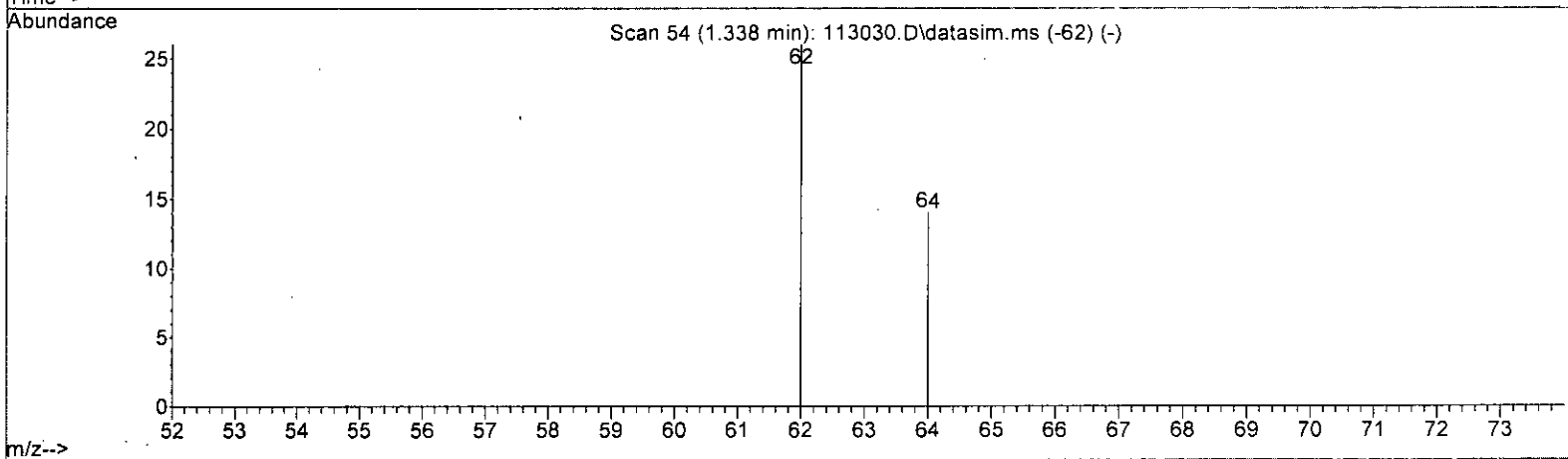
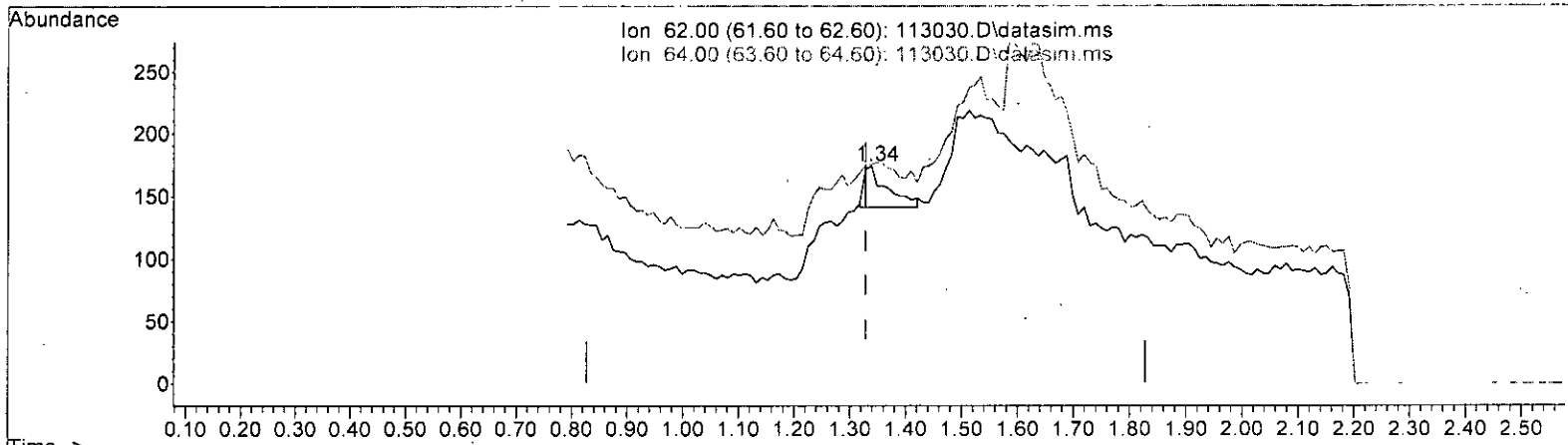
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	62.64#
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(6) Vinyl chloride (TMP) M 12.1

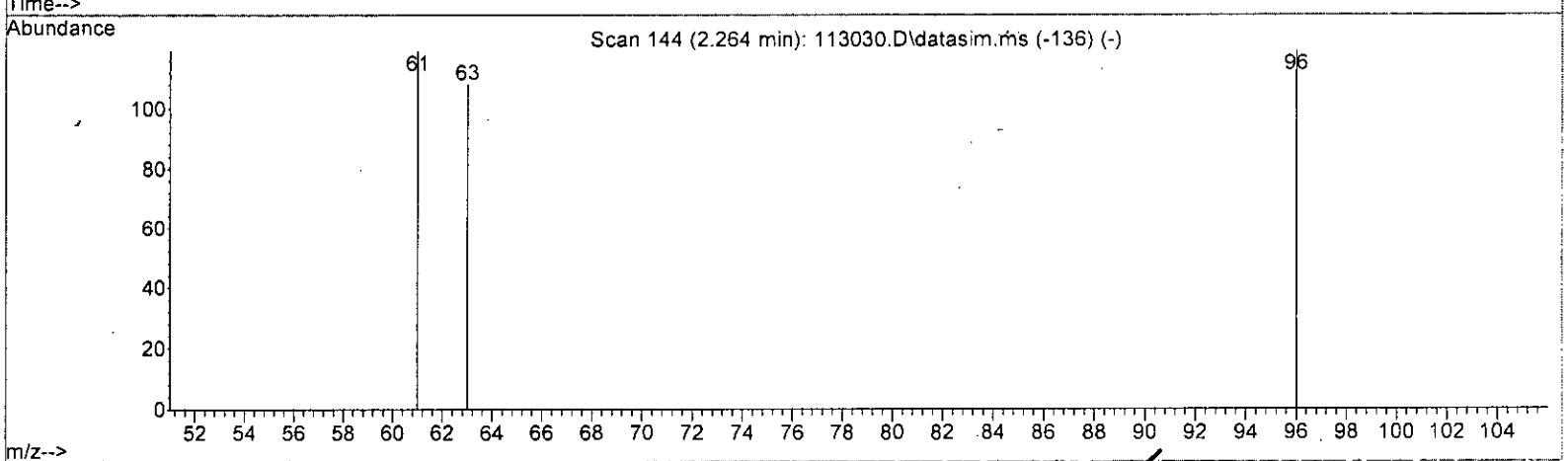
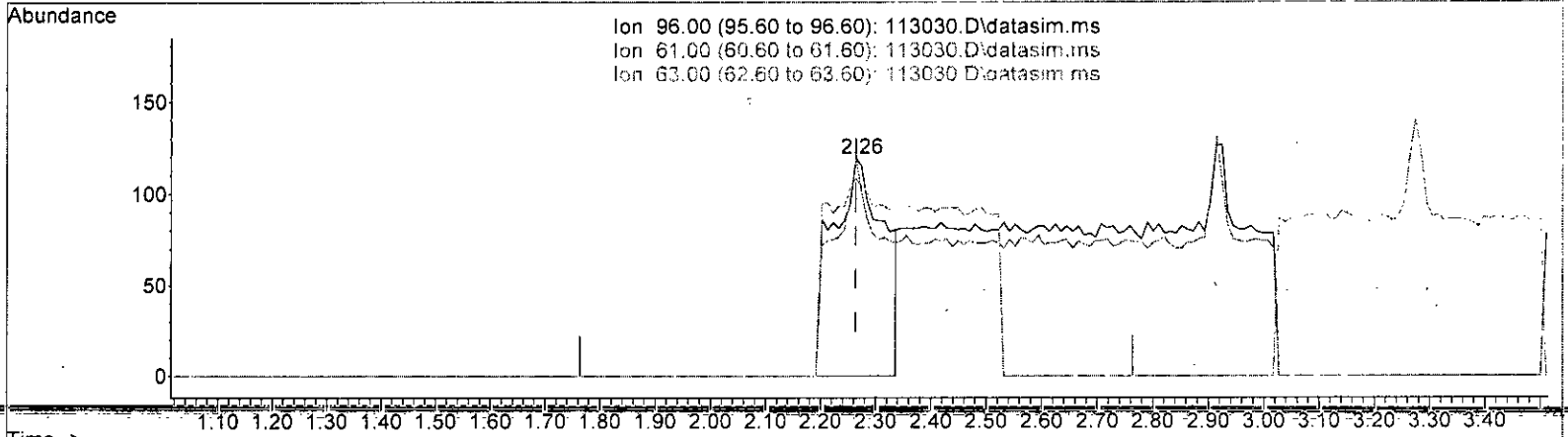
1.338min (+ 0.010) 0.019 ppb m

response	95	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	100.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

*m 12.1*

(12) 1,1-Dichloroethene (TMP)

2.264min (-0.000) 0.229 ppb

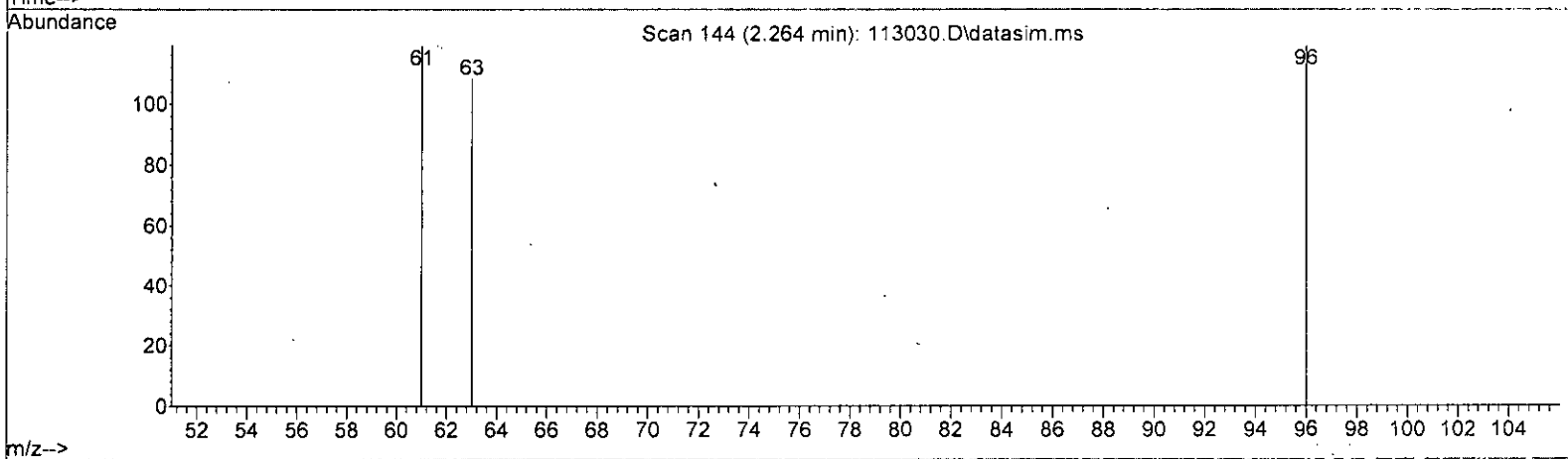
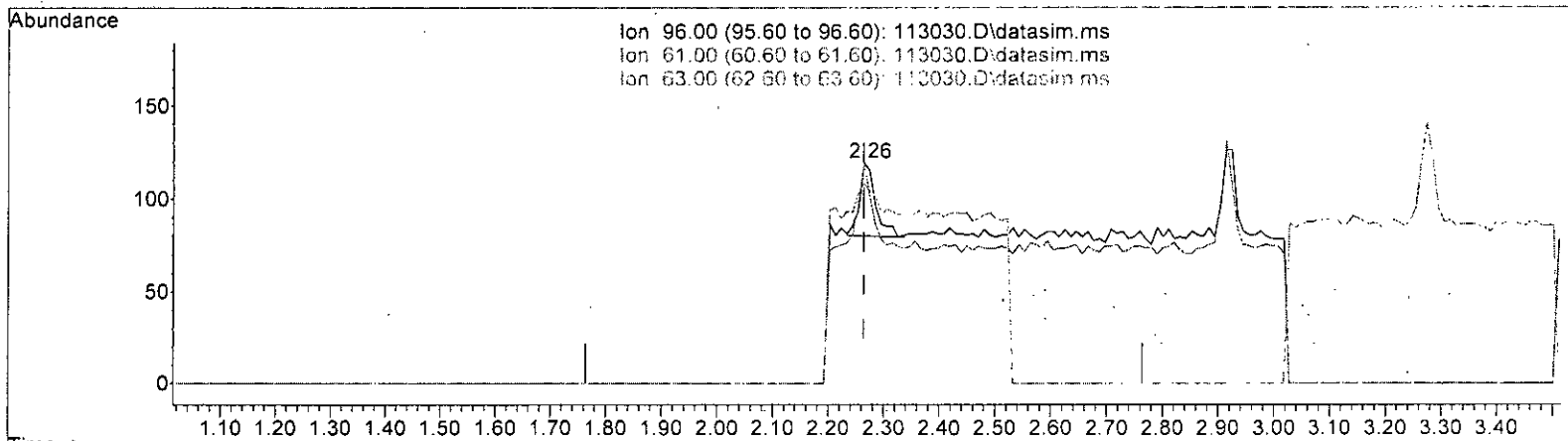
response 775

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	100.00
63.00	41.10	90.76#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.264min (-0.000) 0.024 ppb m

response 80

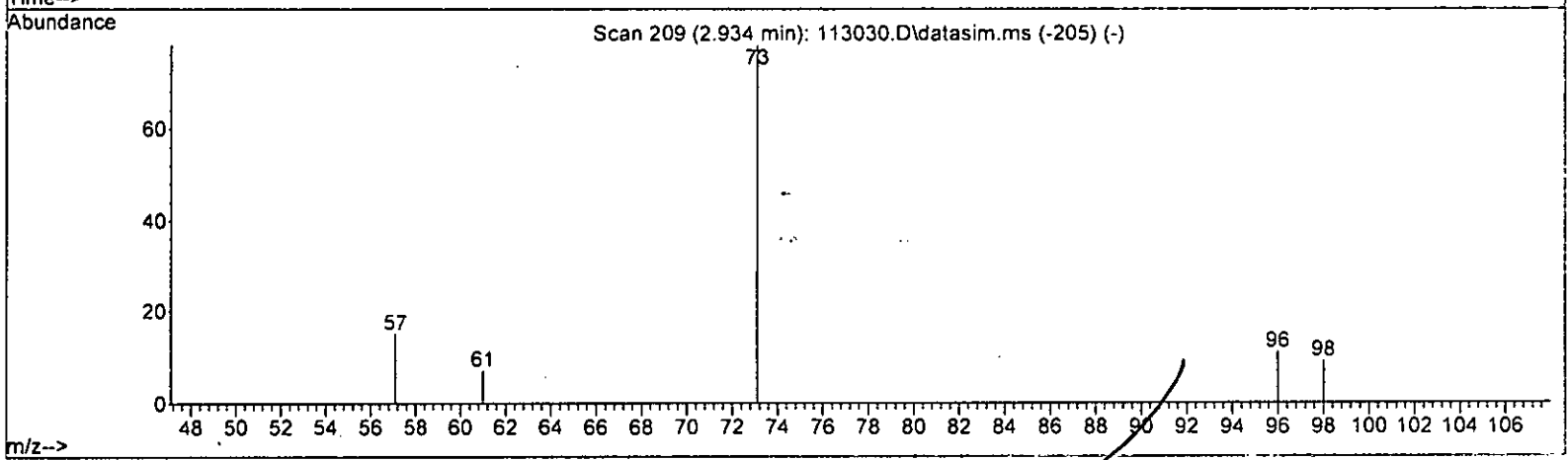
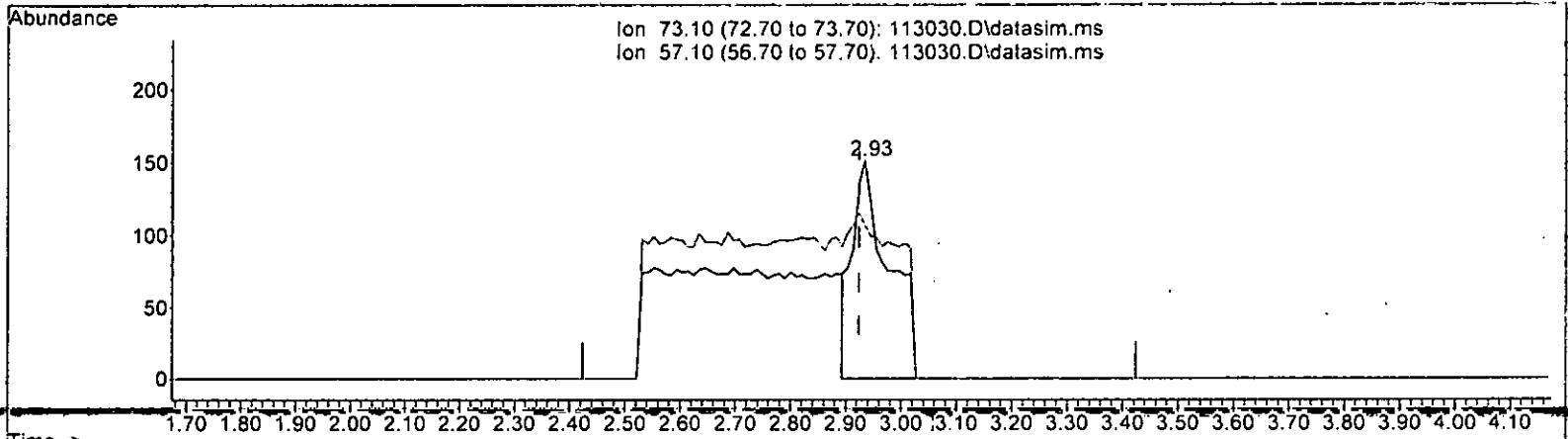
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	100.00
63.00	41.10	90.76#
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

m 12.1

(16) Methyl t-butyl ether (MTBE) (TMP)

2.934min (+ 0.010) 0.085 ppb

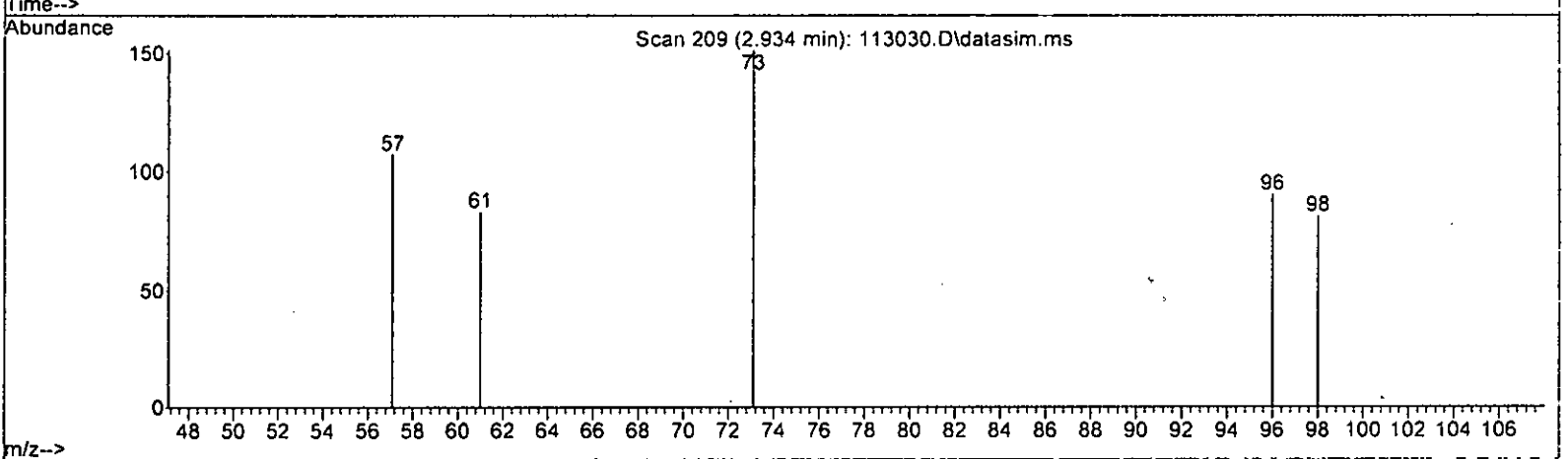
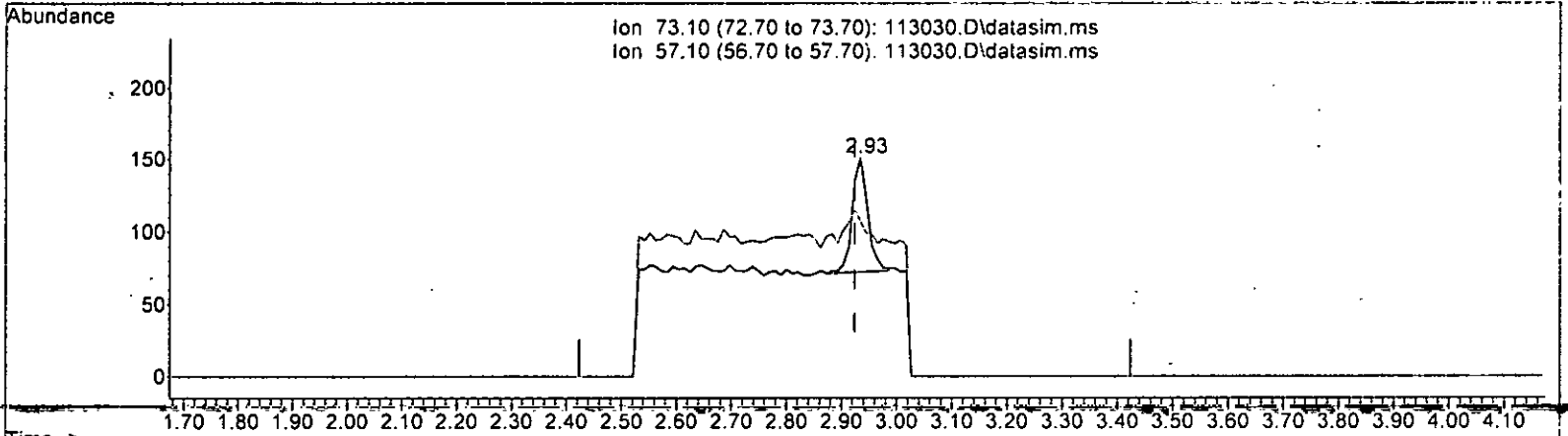
response	691	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	70.86#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

*M 12.1*

(16) Methyl t-butyl ether (MTBE) (TMP)

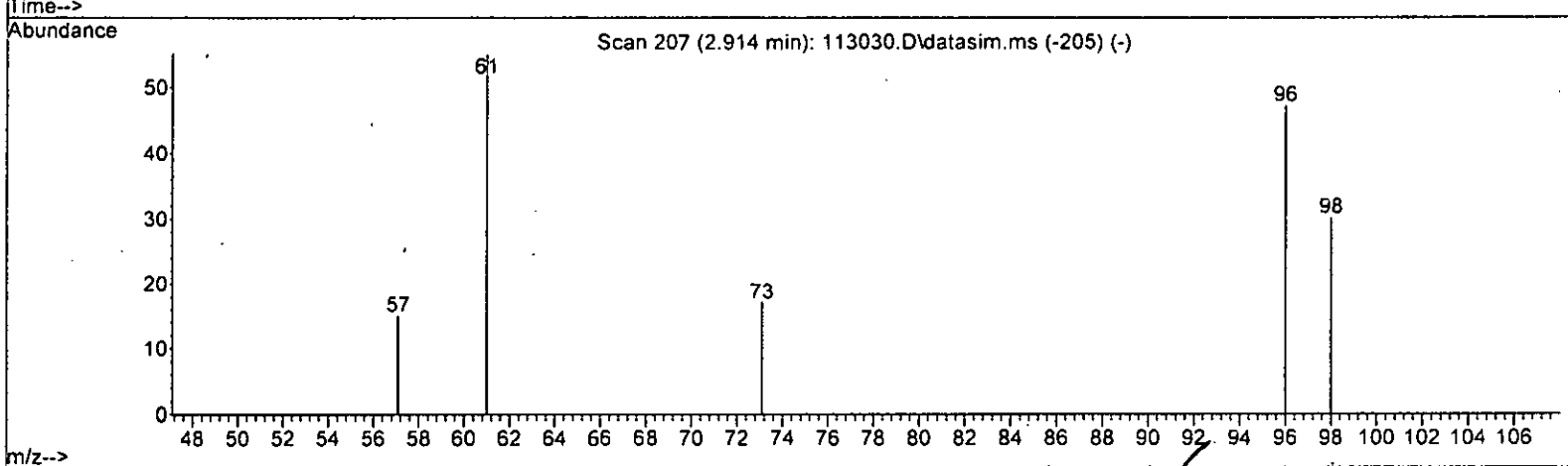
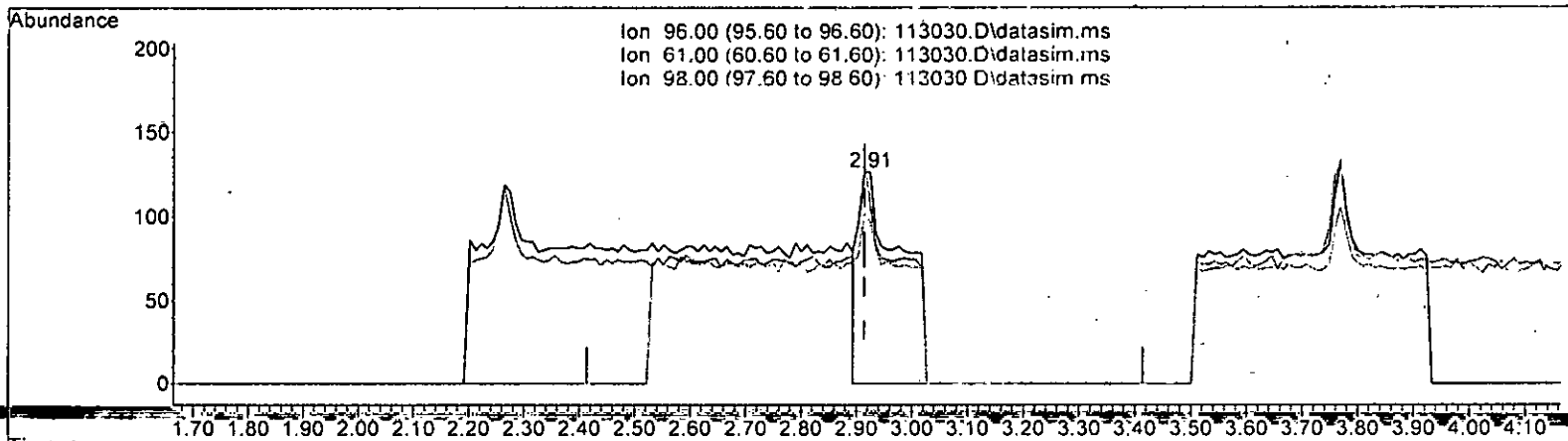
2.934min (+ 0.010) 0.019 ppb m

response	154	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	70.86#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.914min (-0.000) 0.178 ppb

response 666

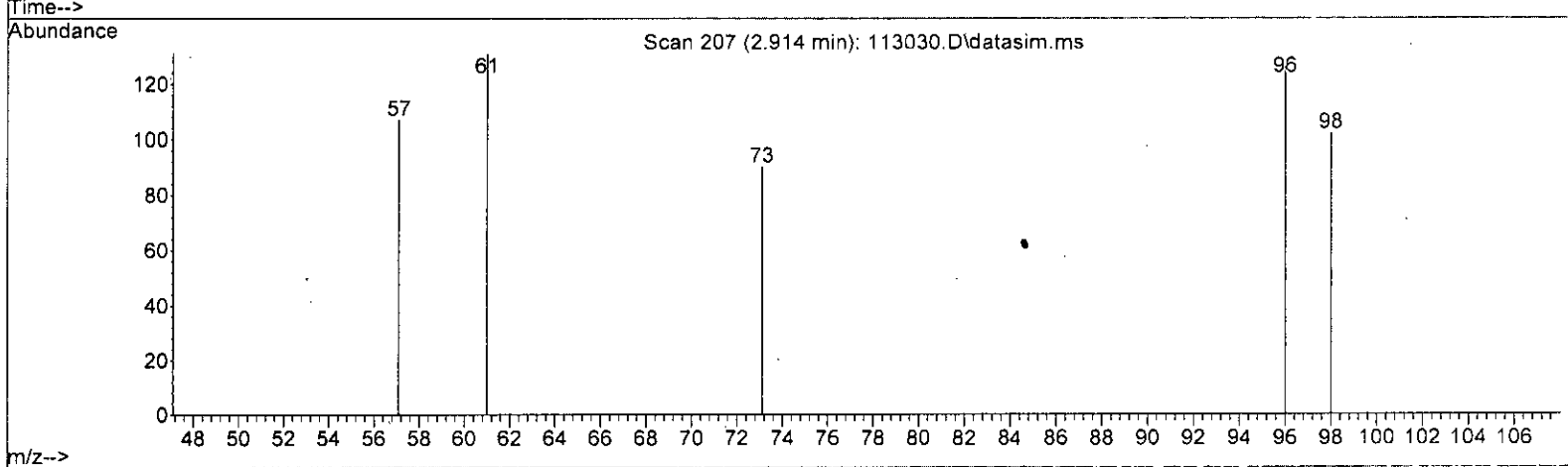
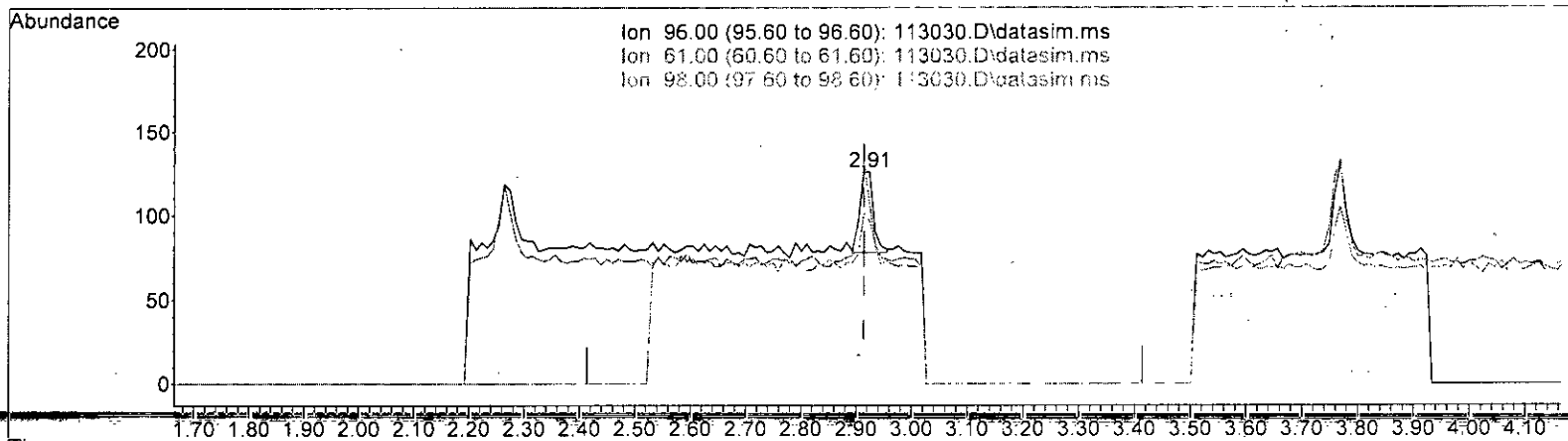
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	103.97
98.00	62.70	80.95
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *m* 12.1

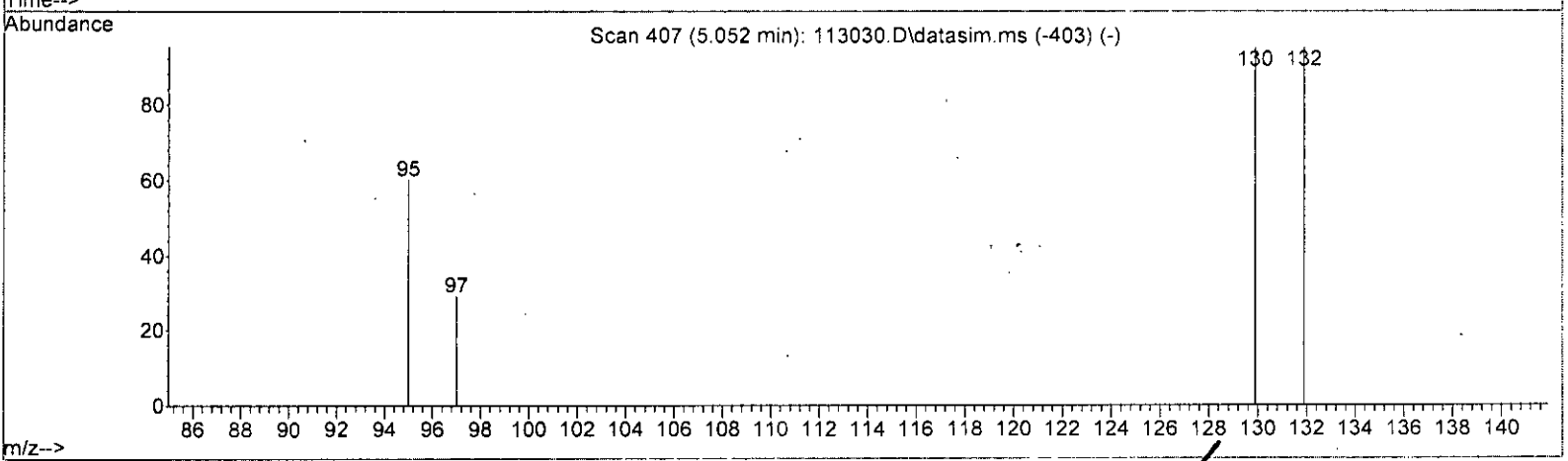
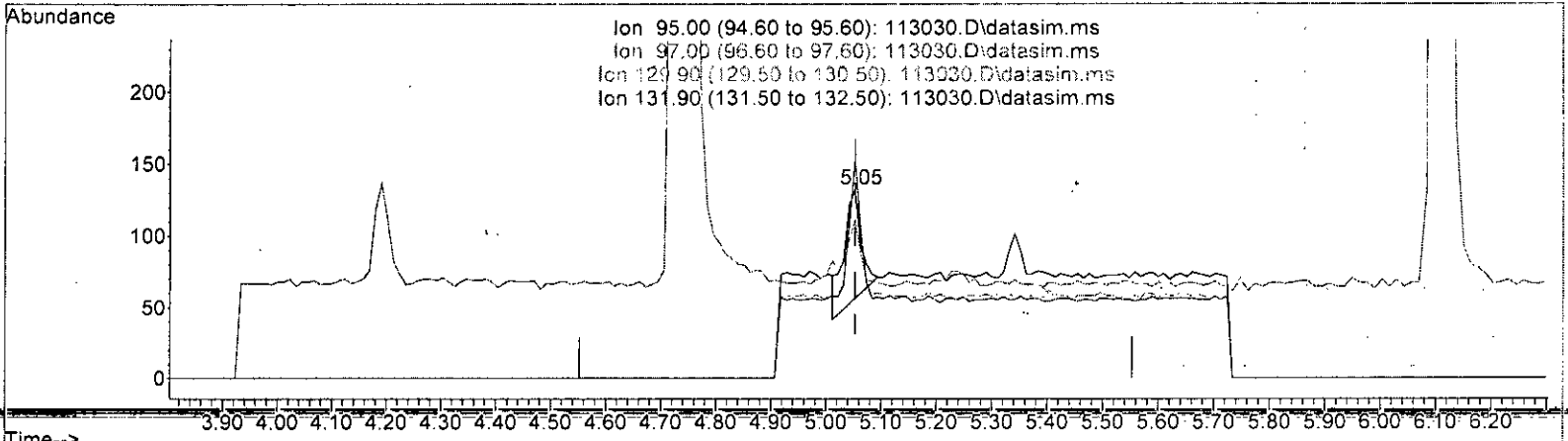
2.914min (-0.000) 0.022 ppb m

response	82	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	103.97
98.00	62.70	80.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(32) Trichloroethene (TMP)

5.052min (-0.001) 0.042 ppb

response 172

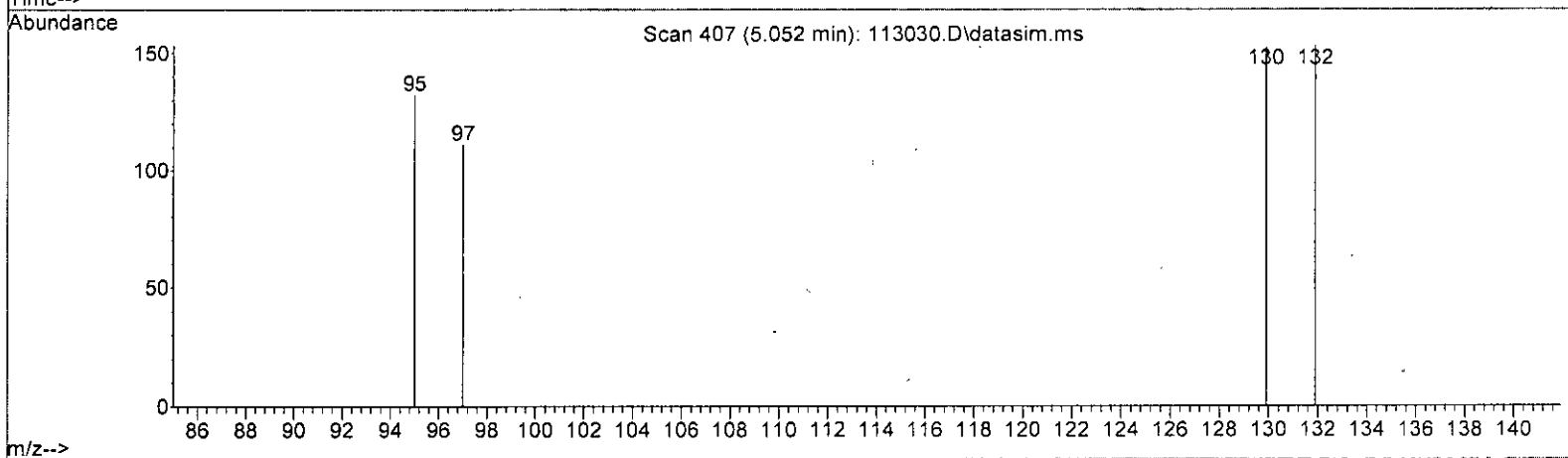
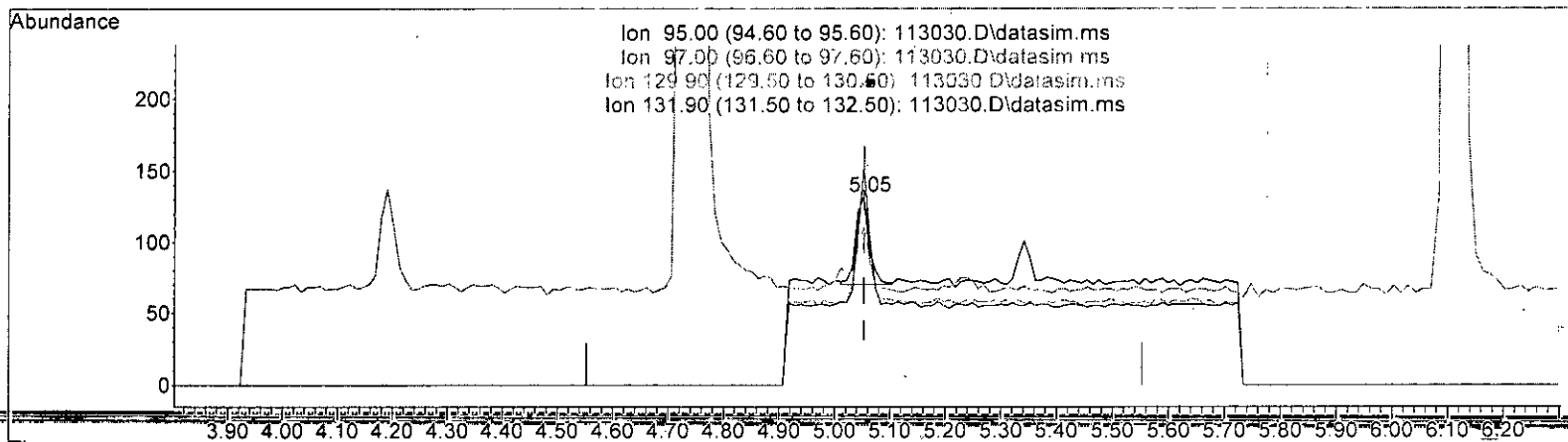
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	72.13
129.90	161.00	155.74
131.90	160.10	157.38

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(32) Trichloroethene (TMP)

5.052min (-0.001) 0.025 ppb m

response 103

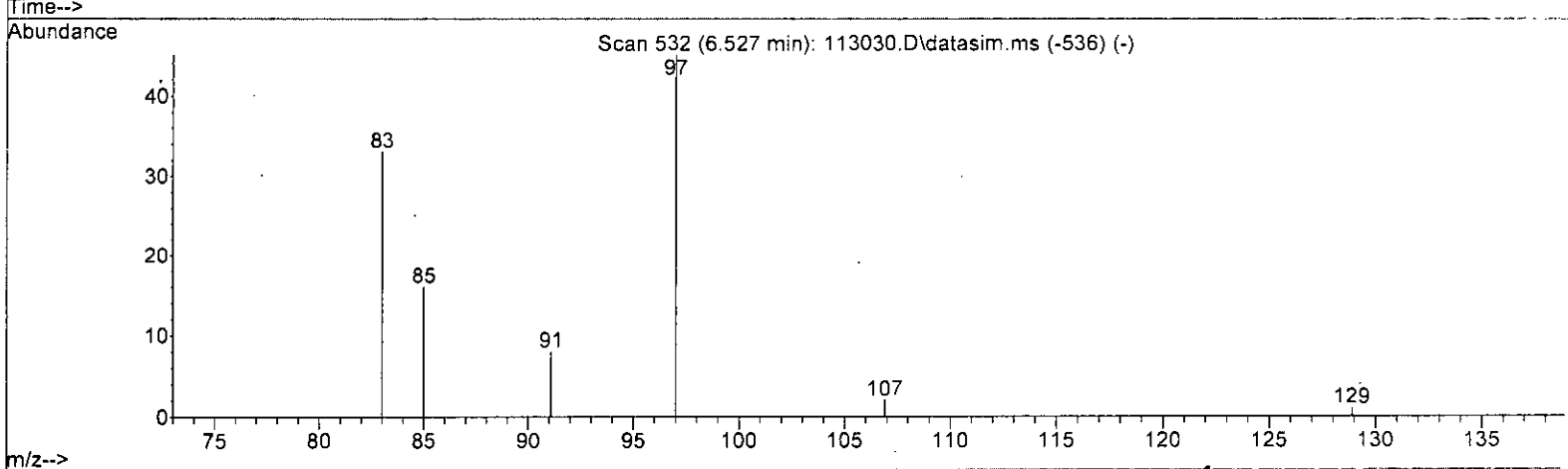
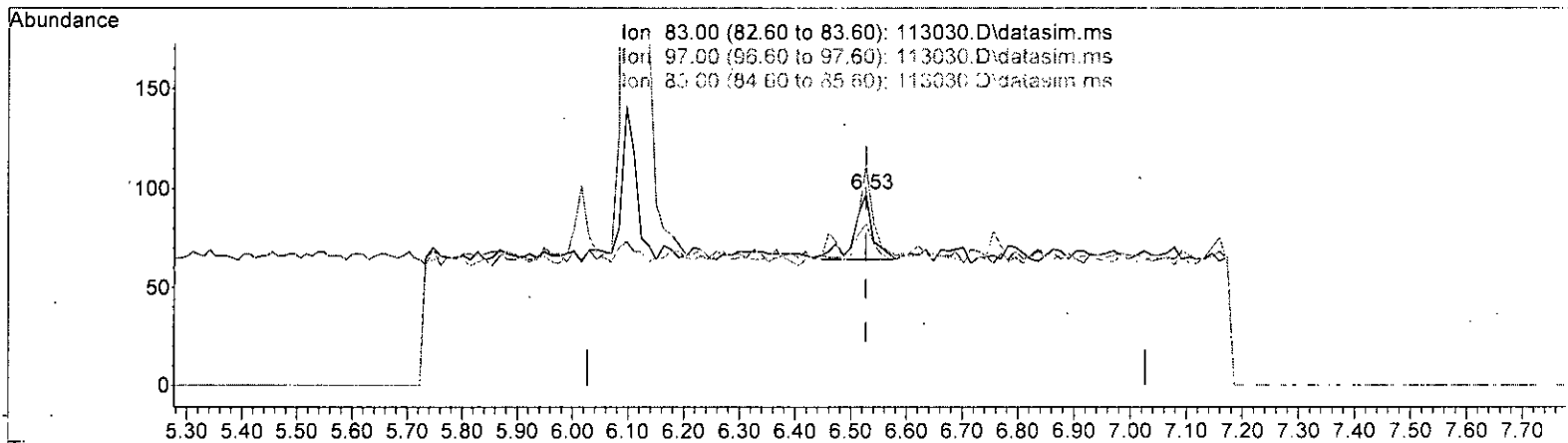
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	84.09
129.90	161.00	115.15#
131.90	160.10	115.91#

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(42) 1,1,2-Trichloroethane (TMP)

6.527min (-0.000) 0.027 ppb

response 77

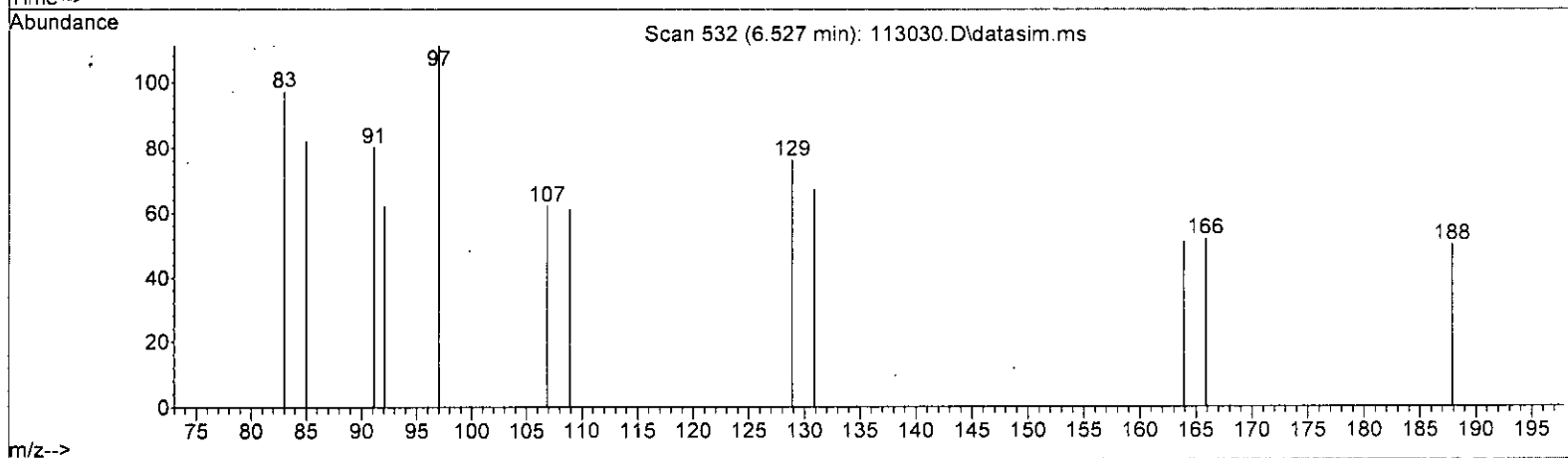
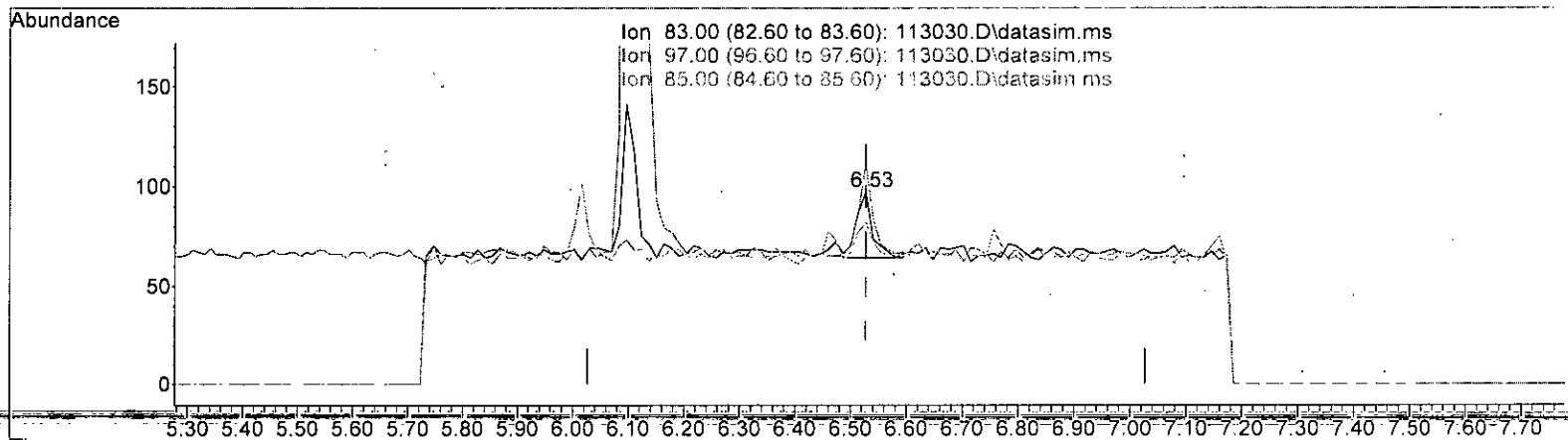
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	151.00	142.42
85.00	68.80	54.55
0.00	0.00	0.00

M12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

*m 12.1*

(42) 1,1,2-Trichloroethane (TMP)

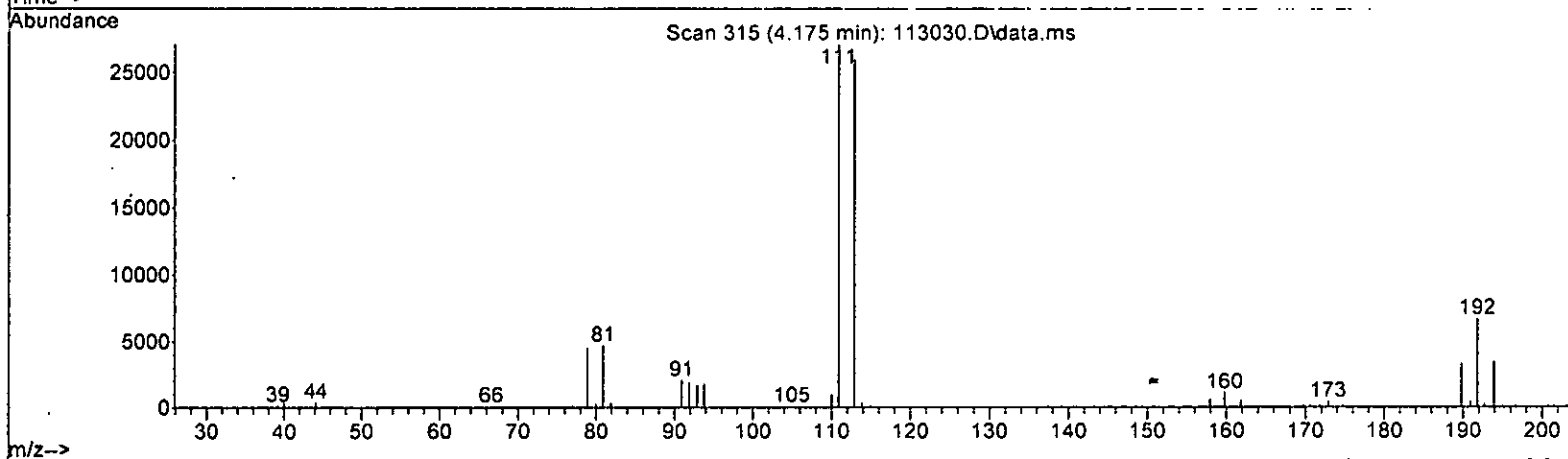
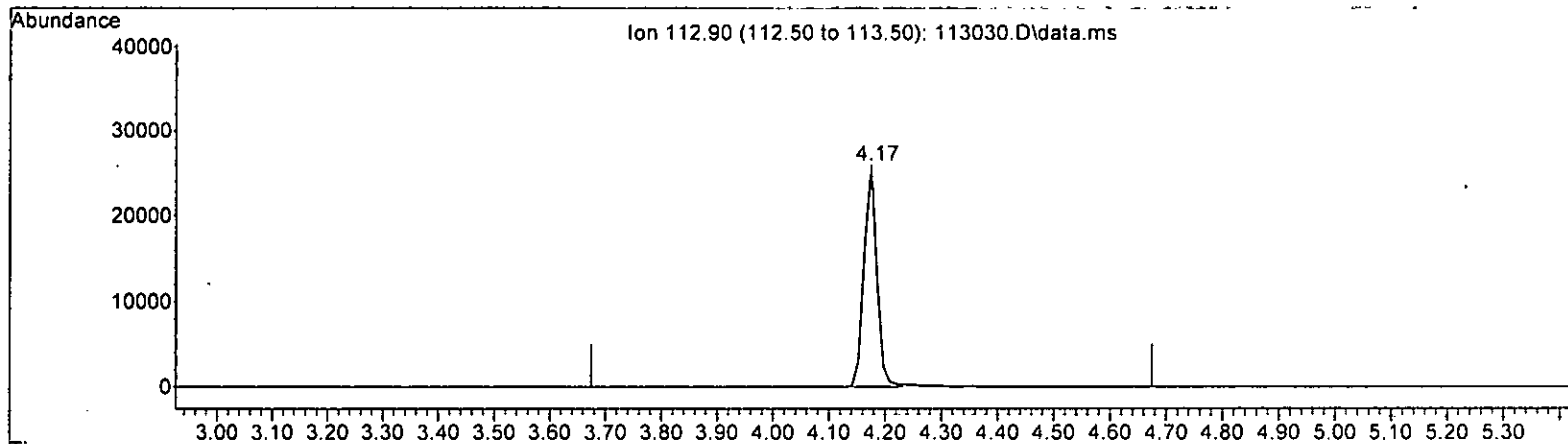
6.527min (-0.000) 0.022 ppb m

response	66	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	151.00	114.43#
85.00	68.80	84.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(3) Dibromofluoromethane (S)

4.175min (-0.000) 9.509 ppb m

response 41276

Ion	Exp%	Act%
112.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*accidental  
deletion  
m  
12.1*



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	136255	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	113476	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	70996	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	0.00	113	0d	0.000	ppb	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	0.00%#	
30) 1,2-Dichloroethane-d4	4.45	102	8431	10.363	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	103.60%	
35) Toluene-d8	6.11	98	117213	9.570	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	95.70%	
57) 4-Bromofluorobenzene	8.51	95	43877	10.199	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	102.00%	

*← 9.509 ppm  
 95.09% m 12.1*

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.	d	
4) Dichlorodifluoromethane	0.00		0	N.D.	d	
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.34	62	95m	0.019	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.	d	
9) Trichlorofluoromethane	0.00		0	N.D.	d	
10) 2-Propanol	0.00		0	N.D.	d	
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.26	96	80m	0.024	ppb	
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
16] Methyl t-butyl ether (...)	2.93	73	154m	0.019	ppb	
17] trans-1,2-Dichloroethene	2.91	96	82m	0.022	ppb	
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d	
19) 1,1-Dichloroethane	0.00		0	N.D.	d	
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d	
21) 2,2-Dichloropropane	0.00		0	N.D.	d	
22] cis-1,2-Dichloroethene	3.77	96	87	0.022	ppb	96
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26] 1,2-Dichloroethane (EDC)	4.52	62	162	0.020	ppb	97
27] 1,1,1-Trichloroethane	4.19	97	133	0.021	ppb	88
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.	d	
31] Benzene	4.50	78	289	0.013	ppb	99
32] Trichloroethene	5.05	95	103m	0.025	ppb	
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.	d	

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

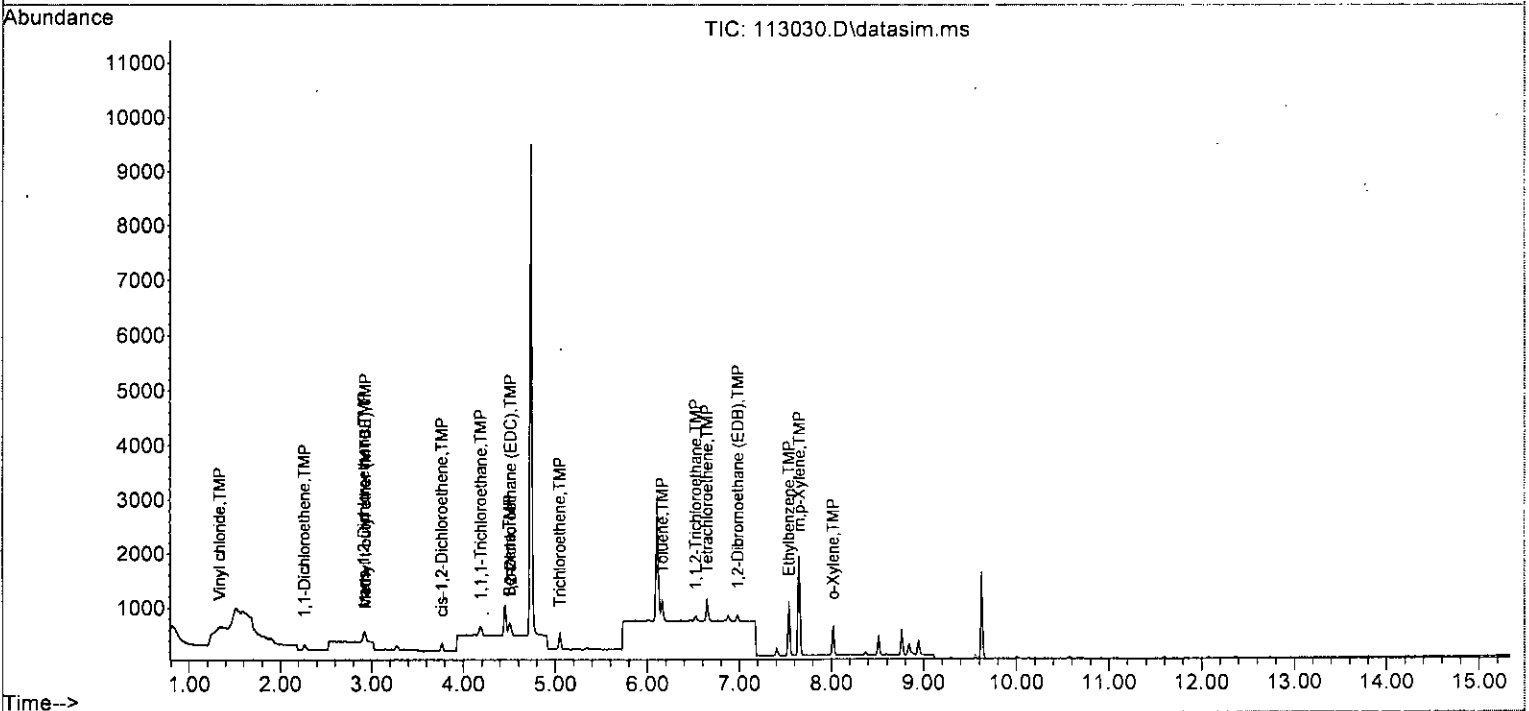
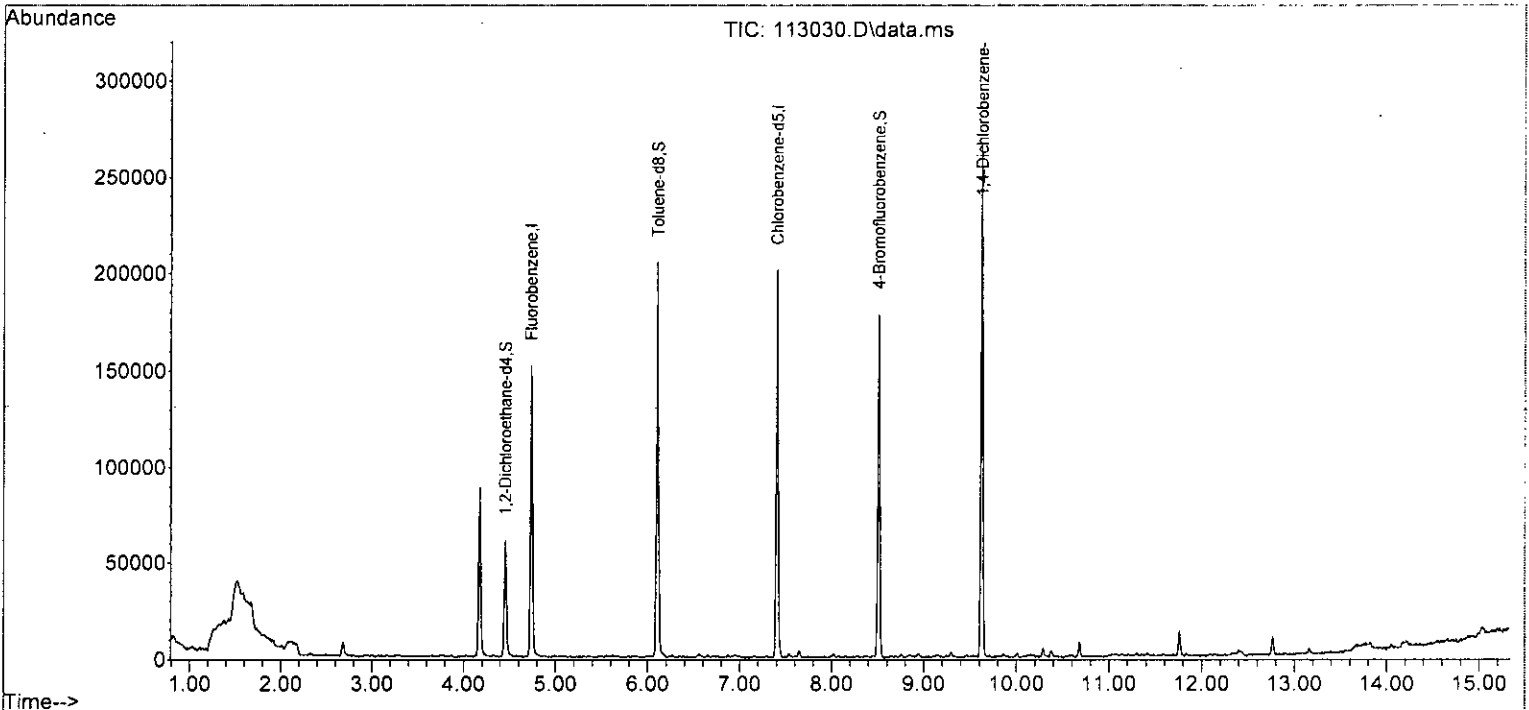
Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D. d	
40] Toluene	6.16	92	211	0.020	ppb	96
41) trans-1,3-Dichloropropene	0.00		0		N.D. d	
42] 1,1,2-Trichloroethane	6.53	83	66m	0.022	ppb	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D. d	
45] Tetrachloroethene	6.65	164	143	0.023	ppb	96
46) Dibromochloromethane	0.00		0		N.D. d	
47] 1,2-Dibromoethane (EDB)	6.98	107	110	0.018	ppb	97
48) Chlorobenzene	0.00		0		N.D. d	
49] Ethylbenzene	7.54	91	983	0.021	ppb	100
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D. d	
51] m,p-Xylene	7.65	106	1003	0.041	ppb	98
52] o-Xylene	8.02	106	268	0.020	ppb	97
53) Styrene	0.00		0		N.D. d	
54) Isopropylbenzene	0.00		0		N.D. d	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D. d	
59) Bromobenzene	0.00		0		N.D. d	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D. d	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	0.00		0		N.D. d	
64) 4-Chlorotoluene	0.00		0		N.D. d	
65) tert-Butylbenzene	0.00		0		N.D. d	
66) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
67) sec-Butylbenzene	0.00		0		N.D. d	
68) p-Isopropyltoluene	0.00		0		N.D. d	
69) 1,3-Dichlorobenzene	0.00		0		N.D. d	
70) 1,4-Dichlorobenzene	0.00		0		N.D. d	
71) 1,2-Dichlorobenzene	0.00		0		N.D. d	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D. d	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D. d	
74) Hexachlorobutadiene	0.00		0		N.D. d	
75) Naphthalene	0.00		0		N.D. d	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-2.33#
3 S Dibromofluoromethane	10.000	0.000	100.0#	0	-4.17#
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP Vinyl chloride	0.020	0.019	5.0	104	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.83#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.33#
11 TMP Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP 1,1-Dichloroethene	0.020	0.024	-20.0	104	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.16#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.020	0.019	5.0	94	0.01
17 TMP trans-1,2-Dichloroethene	0.020	0.022	-10.0	104	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP 1,1-Dichloroethane	0.020	0.000	100.0#	0	-3.27#
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP cis-1,2-Dichloroethene	0.020	0.022	-10.0	100	0.00
23 TMP Chloroform	-1.000	0.000	0.0	0	-4.04#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.61#
26 TMP 1,2-Dichloroethane (EDC)	0.020	0.020	0.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.020	0.021	-5.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.33#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.33#
30 S 1,2-Dichloroethane-d4	10.000	10.363	-3.6	100	0.00
31 TMP Benzene	0.020	0.013	35.0#	100	0.00
32 TMP Trichloroethene	0.020	0.025	-25.0#	134	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.24#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.48#
35 S Toluene-d8	10.000	9.570	4.3	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.88#
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.020	0.020	0.0	100	0.00
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP 1,1,2-Trichloroethane	0.020	0.022	-10.0	106	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45 TMP Tetrachloroethene	0.020	0.023	-15.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.020	0.018	10.0	100	0.01
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49 TMP Ethylbenzene	0.020	0.021	-5.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.51#
51 TMP m,p-Xylene	0.040	0.041	-2.5	100	0.00
52 TMP o-Xylene	0.020	0.020	0.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.37#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.20#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	10.000	10.199	-2.0	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.77#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.94#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.66#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.70#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.95#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.30#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.46#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.56#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.01#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.83#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.08#

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-2.33#
3 S Dibromofluoromethane	0.319	0.000	100.0#	0#	-4.17#
4 TMP Dichlorodifluoromethane	0.582	0.000#	100.0#	0#	-1.11#
5 TMP Chloromethane	0.386	0.000#	100.0#	0#	-1.25#
6 TMP Vinyl chloride	0.373	0.349	6.4	104	0.00
7 TMP Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.200	0.000#	100.0#	0#	-1.64#
9 TMP Trichlorofluoromethane	1.015	0.000#	100.0#	0#	-1.83#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.33#
11 TMP Acetone	0.022	0.000#	100.0#	0#	-2.32#
12 TMP 1,1-Dichloroethene	0.248	0.294	-18.5	104	0.00
13 TMP Hexane	0.244	0.000#	100.0#	0#	-3.16#
14 TMP Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.022	0.000#	100.0#	0#	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.565	5.2	94	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.301	-9.9	104	0.00
18 TMP Diisopropyl ether (DIPE)	0.533	0.000#	100.0#	0#	-3.34#
19 TMP 1,1-Dichloroethane	0.341	0.000#	100.0#	0#	-3.27#
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.000#	100.0#	0#	-3.65#
21 TMP 2,2-Dichloropropane	0.297	0.000#	100.0#	0#	-3.76#
22 TMP cis-1,2-Dichloroethene	0.296	0.319	-7.8	100	0.00
23 TMP Chloroform	0.441	0.000#	100.0#	0#	-4.04#
24 TMP 2-Butanone (MEK)	0.102	0.000#	100.0#	0#	-3.78#
25 TMP t-Amyl methyl ether (TAME)	0.551	0.000#	100.0#	0#	-4.61#
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.594	-77.8#	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.488	-4.3	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.000#	100.0#	0#	-4.33#
29 TMP Carbon tetrachloride	0.497	0.000#	100.0#	0#	-4.33#
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.849	1.061	-25.0#	100	0.00
32 TMP Trichloroethene	0.304	0.378	-24.3#	134	0.00
33 TMP 1,2-Dichloropropane	0.189	0.000#	100.0#	0#	-5.24#
34 TMP Bromodichloromethane	0.316	0.000#	100.0#	0#	-5.48#
35 S Toluene-d8	0.899	0.860	4.3	100	0.00
36 TMP Dibromomethane	0.173	0.000#	100.0#	0#	-5.34#
37 TMP 4-Methyl-2-pentanone	0.040	0.000#	100.0#	0#	-6.01#
38 TMP cis-1,3-Dichloropropene	0.329	0.000#	100.0#	0#	-5.88#
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.930	-29.3#	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.000#	100.0#	0#	-6.36#
42 TMP 1,1,2-Trichloroethane	0.204	0.291	-42.6#	106	0.00
43 TMP 2-Hexanone	0.142	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.443	0.630	-42.2#	100	0.00
46 TMP Dibromochloromethane	0.425	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.485	-44.8#	100	0.01
48 TMP Chlorobenzene	0.943	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.560	4.331	-177.6#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.000#	100.0#	0#	-7.51#
51 TMP m,p-Xylene	0.718	2.210	-207.8#	100	0.00
52 TMP o-Xylene	0.611	1.181	-93.3#	100	0.00
53 TMP Styrene	0.848	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.353	0.000#	100.0#	0#	-8.37#
55 TMP Bromoform	0.302	0.000#	100.0#	0#	-8.20#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.618	-2.0	100	0.00
58 TMP n-Propylbenzene	2.257	0.000#	100.0#	0#	-8.77#
59 TMP Bromobenzene	0.821	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	1.836	0.000#	100.0#	0#	-8.94#
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.000#	100.0#	0#	-8.66#
62 TMP 1,2,3-Trichloropropane	0.337	0.000#	100.0#	0#	-8.70#
63 TMP 2-Chlorotoluene	1.282	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	1.552	0.000#	100.0#	0#	-8.95#
65 TMP tert-Butylbenzene	1.946	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	1.975	0.000#	100.0#	0#	-9.30#
67 TMP sec-Butylbenzene	2.396	0.000#	100.0#	0#	-9.46#
68 TMP p-Isopropyltoluene	2.400	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.476	0.000#	100.0#	0#	-9.56#
70 TMP 1,4-Dichlorobenzene	1.456	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.422	0.000#	100.0#	0#	-10.01#
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.997	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.588	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	1.938	0.000#	100.0#	0#	-11.83#
76 TMP 1,2,3-Trichlorobenzene	0.789	0.000#	100.0#	0#	-12.08#

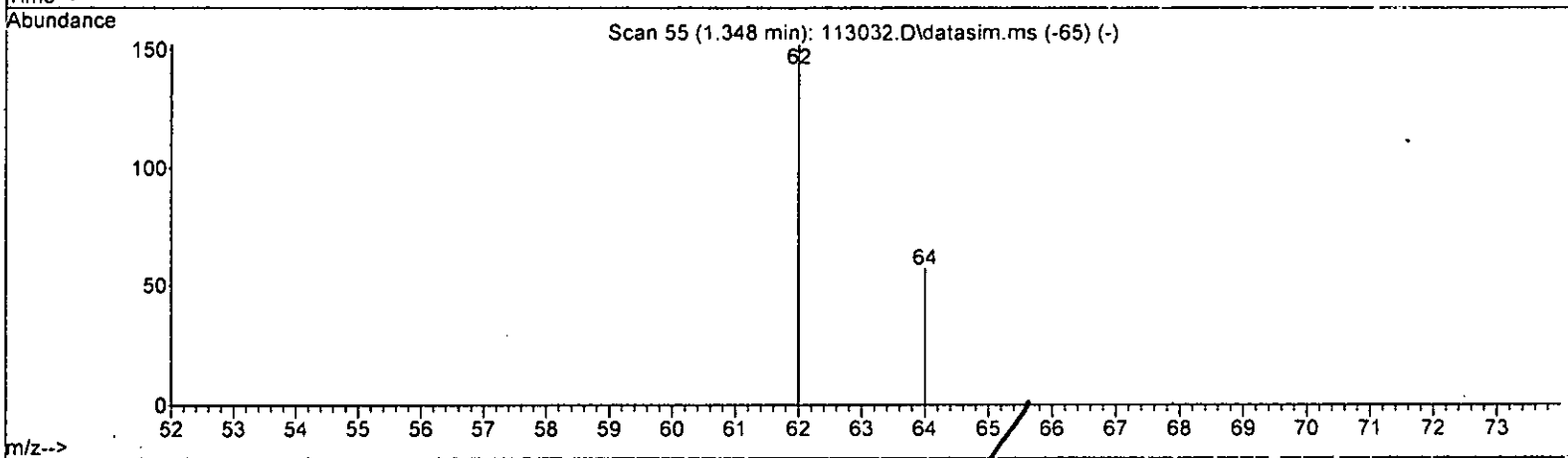
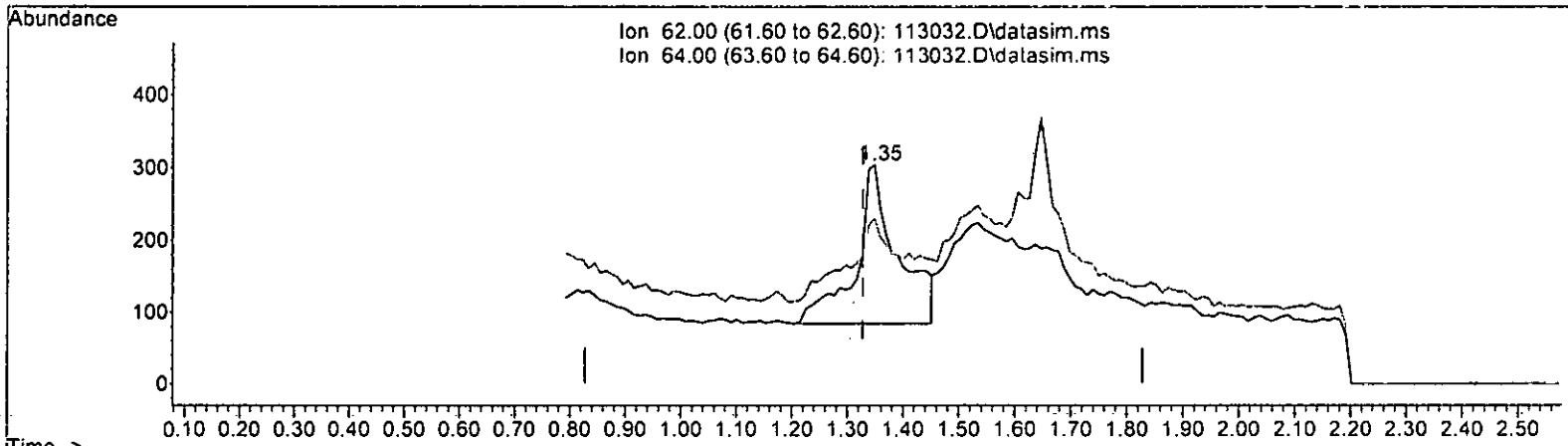
(#) = Out of Range

SPCC's out = 52 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

m 12.1

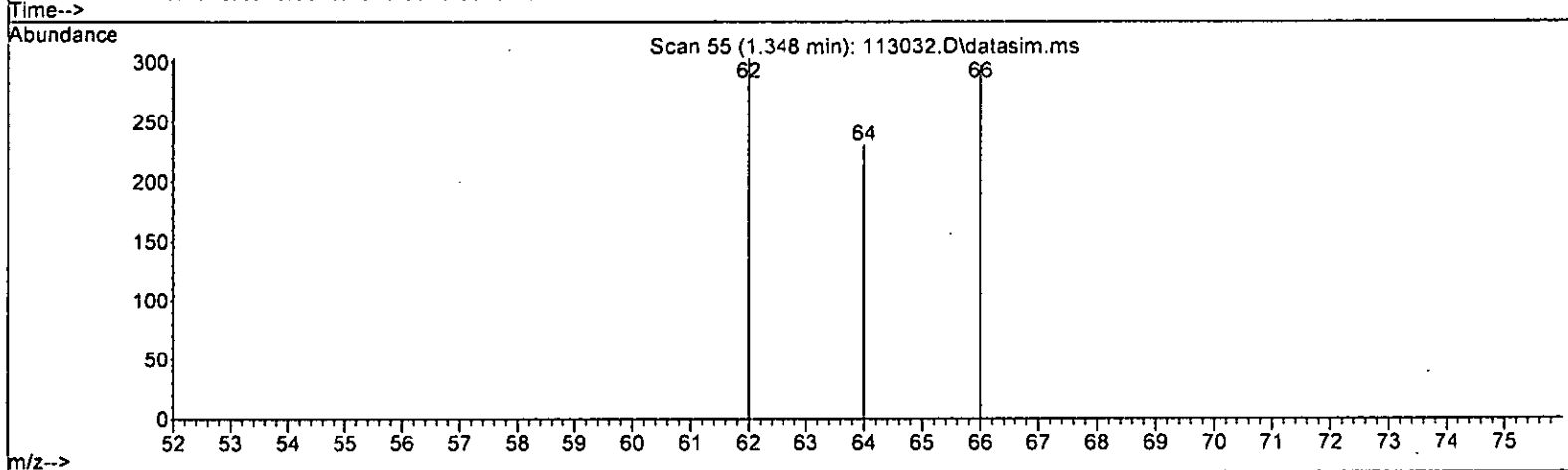
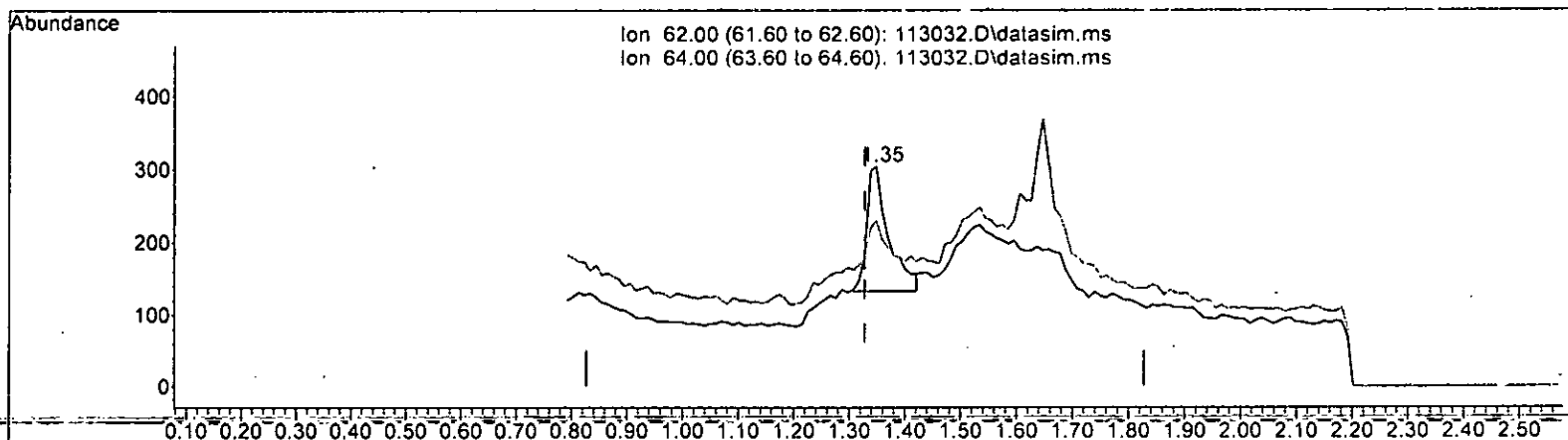
(6) Vinyl chloride (TMP)		
1.348min (+ 0.020)	0.222 ppb	
response	1138	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	52.51
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(6) Vinyl chloride (TMP) *m (2.)*

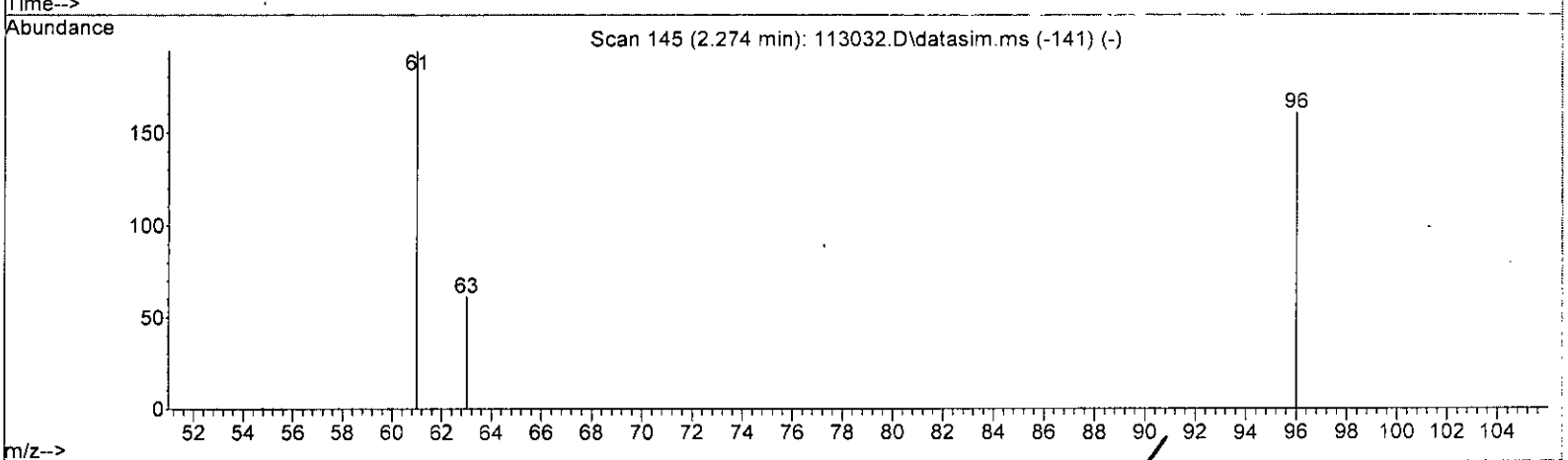
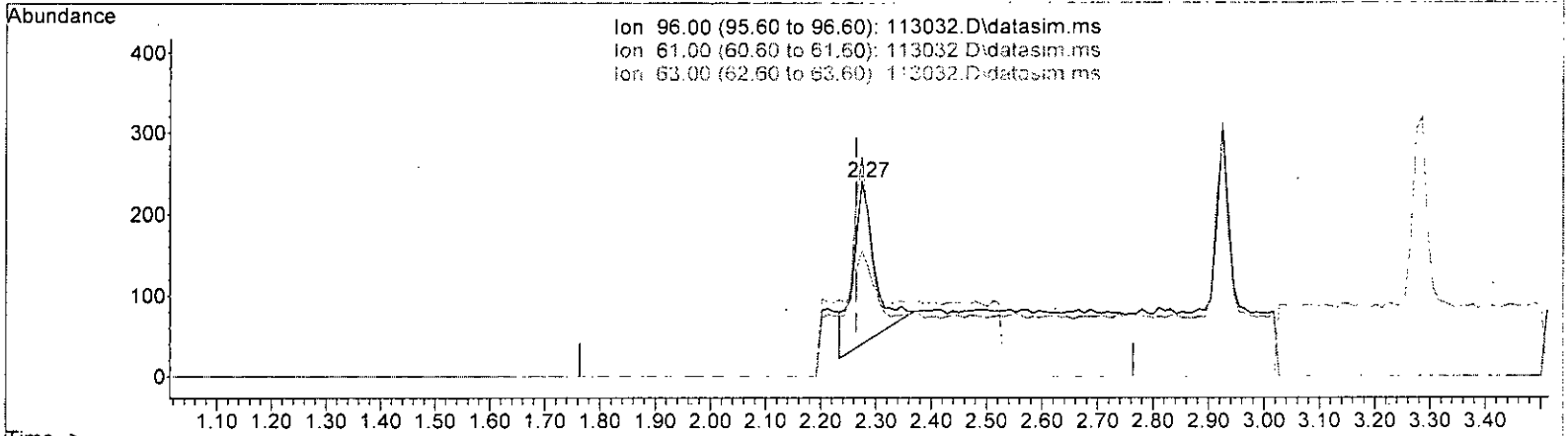
1.348min (+ 0.020) 0.092 ppb m

response	469	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	75.91#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.274min (+ 0.010) 0.158 ppb

response 536

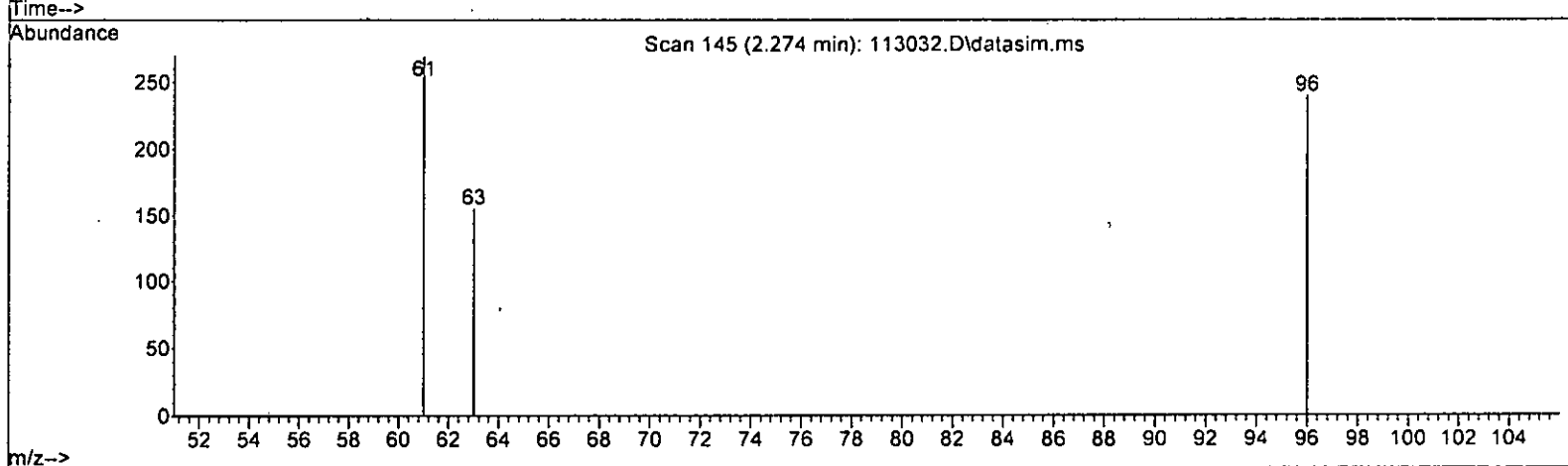
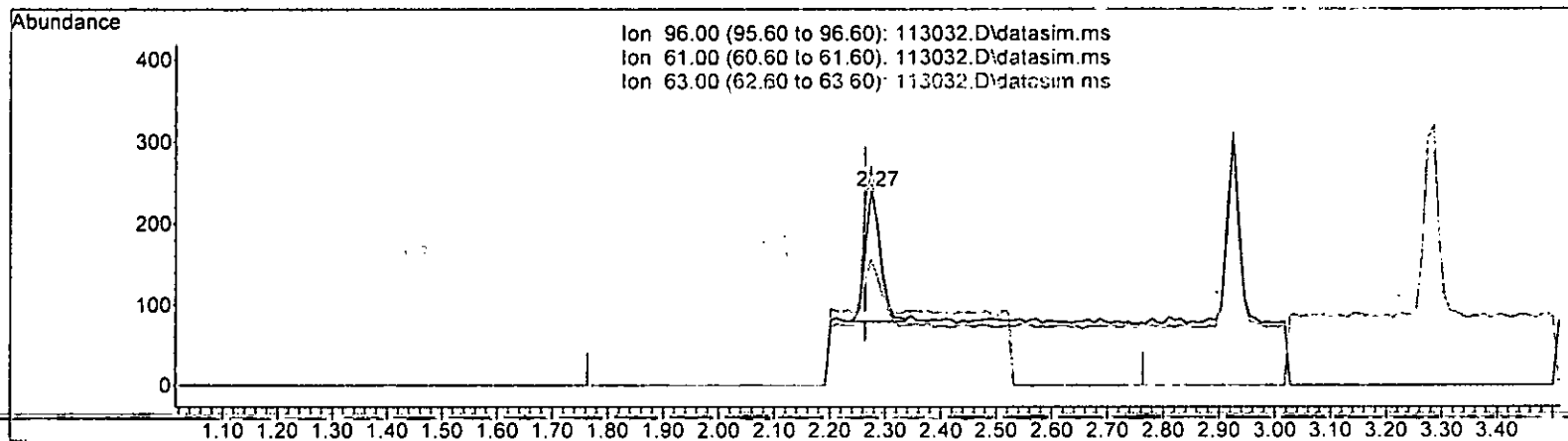
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	121.88
63.00	41.10	40.00
0.00	0.00	0.00

*m/z 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

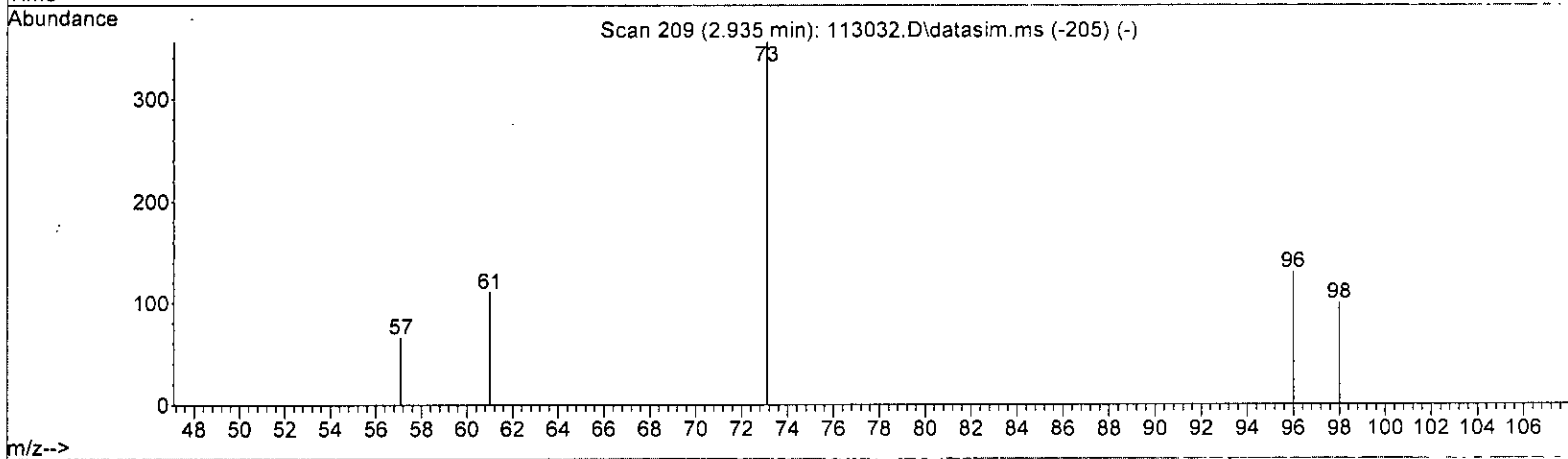
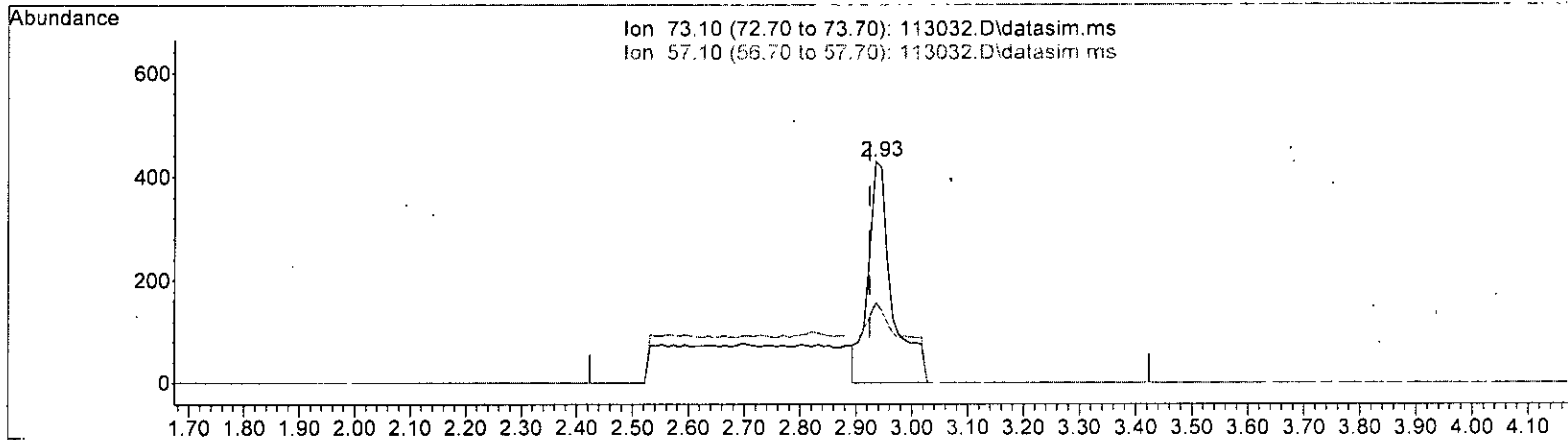
(12) 1,1-Dichloroethene (TMP) *m* 12.1  
 2.274min (+ 0.010) 0.089 ppb m  
 response 302

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	112.55
63.00	41.10	64.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.935min (+ 0.011) 0.156 ppb

response 1272

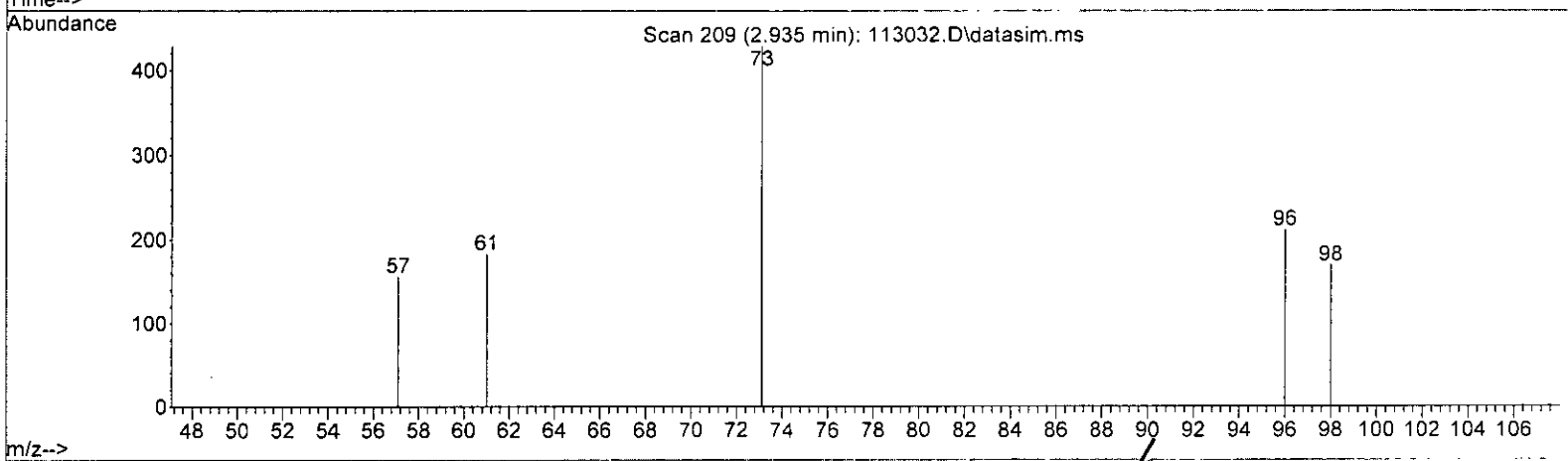
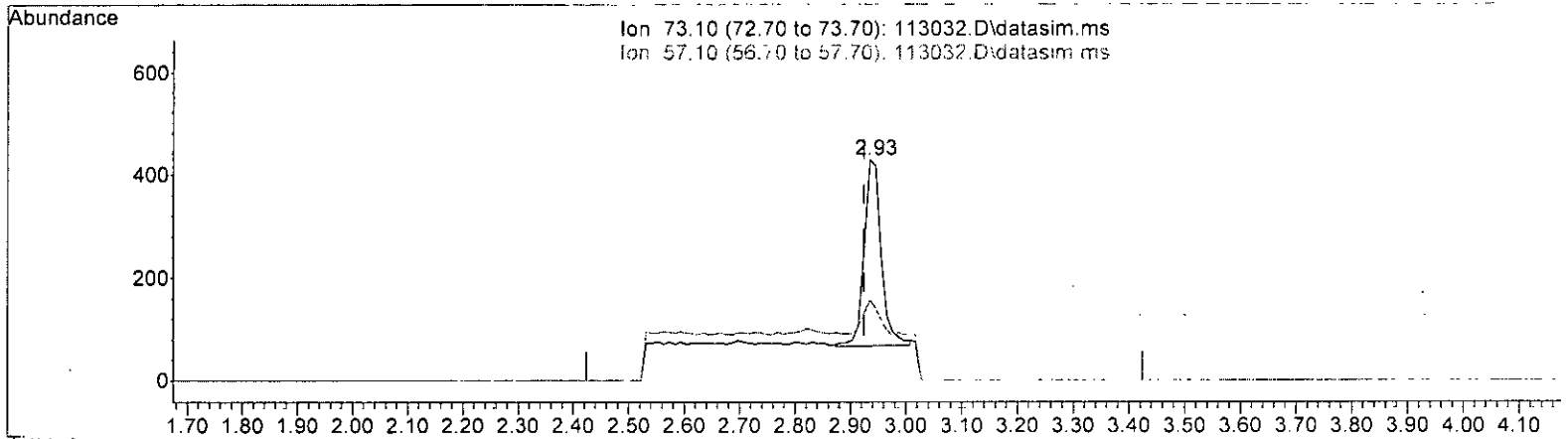
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	36.21
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms *✓*

(16) Methyl t-butyl ether (MTBE) (TMP) *M 12.1*

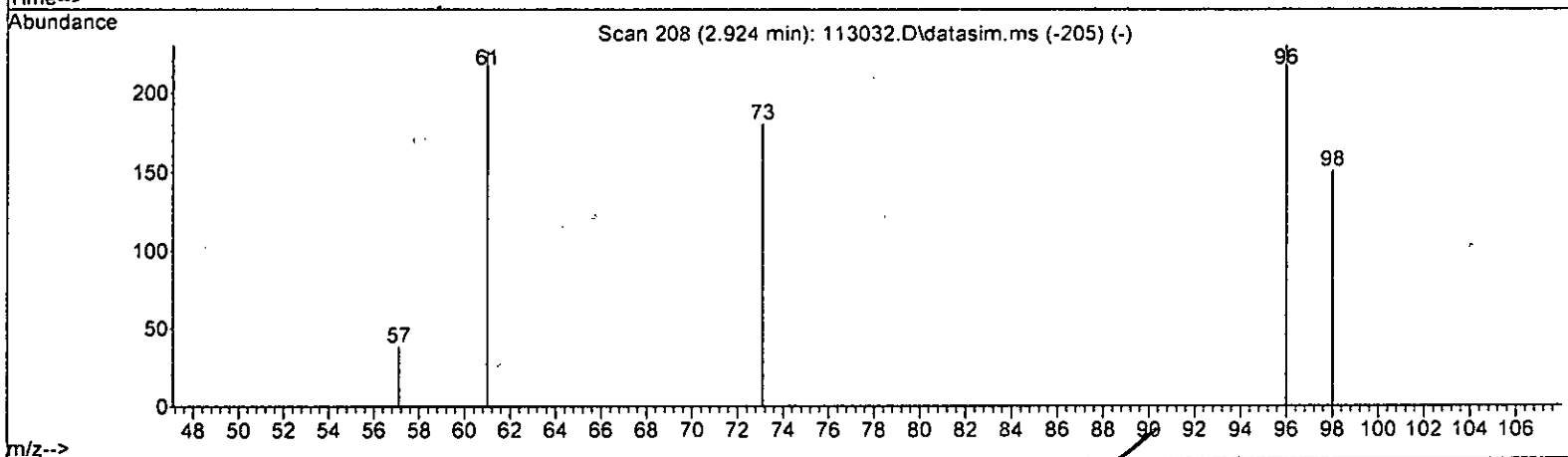
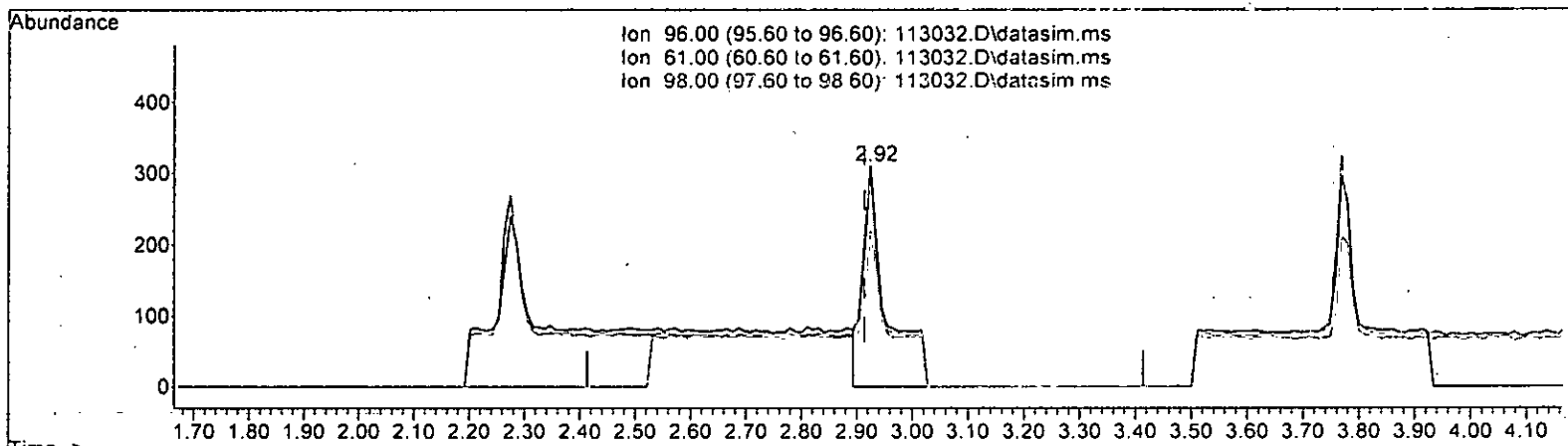
2.935min (+ 0.011) 0.095 ppb m

response	777
Ion	Exp% Act%
73.10	100.00 100.00
57.10	19.50 36.21
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

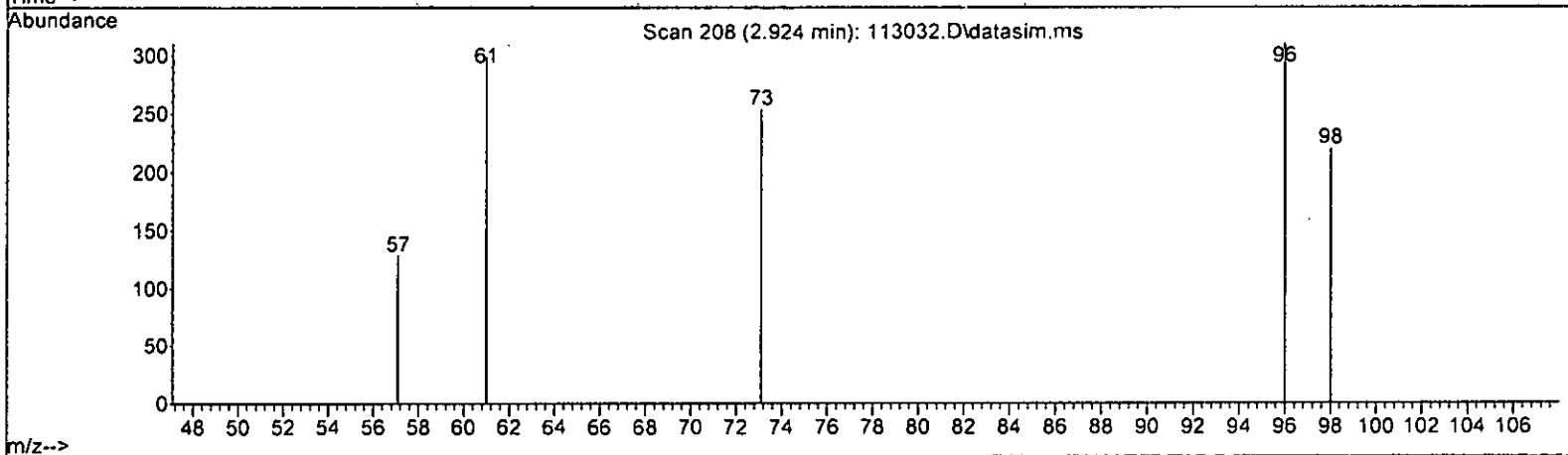
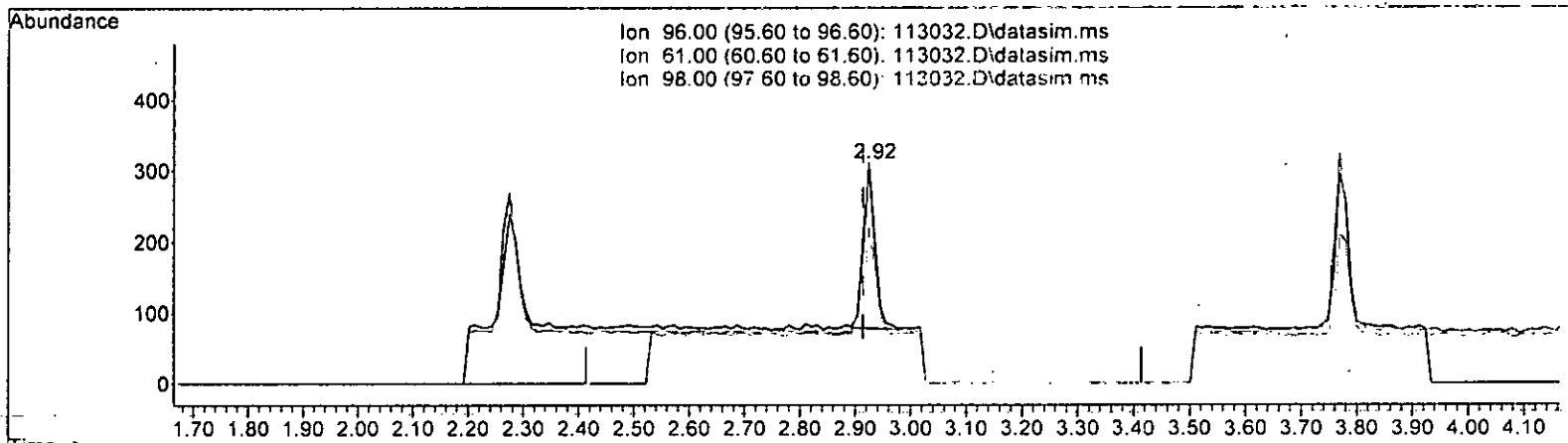
*m 121*

(17) trans-1,2-Dichloroethene (TMP)		
Retention Time	Concentration	Response
2.924min (+ 0.010)	0.241 ppb	908
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	96.13
98.00	62.70	70.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 0.089 ppb m

response 335

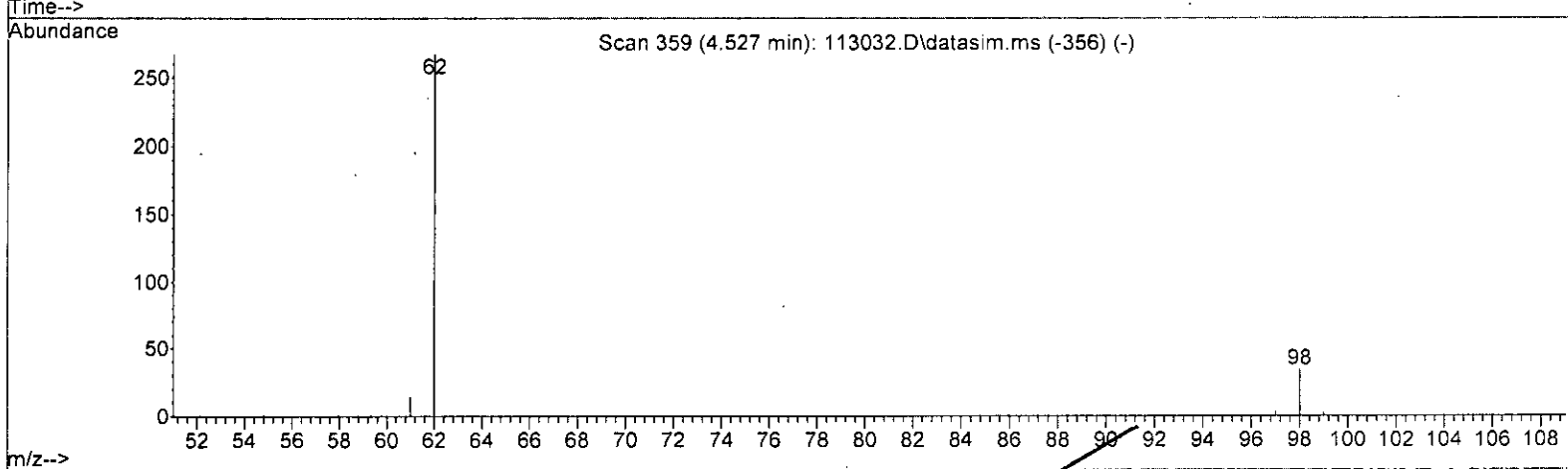
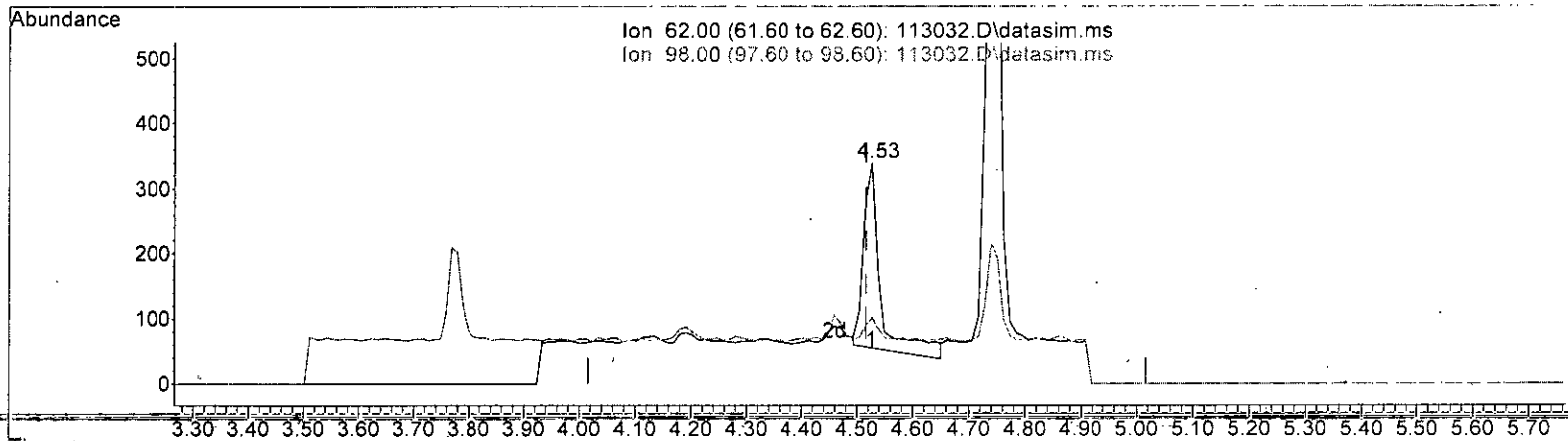
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	96.13
98.00	62.70	70.65
0.00	0.00	0.00

12.1  
LM

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(26) 1,2-Dichloroethane (EDC) (TMP) *m* 12.1

4.527min (+ 0.011) 0.125 ppb

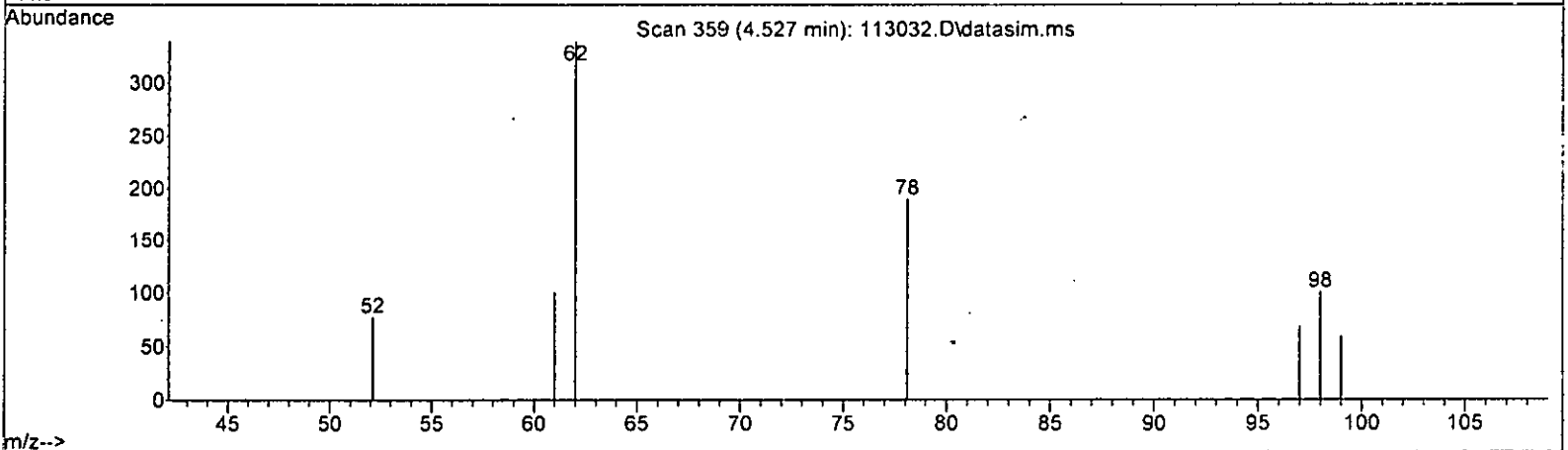
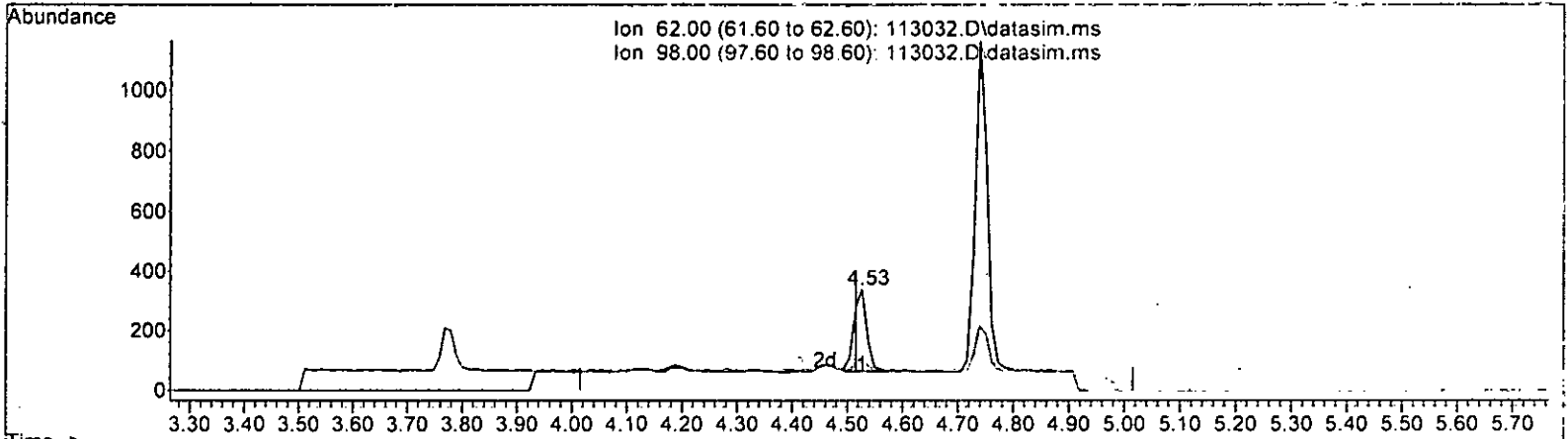
response	599
Ion	Exp% Act%
62.00	100.00 100.00
98.00	8.90 12.23
0.00	0.00 0.00
0.00	0.00 0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(26) 1,2-Dichloroethane (EDC) (TMP) *m 12.1*

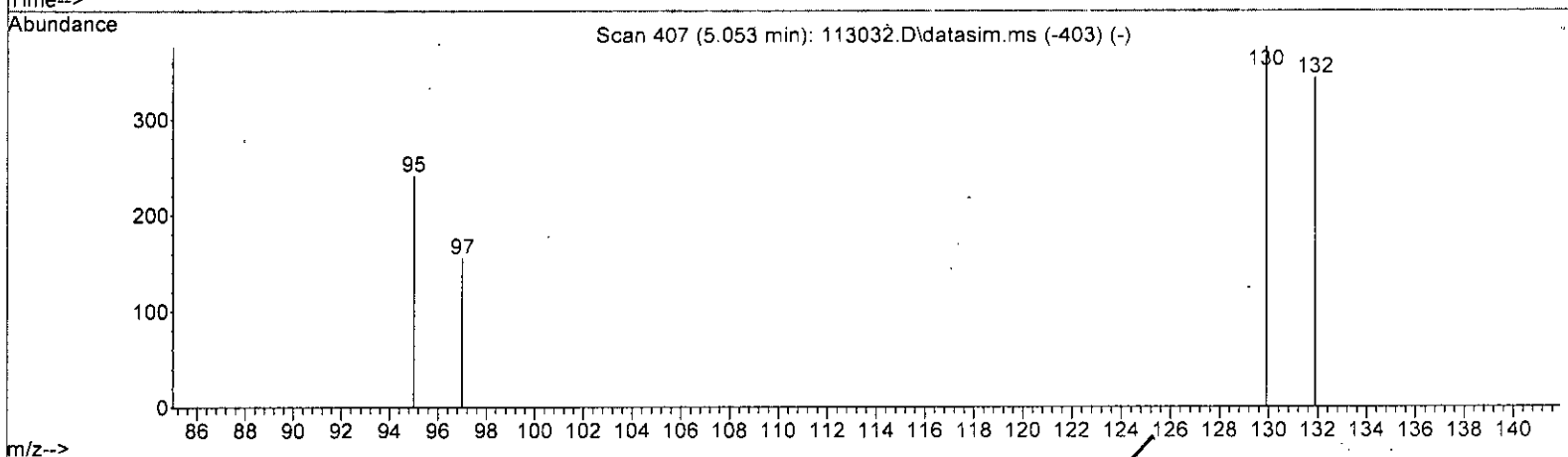
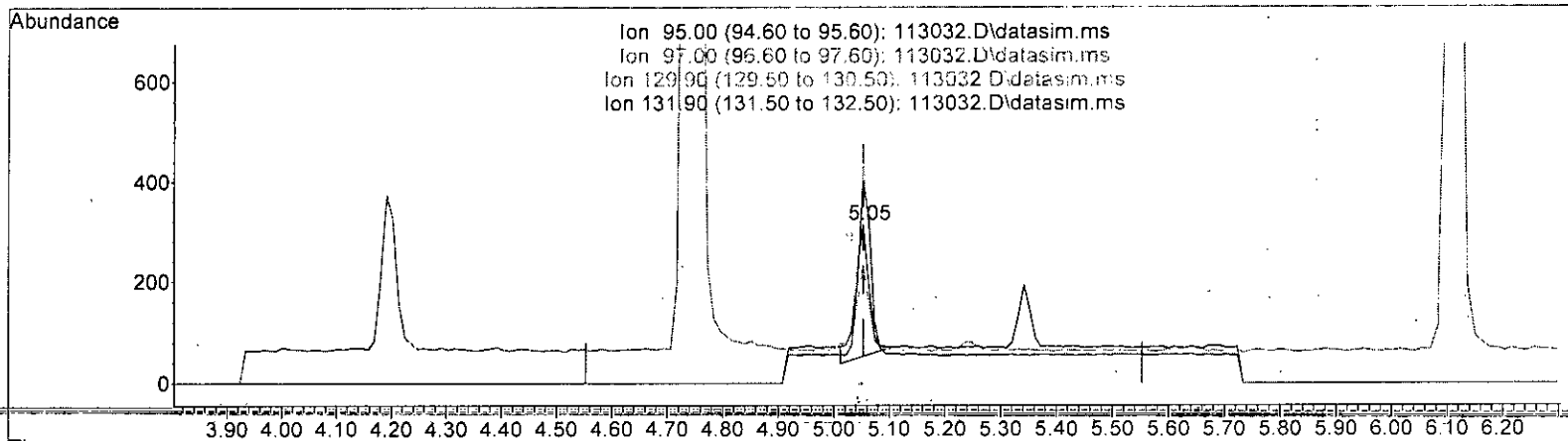
4.527min (+ 0.011) 0.088 ppb m

response	447	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	8.90	29.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

*m 12.1*

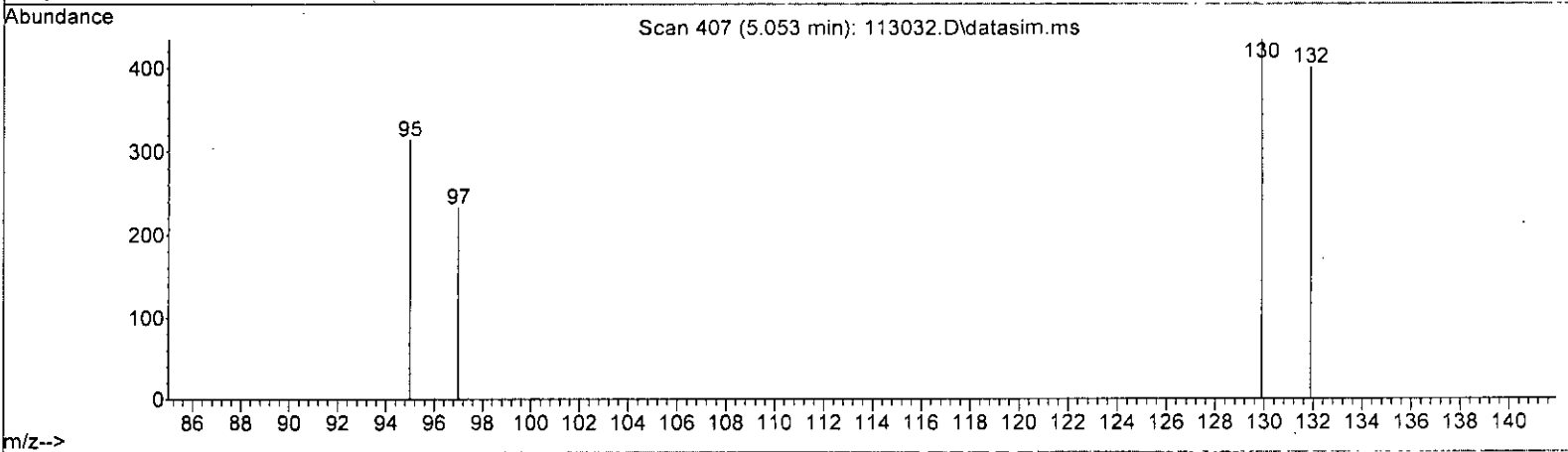
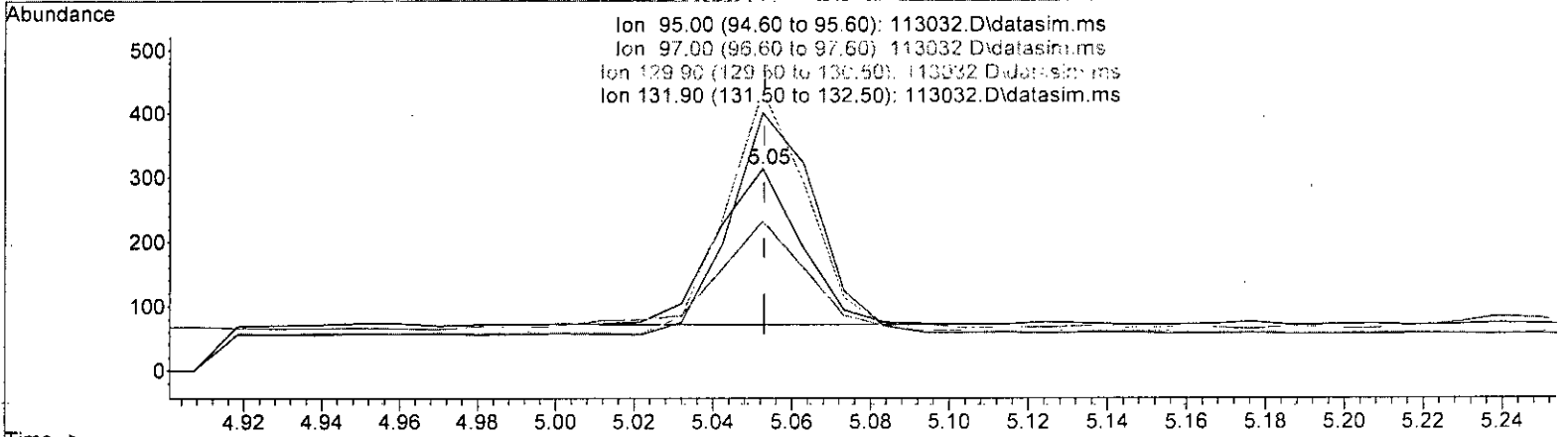
(32) Trichloroethene (TMP)  
 5.053min (-0.000) 0.107 ppb  
 response 448

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	68.60
129.90	161.00	155.79
131.90	160.10	142.15

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(32) Trichloroethene (TMP)

5.053min (-0.000) 0.087 ppb m

response 362

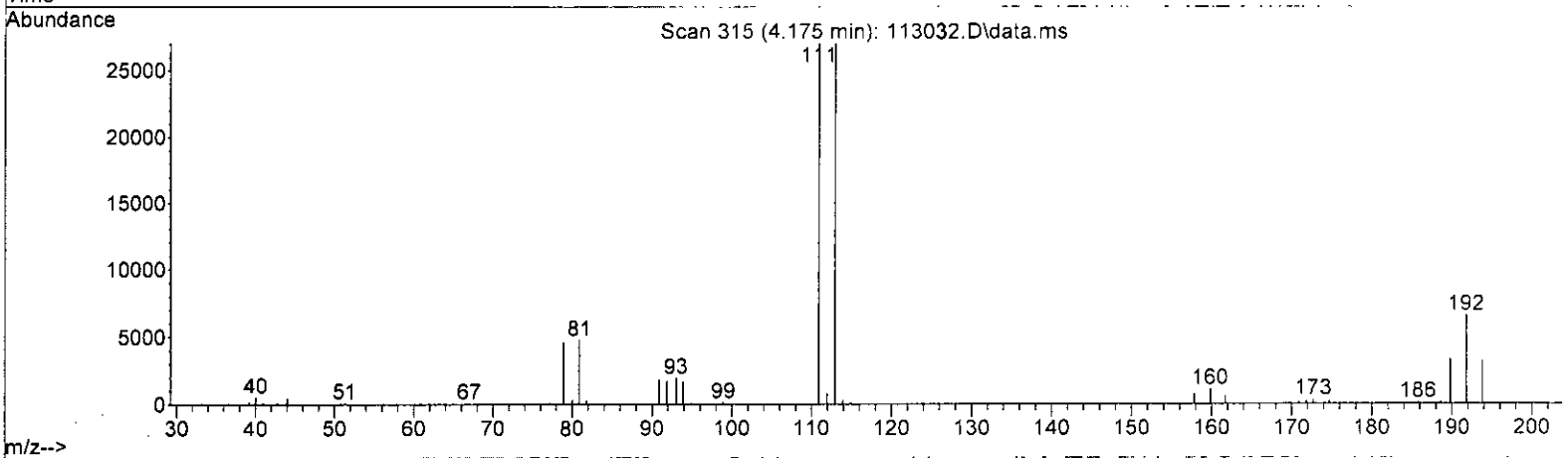
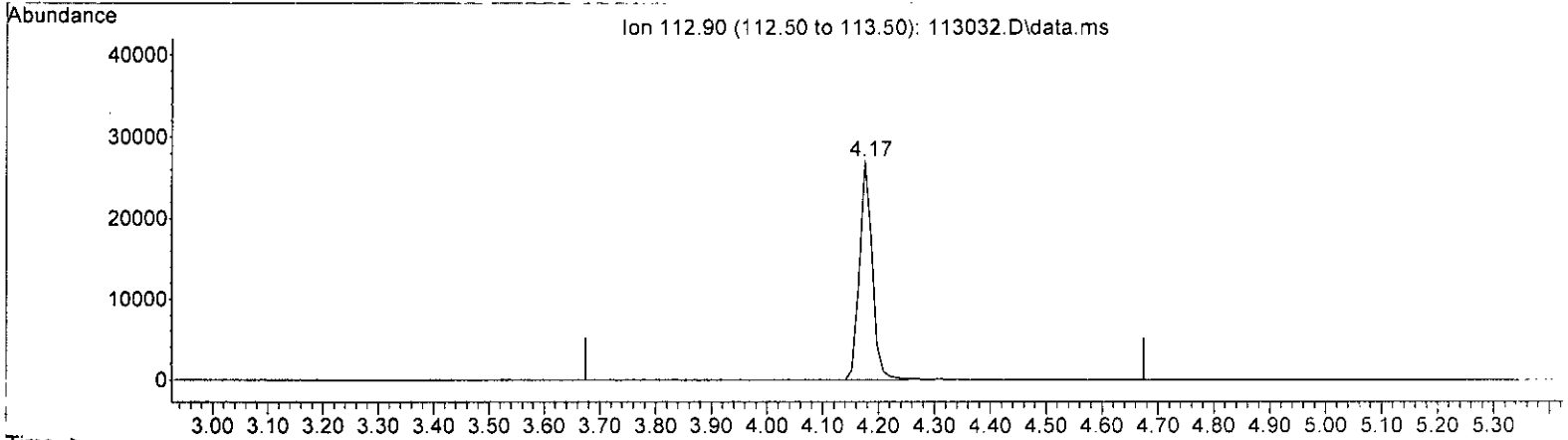
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	74.12
129.90	161.00	138.98
131.90	160.10	127.80#

*M 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(3) Dibromofluoromethane (S)		
4.175min (-0.000) 9.771 ppb m		
response	42674	
Ion	Exp%	Act%
112.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*accidental  
 deletion  
 12.1  
 m*

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	137091	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	110964	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	69191	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	0.00	113	0d	0.000	ppb	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	0.00%#	
30) 1,2-Dichloroethane-d4	4.45	102	7645	9.340	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	93.40%	
35) Toluene-d8	6.11	98	114799	9.316	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	93.20%	
57) 4-Bromofluorobenzene	8.51	95	43095	10.278	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	102.80%	

*Handwritten notes:*  
 ← 9.771 ppb  
 97.71%  
 W  
 12.1

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.	d	
4) Dichlorodifluoromethane	0.00		0	N.D.	d	
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.35	62	469m	0.092	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.	d	
9) Trichlorofluoromethane	0.00		0	N.D.	d	
10) 2-Propanol	0.00		0	N.D.	d	
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.27	96	302m	0.089	ppb	
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
16] Methyl t-butyl ether (...)	2.93	73	777m	0.095	ppb	
17] trans-1,2-Dichloroethene	2.92	96	335m	0.089	ppb	
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d	
19] 1,1-Dichloroethane	3.28	63	424	0.091	ppb	98
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d	
21) 2,2-Dichloropropane	0.00		0	N.D.	d	
22] cis-1,2-Dichloroethene	3.77	96	363	0.089	ppb	88
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26] 1,2-Dichloroethane (EDC)	4.53	62	447m	0.088	ppb	
27] 1,1,1-Trichloroethane	4.19	97	566	0.088	ppb	95
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.	d	
31] Benzene	4.50	78	1068	0.085	ppb	95
32] Trichloroethene	5.05	95	362m	0.087	ppb	
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.	d	

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

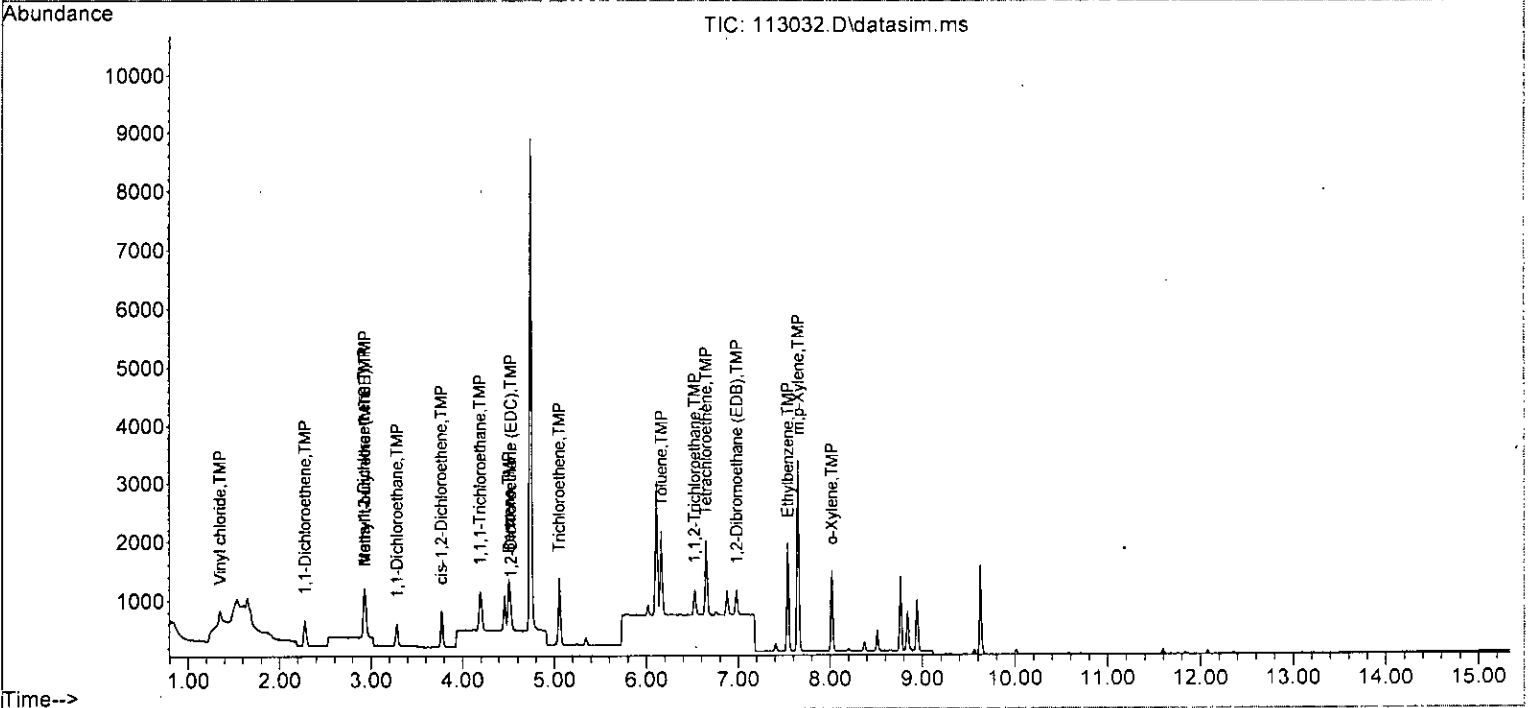
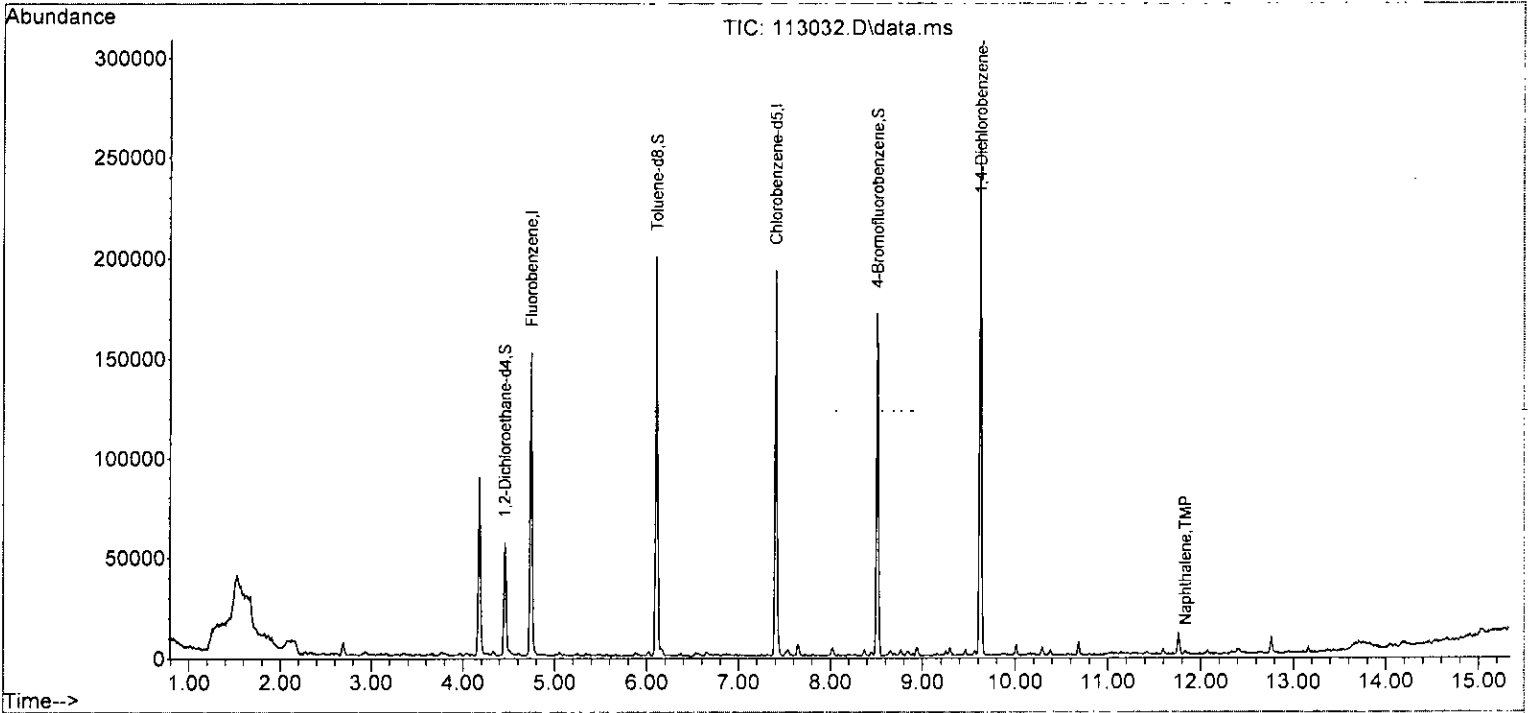
Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.16	92	732	0.088	ppb	97
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42] 1,1,2-Trichloroethane	6.53	83	232	0.099	ppb	93
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.65	164	474	0.092	ppb	95
46) Dibromochloromethane	0.00		0	N.D.	d	
47] 1,2-Dibromoethane (EDB)	6.98	107	340	0.084	ppb	89
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.54	91	1862	0.086	ppb	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.65	106	1754	0.170	ppb	99
52] o-Xylene	8.02	106	686	0.090	ppb	94
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	11.83	128	1526	0.114	ppb	93
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	0	-2.33#
3 S Dibromofluoromethane	10.000	0.000	100.0#	0	-4.17#
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP Vinyl chloride	0.100	0.092	8.0	100	0.02
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.83#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.33#
11 TMP Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP 1,1-Dichloroethene	0.100	0.089	11.0	97	0.01
13 TMP Hexane	-1.000	0.000	0.0	0	-3.16#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.100	0.095	5.0	105	0.01
17 TMP trans-1,2-Dichloroethene	0.100	0.089	11.0	96	0.01
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP 1,1-Dichloroethane	0.100	0.091	9.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP cis-1,2-Dichloroethene	0.100	0.089	11.0	100	0.00
23 TMP Chloroform	-1.000	0.000	0.0	0	-4.04#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.61#
26 TMP 1,2-Dichloroethane (EDC)	0.100	0.088	12.0	101	0.01
27 TMP 1,1,1-Trichloroethane	0.100	0.088	12.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.33#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.33#
30 S 1,2-Dichloroethane-d4	10.000	9.340	6.6	100	0.00
31 TMP Benzene	0.100	0.085	15.0	100	0.00
32 TMP Trichloroethene	0.100	0.087	13.0	100	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.24#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.48#
35 S Toluene-d8	10.000	9.316	6.8	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.88#
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.100	0.088	12.0	100	0.00
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP 1,1,2-Trichloroethane	0.100	0.099	1.0	100	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.76#



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45 TMP Tetrachloroethene	0.100	0.092	8.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.100	0.084	16.0	100	0.01
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49 TMP Ethylbenzene	0.100	0.086	14.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.51#
51 TMP m,p-Xylene	0.200	0.170	15.0	100	0.00
52 TMP o-Xylene	0.100	0.090	10.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.37#
55 TMP Bromoform	-1.000	0.000	0.0	0	8.20#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.278	-2.8	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.77#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.94#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.66#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.70#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.95#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.30#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.46#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.56#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.01#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75 TMP Naphthalene	0.100	0.114	-14.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.08#

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	0#	-2.33#
3 S Dibromofluoromethane	0.319	0.000	100.0#	0#	-4.17#
4 TMP Dichlorodifluoromethane	0.582	0.000#	100.0#	0#	-1.11#
5 TMP Chloromethane	0.386	0.000#	100.0#	0#	-1.25#
6 TMP Vinyl chloride	0.373	0.342	8.3	100	0.02
7 TMP Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.200	0.000#	100.0#	0#	-1.64#
9 TMP Trichlorofluoromethane	1.015	0.000#	100.0#	0#	-1.83#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.33#
11 TMP Acetone	0.022	0.000#	100.0#	0#	-2.32#
12 TMP 1,1-Dichloroethene	0.248	0.220	11.3	97	0.01
13 TMP Hexane	0.244	0.000#	100.0#	0#	-3.16#
14 TMP Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.022	0.000#	100.0#	0#	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.567	4.9	105	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.244	10.9	96	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.000#	100.0#	0#	-3.34#
19 TMP 1,1-Dichloroethane	0.341	0.309	9.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.000#	100.0#	0#	-3.65#
21 TMP 2,2-Dichloropropane	0.297	0.000#	100.0#	0#	-3.76#
22 TMP cis-1,2-Dichloroethene	0.296	0.265	10.5	100	0.00
23 TMP Chloroform	0.441	0.000#	100.0#	0#	-4.04#
24 TMP 2-Butanone (MEK)	0.102	0.000#	100.0#	0#	-3.78#
25 TMP t-Amyl methyl ether (TAME)	0.551	0.000#	100.0#	0#	-4.61#
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.326	2.4	101	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.413	11.8	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.000#	100.0#	0#	-4.33#
29 TMP Carbon tetrachloride	0.497	0.000#	100.0#	0#	-4.33#
30 S 1,2-Dichloroethane-d4	0.060	0.056	6.7	100	0.00
31 TMP Benzene	0.849	0.779	8.2	100	0.00
32 TMP Trichloroethene	0.304	0.264	13.2	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.000#	100.0#	0#	-5.24#
34 TMP Bromodichloromethane	0.316	0.000#	100.0#	0#	-5.48#
35 S Toluene-d8	0.899	0.837	6.9	100	0.00
36 TMP Dibromomethane	0.173	0.000#	100.0#	0#	-5.34#
37 TMP 4-Methyl-2-pentanone	0.040	0.000#	100.0#	0#	-6.01#
38 TMP cis-1,3-Dichloropropene	0.329	0.000#	100.0#	0#	-5.88#
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.660	8.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.000#	100.0#	0#	-6.36#
42 TMP 1,1,2-Trichloroethane	0.204	0.209	-2.5	100	0.00
43 TMP 2-Hexanone	0.142	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.443	0.427	3.6	100	0.00
46 TMP Dibromochloromethane	0.425	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.306	8.7	100	0.01
48 TMP Chlorobenzene	0.943	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.560	1.678	-7.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.000#	100.0#	0#	-7.51#
51 TMP m,p-Xylene	0.718	0.790	-10.0	100	0.00
52 TMP o-Xylene	0.611	0.618	-1.1	100	0.00
53 TMP Styrene	0.848	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.353	0.000#	100.0#	0#	-8.37#
55 TMP Bromoform	0.302	0.000#	100.0#	0#	-8.20#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.623	-2.8	100	0.00
58 TMP n-Propylbenzene	2.257	0.000#	100.0#	0#	-8.77#
59 TMP Bromobenzene	0.821	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	1.836	0.000#	100.0#	0#	-8.94#
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.000#	100.0#	0#	-8.66#
62 TMP 1,2,3-Trichloropropane	0.337	0.000#	100.0#	0#	-8.70#
63 TMP 2-Chlorotoluene	1.282	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	1.552	0.000#	100.0#	0#	-8.95#
65 TMP tert-Butylbenzene	1.946	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	1.975	0.000#	100.0#	0#	-9.30#
67 TMP sec-Butylbenzene	2.396	0.000#	100.0#	0#	-9.46#
68 TMP p-Isopropyltoluene	2.400	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.476	0.000#	100.0#	0#	-9.56#
70 TMP 1,4-Dichlorobenzene	1.456	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.422	0.000#	100.0#	0#	-10.01#
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.997	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.588	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	1.938	2.205	-13.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.000#	100.0#	0#	-12.08#

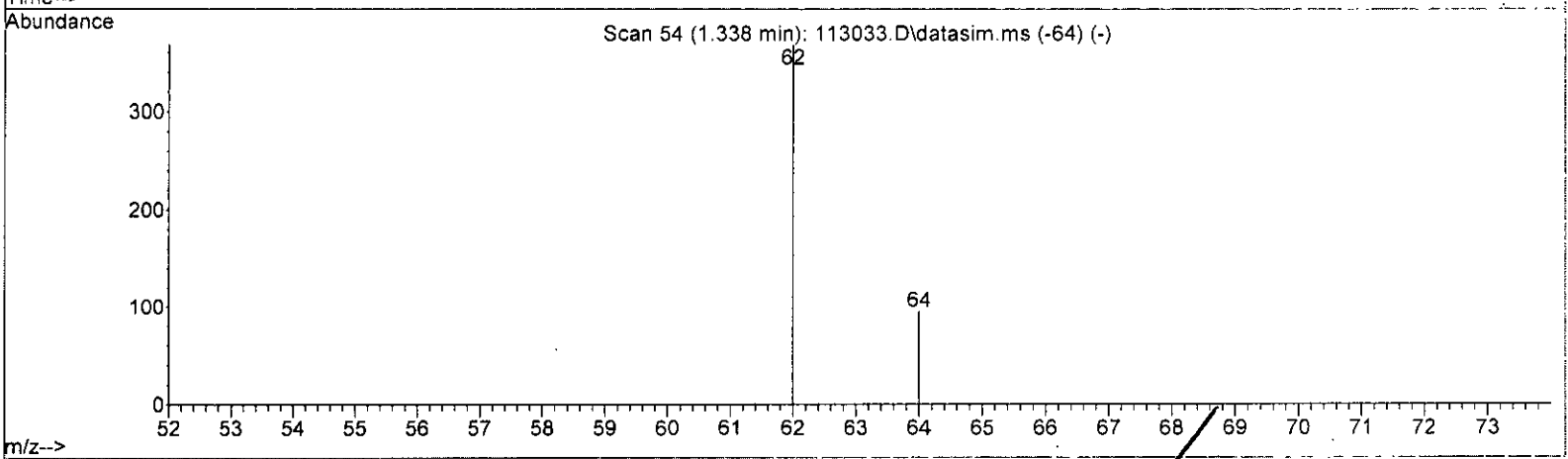
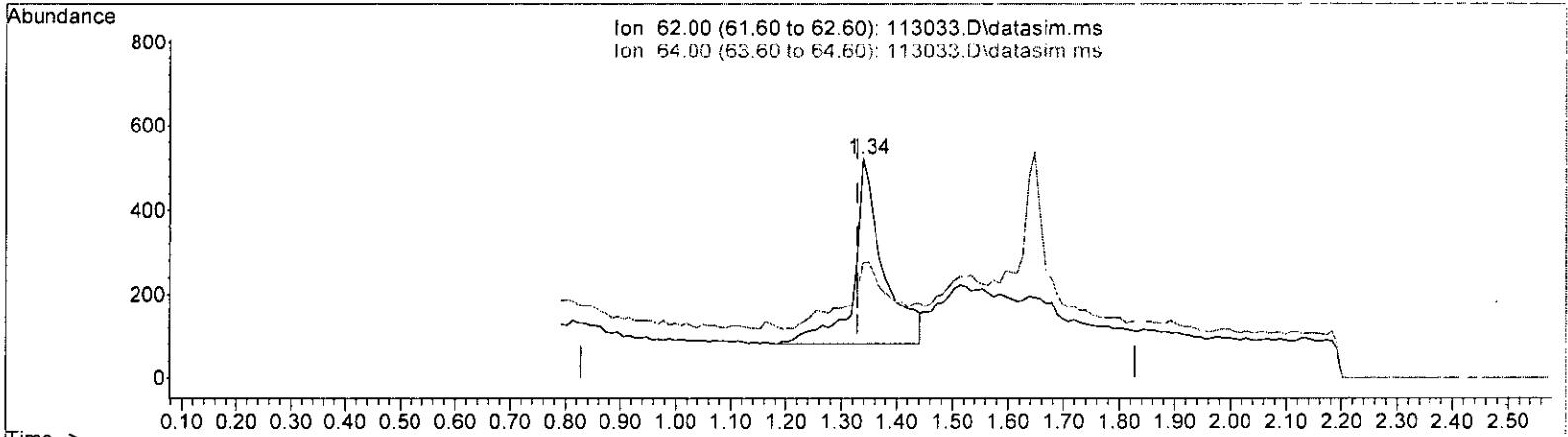
(#) = Out of Range

SPCC's out = 50 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 0.327 ppb

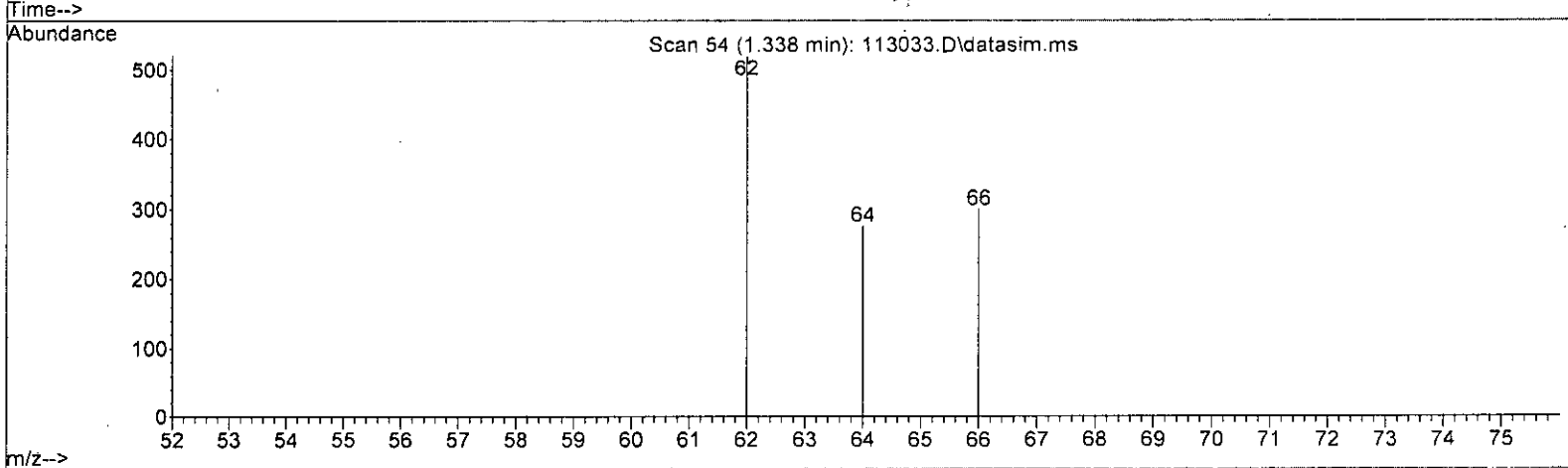
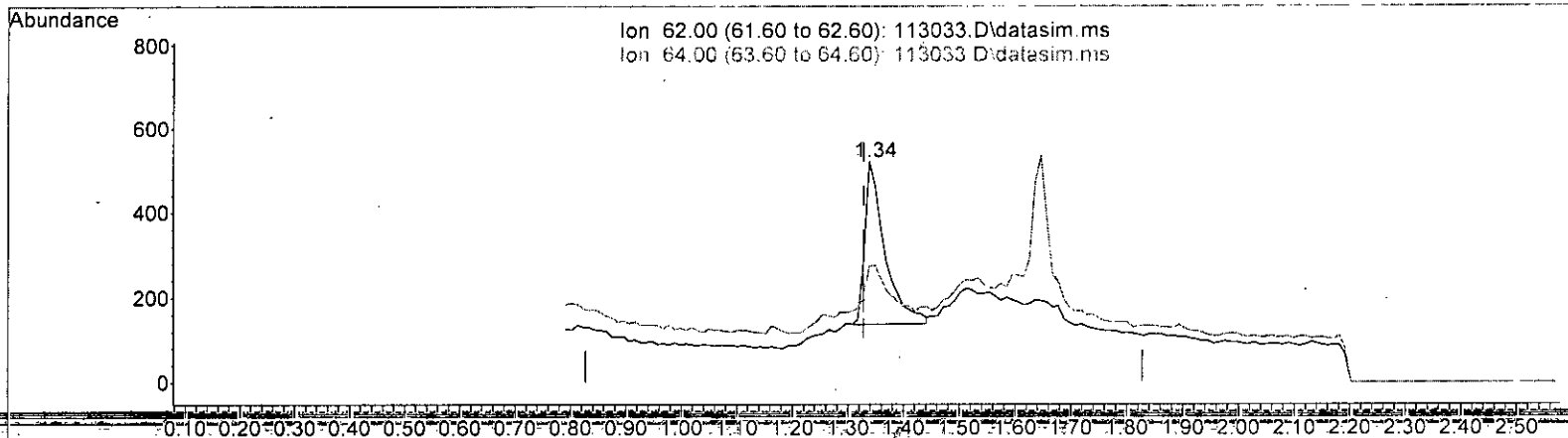
response	1657	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	35.00
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 0.190 ppb m

response 961

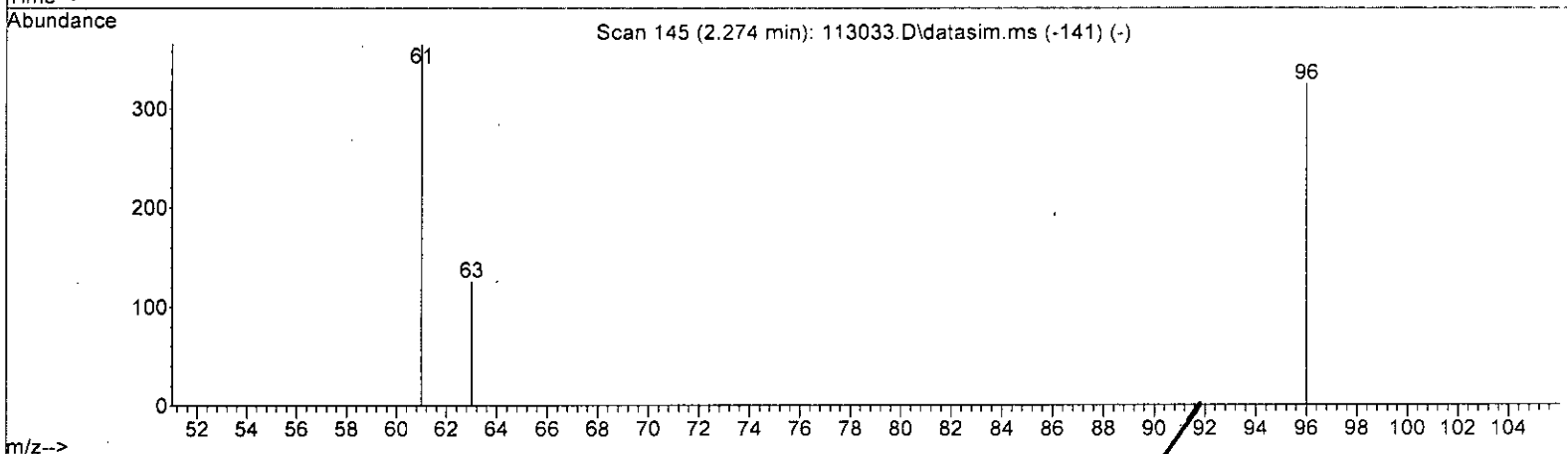
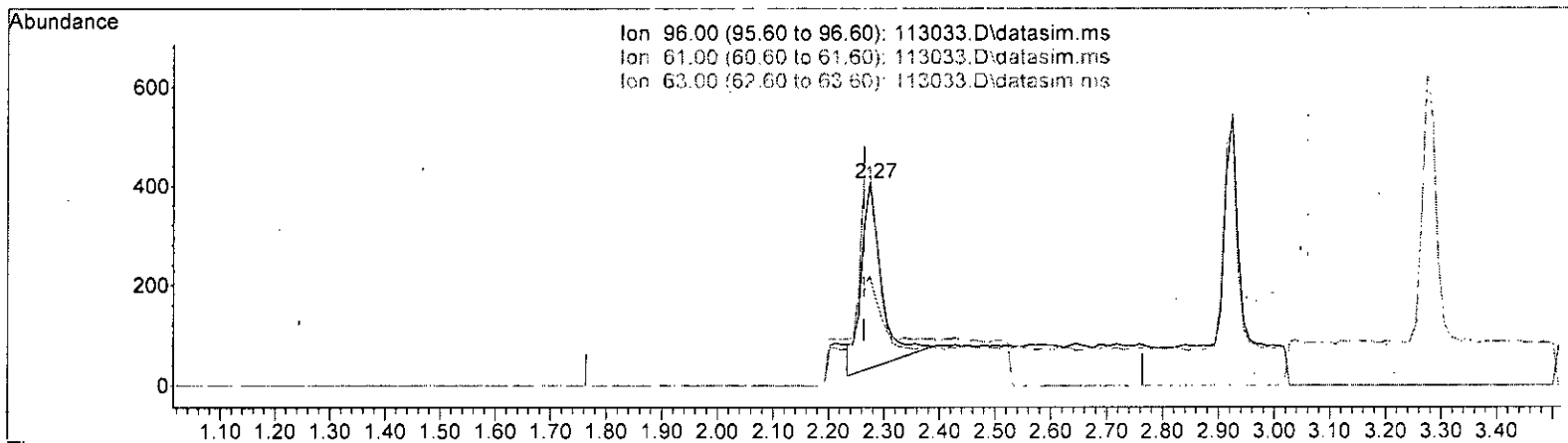
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	52.69
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.274min (+ 0.010) 0.279 ppb

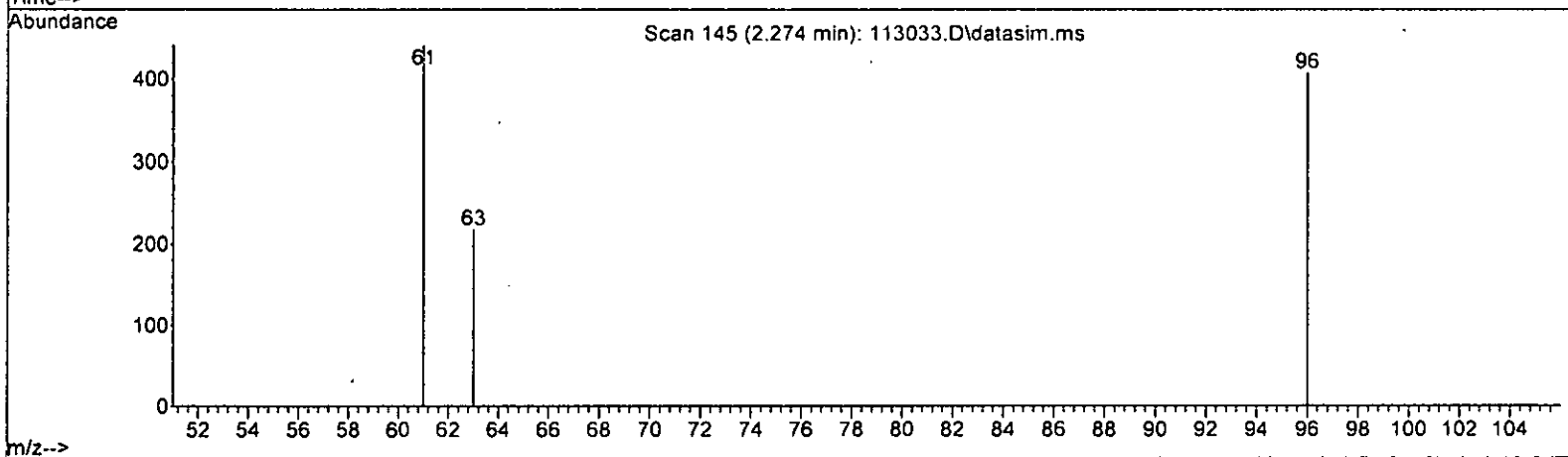
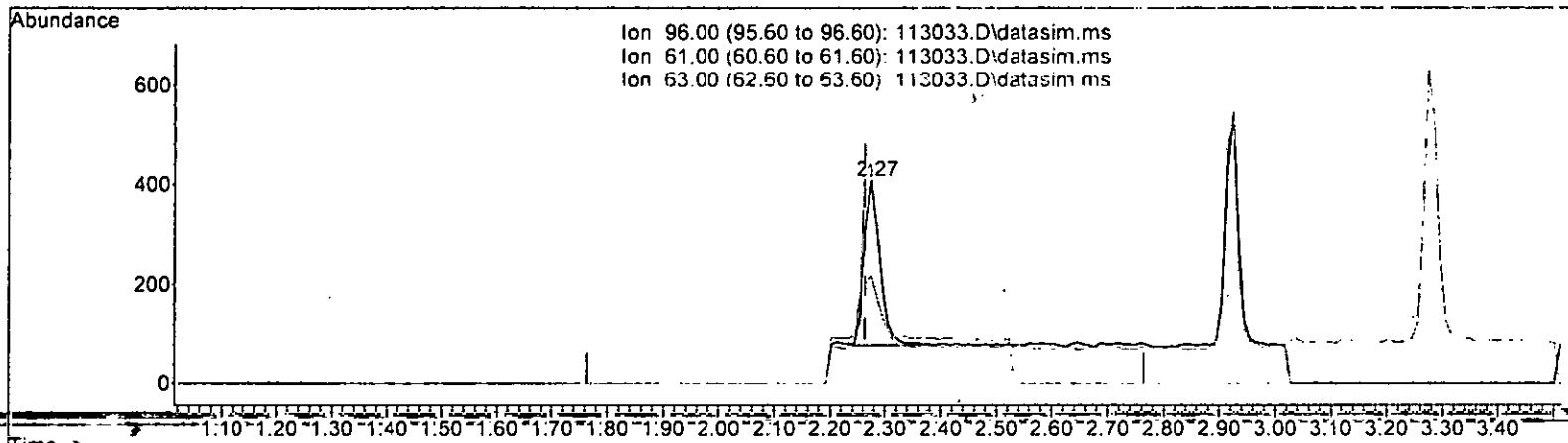
response	938	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	111.82
63.00	41.10	37.88
0.00	0.00	0.00

*m/z.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(12) 1,1-Dichloroethene (TMP) *m 12.1*

2.274min (+ 0.010) 0.198 ppb m

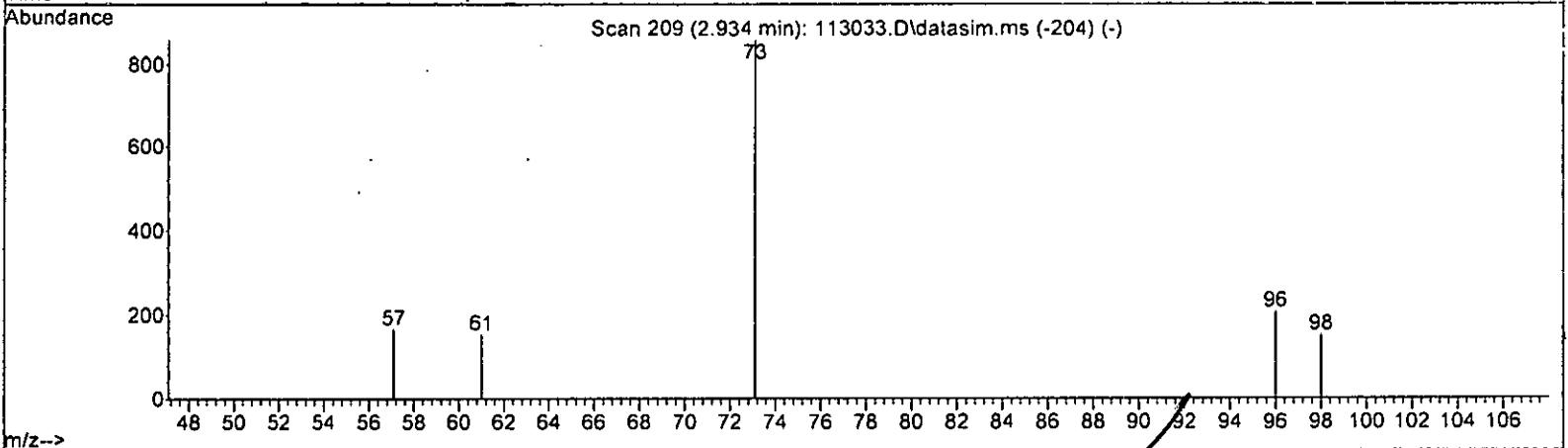
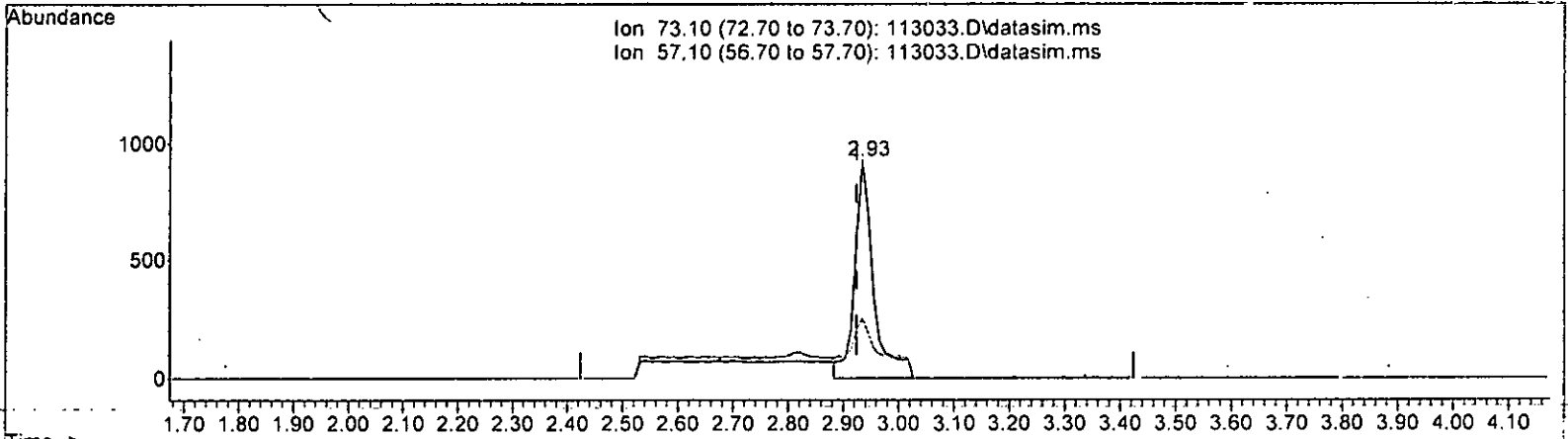
response 667

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	108.35
63.00	41.10	53.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.934min (+ 0.010) 0.268 ppb

response 2170

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	27.08
0.00	0.00	0.00
0.00	0.00	0.00

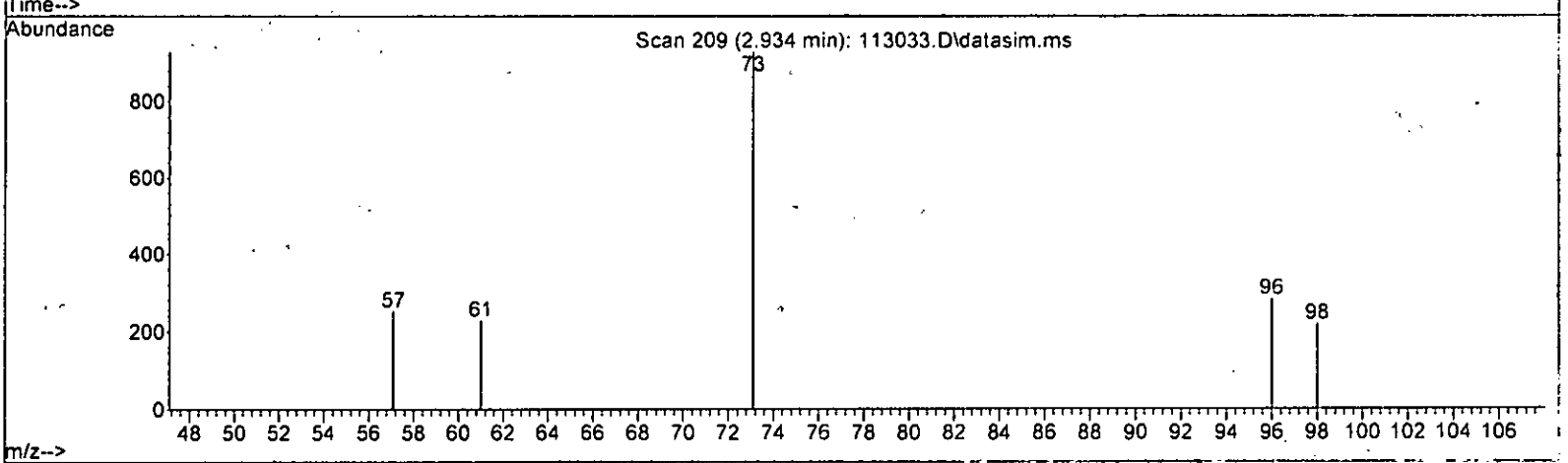
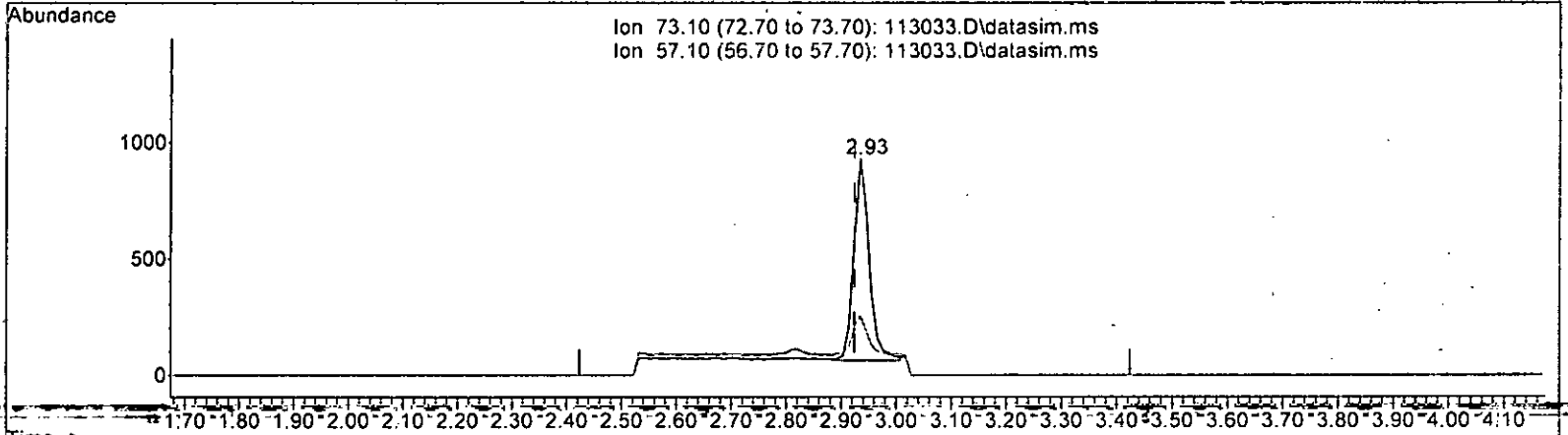
*LM 12.1*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.934min (+ 0.010) 0.204 ppb m

response 1652

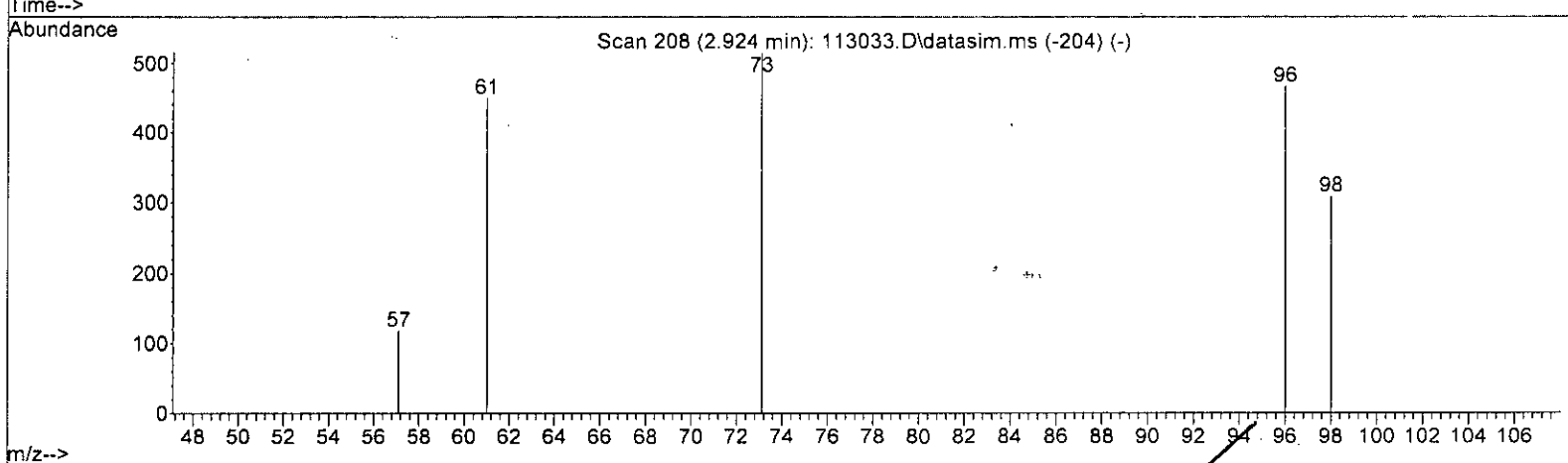
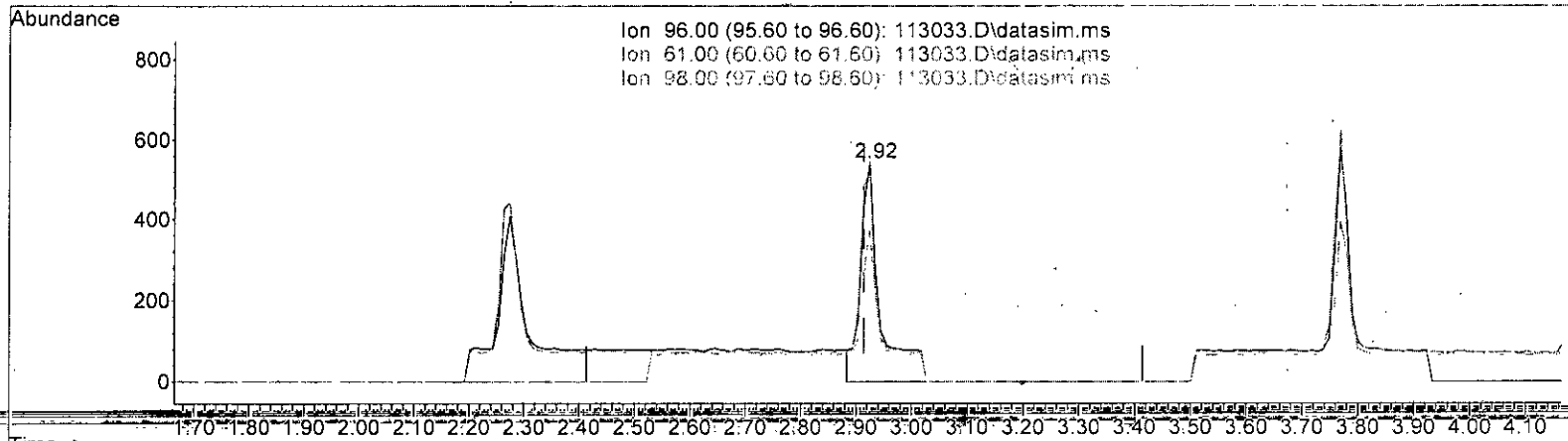
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	27.08
0.00	0.00	0.00
0.00	0.00	0.00

m/2.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 0.362 ppb

response 1350

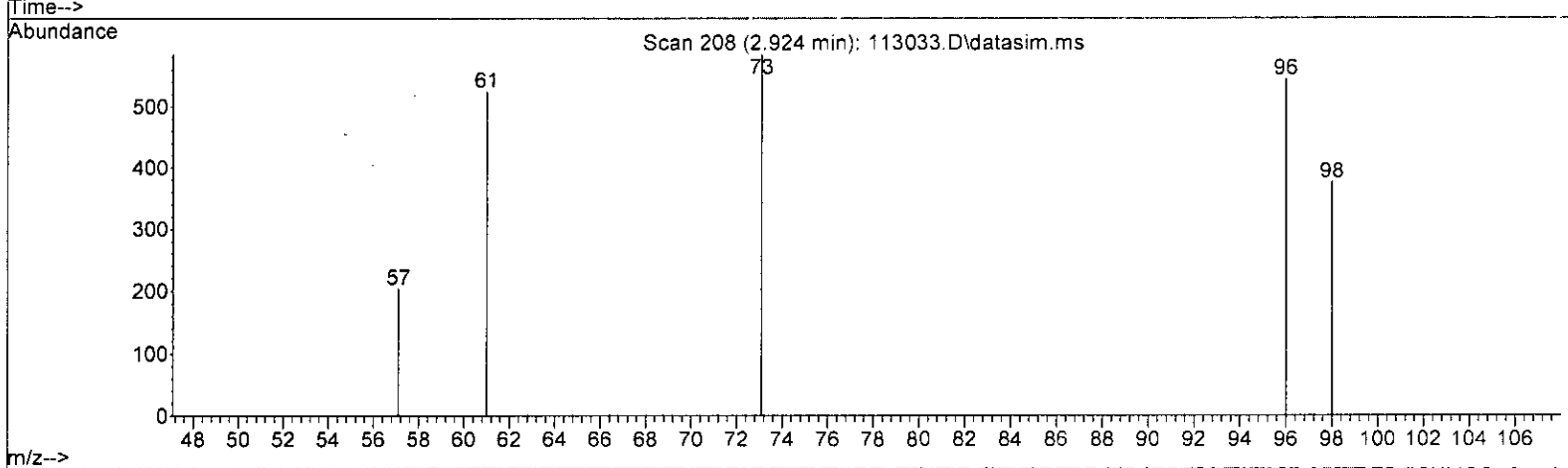
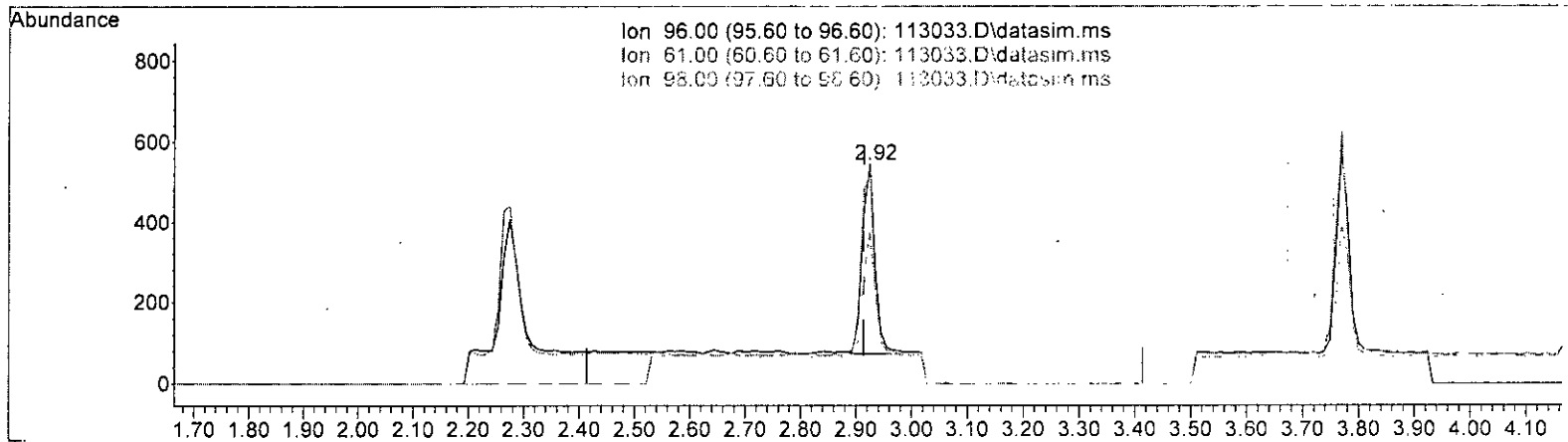
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	96.32
98.00	62.70	69.12
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *M 12.1*

2.924min (+ 0.010) 0.201 ppb m

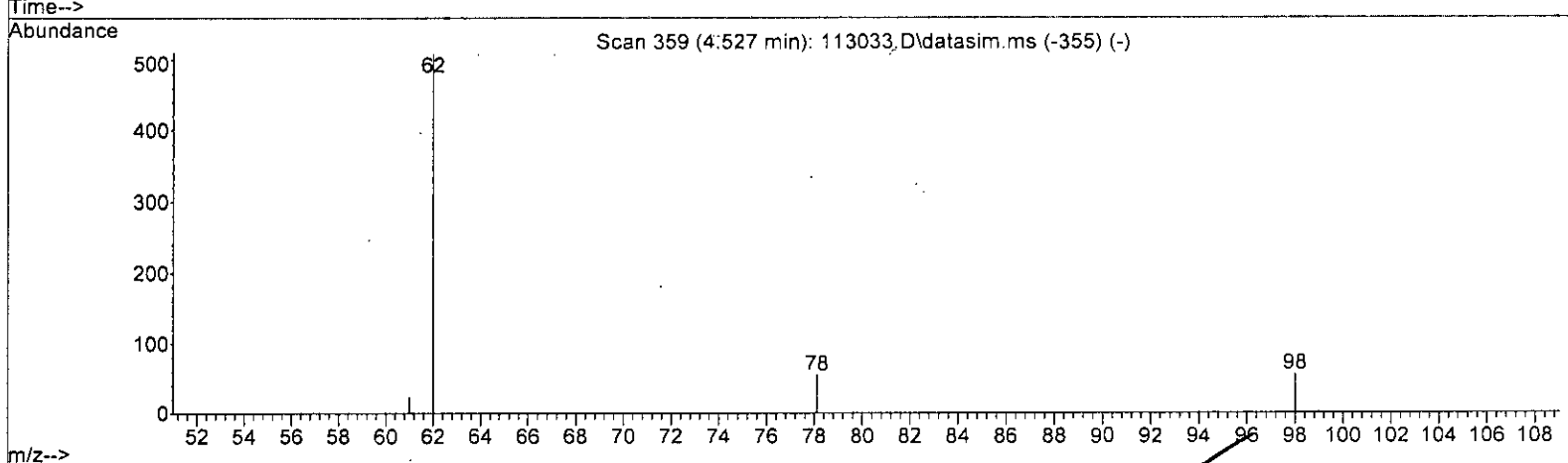
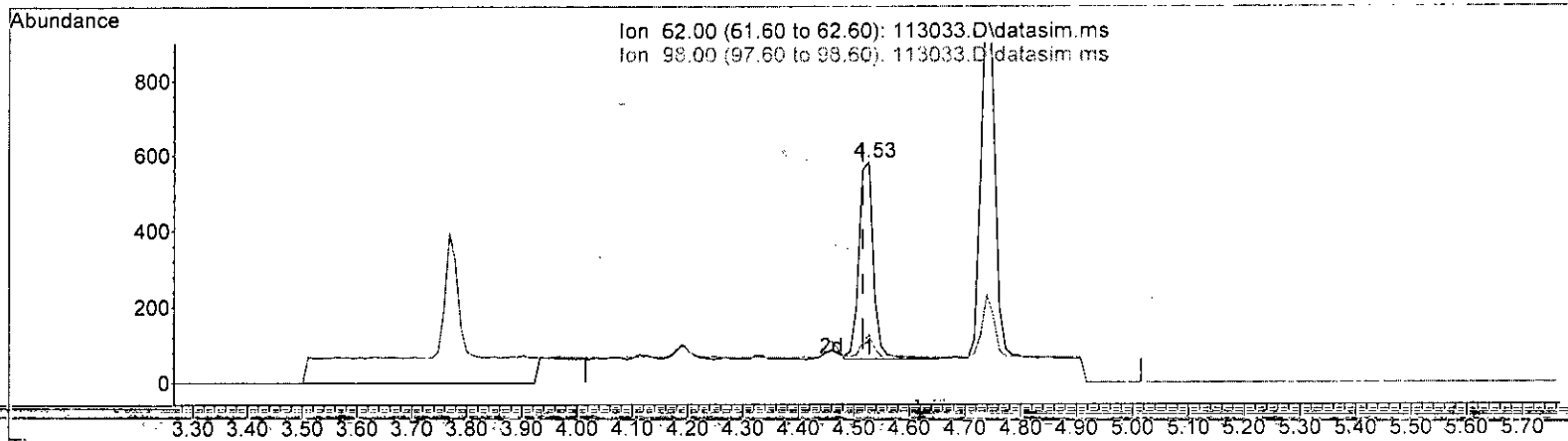
response 750

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	96.32
98.00	62.70	69.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(26) 1,2-Dichloroethane (EDC) (TMP)

4.527min (+ 0.011) 0.210 ppb

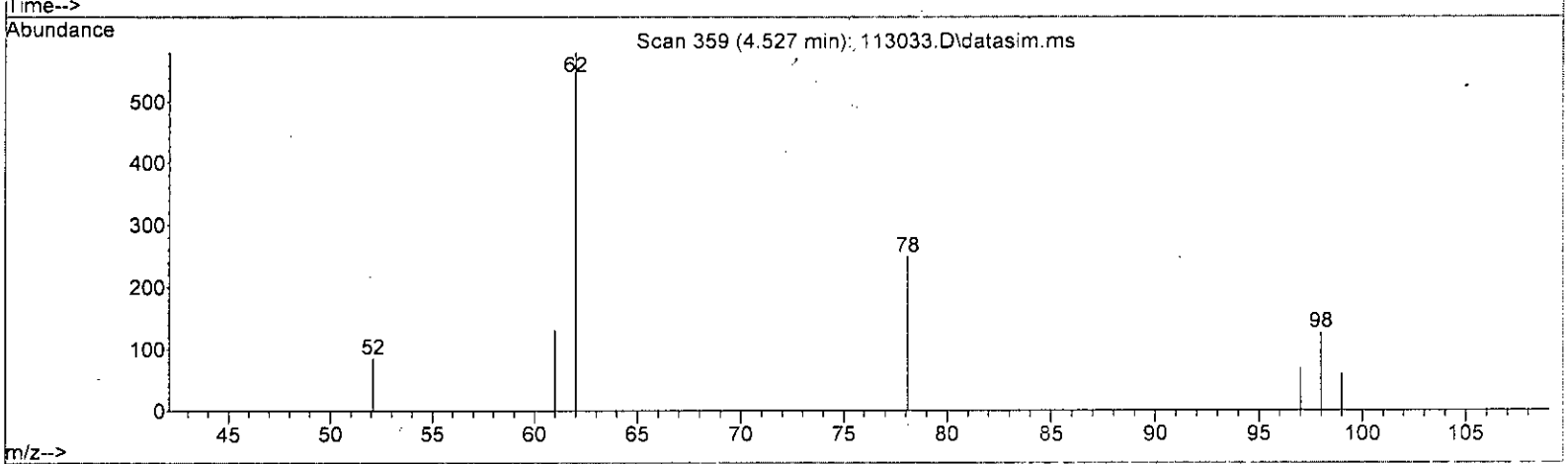
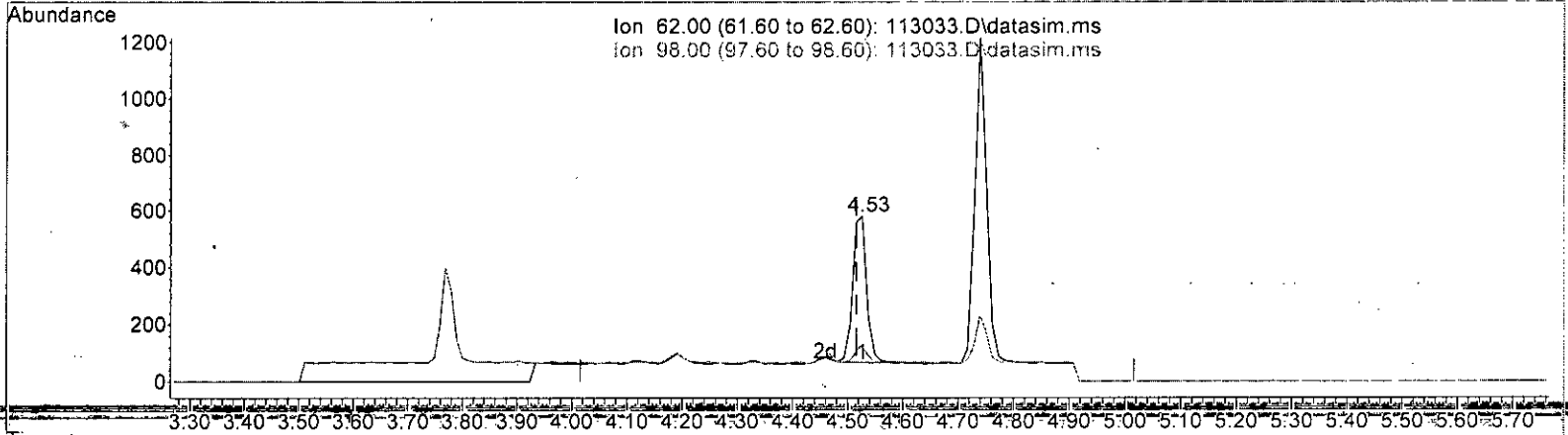
response	945	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	8.90	10.79
0.00	0.00	0.00
0.00	0.00	0.00

*MR.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms *M 12.1*

(26) 1,2-Dichloroethane (EDC) (TMP)

4.527min (+ 0.011) 0.199 ppb m

response	901
Ion	Exp% Act%
62.00	100.00 100.00
98.00	8.90 21.51
0.00	0.00 0.00
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.75	96	135773	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	114155	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	70028	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	42915	9.922	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.20%		
30) 1,2-Dichloroethane-d4	4.45	102	7934	9.787	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery	=	97.90%		
35) Toluene-d8	6.11	98	118723	9.728	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery	=	97.30%		
57) 4-Bromofluorobenzene	8.51	95	43122	10.162	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery	=	101.60%		
Target Compounds							
							Qvalue
2) Ethanol	2.38	45	46	No Calib			
4) Dichlorodifluoromethane	1.12	85	1626	0.206	ppb		86
5) Chloromethane	0.00		0	N.D.	d		
6) Vinyl chloride	1.34	62	961m	0.190	ppb		
7) Bromomethane	0.00		0	N.D.			
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	2.38	45	46	No Calib.			
11) Acetone	0.00		0	N.D.	d		
12) 1,1-Dichloroethene	2.27	96	667m	0.198	ppb		
13) Hexane	3.16	57	975	Below Cal			89
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16) Methyl t-butyl ether (...)	2.93	73	1652m	0.204	ppb		
17) trans-1,2-Dichloroethene	2.92	96	750m	0.201	ppb		
18) Diisopropyl ether (DIPE)	3.35	45	1508	0.208	ppb		89
19) 1,1-Dichloroethane	3.27	63	925	0.200	ppb		94
20) Ethyl t-butyl ether (E...)	3.66	87	796	0.204	ppb	#	81
21) 2,2-Dichloropropane	3.77	77	1489	0.152	ppb		70
22) cis-1,2-Dichloroethene	3.77	96	802	0.199	ppb		92
23) Chloroform	4.04	83	1336	0.223	ppb		88
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.61	73	1507	0.202	ppb		87
26) 1,2-Dichloroethane (EDC)	4.53	62	901m	0.199	ppb		
27) 1,1,1-Trichloroethane	4.19	97	1238	0.195	ppb		98
28) 1,1-Dichloropropene	4.33	75	1092	0.251	ppb		75
29) Carbon tetrachloride	4.33	117	1402	0.208	ppb		86
31) Benzene	4.50	78	2255	0.196	ppb		96
32) Trichloroethene	5.05	95	821	0.199	ppb		93
33) 1,2-Dichloropropane	5.24	63	657	0.111	ppb	#	81
34) Bromodichloromethane	5.48	83	885	0.206	ppb		88
36) Dibromomethane	5.34	93	428	0.183	ppb		84

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

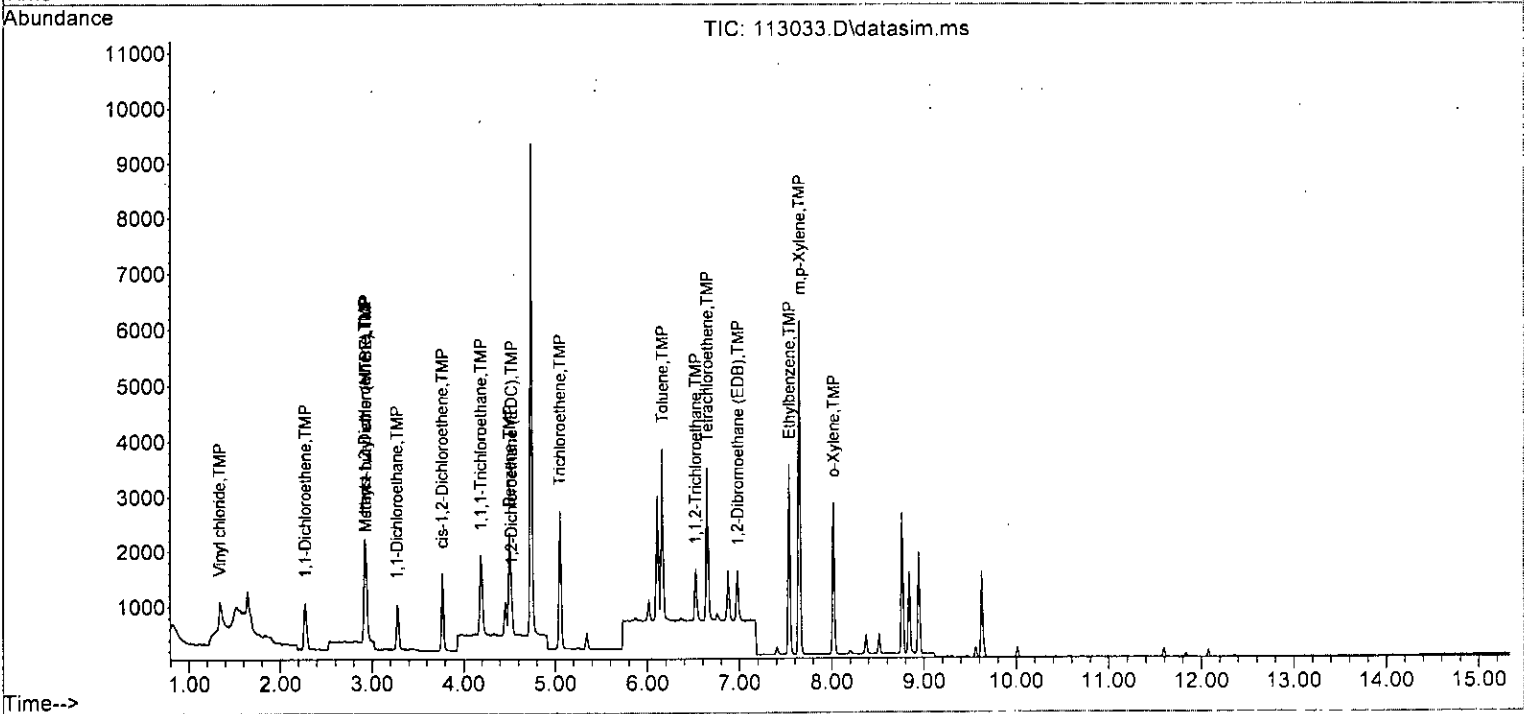
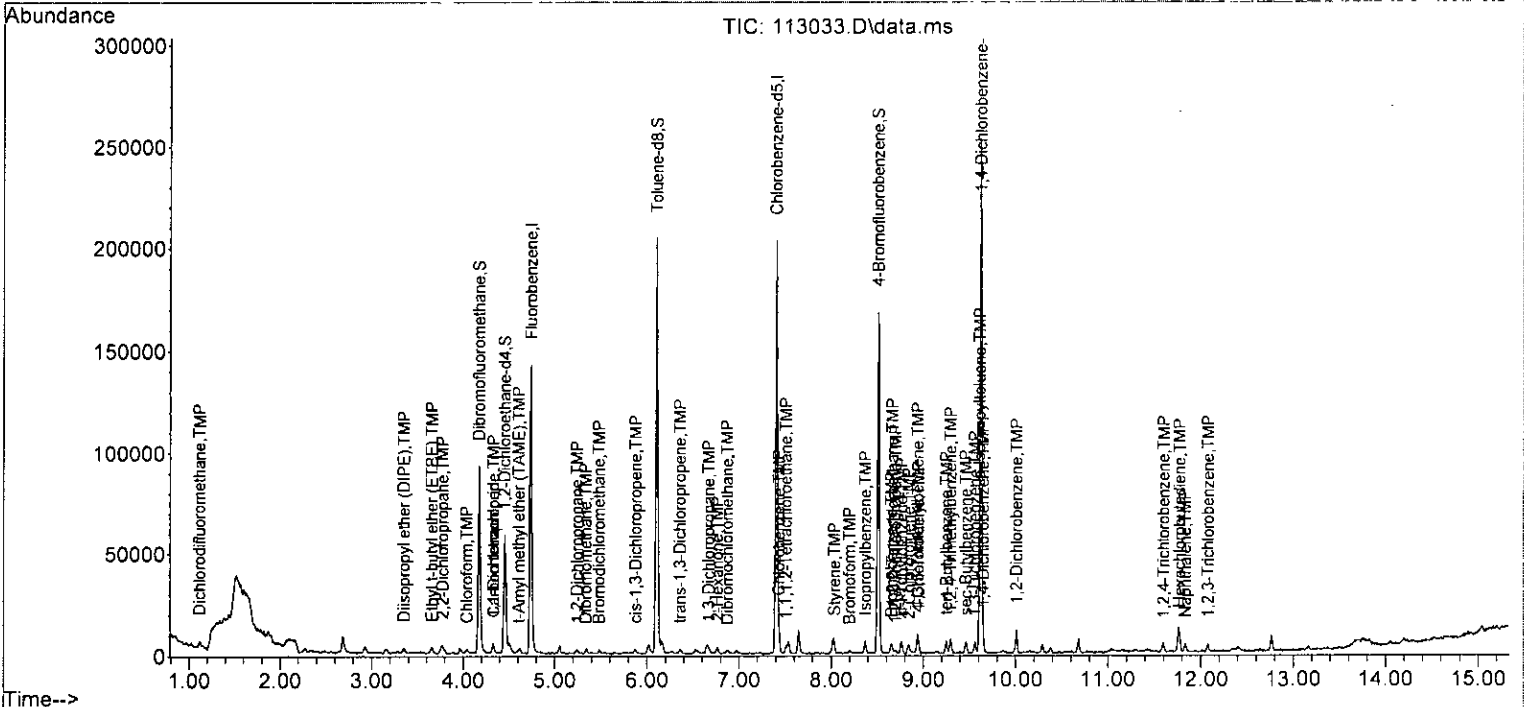
Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	5.88	75	833	0.187	ppb	81
40] Toluene	6.16	92	1735	0.212	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	1037	0.255	ppb	80
42] 1,1,2-Trichloroethane	6.53	83	474	0.204	ppb	99
43) 2-Hexanone	6.76	43	2135	1.321	ppb	86
44) 1,3-Dichloropropane	6.67	76	769	0.199	ppb	48
45] Tetrachloroethene	6.65	164	1046	0.204	ppb	97
46) Dibromochloromethane	6.87	129	905	0.186	ppb	76
47] 1,2-Dibromoethane (EDB)	6.98	107	745	0.195	ppb	88
48) Chlorobenzene	7.43	112	2216	0.206	ppb	96
49] Ethylbenzene	7.54	91	3470	0.196	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	1016	0.216	ppb	88
51] m,p-Xylene	7.65	106	3208	0.396	ppb	99
52] o-Xylene	8.02	106	1400	0.202	ppb	100
53) Styrene	8.03	104	2123	0.219	ppb	79
54) Isopropylbenzene	8.37	105	3170	0.205	ppb	63
55) Bromoform	8.20	173	620	0.180	ppb	89
58) n-Propylbenzene	8.77	91	3604	0.228	ppb	98
59) Bromobenzene	8.65	156	1224	0.213	ppb	83
60) 1,3,5-Trimethylbenzene	8.94	105	2794	0.217	ppb	91
61) 1,1,2,2-Tetrachloroethane	8.66	83	616	0.191	ppb #	47
62) 1,2,3-Trichloropropane	8.70	75	480	0.203	ppb	83
63) 2-Chlorotoluene	8.84	91	1822	0.203	ppb	96
64) 4-Chlorotoluene	8.95	91	2451	0.226	ppb	96
65) tert-Butylbenzene	9.25	119	3193	0.234	ppb	82
66) 1,2,4-Trimethylbenzene	9.30	105	3402	0.246	ppb	100
67) sec-Butylbenzene	9.46	105	3338	0.199	ppb	99
68) p-Isopropyltoluene	9.61	119	3387	0.202	ppb	95
69) 1,3-Dichlorobenzene	9.56	146	2211	0.214	ppb	98
70) 1,4-Dichlorobenzene	9.65	146	2195	0.215	ppb	92
71) 1,2-Dichlorobenzene	10.01	146	2257	0.227	ppb	88
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.60	180	1444	0.207	ppb	84
74) Hexachlorobutadiene	11.77	225	969	0.235	ppb	66
75) Naphthalene	11.83	128	2757	0.203	ppb	83
76) 1,2,3-Trichlorobenzene	12.08	180	1065	0.193	ppb	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M





Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP	Ethanol	-1.000	0.000	0.0	100	0.05
3 S	Dibromofluoromethane	10.000	9.922	0.8	100	0.00
4 TMP	Dichlorodifluoromethane	0.200	0.206	-3.0	100	0.00
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.200	0.190	5.0	105	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.83#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.05
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.200	0.198	1.0	104	0.01
13 TMP	Hexane	-1.000	-0.311	0.0	0	0.00
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.200	0.204	-2.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.200	0.201	-0.5	96	0.01
18 TMP	Diisopropyl ether (DIPE)	0.200	0.208	-4.0	100	0.00
19 TMP	1,1-Dichloroethane	0.200	0.200	0.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.200	0.204	-2.0	100	0.00
21 TMP	2,2-Dichloropropane	0.200	0.152	24.0#	100	0.01
22 TMP	cis-1,2-Dichloroethene	0.200	0.199	0.5	100	0.00
23 TMP	Chloroform	0.200	0.223	-11.5	100	0.00
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.200	0.202	-1.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.200	0.199	0.5	95	0.01
27 TMP	1,1,1-Trichloroethane	0.200	0.195	2.5	100	0.00
28 TMP	1,1-Dichloropropene	0.200	0.251	-25.5#	100	0.00
29 TMP	Carbon tetrachloride	0.200	0.208	-4.0	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.787	2.1	100	0.00
31 TMP	Benzene	0.200	0.196	2.0	100	0.00
32 TMP	Trichloroethene	0.200	0.199	0.5	100	0.00
33 TMP	1,2-Dichloropropane	0.200	0.111	44.5#	100	0.00
34 TMP	Bromodichloromethane	0.200	0.206	-3.0	100	0.00
35 S	Toluene-d8	10.000	9.728	2.7	100	0.00
36 TMP	Dibromomethane	0.200	0.183	8.5	100	0.00
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.200	0.187	6.5	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.200	0.212	-6.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.200	0.255	-27.5#	100	0.00
42 TMP	1,1,2-Trichloroethane	0.200	0.204	-2.0	100	0.00
43 TMP	2-Hexanone	-1.000	1.321	0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.200	0.199	0.5	100	0.00
45 TMP Tetrachloroethene	0.200	0.204	-2.0	100	0.00
46 TMP Dibromochloromethane	0.200	0.186	7.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.200	0.195	2.5	100	0.01
48 TMP Chlorobenzene	0.200	0.206	-3.0	100	0.00
49 TMP Ethylbenzene	0.200	0.196	2.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.200	0.216	-8.0	100	0.00
51 TMP m,p-Xylene	0.400	0.396	1.0	100	0.00
52 TMP o-Xylene	0.200	0.202	-1.0	100	0.00
53 TMP Styrene	0.200	0.219	-9.5	100	0.00
54 TMP Isopropylbenzene	0.200	0.205	-2.5	100	0.00
55 TMP Bromoform	0.200	0.180	10.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.162	-1.6	100	0.00
58 TMP n-Propylbenzene	0.200	0.228	-14.0	100	0.00
59 TMP Bromobenzene	0.200	0.213	-6.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.200	0.217	-8.5	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.200	0.191	4.5	100	0.00
62 TMP 1,2,3-Trichloropropane	0.200	0.203	-1.5	100	0.00
63 TMP 2-Chlorotoluene	0.200	0.203	-1.5	100	0.00
64 TMP 4-Chlorotoluene	0.200	0.226	-13.0	100	0.00
65 TMP tert-Butylbenzene	0.200	0.234	-17.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.200	0.246	-23.0#	100	0.00
67 TMP sec-Butylbenzene	0.200	0.199	0.5	100	0.00
68 TMP p-Isopropyltoluene	0.200	0.202	-1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	0.200	0.214	-7.0	100	0.00
70 TMP 1,4-Dichlorobenzene	0.200	0.215	-7.5	100	0.00
71 TMP 1,2-Dichlorobenzene	0.200	0.227	-13.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.200	0.207	-3.5	100	0.00
74 TMP Hexachlorobutadiene	0.200	0.235	-17.5	100	0.00
75 TMP Naphthalene	0.200	0.203	-1.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.200	0.193	3.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.05
3 S Dibromofluoromethane	0.319	0.316	0.9	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.599	-2.9	100	0.00
5 TMP Chloromethane	0.386	0.000#	100.0#	0#	-1.25#
6 TMP Vinyl chloride	0.373	0.354	5.1	105	0.00
7 TMP Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.200	0.000#	100.0#	0#	-1.64#
9 TMP Trichlorofluoromethane	1.015	0.000#	100.0#	0#	-1.83#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.05
11 TMP Acetone	0.022	0.000#	100.0#	0#	-2.32#
12 TMP 1,1-Dichloroethene	0.248	0.246	0.8	104	0.01
13 TMP Hexane	0.244	0.000#	100.0#	0#	0.00
14 TMP Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.022	0.000#	100.0#	0#	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.608	-2.0	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.276	-0.7	96	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.555	-4.1	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.341	0.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.293	-2.1	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.548	-84.5#	100	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.295	0.3	100	0.00
23 TMP Chloroform	0.441	0.492	-11.6	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.000#	100.0#	0#	-3.78#
25 TMP t-Amyl methyl ether (TAME)	0.551	0.555	-0.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.332	0.6	95	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.456	2.6	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.402	-25.6#	100	0.00
29 TMP Carbon tetrachloride	0.497	0.516	-3.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP Benzene	0.849	0.830	2.2	100	0.00
32 TMP Trichloroethene	0.304	0.302	0.7	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.242	-28.0#	100	0.00
34 TMP Bromodichloromethane	0.316	0.326	-3.2	100	0.00
35 S Toluene-d8	0.899	0.874	2.8	100	0.00
36 TMP Dibromomethane	0.173	0.158	8.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.000#	100.0#	0#	-6.01#
38 TMP cis-1,3-Dichloropropene	0.329	0.307	6.7	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.760	-5.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.454	-27.5#	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.208	-2.0	100	0.00
43 TMP 2-Hexanone	0.142	0.000#	100.0#	0#	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.337	0.3	100	0.00
45 TMP Tetrachloroethene	0.443	0.458	-3.4	100	0.00
46 TMP Dibromochloromethane	0.425	0.396	6.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.326	2.7	100	0.01
48 TMP Chlorobenzene	0.943	0.971	-3.0	100	0.00
49 TMP Ethylbenzene	1.560	1.520	2.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.445	-7.7	100	0.00
51 TMP m,p-Xylene	0.718	0.703	2.1	100	0.00
52 TMP o-Xylene	0.611	0.613	-0.3	100	0.00
53 TMP Styrene	0.848	0.930	-9.7	100	0.00
54 TMP Isopropylbenzene	1.353	1.388	-2.6	100	0.00
55 TMP Bromoform	0.302	0.272	9.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.616	-1.7	100	0.00
58 TMP n-Propylbenzene	2.257	2.573	-14.0	100	0.00
59 TMP Bromobenzene	0.821	0.874	-6.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.995	-8.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.440#	-1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.343#	-1.8	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.301	-1.5	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.750	-12.8	100	0.00
65 TMP tert-Butylbenzene	1.946	2.280	-17.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.429	-23.0#	100	0.00
67 TMP sec-Butylbenzene	2.396	2.383	0.5	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.418	-0.8	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.579	-7.0	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.567	-7.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.611	-13.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.997	1.031	-3.4	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.692	-17.7	100	0.00
75 TMP Naphthalene	1.938	1.968	-1.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.760	3.7	100	0.00

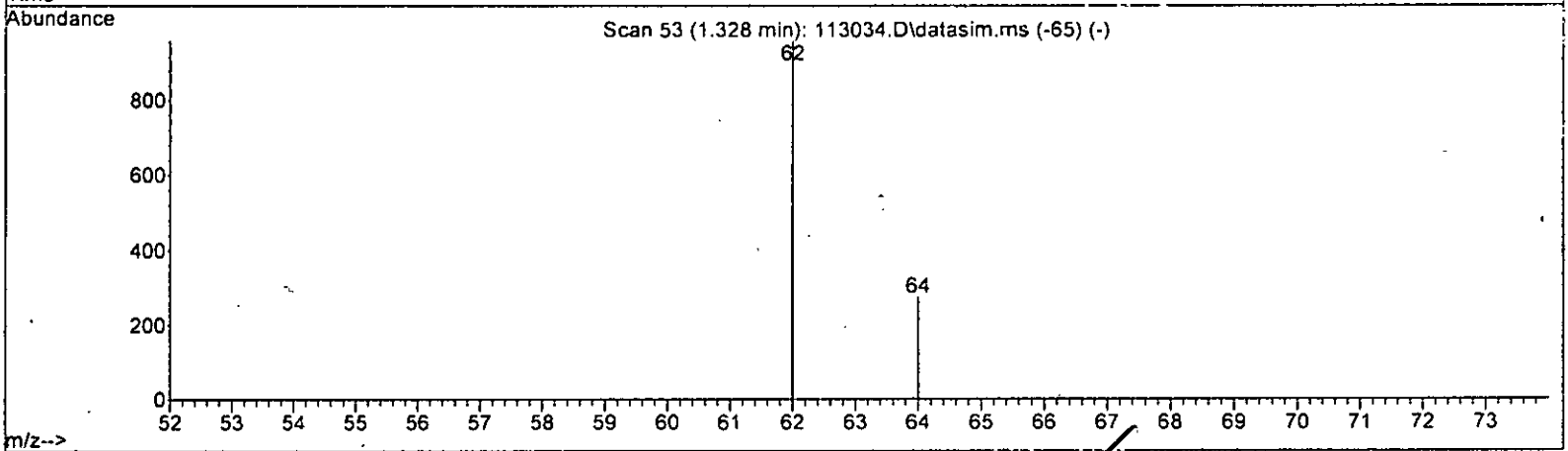
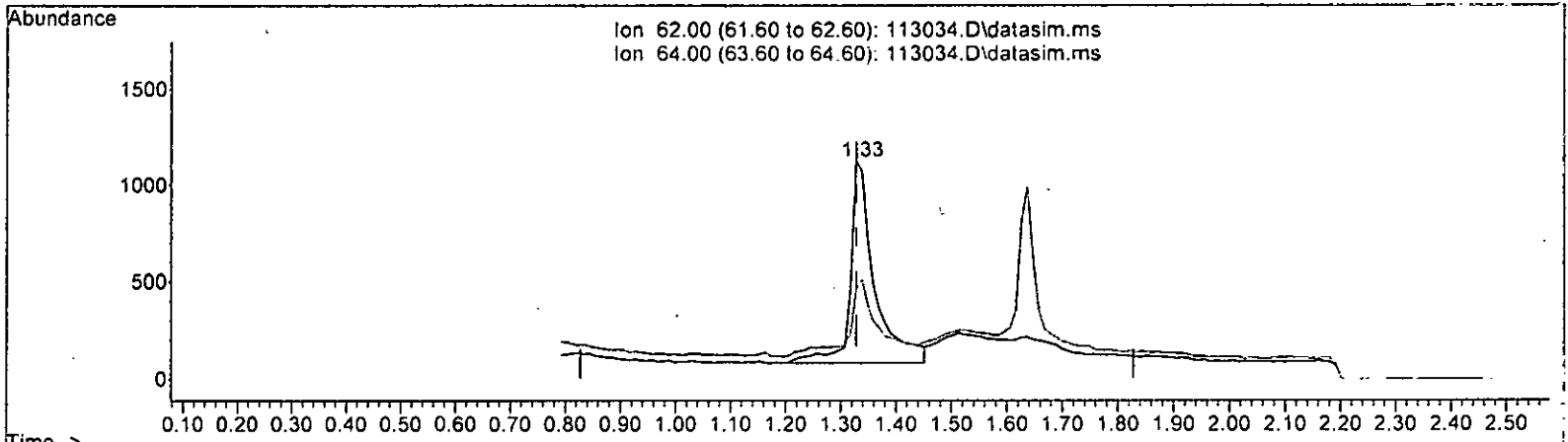
(#) = Out of Range

SPCC's out = 15 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

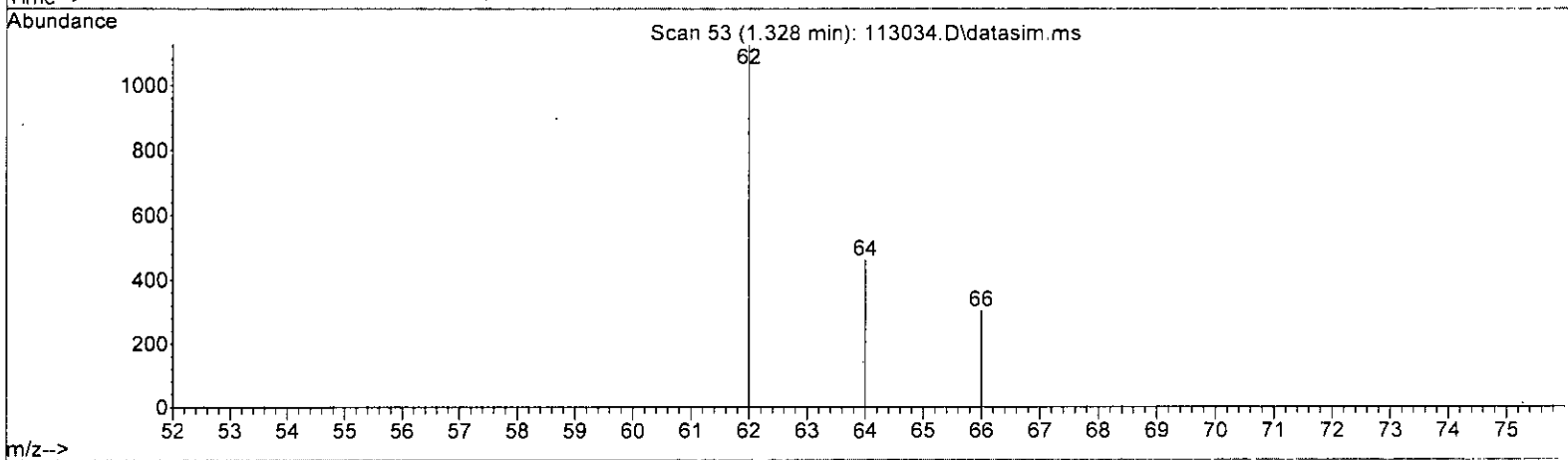
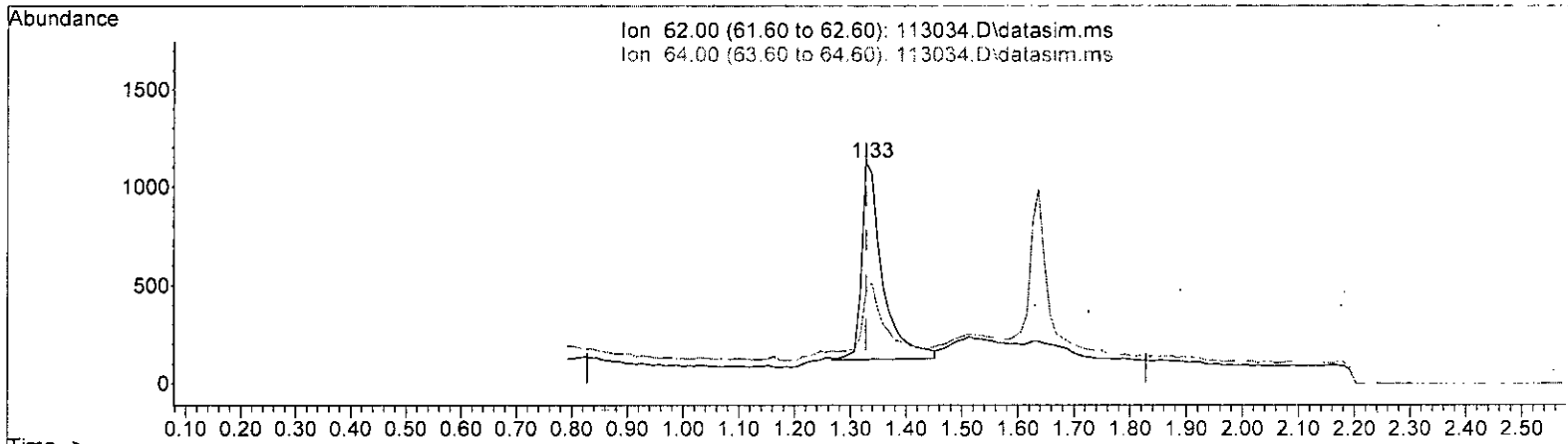
M 12.1

(6) Vinyl chloride (TMP)			
1.328min (-0.000) 0.691 ppb			
response	3185		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	30.20	32.66	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(6) Vinyl chloride (TMP)

1.328min (-0.000) 0.564 ppb m

response 2598

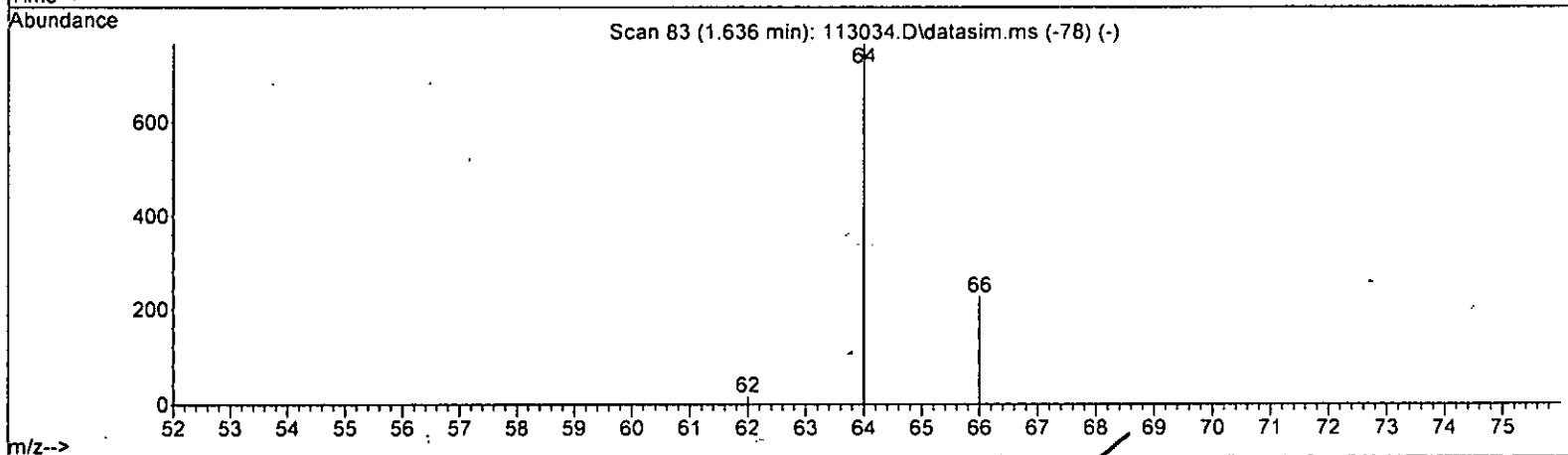
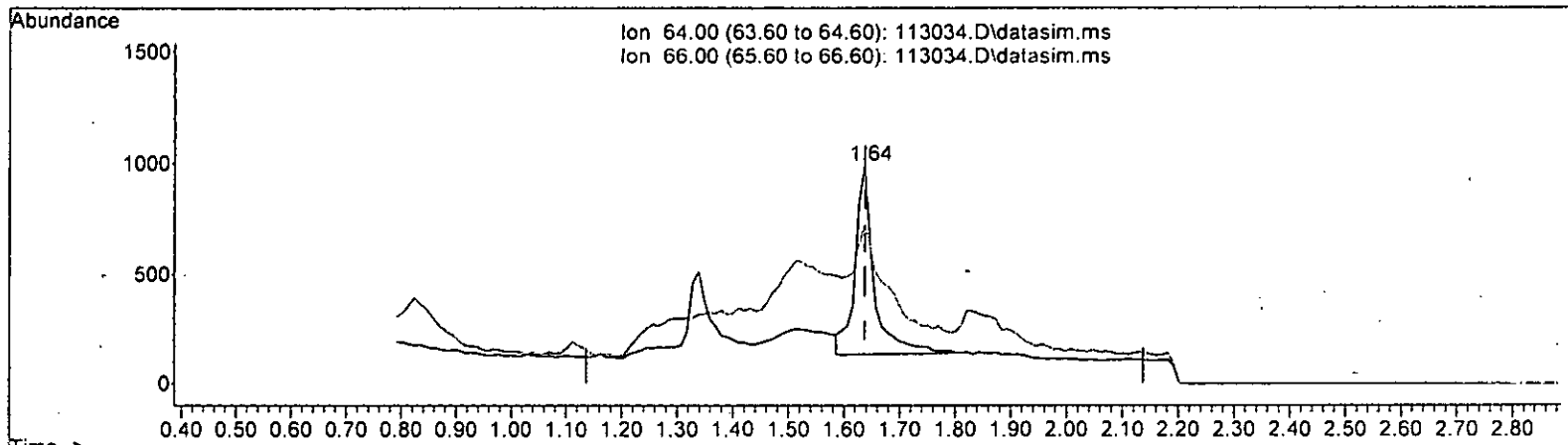
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	40.76
0.00	0.00	0.00
0.00	0.00	0.00

M 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(8) Chloroethane (TMP)

1.636min (-0.001) 0.829 ppb

response 2045

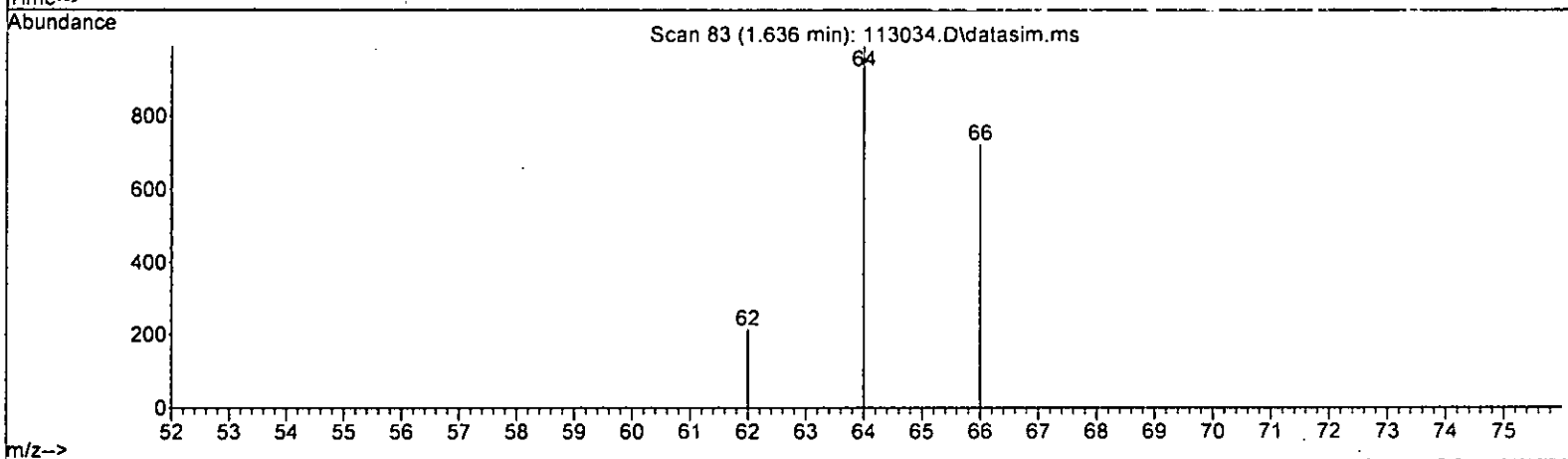
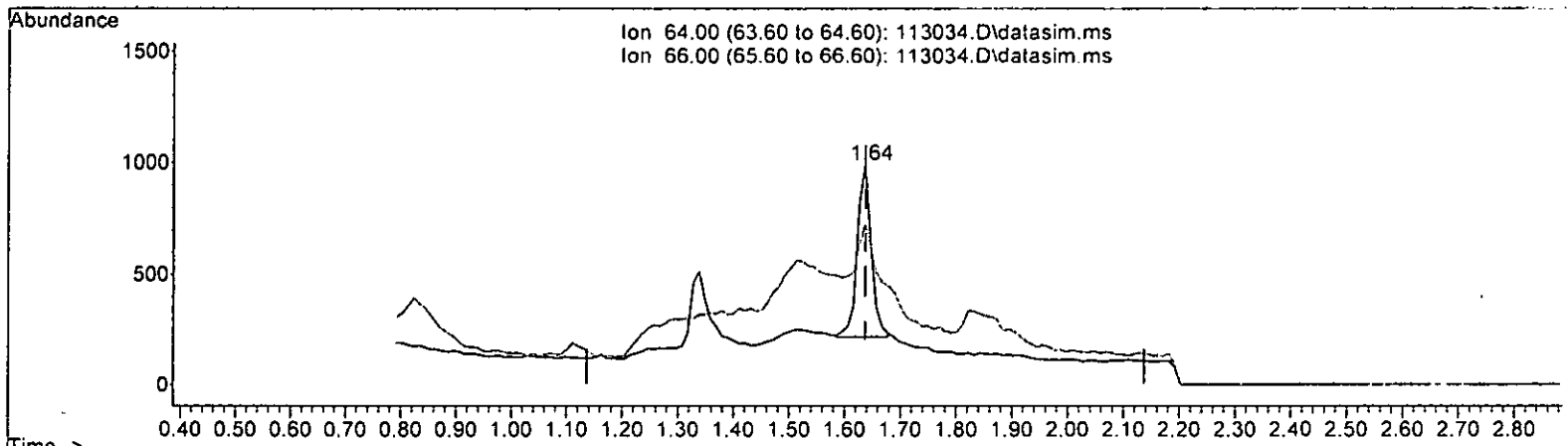
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	52.94
0.00	0.00	0.00
0.00	0.00	0.00

*m/z*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

*m 12.1*

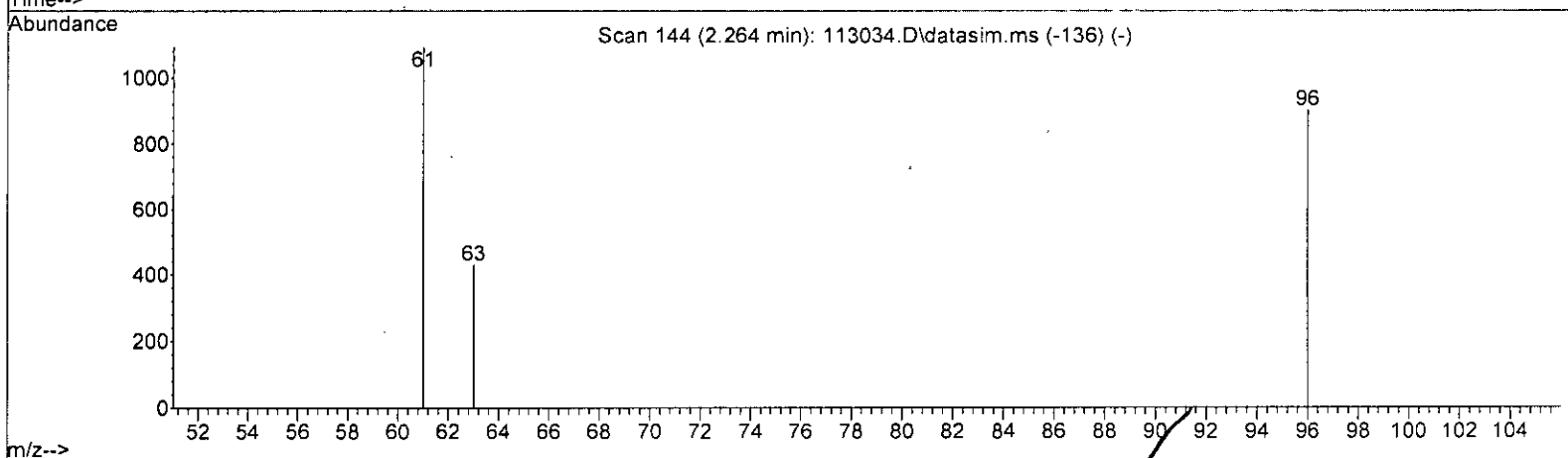
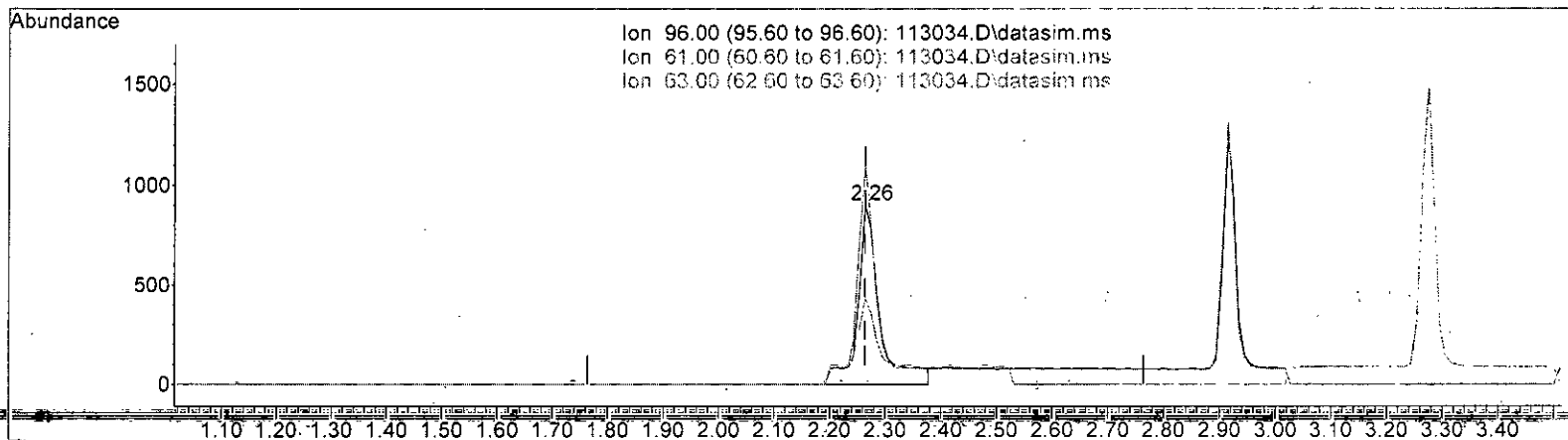
(8) Chloroethane (TMP)		
1.636min (-0.001)	0.548 ppb m	
response	1353	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	72.87#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.264min (+ 0.000) 0.812 ppb

response 2486

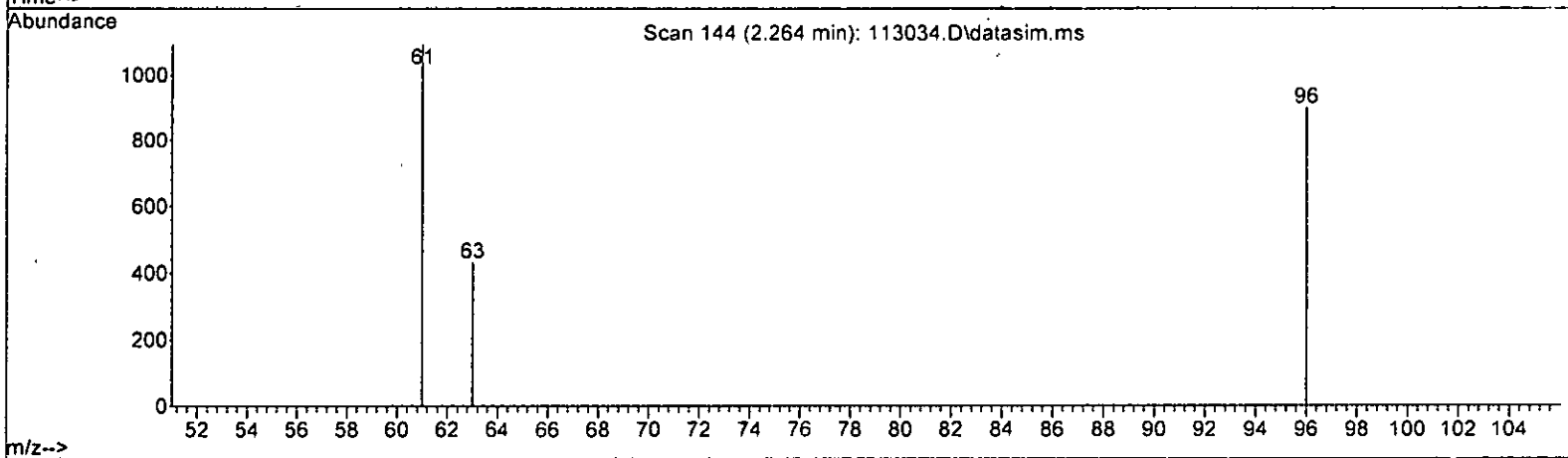
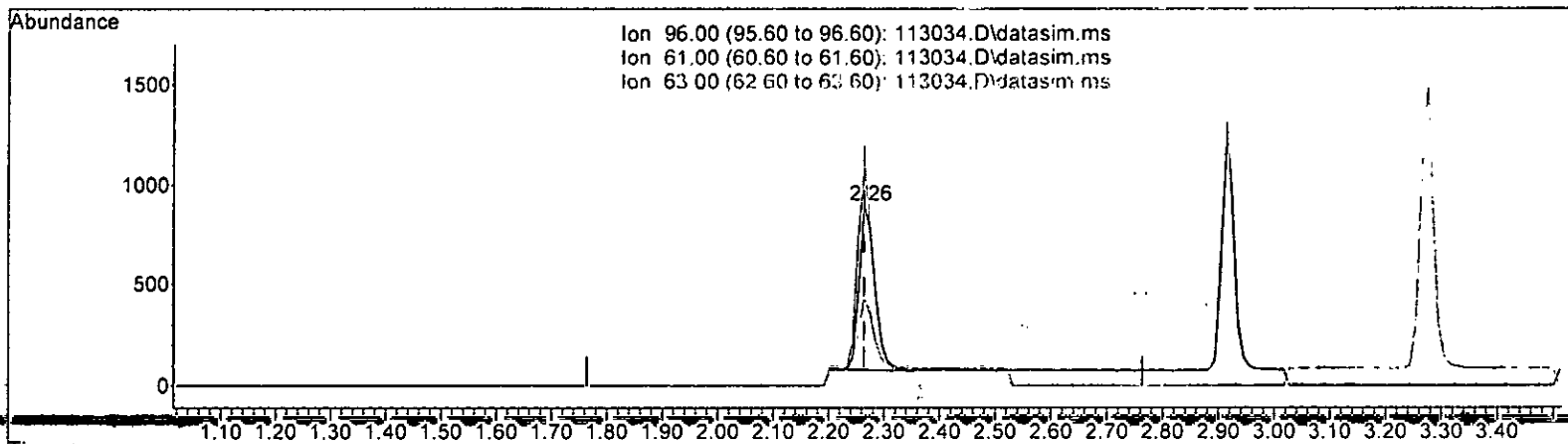
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	121.33
63.00	41.10	47.78
0.00	0.00	0.00

m/z 121

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.264min (+ 0.000). 0.527 ppb m

response 1612

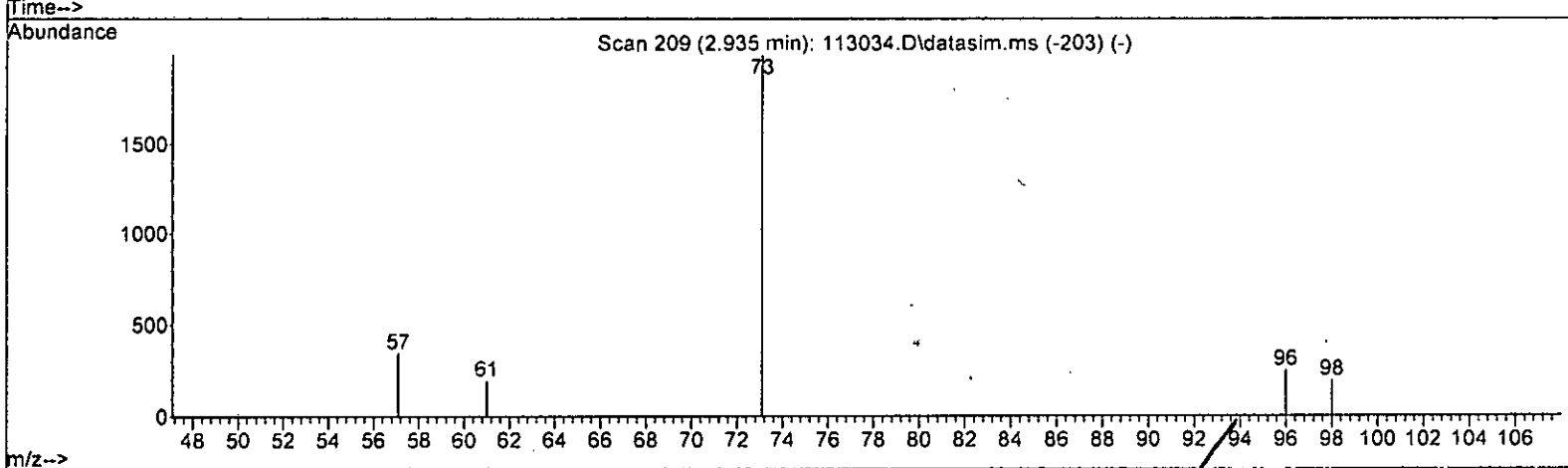
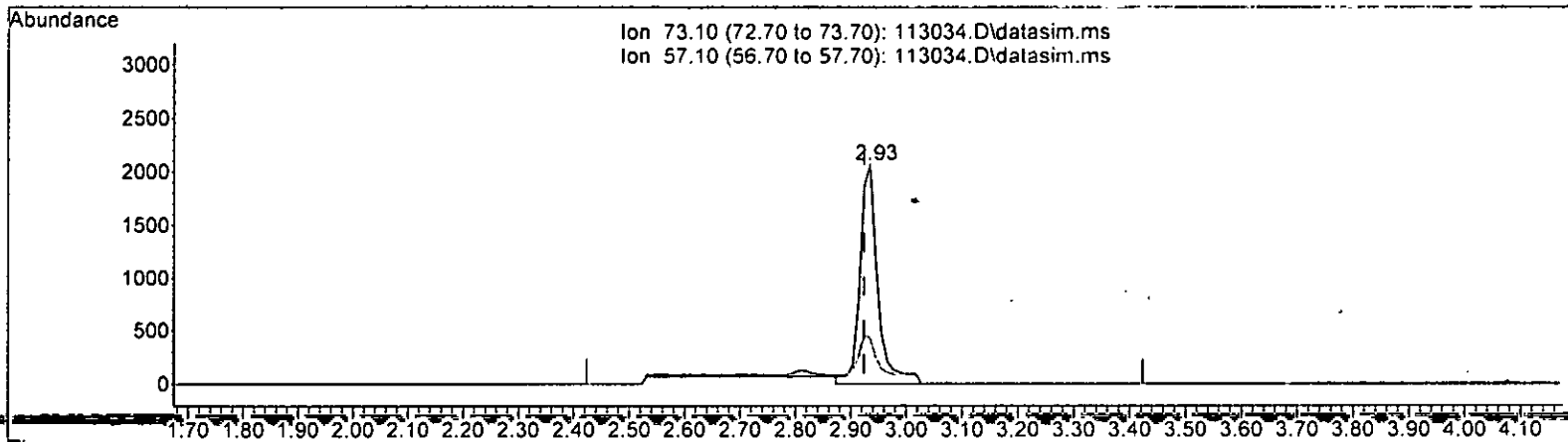
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	121.33
63.00	41.10	47.78
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.935min (+ 0.011) 0.621 ppb

response 4570

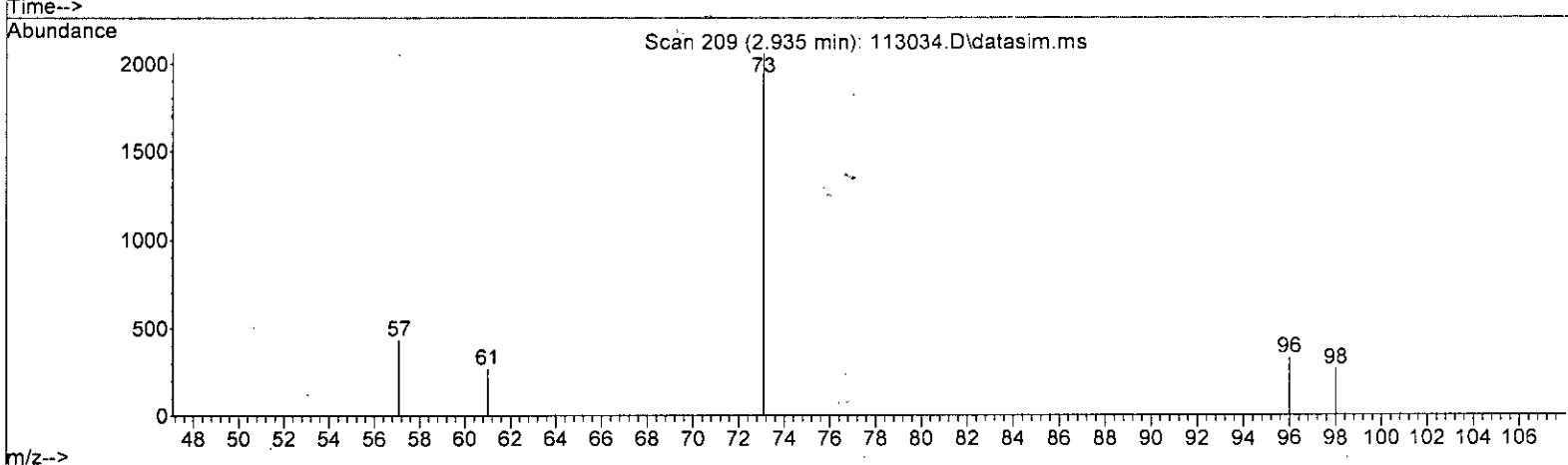
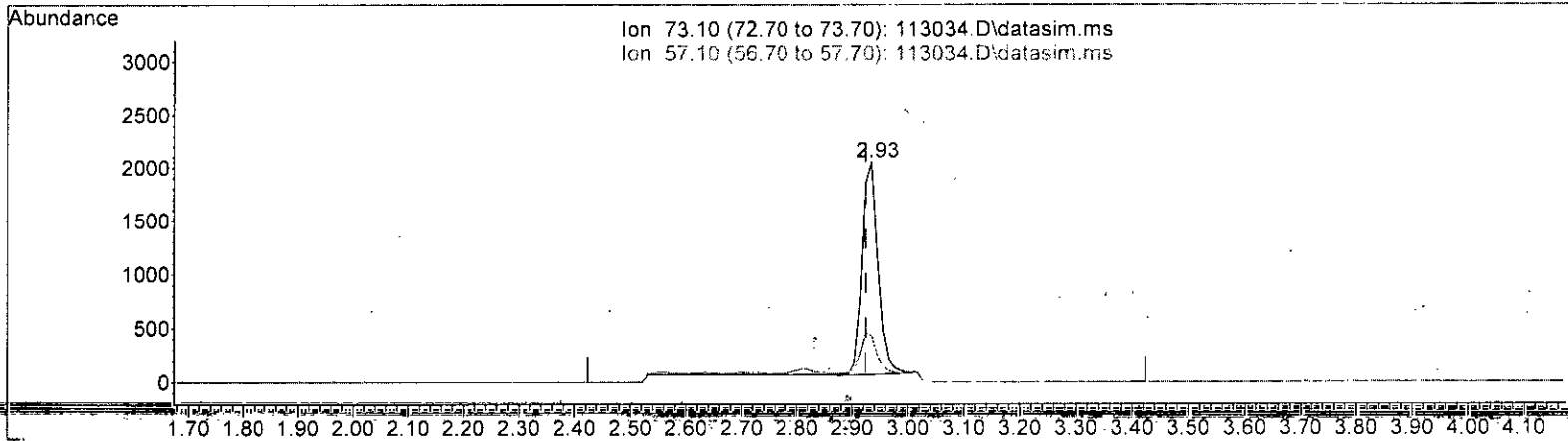
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	20.88
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.935min (+ 0.011) 0.535 ppb m

response 3934

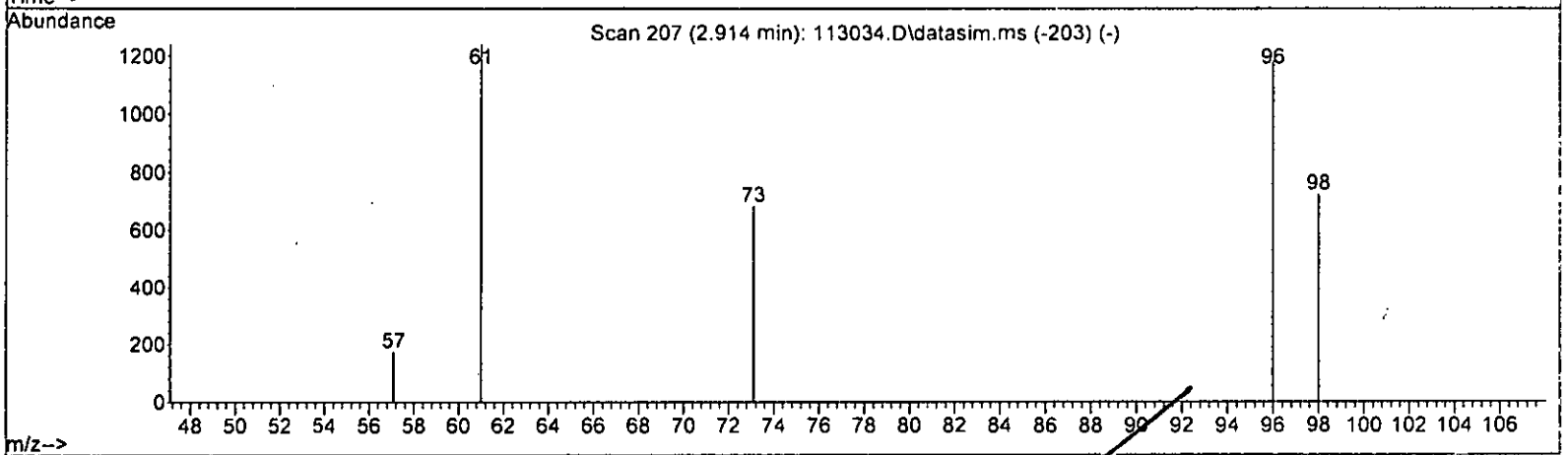
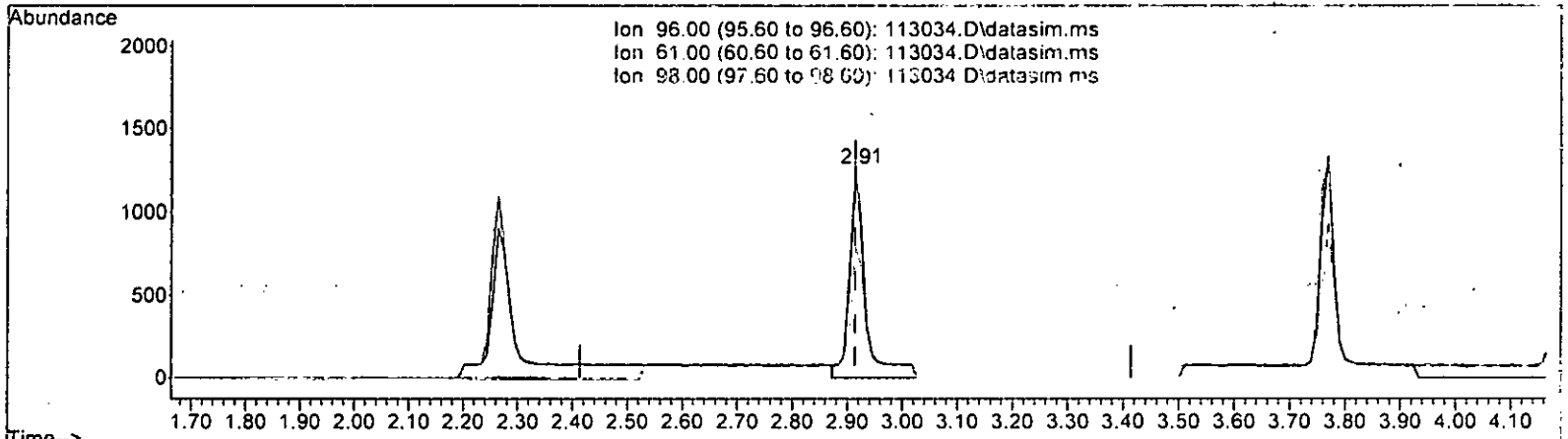
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	20.88
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.914min (-0.000) 0.730 ppb

response 2473

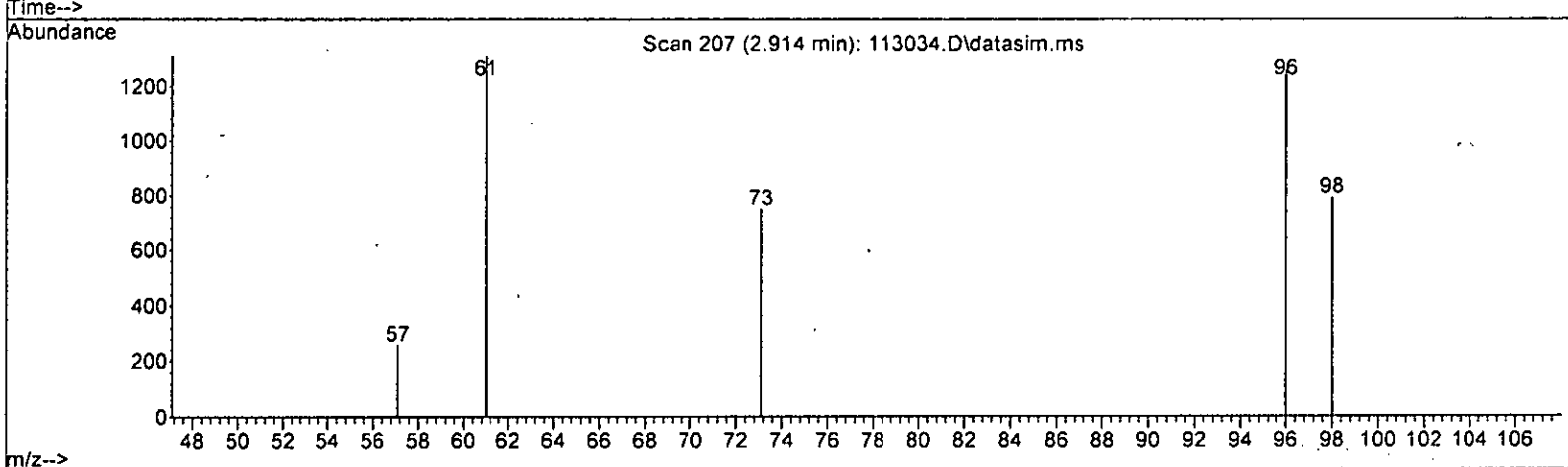
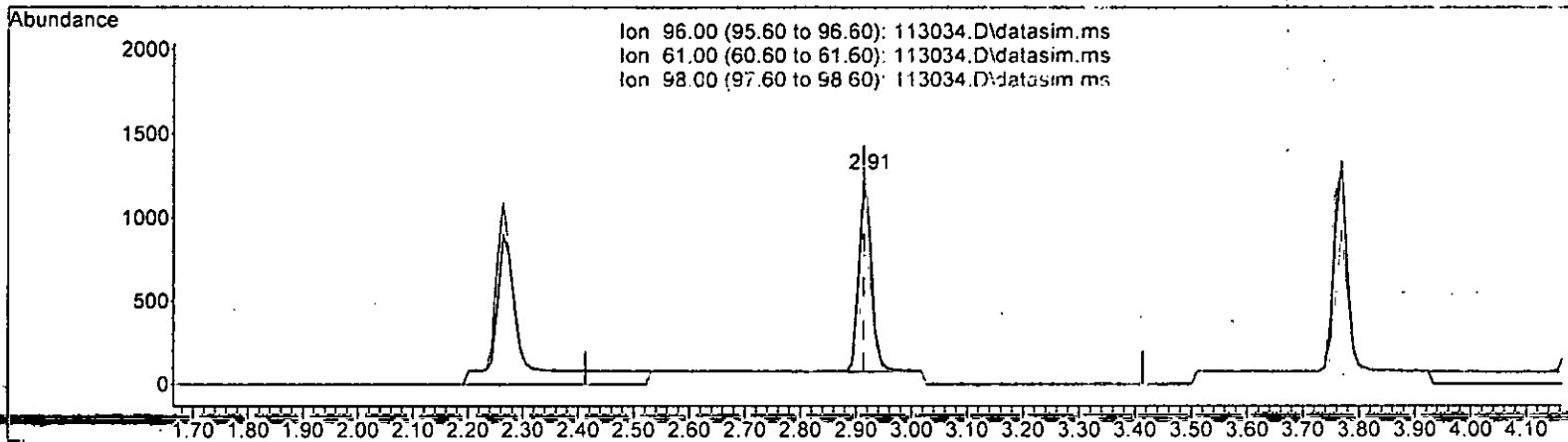
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	104.13
98.00	62.70	62.96
0.00	0.00	0.00

*W 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) M121

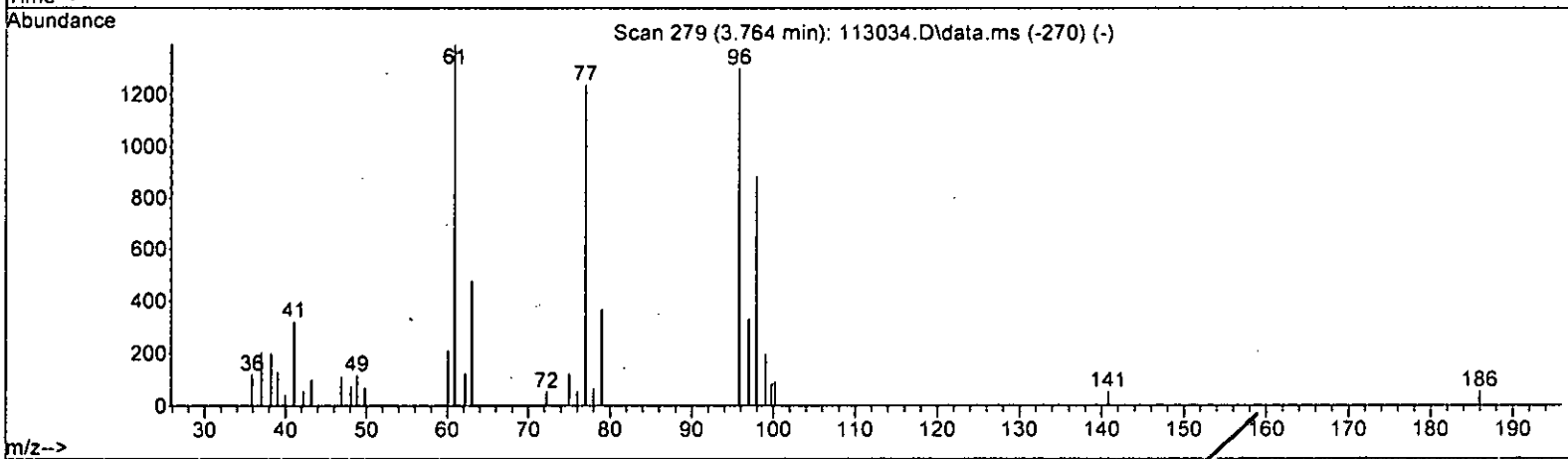
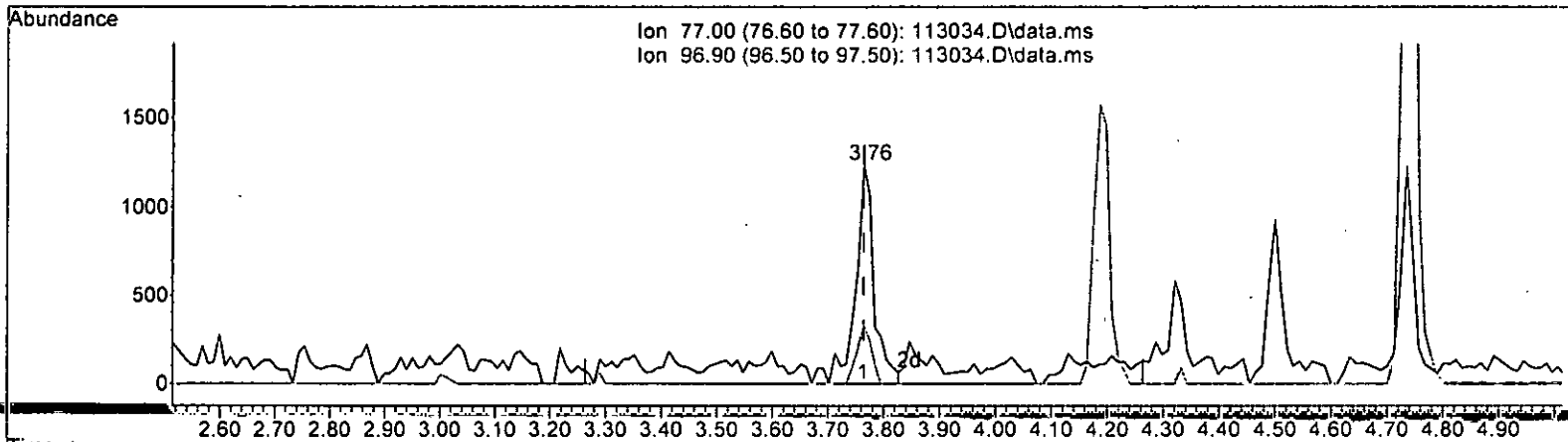
2.914min (-0.000) 0.538 ppb m

response	1822
Ion	Exp% Act%
96.00	100.00 100.00
61.00	107.00 104.13
98.00	62.70 62.96
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(21) 2,2-Dichloropropane (TMP)

3.764min (-0.000) 0.677 ppb

response 2896

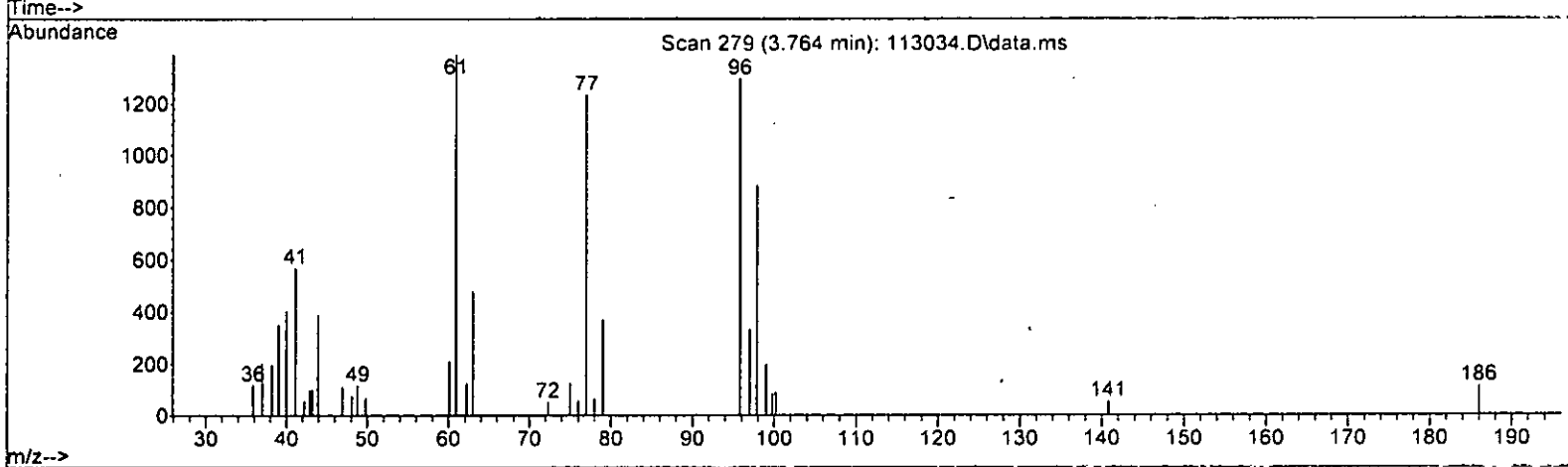
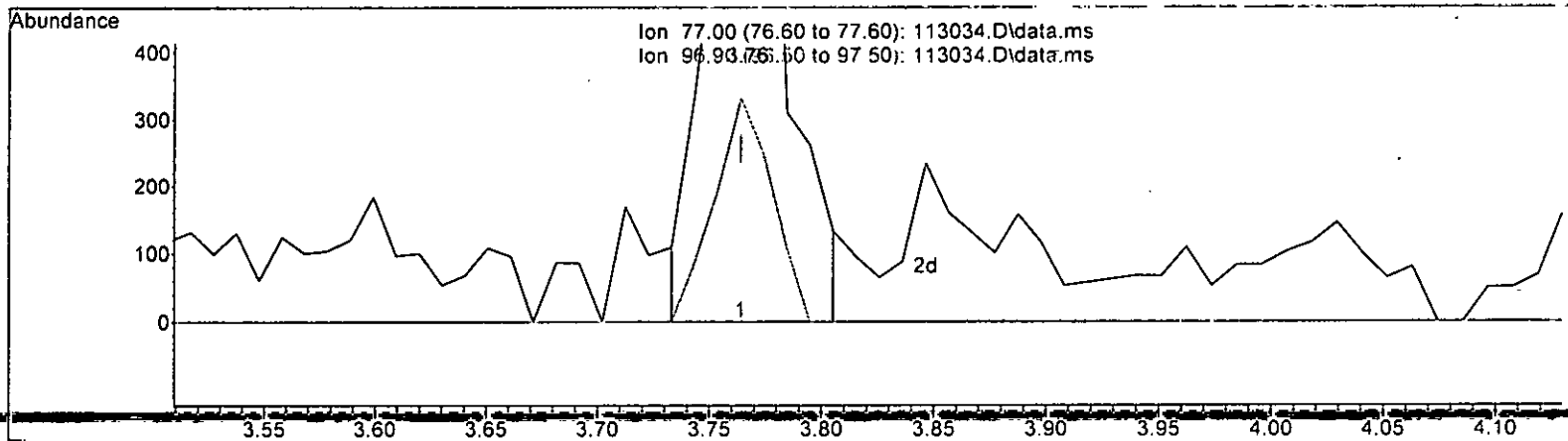
Ion	Exp%	Act%
77.00	100.00	100.00
96.90	32.00	26.90
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(21) 2,2-Dichloropropane (TMP) *W 12.1*

3.764min (-0.000) 0.528 ppb m

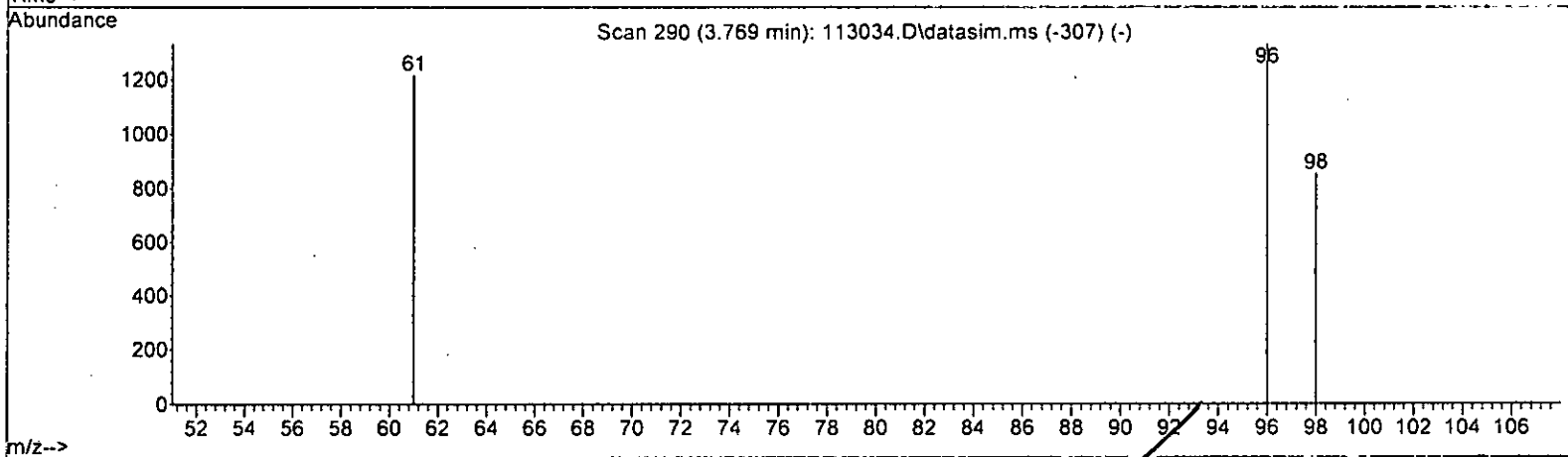
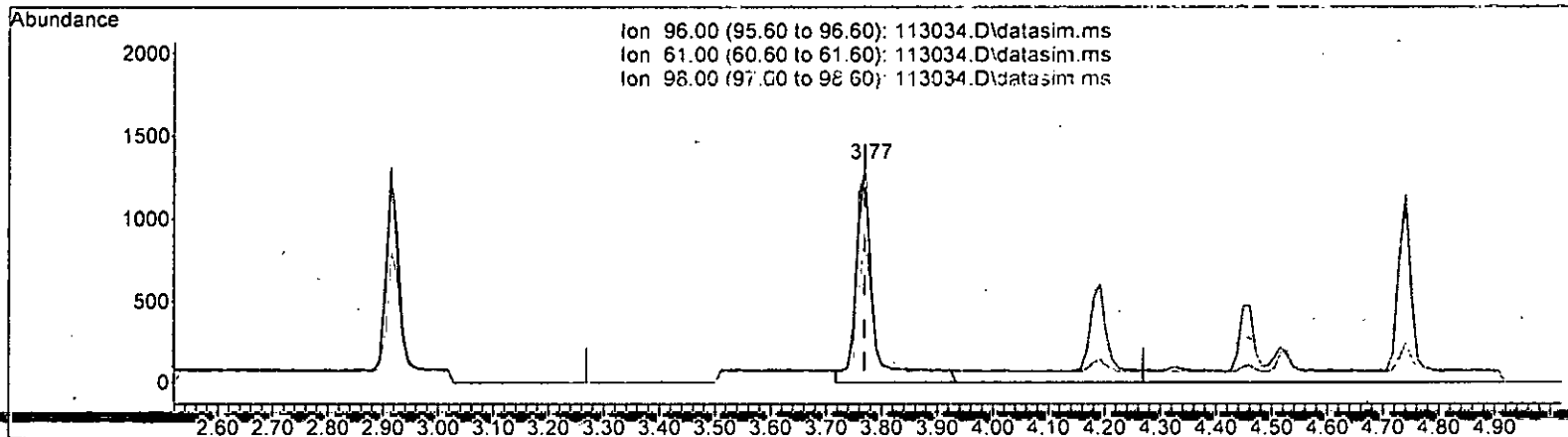
response	2458
Ion	Exp% Act%
77.00	100.00 100.00
96.90	32.00 26.90
0.00	0.00 0.00
0.00	0.00 0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(22) cis-1,2-Dichloroethene (TMP)

3.769min (-0.000) 0.801 ppb

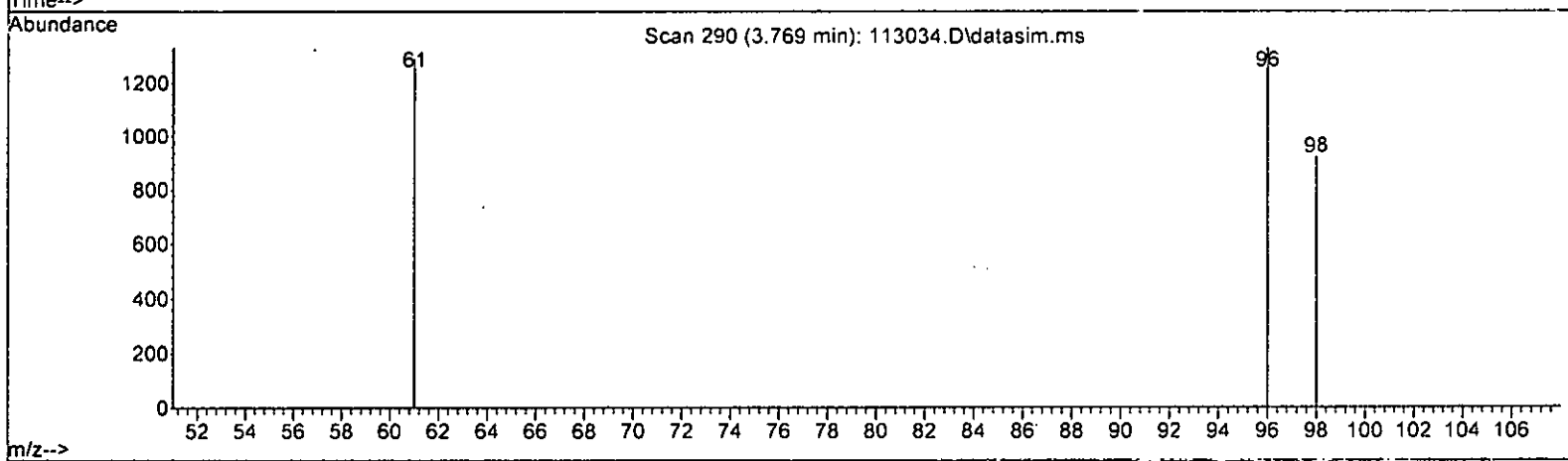
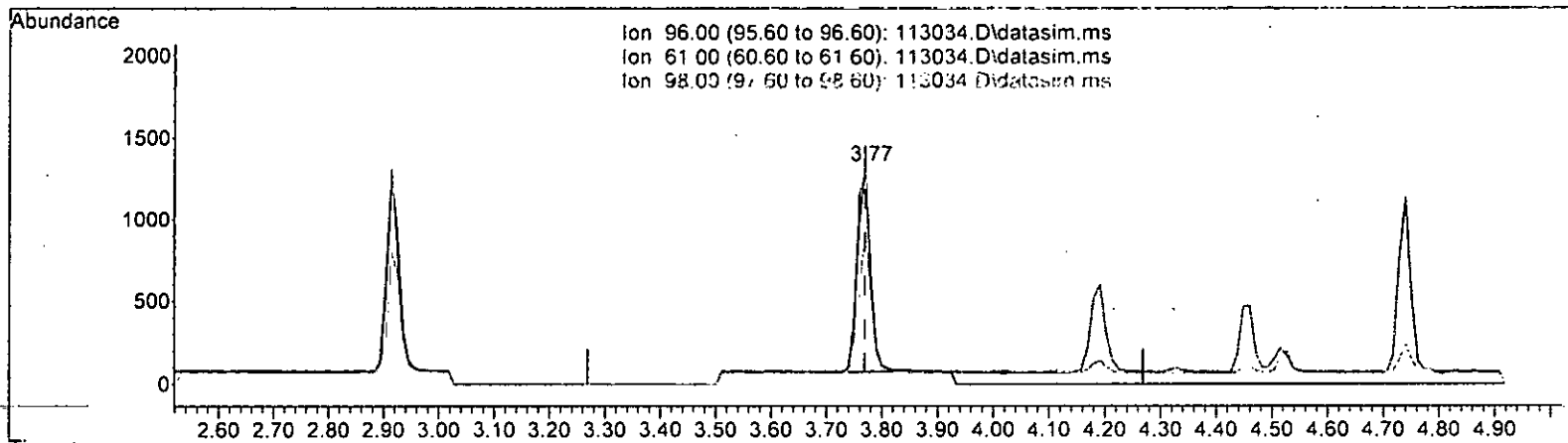
response	2931
Ion	Exp% Act%
96.00	100.00 100.00
61.00	97.00 91.35
98.00	68.10 64.36
0.00	0.00 0.00

M12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(22) cis-1,2-Dichloroethene (TMP)

3.769min (-0.000) 0.538 ppb m

response 1968

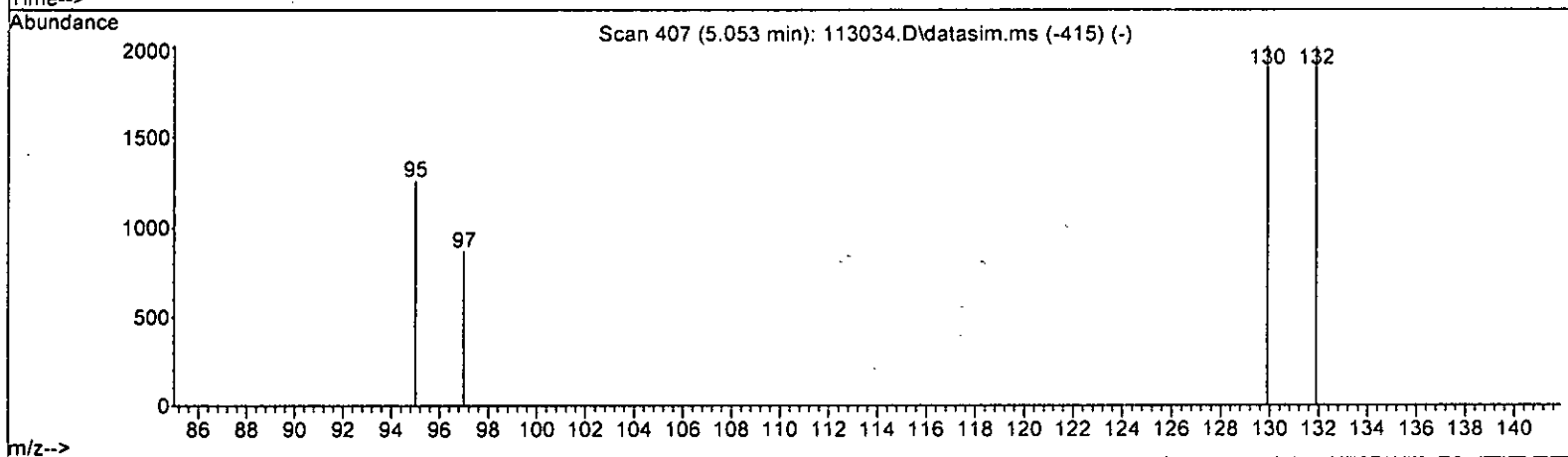
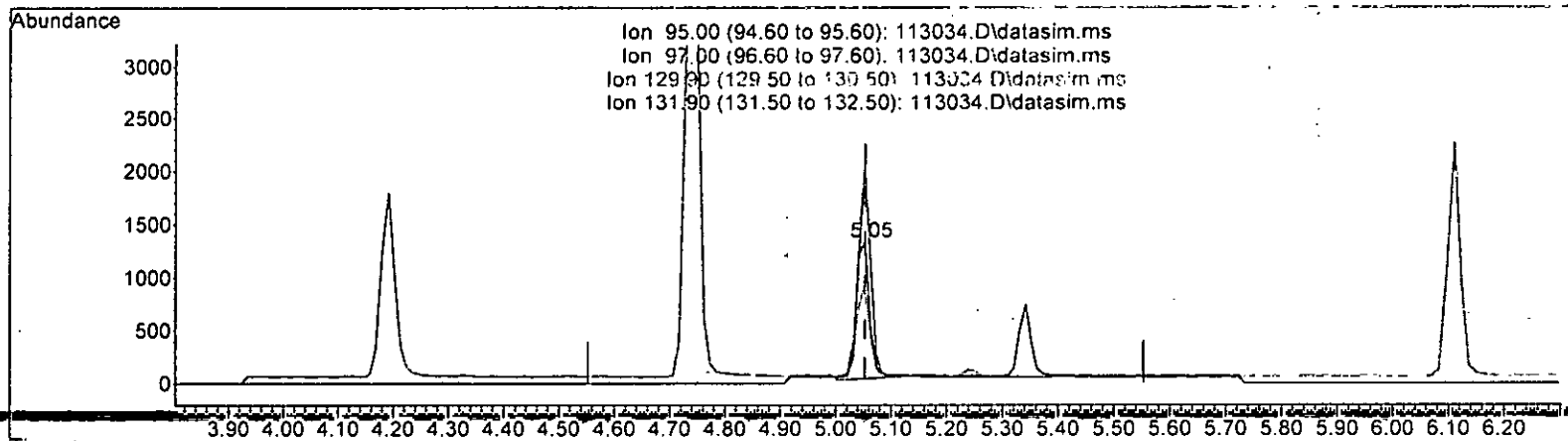
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	97.00	96.99
98.00	68.10	69.47
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(32) Trichloroethene (TME) *M 12.1*

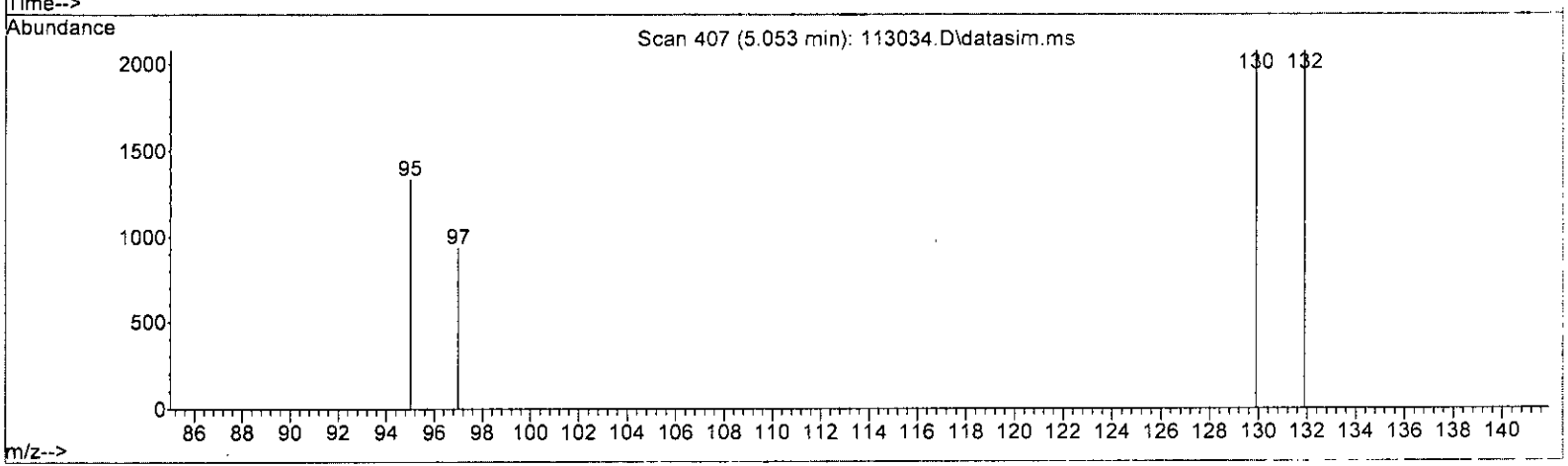
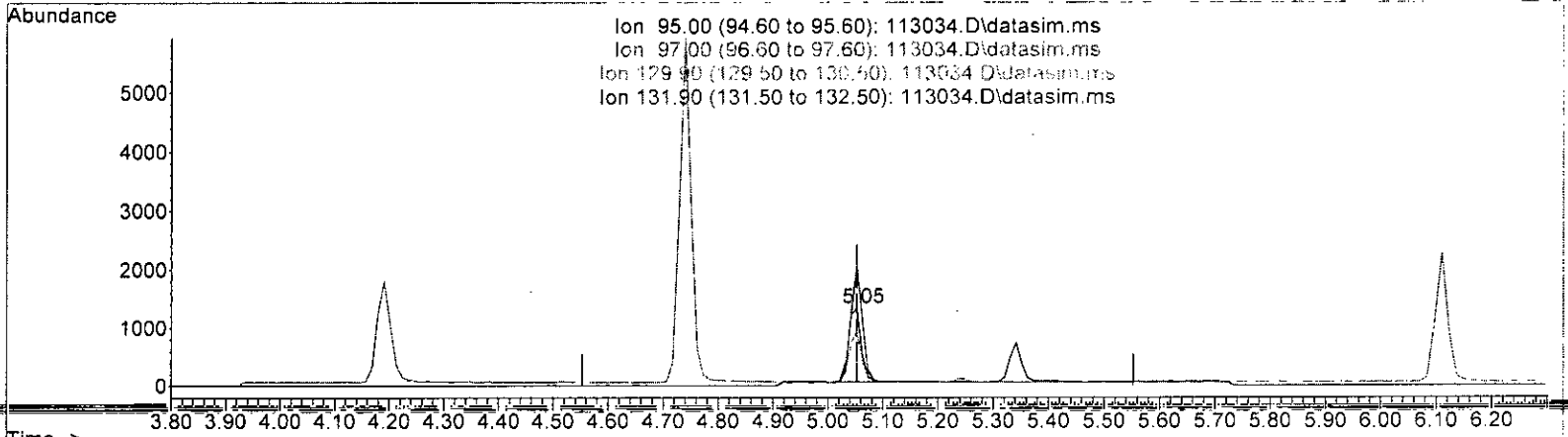
5.053min (-0.000) 0.596 ppb

response	2236
Ion	Exp% Act%
95.00	100.00 100.00
97.00	69.90 68.62
129.90	161.00 159.98
131.90	160.10 159.35

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(32) Trichloroethene (TMP)

5.053min (-0.000) 0.558 ppb m

response 2096

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	70.10
129.90	161.00	155.97
131.90	160.10	155.30

*LM 12.1*

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	123466	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	111984	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	68714	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	41571	10.569	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	= 105.70%			
30) 1,2-Dichloroethane-d4	4.45	102	7900	10.716	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery	= 107.20%			
35) Toluene-d8	6.11	98	116986	10.541	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery	= 105.40%			
57) 4-Bromofluorobenzene	8.51	95	43280	10.394	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery	= 103.90%			
Target Compounds							
							Qvalue
2) Ethanol	2.35	45	207	No Calib			
4) Dichlorodifluoromethane	1.11	85	4074	0.567	ppb		92
5) Chloromethane	0.00		0	N.D. d			
6] Vinyl chloride	1.33	62	2598m	0.564	ppb		
7) Bromomethane	0.00		0	N.D. d			
8] Chloroethane	1.64	64	1353m	0.548	ppb		
9) Trichlorofluoromethane	0.00		0	N.D. d			
10) 2-Propanol	2.35	45	207	No Calib			
11) Acetone	0.00		0	N.D. d			
12] 1,1-Dichloroethene	2.26	96	1612m	0.527	ppb		
13) Hexane	0.00		0	N.D. d			
14) Methylene chloride	0.00		0	N.D. d			
15) t-Butyl alcohol (TBA)	0.00		0	N.D. d			
16] Methyl t-butyl ether (...)	2.93	73	3934m	0.535	ppb		
17] trans-1,2-Dichloroethene	2.91	96	1822m	0.538	ppb		
18) Diisopropyl ether (DIPE)	3.34	45	3332	0.506	ppb		90
19] 1,1-Dichloroethane	3.27	63	2275	0.541	ppb		100
20) Ethyl t-butyl ether (E...)	3.65	87	1826	0.515	ppb		93
21) 2,2-Dichloropropane	3.76	77	2896	0.677	ppb		91
22] cis-1,2-Dichloroethene	3.77	96	1968m	0.538	ppb		
23) Chloroform	4.04	83	2934	0.538	ppb		97
24) 2-Butanone (MEK)	3.79	43	3573	3.132	ppb		84
25) t-Amyl methyl ether (T...)	4.61	73	3699	0.544	ppb		98
26] 1,2-Dichloroethane (EDC)	4.52	62	2080	0.535	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	3136	0.543	ppb		100
28) 1,1-Dichloropropene	4.32	75	2041	0.516	ppb		89
29) Carbon tetrachloride	4.32	117	3273	0.533	ppb		100
31] Benzene	4.50	78	5597	0.560	ppb		100
32] Trichloroethene	5.05	95	2096m	0.558	ppb		
33) 1,2-Dichloropropane	5.24	63	1606	0.607	ppb	#	81
34) Bromodichloromethane	5.48	83	2332	0.597	ppb		73
36) Dibromomethane	5.34	93	1174	0.551	ppb		77

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

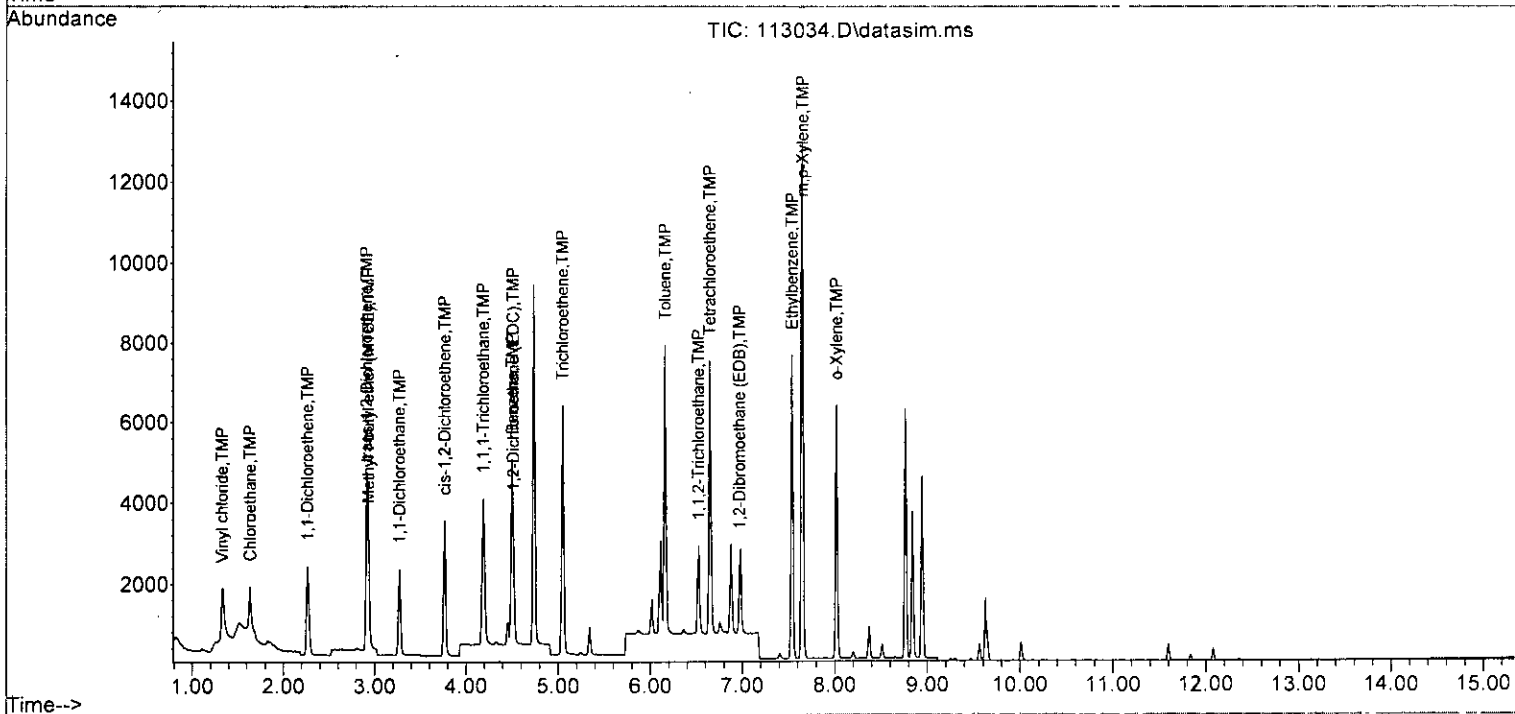
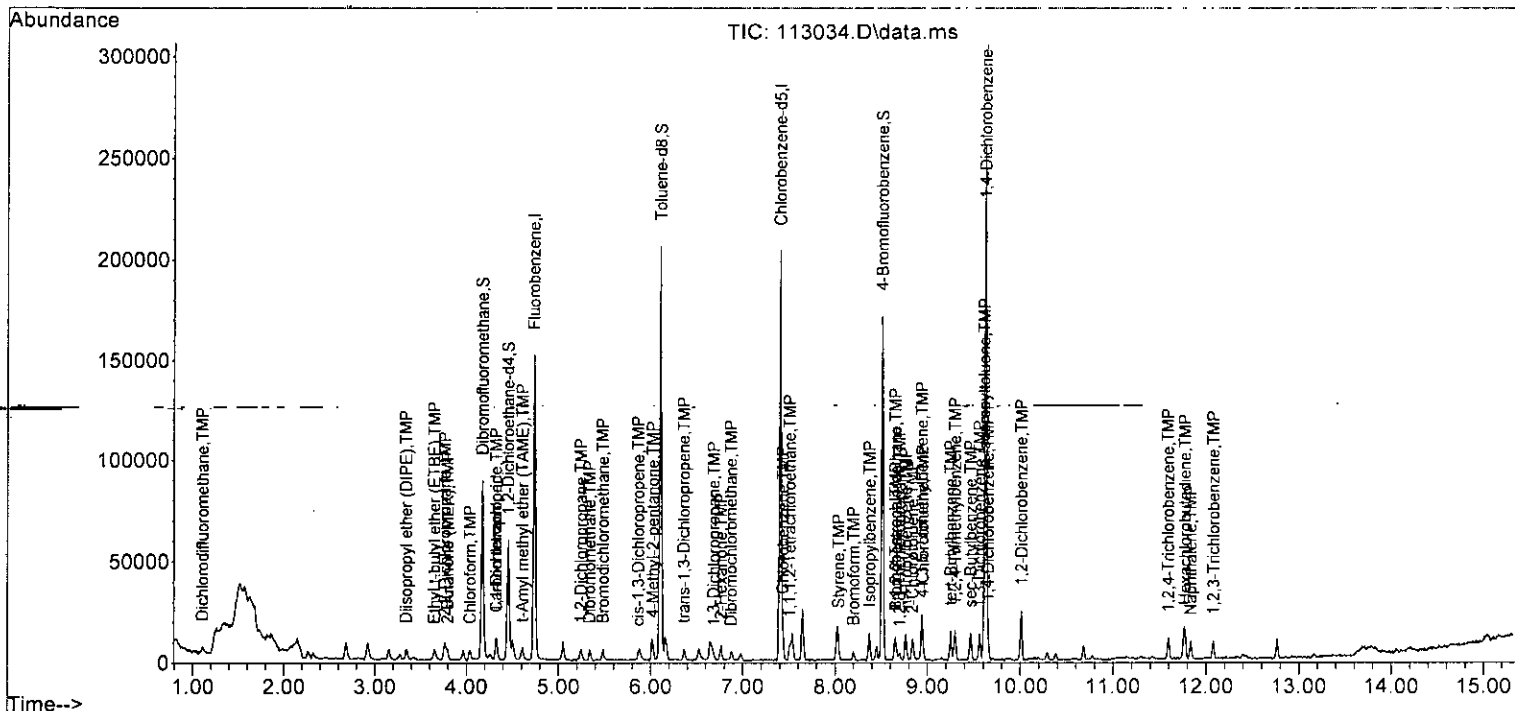
Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	1358	2.771	ppb	# 77
38) cis-1,3-Dichloropropene	5.86	75	2256	0.556	ppb	83
40] Toluene	6.16	92	3979	0.505	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	1755	0.441	ppb	88
42] 1,1,2-Trichloroethane	6.53	83	1124	0.506	ppb	98
43) 2-Hexanone	6.76	43	4000	2.524	ppb	95
44) 1,3-Dichloropropane	6.68	76	2184	0.577	ppb	93
45] Tetrachloroethene	6.65	164	2454	0.496	ppb	99
46) Dibromochloromethane	6.87	129	2235	0.469	ppb	96
47] 1,2-Dibromoethane (EDB)	6.97	107	1851	0.514	ppb	98
48) Chlorobenzene	7.43	112	5481	0.519	ppb	98
49] Ethylbenzene	7.54	91	7706	0.508	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	2232	0.483	ppb	87
51] m,p-Xylene	7.65	106	6952	1.022	ppb	99
52] o-Xylene	8.02	106	3259	0.511	ppb	99
53) Styrene	8.03	104	4674	0.492	ppb	92
54) Isopropylbenzene	8.37	105	7720	0.509	ppb	95
55) Bromoform	8.20	173	1618	0.478	ppb	87
58) n-Propylbenzene	8.77	91	8342	0.538	ppb	98
59) Bromobenzene	8.65	156	2760	0.489	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	6683	0.530	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.65	83	1576	0.522	ppb	88
62) 1,2,3-Trichloropropane	8.70	75	1475	0.636	ppb	89
63) 2-Chlorotoluene	8.84	91	4485	0.509	ppb	97
64) 4-Chlorotoluene	8.95	91	5624	0.527	ppb	84
65) tert-Butylbenzene	9.25	119	6719	0.502	ppb	96
66) 1,2,4-Trimethylbenzene	9.30	105	7096	0.523	ppb	97
67) sec-Butylbenzene	9.46	105	8310	0.505	ppb	97
68) p-Isopropyltoluene	9.61	119	8290	0.503	ppb	92
69) 1,3-Dichlorobenzene	9.56	146	5246	0.517	ppb	95
70) 1,4-Dichlorobenzene	9.65	146	5144	0.514	ppb	96
71) 1,2-Dichlorobenzene	10.01	146	5018	0.514	ppb	95
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.59	180	3298	0.481	ppb	99
74) Hexachlorobutadiene	11.77	225	2153	0.533	ppb	95
75) Naphthalene	11.83	128	6397	0.480	ppb	99
76) 1,2,3-Trichlorobenzene	12.08	180	2859	0.527	ppb	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCM513

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	100	0.02
3 S	Dibromofluoromethane	10.000	10.569	-5.7	100	0.00
4 TMP	Dichlorodifluoromethane	0.500	0.567	-13.4	100	0.00
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.500	0.564	-12.8	115	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	0.500	0.548	-9.6	103	0.00
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.83#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.500	0.527	-5.4	100	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.16#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.500	0.535	-7.0	98	0.01
17 TMP	trans-1,2-Dichloroethene	0.500	0.538	-7.6	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.500	0.506	-1.2	100	0.00
19 TMP	1,1-Dichloroethane	0.500	0.541	-8.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.500	0.515	-3.0	100	0.00
21 TMP	2,2-Dichloropropane	0.500	0.528	-5.6	85	0.00
22 TMP	cis-1,2-Dichloroethene	0.500	0.538	-7.6	97	0.00
23 TMP	Chloroform	0.500	0.538	-7.6	100	0.00
24 TMP	2-Butanone (MEK)	2.500	3.132	-25.3#	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.500	0.544	-8.8	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.500	0.535	-7.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.500	0.543	-8.6	100	0.00
28 TMP	1,1-Dichloropropene	0.500	0.516	-3.2	100	-0.01
29 TMP	Carbon tetrachloride	0.500	0.533	-6.6	100	-0.01
30 S	1,2-Dichloroethane-d4	10.000	10.716	-7.2	100	0.00
31 TMP	Benzene	0.500	0.560	-12.0	100	0.00
32 TMP	Trichloroethene	0.500	0.558	-11.6	100	0.00
33 TMP	1,2-Dichloropropane	0.500	0.607	-21.4#	100	0.00
34 TMP	Bromodichloromethane	0.500	0.597	-19.4	100	0.00
35 S	Toluene-d8	10.000	10.541	-5.4	100	0.00
36 TMP	Dibromomethane	0.500	0.551	-10.2	100	0.00
37 TMP	4-Methyl-2-pentanone	2.500	2.771	-10.8	100	0.01
38 TMP	cis-1,3-Dichloropropene	0.500	0.556	-11.2	100	-0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.500	0.505	-1.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.500	0.441	11.8	100	0.00
42 TMP	1,1,2-Trichloroethane	0.500	0.506	-1.2	100	0.00
43 TMP	2-Hexanone	2.500	2.524	-1.0	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.500	0.577	-15.4	100	0.01
45 TMP Tetrachloroethene	0.500	0.496	0.8	100	0.00
46 TMP Dibromochloromethane	0.500	0.469	6.2	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.500	0.514	-2.8	100	0.00
48 TMP Chlorobenzene	0.500	0.519	-3.8	100	0.00
49 TMP Ethylbenzene	0.500	0.508	-1.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.500	0.483	3.4	100	0.00
51 TMP m,p-Xylene	1.000	1.022	-2.2	100	0.00
52 TMP o-Xylene	0.500	0.511	-2.2	100	0.00
53 TMP Styrene	0.500	0.492	1.6	100	0.00
54 TMP Isopropylbenzene	0.500	0.509	-1.8	100	0.00
55 TMP Bromoform	0.500	0.478	4.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.394	-3.9	100	0.00
58 TMP n-Propylbenzene	0.500	0.538	-7.6	100	0.00
59 TMP Bromobenzene	0.500	0.489	2.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.500	0.530	-6.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.500	0.522	-4.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.500	0.636	-27.2#	100	0.00
63 TMP 2-Chlorotoluene	0.500	0.509	-1.8	100	0.00
64 TMP 4-Chlorotoluene	0.500	0.527	-5.4	100	0.00
65 TMP tert-Butylbenzene	0.500	0.502	-0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.500	0.523	-4.6	100	0.00
67 TMP sec-Butylbenzene	0.500	0.505	-1.0	100	0.00
68 TMP p-Isopropyltoluene	0.500	0.503	-0.6	100	0.00
69 TMP 1,3-Dichlorobenzene	0.500	0.517	-3.4	100	0.00
70 TMP 1,4-Dichlorobenzene	0.500	0.514	-2.8	100	0.00
71 TMP 1,2-Dichlorobenzene	0.500	0.514	-2.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.500	0.481	3.8	100	0.00
74 TMP Hexachlorobutadiene	0.500	0.533	-6.6	100	0.00
75 TMP Naphthalene	0.500	0.480	4.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.500	0.527	-5.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	123466	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	111984	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	68714	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	41571	10.569	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	105.70%		
30) 1,2-Dichloroethane-d4	4.45	102	7900	10.716	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery	=	107.20%		
35) Toluene-d8	6.11	98	116986	10.541	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery	=	105.40%		
57) 4-Bromofluorobenzene	8.51	95	43280	10.394	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery	=	103.90%		
<b>Target Compounds</b>							
2) Ethanol	2.35	45	207	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	4074	0.567	ppb		92
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.33	62	2598m	0.564	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.64	64	1353m	0.548	ppb		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	2.35	45	207	No Calib			
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.26	96	1612m	0.527	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.93	73	3934m	0.535	ppb		
17] trans-1,2-Dichloroethene	2.91	96	1822m	0.538	ppb		
18) Diisopropyl ether (DIPE)	3.34	45	3332	0.506	ppb		90
19] 1,1-Dichloroethane	3.27	63	2275	0.541	ppb		100
20) Ethyl t-butyl ether (E...)	3.65	87	1826	0.515	ppb		93
21) 2,2-Dichloropropane	3.76	77	2458m	0.528	ppb		
22] cis-1,2-Dichloroethene	3.77	96	1968m	0.538	ppb		
23) Chloroform	4.04	83	2934	0.538	ppb		97
24) 2-Butanone (MEK)	3.79	43	3573	3.132	ppb		84
25) t-Amyl methyl ether (T...)	4.61	73	3699	0.544	ppb		98
26] 1,2-Dichloroethane (EDC)	4.52	62	2080	0.535	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	3136	0.543	ppb		100
28) 1,1-Dichloropropene	4.32	75	2041	0.516	ppb		89
29) Carbon tetrachloride	4.32	117	3273	0.533	ppb		100
31] Benzene	4.50	78	5597	0.560	ppb		100
32] Trichloroethene	5.05	95	2096m	0.558	ppb		
33) 1,2-Dichloropropane	5.24	63	1606	0.607	ppb	#	81
34) Bromodichloromethane	5.48	83	2332	0.597	ppb		73
36) Dibromomethane	5.34	93	1174	0.551	ppb		77

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

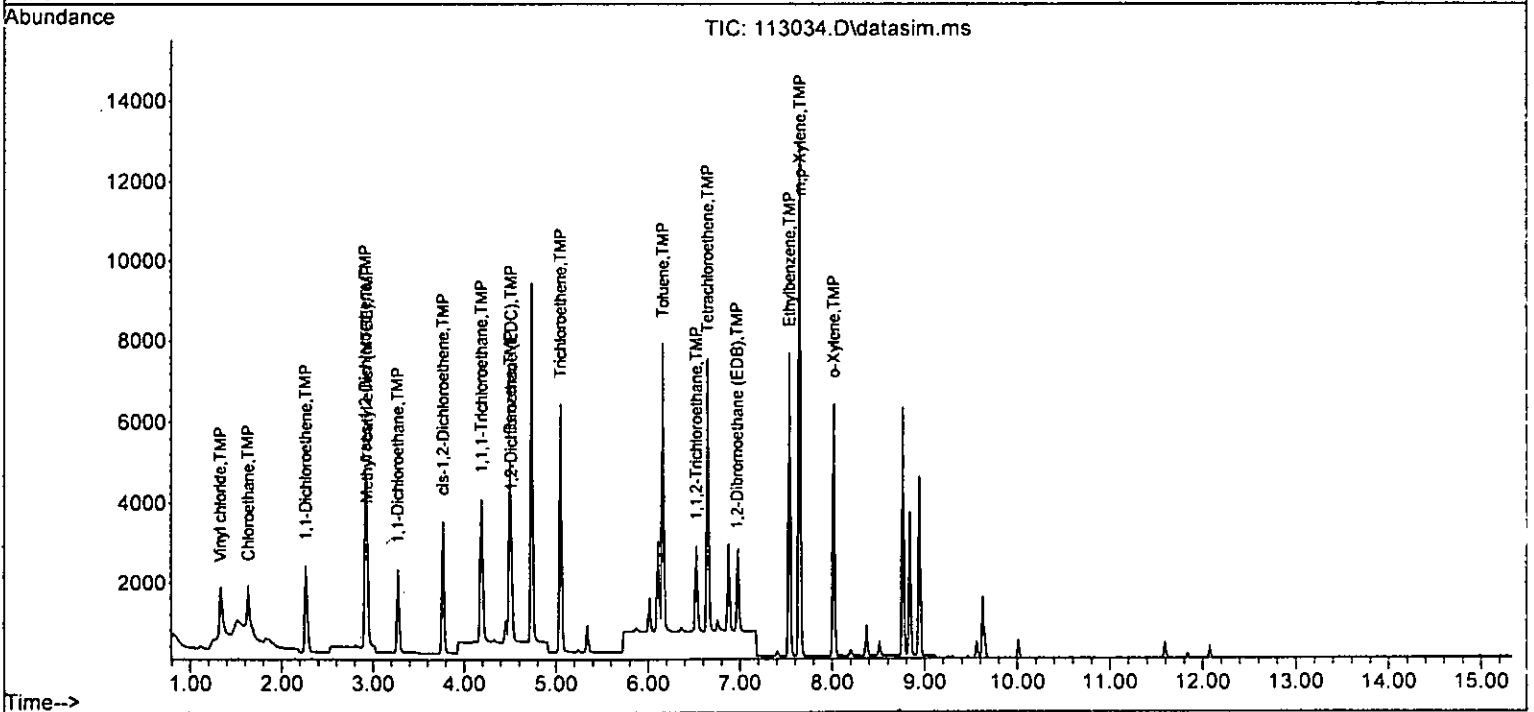
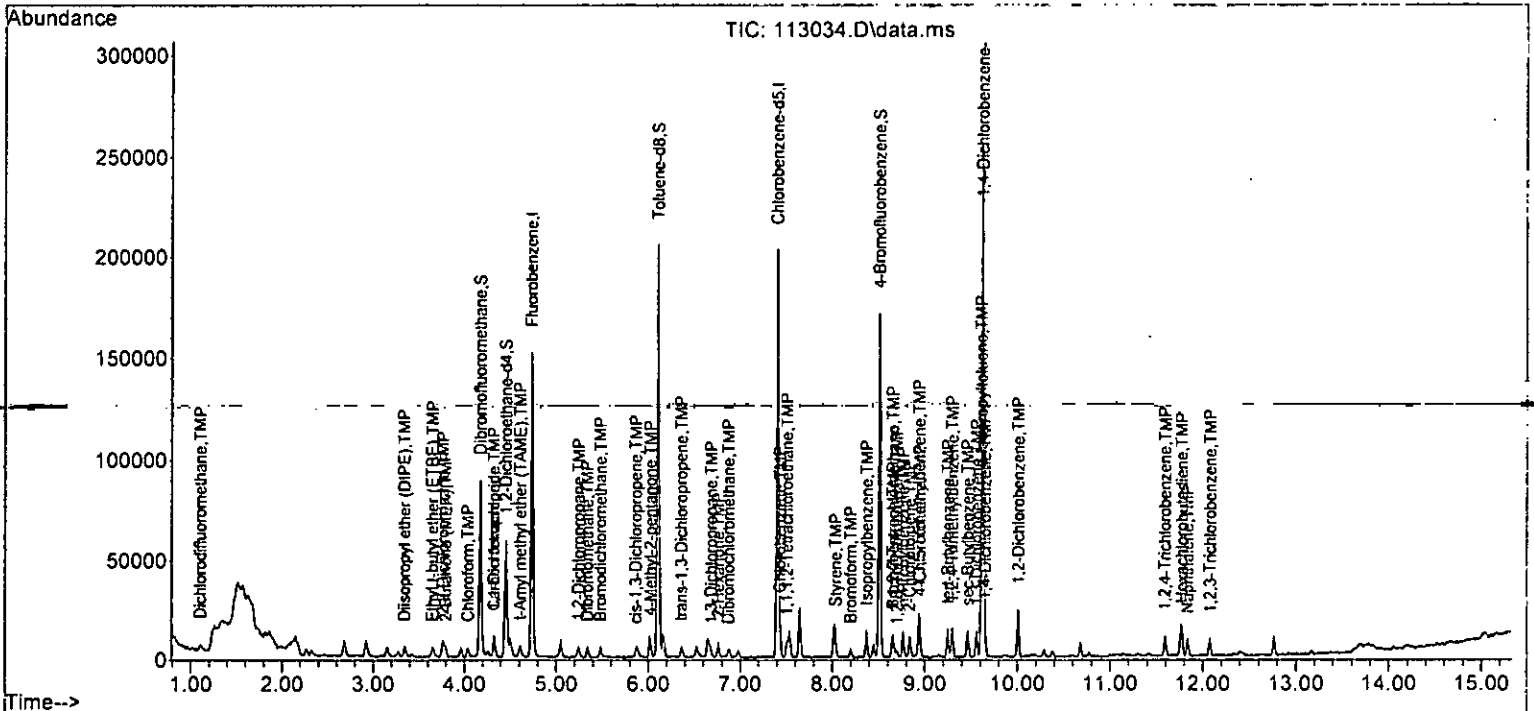
Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	1358	2.771	ppb	# 77
38) cis-1,3-Dichloropropene	5.86	75	2256	0.556	ppb	83
40] Toluene	6.16	92	3979	0.505	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	1755	0.441	ppb	88
42] 1,1,2-Trichloroethane	6.53	83	1124	0.506	ppb	98
43) 2-Hexanone	6.76	43	4000	2.524	ppb	95
44) 1,3-Dichloropropane	6.68	76	2184	0.577	ppb	93
45] Tetrachloroethene	6.65	164	2454	0.496	ppb	99
46) Dibromochloromethane	6.87	129	2235	0.469	ppb	96
47] 1,2-Dibromoethane (EDB)	6.97	107	1851	0.514	ppb	98
48) Chlorobenzene	7.43	112	5481	0.519	ppb	98
49] Ethylbenzene	7.54	91	7706	0.508	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	2232	0.483	ppb	87
51] m,p-Xylene	7.65	106	6952	1.022	ppb	99
52] o-Xylene	8.02	106	3259	0.511	ppb	99
53) Styrene	8.03	104	4674	0.492	ppb	92
54) Isopropylbenzene	8.37	105	7720	0.509	ppb	95
55) Bromoform	8.20	173	1618	0.478	ppb	87
58) n-Propylbenzene	8.77	91	8342	0.538	ppb	98
59) Bromobenzene	8.65	156	2760	0.489	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	6683	0.530	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.65	83	1576	0.522	ppb	88
62) 1,2,3-Trichloropropane	8.70	75	1475	0.636	ppb	89
63) 2-Chlorotoluene	8.84	91	4485	0.509	ppb	97
64) 4-Chlorotoluene	8.95	91	5624	0.527	ppb	84
65) tert-Butylbenzene	9.25	119	6719	0.502	ppb	96
66) 1,2,4-Trimethylbenzene	9.30	105	7096	0.523	ppb	97
67) sec-Butylbenzene	9.46	105	8310	0.505	ppb	97
68) p-Isopropyltoluene	9.61	119	8290	0.503	ppb	92
69) 1,3-Dichlorobenzene	9.56	146	5246	0.517	ppb	95
70) 1,4-Dichlorobenzene	9.65	146	5144	0.514	ppb	96
71) 1,2-Dichlorobenzene	10.01	146	5018	0.514	ppb	95
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.59	180	3298	0.481	ppb	99
74) Hexachlorobutadiene	11.77	225	2153	0.533	ppb	95
75) Naphthalene	11.83	128	6397	0.480	ppb	99
76) 1,2,3-Trichlorobenzene	12.08	180	2859	0.527	ppb	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	100	0.02
3 S	Dibromofluoromethane	0.319	0.337	-5.6	100	0.00
4 TMP	Dichlorodifluoromethane	0.582	0.660	-13.4	100	0.00
5 TMP	Chloromethane	0.386	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.373	0.421	-12.9	115	0.00
7 TMP	Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.200	0.219	-9.5	103	0.00
9 TMP	Trichlorofluoromethane	1.015	0.000#	100.0#	0#	-1.83#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP	Acetone	0.022	0.000#	100.0#	0#	-2.32#
12 TMP	1,1-Dichloroethene	0.248	0.261	-5.2	100	0.00
13 TMP	Hexane	0.236	0.000#	100.0#	0#	-3.16#
14 TMP	Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.022	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.596	0.637	-6.9	98	0.01
17 TMP	trans-1,2-Dichloroethene	0.274	0.295	-7.7	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.533	0.540	-1.3	100	0.00
19 TMP	1,1-Dichloroethane	0.341	0.369	-8.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.287	0.296	-3.1	100	0.00
21 TMP	2,2-Dichloropropane	0.297	0.398	-34.0#	85	0.00
22 TMP	cis-1,2-Dichloroethene	0.296	0.319	-7.8	97	0.00
23 TMP	Chloroform	0.441	0.475	-7.7	100	0.00
24 TMP	2-Butanone (MEK)	0.102	0.116	-13.7	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.551	0.599	-8.7	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.334	0.337	-0.9	100	0.00
27 TMP	1,1,1-Trichloroethane	0.468	0.508	-8.5	100	0.00
28 TMP	1,1-Dichloropropene	0.320	0.331	-3.4	100	-0.01
29 TMP	Carbon tetrachloride	0.497	0.530	-6.6	100	-0.01
30 S	1,2-Dichloroethane-d4	0.060	0.064	-6.7	100	0.00
31 TMP	Benzene	0.849	0.907	-6.8	100	0.00
32 TMP	Trichloroethene	0.304	0.340	-11.8	100	0.00
33 TMP	1,2-Dichloropropane	0.189	0.260	-37.6#	100	0.00
34 TMP	Bromodichloromethane	0.316	0.378	-19.6	100	0.00
35 S	Toluene-d8	0.899	0.948	-5.5	100	0.00
36 TMP	Dibromomethane	0.173	0.190	-9.8	100	0.00
37 TMP	4-Methyl-2-pentanone	0.040	0.044	-10.0	100	0.01
38 TMP	cis-1,3-Dichloropropene	0.329	0.365	-10.9	100	-0.01
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.719	0.711	1.1	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.356	0.313	12.1	100	0.00
42 TMP	1,1,2-Trichloroethane	0.204	0.201	1.5	100	0.00
43 TMP	2-Hexanone	0.142	0.143	-0.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.390	-15.4	100	0.01
45 TMP Tetrachloroethene	0.443	0.438	1.1	100	0.00
46 TMP Dibromochloromethane	0.425	0.399	6.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.331	1.2	100	0.00
48 TMP Chlorobenzene	0.943	0.979	-3.8	100	0.00
49 TMP Ethylbenzene	1.560	1.376	11.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.399	3.4	100	0.00
51 TMP m,p-Xylene	0.718	0.621	13.5	100	0.00
<del>52 TMP o-Xylene</del>	<del>0.611</del>	<del>0.582</del>	<del>4.7</del>	<del>100</del>	<del>0.00</del>
53 TMP Styrene	0.848	0.835	1.5	100	0.00
54 TMP Isopropylbenzene	1.353	1.379	-1.9	100	0.00
55 TMP Bromoform	0.302	0.289	4.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.630	-4.0	100	0.00
58 TMP n-Propylbenzene	2.257	2.428	-7.6	100	0.00
59 TMP Bromobenzene	0.821	0.803	2.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.945	-5.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.459#	-6.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.429#	-27.3#	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.305	-1.8	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.637	-5.5	100	0.00
65 TMP tert-Butylbenzene	1.946	1.956	-0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.065	-4.6	100	0.00
67 TMP sec-Butylbenzene	2.396	2.419	-1.0	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.413	-0.5	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.527	-3.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.497	-2.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.461	-2.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.997	0.960	3.7	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.627	-6.6	100	0.00
75 TMP Naphthalene	1.938	1.862	3.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.832	-5.4	100	0.00

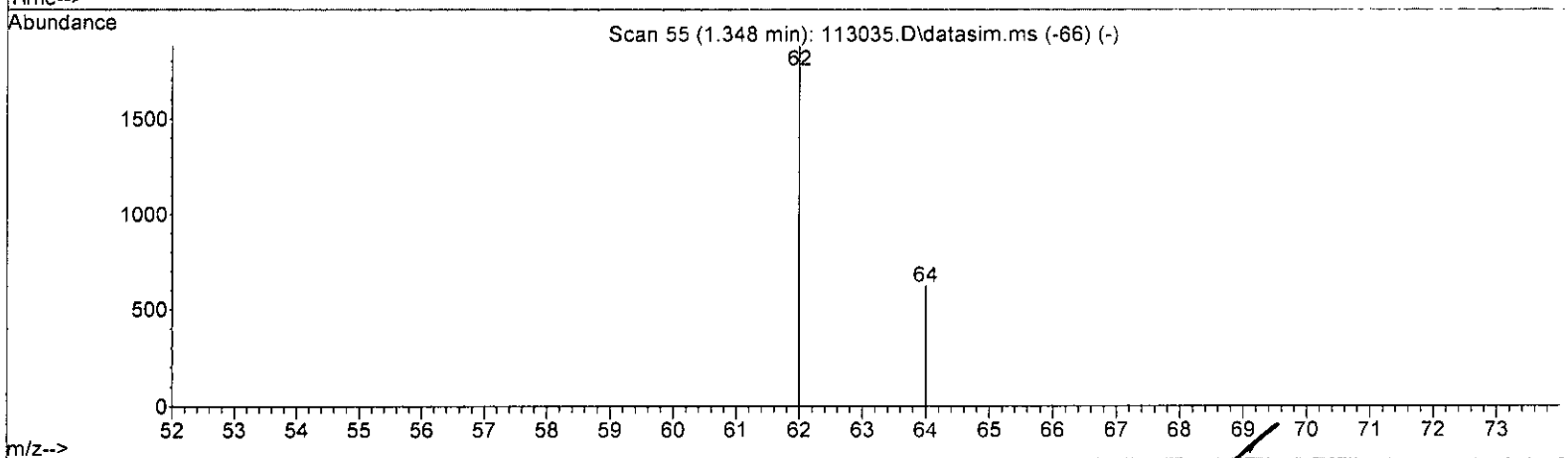
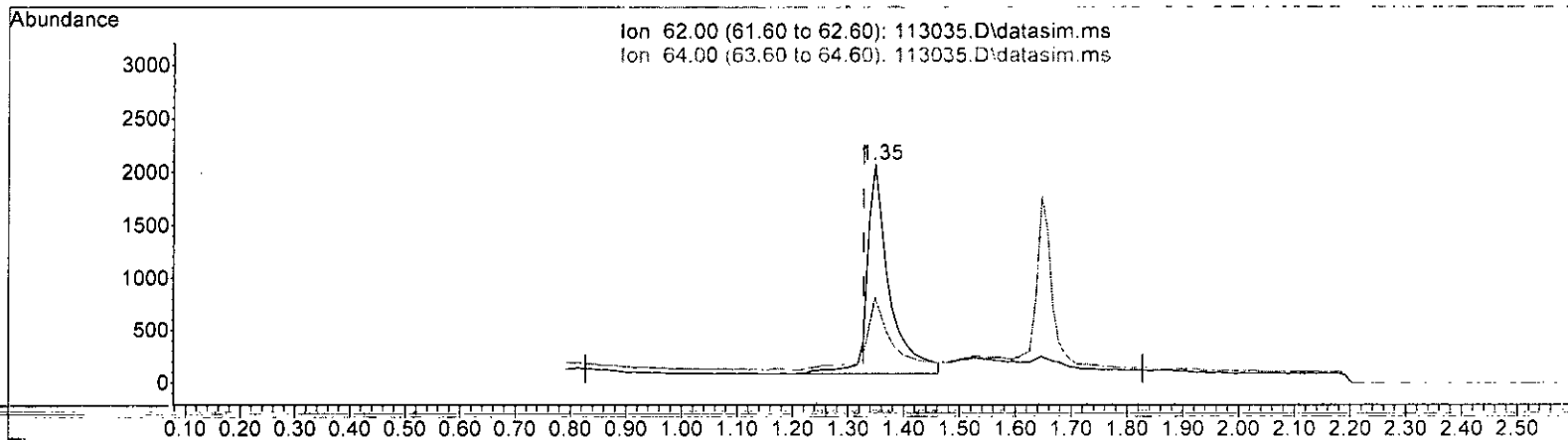
(#) = Out of Range

SPCC's out = 11 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(6) Vinyl chloride (TMP)

1.348min (+ 0.020) 1.125 ppb

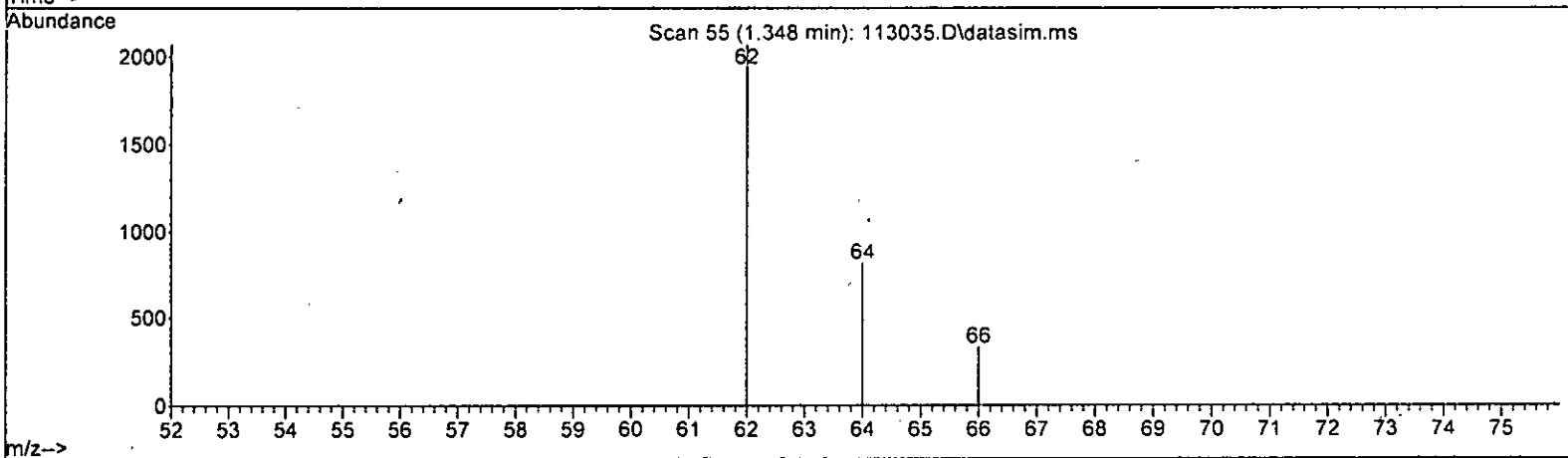
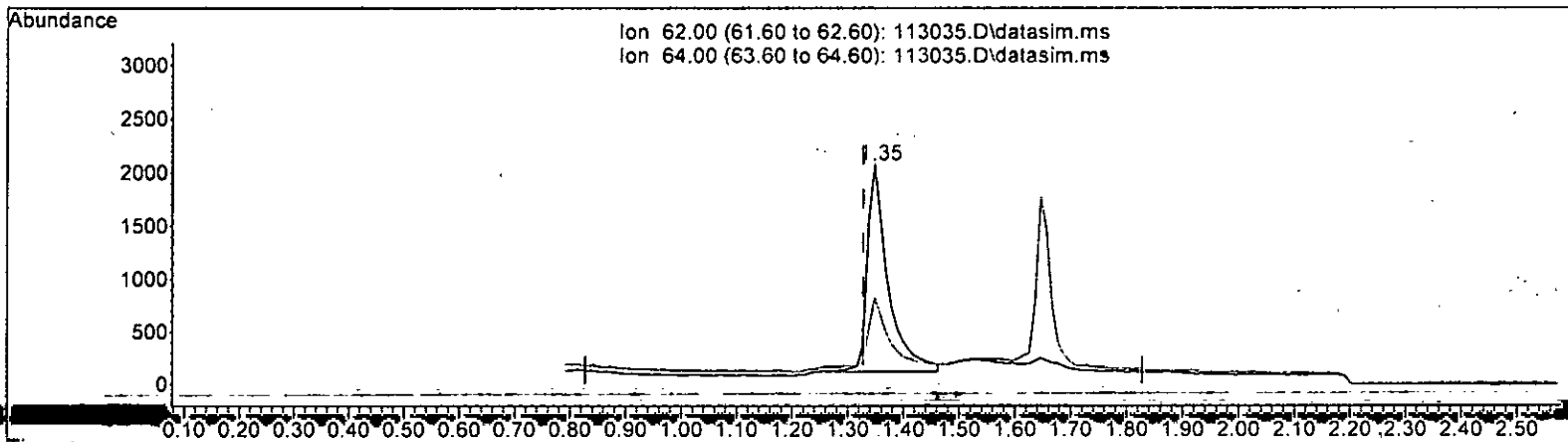
response	5553	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	34.96
0.00	0.00	0.00
0.00	0.00	0.00

*MR.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



TIC: 113035.D\data.ms

(6) Vinyl chloride (TMP)

1.348min (+ 0.020) 1.016 ppb m

response 5016

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	39.48
0.00	0.00	0.00
0.00	0.00	0.00

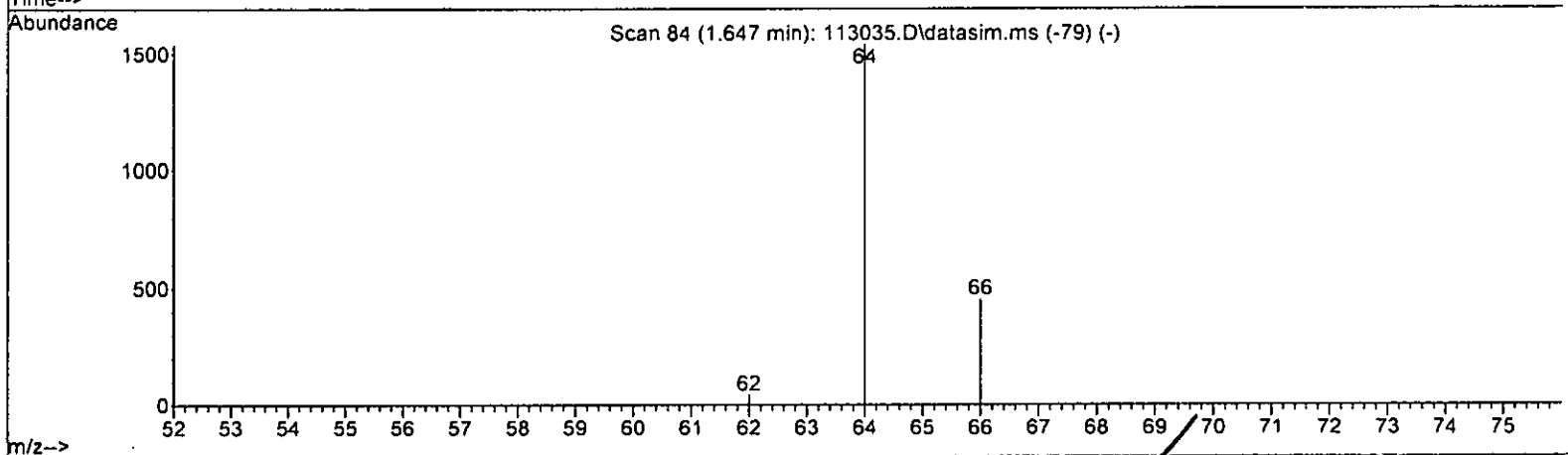
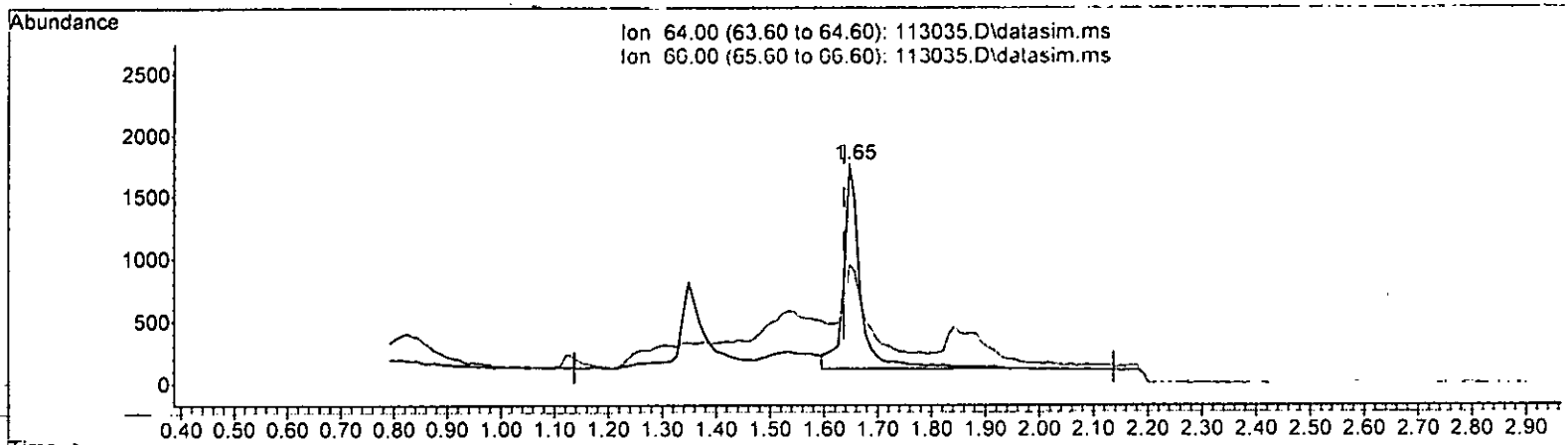
m/12.1



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(8) Chloroethane (TMP)

1.647min (+ 0.010) 1.383 ppb

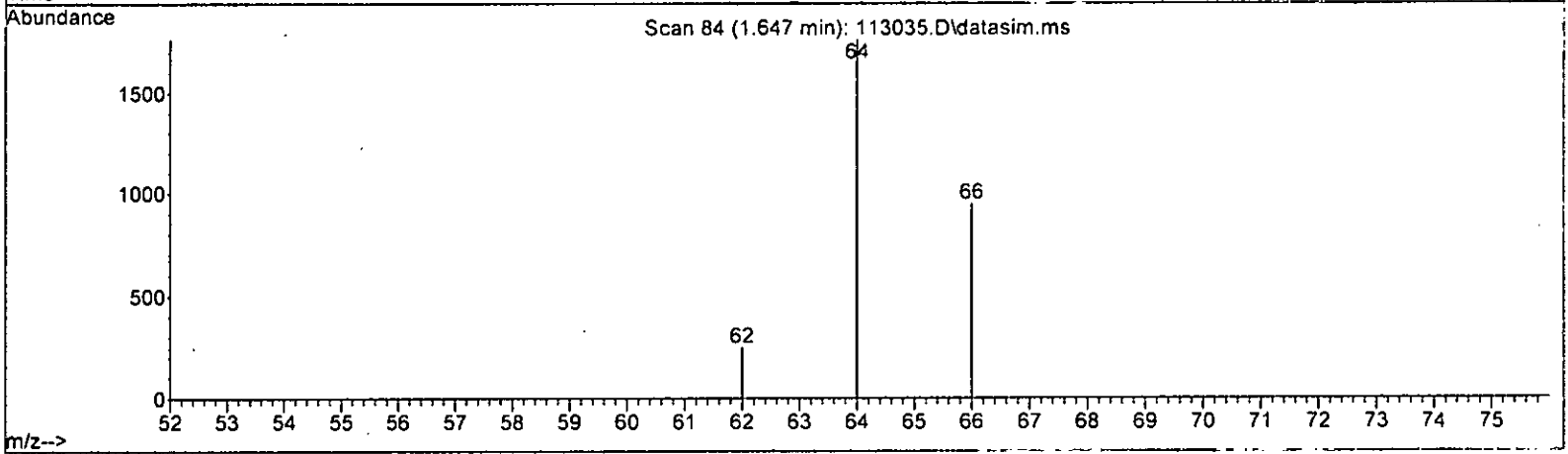
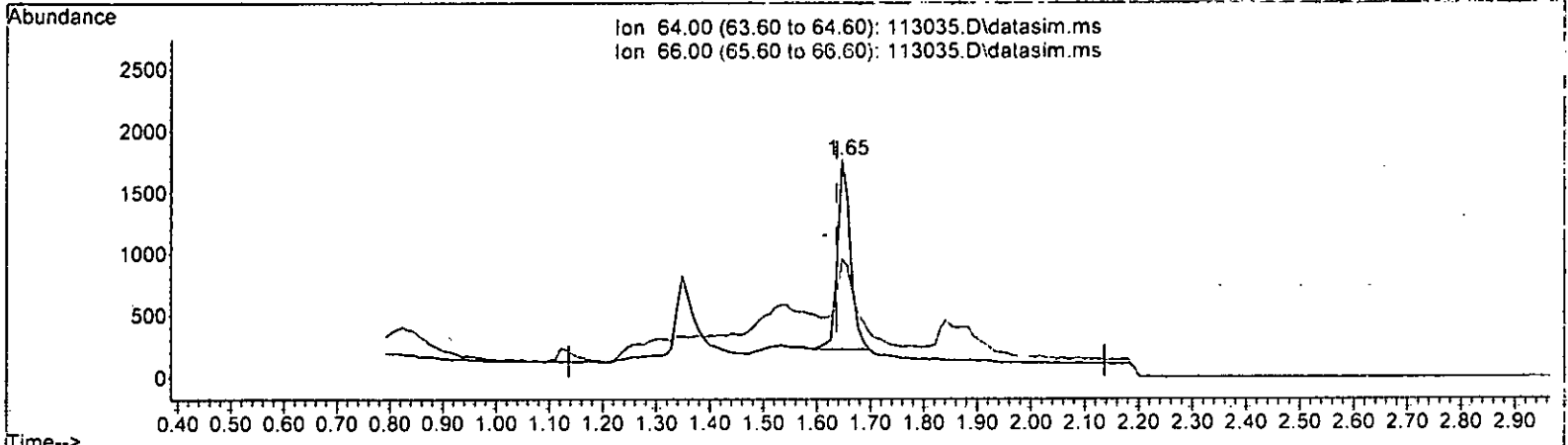
response	3656	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	47.11
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(8) Chloroethane (TMP)

1.647min (+ 0.010) 0.983 ppb m

response 2598

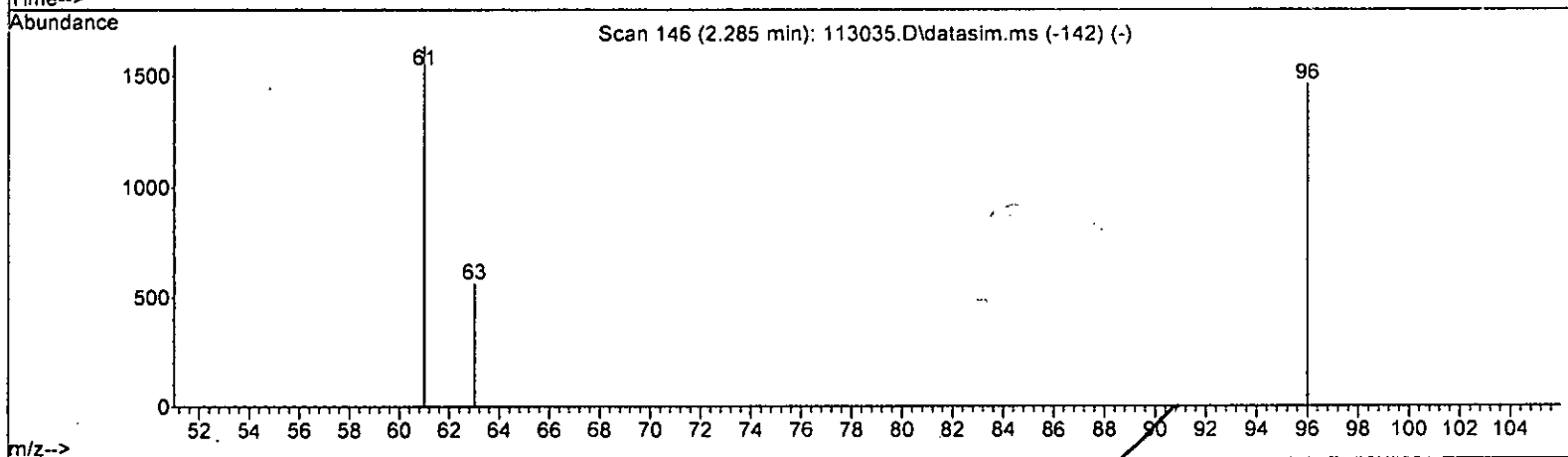
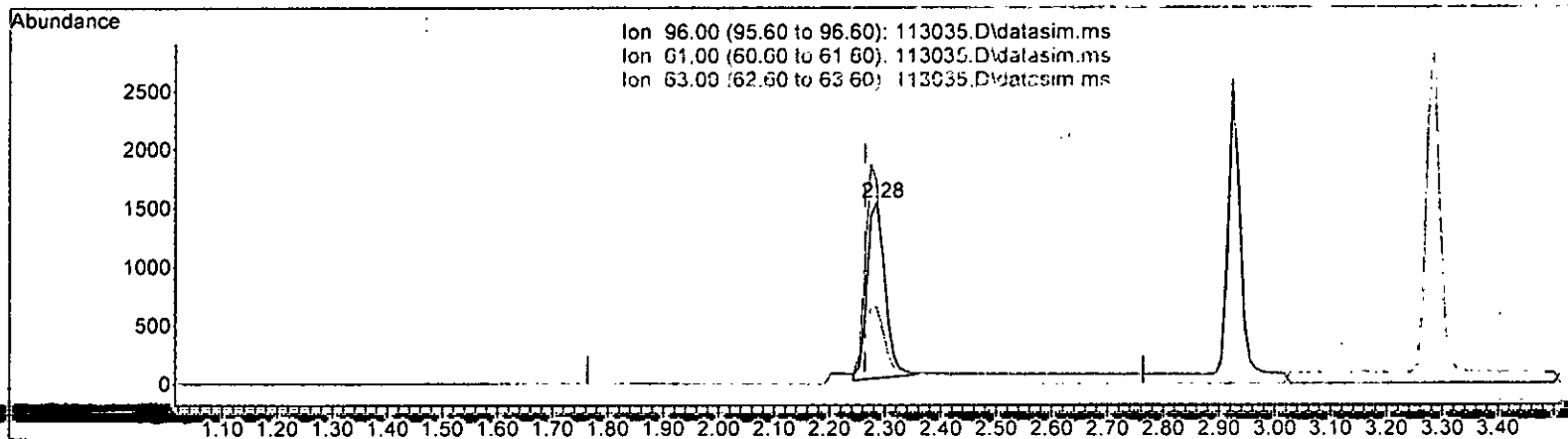
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	53.85
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

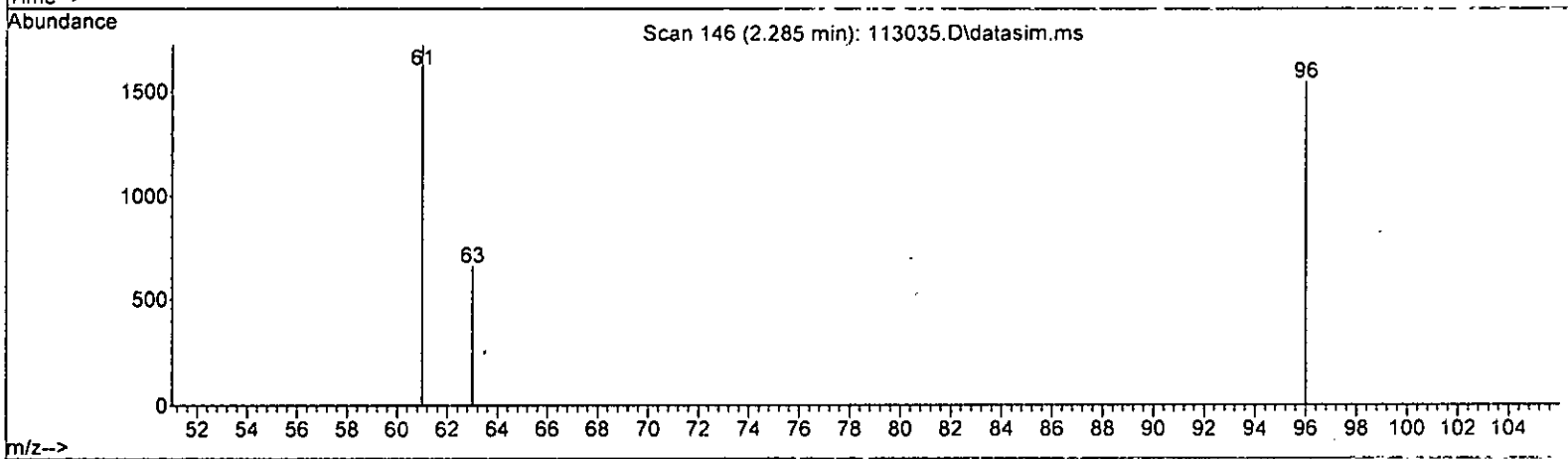
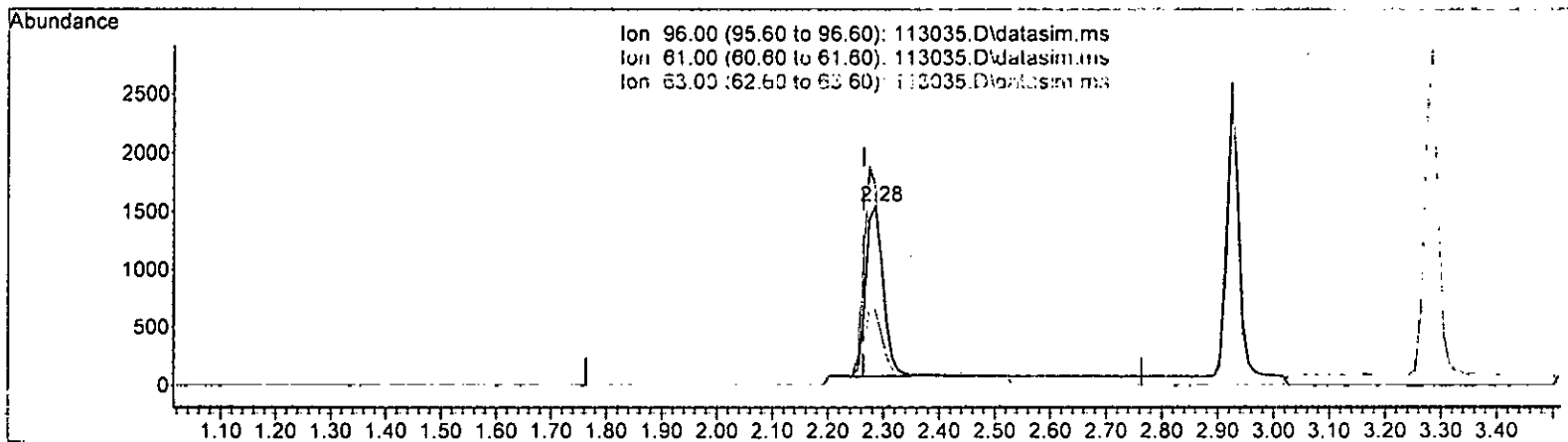
*W 12.1*

(12) 1,1-Dichloroethene (TMP)		
2.285min (+ 0.021)	1.033 ppb	
response	3389	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	112.11
63.00	41.10	38.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.285min (+ 0.021) 0.978 ppb m

response 3209

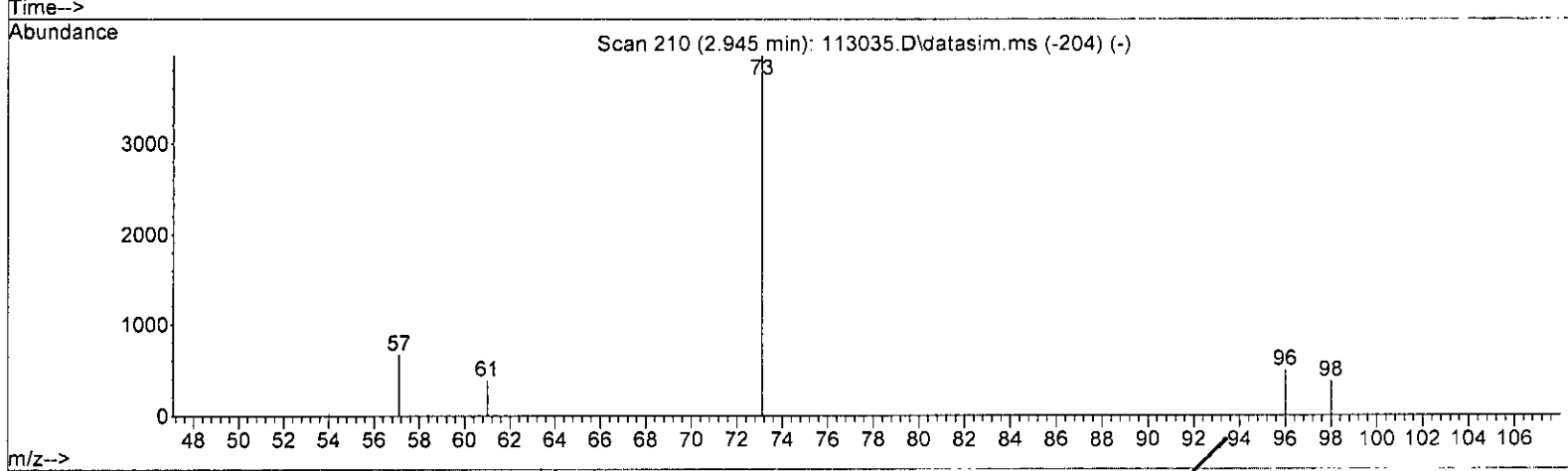
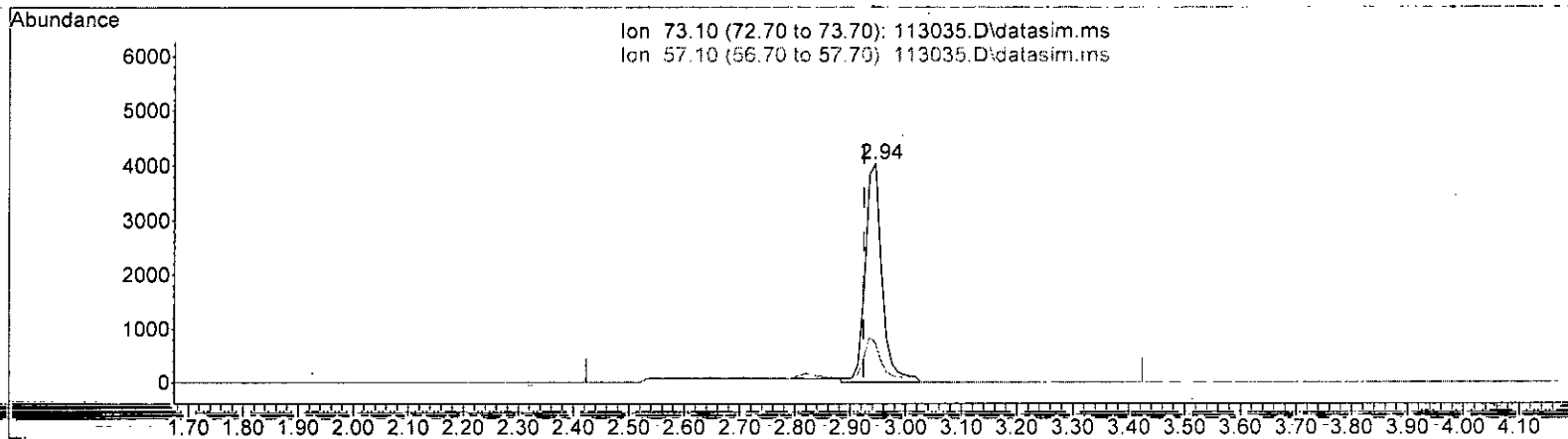
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	111.54
63.00	41.10	42.54
0.00	0.00	0.00

*LM 12/1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.945min (+ 0.021) 1.086 ppb

response 8562

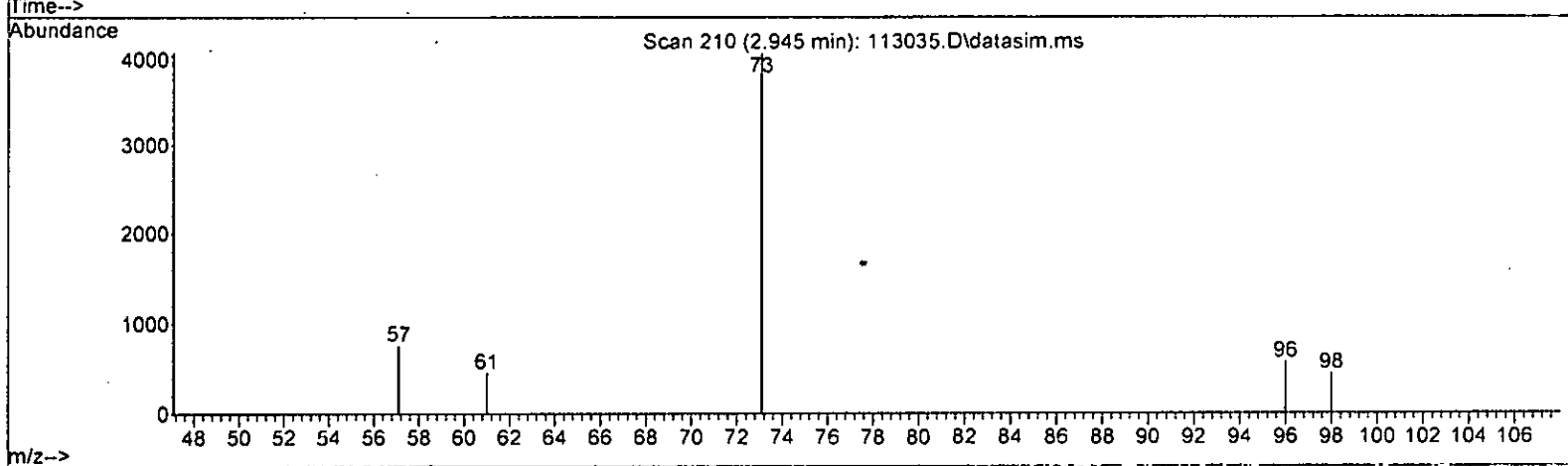
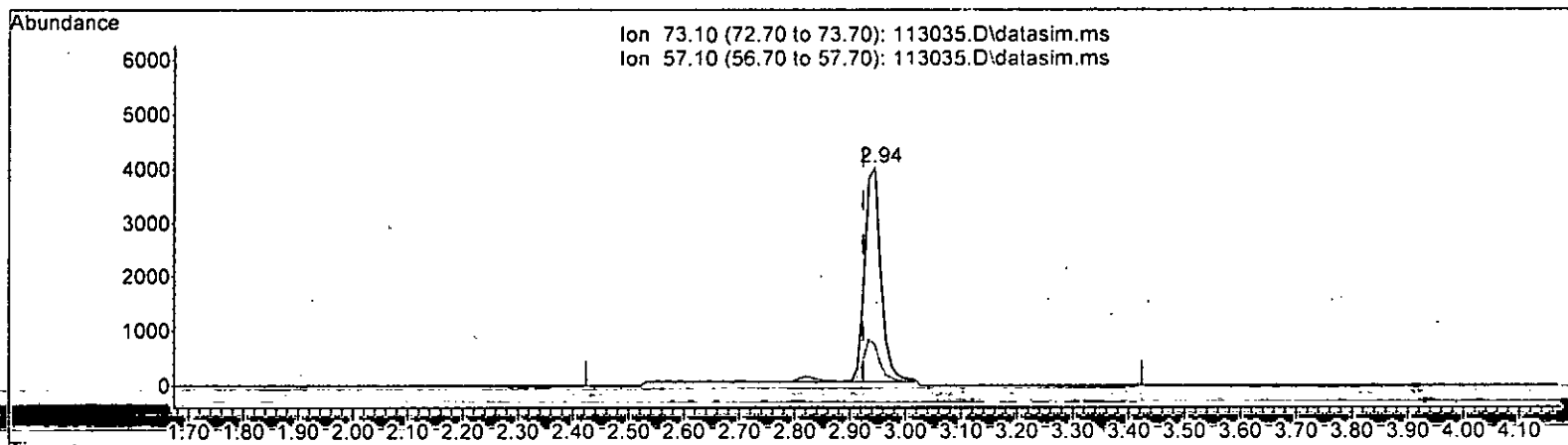
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	18.70
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.945min (+ 0.021) 1.017 ppb m

response 8013

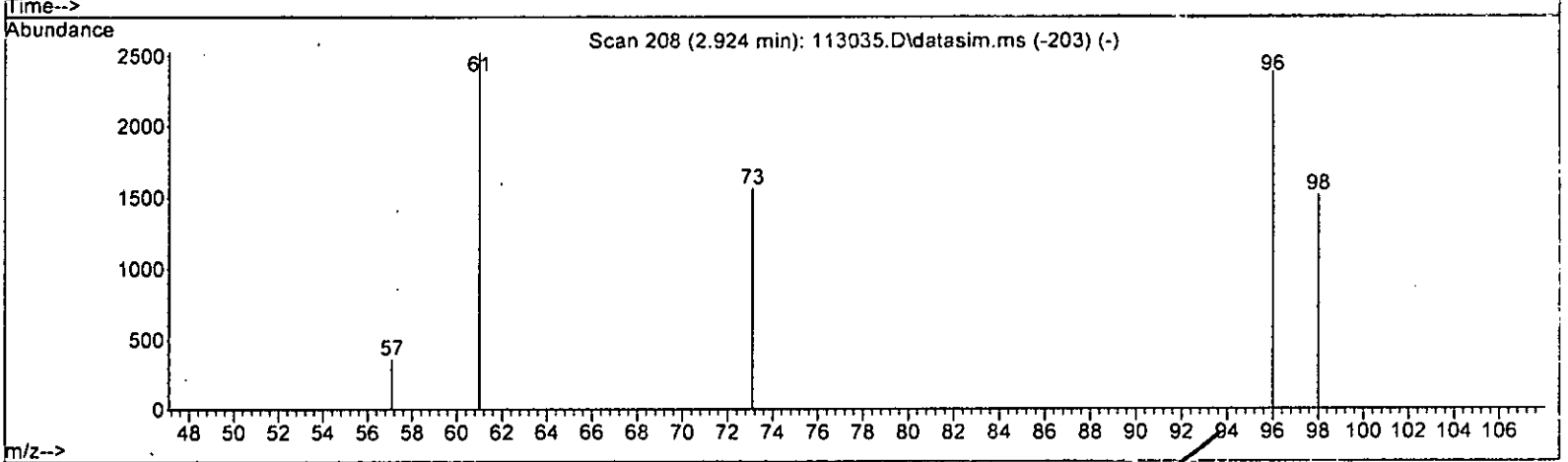
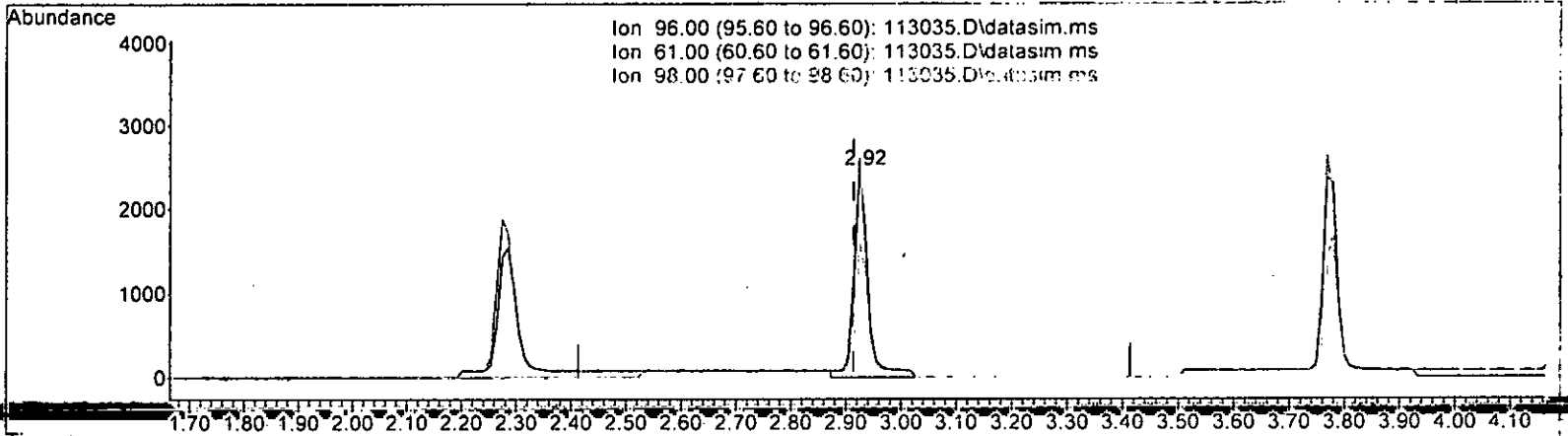
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	18.70
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 1.179 ppb

response 4278

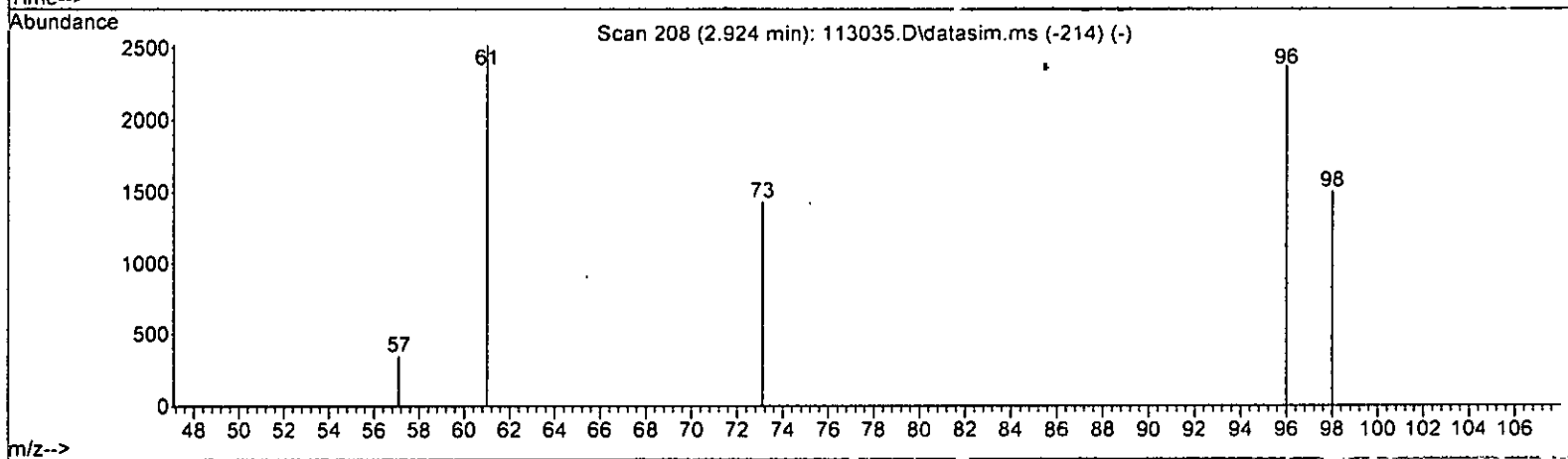
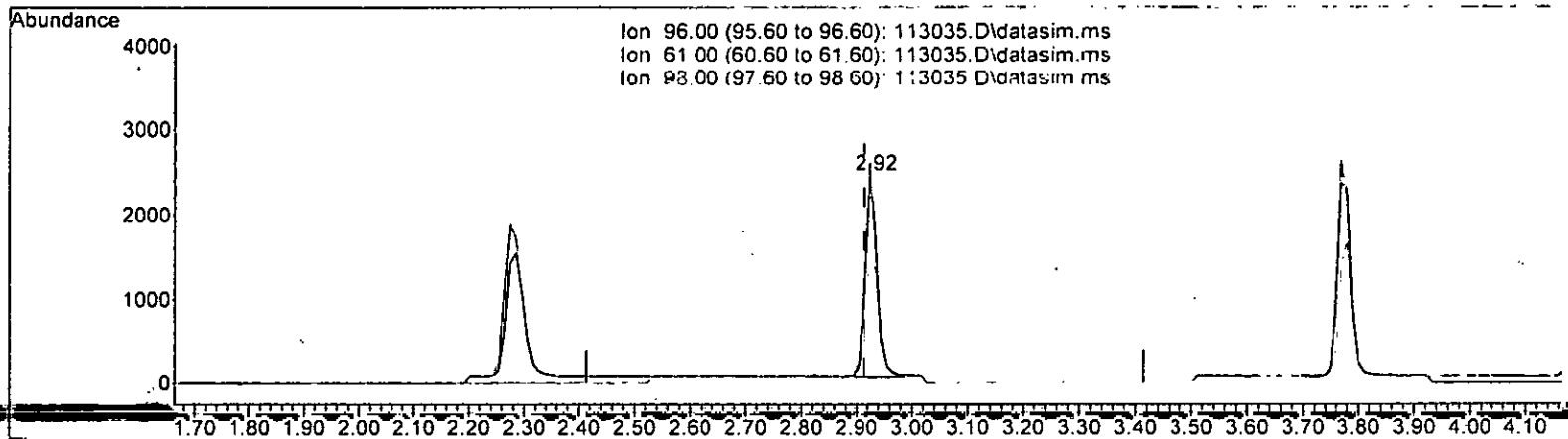
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	105.65
98.00	62.70	64.12
0.00	0.00	0.00

*12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *m 12.1*

2.924min (+ 0.010) 1.011 ppb m

response 3671

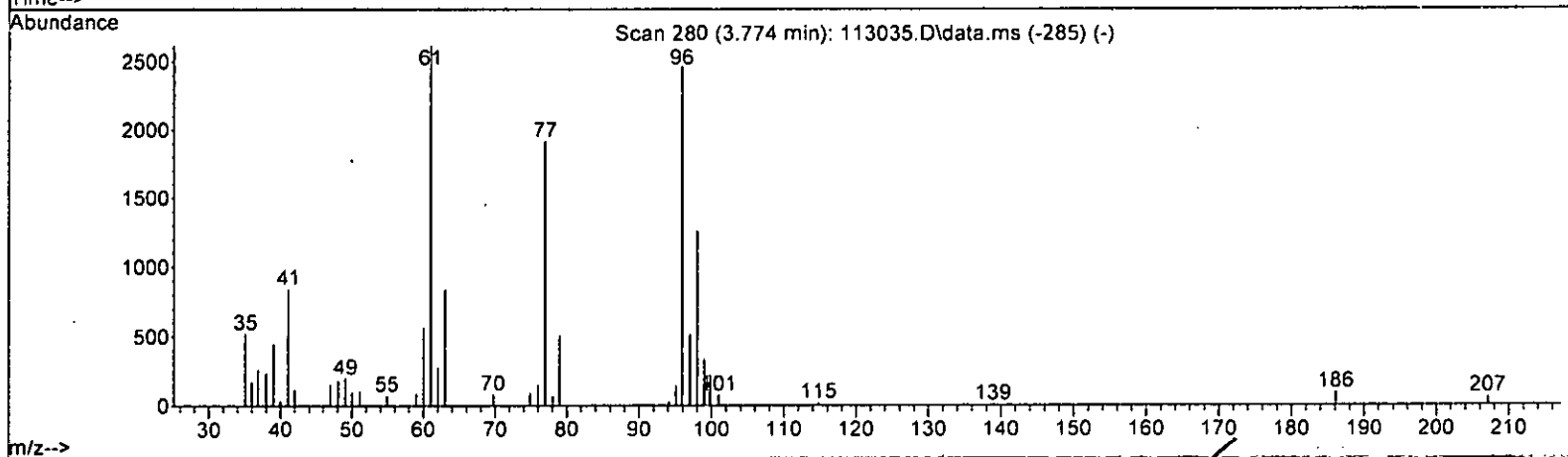
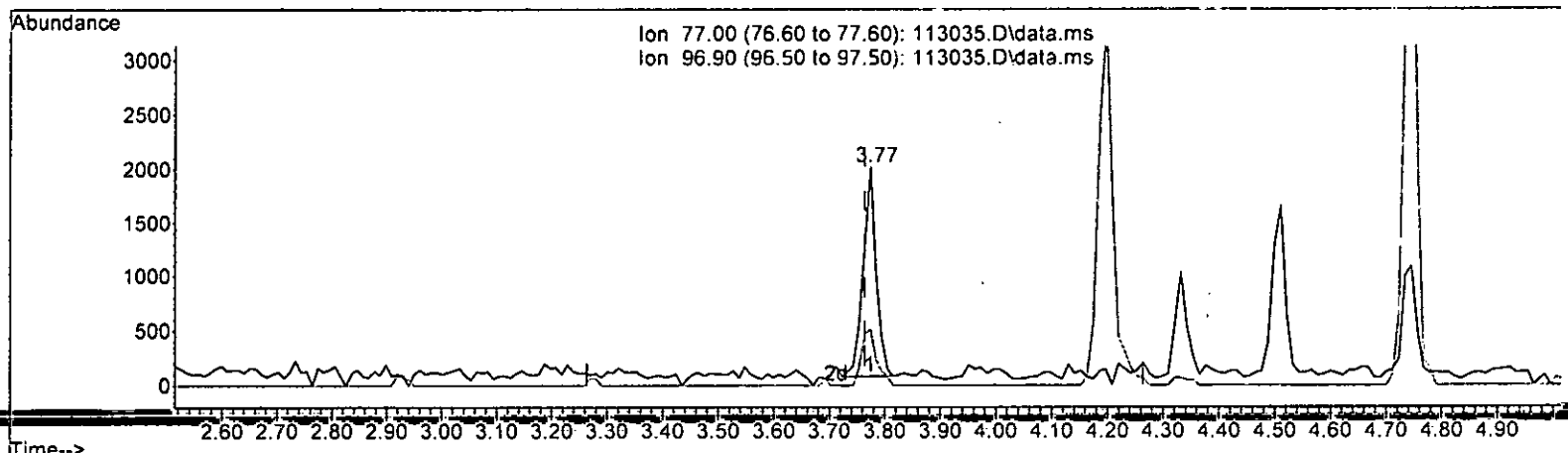
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	105.65
98.00	62.70	64.12
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(21) 2,2-Dichloropropane (TMP) *m 12.1*

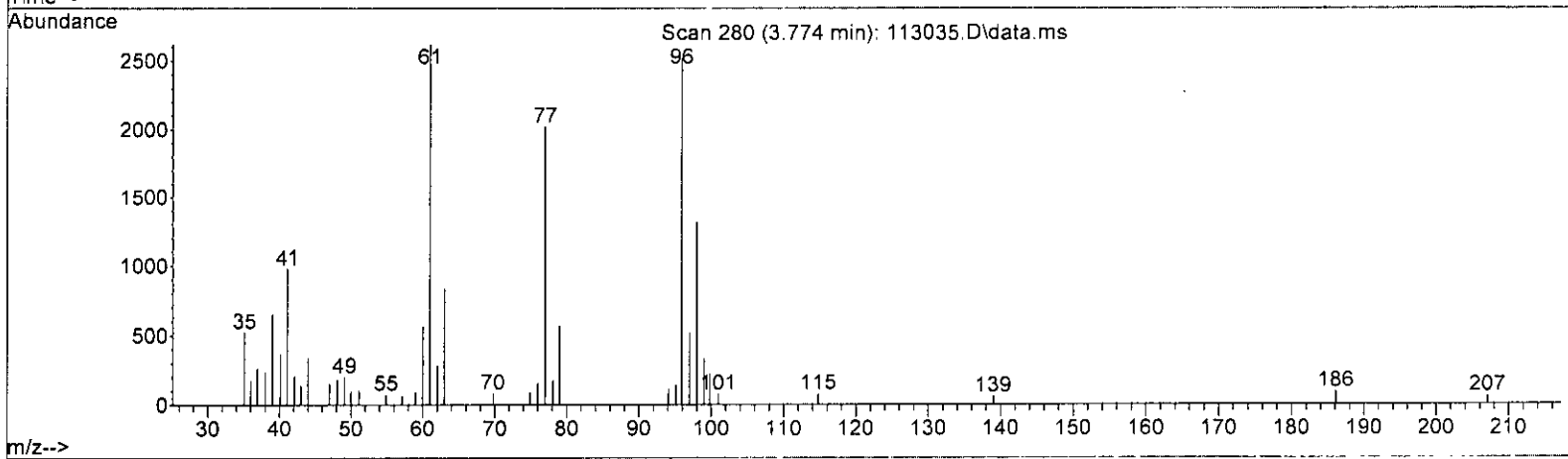
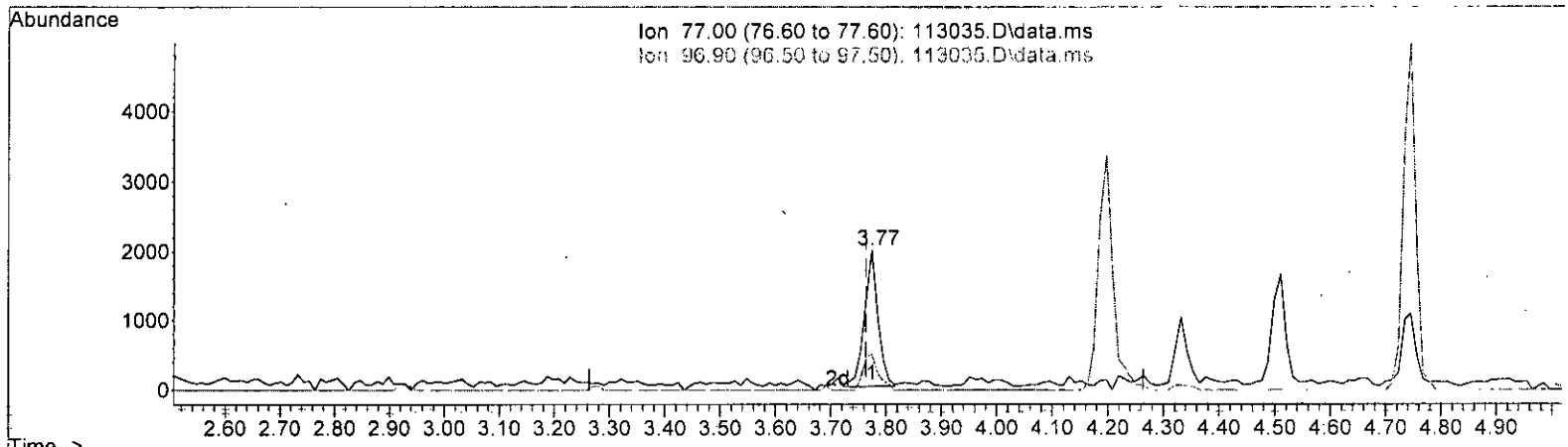
3.774min (+ 0.010) 0.697 ppb

response	3165
Ion	Exp% Act%
77.00	100.00 100.00
96.90	32.00 26.44
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(21) 2,2-Dichloropropane (TMP)  
 3.774min (+ 0.010) 0.744 ppb m

response 3313

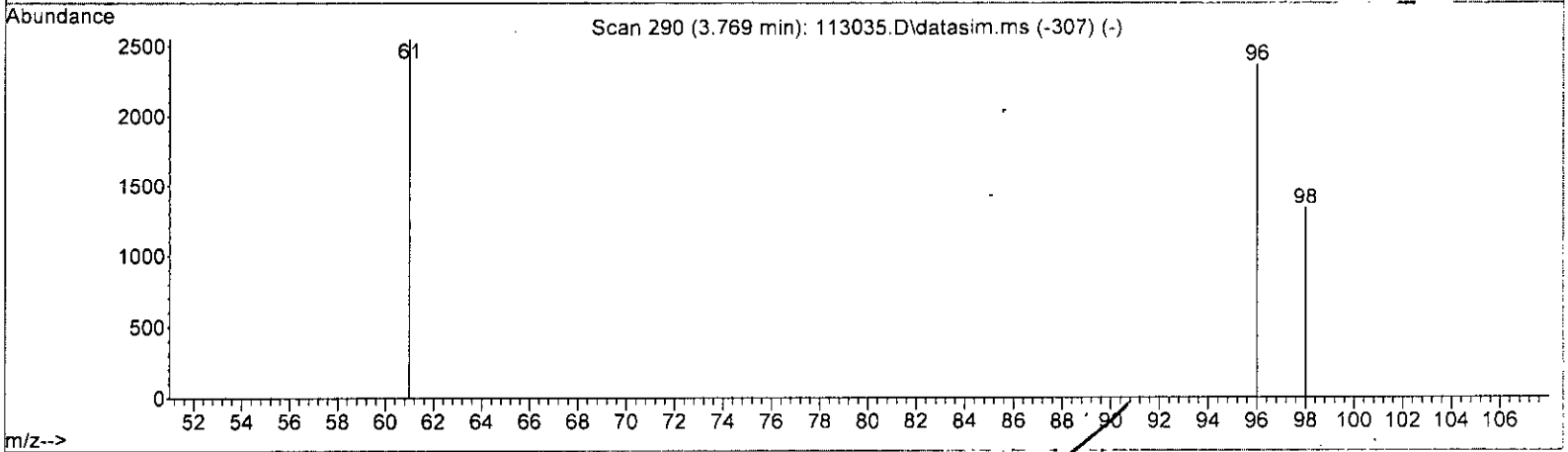
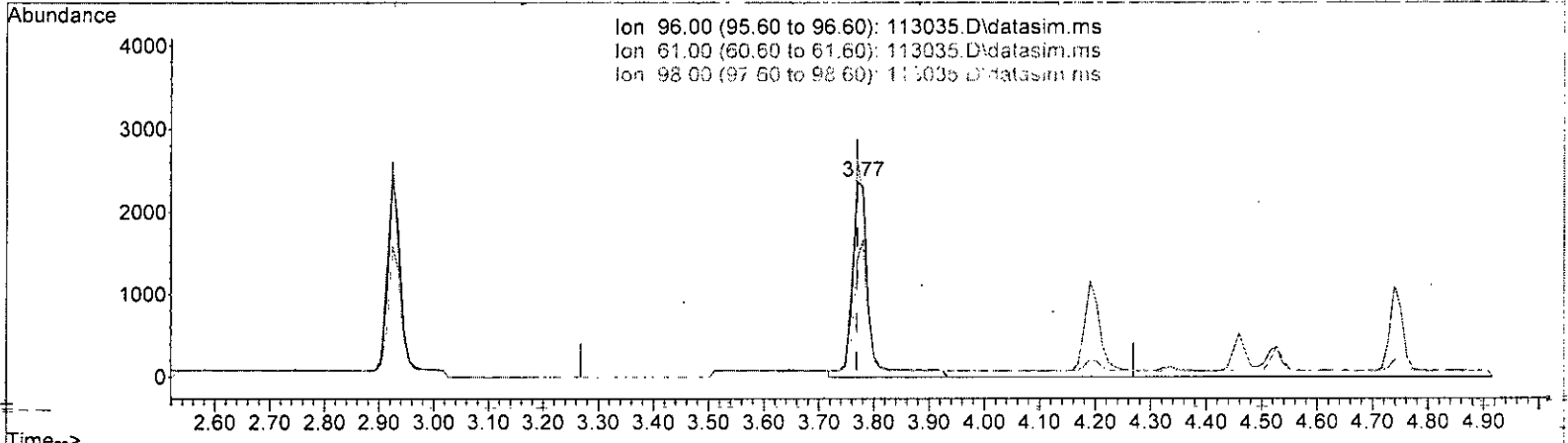
Ion	Exp%	Act%
77.00	100.00	100.00
96.90	32.00	25.31
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(22) cis-1,2-Dichloroethene (TMP)

3.769min (-0.000) 1.256 ppb

response 4924

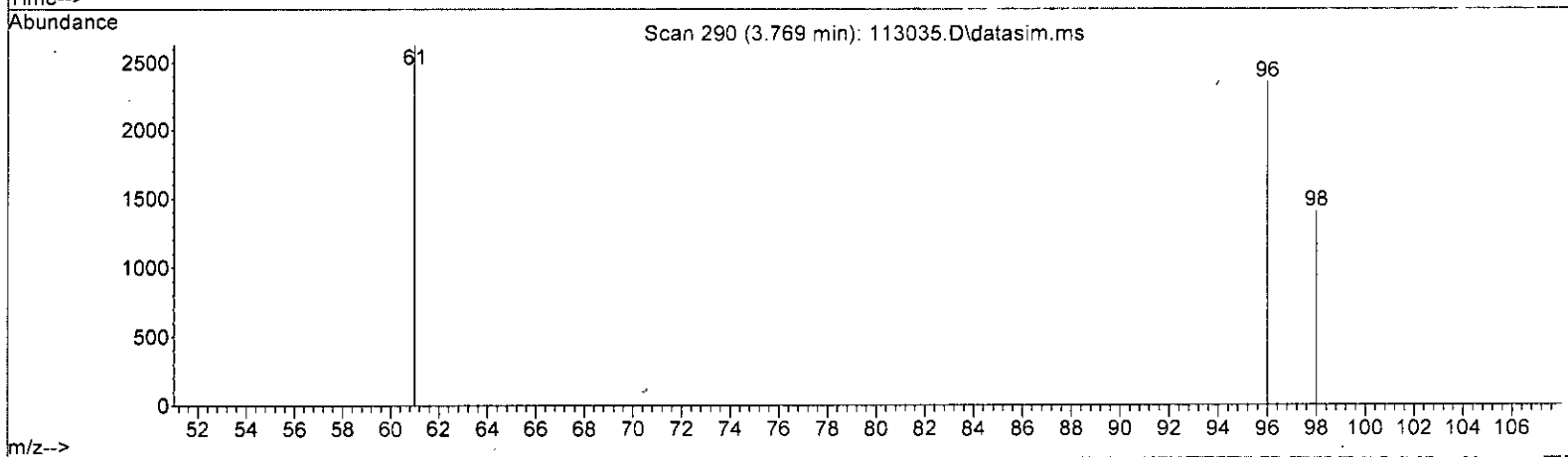
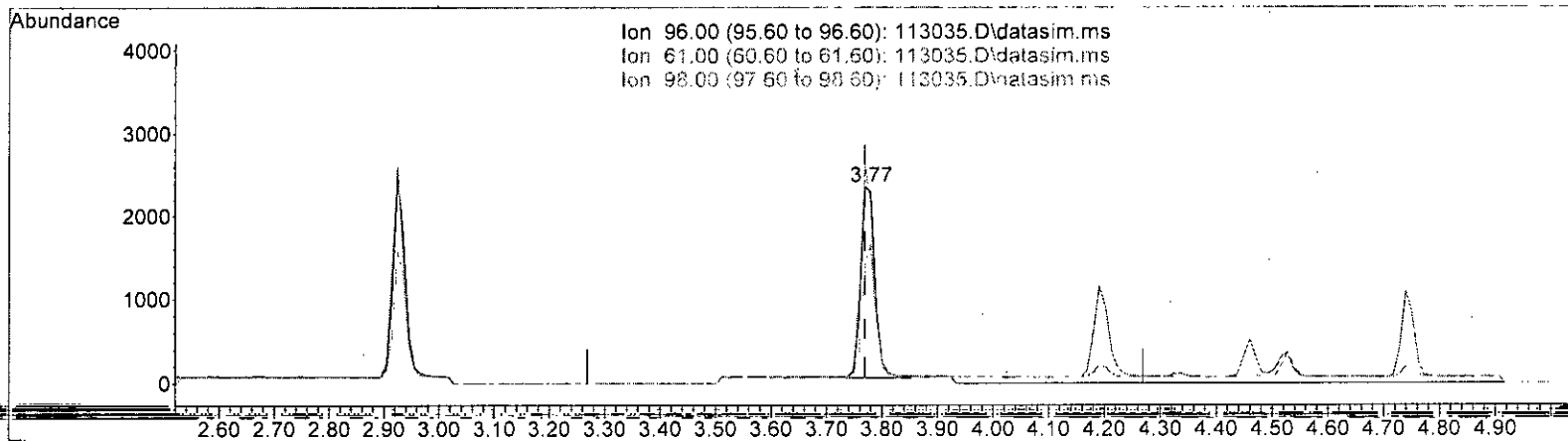
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	97.00	108.09
98.00	68.10	56.80
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(22) cis-1,2-Dichloroethene (TMP) *m 12.1*

3.769min (-0.000) 1.022 ppb m

response	4007
Ion	Exp% Act%
96.00	100.00 100.00
61.00	97.00 111.35
98.00	68.10 59.68
0.00	0.00 0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP	Ethanol	-1.000	0.000	0.0	100	0.01
3 S	Dibromofluoromethane	10.000	9.993	0.1	100	0.00
4 TMP	Dichlorodifluoromethane	1.000	0.908	9.2	100	0.00
5 TMP	Chloromethane	1.000	1.050	-5.0	100	0.02
6 TMP	Vinyl chloride	1.000	1.016	-1.6	111	0.02
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	1.000	0.983	1.7	100	0.00
9 TMP	Trichlorofluoromethane	1.000	0.953	4.7	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.01
11 TMP	Acetone	5.000	6.397	-27.9#	100	0.02
12 TMP	1,1-Dichloroethene	1.000	0.978	2.2	101	0.02
13 TMP	Hexane	1.000	0.987	1.3	100	0.00
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	5.000	6.000	-20.0	100	0.02
16 TMP	Methyl t-butyl ether (MTBE)	1.000	1.017	-1.7	101	0.02
17 TMP	trans-1,2-Dichloroethene	1.000	1.011	-1.1	100	0.01
18 TMP	Diisopropyl ether (DIPE)	1.000	0.974	2.6	100	0.00
19 TMP	1,1-Dichloroethane	1.000	1.020	-2.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	1.000	0.987	1.3	100	0.00
21 TMP	2,2-Dichloropropane	1.000	0.744	25.6#	105	0.01
22 TMP	cis-1,2-Dichloroethene	1.000	1.022	-2.2	101	0.00
23 TMP	Chloroform	1.000	0.999	0.1	100	0.00
24 TMP	2-Butanone (MEK)	5.000	4.929	1.4	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	1.000	1.011	-1.1	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	1.000	1.069	-6.9	100	0.01
27 TMP	1,1,1-Trichloroethane	1.000	1.011	-1.1	100	0.00
28 TMP	1,1-Dichloropropene	1.000	1.060	-6.0	100	0.00
29 TMP	Carbon tetrachloride	1.000	0.972	2.8	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.708	2.9	100	0.00
31 TMP	Benzene	1.000	1.067	-6.7	100	0.00
32 TMP	Trichloroethene	1.000	1.116	-11.6	107	0.00
33 TMP	1,2-Dichloropropane	1.000	0.950	5.0	100	0.00
34 TMP	Bromodichloromethane	1.000	0.970	3.0	100	0.00
35 S	Toluene-d8	10.000	9.534	4.7	100	0.00
36 TMP	Dibromomethane	1.000	1.038	-3.8	100	0.01
37 TMP	4-Methyl-2-pentanone	5.000	4.373	12.5	100	0.01
38 TMP	cis-1,3-Dichloropropene	1.000	1.021	-2.1	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	1.000	1.053	-5.3	100	0.00
41 TMP	trans-1,3-Dichloropropene	1.000	1.007	-0.7	100	0.00
42 TMP	1,1,2-Trichloroethane	1.000	1.049	-4.9	100	0.00
43 TMP	2-Hexanone	5.000	5.569	-11.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	1.000	1.074	-7.4	100	0.01
45 TMP Tetrachloroethene	1.000	1.036	-3.6	100	0.00
46 TMP Dibromochloromethane	1.000	1.042	-4.2	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	1.000	1.078	-7.8	100	0.01
48 TMP Chlorobenzene	1.000	1.017	-1.7	100	0.00
49 TMP Ethylbenzene	1.000	1.080	-8.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	1.000	0.996	0.4	100	0.00
51 TMP m,p-Xylene	2.000	2.173	-8.7	100	0.00
52 TMP o-Xylene	1.000	1.075	-7.5	100	0.00
53 TMP Styrene	1.000	1.068	-6.8	100	0.00
54 TMP Isopropylbenzene	1.000	1.056	-5.6	100	0.00
55 TMP Bromoform	1.000	0.998	0.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.101	-1.0	100	0.00
58 TMP n-Propylbenzene	1.000	1.095	-9.5	100	0.00
59 TMP Bromobenzene	1.000	1.067	-6.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.000	1.046	-4.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	1.000	1.120	-12.0	100	0.00
62 TMP 1,2,3-Trichloropropane	1.000	1.022	-2.2	100	0.00
63 TMP 2-Chlorotoluene	1.000	1.095	-9.5	100	0.00
64 TMP 4-Chlorotoluene	1.000	1.067	-6.7	100	0.00
65 TMP tert-Butylbenzene	1.000	1.055	-5.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.000	1.035	-3.5	100	0.00
67 TMP sec-Butylbenzene	1.000	1.029	-2.9	100	0.00
68 TMP p-Isopropyltoluene	1.000	1.022	-2.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.000	1.072	-7.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.000	1.030	-3.0	100	0.00
71 TMP 1,2-Dichlorobenzene	1.000	1.075	-7.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	1.000	1.092	-9.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	1.000	1.008	-0.8	100	0.00
74 TMP Hexachlorobutadiene	1.000	1.005	-0.5	100	0.00
75 TMP Naphthalene	1.000	0.976	2.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	1.000	1.044	-4.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.01
3 S Dibromofluoromethane	0.319	0.318	0.3	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.529	9.1	100	0.00
5 TMP Chloromethane	0.386	0.405	-4.9	100	0.02
6 TMP Vinyl chloride	0.373	0.379	-1.6	111	0.02
7 TMP Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.200	0.196	2.0	100	0.00
9 TMP Trichlorofluoromethane	1.015	0.968	4.6	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.01
11 TMP Acetone	0.022	0.023	-4.5	100	0.02
12 TMP 1,1-Dichloroethene	0.248	0.243	2.0	101	0.02
13 TMP Hexane	0.236	0.269	-14.0	100	0.00
14 TMP Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.022	0.027#	-22.7#	100	0.02
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.606	-1.7	101	0.02
17 TMP trans-1,2-Dichloroethene	0.274	0.277	-1.1	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.520	2.4	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.348	-2.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.283	1.4	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.250	15.8	105	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.303	-2.4	101	0.00
23 TMP Chloroform	0.441	0.441	0.0	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.099	2.9	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.557	-1.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.331	0.9	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.473	-1.1	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.339	-5.9	100	0.00
29 TMP Carbon tetrachloride	0.497	0.483	2.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP Benzene	0.849	0.854	-0.6	100	0.00
32 TMP Trichloroethene	0.304	0.339	-11.5	107	0.00
33 TMP 1,2-Dichloropropane	0.189	0.187	1.1	100	0.00
34 TMP Bromodichloromethane	0.316	0.307	2.8	100	0.00
35 S Toluene-d8	0.899	0.857	4.7	100	0.00
36 TMP Dibromomethane	0.173	0.179	-3.5	100	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.035	12.5	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.335	-1.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.736	-2.4	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.358	-0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.207	-1.5	100	0.00
43 TMP 2-Hexanone	0.142	0.158	-11.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GC513\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GC513

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.363	-7.4	100	0.01
45 TMP Tetrachloroethene	0.443	0.455	-2.7	100	0.00
46 TMP Dibromochloromethane	0.425	0.443	-4.2	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.342	-2.1	100	0.01
48 TMP Chlorobenzene	0.943	0.959	-1.7	100	0.00
49 TMP Ethylbenzene	1.560	1.395	10.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.411	0.5	100	0.00
51 TMP m,p-Xylene	0.718	0.623	13.2	100	0.00
52 TMP o-Xylene	0.611	0.598	2.1	100	0.00
53 TMP Styrene	0.848	0.907	-7.0	100	0.00
54 TMP Isopropylbenzene	1.353	1.429	-5.6	100	0.00
55 TMP Bromoform	0.302	0.302	0.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	0.606	0.612	-1.0	100	0.00
58 TMP n-Propylbenzene	2.257	2.471	-9.5	100	0.00
59 TMP Bromobenzene	0.821	0.877	-6.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.921	-4.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.485#	-12.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.345#	-2.4	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.404	-9.5	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.656	-6.7	100	0.00
65 TMP tert-Butylbenzene	1.946	2.053	-5.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.045	-3.5	100	0.00
67 TMP sec-Butylbenzene	2.396	2.465	-2.9	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.452	-2.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.583	-7.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.500	-3.0	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.529	-7.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.099	-8.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.006	-0.9	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.591	-0.5	100	0.00
75 TMP Naphthalene	1.938	1.891	2.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.824	-4.4	100	0.00

(#) = Out of Range

SPCC's out = 6 CCC's out = 0



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.75	96	132290	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	109564	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	67837	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	42113	9.993	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.90%	
30) 1,2-Dichloroethane-d4	4.45	102	7668	9.708	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	97.10%	
35) Toluene-d8	6.11	98	113372	9.534	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	95.30%	
57) 4-Bromofluorobenzene	8.51	95	41524	10.101	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	101.00%	
Target Compounds							
							Qvalue
2) Ethanol	2.34	45	156	No Calib			
4) Dichlorodifluoromethane	1.12	85	6995	0.908	ppb		92
5) Chloromethane	1.27	50	5360	1.050	ppb		73
6] Vinyl chloride	1.35	62	5016m	1.016	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.65	64	2598m	0.983	ppb		
9) Trichlorofluoromethane	1.84	101	12806	0.953	ppb		92
10) 2-Propanol	2.34	45	156	No Calib			
11) Acetone	2.34	58	1548	6.397	ppb	#	74
12] 1,1-Dichloroethene	2.28	96	3209m	0.978	ppb		
13) Hexane	3.16	57	3555	0.987	ppb		90
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.83	59	1770	6.000	ppb		96
16] Methyl t-butyl ether (...)	2.94	73	8013m	1.017	ppb		
17] trans-1,2-Dichloroethene	2.92	96	3671m	1.011	ppb		
18) Diisopropyl ether (DIPE)	3.35	45	6875	0.974	ppb		94
19] 1,1-Dichloroethane	3.28	63	4598	1.020	ppb		99
20) Ethyl t-butyl ether (E...)	3.66	87	3748	0.987	ppb		93
21) 2,2-Dichloropropane	3.77	77	3313m	0.744	ppb		
22] cis-1,2-Dichloroethene	3.77	96	4007m	1.022	ppb		
23) Chloroform	4.04	83	5835	0.999	ppb		94
24) 2-Butanone (MEK)	3.79	43	6556	4.929	ppb		97
25) t-Amyl methyl ether (T...)	4.61	73	7363	1.011	ppb		99
26] 1,2-Dichloroethane (EDC)	4.53	62	4374	1.069	ppb		96
27] 1,1,1-Trichloroethane	4.19	97	6260	1.011	ppb		93
28) 1,1-Dichloropropene	4.33	75	4488	1.060	ppb		88
29) Carbon tetrachloride	4.33	117	6392	0.972	ppb		97
31] Benzene	4.50	78	11304	1.067	ppb		95
32] Trichloroethene	5.05	95	4490	1.116	ppb		85
33) 1,2-Dichloropropane	5.24	63	2468	0.950	ppb		99
34) Bromodichloromethane	5.48	83	4062	0.970	ppb		97
36) Dibromomethane	5.35	93	2371	1.038	ppb		83

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

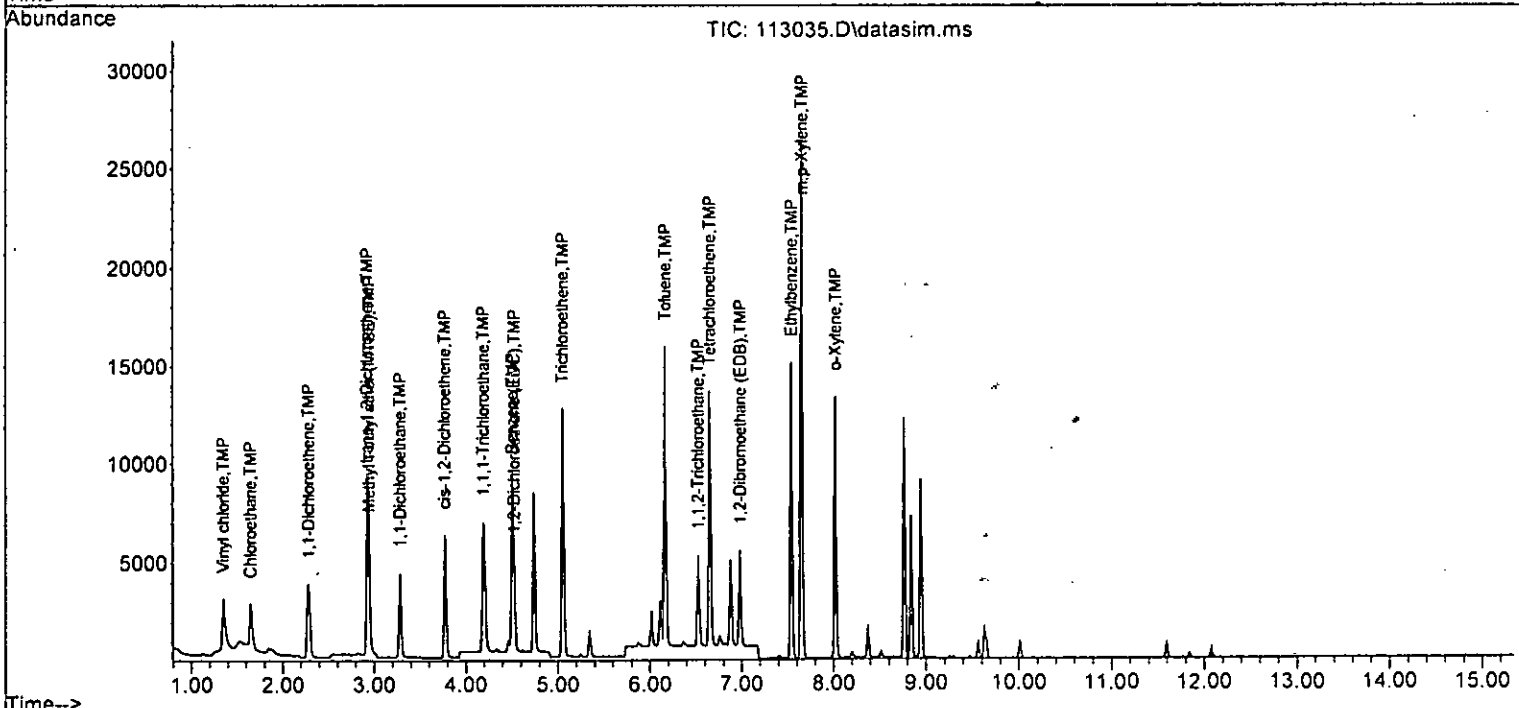
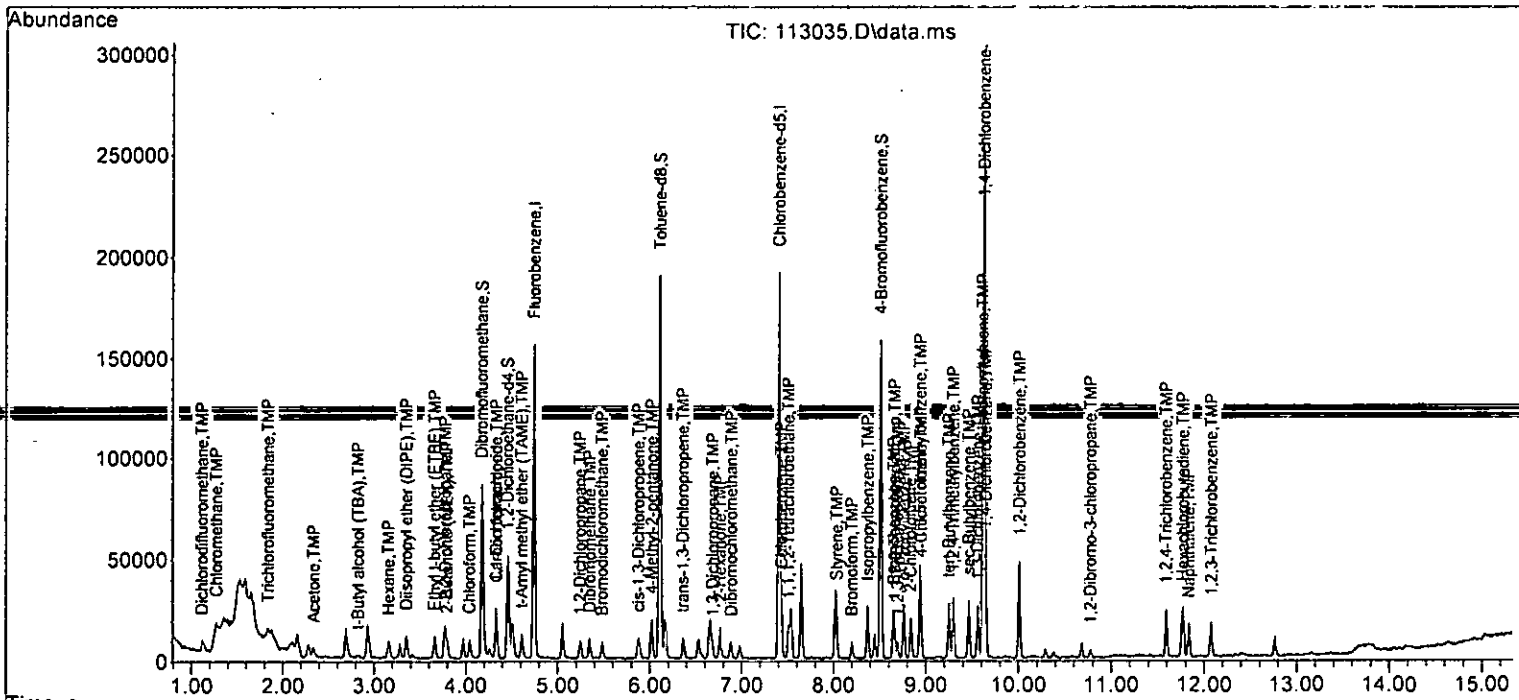
Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	2296	4.373	ppb	77
38) cis-1,3-Dichloropropene	5.88	75	4436	1.021	ppb	98
40] Toluene	6.16	92	8063	1.053	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	3926	1.007	ppb	94
42] 1,1,2-Trichloroethane	6.53	83	2263	1.049	ppb	96
43) 2-Hexanone	6.76	43	8636	5.569	ppb	97
44) 1,3-Dichloropropane	6.68	76	3976	1.074	ppb	88
45] Tetrachloroethene	6.65	164	4983	1.036	ppb	97
46) Dibromochloromethane	6.88	129	4856	1.042	ppb	96
47] 1,2-Dibromoethane (ED8)	6.98	107	3744	1.078	ppb	90
48) Chlorobenzene	7.43	112	10507	1.017	ppb	96
49] Ethylbenzene	7.54	91	15288	1.080	ppb	98
<del>50) 1,1,1,2-Tetrachloroethane</del>	<del>7.51</del>	<del>131</del>	<del>4502</del>	<del>0.996</del>	<del>ppb</del>	<del>95</del>
51] m,p-Xylene	7.65	106	13643	2.173	ppb	98
52] o-Xylene	8.02	106	6554	1.075	ppb	96
53) Styrene	8.03	104	9932	1.068	ppb	97
54) Isopropylbenzene	8.37	105	15654	1.056	ppb	99
55) Bromoform	8.20	173	3307	0.998	ppb	98
58) n-Propylbenzene	8.77	91	16765	1.095	ppb	94
59) Bromobenzene	8.65	156	5947	1.067	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	13029	1.046	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.66	83	3290	1.120	ppb	96
62) 1,2,3-Trichloropropane	8.70	75	2340	1.022	ppb	95
63) 2-Chlorotoluene	8.84	91	9527	1.095	ppb	99
64) 4-Chlorotoluene	8.95	91	11232	1.067	ppb	93
65) tert-Butylbenzene	9.25	119	13928	1.055	ppb	95
66) 1,2,4-Trimethylbenzene	9.30	105	13872	1.035	ppb	99
67) sec-Butylbenzene	9.46	105	16720	1.029	ppb	99
68) p-Isopropyltoluene	9.61	119	16632	1.022	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	10738	1.072	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	10175	1.030	ppb	97
71) 1,2-Dichlorobenzene	10.01	146	10372	1.075	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.77	75	671	1.092	ppb #	75
73) 1,2,4-Trichlorobenzene	11.59	180	6822	1.008	ppb	97
74) Hexachlorobutadiene	11.77	225	4006	1.005	ppb	95
75) Naphthalene	11.83	128	12829	0.976	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	5587	1.044	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

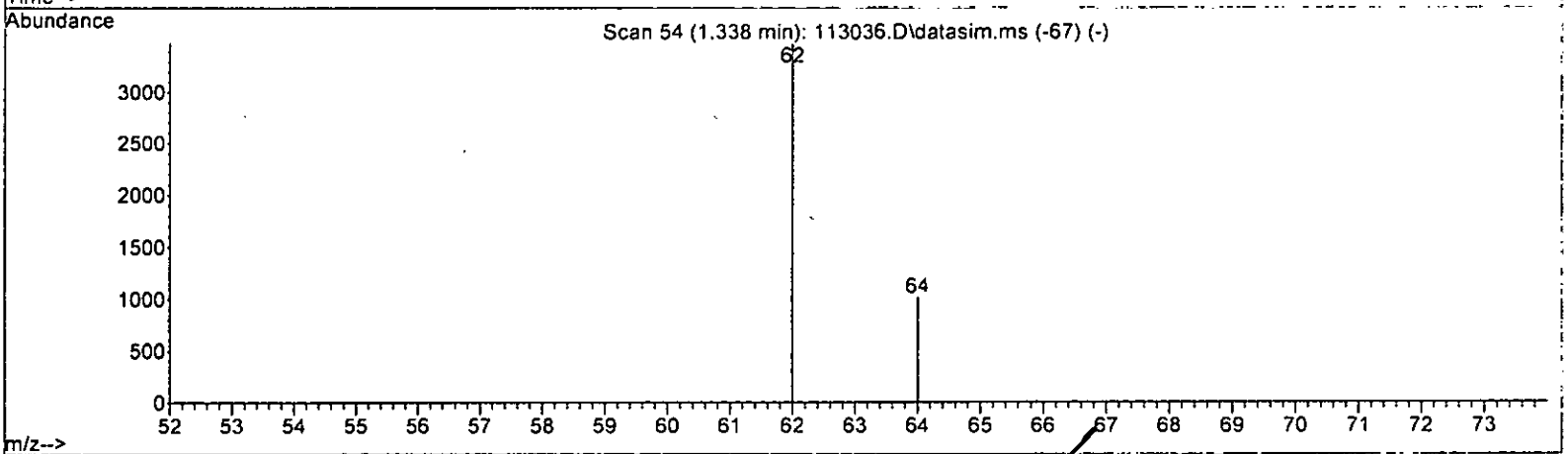
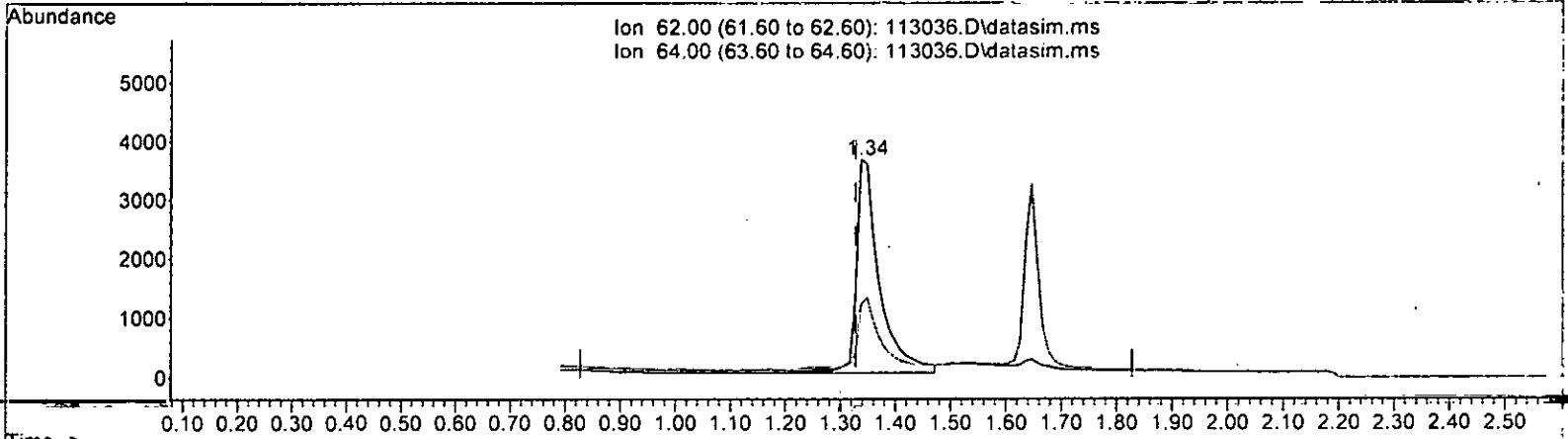
Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

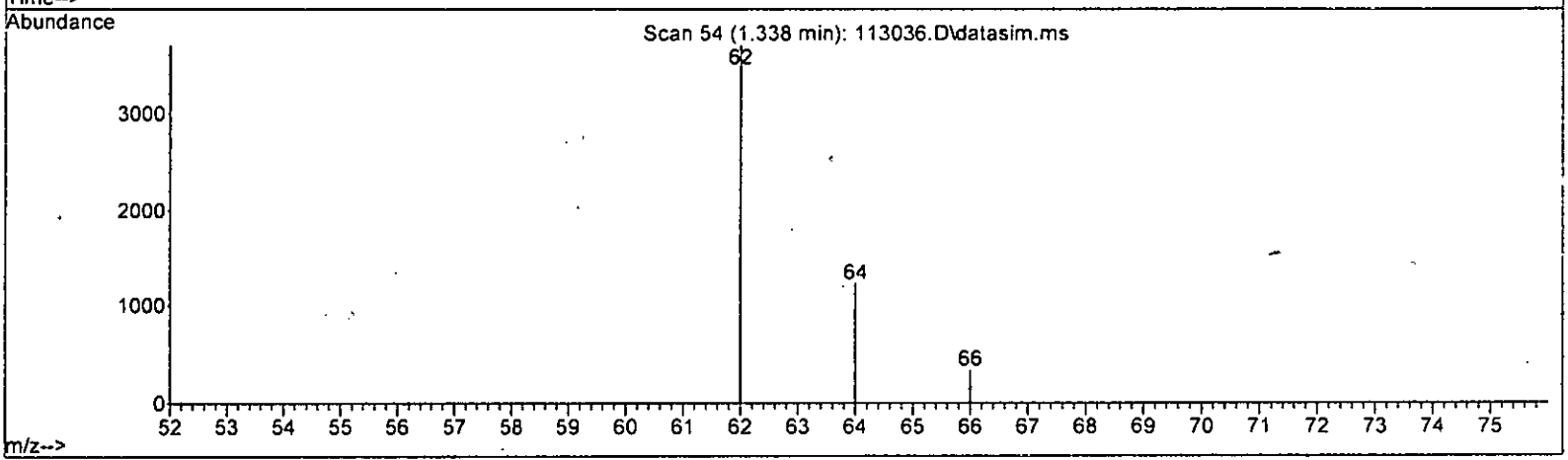
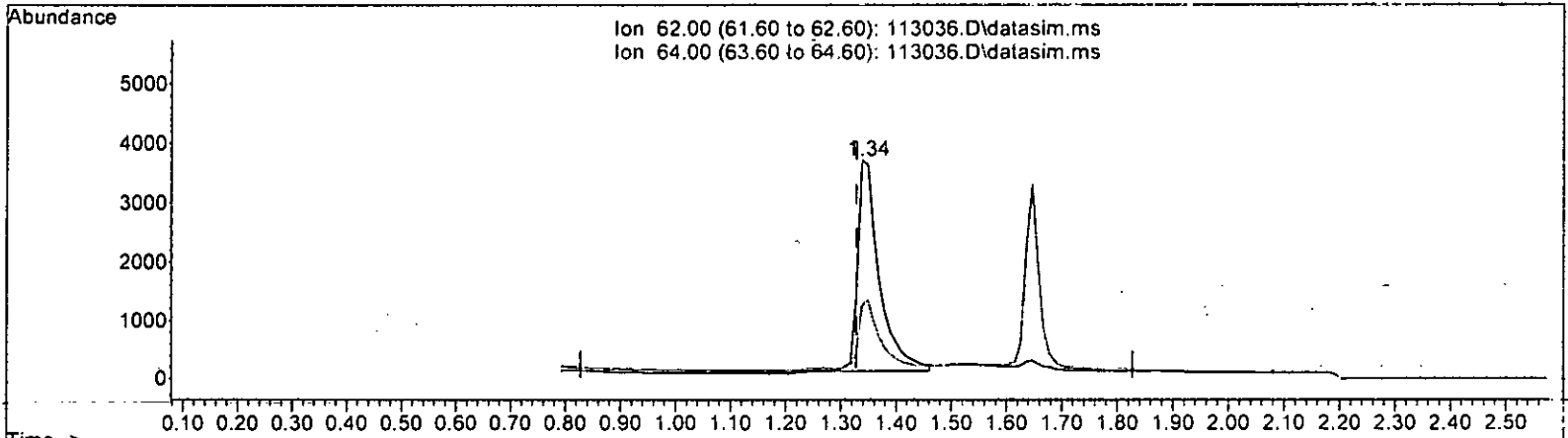
m 12.1

(6) Vinyl chloride (TMP)		
Retention Time	Concentration	Response
1.338min (+ 0.010)	2.081 ppb	10370
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	30.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Oual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 1.953 ppb m

response 9729

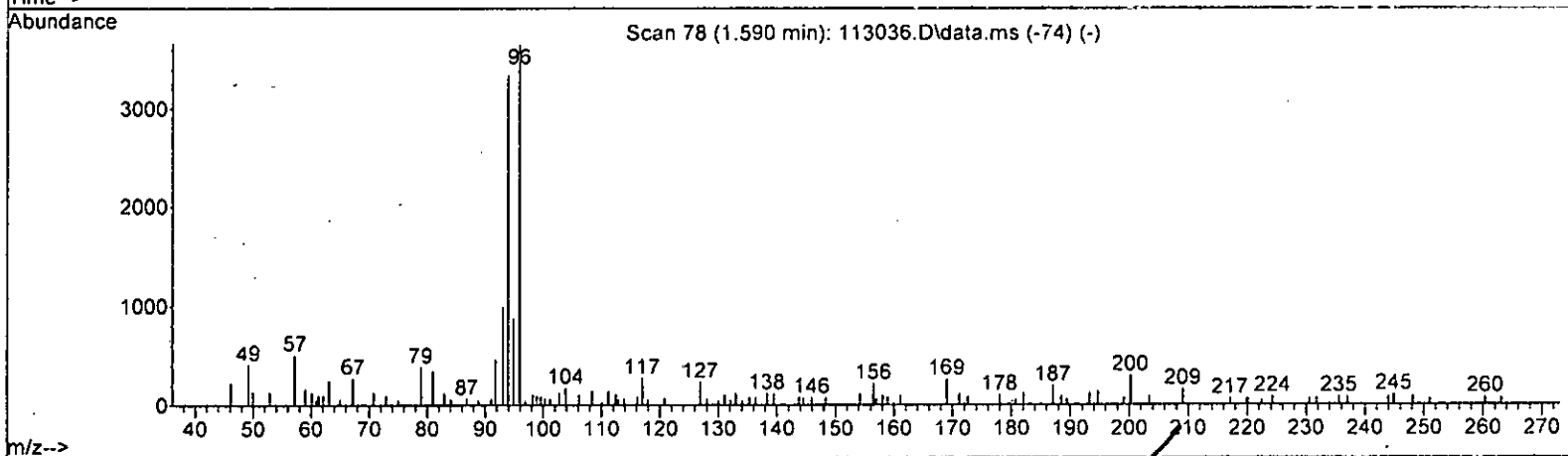
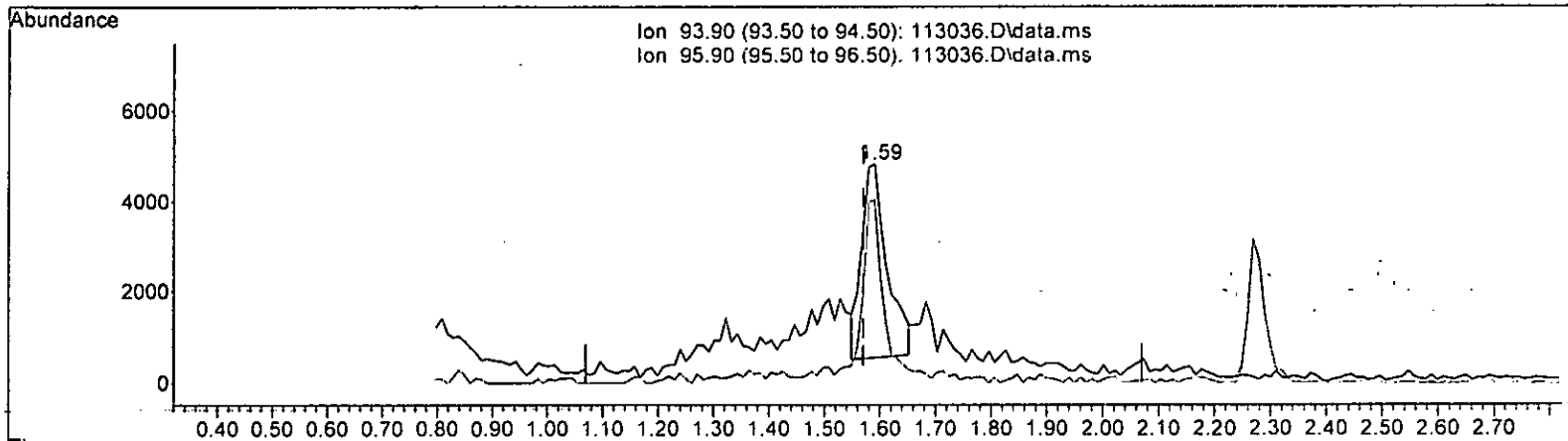
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	33.23
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(7) Bromomethane (TMP)

1.590min (+ 0.020) 2.629 ppb

response 13519

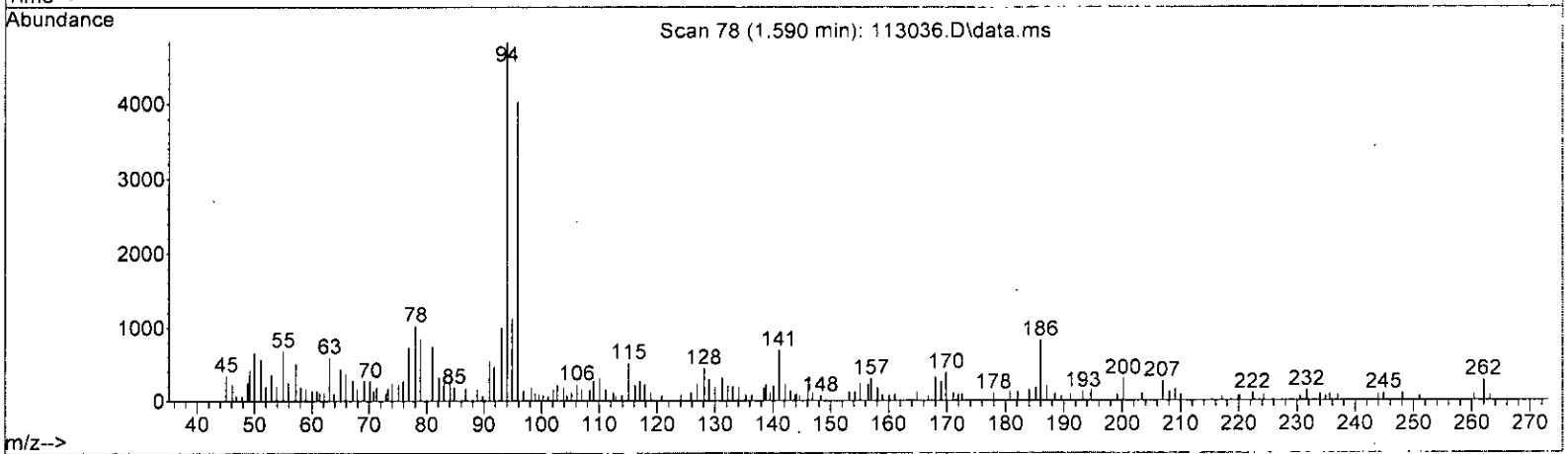
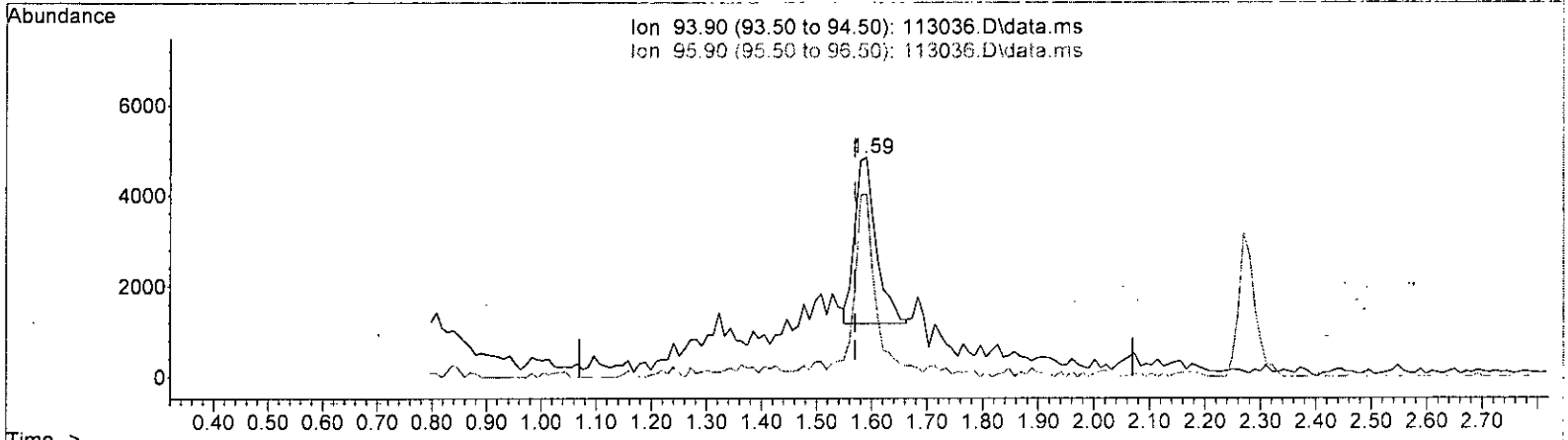
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	93.10	104.56
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(7) Bromomethane (TMP) m 12.1

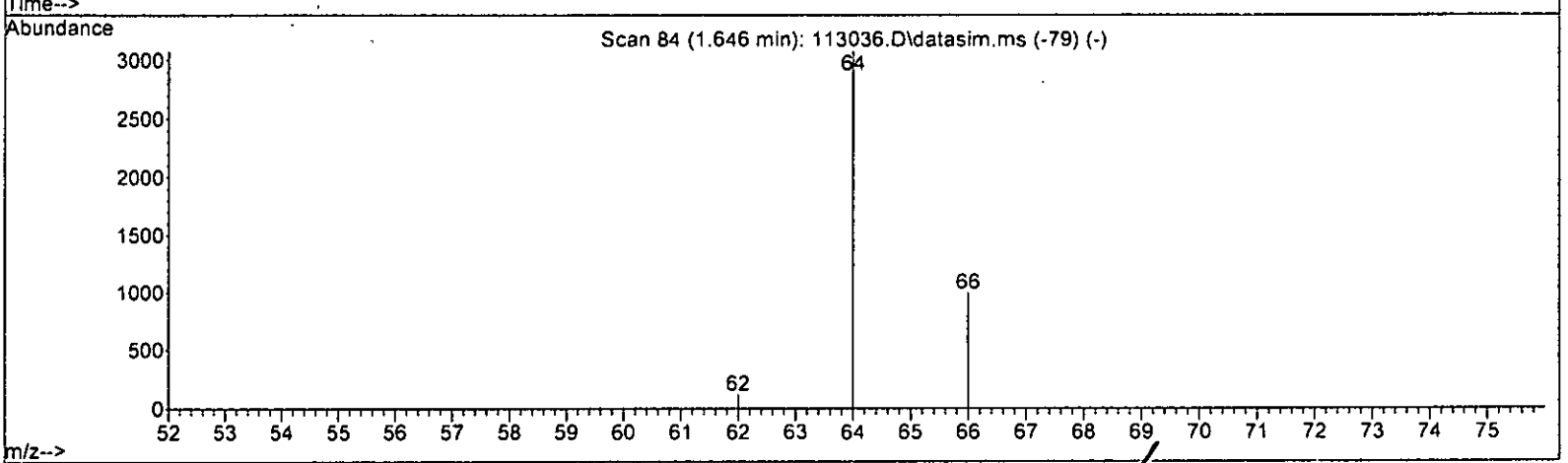
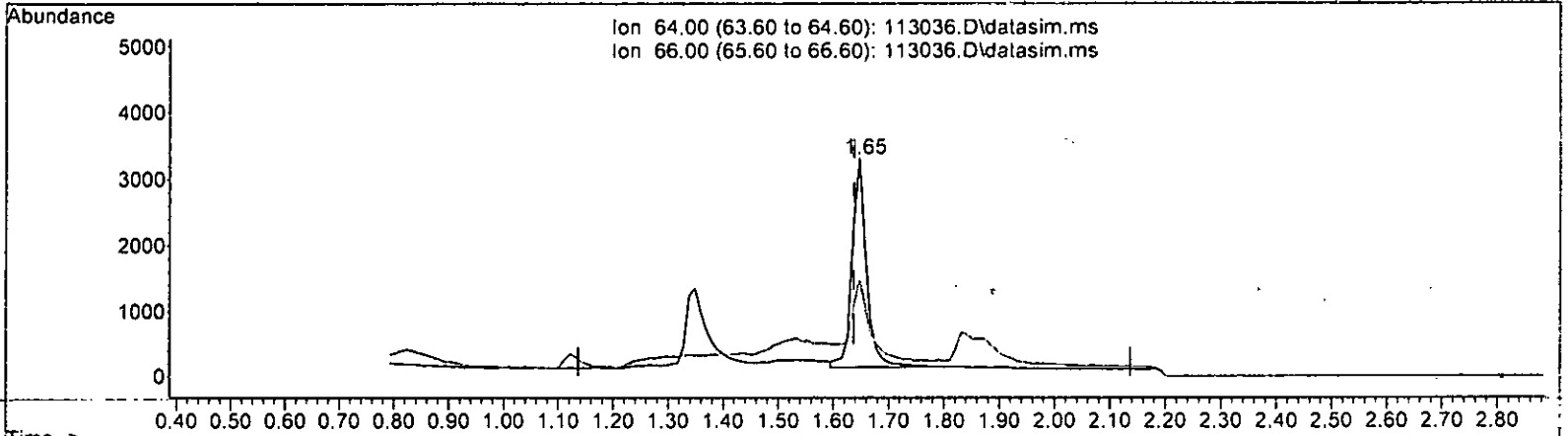
1.590min (+ 0.020) 1.905 ppb m

response	9797
Ion	Exp% Act%
93.90	100.00 100.00
95.90	93.10 83.34
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

*M R.1*

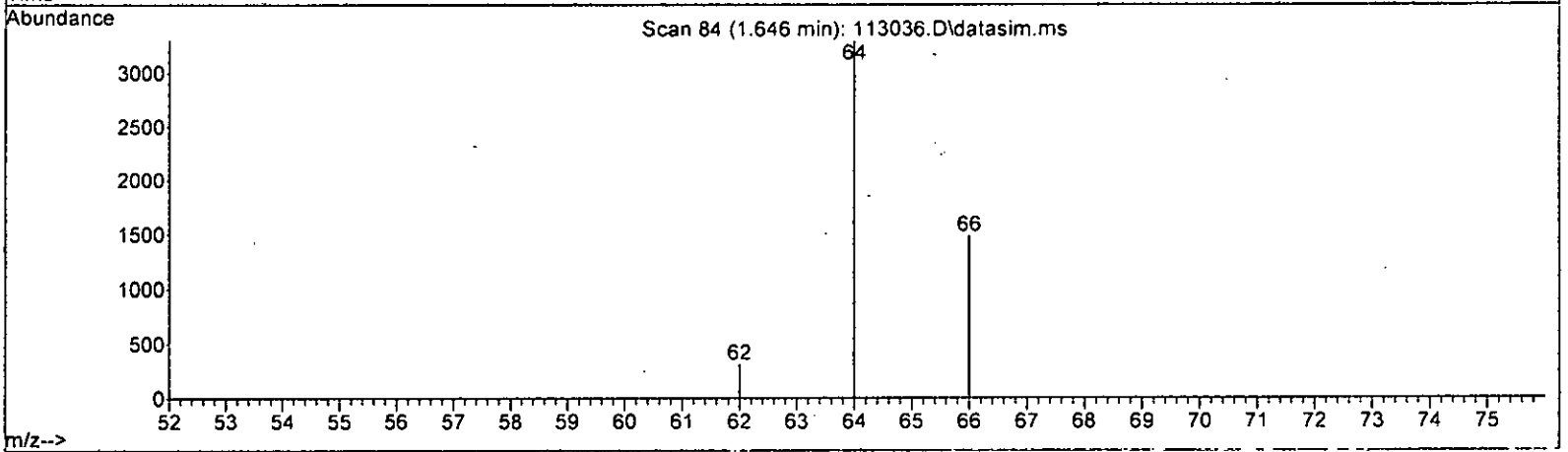
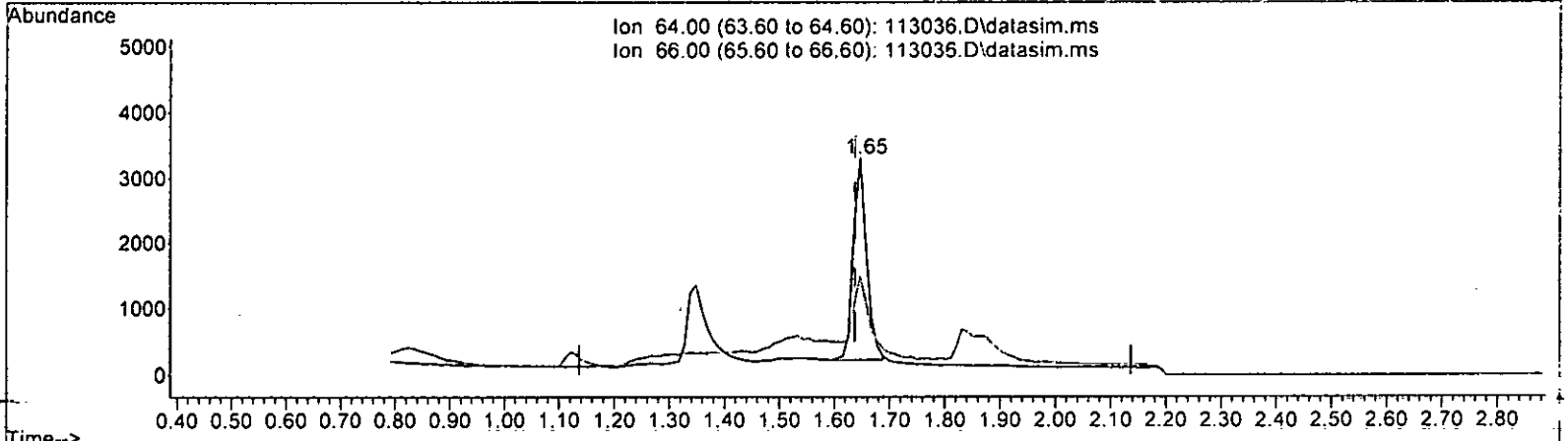
(8) Chloroethane (TMP)		
1.646min (+ 0.009)	2.144 ppb	
response	5718	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	39.02
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report\_(Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

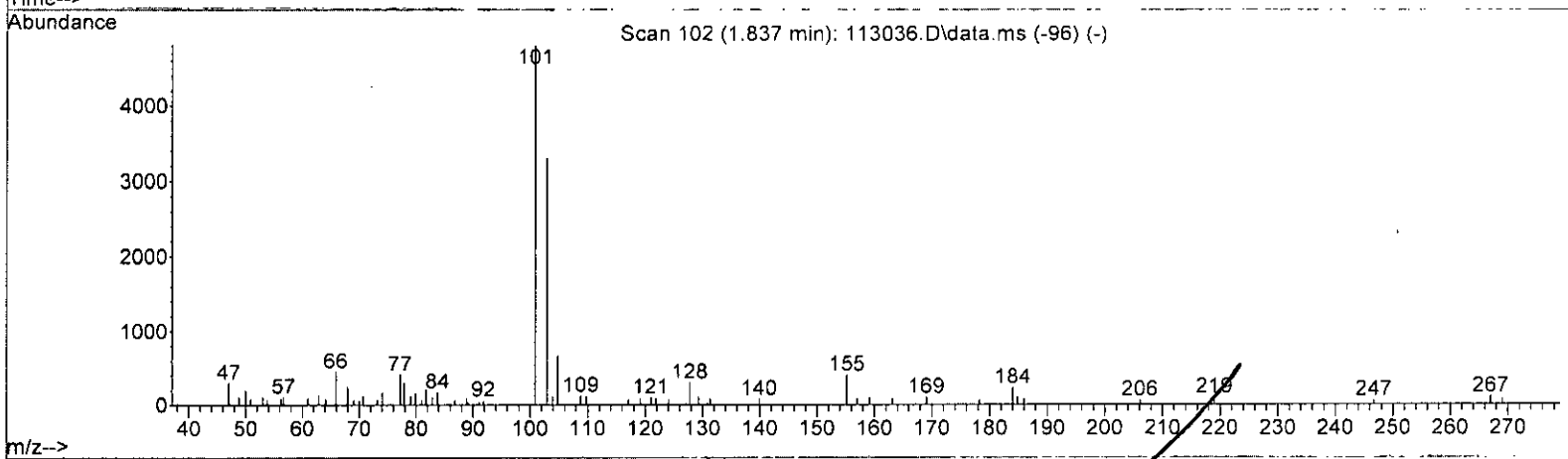
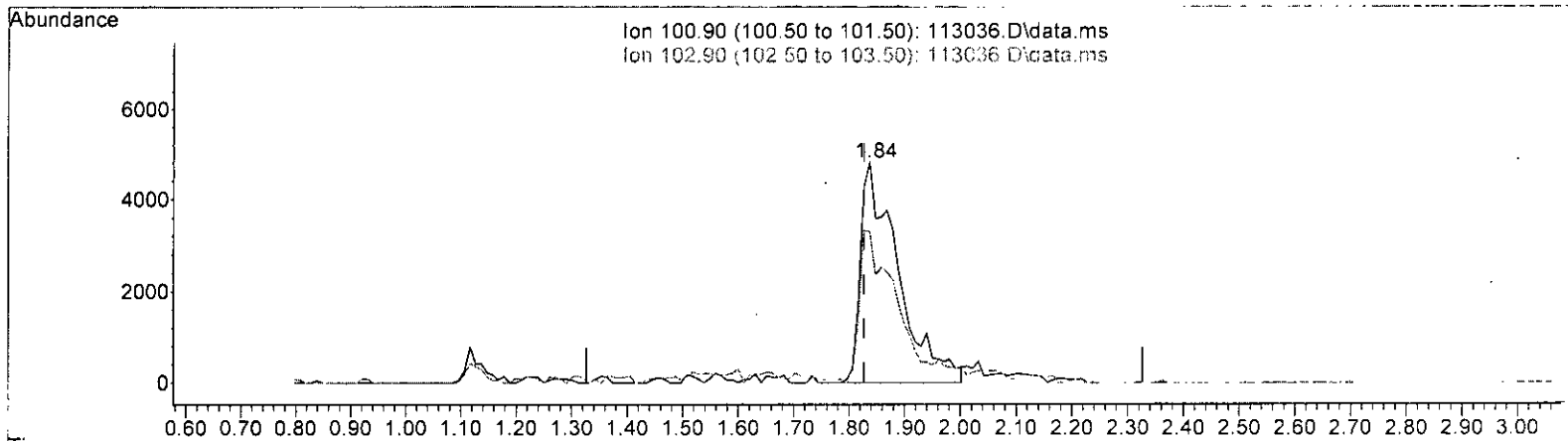
m 12.1

(8) Chloroethane (TMP)			
1.646min (+ 0.009)		1.894 ppb m	
response	5053		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	36.40	44.98	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit).

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.837min (+ 0.010) 1.655 ppb

response 22435

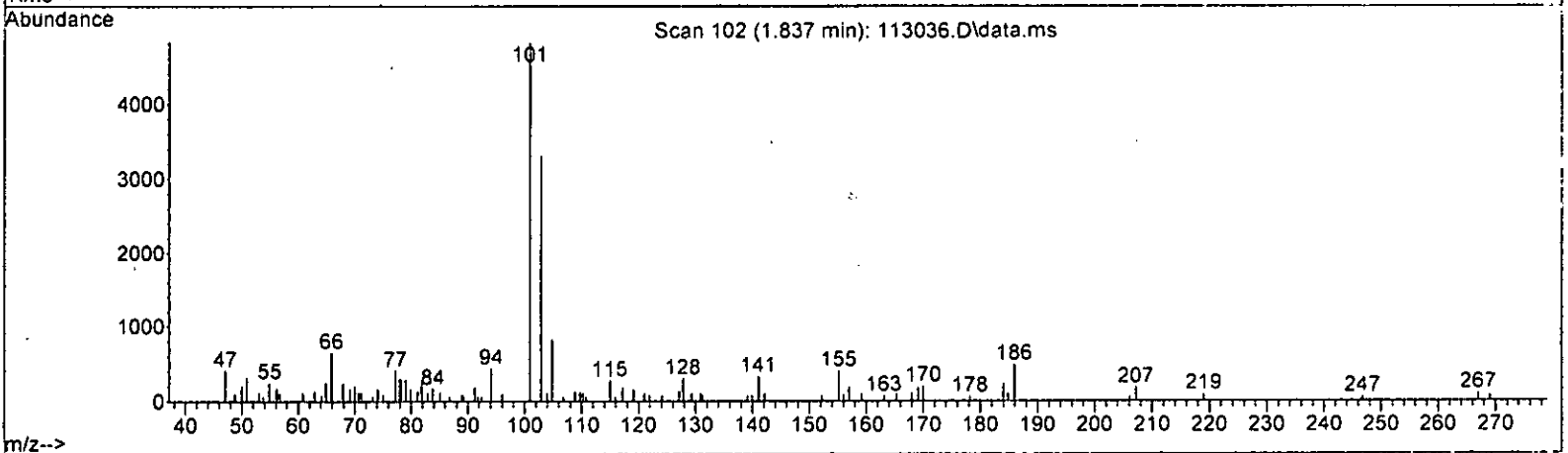
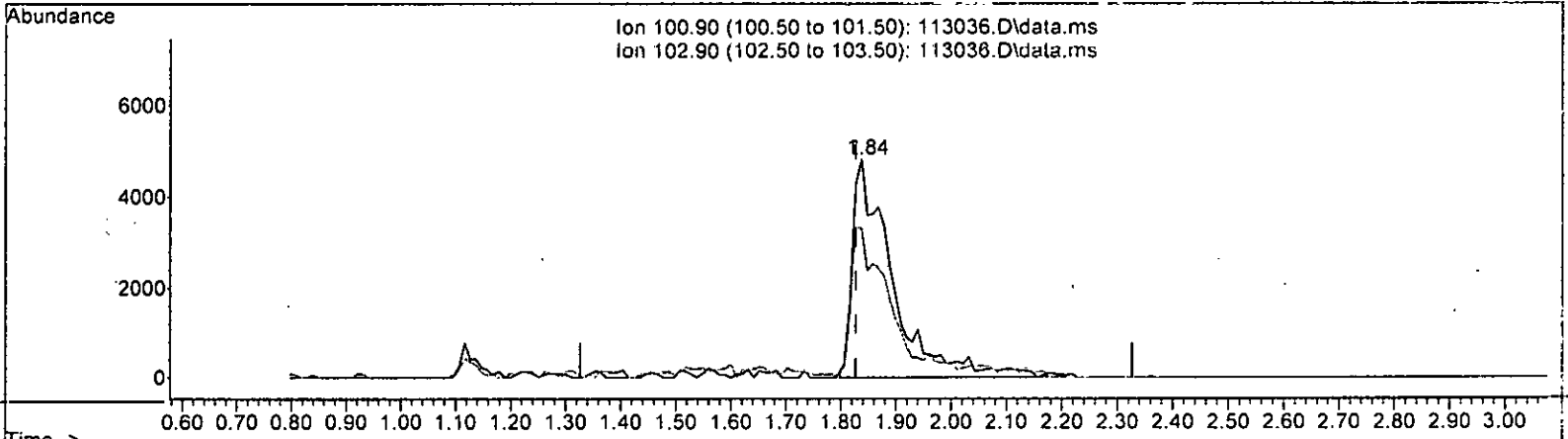
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	67.50	67.30
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.837min (+ 0.010) 1.963 ppb m

response 26619

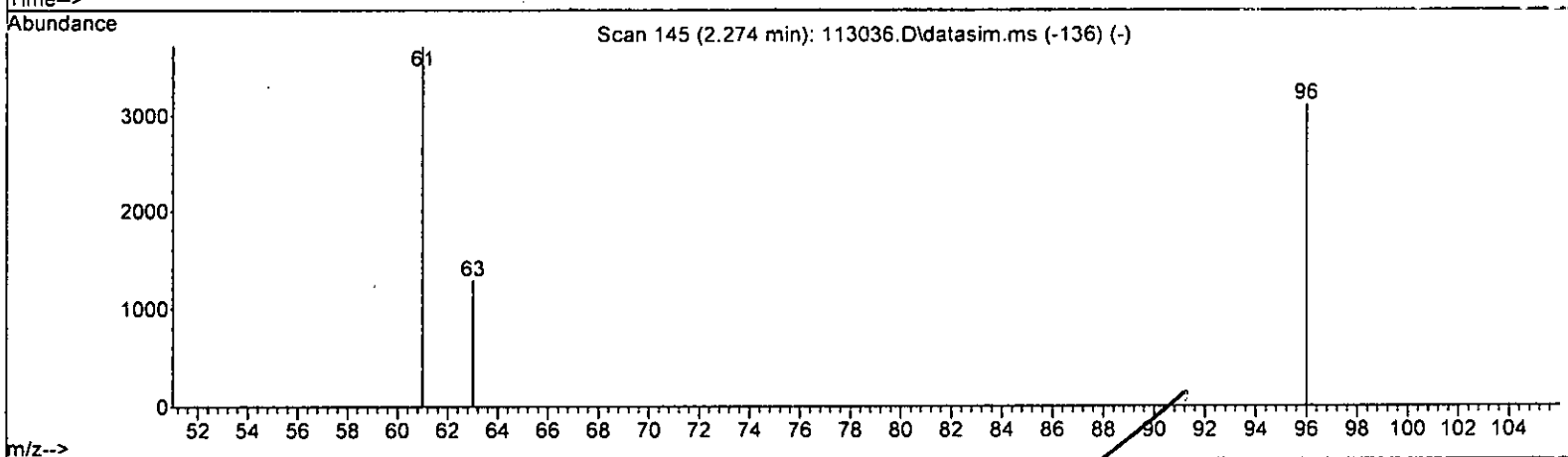
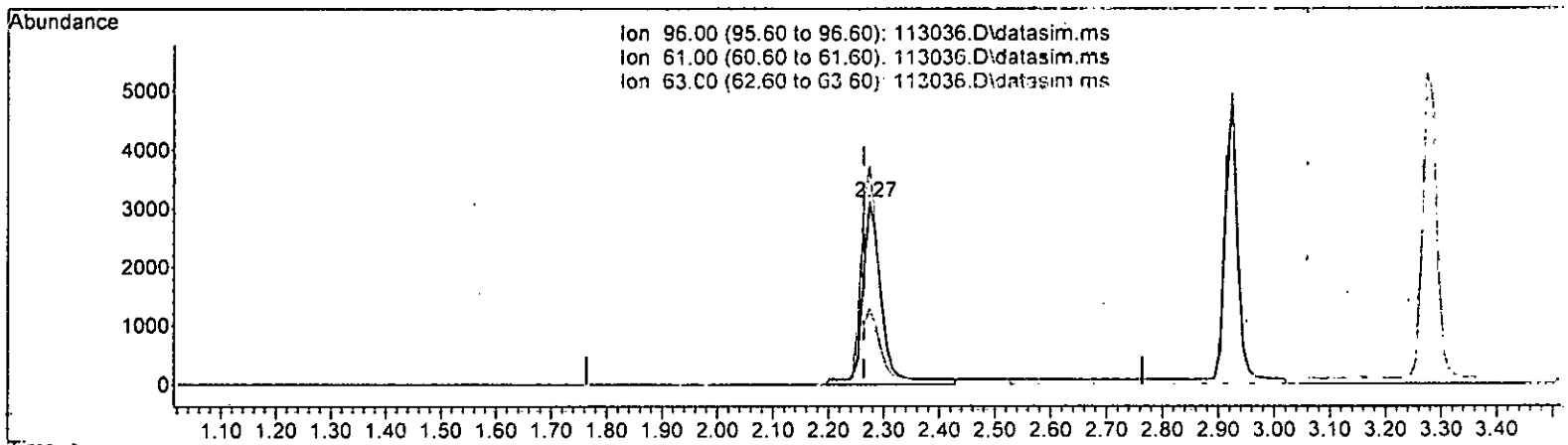
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	67.50	68.51
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(12) 1,1-Dichloroethene (TMP) *m 12.1*

2.274min (+ 0.010) 2.261 ppb

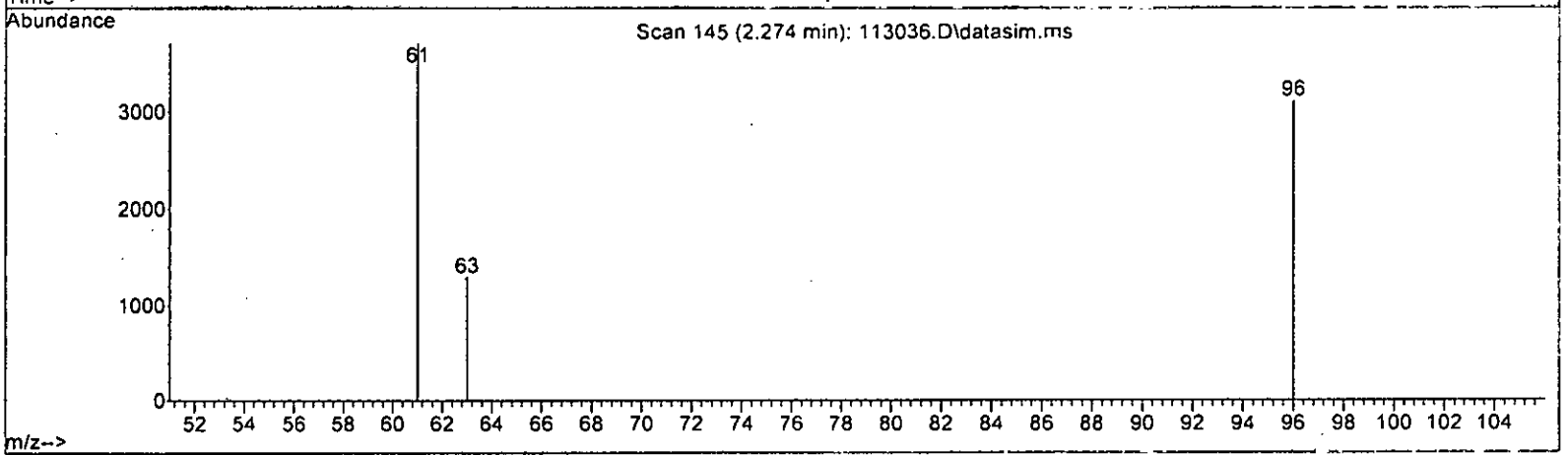
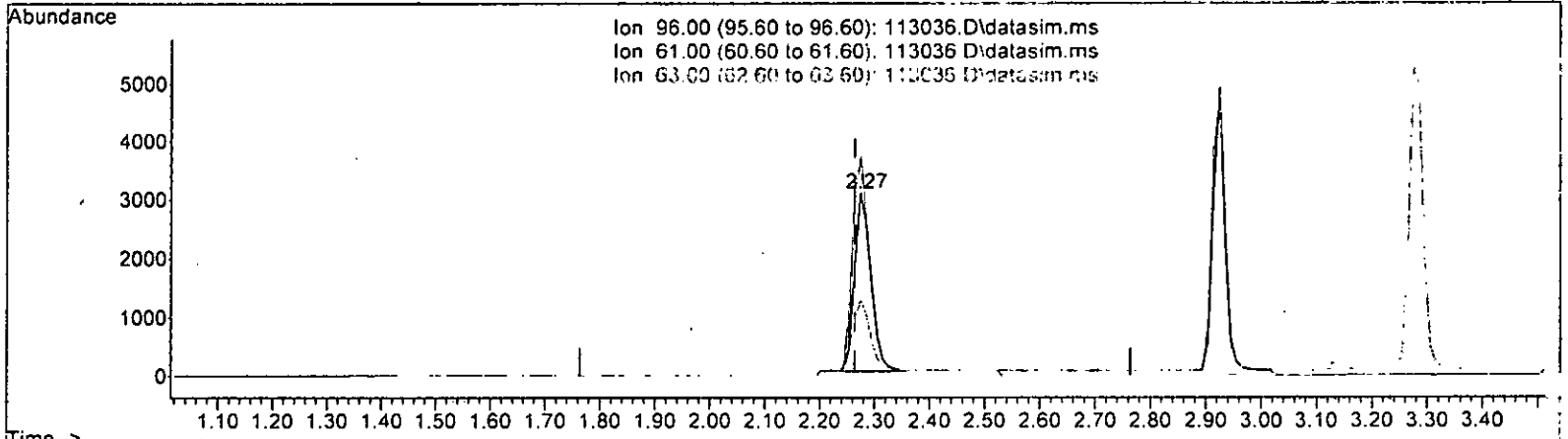
response 7484

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	119.30
63.00	41.10	41.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(12) 1,1-Dichloroethene (TMP) *in 12.1*

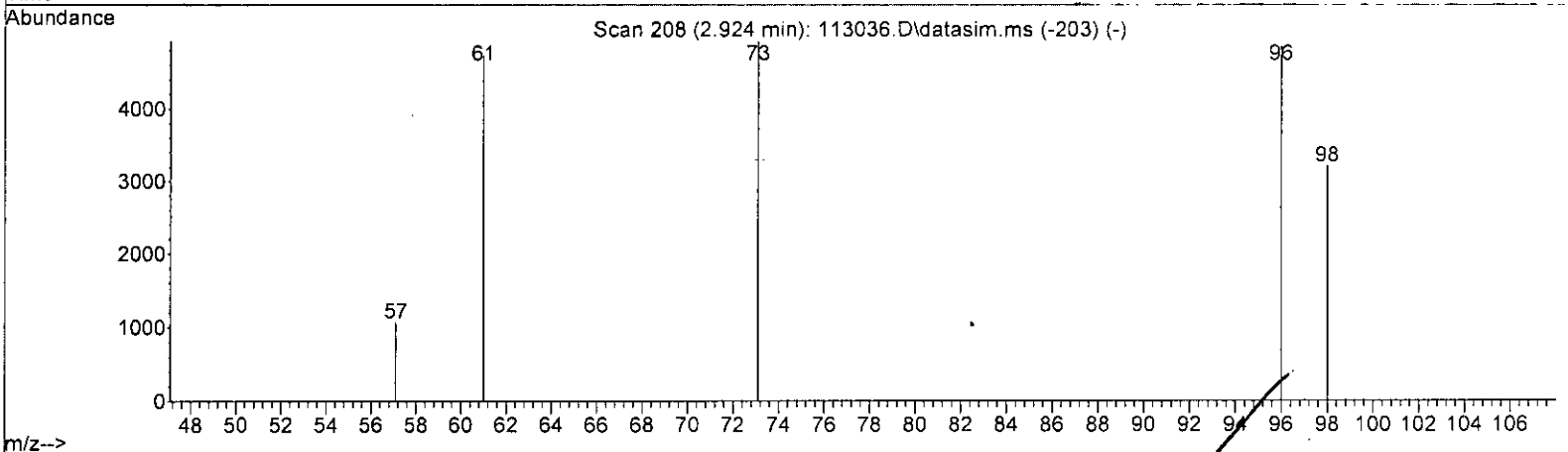
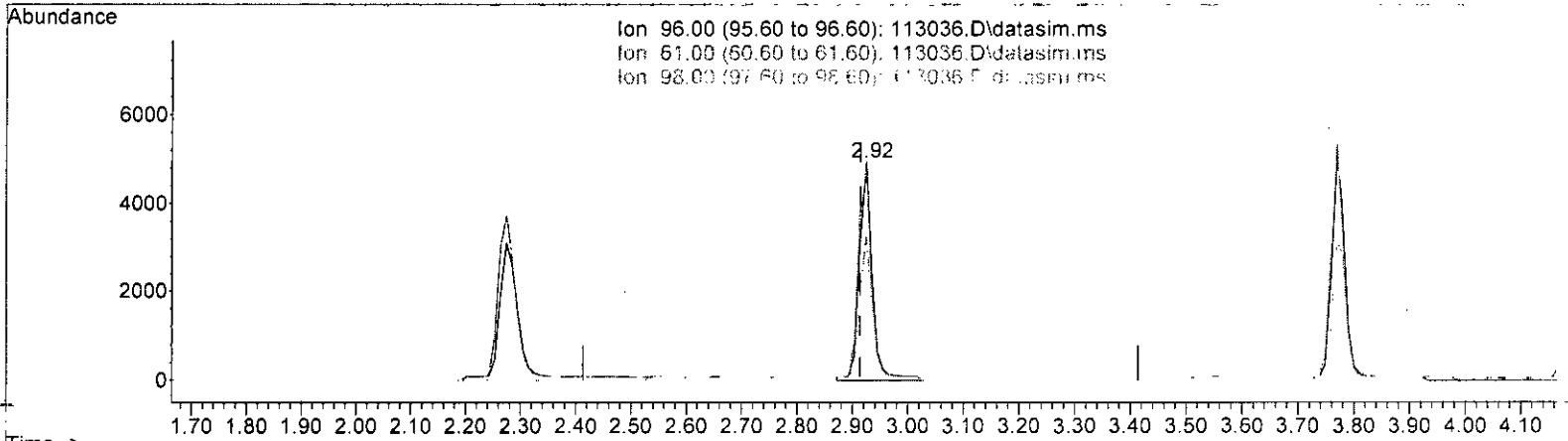
2.274min (+ 0.010) 1.922 ppb m

response	6362	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	119.30
63.00	41.10	41.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 2.143 ppb

response 7852

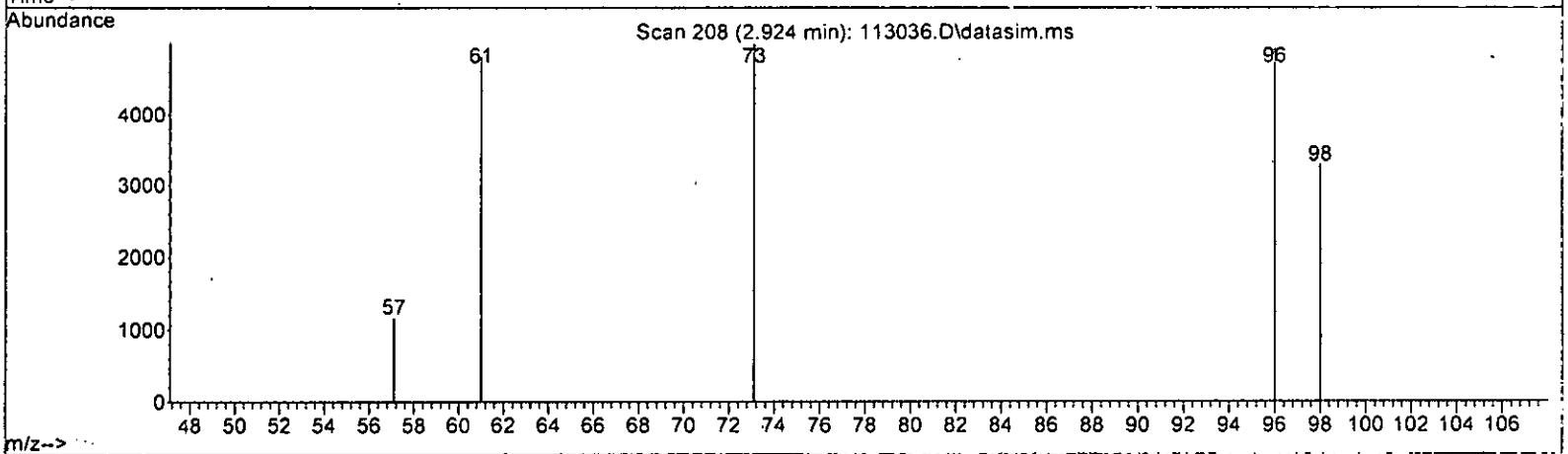
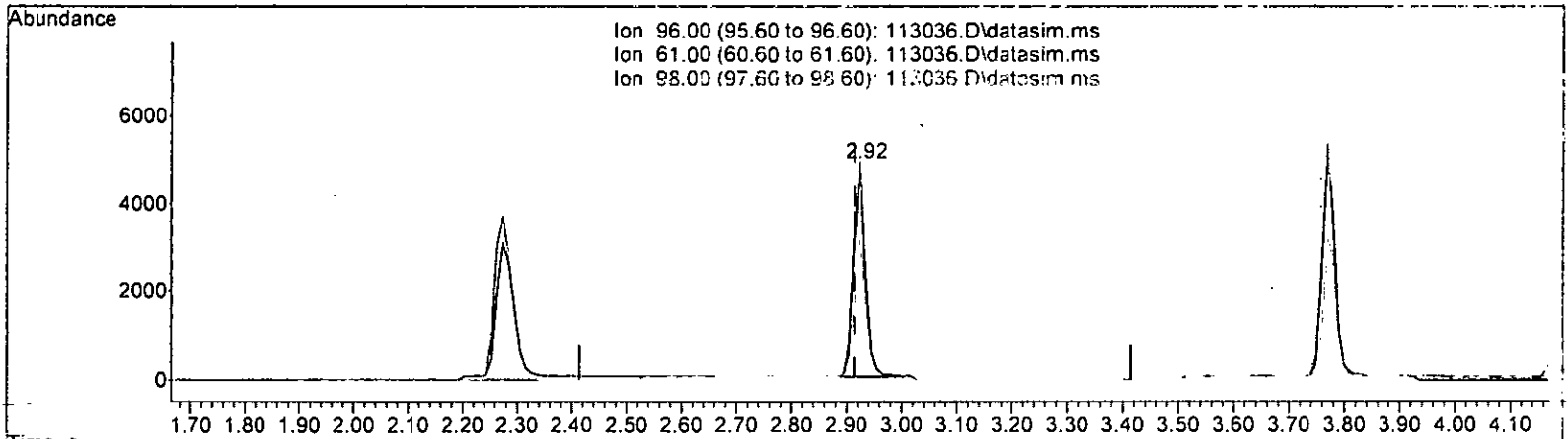
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	97.40
98.00	62.70	66.69
0.00	0.00	0.00

*M 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

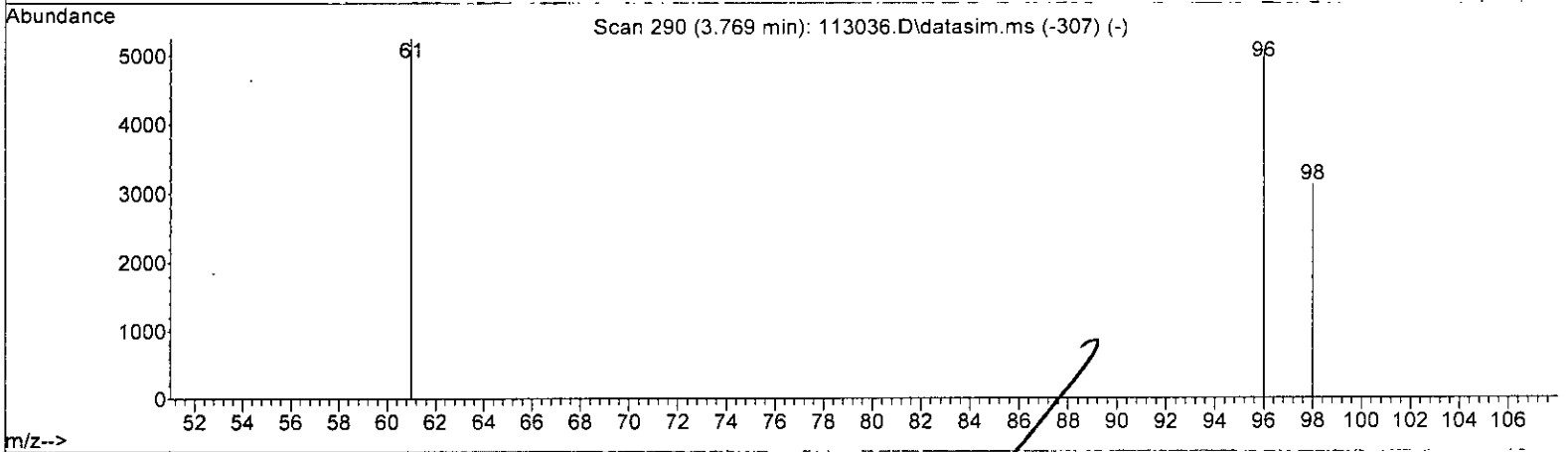
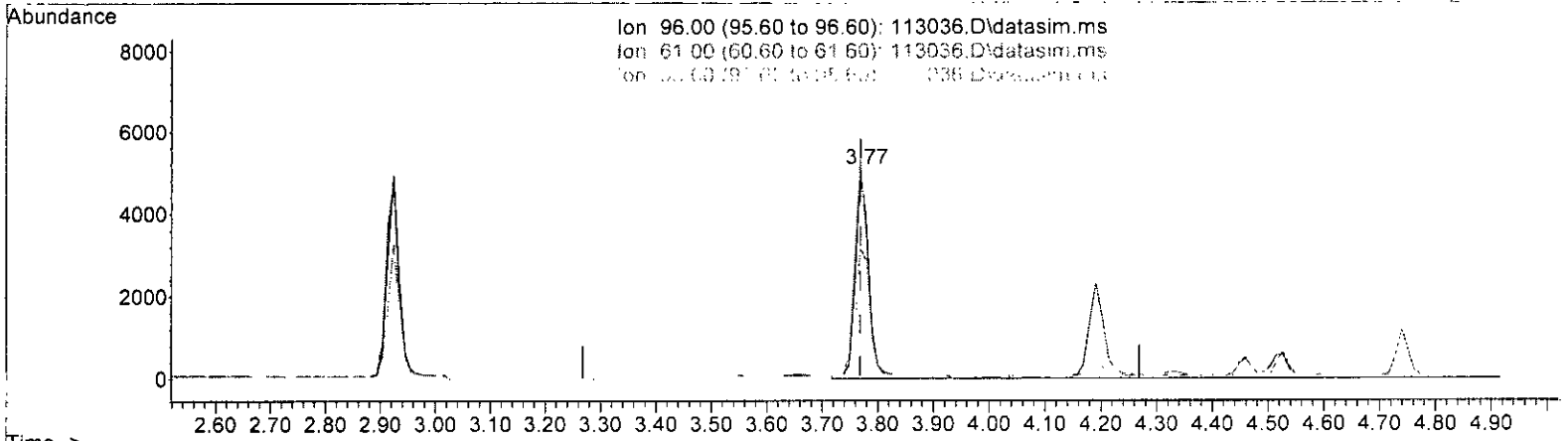
(17) trans-1,2-Dichloroethene (TMP) *m* 12.1  
 2.924min (+ 0.010) 1.975 ppb m  
 response 7234

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	97.40
98.00	62.70	66.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(22) cis-1,2-Dichloroethene (TMP)  
 3.769min (-0.000) 2.242 ppb

response	8869	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	97.00	103.56
98.00	68.10	61.33
0.00	0.00	0.00

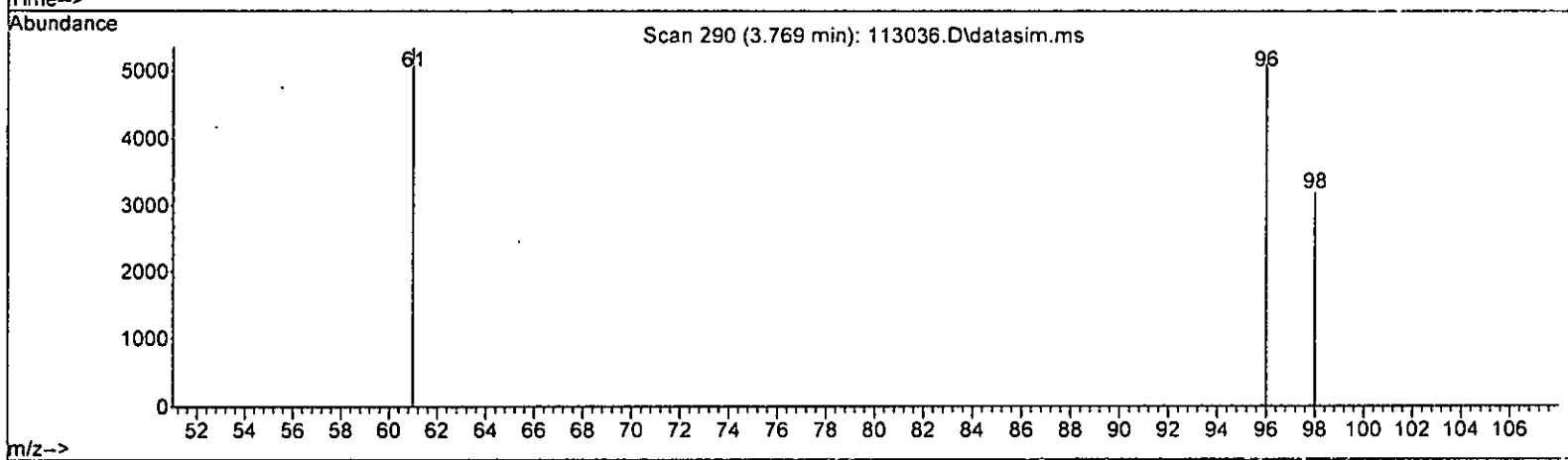
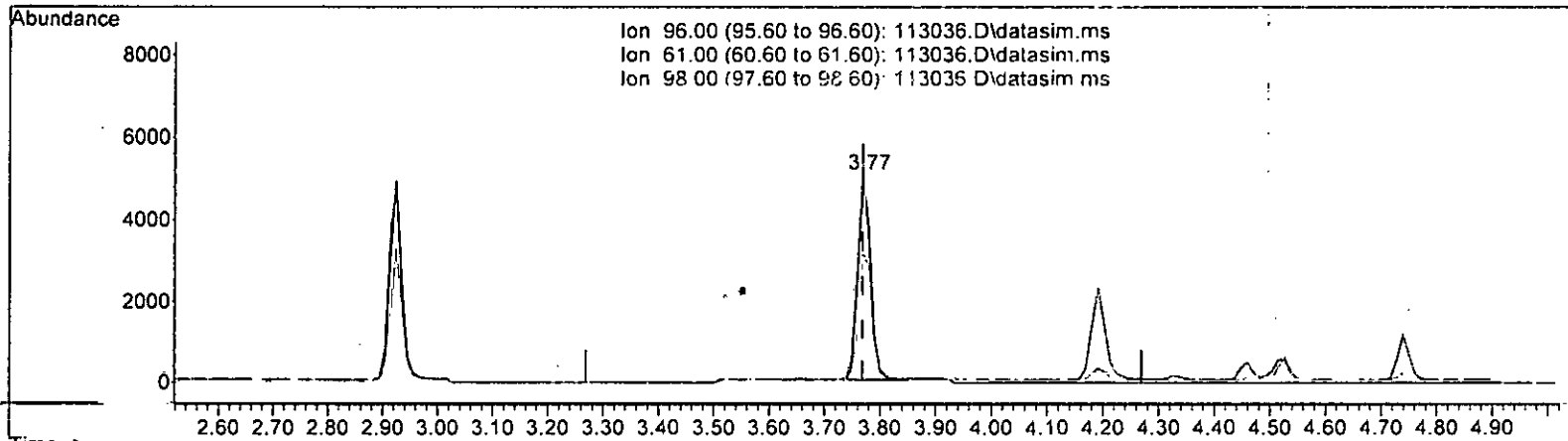
*ms 12.1*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(22) cis-1,2-Dichloroethene (TMP) *m 12.1*

3.769min (-0.000) 1.993 ppb m

response	7885
Ion	Exp% Act%
96.00	100.00 100.00
61.00	97.00 105.09
98.00	68.10 62.67
0.00	0.00 0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
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 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	9.742	2.6	100	0.00
4 TMP Dichlorodifluoromethane	2.000	1.743	12.8	93	0.00
5 TMP Chloromethane	2.000	2.204	-10.2	99	0.00
6 TMP Vinyl chloride	2.000	1.953	2.3	99	0.00
7 TMP Bromomethane	2.000	1.905	4.7	105	0.02
8 TMP Chloroethane	2.000	1.894	5.3	99	0.00
9 TMP Trichlorofluoromethane	2.000	1.963	1.8	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	10.000	10.280	-2.8	100	0.00
12 TMP 1,1-Dichloroethene	2.000	1.922	3.9	100	0.01
13 TMP Hexane	2.000	2.004	-0.2	100	0.00
14 TMP Methylene chloride	2.000	2.138	-6.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	10.000	10.513	-5.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	2.000	2.072	-3.6	103	0.01
17 TMP trans-1,2-Dichloroethene	2.000	1.975	1.2	101	0.01
18 TMP Diisopropyl ether (DIPE)	2.000	1.898	5.1	100	0.00
19 TMP 1,1-Dichloroethane	2.000	2.022	-1.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	2.000	1.962	1.9	100	0.00
21 TMP 2,2-Dichloropropane	2.000	1.874	6.3	100	0.01
22 TMP cis-1,2-Dichloroethene	2.000	1.993	0.3	101	0.00
23 TMP Chloroform	2.000	1.954	2.3	100	0.00
24 TMP 2-Butanone (MEK)	10.000	9.948	0.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	2.000	1.956	2.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	2.000	2.060	-3.0	102	0.01
27 TMP 1,1,1-Trichloroethane	2.000	2.010	-0.5	100	0.00
28 TMP 1,1-Dichloropropene	2.000	1.996	0.2	100	0.00
29 TMP Carbon tetrachloride	2.000	1.927	3.6	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.176	-1.8	100	0.00
31 TMP Benzene	2.000	2.100	-5.0	100	0.00
32 TMP Trichloroethene	2.000	2.131	-6.5	104	0.00
33 TMP 1,2-Dichloropropane	2.000	2.049	-2.4	100	0.00
34 TMP Bromodichloromethane	2.000	1.848	7.6	100	0.00
35 S Toluene-d8	10.000	9.420	5.8	100	0.00
36 TMP Dibromomethane	2.000	1.988	0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	10.000	10.322	-3.2	100	0.01
38 TMP cis-1,3-Dichloropropene	2.000	1.965	1.7	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	2.000	2.073	-3.6	100	0.00
41 TMP trans-1,3-Dichloropropene	2.000	1.972	1.4	100	0.00
42 TMP 1,1,2-Trichloroethane	2.000	2.054	-2.7	100	0.00
43 TMP 2-Hexanone	10.000	10.227	-2.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	2.000	2.042	-2.1	100	0.01
45 TMP Tetrachloroethene	2.000	2.031	-1.6	100	0.00
46 TMP Dibromochloromethane	2.000	1.982	0.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	2.000	2.114	-5.7	100	0.01
48 TMP Chlorobenzene	2.000	2.083	-4.2	100	0.00
49 TMP Ethylbenzene	2.000	2.133	-6.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	2.000	2.021	-1.0	100	0.00
51 TMP m,p-Xylene	4.000	4.291	-7.3	100	0.00
52 TMP o-Xylene	2.000	2.109	-5.4	100	0.00
53 TMP Styrene	2.000	2.040	-2.0	100	0.00
54 TMP Isopropylbenzene	2.000	2.097	-4.8	100	0.00
55 TMP Bromoform	2.000	1.879	6.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.149	-1.5	100	0.00
58 TMP n-Propylbenzene	2.000	2.047	-2.4	100	0.00
59 TMP Bromobenzene	2.000	2.025	-1.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.000	2.036	-1.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	2.000	2.046	-2.3	100	0.00
62 TMP 1,2,3-Trichloropropane	2.000	1.941	2.9	100	0.00
63 TMP 2-Chlorotoluene	2.000	2.162	-8.1	100	0.00
64 TMP 4-Chlorotoluene	2.000	2.082	-4.1	100	0.00
65 TMP tert-Butylbenzene	2.000	2.010	-0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.000	1.992	0.4	100	0.00
67 TMP sec-Butylbenzene	2.000	2.054	-2.7	100	0.00
68 TMP p-Isopropyltoluene	2.000	1.996	0.2	100	0.00
69 TMP 1,3-Dichlorobenzene	2.000	1.989	0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	2.000	2.005	-0.2	100	0.00
71 TMP 1,2-Dichlorobenzene	2.000	2.014	-0.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	2.000	2.075	-3.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	2.000	1.966	1.7	100	0.00
74 TMP Hexachlorobutadiene	2.000	1.946	2.7	100	0.00
75 TMP Naphthalene	2.000	1.899	5.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	2.000	1.965	1.7	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

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 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.310	2.8	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.508	12.7	93	0.00
5 TMP Chloromethane	0.386	0.425	-10.1	99	0.00
6 TMP Vinyl chloride	0.373	0.364	2.4	99	0.00
7 TMP Bromomethane	0.385	0.367	4.7	105	0.02
8 TMP Chloroethane	0.200	0.189	5.5	99	0.00
9 TMP Trichlorofluoromethane	1.015	0.997	1.8	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.022	0.0	100	0.00
12 TMP 1,1-Dichloroethene	0.248	0.238	4.0	100	0.01
13 TMP Hexane	0.236	0.250	-5.9	100	0.00
14 TMP Methylene chloride	0.247	0.339	-37.2#	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.023#	-4.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.617	-3.5	103	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.271	1.1	101	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.506	5.1	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.344	-0.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.282	1.7	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.260	12.5	100	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.295	0.3	101	0.00
23 TMP Chloroform	0.441	0.431	2.3	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.107	-4.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.551	0.539	2.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.316	5.4	102	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.470	-0.4	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.319	0.3	100	0.00
29 TMP Carbon tetrachloride	0.497	0.479	3.6	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP Benzene	0.849	0.835	1.6	100	0.00
32 TMP Trichloroethene	0.304	0.324	-6.6	104	0.00
33 TMP 1,2-Dichloropropane	0.189	0.184	2.6	100	0.00
34 TMP Bromodichloromethane	0.316	0.292	7.6	100	0.00
35 S Toluene-d8	0.899	0.847	5.8	100	0.00
36 TMP Dibromomethane	0.173	0.172	0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.041	-2.5	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.323	1.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.722	-0.4	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.351	1.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.201	1.5	100	0.00
43 TMP 2-Hexanone	0.142	0.145	-2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.345	-2.1	100	0.01
45 TMP Tetrachloroethene	0.443	0.444	-0.2	100	0.00
46 TMP Dibromochloromethane	0.425	0.421	0.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.333	0.6	100	0.01
48 TMP Chlorobenzene	0.943	0.982	-4.1	100	0.00
49 TMP Ethylbenzene	1.560	1.348	13.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.417	-1.0	100	0.00
51 TMP m,p-Xylene	0.718	0.599	16.6	100	0.00
52 TMP o-Xylene	0.611	0.581	4.9	100	0.00
53 TMP Styrene	0.848	0.865	-2.0	100	0.00
54 TMP Isopropylbenzene	1.353	1.419	-4.9	100	0.00
55 TMP Bromoform	0.302	0.284	6.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	0.606	0.615	-1.5	100	0.00
58 TMP n-Propylbenzene	2.257	2.311	-2.4	100	0.00
59 TMP Bromobenzene	0.821	0.831	-1.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.868	-1.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.440#	-1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.327#	3.0	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.387	-8.2	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.615	-4.1	100	0.00
65 TMP tert-Butylbenzene	1.946	1.956	-0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.967	0.4	100	0.00
67 TMP sec-Butylbenzene	2.396	2.460	-2.7	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.394	0.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.468	0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.460	-0.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.432	-0.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.094	-3.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.980	1.7	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.572	2.7	100	0.00
75 TMP Naphthalene	1.938	1.840	5.1	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.775	1.8	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

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 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	133517	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	109857	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	67912	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	41436	9.742	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.40%
30) 1,2-Dichloroethane-d4	4.45	102	8112	10.176	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	101.80%
35) Toluene-d8	6.10	98	113056	9.420	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	94.20%
57) 4-Bromofluorobenzene	8.51	95	41764	10.149	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	101.50%
Target Compounds						
2) Ethanol	2.33	45	234	No Calib		
4) Dichlorodifluoromethane	1.12	85	13556	1.743	ppb	92
5) Chloromethane	1.26	50	11355	2.204	ppb	94
6] Vinyl chloride	1.34	62	9729m	1.953	ppb	
7) Bromomethane	1.59	94	9797m	1.905	ppb	
8] Chloroethane	1.65	64	5053m	1.894	ppb	
9) Trichlorofluoromethane	1.84	101	26619m	1.963	ppb	
10) 2-Propanol	2.33	45	234	No Calib		
11) Acetone	2.33	58	2922	10.280	ppb #	85
12] 1,1-Dichloroethene	2.27	96	6362m	1.922	ppb	
13) Hexane	3.16	57	6672	2.004	ppb	93
14) Methylene chloride	2.69	84	9051	2.138	ppb	90
15) t-Butyl alcohol (TBA)	2.82	59	3130	10.513	ppb	92
16] Methyl t-butyl ether (...)	2.93	73	16483	2.072	ppb	99
17] trans-1,2-Dichloroethene	2.92	96	7234m	1.975	ppb	
18) Diisopropyl ether (DIPE)	3.35	45	13520	1.898	ppb	93
19] 1,1-Dichloroethane	3.27	63	9195	2.022	ppb	94
20) Ethyl t-butyl ether (E...)	3.66	87	7523	1.962	ppb	95
21) 2,2-Dichloropropane	3.77	77	6935	1.874	ppb	84
22] cis-1,2-Dichloroethene	3.77	96	7885m	1.993	ppb	
23) Chloroform	4.04	83	11516	1.954	ppb	99
24) 2-Butanone (MEK)	3.79	43	14294	9.948	ppb	97
25) t-Amyl methyl ether (T...)	4.61	73	14380	1.956	ppb	98
26] 1,2-Dichloroethane (EDC)	4.53	62	8438	2.060	ppb	93
27] 1,1,1-Trichloroethane	4.19	97	12555	2.010	ppb	96
28) 1,1-Dichloropropene	4.33	75	8531	1.996	ppb	95
29) Carbon tetrachloride	4.33	117	12792	1.927	ppb	97
31] Benzene	4.50	78	22301	2.100	ppb	96
32] Trichloroethene	5.05	95	8651	2.131	ppb	89
33) 1,2-Dichloropropane	5.24	63	4909	2.049	ppb	98
34) Bromodichloromethane	5.48	83	7806	1.848	ppb	98
36) Dibromomethane	5.35	93	4583	1.988	ppb	94

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 Misc : soil/water  
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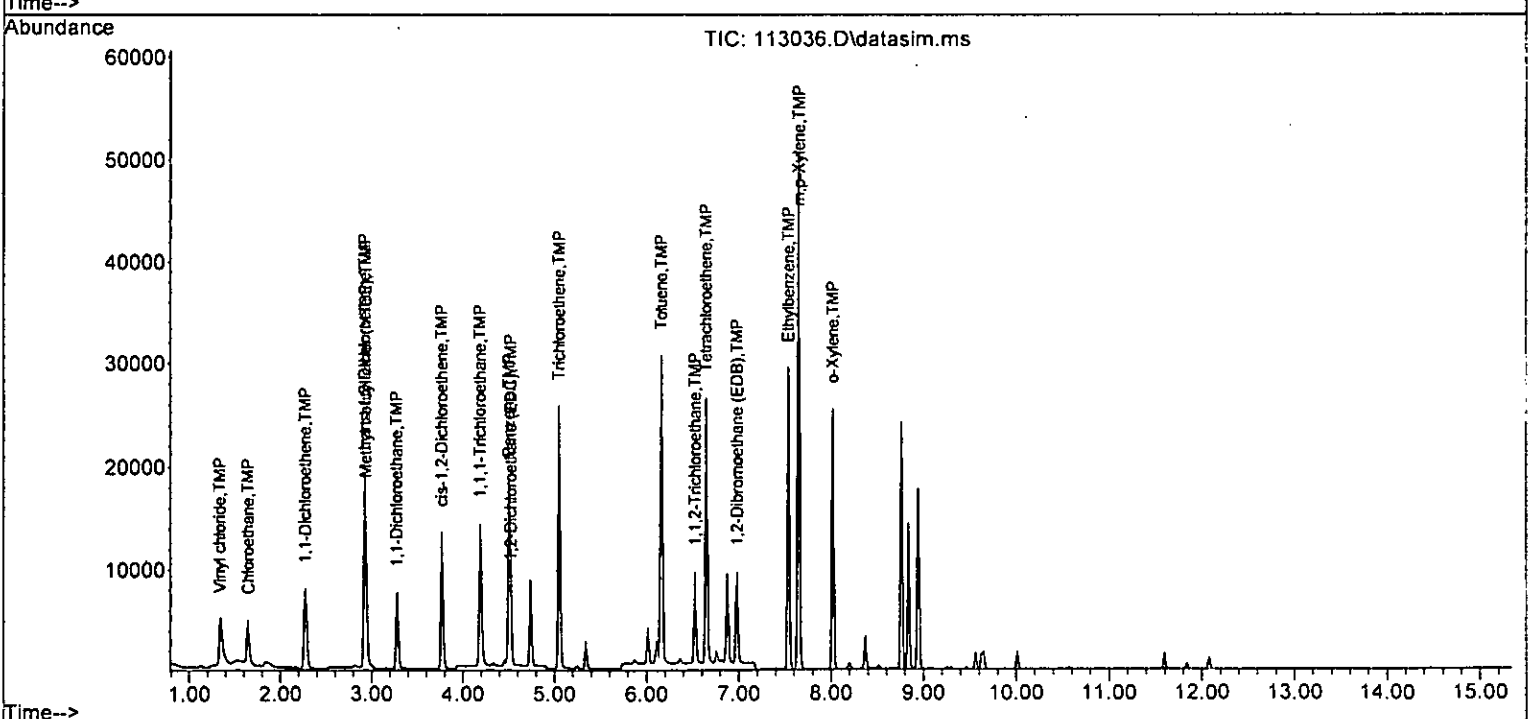
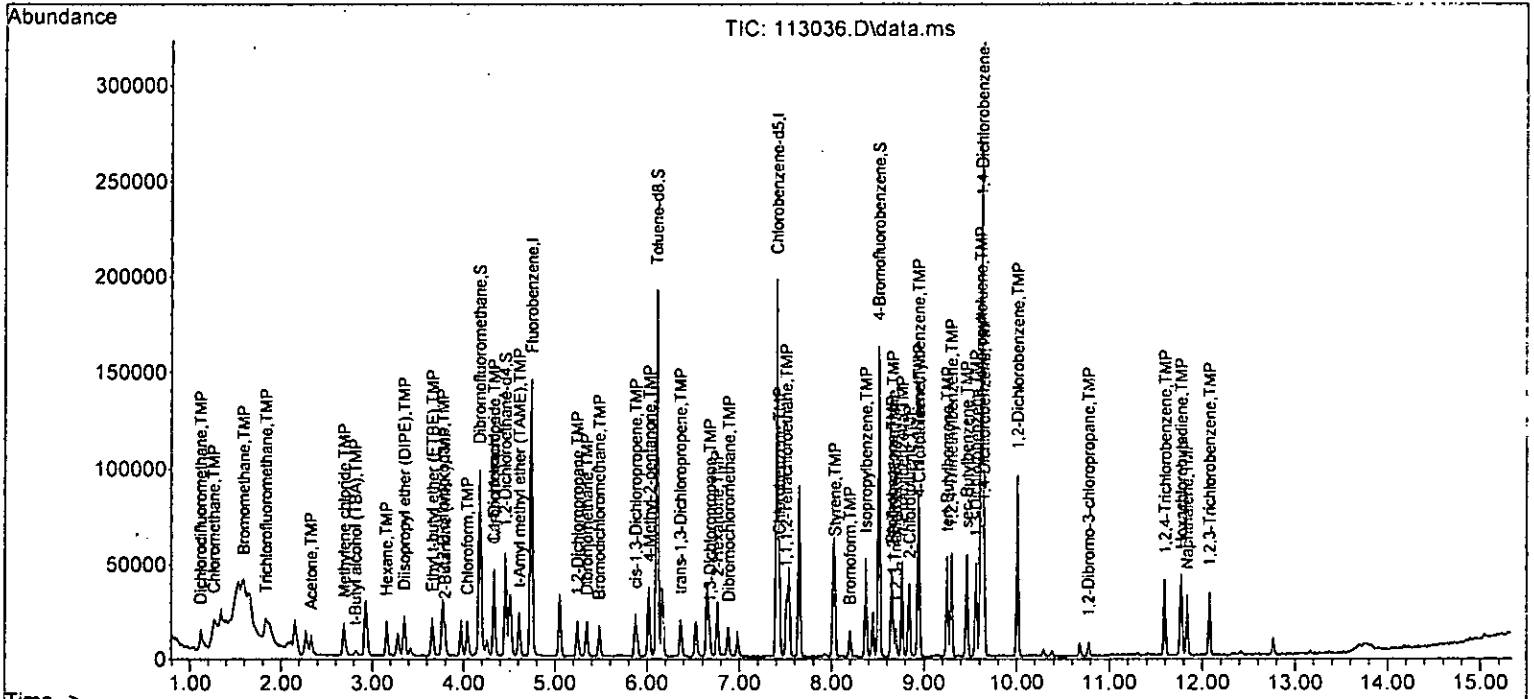
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 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	5470	10.322	ppb	87
38) cis-1,3-Dichloropropene	5.88	75	8617	1.965	ppb	96
40] Toluene	6.16	92	15873	2.073	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	7709	1.972	ppb	95
42] 1,1,2-Trichloroethane	6.53	83	4427	2.054	ppb	96
43) 2-Hexanone	6.76	43	15900	10.227	ppb	95
44) 1,3-Dichloropropane	6.68	76	7580	2.042	ppb	80
45] Tetrachloroethene	6.65	164	9762	2.031	ppb	98
46) Dibromochloromethane	6.88	129	9260	1.982	ppb	94
47] 1,2-Dibromoethane (EDB)	6.98	107	7318	2.114	ppb	90
48) Chlorobenzene	7.43	112	21583	2.083	ppb	97
49] Ethylbenzene	7.54	91	29619	2.133	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.51	131	9163	2.021	ppb	95
51] m,p-Xylene	7.65	106	26305	4.291	ppb	98
52] o-Xylene	8.02	106	12762	2.109	ppb	97
53) Styrene	8.03	104	19015	2.040	ppb	97
54) Isopropylbenzene	8.37	105	31174	2.097	ppb	100
55) Bromoform	8.20	173	6242	1.879	ppb	91
58) n-Propylbenzene	8.77	91	31383	2.047	ppb	99
59) Bromobenzene	8.65	156	11292	2.025	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	25378	2.036	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.66	83	5982	2.046	ppb	97
62) 1,2,3-Trichloropropane	8.70	75	4447	1.941	ppb	99
63) 2-Chlorotoluene	8.84	91	18834	2.162	ppb	97
64) 4-Chlorotoluene	8.95	91	21942	2.082	ppb	96
65) tert-Butylbenzene	9.25	119	26570	2.010	ppb	97
66) 1,2,4-Trimethylbenzene	9.30	105	26720	1.992	ppb	99
67) sec-Butylbenzene	9.46	105	33417	2.054	ppb	99
68) p-Isopropyltoluene	9.61	119	32521	1.996	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	19939	1.989	ppb	97
70) 1,4-Dichlorobenzene	9.64	146	19824	2.005	ppb	97
71) 1,2-Dichlorobenzene	10.01	146	19446	2.014	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	1276	2.075	ppb #	64
73) 1,2,4-Trichlorobenzene	11.60	180	13316	1.966	ppb	97
74) Hexachlorobutadiene	11.77	225	7765	1.946	ppb	94
75) Naphthalene	11.83	128	24992	1.899	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	10532	1.965	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

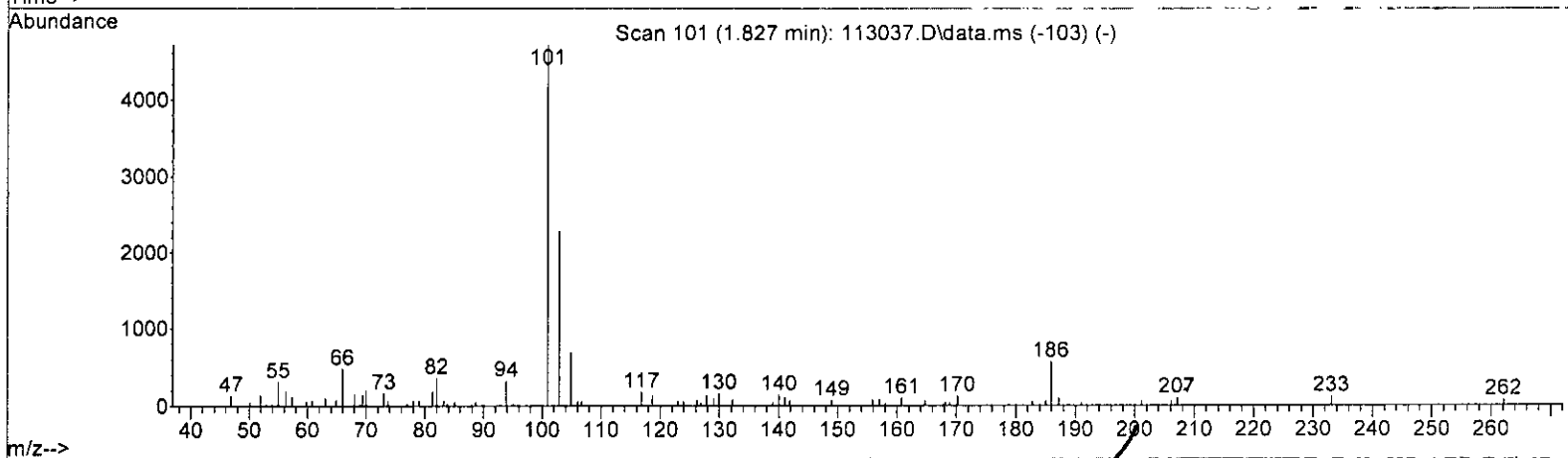
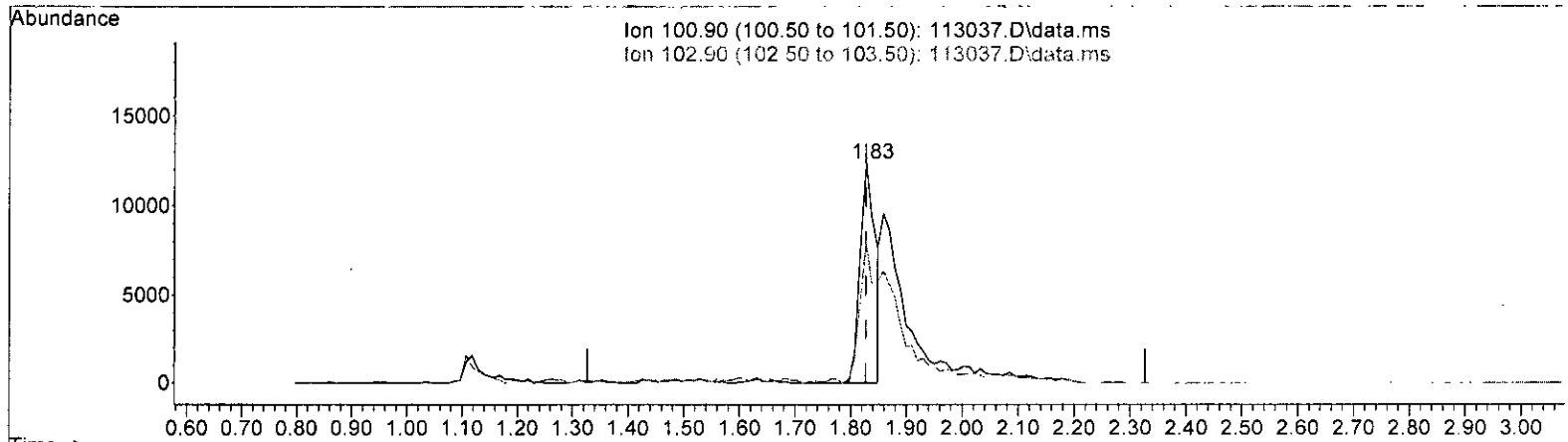




Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113037.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.827min (+ 0.000) 1.804 ppb

response 23781

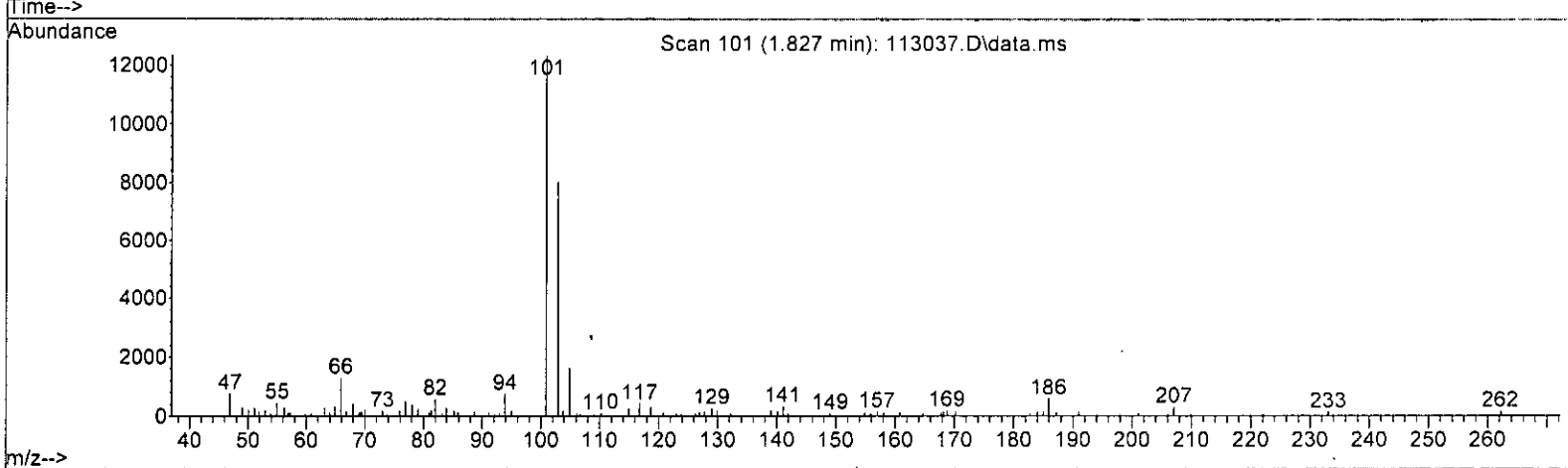
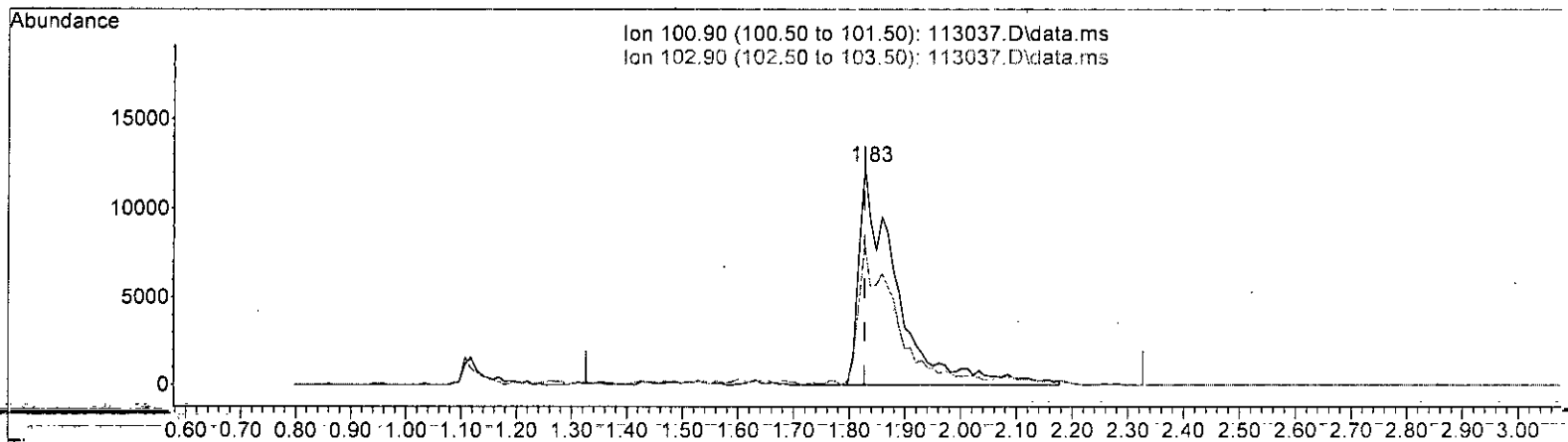
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	67.50	64.84
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113037.D\data.ms

(9) Trichlorofluoromethane (TMP)		
1.827min (+ 0.000)	4.544 ppb m	
response	59909	
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	67.50	64.84
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.1*

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	129854	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.41	117	107689	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	65984	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.18	113	39511	9.551	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	95.50%	
30) 1,2-Dichloroethane-d4	4.45	102	7603	9.806	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	98.10%	
35) Toluene-d8	6.11	98	115607	9.904	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	99.00%	
57) 4-Bromofluorobenzene	8.51	95	38845	9.715	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	97.20%	
Target Compounds							
2) Ethanol	2.33	45	184	No Calib			Qvalue
4) Dichlorodifluoromethane	1.12	85	32172	4.254	ppb		96
5) Chloromethane	1.25	50	23150	4.620	ppb		94
6] Vinyl chloride	1.34	62	23945	4.941	ppb		95
7) Bromomethane	1.58	94	26145	5.228	ppb		98
8] Chloroethane	1.64	64	12396	4.778	ppb		95
9) Trichlorofluoromethane	1.83	101	59909m	4.544	ppb		
10) 2-Propanol	2.33	45	184	No Calib	#		
11) Acetone	2.32	58	6091	19.857	ppb		88
12] 1,1-Dichloroethene	2.27	96	15882	4.933	ppb		90
13) Hexane	3.16	57	13879	4.510	ppb		98
14) Methylene chloride	2.68	84	16694	4.684	ppb		97
15) t-Butyl alcohol (TBA)	2.82	59	6604	22.808	ppb		97
16] Methyl t-butyl ether (...)	2.93	73	37520	4.850	ppb		96
17] trans-1,2-Dichloroethene	2.91	96	17151	4.814	ppb		95
18) Diisopropyl ether (DIPE)	3.35	45	31578	4.558	ppb		97
19] 1,1-Dichloroethane	3.27	63	20992	4.746	ppb		98
20) Ethyl t-butyl ether (E...)	3.65	87	18031	4.835	ppb		96
21) 2,2-Dichloropropane	3.76	77	14318	4.325	ppb		98
22] cis-1,2-Dichloroethene	3.77	96	18981	4.934	ppb		97
23) Chloroform	4.04	83	26201	4.570	ppb		97
24) 2-Butanone (MEK)	3.80	43	28257	19.631	ppb		95
25) t-Amyl methyl ether (T...)	4.61	73	33880	4.738	ppb		98
26] 1,2-Dichloroethane (EDC)	4.52	62	19511	4.923	ppb		99
27] 1,1,1-Trichloroethane	4.19	97	28955	4.766	ppb		98
28) 1,1-Dichloropropene	4.33	75	19402	4.668	ppb		98
29) Carbon tetrachloride	4.33	117	28979	4.490	ppb		96
31] Benzene	4.50	78	51552	5.011	ppb		99
32] Trichloroethene	5.05	95	18129	4.591	ppb		97
33) 1,2-Dichloropropane	5.24	63	10977	4.949	ppb		99
34) Bromodichloromethane	5.48	83	18815	4.580	ppb		93
36) Dibromomethane	5.35	93	10591	4.723	ppb	#	81

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

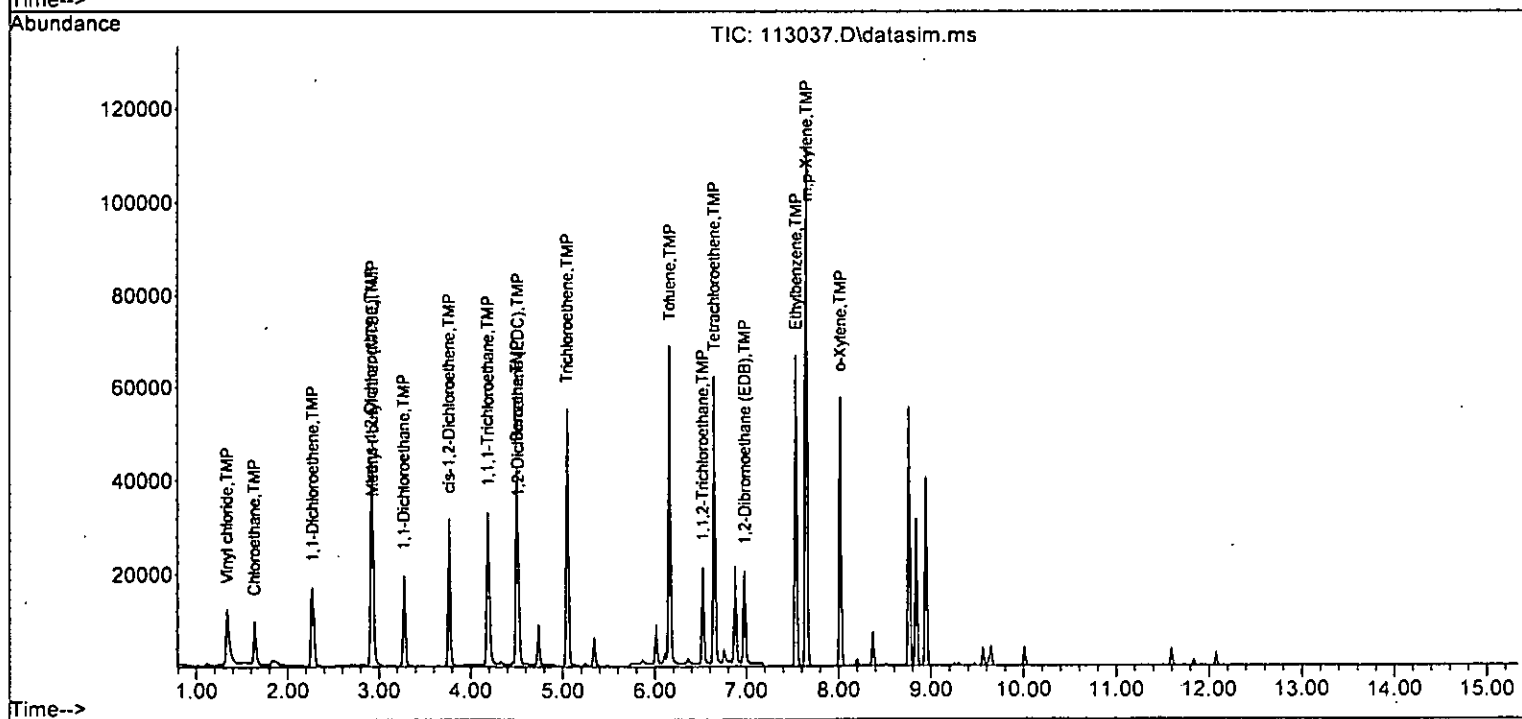
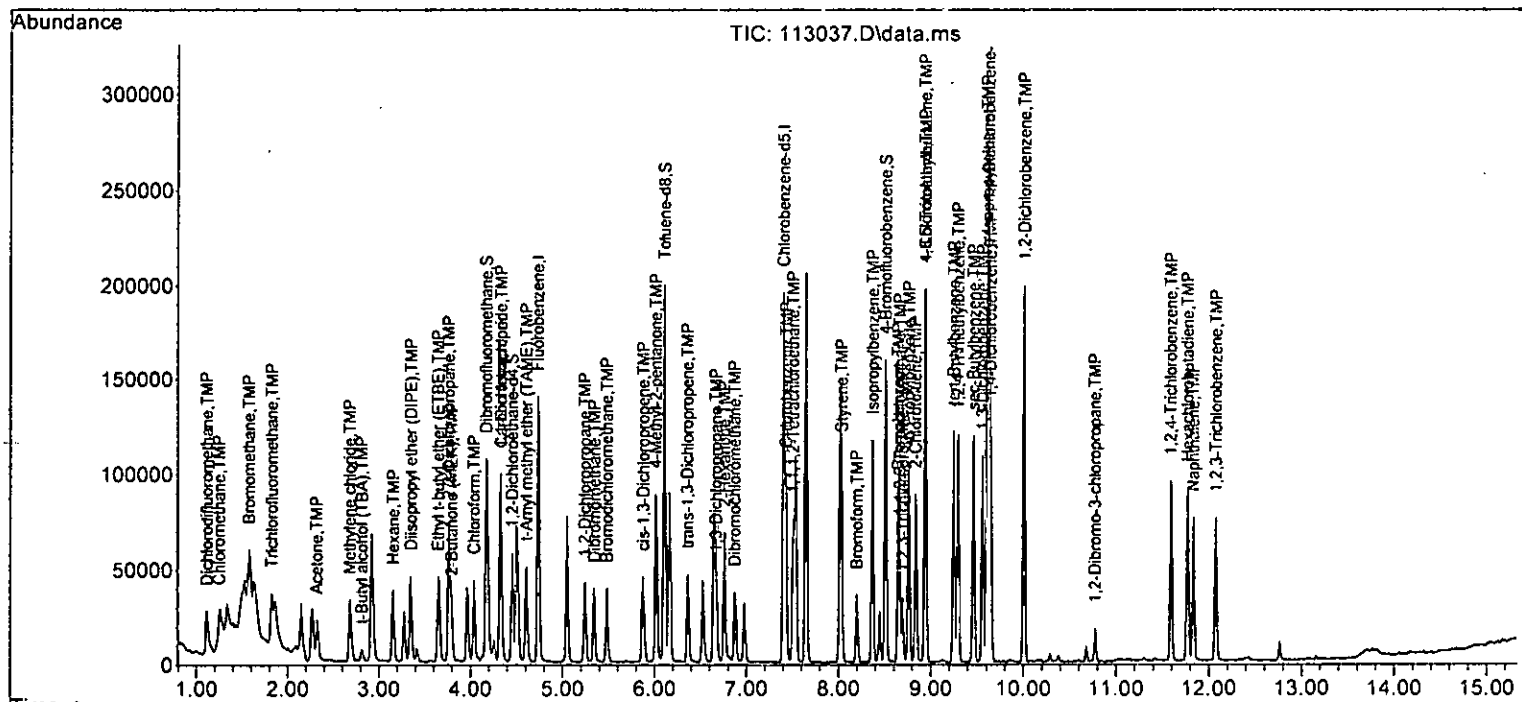
Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	12011	23.304	ppb	91
38) cis-1,3-Dichloropropene	5.88	75	19613	4.598	ppb	99
40] Toluene	6.16	92	36804	4.912	ppb	100
41) trans-1,3-Dichloropropene	6.36	75	18328	4.784	ppb	96
42] 1,1,2-Trichloroethane	6.53	83	10262	4.867	ppb	99
43) 2-Hexanone	6.76	43	38235	25.087	ppb	98
44) 1,3-Dichloropropane	6.67	76	17532	4.817	ppb	96
45] Tetrachloroethene	6.65	164	22250	4.738	ppb	99
46) Dibromochloromethane	6.87	129	21811	4.763	ppb	98
47] 1,2-Dibromoethane (EDB)	6.98	107	17032	5.038	ppb	88
48) Chlorobenzene	7.43	112	47426	4.670	ppb	98
49] Ethylbenzene	7.54	91	67881	5.054	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	20556	4.625	ppb	97
51] m,p-Xylene	7.65	106	59630	10.084	ppb	99
52] o-Xylene	8.02	106	29108	4.938	ppb	98
53) Styrene	8.03	104	44342	4.853	ppb	98
54) Isopropylbenzene	8.37	105	68614	4.709	ppb	96
55) Bromoform	8.20	173	15332	4.708	ppb	94
58) n-Propylbenzene	8.77	91	71579	4.806	ppb	99
59) Bromobenzene	8.65	156	25481	4.702	ppb	99
60) 1,3,5-Trimethylbenzene	8.94	105	57753	4.768	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.66	83	14434	5.102	ppb	97
62) 1,2,3-Trichloropropane	8.70	75	10256	4.607	ppb	96
63) 2-Chlorotoluene	8.84	91	41767	4.936	ppb	96
64) 4-Chlorotoluene	8.94	91	48910	4.776	ppb	89
65) tert-Butylbenzene	9.25	119	59123	4.604	ppb	98
66) 1,2,4-Trimethylbenzene	9.30	105	59952	4.600	ppb	99
67) sec-Butylbenzene	9.46	105	74302	4.700	ppb	97
68) p-Isopropyltoluene	9.61	119	74100	4.680	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	46158	4.739	ppb	98
70) 1,4-Dichlorobenzene	9.64	146	46132	4.803	ppb	93
71) 1,2-Dichlorobenzene	10.01	146	43108	4.594	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.77	75	3066	5.131	ppb	86
73) 1,2,4-Trichlorobenzene	11.59	180	30451	4.628	ppb	99
74) Hexachlorobutadiene	11.77	225	17476	4.507	ppb	100
75) Naphthalene	11.83	128	58358	4.563	ppb	95
76) 1,2,3-Trichlorobenzene	12.08	180	23400	4.493	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	9.551	4.5	100	0.00
4 TMP Dichlorodifluoromethane	5.000	4.254	14.9	95	0.01
5 TMP Chloromethane	5.000	4.620	7.6	100	0.00
6 TMP Vinyl chloride	5.000	4.941	1.2	103	0.01
7 TMP Bromomethane	5.000	5.228	-4.6	94	0.01
8 TMP Chloroethane	5.000	4.778	4.4	105	0.00
9 TMP Trichlorofluoromethane	5.000	4.544	9.1	101	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	25.000	19.857	20.6#	100	0.00
12 TMP 1,1-Dichloroethene	5.000	4.933	1.3	109	0.01
13 TMP Hexane	5.000	4.510	9.8	100	0.00
14 TMP Methylene chloride	5.000	4.684	6.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	25.000	22.808	8.8	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	5.000	4.850	3.0	100	0.01
17 TMP trans-1,2-Dichloroethene	5.000	4.814	3.7	104	0.00
18 TMP Diisopropyl ether (DIPE)	5.000	4.558	8.8	100	0.01
19 TMP 1,1-Dichloroethane	5.000	4.746	5.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	5.000	4.835	3.3	100	0.00
21 TMP 2,2-Dichloropropane	5.000	4.325	13.5	100	0.00
22 TMP cis-1,2-Dichloroethene	5.000	4.934	1.3	106	0.00
23 TMP Chloroform	5.000	4.570	8.6	100	0.00
24 TMP 2-Butanone (MEK)	25.000	19.631	21.5#	100	0.01
25 TMP t-Amyl methyl ether (TAME)	5.000	4.738	5.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	5.000	4.923	1.5	100	0.00
27 TMP 1,1,1-Trichloroethane	5.000	4.766	4.7	100	0.00
28 TMP 1,1-Dichloropropene	5.000	4.668	6.6	100	0.00
29 TMP Carbon tetrachloride	5.000	4.490	10.2	100	0.00
30 5 1,2-Dichloroethane-d4	10.000	9.806	1.9	100	0.00
31 TMP Benzene	5.000	5.011	-0.2	100	0.00
32 TMP Trichloroethene	5.000	4.591	8.2	100	0.00
33 TMP 1,2-Dichloropropane	5.000	4.949	1.0	100	0.00
34 TMP Bromodichloromethane	5.000	4.580	8.4	100	0.00
35 S Toluene-d8	10.000	9.904	1.0	100	0.00
36 TMP Dibromomethane	5.000	4.723	5.5	100	0.01
37 TMP 4-Methyl-2-pentanone	25.000	23.304	6.8	100	0.00
38 TMP cis-1,3-Dichloropropene	5.000	4.598	8.0	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	5.000	4.912	1.8	100	0.00
41 TMP trans-1,3-Dichloropropene	5.000	4.784	4.3	100	0.00
42 TMP 1,1,2-Trichloroethane	5.000	4.867	2.7	100	0.00
43 TMP 2-Hexanone	25.000	25.087	-0.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	5.000	4.817	3.7	100	0.00
45 TMP Tetrachloroethene	5.000	4.738	5.2	100	0.00
46 TMP Dibromochloromethane	5.000	4.763	4.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	5.000	5.038	-0.8	100	0.01
48 TMP Chlorobenzene	5.000	4.670	6.6	100	0.00
49 TMP Ethylbenzene	5.000	5.054	-1.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	5.000	4.625	7.5	100	0.00
51 TMP m,p-Xylene	10.000	10.084	-0.8	100	0.00
52 TMP o-Xylene	5.000	4.938	1.2	100	0.00
53 TMP Styrene	5.000	4.853	2.9	100	0.00
54 TMP Isopropylbenzene	5.000	4.709	5.8	100	0.00
55 TMP Bromoform	5.000	4.708	5.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.715	2.9	100	0.00
58 TMP n-Propylbenzene	5.000	4.806	3.9	100	0.00
59 TMP Bromobenzene	5.000	4.702	6.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	5.000	4.768	4.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	5.000	5.102	-2.0	100	0.00
62 TMP 1,2,3-Trichloropropane	5.000	4.607	7.9	100	0.00
63 TMP 2-Chlorotoluene	5.000	4.936	1.3	100	0.00
64 TMP 4-Chlorotoluene	5.000	4.776	4.5	100	0.00
65 TMP tert-Butylbenzene	5.000	4.604	7.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	5.000	4.600	8.0	100	0.00
67 TMP sec-Butylbenzene	5.000	4.700	6.0	100	0.00
68 TMP p-Isopropyltoluene	5.000	4.680	6.4	100	0.00
69 TMP 1,3-Dichlorobenzene	5.000	4.739	5.2	100	0.00
70 TMP 1,4-Dichlorobenzene	5.000	4.803	3.9	100	0.00
71 TMP 1,2-Dichlorobenzene	5.000	4.594	8.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	5.000	5.131	-2.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	5.000	4.628	7.4	100	0.00
74 TMP Hexachlorobutadiene	5.000	4.507	9.9	100	0.00
75 TMP Naphthalene	5.000	4.563	8.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	5.000	4.493	10.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

## Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM513\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCM513

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	100	0.00
3 S	Dibromofluoromethane	0.319	0.304	4.7	100	0.00
4 TMP	Dichlorodifluoromethane	0.582	0.496	14.8	95	0.01
5 TMP	Chloromethane	0.386	0.357	7.5	100	0.00
6 TMP	Vinyl chloride	0.373	0.369	1.1	103	0.01
7 TMP	Bromomethane	0.385	0.403	-4.7	94	0.01
8 TMP	Chloroethane	0.200	0.191	4.5	105	0.00
9 TMP	Trichlorofluoromethane	1.015	0.923	9.1	101	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.022	0.019	13.6	100	0.00
12 TMP	1,1-Dichloroethene	0.248	0.245	1.2	109	0.01
13 TMP	Hexane	0.236	0.214	9.3	100	0.00
14 TMP	Methylene chloride	0.247	0.257	-4.0	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.022	0.020#	9.1	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	0.596	0.578	3.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.274	0.264	3.6	104	0.00
18 TMP	Diisopropyl ether (DIPE)	0.533	0.486#	8.8	100	0.01
19 TMP	1,1-Dichloroethane	0.341	0.323	5.3	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.287	0.278	3.1	100	0.00
21 TMP	2,2-Dichloropropane	0.297	0.221	25.6#	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.296	0.292	1.4	106	0.00
23 TMP	Chloroform	0.441	0.404	8.4	100	0.00
24 TMP	2-Butanone (MEK)	0.102	0.087	14.7	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.551	0.522	5.3	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.334	0.301	9.9	100	0.00
27 TMP	1,1,1-Trichloroethane	0.468	0.446	4.7	100	0.00
28 TMP	1,1-Dichloropropene	0.320	0.299	6.6	100	0.00
29 TMP	Carbon tetrachloride	0.497	0.446	10.3	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.059	1.7	100	0.00
31 TMP	Benzene	0.849	0.794	6.5	100	0.00
32 TMP	Trichloroethene	0.304	0.279	8.2	100	0.00
33 TMP	1,2-Dichloropropane	0.189	0.169	10.6	100	0.00
34 TMP	Bromodichloromethane	0.316	0.290	8.2	100	0.00
35 S	Toluene-d8	0.899	0.890	1.0	100	0.00
36 TMP	Dibromomethane	0.173	0.163	5.8	100	0.01
37 TMP	4-Methyl-2-pentanone	0.040	0.037	7.5	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.329	0.302	8.2	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.719	0.684	4.9	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.356	0.340	4.5	100	0.00
42 TMP	1,1,2-Trichloroethane	0.204	0.191	6.4	100	0.00
43 TMP	2-Hexanone	0.142	0.142	0.0	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.326	3.6	100	0.00
45 TMP Tetrachloroethene	0.443	0.413	6.8	100	0.00
46 TMP Dibromochloromethane	0.425	0.405	4.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.316	5.7	100	0.01
48 TMP Chlorobenzene	0.943	0.881	6.6	100	0.00
49 TMP Ethylbenzene	1.560	1.261	19.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.382	7.5	100	0.00
51 TMP m,p-Xylene	0.718	0.554	22.8#	100	0.00
52 TMP o-Xylene	0.611	0.541	11.5	100	0.00
53 TMP Styrene	0.848	0.824	2.8	100	0.00
54 TMP Isopropylbenzene	1.353	1.274	5.8	100	0.00
55 TMP Bromoform	0.302	0.285	5.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.589	2.8	100	0.00
58 TMP n-Propylbenzene	2.257	2.170	3.9	100	0.00
59 TMP Bromobenzene	0.821	0.772	6.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.751	4.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.438#	-1.2	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.311#	7.7	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.266	1.2	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.482	4.5	100	0.00
65 TMP tert-Butylbenzene	1.946	1.792	7.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.817	8.0	100	0.00
67 TMP sec-Butylbenzene	2.396	2.252	6.0	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.246	6.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.399	5.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.398	4.0	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.307	8.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.093	-2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.923	7.4	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.530	9.9	100	0.00
75 TMP Naphthalene	1.938	1.769	8.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.709	10.1	100	0.00

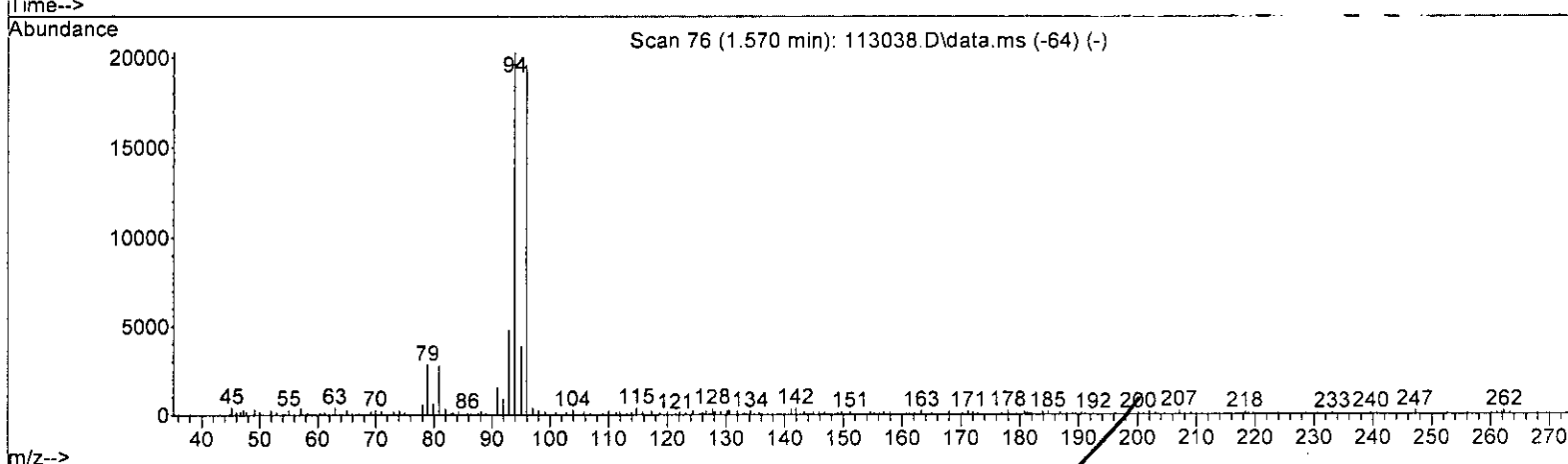
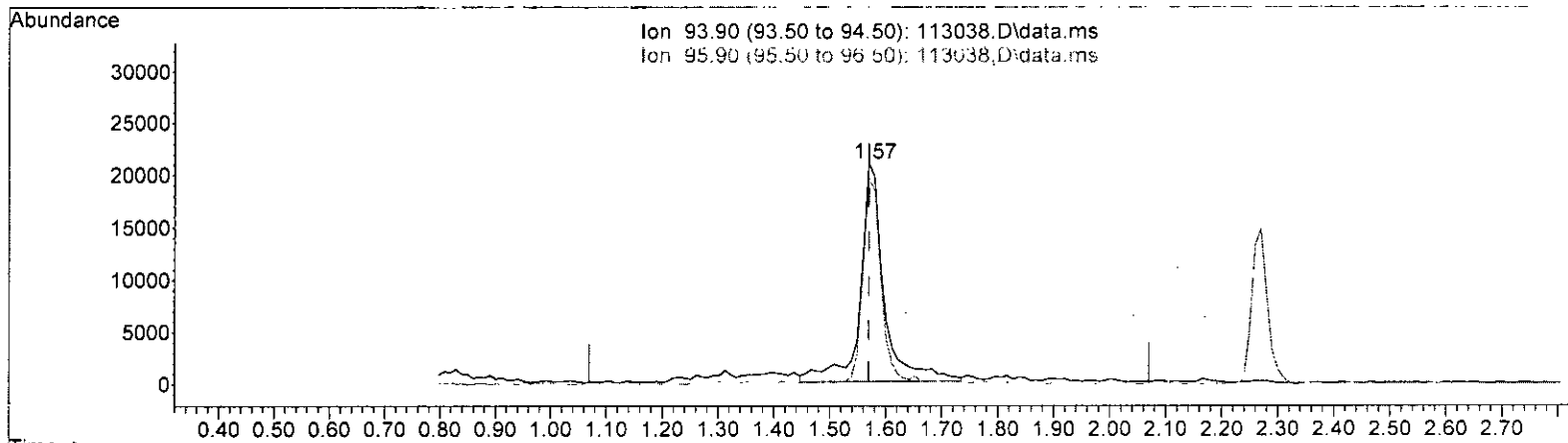
(#) = Out of Range

SPCC's out = 5 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



TIC: 113038.D\data.ms

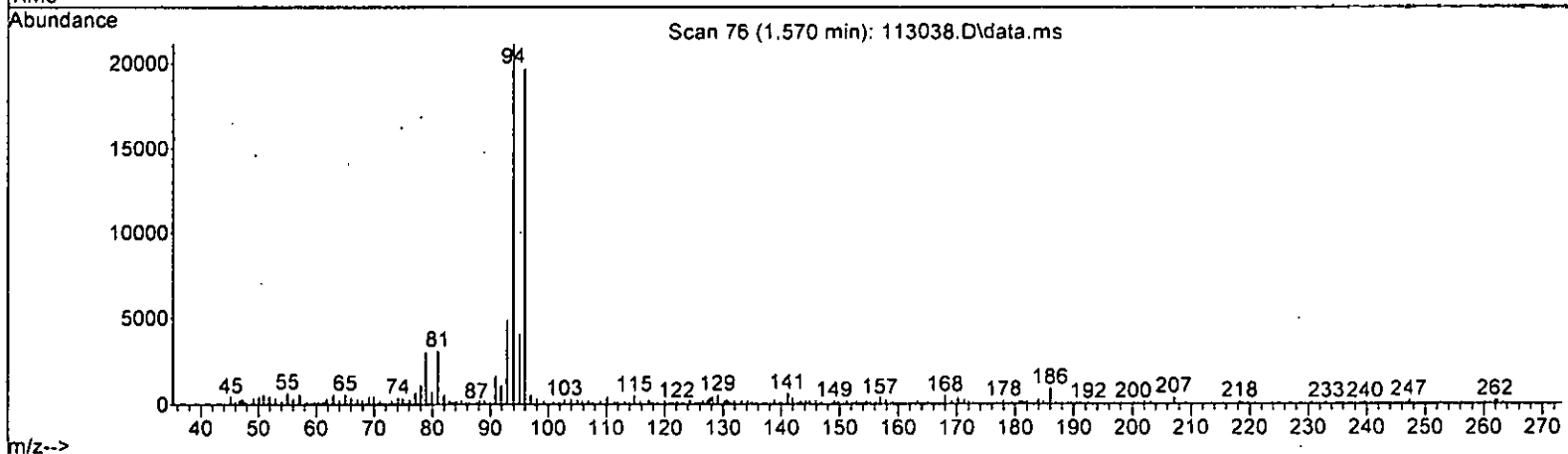
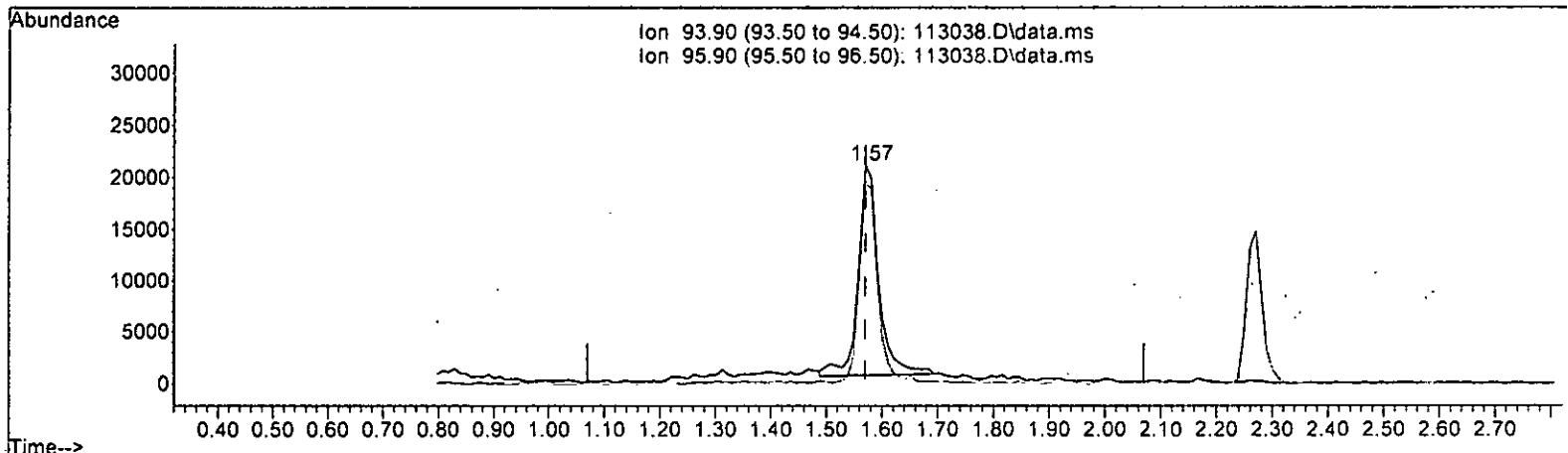
*LM 12.1*

(7) Bromomethane (TMP)		
1.570min (-0.000) 14.071 ppb		
response	62487	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	93.10	95.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113038.D\data.ms

(7) Bromomethane (TMP) LM 12.1

1.570min (-0.000) 11.664 ppb m

response	51800
Ion	Exp% Act%
93.90	100.00 100.00
95.90	93.10 93.07
0.00	0.00 0.00
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	115315	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	105054	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	65344	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.18	113	38323	10.432	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	104.30%
30) 1,2-Dichloroethane-d4	4.45	102	7093	10.302	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	103.00%
35) Toluene-d8	6.11	98	109418	10.556	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	105.60%
57) 4-Bromofluorobenzene	8.51	95	39719	10.031	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	100.30%
Target Compounds						
2) Ethanol	2.33	45	419	No Calib		Qvalue
4) Dichlorodifluoromethane	1.11	85	69482	10.345	ppb	100
5) Chloromethane	1.25	50	46218	10.386	ppb	100
6] Vinyl chloride	1.33	62	50060	11.633	ppb	99
7) Bromomethane	1.57	94	51800m	11.664	ppb	
8] Chloroethane	1.64	64	25265	10.966	ppb	95
9) Trichlorofluoromethane	1.83	101	123433	10.542	ppb	100
10) 2-Propanol	2.33	45	419	No Calib		
11) Acetone	2.32	58	13525	47.079	ppb	100
12] 1,1-Dichloroethene	2.26	96	31295	10.947	ppb	100
13) Hexane	3.16	57	28725	10.771	ppb	100
14) Methylene chloride	2.68	84	29624	10.091	ppb	100
15) t-Butyl alcohol (TBA)	2.81	59	13104	50.962	ppb	100
16] Methyl t-butyl ether (...)	2.92	73	74899	10.903	ppb	100
17] trans-1,2-Dichloroethene	2.91	96	34163	10.797	ppb	100
18) Diisopropyl ether (DIPE)	3.34	45	70404	11.444	ppb	100
19] 1,1-Dichloroethane	3.27	63	44407	11.305	ppb	100
20) Ethyl t-butyl ether (E...)	3.65	87	34900	10.539	ppb	100
21) 2,2-Dichloropropane	3.76	77	30998	10.987	ppb	100
22] cis-1,2-Dichloroethene	3.77	96	37747	11.049	ppb	100
23) Chloroform	4.04	83	53228	10.455	ppb	100
24) 2-Butanone (MEK)	3.78	43	63901	49.387	ppb	100
25) t-Amyl methyl ether (T...)	4.61	73	68049	10.716	ppb	100
26] 1,2-Dichloroethane (EDC)	4.52	62	38861	11.065	ppb	100
27] 1,1,1-Trichloroethane	4.19	97	58981	10.932	ppb	100
28) 1,1-Dichloropropene	4.33	75	38127	10.329	ppb	100
29) Carbon tetrachloride	4.33	117	58288	10.169	ppb	100
31] Benzene	4.50	78	103415	11.337	ppb	100
32] Trichloroethene	5.05	95	39237	11.190	ppb	100
33) 1,2-Dichloropropane	5.24	63	21732	11.259	ppb	100
34) Bromodichloromethane	5.48	83	38161	10.459	ppb	100
36) Dibromomethane	5.34	93	21279	10.686	ppb	100

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

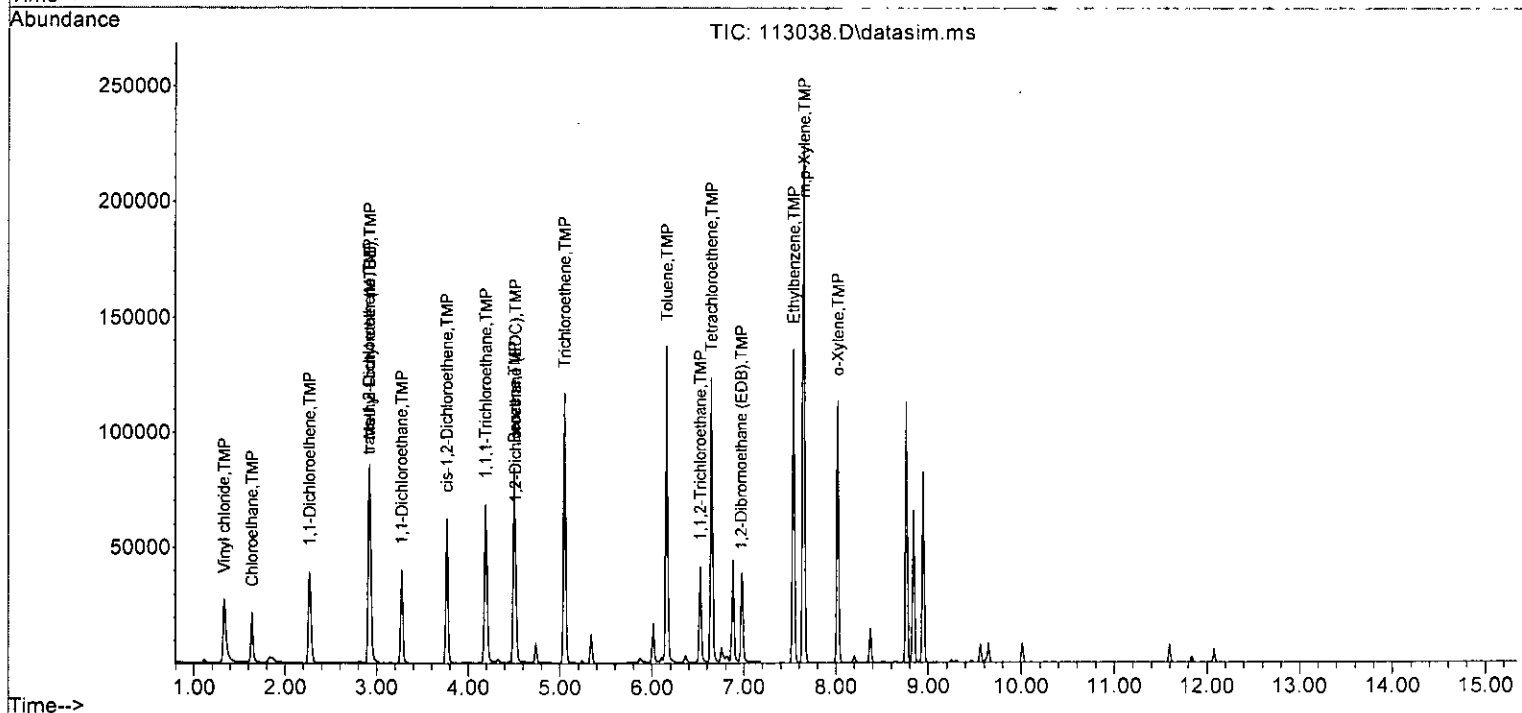
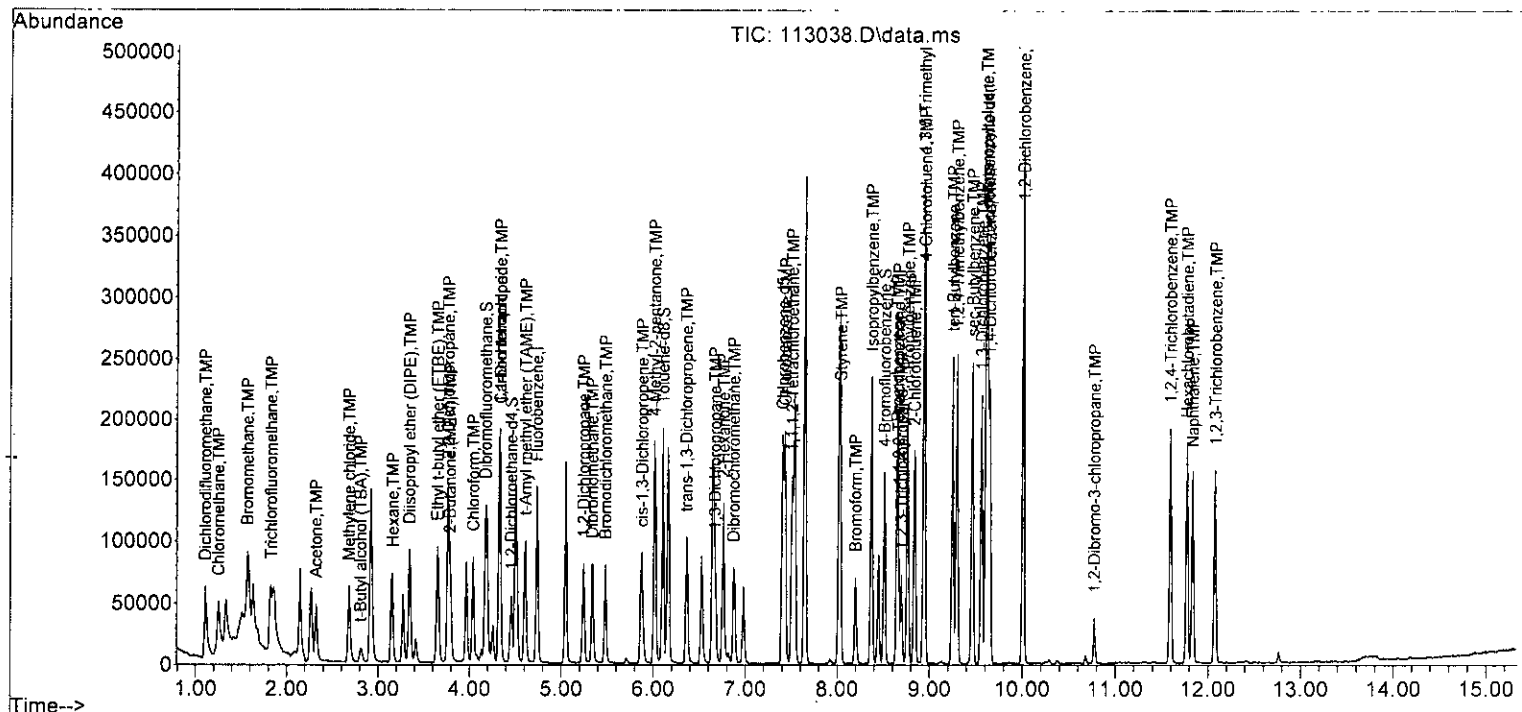
Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	23794	51.987	ppb	100
38) cis-1,3-Dichloropropene	5.88	75	38733	10.225	ppb	100
40] Toluene	6.16	92	73772	10.099	ppb	100
41) trans-1,3-Dichloropropene	6.36	75	36112	9.662	ppb	100
42] 1,1,2-Trichloroethane	6.53	83	20912	10.176	ppb	100
43) 2-Hexanone	6.76	43	73083	49.155	ppb	100
44) 1,3-Dichloropropane	6.67	76	35746	10.068	ppb	100
45] Tetrachloroethene	6.65	164	44699	9.785	ppb	100
46) Dibromochloromethane	6.87	129	44422	9.945	ppb	100
47] 1,2-Dibromoethane (EDB)	6.97	107	34508	10.477	ppb	100
48) Chlorobenzene	7.43	112	98737	9.966	ppb	100
49] Ethylbenzene	7.54	91	136665	10.483	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	42524	9.808	ppb	100
51] m,p-Xylene	7.65	106	119397	20.826	ppb	100
52] o-Xylene	8.02	106	58623	10.219	ppb	100
53) Styrene	8.03	104	88055	9.879	ppb	100
54) Isopropylbenzene	8.37	105	141249	9.936	ppb	100
55) Bromoform	8.20	173	31165	9.810	ppb	100
58) n-Propylbenzene	8.77	91	144942	9.826	ppb	100
59) Bromobenzene	8.65	156	52837	9.846	ppb	100
60) 1,3,5-Trimethylbenzene	8.94	105	116069	9.676	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.66	83	27281	9.751	ppb	100
62) 1,2,3-Trichloropropane	8.70	75	22181	10.061	ppb	99
63) 2-Chlorotoluene	8.84	91	82958	9.899	ppb	100
64) 4-Chlorotoluene	8.95	91	101169	9.976	ppb	100
65) tert-Butylbenzene	9.25	119	124244	9.770	ppb	100
66) 1,2,4-Trimethylbenzene	9.30	105	122955	9.527	ppb	100
67) sec-Butylbenzene	9.46	105	153843	9.827	ppb	100
68) p-Isopropyltoluene	9.61	119	152952	9.754	ppb	100
69) 1,3-Dichlorobenzene	9.56	146	94615	9.809	ppb	100
70) 1,4-Dichlorobenzene	9.64	146	93635	9.844	ppb	100
71) 1,2-Dichlorobenzene	10.01	146	89525	9.635	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.77	75	5497	9.289	ppb	100
73) 1,2,4-Trichlorobenzene	11.59	180	64018	9.824	ppb	100
74) Hexachlorobutadiene	11.77	225	36528	9.513	ppb	100
75) Naphthalene	11.83	128	121672	9.606	ppb	100
76) 1,2,3-Trichlorobenzene	12.08	180	48968	9.495	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	10.432	-4.3	100	0.00
4 TMP Dichlorodifluoromethane	10.000	10.345	-3.5	100	0.00
5 TMP Chloromethane	10.000	10.386	-3.9	100	0.00
6 TMP Vinyl chloride	10.000	11.633	-16.3	100	0.00
7 TMP Bromomethane	10.000	11.664	-16.6	103	0.00
8 TMP Chloroethane	10.000	10.966	-9.7	100	0.00
9 TMP Trichlorofluoromethane	10.000	10.542	-5.4	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	47.079	5.8	100	0.00
12 TMP 1,1-Dichloroethene	10.000	10.947	-9.5	100	0.00
13 TMP Hexane	10.000	10.771	-7.7	100	0.00
14 TMP Methylene chloride	10.000	10.091	-0.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	50.962	-1.9	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.903	-9.0	100	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.797	-8.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	11.444	-14.4	100	0.00
19 TMP 1,1-Dichloroethane	10.000	11.305	-13.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.539	-5.4	100	0.00
21 TMP 2,2-Dichloropropane	10.000	10.987	-9.9	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	11.049	-10.5	100	0.00
23 TMP Chloroform	10.000	10.455	-4.6	100	0.00
24 TMP 2-Butanone (MEK)	50.000	49.387	1.2	100	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	10.716	-7.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	11.065	-10.6	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.932	-9.3	100	0.00
28 TMP 1,1-Dichloropropene	10.000	10.329	-3.3	100	0.00
29 TMP Carbon tetrachloride	10.000	10.169	-1.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.302	-3.0	100	0.00
31 TMP Benzene	10.000	11.337	-13.4	100	0.00
32 TMP Trichloroethene	10.000	11.190	-11.9	100	0.00
33 TMP 1,2-Dichloropropane	10.000	11.259	-12.6	100	0.00
34 TMP Bromodichloromethane	10.000	10.459	-4.6	100	0.00
35 S Toluene-d8	10.000	10.556	-5.6	100	0.00
36 TMP Dibromomethane	10.000	10.686	-6.9	100	0.00
37 TMP 4-Methyl-2-pentanone	50.000	51.987	-4.0	100	0.00
38 TMP cis-1,3-Dichloropropene	10.000	10.225	-2.2	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	10.000	10.099	-1.0	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.662	3.4	100	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.176	-1.8	100	0.00
43 TMP 2-Hexanone	50.000	49.155	1.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.068	-0.7	100	0.00
45 TMP Tetrachloroethene	10.000	9.785	2.1	100	0.00
46 TMP Dibromochloromethane	10.000	9.945	0.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.477	-4.8	100	0.00
48 TMP Chlorobenzene	10.000	9.966	0.3	100	0.00
49 TMP Ethylbenzene	10.000	10.483	-4.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.808	1.9	100	0.00
51 TMP m,p-Xylene	20.000	20.826	-4.1	100	0.00
52 TMP o-Xylene	10.000	10.219	-2.2	100	0.00
53 TMP Styrene	10.000	9.879	1.2	100	0.00
54 TMP Isopropylbenzene	10.000	9.936	0.6	100	0.00
55 TMP Bromoform	10.000	9.810	1.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.031	-0.3	100	0.00
58 TMP n-Propylbenzene	10.000	9.826	1.7	100	0.00
59 TMP Bromobenzene	10.000	9.846	1.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.676	3.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.751	2.5	100	0.00
62 TMP 1,2,3-Trichloropropane	10.000	10.061	-0.6	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.899	1.0	100	0.00
64 TMP 4-Chlorotoluene	10.000	9.976	0.2	100	0.00
65 TMP tert-Butylbenzene	10.000	9.770	2.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.527	4.7	100	0.00
67 TMP sec-Butylbenzene	10.000	9.827	1.7	100	0.00
68 TMP p-Isopropyltoluene	10.000	9.754	2.5	100	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.809	1.9	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.844	1.6	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.635	3.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.289	7.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.824	1.8	100	0.00
74 TMP Hexachlorobutadiene	10.000	9.513	4.9	100	0.00
75 TMP Naphthalene	10.000	9.606	3.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.495	5.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.332	-4.1	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.603	-3.6	100	0.00
5 TMP Chloromethane	0.386	0.401	-3.9	100	0.00
6 TMP Vinyl chloride	0.373	0.434	-16.4	100	0.00
7 TMP Bromomethane	0.385	0.449	-16.6	103	0.00
8 TMP Chloroethane	0.200	0.219	-9.5	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.070	-5.4	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.023	-4.5	100	0.00
12 TMP 1,1-Dichloroethene	0.248	0.271	-9.3	100	0.00
13 TMP Hexane	0.236	0.249	-5.5	100	0.00
14 TMP Methylene chloride	0.247	0.257	-4.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.023#	-4.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.650	-9.1	100	0.00
17 TMP trans-1,2-Dichloroethene	0.274	0.296	-8.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.533	0.611	-14.6	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.385	-12.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.303	-5.6	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.269	9.4	100	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.327	-10.5	100	0.00
23 TMP Chloroform	0.441	0.462	-4.8	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.111	-8.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.551	0.590	-7.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.337	-0.9	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.511	-9.2	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.331	-3.4	100	0.00
29 TMP Carbon tetrachloride	0.497	0.505	-1.6	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.849	0.897	-5.7	100	0.00
32 TMP Trichloroethene	0.304	0.340	-11.8	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.188	0.5	100	0.00
34 TMP Bromodichloromethane	0.316	0.331	-4.7	100	0.00
35 S Toluene-d8	0.899	0.949	-5.6	100	0.00
36 TMP Dibromomethane	0.173	0.185	-6.9	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.041	-2.5	100	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.336	-2.1	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.702	2.4	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.344	3.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.199	2.5	100	0.00
43 TMP 2-Hexanone	0.142	0.139	2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.340	-0.6	100	0.00
45 TMP Tetrachloroethene	0.443	0.425	4.1	100	0.00
46 TMP Dibromochloromethane	0.425	0.423	0.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.328	2.1	100	0.00
48 TMP Chlorobenzene	0.943	0.940	0.3	100	0.00
49 TMP Ethylbenzene	1.560	1.301	16.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.405	1.9	100	0.00
51 TMP m,p-Xylene	0.718	0.568	20.9#	100	0.00
52 TMP o-Xylene	0.611	0.558	8.7	100	0.00
53 TMP Styrene	0.848	0.838	1.2	100	0.00
54 TMP Isopropylbenzene	1.353	1.345	0.6	100	0.00
55 TMP Bromoform	0.302	0.297	1.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.608	-0.3	100	0.00
58 TMP n-Propylbenzene	2.257	2.218	1.7	100	0.00
59 TMP Bromobenzene	0.821	0.809	1.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.776	3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.417#	3.7	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.339#	-0.6	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.270	0.9	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.548	0.3	100	0.00
65 TMP tert-Butylbenzene	1.946	1.901	2.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.882	4.7	100	0.00
67 TMP sec-Butylbenzene	2.396	2.354	1.8	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.341	2.5	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.448	1.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.433	1.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.370	3.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.084	7.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.980	1.7	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.559	4.9	100	0.00
75 TMP Naphthalene	1.938	1.862	3.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.749	5.1	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	113852	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	103353	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	63199	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	38224	10.539	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	105.40%
30) 1,2-Dichloroethane-d4	4.45	102	7062	10.389	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	103.90%
35) Toluene-d8	6.11	98	108614	10.613	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	106.10%
57) 4-Bromofluorobenzene	8.51	95	38357	10.016	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	100.20%
Target Compounds						
2) Ethanol	2.33	45	717	No Calib		Qvalue
4) Dichlorodifluoromethane	1.12	85	135832	20.484	ppb	93
5) Chloromethane	1.26	50	84851	19.313	ppb	99
6] Vinyl chloride	1.35	62	92646	21.806	ppb	94
7) Bromomethane	1.59	94	95673	21.820	ppb	100
8] Chloroethane	1.65	64	47223	20.760	ppb	91
9) Trichlorofluoromethane	1.84	101	244960	21.190	ppb	96
10) 2-Propanol	2.33	45	717	No Calib	#	
11) Acetone	2.33	58	26440	92.475	ppb	86
12] 1,1-Dichloroethene	2.27	96	59989	21.253	ppb	100
13) Hexane	3.16	57	52139	19.966	ppb	88
14) Methylene chloride	2.69	84	53910	19.314	ppb	93
15) t-Butyl alcohol (TBA)	2.82	59	25865	101.884	ppb	89
16] Methyl t-butyl ether (...)	2.93	73	141919	20.925	ppb	98
17] trans-1,2-Dichloroethene	2.92	96	64305	20.585	ppb	96
18) Diisopropyl ether (DIPE)	3.35	45	130063	21.414	ppb	96
19] 1,1-Dichloroethane	3.28	63	82212	21.198	ppb	97
20) Ethyl t-butyl ether (E...)	3.66	87	66746	20.414	ppb	99
21) 2,2-Dichloropropane	3.77	77	63321	23.062	ppb	94
22] cis-1,2-Dichloroethene	3.77	96	69771	20.686	ppb	90
23) Chloroform	4.04	83	102323	20.357	ppb	99
24) 2-Butanone (MEK)	3.79	43	123004	96.785	ppb	97
25) t-Amyl methyl ether (T...)	4.61	73	128372	20.475	ppb	99
26] 1,2-Dichloroethane (EDC)	4.53	62	72207	20.840	ppb	94
27] 1,1,1-Trichloroethane	4.19	97	110651	20.772	ppb	94
28) 1,1-Dichloropropene	4.33	75	71505	19.621	ppb	99
29) Carbon tetrachloride	4.33	117	115122	20.342	ppb	97
31] Benzene	4.50	78	194752	21.637	ppb	96
32] Trichloroethene	5.05	95	74081	21.398	ppb	89
33) 1,2-Dichloropropane	5.24	63	40158	21.232	ppb	100
34) Bromodichloromethane	5.48	83	71470	19.841	ppb	99
36) Dibromomethane	5.35	93	39889	20.289	ppb	89

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

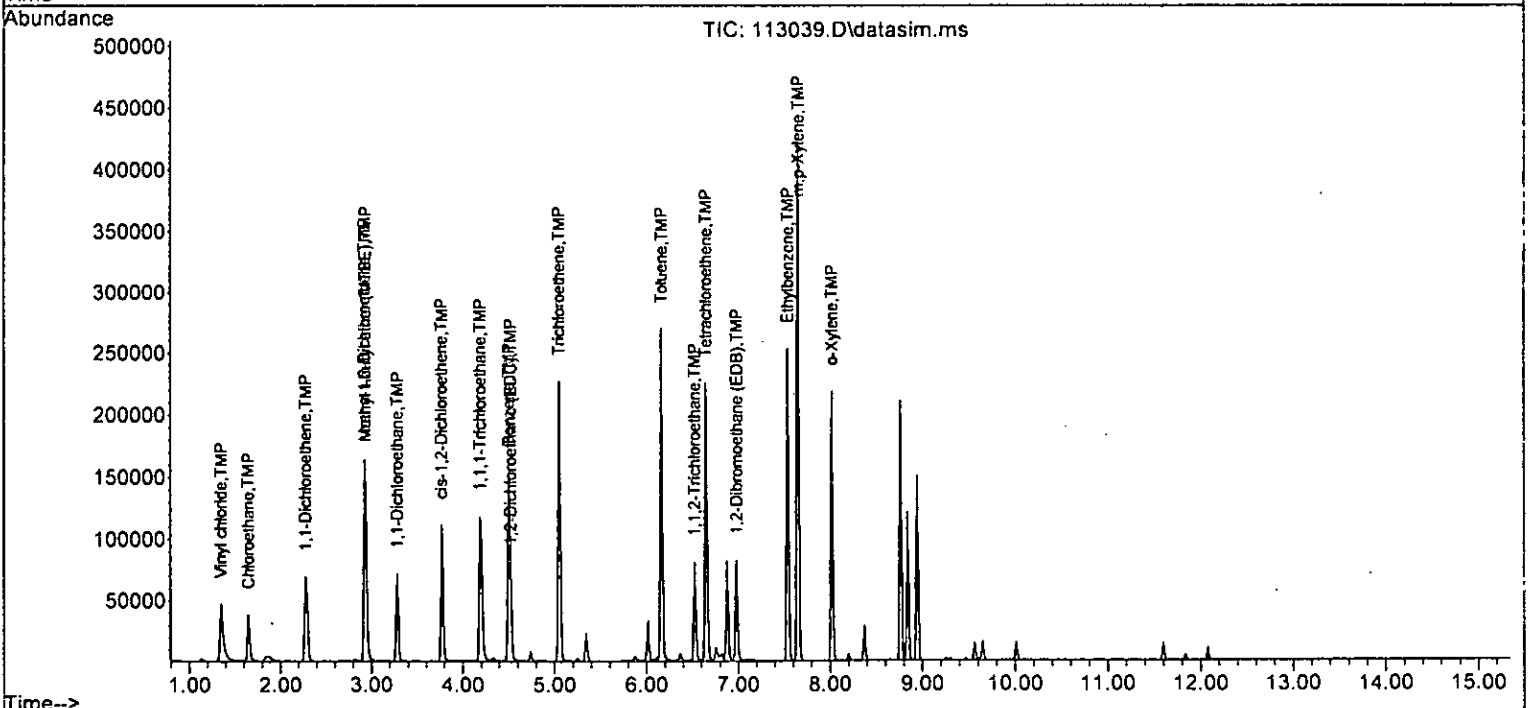
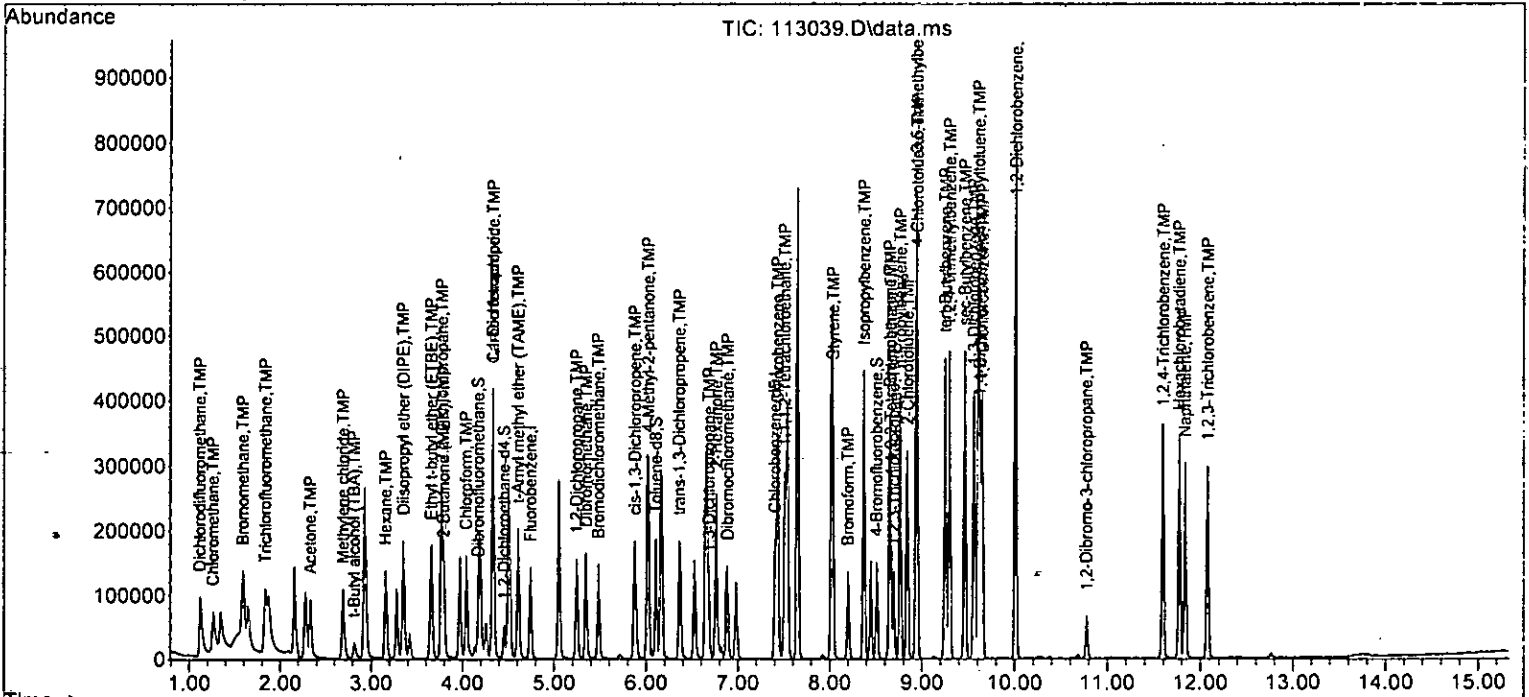
Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	45034	99.658	ppb	86
38) cis-1,3-Dichloropropene	5.88	75	75692	20.238	ppb	98
40] Toluene	6.16	92	139970	19.482	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	69498	18.901	ppb	98
42] 1,1,2-Trichloroethane	6.53	83	39372	19.482	ppb	97
43) 2-Hexanone	6.76	43	137944	94.306	ppb	100
44) 1,3-Dichloropropane	6.68	76	68370	19.573	ppb	96
45] Tetrachloroethene	6.65	164	84658	18.921	ppb	98
46) Dibromochloromethane	6.88	129	84730	19.281	ppb	97
47] 1,2-Dibromoethane (EDB)	6.98	107	65529	20.236	ppb	89
48) Chlorobenzene	7.43	112	185772	19.060	ppb	98
49] Ethylbenzene	7.54	91	254859	19.915	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.51	131	83289	19.527	ppb	98
51] m,p-Xylene	7.65	106	222036	39.474	ppb	99
52] o-Xylene	8.02	106	109667	19.452	ppb	98
53) Styrene	8.03	104	165596	18.883	ppb	99
54) Isopropylbenzene	8.37	105	267149	19.102	ppb	100
55) Bromoform	8.20	173	60396	19.324	ppb	99
58) n-Propylbenzene	8.77	91	270287	18.946	ppb	100
59) Bromobenzene	8.65	156	100820	19.425	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	223774	19.287	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.66	83	50688	18.746	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	40040	18.778	ppb	98
63) 2-Chlorotoluene	8.84	91	156735	19.338	ppb	94
64) 4-Chlorotoluene	8.95	91	186992	19.065	ppb	100
65) tert-Butylbenzene	9.25	119	231210	18.799	ppb	100
66) 1,2,4-Trimethylbenzene	9.30	105	232399	18.618	ppb	99
67) sec-Butylbenzene	9.46	105	291634	19.261	ppb	100
68) p-Isopropyltoluene	9.61	119	292452	19.284	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	178502	19.135	ppb	98
70) 1,4-Dichlorobenzene	9.65	146	177480	19.292	ppb	98
71) 1,2-Dichlorobenzene	10.01	146	169301	18.839	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	10739	18.762	ppb	91
73) 1,2,4-Trichlorobenzene	11.60	180	120132	19.061	ppb	97
74) Hexachlorobutadiene	11.77	225	68661	18.487	ppb	98
75) Naphthalene	11.83	128	231905	18.930	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	94469	18.940	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	10.539	-5.4	100	0.00
4 TMP Dichlorodifluoromethane	20.000	20.484	-2.4	100	0.00
5 TMP Chloromethane	20.000	19.313	3.4	100	0.00
6 TMP Vinyl chloride	20.000	21.806	-9.0	100	0.02
7 TMP Bromomethane	20.000	21.820	-9.1	100	0.02
8 TMP Chloroethane	20.000	20.760	-3.8	100	0.00
9 TMP Trichlorofluoromethane	20.000	21.190	-6.0	100	0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	100.000	92.475	7.5	100	0.01
12 TMP 1,1-Dichloroethene	20.000	21.253	-6.3	100	0.01
13 TMP Hexane	20.000	19.966	0.2	100	0.00
14 TMP Methylene chloride	20.000	19.314	3.4	100	0.01
15 TMP t-Butyl alcohol (TBA)	100.000	101.884	-1.9	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	20.000	20.925	-4.6	100	0.01
17 TMP trans-1,2-Dichloroethene	20.000	20.585	-2.9	100	0.01
18 TMP Diisopropyl ether (DIPE)	20.000	21.414	-7.1	100	0.00
19 TMP 1,1-Dichloroethane	20.000	21.198	-6.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	20.000	20.414	-2.1	100	0.00
21 TMP 2,2-Dichloropropane	20.000	23.062	-15.3	100	0.01
22 TMP cis-1,2-Dichloroethene	20.000	20.686	-3.4	100	0.00
23 TMP Chloroform	20.000	20.357	-1.8	100	0.00
24 TMP 2-Butanone (MEK)	100.000	96.785	3.2	100	0.01
25 TMP t-Amyl methyl ether (TAME)	20.000	20.475	-2.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	20.000	20.840	-4.2	100	0.01
27 TMP 1,1,1-Trichloroethane	20.000	20.772	-3.9	100	0.00
28 TMP 1,1-Dichloropropene	20.000	19.621	1.9	100	0.00
29 TMP Carbon tetrachloride	20.000	20.342	-1.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.389	-3.9	100	0.00
31 TMP Benzene	20.000	21.637	-8.2	100	0.00
32 TMP Trichloroethene	20.000	21.398	-7.0	100	0.00
33 TMP 1,2-Dichloropropane	20.000	21.232	-6.2	100	0.00
34 TMP Bromodichloromethane	20.000	19.841	0.8	100	0.00
35 S Toluene-d8	10.000	10.613	-6.1	100	0.00
36 TMP Dibromomethane	20.000	20.289	-1.4	100	0.01
37 TMP 4-Methyl-2-pentanone	100.000	99.658	0.3	100	0.01
38 TMP cis-1,3-Dichloropropene	20.000	20.238	-1.2	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	20.000	19.482	2.6	100	0.00
41 TMP trans-1,3-Dichloropropene	20.000	18.901	5.5	100	0.00
42 TMP 1,1,2-Trichloroethane	20.000	19.482	2.6	100	0.00
43 TMP 2-Hexanone	100.000	94.306	5.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	20.000	19.573	2.1	100	0.01
45 TMP Tetrachloroethene	20.000	18.921	5.4	100	0.00
46 TMP Dibromochloromethane	20.000	19.281	3.6	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	20.000	20.236	-1.2	100	0.01
48 TMP Chlorobenzene	20.000	19.060	4.7	100	0.00
49 TMP Ethylbenzene	20.000	19.915	0.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	20.000	19.527	2.4	100	0.00
51 TMP m,p-Xylene	40.000	39.474	1.3	100	0.00
52 TMP o-Xylene	20.000	19.452	2.7	100	0.00
53 TMP Styrene	20.000	18.883	5.6	100	0.00
54 TMP Isopropylbenzene	20.000	19.102	4.5	100	0.00
55 TMP Bromoform	20.000	19.324	3.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.016	-0.2	100	0.00
58 TMP n-Propylbenzene	20.000	18.946	5.3	100	0.00
59 TMP Bromobenzene	20.000	19.425	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	20.000	19.287	3.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	20.000	18.746	6.3	100	0.00
62 TMP 1,2,3-Trichloropropane	20.000	18.778	6.1	100	0.00
63 TMP 2-Chlorotoluene	20.000	19.338	3.3	100	0.00
64 TMP 4-Chlorotoluene	20.000	19.065	4.7	100	0.00
65 TMP tert-Butylbenzene	20.000	18.799	6.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	20.000	18.618	6.9	100	0.00
67 TMP sec-Butylbenzene	20.000	19.261	3.7	100	0.00
68 TMP p-Isopropyltoluene	20.000	19.284	3.6	100	0.00
69 TMP 1,3-Dichlorobenzene	20.000	19.135	4.3	100	0.00
70 TMP 1,4-Dichlorobenzene	20.000	19.292	3.5	100	0.00
71 TMP 1,2-Dichlorobenzene	20.000	18.839	5.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	20.000	18.762	6.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	20.000	19.061	4.7	100	0.00
74 TMP Hexachlorobutadiene	20.000	18.487	7.6	100	0.00
75 TMP Naphthalene	20.000	18.930	5.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	20.000	18.940	5.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.336	-5.3	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.597	-2.6	100	0.00
5 TMP Chloromethane	0.386	0.373	3.4	100	0.00
6 TMP Vinyl chloride	0.373	0.407	-9.1	100	0.02
7 TMP Bromomethane	0.385	0.420	-9.1	100	0.02
8 TMP Chloroethane	0.200	0.207	-3.5	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.076	-6.0	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.023	-4.5	100	0.01
12 TMP 1,1-Dichloroethene	0.248	0.263	-6.0	100	0.01
13 TMP Hexane	0.236	0.229	3.0	100	0.00
14 TMP Methylene chloride	0.247	0.237	4.0	100	0.01
15 TMP t-Butyl alcohol (TBA)	0.022	0.023#	-4.5	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.623	-4.5	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.282	-2.9	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.571	-7.1	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.361	-5.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.293	-2.1	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.278	6.4	100	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.306	-3.4	100	0.00
23 TMP Chloroform	0.441	0.449	-1.8	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.108	-5.9	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.564	-2.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.317	5.1	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.486	-3.8	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.314	1.9	100	0.00
29 TMP Carbon tetrachloride	0.497	0.506	-1.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.849	0.855	-0.7	100	0.00
32 TMP Trichloroethene	0.304	0.325	-6.9	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.176	6.9	100	0.00
34 TMP Bromodichloromethane	0.316	0.314	0.6	100	0.00
35 S Toluene-d8	0.899	0.954	-6.1	100	0.00
36 TMP Dibromomethane	0.173	0.175	-1.2	100	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.040	0.0	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.332	-0.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.677	5.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.336	5.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.190	6.9	100	0.00
43 TMP 2-Hexanone	0.142	0.133	6.3	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.331	2.1	100	0.01
45 TMP Tetrachloroethene	0.443	0.410	7.4	100	0.00
46 TMP Dibromochloromethane	0.425	0.410	3.5	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.317	5.4	100	0.01
48 TMP Chlorobenzene	0.943	0.899	4.7	100	0.00
49 TMP Ethylbenzene	1.560	1.233	21.0#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.403	2.4	100	0.00
51 TMP m,p-Xylene	0.718	0.537	25.2#	100	0.00
52 TMP o-Xylene	0.611	0.531	13.1	100	0.00
53 TMP Styrene	0.848	0.801	5.5	100	0.00
54 TMP Isopropylbenzene	1.353	1.292	4.5	100	0.00
55 TMP Bromoform	0.302	0.292	3.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.607	-0.2	100	0.00
58 TMP n-Propylbenzene	2.257	2.138	5.3	100	0.00
59 TMP Bromobenzene	0.821	0.798	2.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.770	3.6	100	0.00
61 TMP 1,1,1,2-Tetrachloroethane	0.433	0.401#	7.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.317#	5.9	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.240	3.3	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.479	4.7	100	0.00
65 TMP tert-Butylbenzene	1.946	1.829	6.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.839	6.9	100	0.00
67 TMP sec-Butylbenzene	2.396	2.307	3.7	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.314	3.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.412	4.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.404	3.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.339	5.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.085	6.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.950	4.7	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.543	7.7	100	0.00
75 TMP Naphthalene	1.938	1.835	5.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.747	5.3	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 5 Dibromofluoromethane	10.000	10.853	-8.5	100	0.00
4 TMP Dichlorodifluoromethane	50.000	53.594	-7.2	100	0.00
5 TMP Chloromethane	50.000	51.900	-3.8	100	0.00
6 TMP Vinyl chloride	50.000	56.556	-13.1	100	0.00
7 TMP Bromomethane	50.000	51.172	-2.3	100	0.00
8 TMP Chloroethane	50.000	53.499	-7.0	100	0.00
9 TMP Trichlorofluoromethane	50.000	54.248	-8.5	100	0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	250.000	242.282	3.1	100	0.01
12 TMP 1,1-Dichloroethene	50.000	53.795	-7.6	100	0.01
13 TMP Hexane	50.000	52.294	-4.6	100	0.00
14 TMP Methylene chloride	50.000	51.290	-2.6	100	0.01
15 TMP t-Butyl alcohol (TBA)	250.000	255.771	-2.3	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	50.000	53.407	-6.8	100	0.01
17 TMP trans-1,2-Dichloroethene	50.000	52.903	-5.8	100	0.01
18 TMP Diisopropyl ether (DIPE)	50.000	50.127	-0.3	100	0.00
19 TMP 1,1-Dichloroethane	50.000	53.744	-7.5	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	50.000	53.003	-6.0	100	0.00
21 TMP 2,2-Dichloropropane	50.000	58.256	-16.5	100	0.00
22 TMP cis-1,2-Dichloroethene	50.000	52.806	-5.6	100	0.00
23 TMP Chloroform	50.000	52.551	-5.1	100	0.00
24 TMP 2-Butanone (MEK)	250.000	250.805	-0.3	100	0.01
25 TMP t-Amyl methyl ether (TAME)	50.000	53.032	-6.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	50.000	52.556	-5.1	100	0.01
27 TMP 1,1,1-Trichloroethane	50.000	53.465	-6.9	100	0.00
28 TMP 1,1-Dichloropropene	50.000	50.128	-0.3	100	0.00
29 TMP Carbon tetrachloride	50.000	53.826	-7.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.650	-6.5	100	0.00
31 TMP Benzene	50.000	55.612	-11.2	100	0.00
32 TMP Trichloroethene	50.000	54.605	-9.2	100	0.00
33 TMP 1,2-Dichloropropane	50.000	55.423	-10.8	100	0.00
34 TMP Bromodichloromethane	50.000	52.618	-5.2	100	0.00
35 S Toluene-d8	10.000	10.438	-4.4	100	0.00
36 TMP Dibromomethane	50.000	52.864	-5.7	100	0.01
37 TMP 4-Methyl-2-pentanone	250.000	263.434	-5.4	100	0.00
38 TMP cis-1,3-Dichloropropene	50.000	52.626	-5.3	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	50.000	51.773	-3.5	100	0.00
41 TMP trans-1,3-Dichloropropene	50.000	51.408	-2.8	100	0.00
42 TMP 1,1,2-Trichloroethane	50.000	51.263	-2.5	100	0.00
43 TMP 2-Hexanone	250.000	252.610	-1.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	50.000	49.709	0.6	100	0.01
45 TMP Tetrachloroethene	50.000	50.739	-1.5	100	0.00
46 TMP Dibromochloromethane	50.000	52.895	-5.8	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	50.000	53.434	-6.9	100	0.01
48 TMP Chlorobenzene	50.000	51.621	-3.2	100	0.00
49 TMP Ethylbenzene	50.000	52.075	-4.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	50.000	51.496	-3.0	100	0.00
51 TMP m,p-Xylene	100.000	102.855	-2.9	100	0.00
52 TMP o-Xylene	50.000	51.158	-2.3	100	0.00
53 TMP Styrene	50.000	50.717	-1.4	100	0.00
54 TMP Isopropylbenzene	50.000	50.818	-1.6	100	0.00
55 TMP Bromoform	50.000	52.888	-5.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.656	3.4	100	0.00
58 TMP n-Propylbenzene	50.000	48.483	3.0	100	0.00
59 TMP Bromobenzene	50.000	50.458	-0.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	50.000	49.676	0.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	50.000	48.132	3.7	100	0.00
62 TMP 1,2,3-Trichloropropane	50.000	48.857	2.3	100	0.00
63 TMP 2-Chlorotoluene	50.000	49.456	1.1	100	0.00
64 TMP 4-Chlorotoluene	50.000	49.350	1.3	100	0.00
65 TMP tert-Butylbenzene	50.000	49.735	0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	50.000	48.756	2.5	100	0.00
67 TMP sec-Butylbenzene	50.000	50.941	-1.9	100	0.00
68 TMP p-Isopropyltoluene	50.000	51.441	-2.9	100	0.00
69 TMP 1,3-Dichlorobenzene	50.000	49.741	0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	50.000	49.937	0.1	100	0.00
71 TMP 1,2-Dichlorobenzene	50.000	49.288	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	50.000	49.133	1.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	50.000	50.891	-1.8	100	0.00
74 TMP Hexachlorobutadiene	50.000	50.378	-0.8	100	0.00
75 TMP Naphthalene	50.000	50.905	-1.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	50.000	50.573	-1.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.346	-8.5	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.624	-7.2	100	0.00
5 TMP Chloromethane	0.386	0.401	-3.9	100	0.00
6 TMP Vinyl chloride	0.373	0.422	-13.1	100	0.00
7 TMP Bromomethane	0.385	0.394	-2.3	100	0.00
8 TMP Chloroethane	0.200	0.214	-7.0	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.102	-8.6	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.024	-9.1	100	0.01
12 TMP 1,1-Dichloroethene	0.248	0.267	-7.7	100	0.01
13 TMP Hexane	0.236	0.238	-0.8	100	0.00
14 TMP Methylene chloride	0.247	0.240	2.8	100	0.01
15 TMP t-Butyl alcohol (TBA)	0.022	0.023#	-4.5	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.636	-6.7	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.290	-5.8	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.535	-0.4	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.366	-7.3	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.304	-5.9	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.279	6.1	100	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.313	-5.7	100	0.00
23 TMP Chloroform	0.441	0.464	-5.2	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.108	-5.9	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.584	-6.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.320	4.2	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.500	-6.8	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.321	-0.3	100	0.00
29 TMP Carbon tetrachloride	0.497	0.535	-7.6	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.064	-6.7	100	0.00
31 TMP Benzene	0.849	0.879	-3.5	100	0.00
32 TMP Trichloroethene	0.304	0.332	-9.2	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.183	3.2	100	0.00
34 TMP Bromodichloromethane	0.316	0.333	-5.4	100	0.00
35 S Toluene-d8	0.899	0.938	-4.3	100	0.00
36 TMP Dibromomethane	0.173	0.183	-5.8	100	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.042	-5.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.346	-5.2	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.720	-0.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.366	-2.8	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.200	2.0	100	0.00
43 TMP 2-Hexanone	0.142	0.143	-0.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.336	0.6	100	0.01
45 TMP Tetrachloroethene	0.443	0.433	2.3	100	0.00
46 TMP Dibromochloromethane	0.425	0.450	-5.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.335	0.0	100	0.01
48 TMP Chlorobenzene	0.943	0.974	-3.3	100	0.00
49 TMP Ethylbenzene	1.560	1.288	17.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.425	-2.9	100	0.00
51 TMP m,p-Xylene	0.718	0.559	22.1#	100	0.00
52 TMP o-Xylene	0.611	0.558	8.7	100	0.00
53 TMP Styrene	0.848	0.861	-1.5	100	0.00
54 TMP Isopropylbenzene	1.353	1.375	-1.6	100	0.00
55 TMP Bromoform	0.302	0.320	-6.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.585	3.5	100	0.00
58 TMP n-Propylbenzene	2.257	2.189	3.0	100	0.00
59 TMP Bromobenzene	0.821	0.829	-1.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.824	0.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.412#	4.8	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.330#	2.1	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.269	1.0	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.532	1.3	100	0.00
65 TMP tert-Butylbenzene	1.946	1.936	0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.926	2.5	100	0.00
67 TMP sec-Butylbenzene	2.396	2.441	-1.9	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.469	-2.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.468	0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.454	0.1	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.402	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.089	2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.015	-1.8	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.592	-0.7	100	0.00
75 TMP Naphthalene	1.938	1.973	-1.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.798	-1.1	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	111462	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	99189	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	62528	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	38537	10.853	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	108.50%
30) 1,2-Dichloroethane-d4	4.45	102	7088	10.650	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	106.50%
35) Toluene-d8	6.11	98	104583	10.438	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	104.40%
57) 4-Bromofluorobenzene	8.51	95	36588	9.656	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	96.60%
Target Compounds						
						Qvalue
2) Ethanol	2.33	45	1355	No Calib		
4) Dichlorodifluoromethane	1.12	85	347925	53.594	ppb	96
5) Chloromethane	1.26	50	223237	51.900	ppb	97
6] Vinyl chloride	1.34	62	235243	56.556	ppb	100
7) Bromomethane	1.58	94	219658	51.172	ppb	99
8] Chloroethane	1.65	64	119140	53.499	ppb	96
9) Trichlorofluoromethane	1.84	101	613963	54.248	ppb	97
10) 2-Propanol	2.33	45	1355	No Calib	#	
11) Acetone	2.33	58	65765	242.282	ppb	100
12] 1,1-Dichloroethene	2.27	96	148652	53.795	ppb	93
13) Hexane	3.16	57	132892	52.294	ppb	91
14) Methylene chloride	2.69	84	133993	51.290	ppb	98
15) t-Butyl alcohol (TBA)	2.82	59	63569	255.771	ppb	99
16] Methyl t-butyl ether (...	2.93	73	354627	53.407	ppb	96
17] trans-1,2-Dichloroethene	2.92	96	161792	52.903	ppb	91
18) Diisopropyl ether (DIPE)	3.35	45	298064	50.127	ppb	97
19] 1,1-Dichloroethane	3.27	63	204059	53.744	ppb	95
20) Ethyl t-butyl ether (E...	3.66	87	169657	53.003	ppb	96
21) 2,2-Dichloropropane	3.76	77	155346	58.256	ppb	95
22] cis-1,2-Dichloroethene	3.77	96	174367	52.806	ppb	94
23) Chloroform	4.04	83	258596	52.551	ppb	97
24) 2-Butanone (MEK)	3.79	43	301720	250.805	ppb	95
25) t-Amyl methyl ether (T...	4.61	73	325507	53.032	ppb	99
26] 1,2-Dichloroethane (EDC)	4.53	62	178179	52.556	ppb	92
27] 1,1,1-Trichloroethane	4.19	97	278831	53.465	ppb	97
28) 1,1-Dichloropropene	4.33	75	178844	50.128	ppb	98
29) Carbon tetrachloride	4.33	117	298224	53.826	ppb	100
31] Benzene	4.50	78	489860	55.612	ppb	97
32] Trichloroethene	5.05	95	185073	54.605	ppb	92
33) 1,2-Dichloropropane	5.24	63	102087	55.423	ppb	99
34) Bromodichloromethane	5.48	83	185560	52.618	ppb	96
36) Dibromomethane	5.35	93	101753	52.864	ppb	84

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

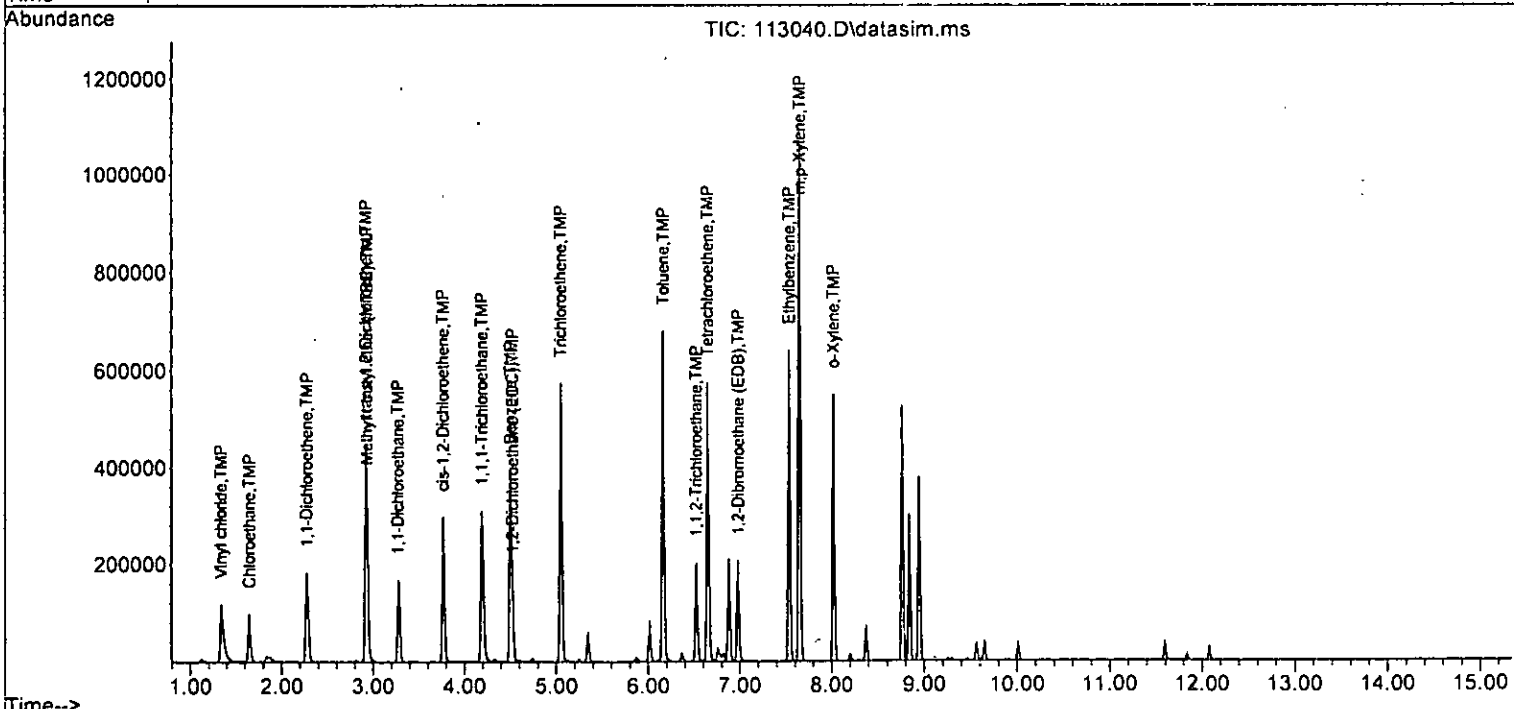
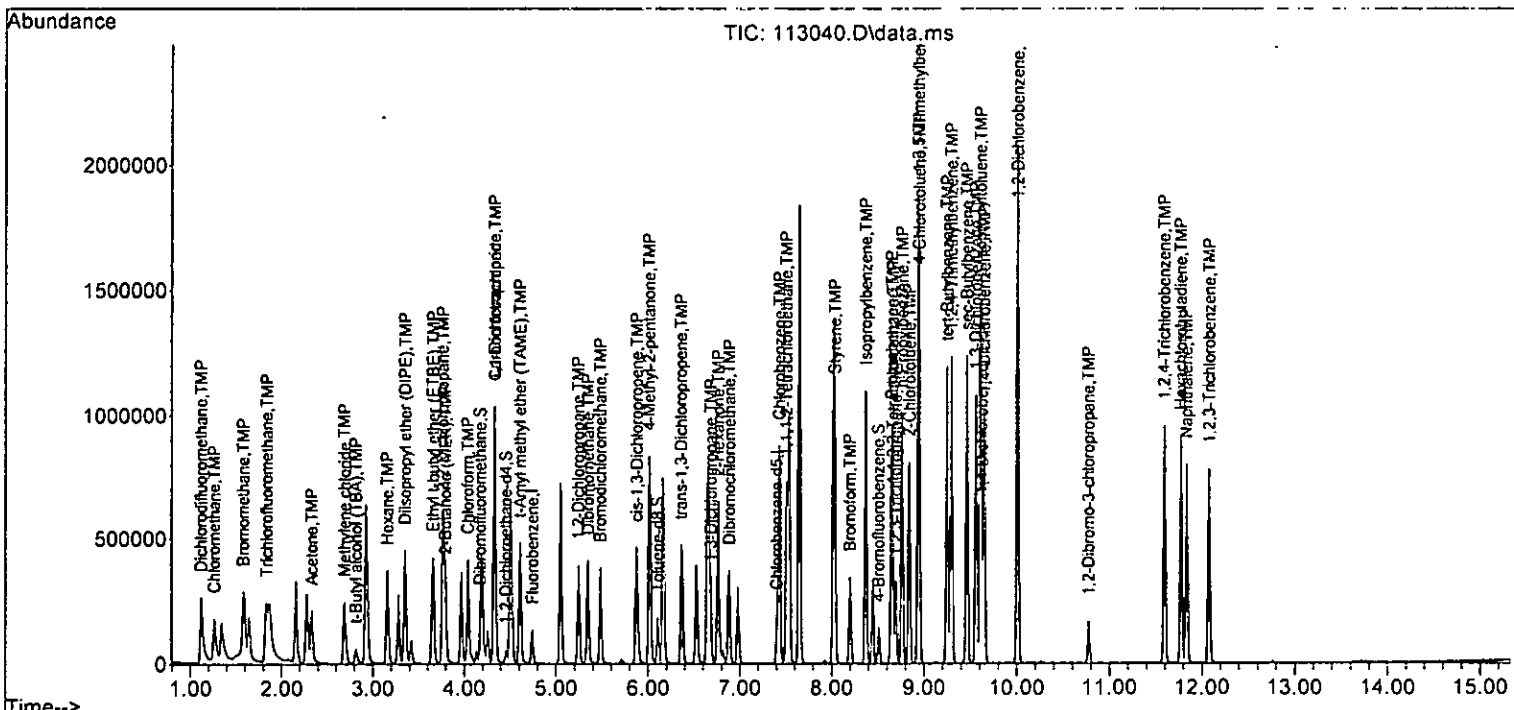
Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	116543	263.434	ppb	91
38) cis-1,3-Dichloropropene	5.88	75	192695	52.626	ppb	99
40] Toluene	6.16	92	356903	51.773	ppb	100
41) trans-1,3-Dichloropropene	6.36	75	181406	51.408	ppb	98
42] 1,1,2-Trichloroethane	6.53	83	99400	51.263	ppb	99
43) 2-Hexanone	6.76	43	354611	252.610	ppb	99
44) 1,3-Dichloropropane	6.68	76	166639	49.709	ppb	96
45] Tetrachloroethene	6.65	164	214713	50.739	ppb	99
46) Dibromochloromethane	6.88	129	223080	52.895	ppb	99
47] 1,2-Dibromoethane (EDB)	6.98	107	165995	53.434	ppb	89
48) Chlorobenzene	7.43	112	482866	51.621	ppb	99
49] Ethylbenzene	7.54	91	638595	52.075	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	210792	51.496	ppb	97
51] m,p-Xylene	7.65	106	554184	102.855	ppb	100
52] o-Xylene	8.02	106	276592	51.158	ppb	98
53) Styrene	8.03	104	426843	50.717	ppb	100
54) Isopropylbenzene	8.37	105	682063	50.818	ppb	99
55) Bromoform	8.20	173	158638	52.888	ppb	98
58) n-Propylbenzene	8.77	91	684347	48.483	ppb	100
59) Bromobenzene	8.65	156	259103	50.458	ppb	90
60) 1,3,5-Trimethylbenzene	8.94	105	570235	49.676	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.66	83	128702	48.132	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	103070	48.857	ppb	99
63) 2-Chlorotoluene	8.84	91	396592	49.456	ppb	94
64) 4-Chlorotoluene	8.95	91	478899	49.350	ppb	99
65) tert-Butylbenzene	9.25	119	605193	49.735	ppb	99
66) 1,2,4-Trimethylbenzene	9.30	105	602144	48.756	ppb	97
67) sec-Butylbenzene	9.46	105	763099	50.941	ppb	99
68) p-Isopropyltoluene	9.61	119	771864	51.441	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	459090	49.741	ppb	99
70) 1,4-Dichlorobenzene	9.65	146	454527	49.937	ppb	99
71) 1,2-Dichlorobenzene	10.01	146	438229	49.288	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	27824	49.133	ppb	98
73) 1,2,4-Trichlorobenzene	11.59	180	317329	50.891	ppb	99
74) Hexachlorobutadiene	11.77	225	185113	50.378	ppb	99
75) Naphthalene	11.83	128	616990	50.905	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	249571	50.573	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
Data File : 113040.D  
Acq On : 01 Dec 2022 02:35 am  
Operator : LM  
Sample : 50 ppb 8260 ICAL 68-4Q  
Misc : soil/water  
ALS Vial : 26 Sample Multiplier: 1  
InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Thu Dec 01 12:14:23 2022  
Response via : Initial Calibration  
DataAcq Meth: VM080322.M





Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	9.784	2.2	100	0.00
4 TMP Dichlorodifluoromethane	100.000	99.939	0.1	100	0.00
5 TMP Chloromethane	100.000	98.520	1.5	100	0.00
6 TMP Vinyl chloride	100.000	104.786	-4.8	100	0.00
7 TMP Bromomethane	100.000	95.062	4.9	100	0.00
8 TMP Chloroethane	100.000	99.438	0.6	100	0.00
9 TMP Trichlorofluoromethane	100.000	101.092	-1.1	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	500.000	535.162	-7.0	100	0.00
12 TMP 1,1-Dichloroethene	100.000	97.329	2.7	100	0.01
13 TMP Hexane	100.000	100.500	-0.5	100	0.00
14 TMP Methylene chloride	100.000	98.691	1.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	500.000	470.455	5.9	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	100.000	96.635	3.4	100	0.01
17 TMP trans-1,2-Dichloroethene	100.000	94.982	5.0	100	0.01
18 TMP Diisopropyl ether (DIPE)	100.000	101.291	-1.3	100	0.00
19 TMP 1,1-Dichloroethane	100.000	96.701	3.3	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	100.000	98.719	1.3	100	0.00
21 TMP 2,2-Dichloropropane	100.000	103.358	-3.4	100	0.00
22 TMP cis-1,2-Dichloroethene	100.000	95.308	4.7	100	0.00
23 TMP Chloroform	100.000	95.695	4.3	100	0.00
24 TMP 2-Butanone (MEK)	500.000	506.395	-1.3	100	0.00
25 TMP t-Amyl methyl ether (TAME)	100.000	96.007	4.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	100.000	95.133	4.9	100	0.00
27 TMP 1,1,1-Trichloroethane	100.000	97.457	2.5	100	0.00
28 TMP 1,1-Dichloropropene	100.000	91.502	8.5	100	0.00
29 TMP Carbon tetrachloride	100.000	100.004	-0.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.231	7.7	100	0.00
31 TMP Benzene	100.000	101.563	-1.6	100	0.00
32 TMP Trichloroethene	100.000	97.486	2.5	100	0.00
33 TMP 1,2-Dichloropropane	100.000	101.546	-1.5	100	0.00
34 TMP Bromodichloromethane	100.000	98.274	1.7	100	0.00
35 S Toluene-d8	10.000	10.252	-2.5	100	0.00
36 TMP Dibromomethane	100.000	98.699	1.3	100	0.00
37 TMP 4-Methyl-2-pentanone	500.000	518.133	-3.6	100	0.00
38 TMP cis-1,3-Dichloropropene	100.000	100.287	-0.3	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	100.000	99.872	0.1	100	0.00
41 TMP trans-1,3-Dichloropropene	100.000	99.704	0.3	100	0.00
42 TMP 1,1,2-Trichloroethane	100.000	99.363	0.6	100	0.00
43 TMP 2-Hexanone	500.000	515.828	-3.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\V8113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	100.000	96.567	3.4	100	0.01
45 TMP Tetrachloroethene	100.000	99.827	0.2	100	0.00
46 TMP Dibromochloromethane	100.000	105.205	-5.2	100	0.01
47 TMP 1,2-Dibromoethane (ED8)	100.000	103.845	-3.8	100	0.01
48 TMP Chlorobenzene	100.000	99.491	0.5	100	0.00
49 TMP Ethylbenzene	100.000	98.717	1.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	100.000	102.344	-2.3	100	0.00
51 TMP m,p-Xylene	200.000	197.219	1.4	100	0.00
52 TMP o-Xylene	100.000	99.033	1.0	100	0.00
53 TMP Styrene	100.000	98.366	1.6	100	0.00
54 TMP Isopropylbenzene	100.000	98.946	1.1	100	0.00
55 TMP Bromoform	100.000	108.437	-8.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.809	1.9	100	0.00
58 TMP n-Propylbenzene	100.000	96.793	3.2	100	0.00
59 TMP Bromobenzene	100.000	101.587	-1.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	100.000	99.582	0.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	100.000	99.874	0.1	100	0.00
62 TMP 1,2,3-Trichloropropane	100.000	98.729	1.3	100	0.00
63 TMP 2-Chlorotoluene	100.000	97.977	2.0	100	0.00
64 TMP 4-Chlorotoluene	100.000	96.967	3.0	100	0.00
65 TMP tert-Butylbenzene	100.000	99.671	0.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	100.000	98.876	1.1	100	0.00
67 TMP sec-Butylbenzene	100.000	102.787	-2.8	100	0.00
68 TMP p-Isopropyltoluene	100.000	103.835	-3.8	100	0.00
69 TMP 1,3-Dichlorobenzene	100.000	100.113	-0.1	100	0.00
70 TMP 1,4-Dichlorobenzene	100.000	100.406	-0.4	100	0.00
71 TMP 1,2-Dichlorobenzene	100.000	100.276	-0.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	100.000	101.530	-1.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	100.000	104.782	-4.8	100	0.00
74 TMP Hexachlorobutadiene	100.000	100.664	-0.7	100	0.00
75 TMP Naphthalene	100.000	105.416	-5.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	100.000	105.081	-5.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-45  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.312	2.2	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.582	0.0	100	0.00
5 TMP Chloromethane	0.386	0.380	1.6	100	0.00
6 TMP Vinyl chloride	0.373	0.391	-4.8	100	0.00
7 TMP Bromomethane	0.385	0.366	4.9	100	0.00
8 TMP Chloroethane	0.200	0.199	0.5	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.026	-1.1	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.024	-9.1	100	0.00
12 TMP 1,1-Dichloroethene	0.248	0.241	2.8	100	0.01
13 TMP Hexane	0.236	0.229	3.0	100	0.00
14 TMP Methylene chloride	0.247	0.222	10.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.021#	4.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.576	3.4	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.261	4.7	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.540	-1.3	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.329	3.5	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.283	1.4	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.247	16.8	100	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.282	4.7	100	0.00
23 TMP Chloroform	0.441	0.422	4.3	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.102	0.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.551	0.529	4.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.289	13.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.456	2.6	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.293	8.4	100	0.00
29 TMP Carbon tetrachloride	0.497	0.497	0.0	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	100	0.00
31 TMP Benzene	0.849	0.803	5.4	100	0.00
32 TMP Trichloroethene	0.304	0.296	2.6	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.168	11.1	100	0.00
34 TMP Bromodichloromethane	0.316	0.311	1.6	100	0.00
35 S Toluene-d8	0.899	0.922	-2.6	100	0.00
36 TMP Dibromomethane	0.173	0.170	1.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.041	-2.5	100	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.329	0.0	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.694	3.5	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.355	0.3	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.194	4.9	100	0.00
43 TMP 2-Hexanone	0.142	0.146	-2.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.326	3.6	100	0.01
45 TMP Tetrachloroethene	0.443	0.416	6.1	100	0.00
46 TMP Dibromochloromethane	0.425	0.447	-5.2	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.325	3.0	100	0.01
48 TMP Chlorobenzene	0.943	0.938	0.5	100	0.00
49 TMP Ethylbenzene	1.560	1.220	21.8#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.422	-2.2	100	0.00
51 TMP m,p-Xylene	0.718	0.535	25.5#	100	0.00
52 TMP o-Xylene	0.611	0.540	11.6	100	0.00
53 TMP Styrene	0.848	0.835	1.5	100	0.00
54 TMP Isopropylbenzene	1.353	1.339	1.0	100	0.00
55 TMP Bromoform	0.302	0.328	-8.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.594	2.0	100	0.00
58 TMP n-Propylbenzene	2.257	2.185	3.2	100	0.00
59 TMP Bromobenzene	0.821	0.834	-1.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.828	0.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.427#	1.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.333#	1.2	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.257	2.0	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.505	3.0	100	0.00
65 TMP tert-Butylbenzene	1.946	1.940	0.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.953	1.1	100	0.00
67 TMP sec-Butylbenzene	2.396	2.463	-2.8	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.492	-3.8	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.478	-0.1	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.462	-0.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.426	-0.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.092	-1.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.045	-4.8	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.592	-0.7	100	0.00
75 TMP Naphthalene	1.938	2.043	-5.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.829	-5.1	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	119165	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	103163	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	63316	10.000	ppb	# 0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	37143	9.784	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.80%	
30) 1,2-Dichloroethane-d4	4.45	102	6568	9.231	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	92.30%	
35) Toluene-d8	6.10	98	109813	10.252	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	102.50%	
57) 4-Bromofluorobenzene	8.51	95	37636	9.809	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.10%	
<b>Target Compounds</b>							
2) Ethanol	2.33	45	2247	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	693626	99.939	ppb		94
5) Chloromethane	1.25	50	453045	98.520	ppb		97
6] Vinyl chloride	1.34	62	465978	104.786	ppb		94
7) Bromomethane	1.58	94	436259	95.062	ppb		98
8] Chloroethane	1.64	64	236746	99.438	ppb		93
9) Trichlorofluoromethane	1.83	101	1223188	101.092	ppb		99
10) 2-Propanol	2.33	45	2247	No Calib			
11) Acetone	2.32	58	142294	535.162	ppb		100
12] 1,1-Dichloroethene	2.27	96	287539	97.329	ppb		85
13) Hexane	3.16	57	272559	100.500	ppb		94
14) Methylene chloride	2.68	84	264352	98.691	ppb		97
15) t-Butyl alcohol (T8A)	2.81	59	125007	470.455	ppb		96
16] Methyl t-butyl ether (...)	2.93	73	686003	96.635	ppb		94
17] trans-1,2-Dichloroethene	2.92	96	310556	94.982	ppb		85
18) Diisopropyl ether (DIPE)	3.35	45	643922	101.291	ppb		96
19] 1,1-Dichloroethane	3.27	63	392532	96.701	ppb		98
20) Ethyl t-butyl ether (E...)	3.65	87	337828	98.719	ppb		98
21) 2,2-Dichloropropane	3.76	77	293984	103.358	ppb		95
22] cis-1,2-Dichloroethene	3.77	96	336461	95.308	ppb		99
23) Chloroform	4.04	83	503443	95.695	ppb		98
24) 2-Butanone (MEK)	3.78	43	610655	506.395	ppb		99
25) t-Amyl methyl ether (T...)	4.61	73	630012	96.007	ppb		97
26] 1,2-Dichloroethane (EDC)	4.52	62	344758	95.133	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	543379	97.457	ppb		99
28) 1,1-Dichloropropene	4.33	75	349019	91.502	ppb		97
29) Carbon tetrachloride	4.33	117	592363	100.004	ppb		99
31] Benzene	4.50	78	956350	101.563	ppb		99
32] Trichloroethene	5.05	95	353243	97.486	ppb		98
33) 1,2-Dichloropropane	5.24	63	199672	101.546	ppb		98
34) Bromodichloromethane	5.48	83	370524	98.274	ppb		98
36) Dibromomethane	5.34	93	203104	98.699	ppb		97

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-45  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

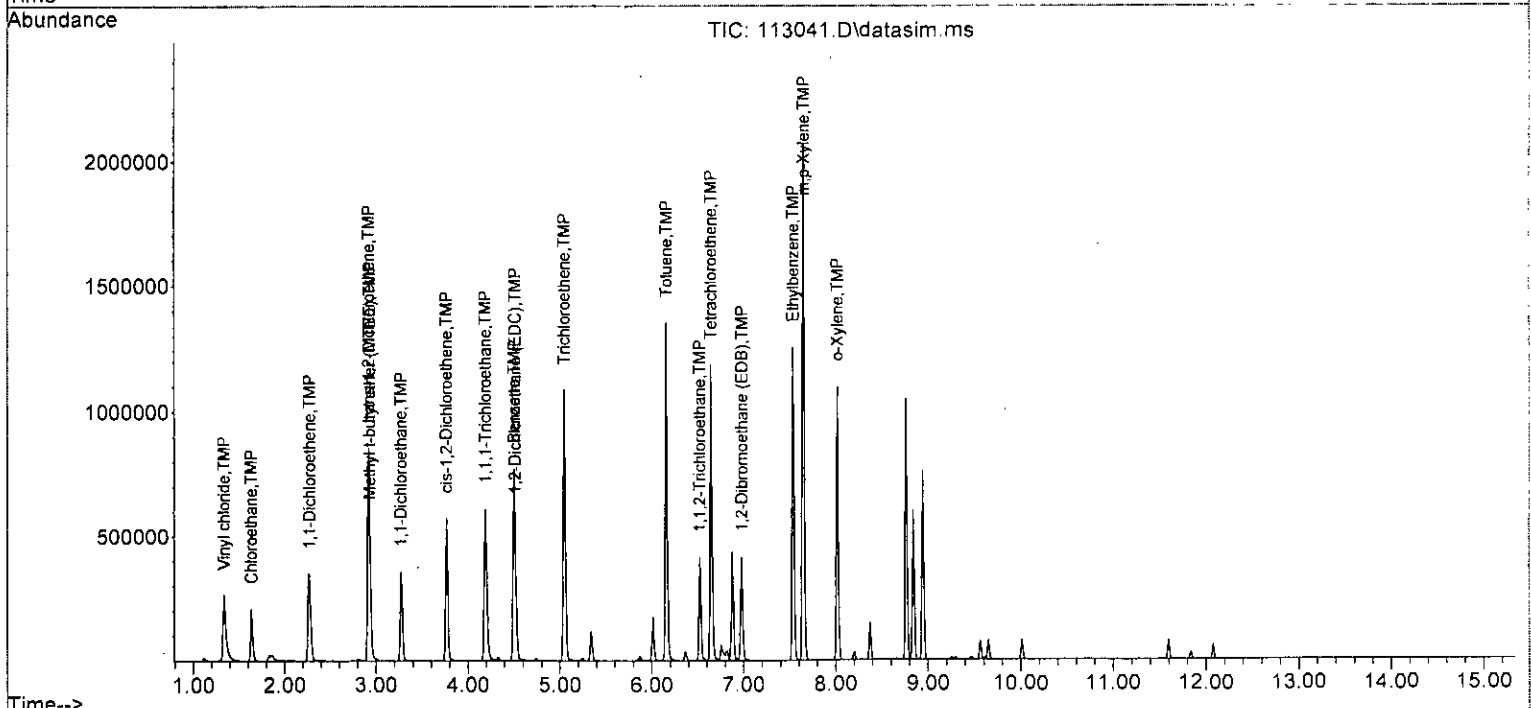
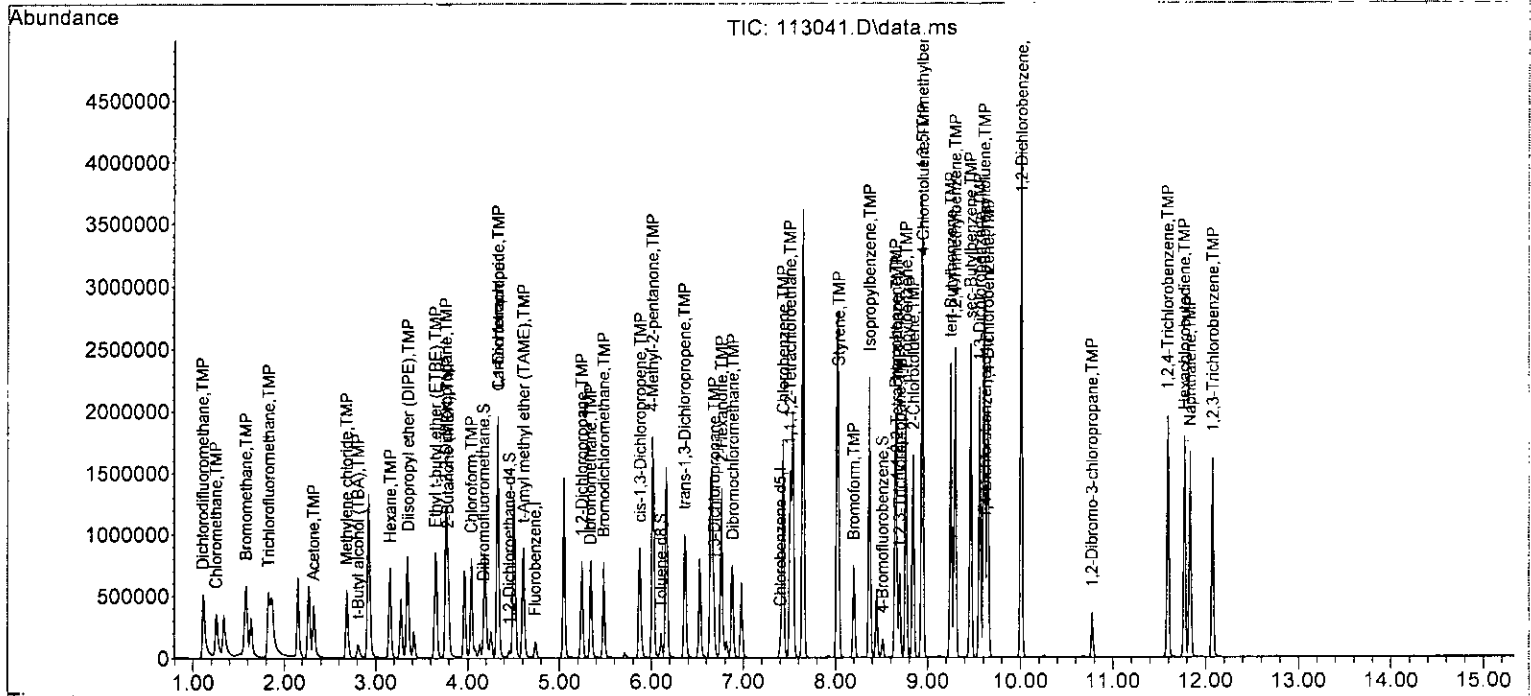
Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	245063	518.133	ppb	92
38) cis-1,3-Dichloropropene	5.88	75	392585	100.287	ppb	96
40] Toluene	6.16	92	716026	99.872	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	365924	99.704	ppb	97
42] 1,1,2-Trichloroethane	6.53	83	200373	99.363	ppb	99
43) 2-Hexanone	6.76	43	753126	515.828	ppb	99
44) 1,3-Dichloropropane	6.68	76	336688	96.567	ppb	96
45] Tetrachloroethene	6.65	164	429493	99.827	ppb	100
46) Dibromochloromethane	6.88	129	461472	105.205	ppb	100
47] 1,2-Dibromoethane (EDB)	6.98	107	335484	103.845	ppb	88
48) Chlorobenzene	7.43	112	967927	99.491	ppb	100
49] Ethylbenzene	7.54	91	1258512	98.717	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.51	131	435717	102.344	ppb	98
51] m,p-Xylene	7.65	106	1104572	197.219	ppb	98
52] o-Xylene	8.02	106	556772	99.033	ppb	99
53) Styrene	8.03	104	861024	98.366	ppb	98
54) Isopropylbenzene	8.37	105	1381231	98.946	ppb	98
55) Bromoform	8.20	173	338291	108.437	ppb	98
58) n-Propylbenzene	8.77	91	1383463	96.793	ppb	99
59) Bromobenzene	8.65	156	528224	101.587	ppb	91
60) 1,3,5-Trimethylbenzene	8.94	105	1157512	99.582	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.66	83	270382	99.874	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	210905	98.729	ppb	98
63) 2-Chlorotoluene	8.84	91	795581	97.977	ppb	95
64) 4-Chlorotoluene	8.95	91	952842	96.967	ppb	99
65) tert-Butylbenzene	9.25	119	1228113	99.671	ppb	98
66) 1,2,4-Trimethylbenzene	9.30	105	1236506	98.876	ppb	98
67) sec-Butylbenzene	9.46	105	1559170	102.787	ppb	100
68) p-Isopropyltoluene	9.61	119	1577642	103.835	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	935655	100.113	ppb	99
70) 1,4-Dichlorobenzene	9.65	146	925416	100.406	ppb	99
71) 1,2-Dichlorobenzene	10.01	146	902819	100.276	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	58221	101.530	ppb	94
73) 1,2,4-Trichlorobenzene	11.59	180	661592	104.782	ppb	99
74) Hexachlorobutadiene	11.77	225	374549	100.664	ppb	99
75) Naphthalene	11.83	128	1293786	105.416	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	525093	105.081	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	100	-0.01
3 S	Dibromofluoromethane	10.000	9.621	3.8	100	0.00
4 TMP	Dichlorodifluoromethane	150.000	153.942	-2.6	100	0.00
5 TMP	Chloromethane	150.000	147.515	1.7	100	0.00
6 TMP	Vinyl chloride	150.000	157.271	-4.8	100	0.00
7 TMP	Bromomethane	150.000	138.922	7.4	100	0.00
8 TMP	Chloroethane	150.000	147.194	1.9	100	0.00
9 TMP	Trichlorofluoromethane	150.000	152.886	-1.9	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	-0.01
11 TMP	Acetone	750.000	784.265	-4.6	100	0.00
12 TMP	1,1-Dichloroethene	150.000	147.070	2.0	100	0.00
13 TMP	Hexane	150.000	148.724	0.9	100	0.00
14 TMP	Methylene chloride	150.000	151.780	-1.2	100	0.00
15 TMP	t-Butyl alcohol (TBA)	750.000	709.522	5.4	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	150.000	142.593	4.9	100	0.00
17 TMP	trans-1,2-Dichloroethene	150.000	143.665	4.2	100	0.00
18 TMP	Diisopropyl ether (DIPE)	150.000	146.620	2.3	100	0.00
19 TMP	1,1-Dichloroethane	150.000	144.070	4.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	150.000	146.981	2.0	100	0.00
21 TMP	2,2-Dichloropropane	150.000	155.771	-3.8	100	0.00
22 TMP	cis-1,2-Dichloroethene	150.000	143.466	4.4	100	0.00
23 TMP	Chloroform	150.000	143.617	4.3	100	0.00
24 TMP	2-Butanone (MEK)	750.000	781.318	-4.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	150.000	144.279	3.8	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	150.000	138.995	7.3	100	0.00
27 TMP	1,1,1-Trichloroethane	150.000	146.055	2.6	100	0.00
28 TMP	1,1-Dichloropropene	150.000	137.634	8.2	100	0.00
29 TMP	Carbon tetrachloride	150.000	151.128	-0.8	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.289	7.1	100	0.00
31 TMP	Benzene	150.000	152.013	-1.3	100	0.00
32 TMP	Trichloroethene	150.000	150.083	-0.1	100	0.00
33 TMP	1,2-Dichloropropane	150.000	151.341	-0.9	100	0.00
34 TMP	Bromodichloromethane	150.000	147.218	1.9	100	0.00
35 S	Toluene-d8	10.000	9.919	0.8	100	0.00
36 TMP	Dibromomethane	150.000	145.874	2.8	100	0.00
37 TMP	4-Methyl-2-pentanone	750.000	749.754	0.0	100	0.00
38 TMP	cis-1,3-Dichloropropene	150.000	149.586	0.3	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	150.000	151.207	-0.8	100	0.00
41 TMP	trans-1,3-Dichloropropene	150.000	153.753	-2.5	100	0.00
42 TMP	1,1,2-Trichloroethane	150.000	150.178	-0.1	100	0.00
43 TMP	2-Hexanone	750.000	740.412	1.3	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	150.000	144.539	3.6	100	0.00
45 TMP Tetrachloroethene	150.000	154.165	-2.8	100	0.00
46 TMP Dibromochloromethane	150.000	162.637	-8.4	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	150.000	153.380	-2.3	100	0.01
48 TMP Chlorobenzene	150.000	153.503	-2.3	100	0.00
49 TMP Ethylbenzene	150.000	147.582	1.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	150.000	157.993	-5.3	100	0.00
51 TMP m,p-Xylene	300.000	297.635	0.8	100	0.00
52 TMP o-Xylene	150.000	150.869	-0.6	100	0.00
53 TMP Styrene	150.000	151.312	-0.9	100	0.00
54 TMP Isopropylbenzene	150.000	152.860	-1.9	100	0.00
55 TMP Bromoform	150.000	169.357	-12.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.822	1.8	100	0.00
58 TMP n-Propylbenzene	150.000	142.000	5.3	100	0.00
59 TMP Bromobenzene	150.000	151.209	-0.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	150.000	147.273	1.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	150.000	142.346	5.1	100	0.00
62 TMP 1,2,3-Trichloropropane	150.000	146.291	2.5	100	0.00
63 TMP 2-Chlorotoluene	150.000	145.432	3.0	100	0.00
64 TMP 4-Chlorotoluene	150.000	142.553	5.0	100	0.00
65 TMP tert-Butylbenzene	150.000	149.449	0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	150.000	148.256	1.2	100	0.00
67 TMP sec-Butylbenzene	150.000	154.864	-3.2	100	0.00
68 TMP p-Isopropyltoluene	150.000	155.869	-3.9	100	0.00
69 TMP 1,3-Dichlorobenzene	150.000	150.725	-0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	150.000	150.690	-0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	150.000	150.648	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	150.000	153.271	-2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	150.000	159.201	-6.1	100	0.00
74 TMP Hexachlorobutadiene	150.000	153.794	-2.5	100	0.00
75 TMP Naphthalene	150.000	158.946	-6.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	150.000	160.751	-7.2	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	-0.01
3 S Dibromofluoromethane	0.319	0.307	3.8	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.598	-2.7	100	0.00
5 TMP Chloromethane	0.386	0.380	1.6	100	0.00
6 TMP Vinyl chloride	0.373	0.391	-4.8	100	0.00
7 TMP Bromomethane	0.385	0.357	7.3	100	0.00
8 TMP Chloroethane	0.200	0.196	2.0	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.035	-2.0	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-0.01
11 TMP Acetone	0.022	0.021	4.5	100	0.00
12 TMP 1,1-Dichloroethene	0.248	0.243	2.0	100	0.00
13 TMP Hexane	0.236	0.226	4.2	100	0.00
14 TMP Methylene chloride	0.247	0.218	11.7	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.021#	4.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.566	5.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.274	0.263	4.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.533	0.521	2.3	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.327	4.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.281	2.1	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.248	16.5	100	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.283	4.4	100	0.00
23 TMP Chloroform	0.441	0.423	4.1	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.098	3.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.551	0.530	3.8	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.282	15.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.456	2.6	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.294	8.1	100	0.00
29 TMP Carbon tetrachloride	0.497	0.501	-0.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	100	0.00
31 TMP Benzene	0.849	0.801	5.7	100	0.00
32 TMP Trichloroethene	0.304	0.304	0.0	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.166	12.2	100	0.00
34 TMP Bromodichloromethane	0.316	0.311	1.6	100	0.00
35 S Toluene-d8	0.899	0.892	0.8	100	0.00
36 TMP Dibromomethane	0.173	0.168	2.9	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.040	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.328	0.3	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.701	2.5	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.365	-2.5	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.196	3.9	100	0.00
43 TMP 2-Hexanone	0.142	0.140	1.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.326	3.6	100	0.00
45 TMP Tetrachloroethene	0.443	0.418	5.6	100	0.00
46 TMP Dibromochloromethane	0.425	0.461	-8.5	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.320	4.5	100	0.01
48 TMP Chlorobenzene	0.943	0.965	-2.3	100	0.00
49 TMP Ethylbenzene	1.560	1.216	22.1#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.435	-5.3	100	0.00
51 TMP m,p-Xylene	0.718	0.539	24.9#	100	0.00
52 TMP o-Xylene	0.611	0.548	10.3	100	0.00
53 TMP Styrene	0.848	0.856	-0.9	100	0.00
54 TMP Isopropylbenzene	1.353	1.379	-1.9	100	0.00
55 TMP Bromoform	0.302	0.341	-12.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.595	1.8	100	0.00
58 TMP n-Propylbenzene	2.257	2.137	5.3	100	0.00
59 TMP Bromobenzene	0.821	0.828	-0.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.802	1.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.406#	6.2	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.329#	2.4	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.243	3.0	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.475	5.0	100	0.00
65 TMP tert-Butylbenzene	1.946	1.939	0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.952	1.2	100	0.00
67 TMP sec-Butylbenzene	2.396	2.473	-3.2	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.494	-3.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.483	-0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.462	-0.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.428	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.093	-2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.058	-6.1	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.603	-2.6	100	0.00
75 TMP Naphthalene	1.938	2.054	-6.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.846	-7.2	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	117219	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	99384	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	63257	10.000	ppb	# 0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	35928	9.621	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	96.20%	
30) 1,2-Dichloroethane-d4	4.45	102	6501	9.289	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	92.90%	
35) Toluene-d8	6.11	98	104513	9.919	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	99.20%	
57) 4-Bromofluorobenzene	8.51	95	37650	9.822	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.20%	
<b>Target Compounds</b>							
							Qvalue
2) Ethanol	2.32	45	3375	No Calib			
4) Dichlorodifluoromethane	1.11	85	1050990	153.942	ppb		95
5) Chloromethane	1.25	50	667273	147.515	ppb		96
6] Vinyl chloride	1.33	62	687955	157.271	ppb		100
7) Bromomethane	1.57	94	627133	138.922	ppb		95
8] Chloroethane	1.64	64	344723	147.194	ppb		97
9) Trichlorofluoromethane	1.83	101	1819681	152.886	ppb		99
10) 2-Propanol	2.32	45	3375	No Calib	#		
11) Acetone	2.32	58	188547	784.265	ppb		87
12] 1,1-Dichloroethene	2.26	96	427393	147.070	ppb		96
13) Hexane	3.16	57	396505	148.724	ppb		92
14) Methylene chloride	2.68	84	382832	151.780	ppb		98
15) t-Butyl alcohol (TBA)	2.81	59	185452	709.522	ppb		98
16] Methyl t-butyl ether (...)	2.92	73	995729	142.593	ppb		99
17] trans-1,2-Dichloroethene	2.91	96	462063	143.665	ppb		98
18) Diisopropyl ether (DIPE)	3.34	45	916868	146.620	ppb		98
19] 1,1-Dichloroethane	3.27	63	575263	144.070	ppb		99
20) Ethyl t-butyl ether (E...)	3.65	87	494774	146.981	ppb		99
21) 2,2-Dichloropropane	3.76	77	435392	155.771	ppb		96
22] cis-1,2-Dichloroethene	3.77	96	498200	143.466	ppb		98
23) Chloroform	4.04	83	743218	143.617	ppb		99
24) 2-Butanone (MEK)	3.78	43	859502	781.318	ppb		97
25) t-Amyl methyl ether (T...)	4.61	73	931321	144.279	ppb		99
26] 1,2-Dichloroethane (EDC)	4.52	62	495455	138.995	ppb		98
27] 1,1,1-Trichloroethane	4.19	97	801042	146.055	ppb		100
28) 1,1-Dichloropropene	4.33	75	516411	137.634	ppb		95
29) Carbon tetrachloride	4.33	117	880569	151.128	ppb		99
31] Benzene	4.50	78	1407955	152.013	ppb		100
32] Trichloroethene	5.05	95	534948	150.083	ppb		98
33) 1,2-Dichloropropane	5.24	63	292552	151.341	ppb		99
34) Bromodichloromethane	5.48	83	545993	147.218	ppb		99
36) Dibromomethane	5.34	93	295279	145.874	ppb		98

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

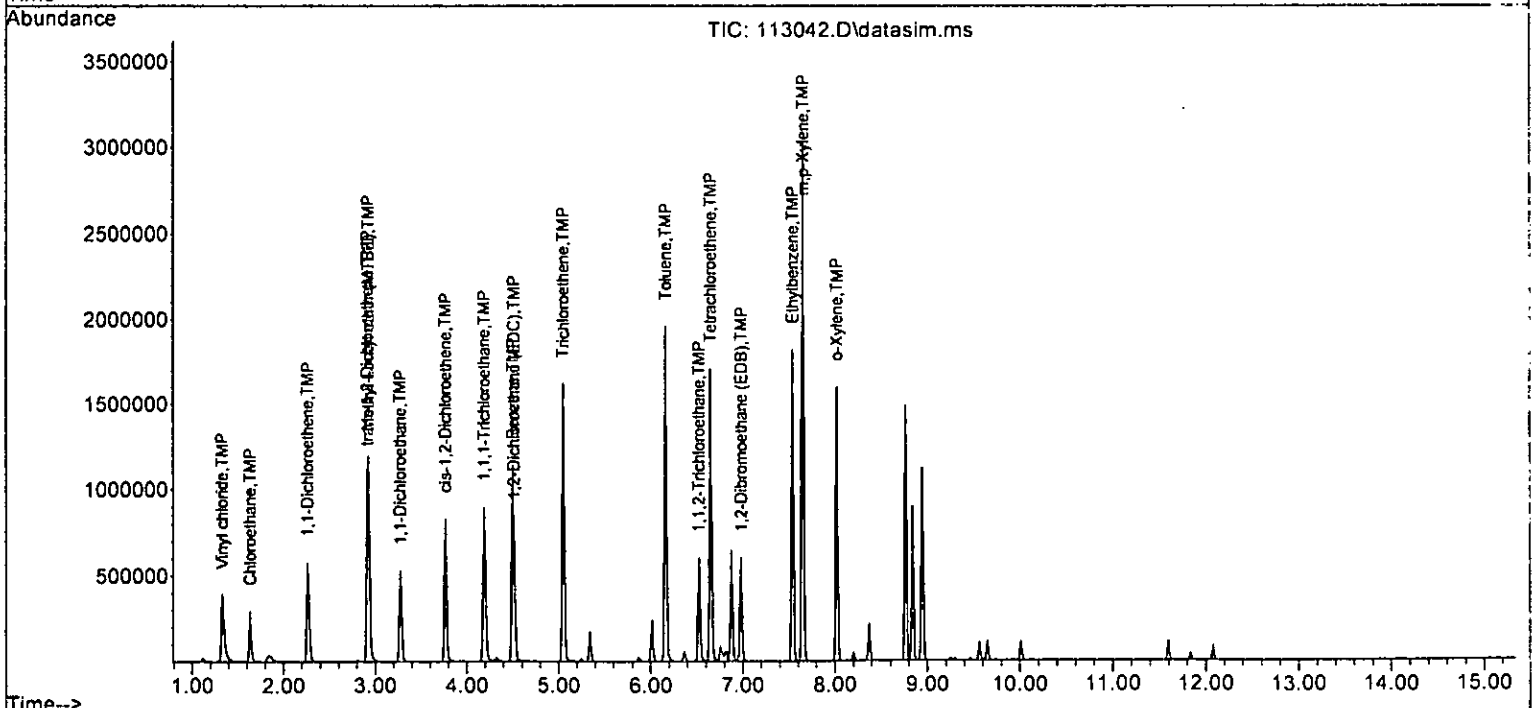
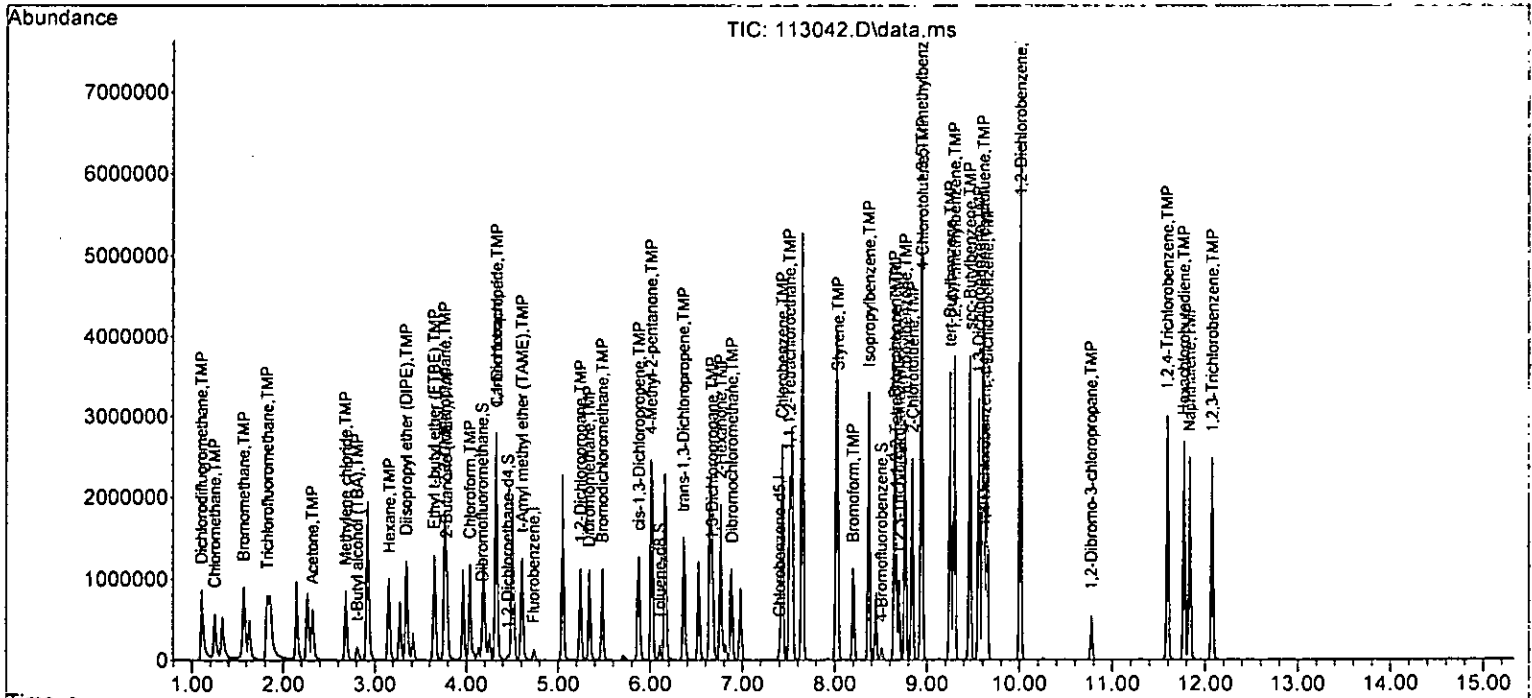
Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	348823	749.754	ppb	93
38) cis-1,3-Dichloropropene	5.88	75	576011	149.586	ppb	96
40] Toluene	6.16	92	1044328	151.207	ppb	97
41) trans-1,3-Dichloropropene	6.36	75	543621	153.753	ppb	96
42] 1,1,2-Trichloroethane	6.53	83	291743	150.178	ppb	100
43) 2-Hexanone	6.76	43	1041427	740.412	ppb	99
44) 1,3-Dichloropropane	6.67	76	485486	144.539	ppb	98
45] Tetrachloroethene	6.65	164	622759	154.165	ppb	100
46) Dibromochloromethane	6.88	129	687259	162.637	ppb	100
47] 1,2-Dibromoethane (EDB)	6.98	107	477345	153.380	ppb	87
48) Chlorobenzene	7.43	112	1438695	153.503	ppb	99
49] Ethylbenzene	7.54	91	1812258	147.582	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.51	131	647996	157.993	ppb	97
51] m,p-Xylene	7.65	106	1605574	297.635	ppb	97
52] o-Xylene	8.02	106	817061	150.869	ppb	99
53) Styrene	8.03	104	1275966	151.312	ppb	98
54) Isopropylbenzene	8.37	105	2055675	152.860	ppb	98
55) Bromoform	8.20	173	508990	169.357	ppb	97
58) n-Propylbenzene	8.77	91	2027700	142.000	ppb	100
59) Bromobenzene	8.65	156	785512	151.209	ppb	90
60) 1,3,5-Trimethylbenzene	8.94	105	1710262	147.273	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.66	83	384989	142.346	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	312216	146.291	ppb	98
63) 2-Chlorotoluene	8.84	91	1179819	145.432	ppb	93
64) 4-Chlorotoluene	8.95	91	1399496	142.553	ppb	98
65) tert-Butylbenzene	9.25	119	1839752	149.449	ppb	98
66) 1,2,4-Trimethylbenzene	9.30	105	1852317	148.256	ppb	97
67) sec-Butylbenzene	9.46	105	2346929	154.864	ppb	100
68) p-Isopropyltoluene	9.61	119	2366037	155.869	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	1407356	150.725	ppb	99
70) 1,4-Dichlorobenzene	9.65	146	1387577	150.690	ppb	98
71) 1,2-Dichlorobenzene	10.01	146	1355064	150.648	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	87809	153.271	ppb	94
73) 1,2,4-Trichlorobenzene	11.59	180	1004258	159.201	ppb	99
74) Hexachlorobutadiene	11.77	225	571703	153.794	ppb	99
75) Naphthalene	11.83	128	1948939	158.946	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	802525	160.751	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	100	0.01
3 S Dibromofluoromethane	10.000	9.568	4.3	100	0.00
4 TMP Dichlorodifluoromethane	200.000	186.745	6.6	100	0.02
5 TMP Chloromethane	200.000	180.578	9.7	100	0.01
6 TMP Vinyl chloride	200.000	191.884	4.1	100	0.02
7 TMP Bromomethane	200.000	171.730	14.1	100	0.02
8 TMP Chloroethane	200.000	181.174	9.4	100	0.00
9 TMP Trichlorofluoromethane	200.000	186.595	6.7	100	0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.01
11 TMP Acetone	1000.000	946.210	5.4	100	0.01
12 TMP 1,1-Dichloroethene	200.000	182.556	8.7	100	0.02
13 TMP Hexane	200.000	198.246	0.9	100	0.00
14 TMP Methylene chloride	200.000	199.000	0.5	100	0.01
15 TMP t-Butyl alcohol (TBA)	1000.000	888.173	11.2	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	200.000	174.426	12.8	100	0.01
17 TMP trans-1,2-Dichloroethene	200.000	179.149	10.4	100	0.01
18 TMP Diisopropyl ether (DIPE)	200.000	180.863	9.6	100	0.00
19 TMP 1,1-Dichloroethane	200.000	177.819	11.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	200.000	182.578	8.7	100	0.00
21 TMP 2,2-Dichloropropane	200.000	179.541	10.2	100	0.01
22 TMP cis-1,2-Dichloroethene	200.000	177.244	11.4	100	0.01
23 TMP Chloroform	200.000	178.043	11.0	100	0.00
24 TMP 2-Butanone (MEK)	1000.000	968.069	3.2	100	0.01
25 TMP t-Amyl methyl ether (TAME)	200.000	177.996	11.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	200.000	169.882	15.1	100	0.01
27 TMP 1,1,1-Trichloroethane	200.000	179.141	10.4	100	0.00
28 TMP 1,1-Dichloropropene	200.000	174.020	13.0	100	0.00
29 TMP Carbon tetrachloride	200.000	188.584	5.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.243	-2.4	100	0.01
31 TMP Benzene	200.000	187.627	6.2	100	0.00
32 TMP Trichloroethene	200.000	169.826	15.1	100	0.00
33 TMP 1,2-Dichloropropane	200.000	189.233	5.4	100	0.00
34 TMP Bromodichloromethane	200.000	182.228	8.9	100	0.00
35 S Toluene-d8	10.000	10.207	-2.1	100	0.00
36 TMP Dibromomethane	200.000	181.966	9.0	100	0.01
37 TMP 4-Methyl-2-pentanone	1000.000	926.619	7.3	100	0.01
38 TMP cis-1,3-Dichloropropene	200.000	188.824	5.6	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	200.000	186.319	6.8	100	0.00
41 TMP trans-1,3-Dichloropropene	200.000	186.091	7.0	100	0.00
42 TMP 1,1,2-Trichloroethane	200.000	183.562	8.2	100	0.00
43 TMP 2-Hexanone	1000.000	894.969	10.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	200.000	176.483	11.8	100	0.01
45 TMP Tetrachloroethene	200.000	196.750	1.6	100	0.00
46 TMP Dibromochloromethane	200.000	197.992	1.0	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	200.000	188.407	5.8	100	0.01
48 TMP Chlorobenzene	200.000	187.989	6.0	100	0.00
49 TMP Ethylbenzene	200.000	179.962	10.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	200.000	192.113	3.9	100	0.00
51 TMP m,p-Xylene	400.000	363.499	9.1	100	0.00
52 TMP o-Xylene	200.000	183.452	8.3	100	0.00
53 TMP Styrene	200.000	184.517	7.7	100	0.00
54 TMP Isopropylbenzene	200.000	187.037	6.5	100	0.00
55 TMP Bromoform	200.000	209.783	-4.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.667	3.3	100	0.00
58 TMP n-Propylbenzene	200.000	178.180	10.9	100	0.00
59 TMP Bromobenzene	200.000	189.676	5.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	200.000	186.632	6.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	200.000	202.626	-1.3	100	0.00
62 TMP 1,2,3-Trichloropropane	200.000	182.562	8.7	100	0.00
63 TMP 2-Chlorotoluene	200.000	181.804	9.1	100	0.00
64 TMP 4-Chlorotoluene	200.000	179.365	10.3	100	0.00
65 TMP tert-Butylbenzene	200.000	187.546	6.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	200.000	187.456	6.3	100	0.00
67 TMP sec-Butylbenzene	200.000	194.980	2.5	100	0.00
68 TMP p-Isopropyltoluene	200.000	197.073	1.5	100	0.00
69 TMP 1,3-Dichlorobenzene	200.000	188.578	5.7	100	0.00
70 TMP 1,4-Dichlorobenzene	200.000	188.964	5.5	100	0.00
71 TMP 1,2-Dichlorobenzene	200.000	188.064	6.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	200.000	191.540	4.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	200.000	204.783	-2.4	100	0.00
74 TMP Hexachlorobutadiene	200.000	192.410	3.8	100	0.00
75 TMP Naphthalene	200.000	201.583	-0.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	200.000	205.372	-2.7	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.01
3 S Dibromofluoromethane	0.319	0.305	4.4	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.544	6.5	100	0.02
5 TMP Chloromethane	0.386	0.348	9.8	100	0.01
6 TMP Vinyl chloride	0.373	0.358	4.0	100	0.02
7 TMP Bromomethane	0.385	0.331	14.0	100	0.02
8 TMP Chloroethane	0.200	0.181	9.5	100	0.00
9 TMP Trichlorofluoromethane	1.015	0.947	6.7	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.01
11 TMP Acetone	0.022	0.018	18.2	100	0.01
12 TMP 1,1-Dichloroethene	0.248	0.226	8.9	100	0.02
13 TMP Hexane	0.236	0.225	4.7	100	0.00
14 TMP Methylene chloride	0.247	0.206	16.6	100	0.01
15 TMP t-Butyl alcohol (TBA)	0.022	0.020#	9.1	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.520	12.8	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.246	10.2	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.482#	9.6	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.303	11.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.262	8.7	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.214	27.9#	100	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.263	11.1	100	0.01
23 TMP Chloroform	0.441	0.393	10.9	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.086	15.7	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.490#	11.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.258	22.8#	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.419	10.5	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.279	12.8	100	0.00
29 TMP Carbon tetrachloride	0.497	0.469	5.6	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.01
31 TMP Benzene	0.849	0.741	12.7	100	0.00
32 TMP Trichloroethene	0.304	0.258	15.1	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.156	17.5	100	0.00
34 TMP Bromodichloromethane	0.316	0.288	8.9	100	0.00
35 S Toluene-d8	0.899	0.917	-2.0	100	0.00
36 TMP Dibromomethane	0.173	0.157	9.2	100	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.037	7.5	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.310	5.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.647	10.0	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.331	7.0	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.179	12.3	100	0.00
43 TMP 2-Hexanone	0.142	0.127	10.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.298#	11.8	100	0.01
45 TMP Tetrachloroethene	0.443	0.392	11.5	100	0.00
46 TMP Dibromochloromethane	0.425	0.421	0.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.295	11.9	100	0.01
48 TMP Chlorobenzene	0.943	0.886	6.0	100	0.00
49 TMP Ethylbenzene	1.560	1.112	28.7#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.396	4.1	100	0.00
51 TMP m,p-Xylene	0.718	0.493	31.3#	100	0.00
52 TMP o-Xylene	0.611	0.500	18.2	100	0.00
53 TMP Styrene	0.848	0.783	7.7	100	0.00
54 TMP Isopropylbenzene	1.353	1.265	6.5	100	0.00
55 TMP Bromoform	0.302	0.317	-5.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.586	3.3	100	0.00
58 TMP n-Propylbenzene	2.257	2.011	10.9	100	0.00
59 TMP Bromobenzene	0.821	0.779	5.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.713	6.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.433#	0.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.308#	8.6	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.166	9.0	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.392	10.3	100	0.00
65 TMP tert-Butylbenzene	1.946	1.825	6.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.851	6.3	100	0.00
67 TMP sec-Butylbenzene	2.396	2.336	2.5	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.365	1.5	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.392	5.7	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.375	5.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.337	6.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.087	4.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.021	-2.4	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.565	3.9	100	0.00
75 TMP Naphthalene	1.938	1.954	-0.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.810	-2.7	100	0.00

(#) = Out of Range

SPCC's out = 7 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCM513

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.75	96	117120	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	100115	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	62157	10.000	ppb	# 0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	35699	9.568	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	95.70%	
30) 1,2-Dichloroethane-d4	4.47	102	7163	10.243	ppb	0.01	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	102.40%	
35) Toluene-d8	6.11	98	107450	10.207	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	102.10%	
57) 4-Bromofluorobenzene	8.51	95	36410	9.667	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	96.70%	
Target Compounds							
2) Ethanol	2.34	45	3910	No Calib			Qvalue
4) Dichlorodifluoromethane	1.13	85	1273859	186.745	ppb		96
5) Chloromethane	1.26	50	816144	180.578	ppb		97
6] Vinyl chloride	1.35	62	838658	191.884	ppb		95
7) Bromomethane	1.59	94	774583	171.730	ppb		98
8] Chloroethane	1.65	64	423945	181.174	ppb		91
9) Trichlorofluoromethane	1.84	101	2219014	186.595	ppb		99
10) 2-Propanol	2.34	45	3910	No Calib			
11) Acetone	2.33	58	214203	946.210	ppb		99
12] 1,1-Dichloroethene	2.28	96	530068	182.556	ppb		84
13) Hexane	3.17	57	527914	198.246	ppb		93
14) Methylene chloride	2.69	84	482218	199.000	ppb		96
15) t-Butyl alcohol (TBA)	2.82	59	231951	888.173	ppb		96
16] Methyl t-butyl ether (...)	2.93	73	1216988	174.426	ppb		98
17] trans-1,2-Dichloroethene	2.92	96	575701	179.149	ppb		97
18) Diisopropyl ether (DIPE)	3.35	45	1130044	180.863	ppb		98
19] 1,1-Dichloroethane	3.28	63	709422	177.819	ppb		98
20) Ethyl t-butyl ether (E...)	3.66	87	614083	182.578	ppb		96
21) 2,2-Dichloropropane	3.77	77	501274	179.541	ppb		99
22] cis-1,2-Dichloroethene	3.78	96	614975	177.244	ppb		93
23) Chloroform	4.04	83	920593	178.043	ppb		98
24) 2-Butanone (MEK)	3.79	43	1007272	968.069	ppb		96
25) t-Amyl methyl ether (T...)	4.61	73	1147998	177.996	ppb		98
26] 1,2-Dichloroethane (EDC)	4.53	62	605028	169.882	ppb		94
27] 1,1,1-Trichloroethane	4.19	97	981676	179.141	ppb		94
28) 1,1-Dichloropropene	4.33	75	652381	174.020	ppb		98
29) Carbon tetrachloride	4.33	117	1097884	188.584	ppb		99
31] Benzene	4.50	78	1736323	187.627	ppb		95
32] Trichloroethene	5.05	95	604810	169.826	ppb		86
33) 1,2-Dichloropropane	5.24	63	365403	189.233	ppb		99
34) Bromodichloromethane	5.48	83	675265	182.228	ppb		98
36) Dibromomethane	5.35	93	368026	181.966	ppb		88

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

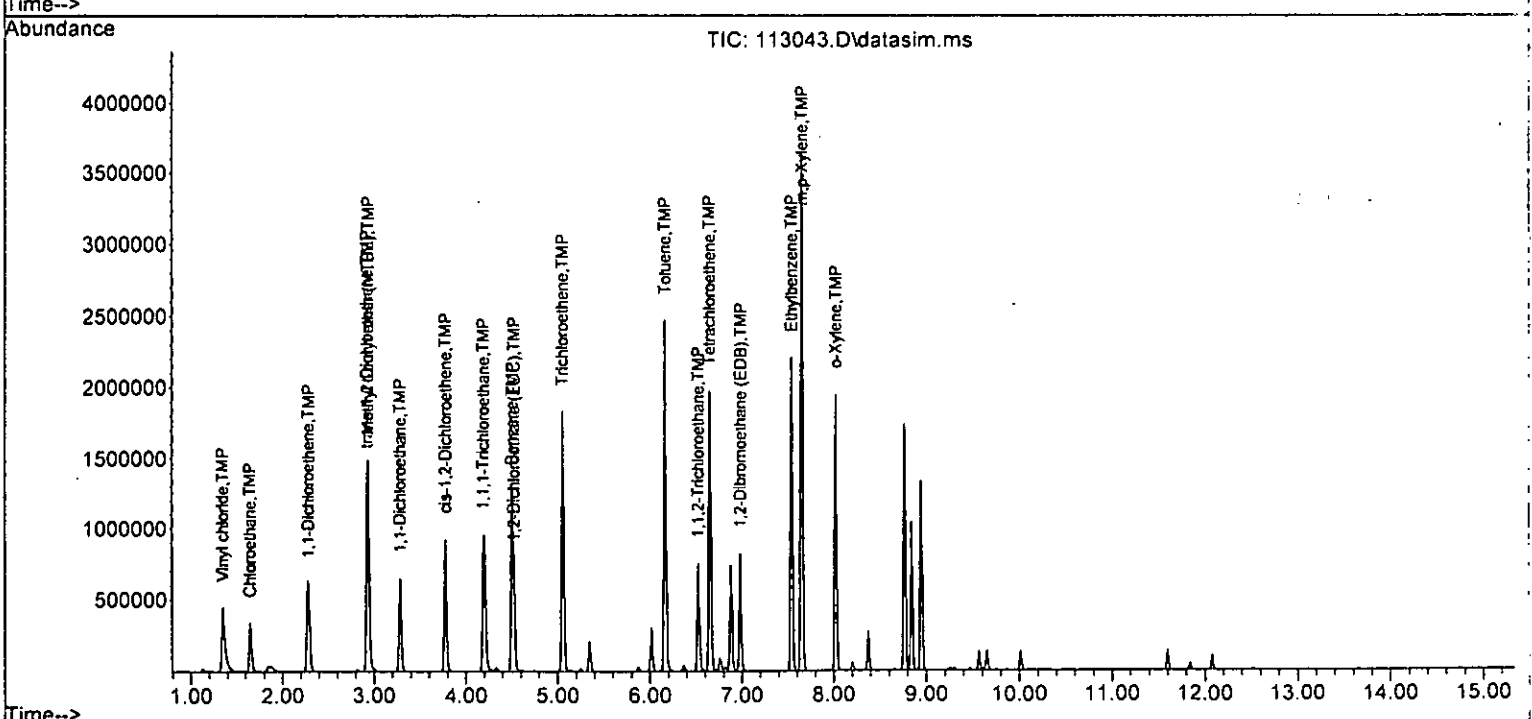
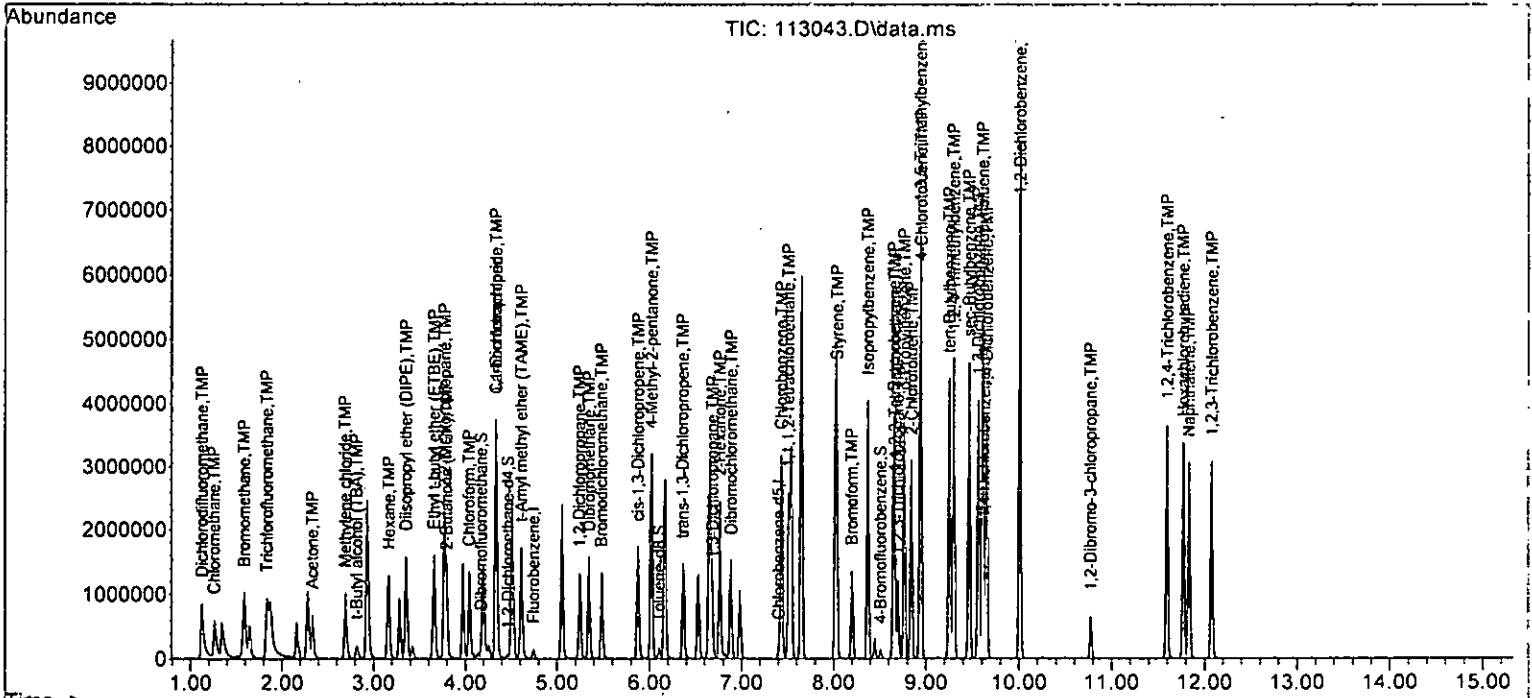
Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIion	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	430745	926.619	ppb	85
38) cis-1,3-Dichloropropene	5.88	75	726492	188.824	ppb	96
40] Toluene	6.16	92	1296292	186.319	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	662797	186.091	ppb	95
42] 1,1,2-Trichloroethane	6.53	83	359215	183.562	ppb	96
43) 2-Hexanone	6.76	43	1268078	894.969	ppb	99
44) 1,3-Dichloropropane	6.68	76	597144	176.483	ppb	98
45] Tetrachloroethene	6.65	164	784289	196.750	ppb	99
46) Dibromochloromethane	6.88	129	842817	197.992	ppb	100
47] 1,2-Dibromoethane (EDB)	6.98	107	590658	188.407	ppb	89
48) Chlorobenzene	7.43	112	1774870	187.989	ppb	100
49] Ethylbenzene	7.54	91	2225991	179.962	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	793736	192.113	ppb	98
51] m,p-Xylene	7.65	106	1975148	363.499	ppb	98
52] o-Xylene	8.02	106	1000800	183.452	ppb	99
53) Styrene	8.03	104	1567416	184.517	ppb	99
54) Isopropylbenzene	8.37	105	2533805	187.037	ppb	98
55) Bromoform	8.20	173	635124	209.783	ppb	97
58) n-Propylbenzene	8.77	91	2500105	178.180	ppb	99
59) Bromobenzene	8.65	156	968212	189.676	ppb	91
60) 1,3,5-Trimethylbenzene	8.94	105	2129640	186.632	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.66	83	538477	202.626	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	382851	182.562	ppb	98
63) 2-Chlorotoluene	8.84	91	1449239	181.804	ppb	96
64) 4-Chlorotoluene	8.95	91	1730265	179.365	ppb	99
65) tert-Butylbenzene	9.25	119	2268586	187.546	ppb	98
66) 1,2,4-Trimethylbenzene	9.30	105	2301350	187.456	ppb	98
67) sec-Butylbenzene	9.46	105	2903505	194.980	ppb	99
68) p-Isopropyltoluene	9.61	119	2939476	197.073	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	1730178	188.578	ppb	99
70) 1,4-Dichlorobenzene	9.65	146	1709748	188.964	ppb	99
71) 1,2-Dichlorobenzene	10.01	146	1662203	188.064	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	107825	191.540	ppb	91
73) 1,2,4-Trichlorobenzene	11.60	180	1269334	204.783	ppb	99
74) Hexachlorobutadiene	11.77	225	702813	192.410	ppb	99
75) Naphthalene	11.83	128	2428759	201.583	ppb	99
76) 1,2,3-Trichlorobenzene	12.08	180	1007461	205.372	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	124698	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	103846	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	61463	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	39205	9.869	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.70%
30) 1,2-Dichloroethane-d4	4.45	102	6939	9.320	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	93.20%
35) Toluene-d8	6.11	98	106988	9.545	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	95.50%
57) 4-Bromofluorobenzene	8.51	95	37298	10.014	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	100.10%
Target Compounds						
						Qvalue
2) Ethanol	2.33	45	213	No Calib		.
4) Dichlorodifluoromethane	1.12	85	59465	8.188	ppb	96
5) Chloromethane	1.26	50	43638	9.068	ppb	98
6] Vinyl chloride	1.34	62	47873	10.288	ppb	98
7) Bromomethane	1.58	94	50415	10.498	ppb	90
8] Chloroethane	1.65	64	24653	9.895	ppb	98
9) Trichlorofluoromethane	1.83	101	119782	9.460	ppb	98
10) 2-Propanol	2.33	45	213	No Calib	#	.
11) Acetone	2.33	58	13390	43.221	ppb	93
12] 1,1-Dichloroethene	2.27	96	32364	10.469	ppb	87
13) Hexane	3.16	57	28078	9.717	ppb	90
14) Methylene chloride	2.68	84	30442	9.551	ppb	93
15) t-Butyl alcohol (TBA)	2.82	59	13874	49.897	ppb	98
16] Methyl t-butyl ether (...)	2.93	73	77423	10.422	ppb	96
17] trans-1,2-Dichloroethene	2.92	96	35199	10.288	ppb	89
18) Diisopropyl ether (DIPE)	3.35	45	70925	10.662	ppb	95
19] 1,1-Dichloroethane	3.27	63	45012	10.597	ppb	96
20) Ethyl t-butyl ether (E...)	3.66	87	36969	10.324	ppb	96
21) 2,2-Dichloropropane	3.76	77	28424	9.270	ppb	94
22] cis-1,2-Dichloroethene	3.77	96	37366	10.115	ppb	96
23) Chloroform	4.04	83	53852	9.782	ppb	96
24) 2-Butanone (MEK)	3.79	43	62726	44.840	ppb	96
25) t-Amyl methyl ether (T...)	4.61	73	69737	10.156	ppb	99
26] 1,2-Dichloroethane (EDC)	4.53	62	38759	10.204	ppb	93
27] 1,1,1-Trichloroethane	4.19	97	61168	10.484	ppb	98
28) 1,1-Dichloropropene	4.33	75	36980	9.265	ppb	95
29) Carbon tetrachloride	4.33	117	63400	10.228	ppb	97
31] Benzene	4.50	78	104054	10.548	ppb	98
32] Trichloroethene	5.05	95	41620	10.976	ppb	94
33) 1,2-Dichloropropane	5.24	63	22401	10.724	ppb	100
34) Bromodichloromethane	5.48	83	39339	9.971	ppb	98
36) Dibromomethane	5.35	93	22161	10.291	ppb	# 83

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

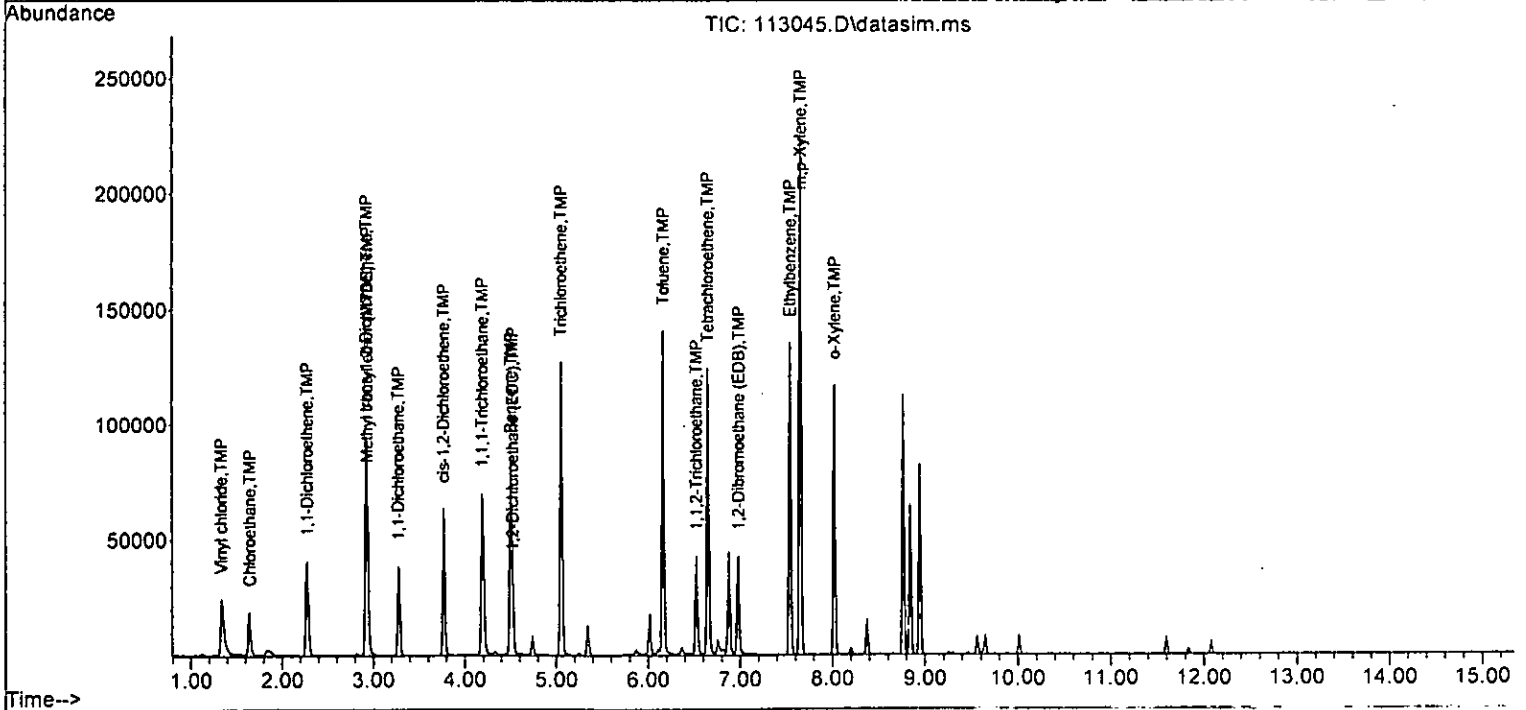
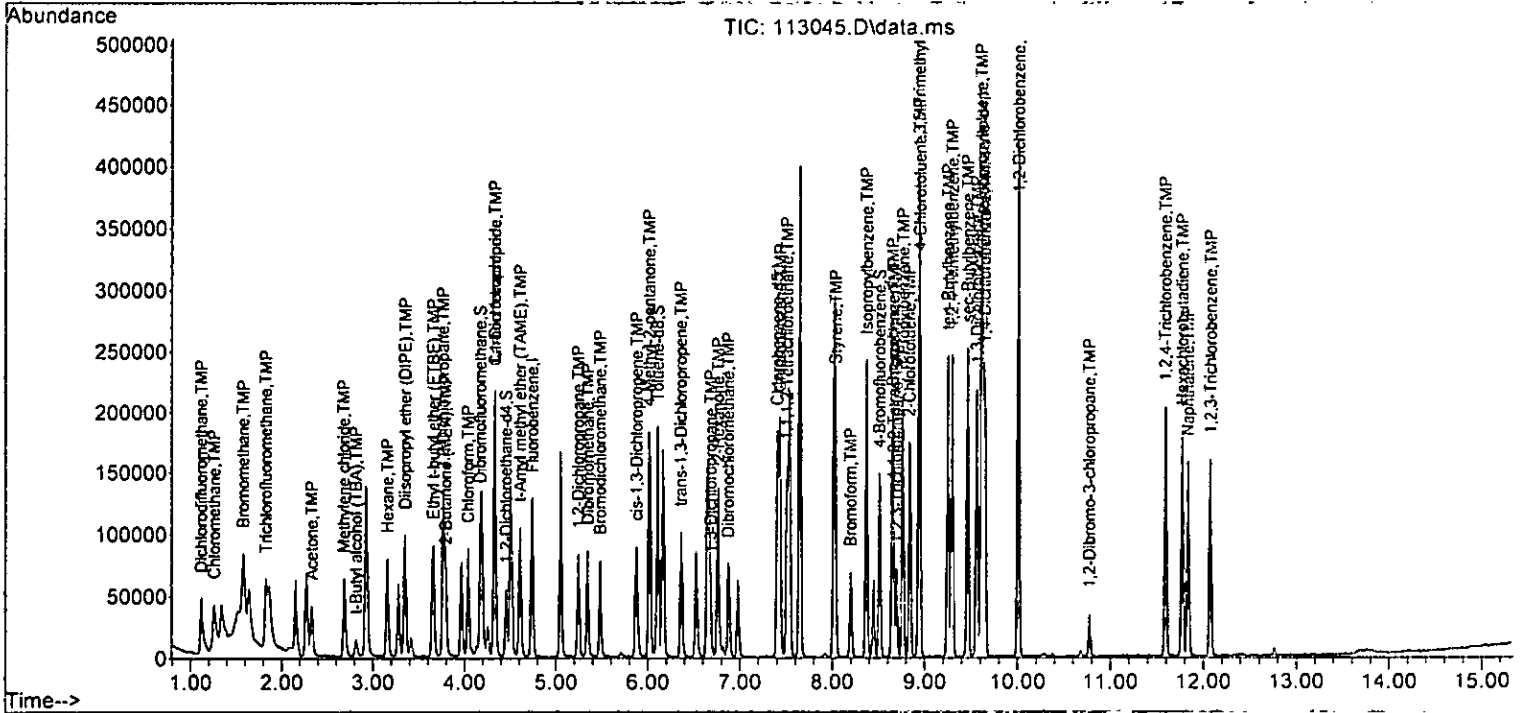
Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	25246	51.009	ppb	94
38) cis-1,3-Dichloropropene	5.88	75	39247	9.581	ppb	98
40] Toluene	6.16	92	74463	10.312	ppb	100
41) trans-1,3-Dichloropropene	6.36	75	36839	9.972	ppb	99
42] 1,1,2-Trichloroethane	6.53	83	20856	10.267	ppb	99
43) 2-Hexanone	6.76	43	75374	51.285	ppb	98
44) 1,3-Dichloropropane	6.68	76	36229	10.323	ppb	98
45] Tetrachloroethene	6.65	164	45273	10.027	ppb	99
46) Dibromochloromethane	6.87	129	45473	10.299	ppb	99
47] 1,2-Dibromoethane (EDB)	6.98	107	34852	10.705	ppb	88
48) Chlorobenzene	7.43	112	101280	10.342	ppb	99
49] Ethylbenzene	7.54	91	136887	10.622	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	43776	10.215	ppb	95
51] m,p-Xylene	7.65	106	119589	21.103	ppb	100
52] o-Xylene	8.02	106	58931	10.393	ppb	98
53) Styrene	8.03	104	90973	10.325	ppb	98
54) Isopropylbenzene	8.37	105	147220	10.477	ppb	100
55) Bromoform	8.20	173	31070	9.894	ppb	98
58) n-Propylbenzene	8.77	91	146999	10.595	ppb	100
59) Bromobenzene	8.65	156	53090	10.518	ppb	91
60) 1,3,5-Trimethylbenzene	8.94	105	117493	10.413	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.66	83	25685	9.761	ppb	97
62) 1,2,3-Trichloropropane	8.70	75	21906	10.564	ppb	95
63) 2-Chlorotoluene	8.84	91	84090	10.668	ppb	98
64) 4-Chlorotoluene	8.95	91	100977	10.586	ppb	99
65) tert-Butylbenzene	9.25	119	122831	10.269	ppb	97
66) 1,2,4-Trimethylbenzene	9.30	105	123379	10.163	ppb	99
67) sec-Butylbenzene	9.46	105	155368	10.551	ppb	99
68) p-Isopropyltoluene	9.61	119	152119	10.314	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	94080	10.370	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	97689	10.919	ppb	98
71) 1,2-Dichlorobenzene	10.01	146	91556	10.476	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	5725	10.285	ppb	97
73) 1,2,4-Trichlorobenzene	11.59	180	65202	10.638	ppb	98
74) Hexachlorobutadiene	11.77	225	36810	10.191	ppb	99
75) Naphthalene	11.83	128	123128	10.335	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	50934	10.500	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M





Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	108	0.01
2 TMP	Ethanol	-1.000	0.000	0.0	51	0.00
3 S	Dibromofluoromethane	10.000	9.869	1.3	102	0.00
4 TMP	Dichlorodifluoromethane	10.000	8.188	18.1	86	0.00
5 TMP	Chloromethane	10.000	9.068	9.3	94	0.01
6 TMP	Vinyl chloride	10.000	10.288	-2.9	96	0.00
7 TMP	Bromomethane	10.000	10.498	-5.0	101	0.00
8 TMP	Chloroethane	10.000	9.895	1.1	98	0.00
9 TMP	Trichlorofluoromethane	10.000	9.460	5.4	97	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	50.000	43.221	13.6	99	0.01
12 TMP	1,1-Dichloroethene	10.000	10.469	-4.7	103	0.01
13 TMP	Hexane	10.000	9.717	2.8	98	0.00
14 TMP	Methylene chloride	10.000	9.551	4.5	103	0.00
15 TMP	t-Butyl alcohol (TBA)	50.000	49.897	0.2	106	0.01
16 TMP	Methyl t-butyl ether (MTBE)	10.000	10.422	-4.2	103	0.01
17 TMP	trans-1,2-Dichloroethene	10.000	10.288	-2.9	103	0.01
18 TMP	Diisopropyl ether (DIPE)	10.000	10.662	-6.6	101	0.00
19 TMP	1,1-Dichloroethane	10.000	10.597	-6.0	101	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	10.000	10.324	-3.2	106	0.00
21 TMP	2,2-Dichloropropane	10.000	9.270	7.3	92	0.00
22 TMP	cis-1,2-Dichloroethene	10.000	10.115	-1.2	99	0.00
23 TMP	Chloroform	10.000	9.782	2.2	101	0.00
24 TMP	2-Butanone (MEK)	50.000	44.840	10.3	98	0.01
25 TMP	t-Amyl methyl ether (TAME)	10.000	10.156	-1.6	102	0.00
26 TMP	1,2-Dichloroethane (EDC)	10.000	10.204	-2.0	100	0.01
27 TMP	1,1,1-Trichloroethane	10.000	10.484	-4.8	104	0.00
28 TMP	1,1-Dichloropropene	10.000	9.265	7.3	97	0.00
29 TMP	Carbon tetrachloride	10.000	10.228	-2.3	109	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.320	6.8	98	0.00
31 TMP	Benzene	10.000	10.548	-5.5	101	0.00
32 TMP	Trichloroethene	10.000	10.976	-9.8	106	0.00
33 TMP	1,2-Dichloropropane	10.000	10.724	-7.2	103	0.00
34 TMP	Bromodichloromethane	10.000	9.971	0.3	103	0.00
35 S	Toluene-d8	10.000	9.545	4.6	98	0.00
36 TMP	Dibromomethane	10.000	10.291	-2.9	104	0.01
37 TMP	4-Methyl-2-pentanone	50.000	51.009	-2.0	106	0.00
38 TMP	cis-1,3-Dichloropropene	10.000	9.581	4.2	101	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
40 TMP	Toluene	10.000	10.312	-3.1	101	0.00
41 TMP	trans-1,3-Dichloropropene	10.000	9.972	0.3	102	0.00
42 TMP	1,1,2-Trichloroethane	10.000	10.267	-2.7	100	0.00
43 TMP	2-Hexanone	50.000	51.285	-2.6	103	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.323	-3.2	101	0.01
45 TMP Tetrachloroethene	10.000	10.027	-0.3	101	0.00
46 TMP Dibromochloromethane	10.000	10.299	-3.0	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.705	-7.1	101	0.01
48 TMP Chlorobenzene	10.000	10.342	-3.4	103	0.00
49 TMP Ethylbenzene	10.000	10.622	-6.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.215	-2.1	103	0.00
51 TMP m,p-Xylene	20.000	21.103	-5.5	100	0.00
52 TMP o-Xylene	10.000	10.393	-3.9	101	0.00
53 TMP Styrene	10.000	10.325	-3.2	103	0.00
54 TMP Isopropylbenzene	10.000	10.477	-4.8	104	0.00
55 TMP Bromoform	10.000	9.894	1.1	100	0.00
-----					
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	94	0.00
57 S 4-Bromofluorobenzene	10.000	10.014	-0.1	94	0.00
58 TMP n-Propylbenzene	10.000	10.595	-6.0	101	0.00
59 TMP Bromobenzene	10.000	10.518	-5.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.413	-4.1	101	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.761	2.4	94	0.00
62 TMP 1,2,3-Trichloropropane	10.000	10.564	-5.6	99	0.00
63 TMP 2-Chlorotoluene	10.000	10.668	-6.7	101	0.00
64 TMP 4-Chlorotoluene	10.000	10.586	-5.9	100	0.00
65 TMP tert-Butylbenzene	10.000	10.269	-2.7	99	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.163	-1.6	100	0.00
67 TMP sec-Butylbenzene	10.000	10.551	-5.5	101	0.00
68 TMP p-Isopropyltoluene	10.000	10.314	-3.1	99	0.00
69 TMP 1,3-Dichlorobenzene	10.000	10.370	-3.7	99	0.00
70 TMP 1,4-Dichlorobenzene	10.000	10.919	-9.2	104	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.476	-4.8	102	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	10.285	-2.9	104	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	10.638	-6.4	102	0.00
74 TMP Hexachlorobutadiene	10.000	10.191	-1.9	101	0.00
75 TMP Naphthalene	10.000	10.335	-3.4	101	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.500	-5.0	104	0.00

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	108	0.01
2 TMP Ethanol	0.000	0.000#	0.0	51	0.00
3 S Dibromofluoromethane	0.319	0.314	1.6	102	0.00
4 TMP Dichlorodifluoromethane	0.582	0.477	18.0	86	0.00
5 TMP Chloromethane	0.386	0.350	9.3	94	0.01
6 TMP Vinyl chloride	0.373	0.384	-2.9	96	0.00
7 TMP Bromomethane	0.385	0.404	-4.9	101	0.00
8 TMP Chloroethane	0.200	0.198	1.0	98	0.00
9 TMP Trichlorofluoromethane	1.015	0.961	5.3	97	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.021	4.5	99	0.01
12 TMP 1,1-Dichloroethene	0.248	0.260	-4.8	103	0.01
13 TMP Hexane	0.236	0.225	4.7	98	0.00
14 TMP Methylene chloride	0.247	0.244	1.2	103	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.022#	0.0	106	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.621	-4.2	103	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.282	-2.9	103	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.569	-6.8	101	0.00
19 TMP 1,1-Dichloroethane	0.341	0.361	-5.9	101	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.296	-3.1	106	0.00
21 TMP 2,2-Dichloropropane	0.297	0.228	23.2#	92	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.300	-1.4	99	0.00
23 TMP Chloroform	0.441	0.432	2.0	101	0.00
24 TMP 2-Butanone (MEK)	0.102	0.101	1.0	98	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.559	-1.5	102	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.311	6.9	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.491	-4.9	104	0.00
28 TMP 1,1-Dichloropropene	0.320	0.297	7.2	97	0.00
29 TMP Carbon tetrachloride	0.497	0.508	-2.2	109	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.056	6.7	98	0.00
31 TMP Benzene	0.849	0.834	1.8	101	0.00
32 TMP Trichloroethene	0.304	0.334	-9.9	106	0.00
33 TMP 1,2-Dichloropropane	0.189	0.180	4.8	103	0.00
34 TMP Bromodichloromethane	0.316	0.315	0.3	103	0.00
35 S Toluene-d8	0.899	0.858	4.6	98	0.00
36 TMP Dibromomethane	0.173	0.178	-2.9	104	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.040	0.0	106	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.315	4.3	101	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
40 TMP Toluene	0.719	0.717	0.3	101	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.355	0.3	102	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.201	1.5	100	0.00
43 TMP 2-Hexanone	0.142	0.145	-2.1	103	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.349	-3.3	101	0.01
45 TMP Tetrachloroethene	0.443	0.436	1.6	101	0.00
46 TMP Dibromochloromethane	0.425	0.438	-3.1	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.336	-0.3	101	0.01
48 TMP Chlorobenzene	0.943	0.975	-3.4	103	0.00
49 TMP Ethylbenzene	1.560	1.318	15.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.422	-2.2	103	0.00
51 TMP m,p-Xylene	0.718	0.576	19.8	100	0.00
52 TMP o-Xylene	0.611	0.567	7.2	101	0.00
53 TMP Styrene	0.848	0.876	-3.3	103	0.00
54 TMP Isopropylbenzene	1.353	1.418	-4.8	104	0.00
55 TMP Bromoform	0.302	0.299	1.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
57 S 4-Bromofluorobenzene	0.606	0.607	-0.2	94	0.00
58 TMP n-Propylbenzene	2.257	2.392	-6.0	101	0.00
59 TMP Bromobenzene	0.821	0.864	-5.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.912	-4.1	101	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.418#	3.5	94	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.356#	-5.6	99	0.00
63 TMP 2-Chlorotoluene	1.282	1.368	-6.7	101	0.00
64 TMP 4-Chlorotoluene	1.552	1.643	-5.9	100	0.00
65 TMP tert-Butylbenzene	1.946	1.998	-2.7	99	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.007	-1.6	100	0.00
67 TMP sec-Butylbenzene	2.396	2.528	-5.5	101	0.00
68 TMP p-Isopropyltoluene	2.400	2.475	-3.1	99	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.531	-3.7	99	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.589	-9.1	104	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.490	-4.8	102	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.093	-2.2	104	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.061	-6.4	102	0.00
74 TMP Hexachlorobutadiene	0.588	0.599	-1.9	101	0.00
75 TMP Naphthalene	1.938	2.003	-3.4	101	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.829	-5.1	104	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Method Path : Y:\Methods\Inst11\  
 Method File : VB120222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022  
 Response Via : Initial Calibration

Calibration Files  
 0.02=120213.D 0.04=120214.D 0.1=120215.D 0.2=120216.D 0.5=120217.D 1=120218.D 2=120219.D 5=120220.D 10=120221.D 20=120222.D  
 50=120223.D 100=120224.D 150=120225.D 200=120226.D

Compound 0.02 0.04 0.1 0.2 0.5 1 2 5 10 20 50 100 150 200 Avg %RSD

ISTD	0.02	0.04	0.1	0.2	0.5	1	2	5	10	20	50	100	150	200	Avg	%RSD	
1) I Fluorobenzene																0.000# -1.00	
2) TMP Ethanol																2.28	
3) 5 Dibromofluorom...	0.256	0.253	0.269	0.272	0.259	0.265	0.262	0.263	0.261	0.267	0.260	0.273	0.259	0.270	0.264	2.60	
4) TMP Dichlorodifluo...					0.714	0.714	0.700	0.673	0.714	0.702	0.726	0.745	0.714	0.714	0.712	2.60	
5) TMP Chloromethane					1.323	1.330	0.970	0.824	0.828	0.827	0.852	0.871	0.840	0.846	0.951	21.29	
6) TMP Vinyl chloride	2.094		0.822	0.788	0.742	0.776	0.767	0.705	0.772	0.742	0.759	0.770	0.738	0.737	0.862	43.04	
7) TMP Bromomethane							0.655	0.437	0.456	0.414	0.402	0.409	0.380	0.375	0.441	20.54	
8) TMP Chloroethane							0.334	0.345	0.365	0.321	0.361	0.332	0.355	0.362	0.320	0.315	5.59
9) TMP Trichlorofluor...							0.951	0.823	0.901	0.942	0.850	0.945	0.860	0.885	0.946	0.881	4.87
10) TMP 2-Propanol																0.000	
11) TMP Acetone					0.039	0.037	0.031	0.029	0.031	0.029	0.031	0.029	0.031	0.028	0.029	0.031	11.97
12) TMP 1,1-Dichloroet...	0.473		0.294	0.272	0.250	0.255	0.256	0.236	0.255	0.243	0.252	0.255	0.244	0.244	0.271	22.95	
13) TMP Hexane					0.725	0.523	0.502	0.412	0.432	0.415	0.422	0.429	0.401	0.423	0.469	21.06	
14) TMP Methylene chlo...							0.307	0.276	0.269	0.269	0.265	0.262	0.252	0.254	0.269	6.89	
15) TMP t-Butyl alcoho...					0.049	0.050	0.050	0.046	0.046	0.043	0.045	0.045	0.044	0.045	0.046	5.37	
16) TMP Methyl t-butyl...	1.329		0.793	0.818	0.785	0.802	0.785	0.733	0.784	0.753	0.754	0.759	0.731	0.726	0.812	19.45	
17) TMP trans-1,2-Dich...	0.676		0.360	0.300	0.283	0.294	0.282	0.263	0.288	0.272	0.273	0.263	0.263	0.314	35.45		
18) TMP Disopropyl et...			1.270	1.051	1.005	0.937	0.874	0.919	0.886	0.901	0.909	0.867	0.860	0.953	12.67		
19) TMP 1,1-Dichloroet...	0.923		0.541	0.547	0.529	0.531	0.529	0.491	0.520	0.497	0.508	0.512	0.492	0.489	0.547	20.98	
20) TMP Ethyl t-butyl ...			0.340	0.318	0.307	0.296	0.285	0.317	0.300	0.304	0.317	0.298	0.298	0.307	4.90		
21) TMP 2,2-Dichloropr...			0.527	0.381	0.361	0.378	0.313	0.303	0.326	0.326	0.302	0.302	0.302	0.296	0.347	19.44	
22) TMP cis-1,2-Dichlo...	0.631		0.343	0.326	0.310	0.310	0.309	0.286	0.302	0.291	0.295	0.297	0.290	0.289	0.329	27.95	
23) TMP Chloroform			0.509	0.484	0.495	0.529	0.449	0.465	0.458	0.466	0.469	0.459	0.459	0.477	5.24		
24) TMP 2-Butanone (MEK)			0.221	0.185	0.185	0.176	0.159	0.180	0.167	0.157	0.157	0.167	0.160	0.162	0.173	11.08	
25) TMP t-Amyl methyl ...			0.848	0.734	0.802	0.771	0.710	0.723	0.712	0.714	0.716	0.695	0.702	0.739	6.53		
26) TMP 1,2-Dichloroet...	1.205		0.515	0.468	0.425	0.424	0.422	0.444	0.468	0.458	0.452	0.402	0.390	0.388	0.479	46.22	
27) TMP 1,1,1-Trichlor...	0.822		0.480	0.477	0.472	0.480	0.476	0.444	0.468	0.452	0.462	0.473	0.456	0.465	0.494	20.05	
28) TMP 1,1-Dichloropr...			0.393	0.388	0.383	0.377	0.342	0.366	0.358	0.368	0.368	0.354	0.356	0.368	4.24		
29) TMP Carbon tetrach...			0.431	0.368	0.411	0.401	0.383	0.395	0.377	0.395	0.401	0.396	0.397	0.396	4.22		
30) S 1,2-Dichloroet...	0.060	0.061	0.059	0.062	0.056	0.063	0.055	0.059	0.060	0.060	0.063	0.057	0.060	0.061	0.060	4.28	
31) TMP Benzene	1.993		1.100	1.101	1.055	1.061	1.059	0.984	1.029	0.988	1.000	1.012	0.983	0.977	1.103	24.55	
32) TMP Trichloroethene	0.799		0.389	0.356	0.332	0.337	0.330	0.309	0.329	0.318	0.311	0.328	0.322	0.325	0.368	35.63	
33) TMP 1,2-Dichloropr...			0.403	0.356	0.339	0.332	0.285	0.295	0.282	0.294	0.299	0.290	0.289	0.315	12.14		
34) TMP Bromodichlorom...			0.456	0.352	0.385	0.406	0.357	0.358	0.352	0.363	0.374	0.360	0.365	0.375	8.36		
35) S Toluene-d8	0.978	0.941	0.967	0.992	0.938	0.967	0.945	0.950	1.006	0.987	0.991	1.013	1.012	0.971	0.975	2.64	
36) TMP Dibromomethane			0.198	0.223	0.173	0.192	0.166	0.176	0.168	0.176	0.178	0.173	0.173	0.181	9.23		
37) TMP 4-Methyl-2-pen...			0.065	0.053	0.060	0.053	0.047	0.055	0.053	0.053	0.053	0.054	0.051	0.052	0.054	8.72	

Response Factor Report GCMS11

Method Path : Y:\Methods\Inst11\

Method File : VB120222ms11.M

Title : 8260 Purge & Trap Volatiles Dual Acquisition

38) TMP cis-1,3-Dichlo...

0.480 0.466 0.440 0.460 0.422 0.439 0.413 0.434 0.447 0.437 0.436 0.443 4.36

39) I	Chlorobenzene-d5	2.048	1.057	0.979	0.920	0.924	0.915	0.852	0.871	0.846	0.857	0.869	0.853	0.827	0.986	33.01
40) TMP	Toluene															
41) TMP	trans-1,3-Dich...															
42) TMP	1,1,2-Trichlor...		0.352	0.303	0.288	0.291	0.288	0.268	0.274	0.266	0.273	0.277	0.272	0.265	0.285	8.51
43) TMP	2-Hexanone															
44) TMP	1,3-Dichloropr...															
45) TMP	Tetrachloroethene	1.223	0.481	0.415	0.361	0.357	0.348	0.321	0.330	0.320	0.326	0.330	0.324	0.319	0.420	58.59
46) TMP	Dibromochlorom...															
47) TMP	1,2-Dibromoeth...	0.868	0.407	0.378	0.346	0.340	0.344	0.318	0.324	0.317	0.326	0.328	0.323	0.313	0.379	39.32
48) TMP	Chlorobenzene															
49) TMP	Ethylbenzene	3.911	2.005	1.887	1.787	1.787	1.768	1.636	1.680	1.622	1.629	1.640	1.605	1.551	1.885	32.99
50) TMP	1,1,1,2-Tetrac...															
51) TMP	m,p-Xylene	1.501	0.757	0.709	0.672	0.669	0.665	0.610	0.621	0.597	0.599	0.605	0.591	0.573	0.705	34.69
52) TMP	o-Xylene	1.380	0.722	0.681	0.653	0.653	0.646	0.596	0.610	0.589	0.590	0.598	0.586	0.568	0.683	31.36
53) TMP	Styrene															
54) TMP	Isopropylbenzene															
55) TMP	Bromoform															

56) I	1,4-Dichlorobenzen...	0.871	0.886	0.867	0.833	0.868	0.872	0.863	0.879	0.855	0.858	0.842	0.885	0.878	0.840	0.864	1.94
57) S	4-Bromofluorob...																
58) TMP	n-Propylbenzene																
59) TMP	Bromobenzene																
60) TMP	1,3,5-Trimethy...																
61) TMP	1,1,2,2-Tetrac...																
62) TMP	1,2,3-Trichlor...																
63) TMP	2-Chlorotoluene																
64) TMP	4-Chlorotoluene																
65) TMP	tert-Butylbenzene																
66) TMP	1,2,4-Trimethy...																
67) TMP	sec-Butylbenzene																
68) TMP	p-Isopropyltol...																
69) TMP	1,3-Dichlorobe...																
70) TMP	1,4-Dichlorobe...																
71) TMP	1,2-Dichlorobe...																
72) TMP	1,2-Dibromo-3-...																
73) TMP	1,2,4-Trichlor...																
74) TMP	Hexachlorobuta...																
75) TMP	Naphthalene																
76) TMP	1,2,3-Trichlor...																

(#) = Out of Range

## Compound List Report GCMS11

Method Path : Y:\Methods\Inst11\  
 Method File : VB120222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022  
 Response Via : Initial Calibration

Total Cpnds : 76

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Fluorobenzene	96	4.63	1.000	A	1	A	B
2	T	Ethanol	45	1.86	0.402	A	1	A	B
3	S	Dibromofluoromethane	113	4.08	0.881	A	0	A	B
4	T	Dichlorodifluoromethane	85	1.09	0.235	A	1	A	B
5	T	Chloromethane	50	1.23	0.265	L	1	A	B
6	T	Vinyl chloride	-62	1.30	0.281	L	1	A	B
7	T	Bromomethane	94	1.54	0.333	L	1	A	B
8	T	Chloroethane	-64	1.61	0.347	L	1	A	B
9	T	Trichlorofluoromethane	101	1.77	0.384	A	1	A	B
10	T	2-Propanol	45	2.40	0.519	A	1	A	B
11	T	Acetone	58	2.27	0.490	A	1	A	B
12	T	1,1-Dichloroethene	-96	2.19	0.474	L	2	A	B
13	T	Hexane	57	3.06	0.660	L	2	A	B
14	T	Methylene chloride	84	2.61	0.563	Q	2	A	B
15	T	t-Butyl alcohol (TBA)	59	2.74	0.592	A	1	A	B
16	T	Methyl t-butyl ether (MTBE)	-73	2.84	0.613	L	1	A	B
17	T	trans-1,2-Dichloroethene	-96	2.83	0.611	L	2	A	B
18	T	Diisopropyl ether (DIPE)	45	3.24	0.701	A	3	A	B
19	T	1,1-Dichloroethane	-63	3.18	0.688	L	2	A	B
20	T	Ethyl t-butyl ether (ETBE)	87	3.55	0.767	A	3	A	B
21	T	2,2-Dichloropropane	77	3.67	0.792	L	1	A	B
22	T	cis-1,2-Dichloroethene	-96	3.67	0.793	L	2	A	B
23	T	Chloroform	83	3.94	0.851	A	1	A	B
24	T	2-Butanone (MEK)	43	3.71	0.801	L	2	A	B
25	T	t-Amyl methyl ether (TAME)	73	4.50	0.971	A	2	A	B
26	T	1,2-Dichloroethane (EDC)	-62	4.42	0.955	L	1	A	B
27	T	1,1,1-Trichloroethane	-97	4.08	0.882	L	2	A	B
28	T	1,1-Dichloropropene	75	4.22	0.911	A	2	A	B
29	T	Carbon tetrachloride	117	4.21	0.909	A	1	A	B
30	S	1,2-Dichloroethane-d4	102	4.36	0.941	A	1	A	B
31	T	Benzene	-78	4.39	0.949	Q	1	A	B
32	T	Trichloroethene	-95	4.93	1.065	L	3	A	B
33	T	1,2-Dichloropropane	63	5.13	1.108	A	1	A	B
34	T	Bromodichloromethane	83	5.37	1.161	A	2	A	B
35	S	Toluene-d8	98	5.98	1.293	A	1	A	B
36	T	Dibromomethane	93	5.23	1.131	A	2	A	B
37	T	4-Methyl-2-pentanone	85	5.91	1.276	A	2	A	B
38	T	cis-1,3-Dichloropropene	75	5.75	1.243	A	2	A	B
39	I	Chlorobenzene-d5	117	7.27	1.000	A	1	A	B
40	T	Toluene	-92	6.03	0.829	L	1	A	B
41	T	trans-1,3-Dichloropropene	75	6.25	0.859	A	2	A	B
42	T	1,1,2-Trichloroethane	-83	6.40	0.881	Q	2	A	B
43	T	2-Hexanone	43	6.64	0.914	A	3	A	B
44	T	1,3-Dichloropropane	76	6.55	0.901	A	1	A	B
45	T	Tetrachloroethene	-164	6.51	0.896	Q	3	A	B
46	T	Dibromochloromethane	129	6.75	0.929	A	1	A	B
47	T	1,2-Dibromoethane (EDB)	-107	6.85	0.943	L	2	A	B
48	T	Chlorobenzene	112	7.30	1.004	A	2	A	B
49	T	Ethylbenzene	-91	7.40	1.018	L	1	A	B
50	T	1,1,1,2-Tetrachloroethane	131	7.38	1.015	A	2	A	B
51	T	m,p-Xylene	-106	7.51	1.033	L	1	A	B
52	T	o-Xylene	-106	7.88	1.084	L	1	A	B
53	T	Styrene	104	7.90	1.086	A	1	A	B
54	T	Isopropylbenzene	105	8.23	1.131	A	1	A	B
55	T	Bromoform	173	8.07	1.110	A	2	A	B

56	I	1,4-Dichlorobenzene-d4	152	9.48	1.000	A	2	A	B
57	S	4-Bromofluorobenzene	95	8.38	0.884	A	2	A	B
58	T	n-Propylbenzene	91	8.62	0.909	A	1	A	B
59	T	Bromobenzene	156	8.51	0.898	A	2	A	B
60	T	1,3,5-Trimethylbenzene	105	8.79	0.927	A	1	A	B
61	T	1,1,2,2-Tetrachloroethane	83	8.53	0.900	A	2	A	B
62	T	1,2,3-Trichloropropane	75	8.57	0.904	A	3	A	R
63	T	2-Chlorotoluene	91	8.70	0.917	A	1	A	B
64	T	4-Chlorotoluene	91	8.81	0.929	A	1	A	B
65	T	tert-Butylbenzene	119	9.10	0.960	A	2	A	B
66	T	1,2,4-Trimethylbenzene	105	9.15	0.966	A	1	A	B
67	T	sec-Butylbenzene	105	9.31	0.982	A	1	A	B
68	T	p-Isopropyltoluene	119	9.46	0.998	A	2	A	B
69	T	1,3-Dichlorobenzene	146	9.42	0.993	A	2	A	B
70	T	1,4-Dichlorobenzene	146	9.50	1.002	A	2	A	B
71	T	1,2-Dichlorobenzene	146	9.87	1.041	A	2	A	B
72	T	1,2-Dibromo-3-chloropropane	75	10.64	1.122	A	2	A	B
73	T	1,2,4-Trichlorobenzene	180	11.44	1.207	A	2	A	B
74	T	Hexachlorobutadiene	225	11.61	1.225	A	2	A	B
75	T	Naphthalene	128	11.68	1.232	A	2	A	B
76	T	1,2,3-Trichlorobenzene	180	11.92	1.257	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

-----

VB120222ms11.M Mon Dec 05 13:50:05 2022



Calibration Status Report GCMS11

Method Path : Y:\Methods\Inst11\  
 Method File : VB120222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022  
 Response Via : Initial Calibration

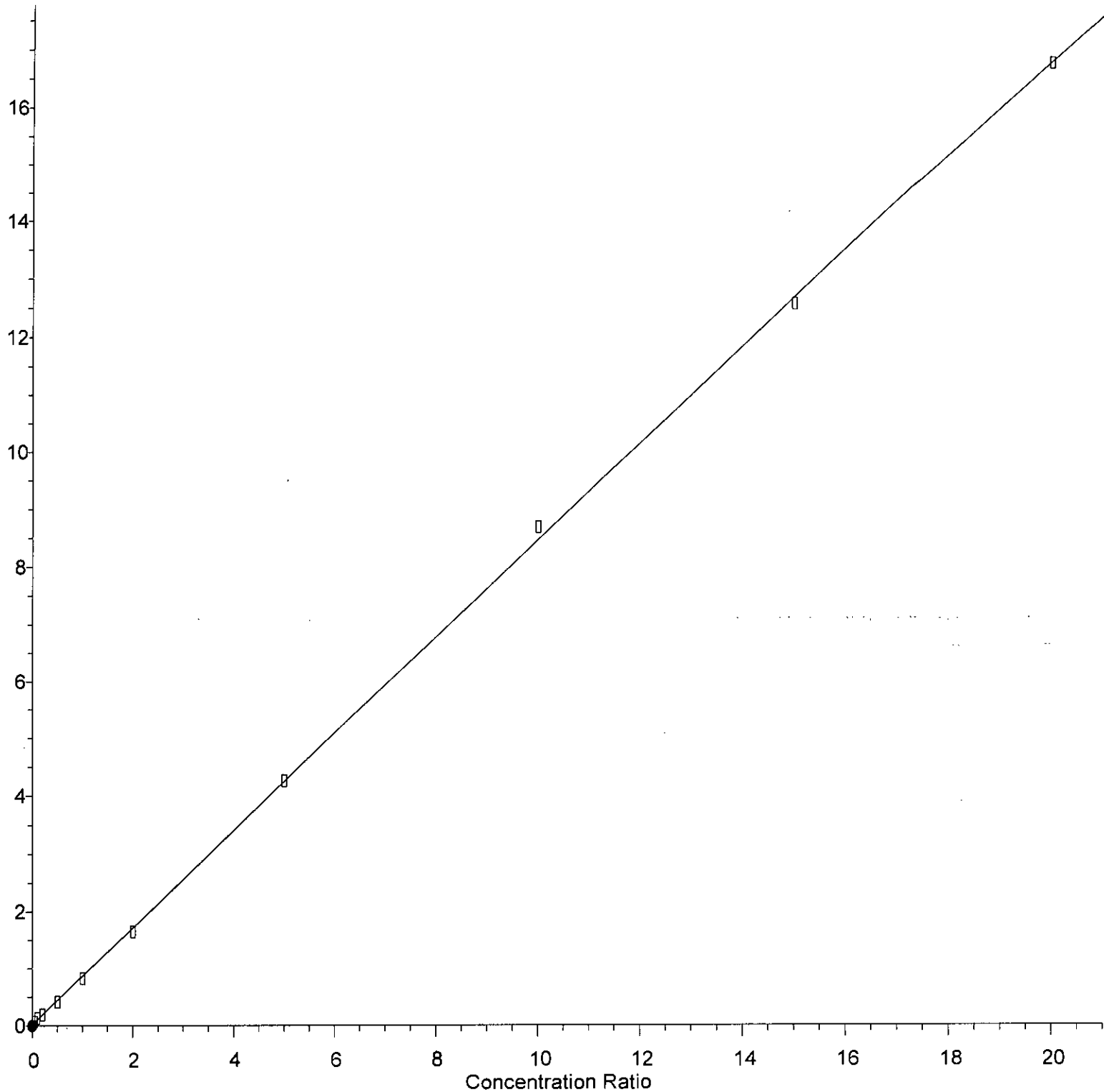
#	ID	Conc	ISTD Conc	Path\File
1	0.02	0	10	Y:\Proc_GCMS11\12-02-22\120213.D
2	0.04	0	10	Y:\Proc_GCMS11\12-02-22\120214.D
3	0.1	0	10	Y:\Proc_GCMS11\12-02-22\120215.D
4	0.2	0	10	Y:\Proc_GCMS11\12-02-22\120216.D
5	0.5	1	10	Y:\Proc_GCMS11\12-02-22\120217.D
6	1	1	10	Y:\Proc_GCMS11\12-02-22\120218.D
7	2	2	10	Y:\Proc_GCMS11\12-02-22\120219.D
8	5	5	10	Y:\Proc_GCMS11\12-02-22\120220.D
9	10	10	10	Y:\Proc_GCMS11\12-02-22\120221.D
10	20	20	10	Y:\Proc_GCMS11\12-02-22\120222.D
11	50	50	10	Y:\Proc_GCMS11\12-02-22\120223.D
12	100	100	10	Y:\Proc_GCMS11\12-02-22\120224.D
13	150	150	10	Y:\Proc_GCMS11\12-02-22\120225.D
14	200	200	10	Y:\Proc_GCMS11\12-02-22\120226.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.02	Dec 05 11:01 2022	Dec 05 10:52 2022	02 Dec 2022 09:20 pm
2	0.04	Dec 05 11:01 2022	Dec 05 10:53 2022	02 Dec 2022 09:43 pm
3	0.1	Dec 05 11:01 2022	Dec 05 10:54 2022	02 Dec 2022 10:06 pm
4	0.2	Dec 05 11:01 2022	Dec 05 10:54 2022	02 Dec 2022 10:29 pm
5	0.5	Dec 05 11:01 2022	Dec 05 10:55 2022	02 Dec 2022 10:53 pm
6	1	Dec 05 11:01 2022	Dec 05 10:56 2022	02 Dec 2022 11:16 pm
7	2	Dec 05 11:01 2022	Dec 05 10:56 2022	02 Dec 2022 11:39 pm
8	5	Dec 05 11:01 2022	Dec 05 10:57 2022	03 Dec 2022 12:02 am
9	10	Dec 05 11:01 2022	Dec 05 10:58 2022	03 Dec 2022 12:25 am
10	20	Dec 05 11:01 2022	Dec 05 10:48 2022	03 Dec 2022 12:49 am
11	50	Dec 05 11:01 2022	Dec 05 10:48 2022	03 Dec 2022 01:12 am
12	100	Dec 05 11:01 2022	Dec 05 11:00 2022	03 Dec 2022 01:35 am
13	150	Dec 05 11:01 2022	Dec 05 10:49 2022	03 Dec 2022 01:58 am
14	200	Dec 05 11:01 2022	Dec 05 11:01 2022	03 Dec 2022 02:21 am

VB120222ms11.M Mon Dec 05 13:50:13 2022

Chloromethane

Response Ratio



Response = 8.461e-001 \* Amt + 2.105e-002

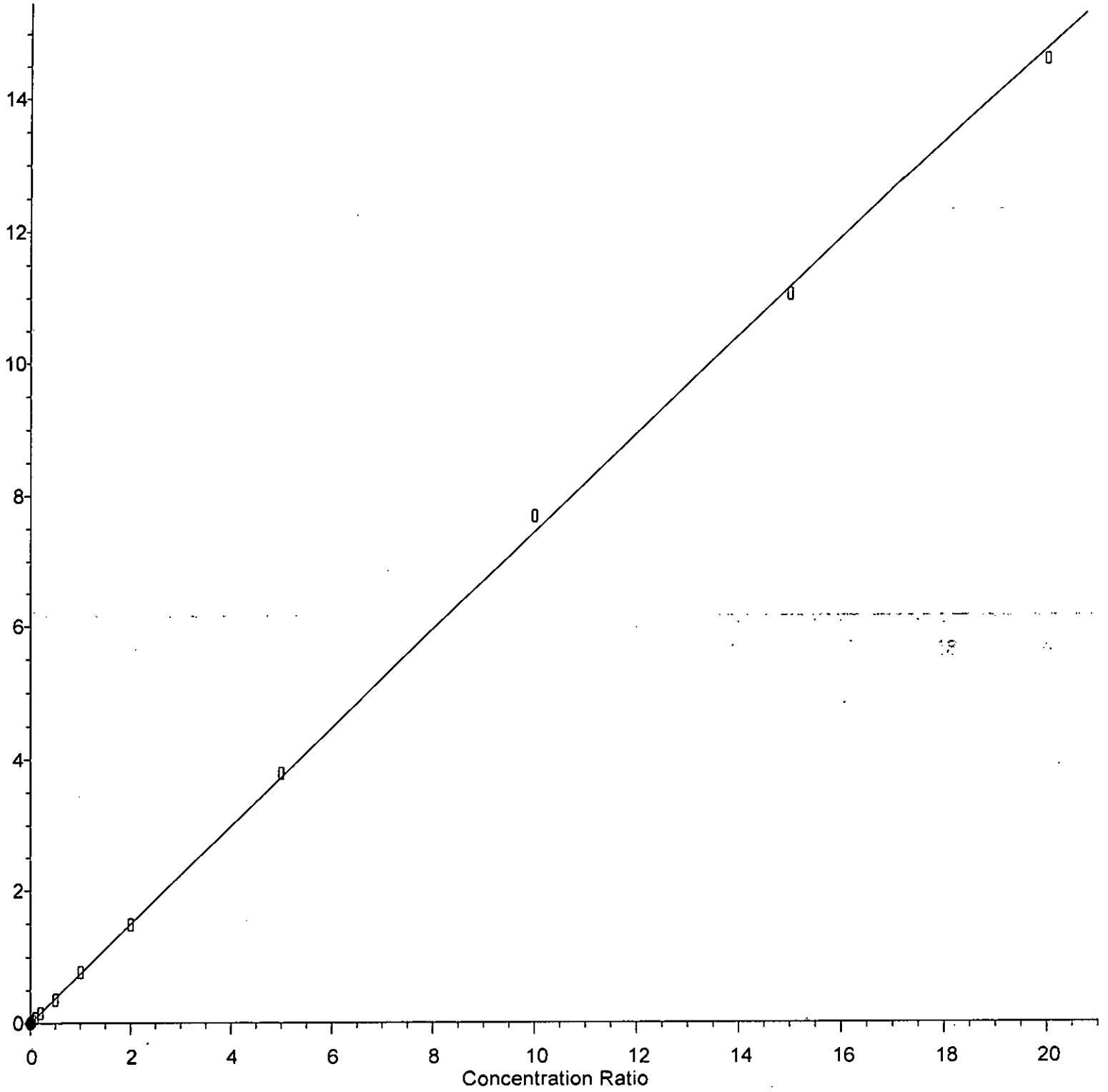
Coef of Det (r^2) = 0.999790 Curve Fit: Linear

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Vinyl chloride

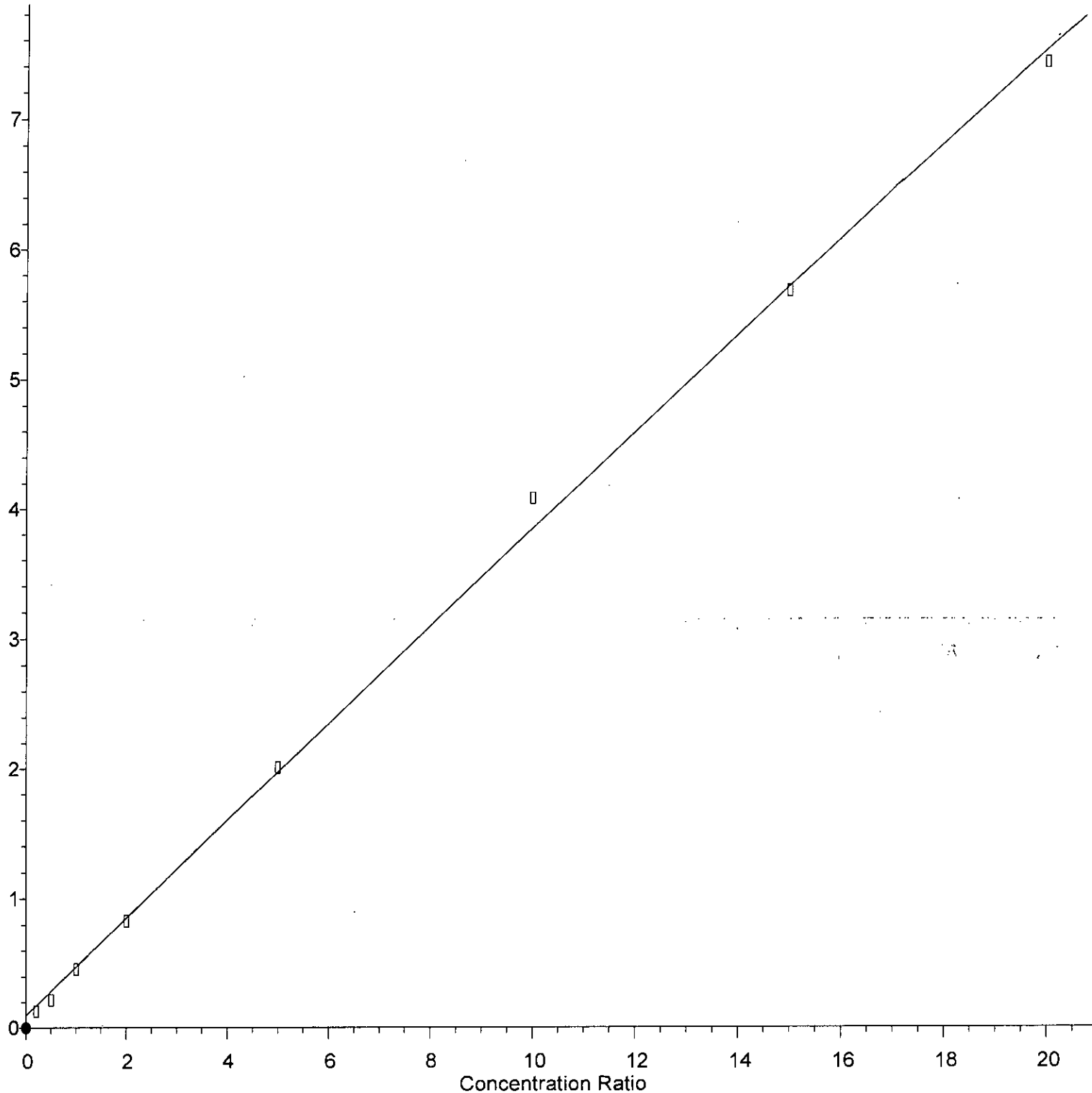
Response Ratio



Response = 7.458e-001 \* Amt + 2.202e-003  
Coef of Det (r^2) = 0.999625 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Bromomethane

Response Ratio



Response = 3.753e-001 \* Amt + 9.755e-002

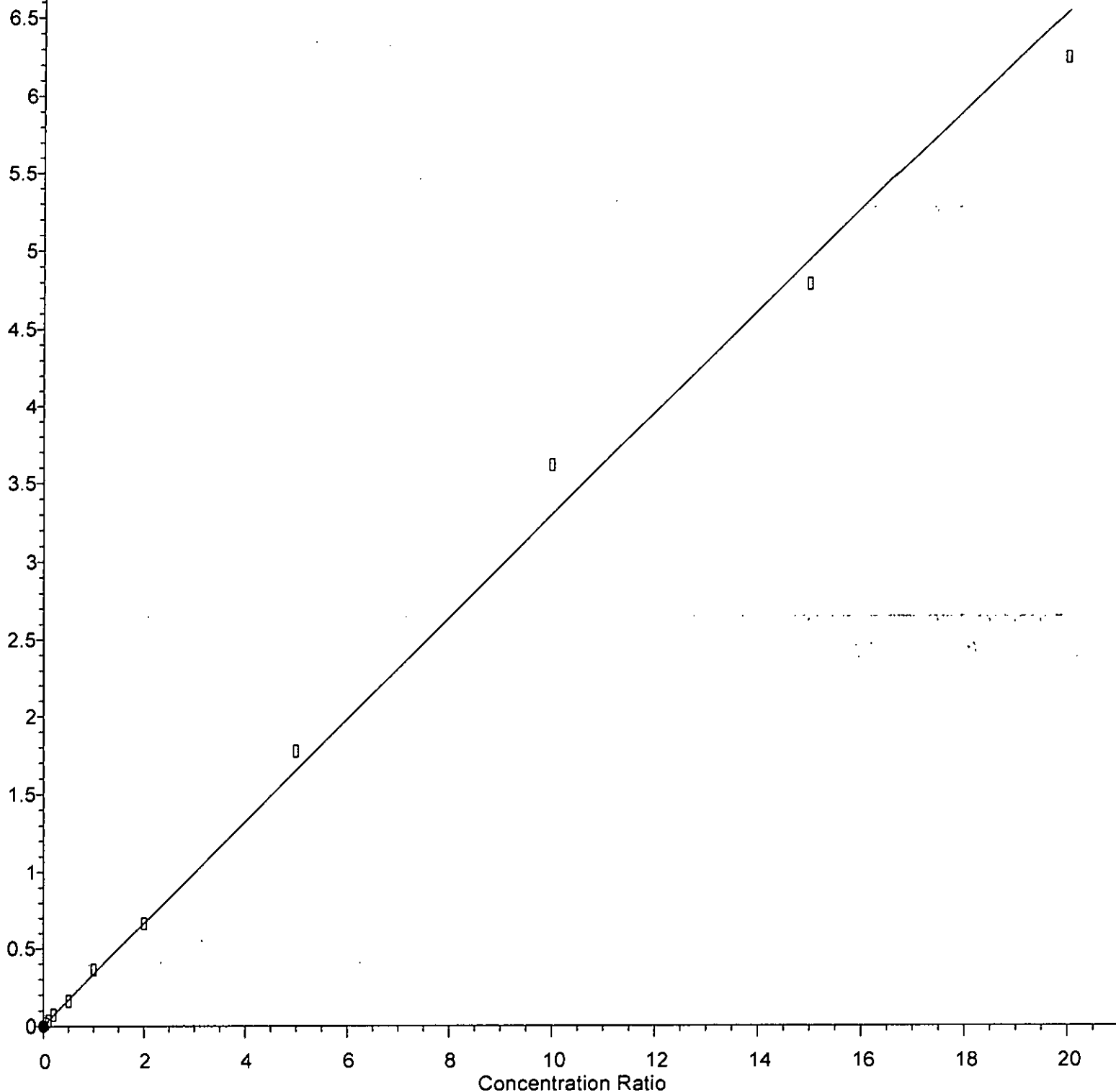
Coef of Det (r<sup>2</sup>) = 0.998614 Curve Fit: Linear

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

# Chloroethane

Response Ratio



$$\text{Response} = 3.301e-001 * \text{Amt} + 2.781e-003$$

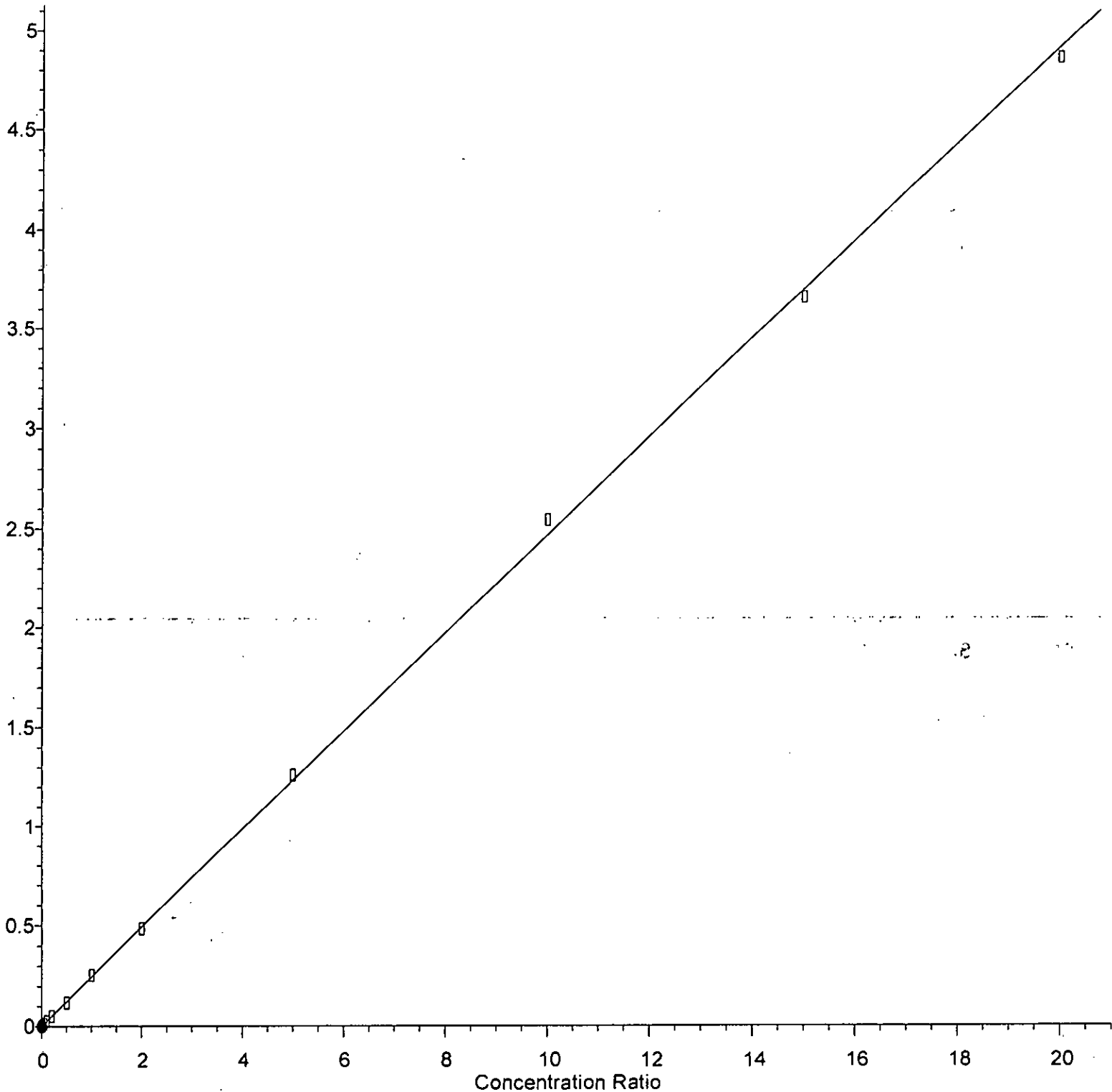
Coef of Det ( $r^2$ ) = 0.996339 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,1-Dichloroethene

Response Ratio



Response = 2.469e-001 \* Amt + 4.623e-004

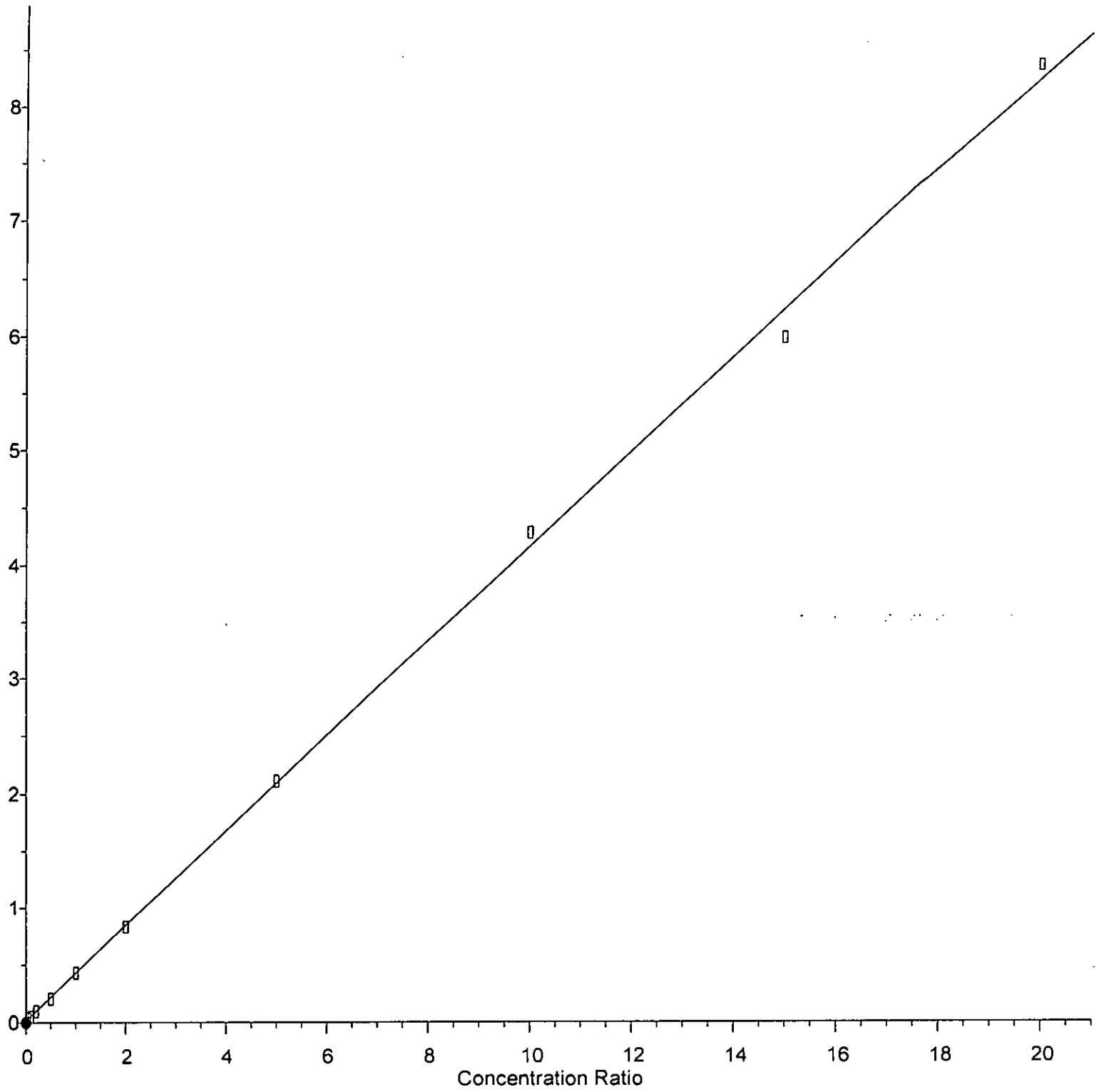
Coef of Det (r^2) = 0.999641 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Hexane

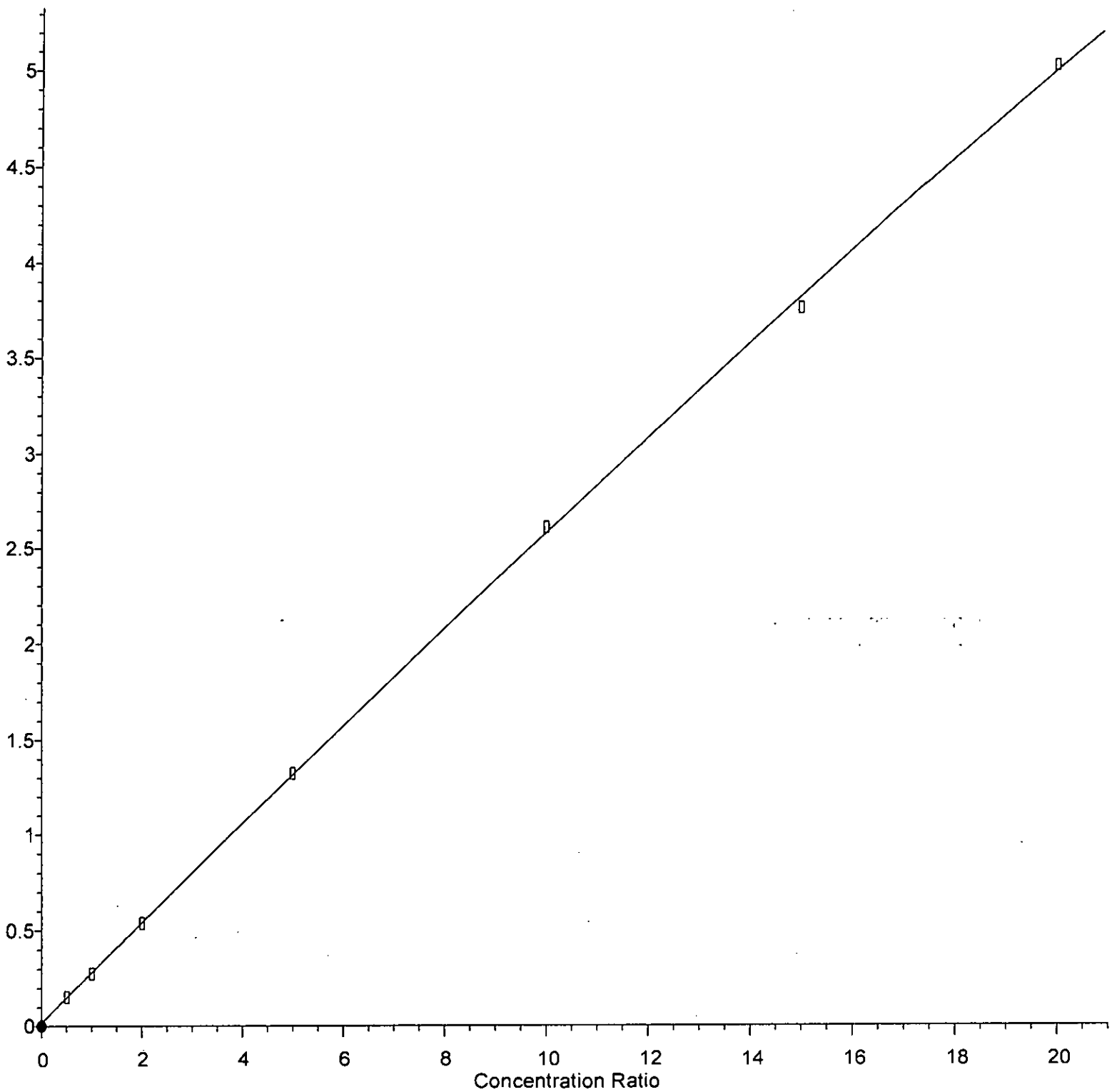
Response Ratio



Response = 4.161e-001 \* Amt + 1.350e-002  
Coef of Det (r^2) = 0.999197 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Methylene chloride

Response Ratio

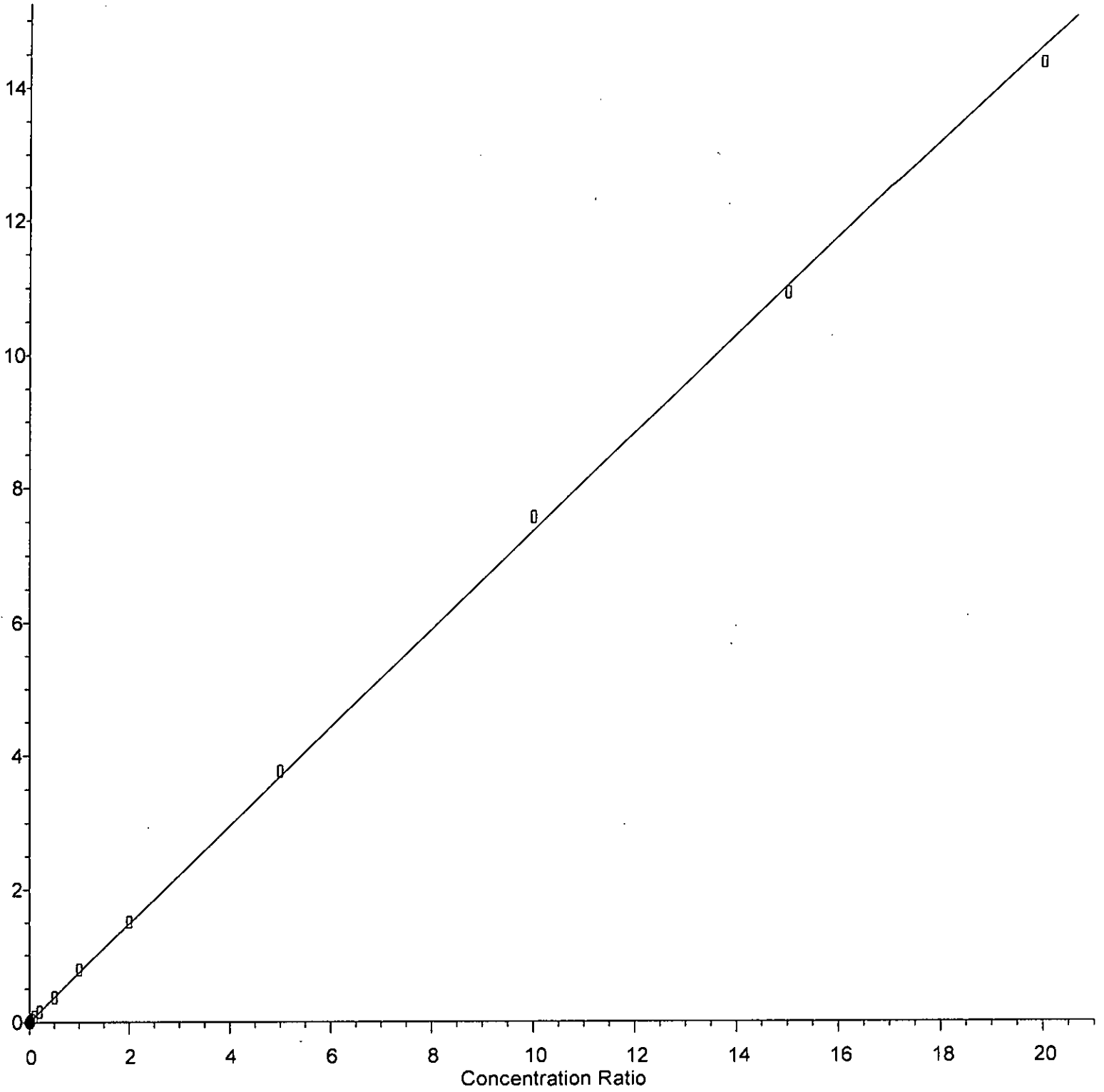


R = -5.451e-004 A\*A + 2.624e-001 A + 1.955e-002  
Coef of Det (r^2) = 0.999837 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022



Methyl t-butyl ether (MTBE)

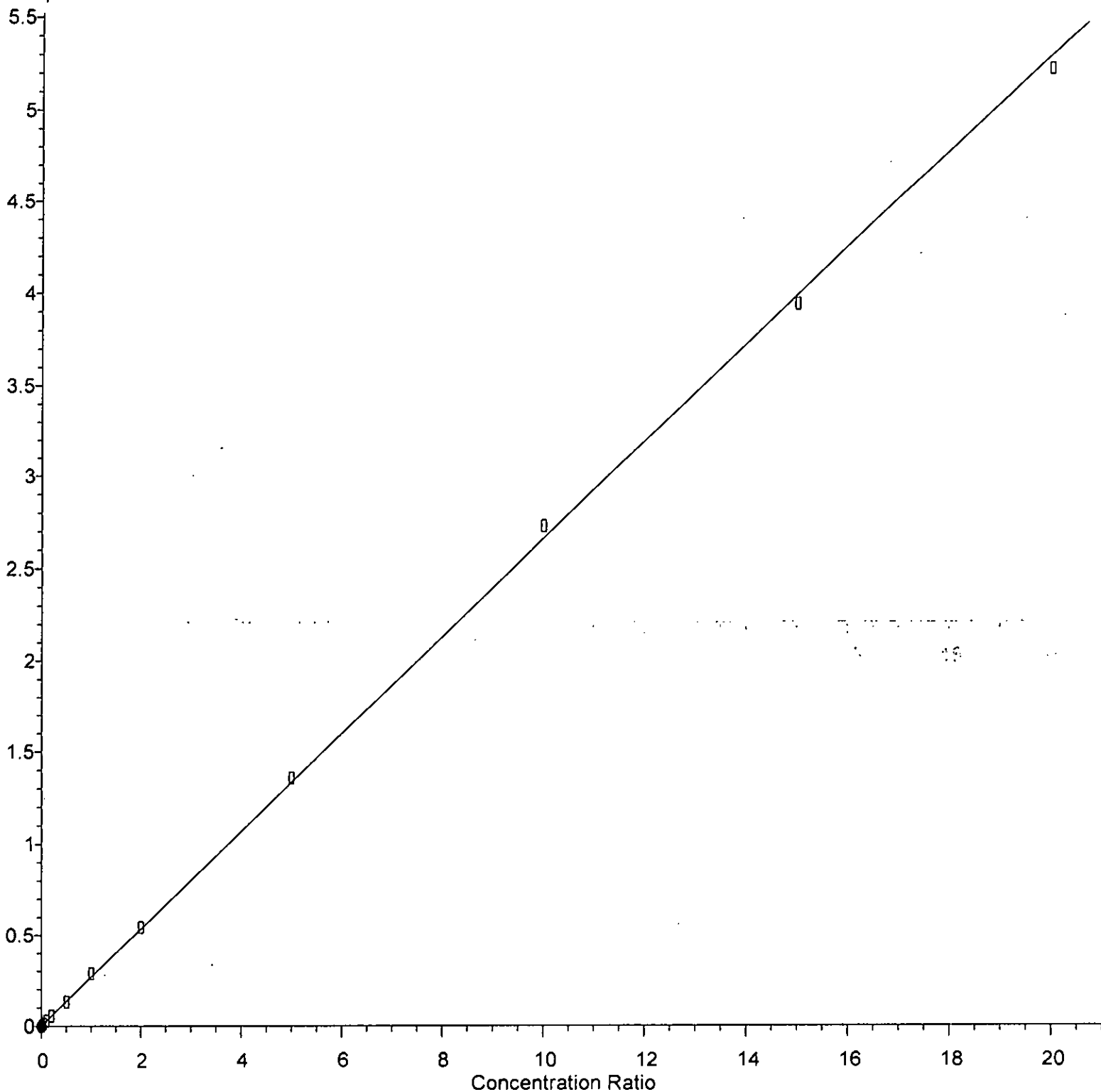
Response Ratio



Response =  $7.386e-001 * Amt + 1.381e-003$   
Coef of Det ( $r^2$ ) = 0.999577 Curve Fit:  $wlr(1/a)$   
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

trans-1,2-Dichloroethene

Response Ratio



Response = 2.664e-001 \* Amt + 9.075e-004

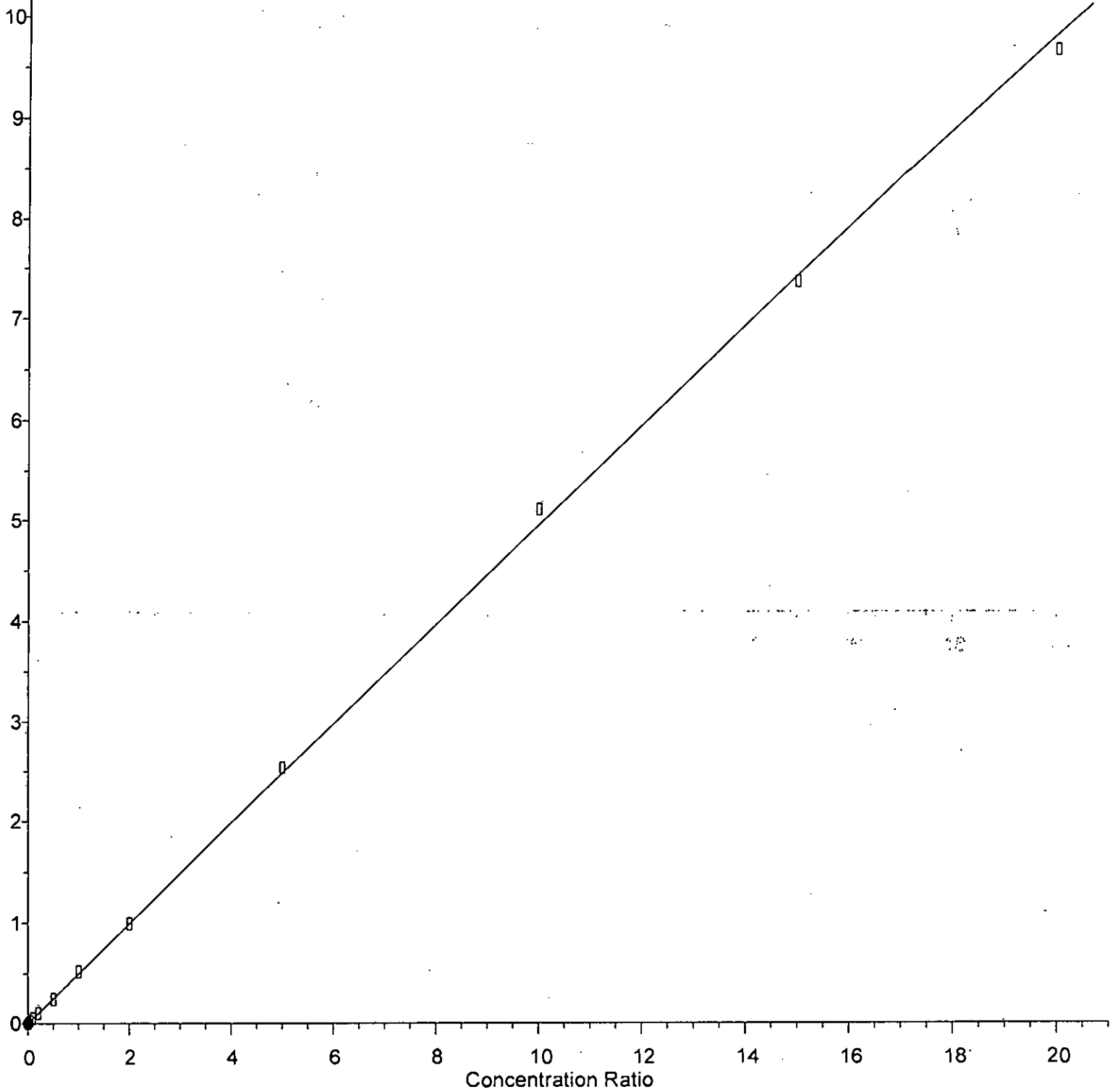
Coef of Det (r^2) = 0.999586 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,1-Dichloroethane

Response Ratio



Response =  $4.968e-001 \cdot \text{Amt} + 9.464e-004$

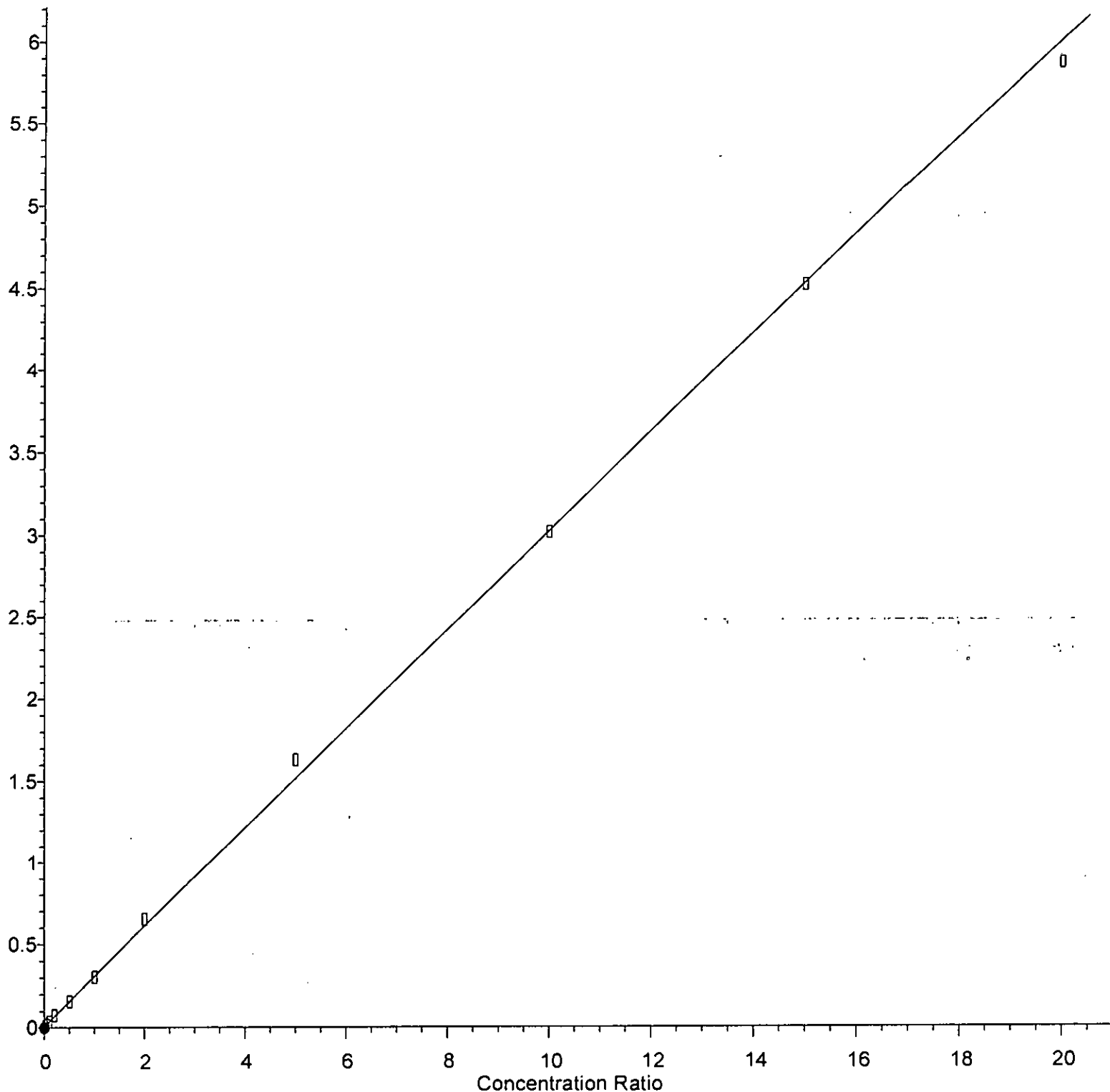
Coef of Det ( $r^2$ ) = 0.999594 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

2,2-Dichloropropane

Response Ratio



Response =  $3.024e-001 * Amt + 5.501e-003$

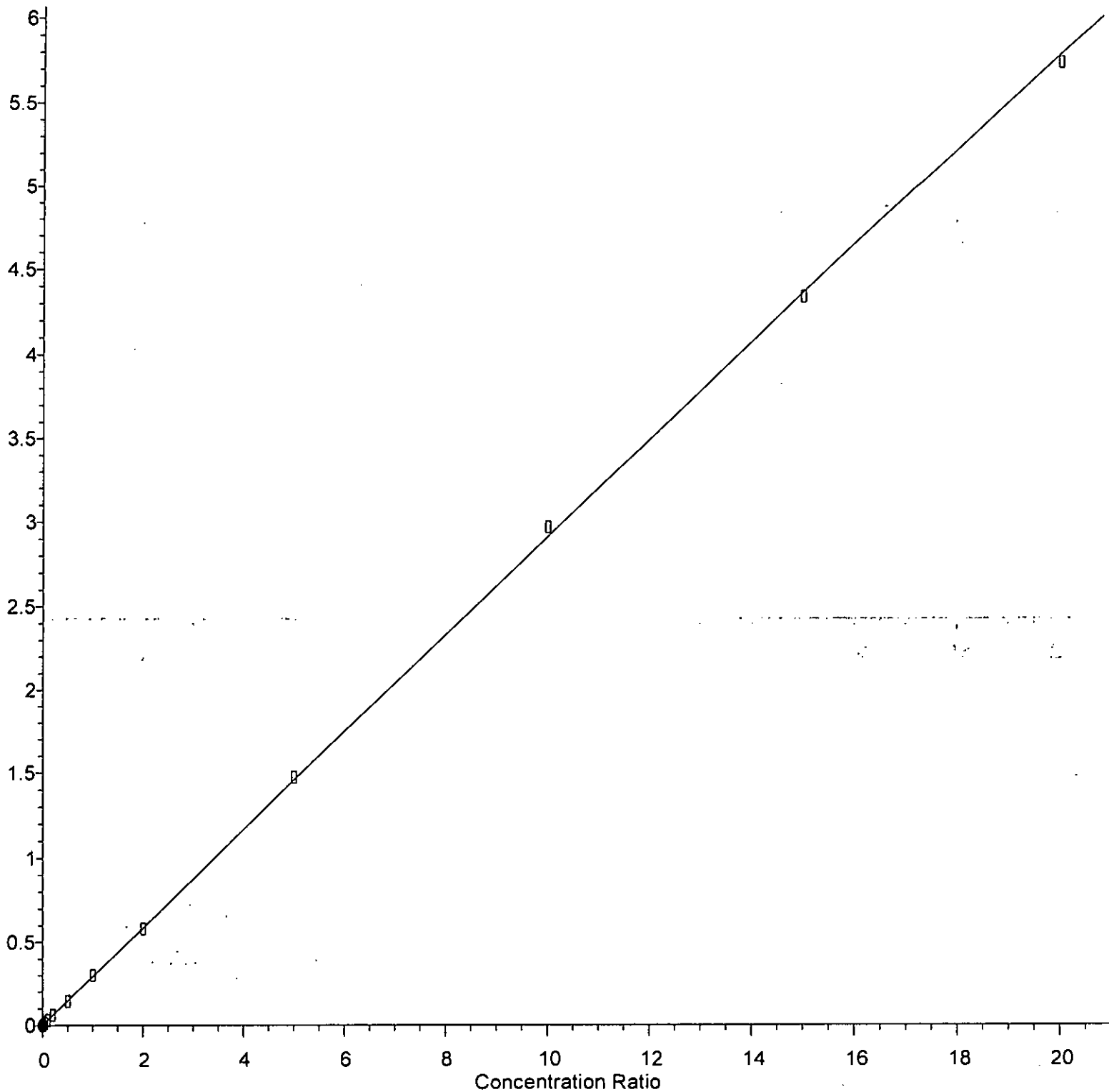
Coef of Det ( $r^2$ ) = 0.998964 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

cis-1,2-Dichloroethene

Response Ratio



Response = 2.916e-001 \* Amt + 7.083e-004

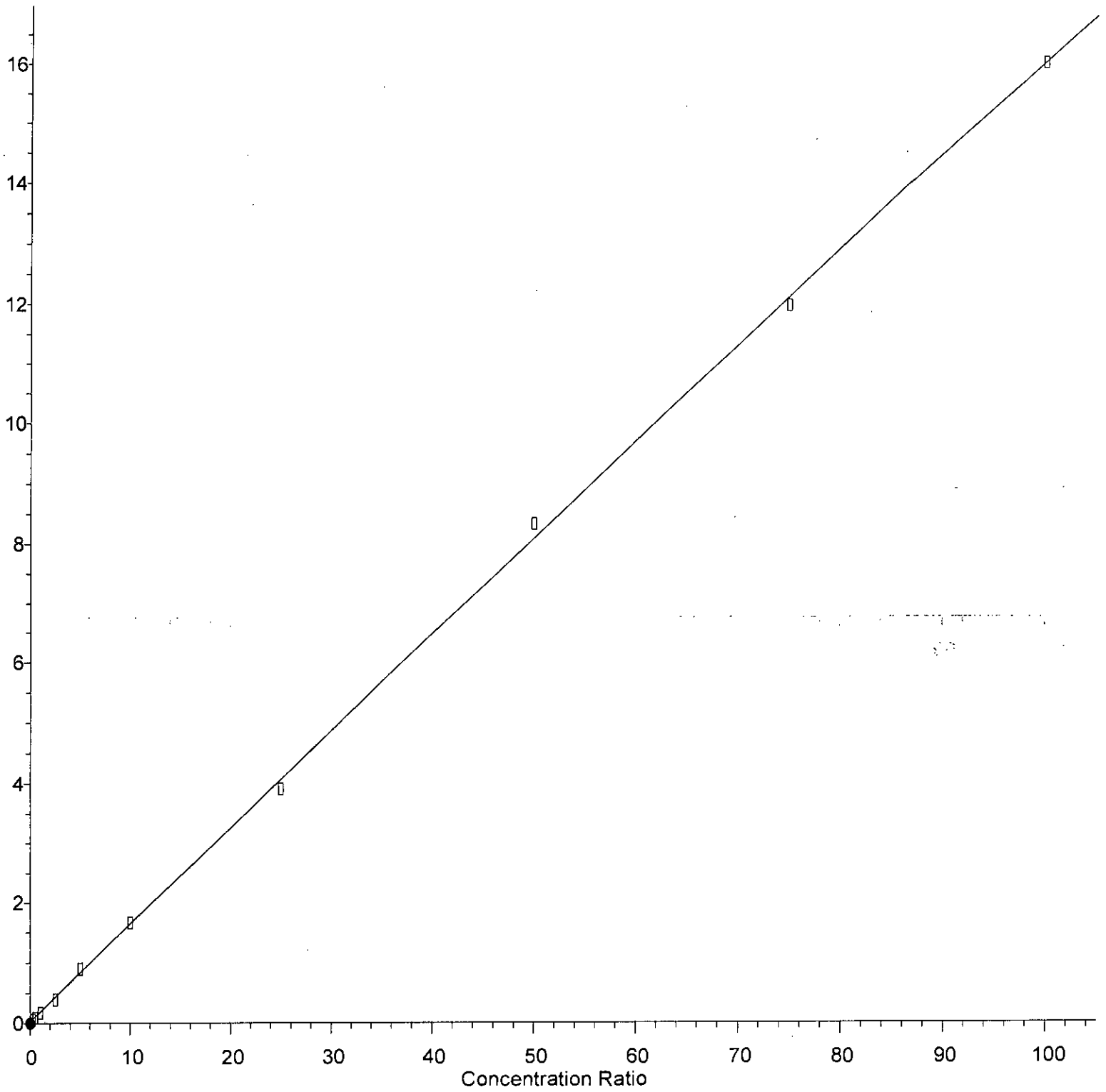
Coef of Det (r^2) = 0.999836 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

2-Butanone (MEK)

Response Ratio



Response =  $1.614e-001 \cdot \text{Amt} + 2.621e-002$

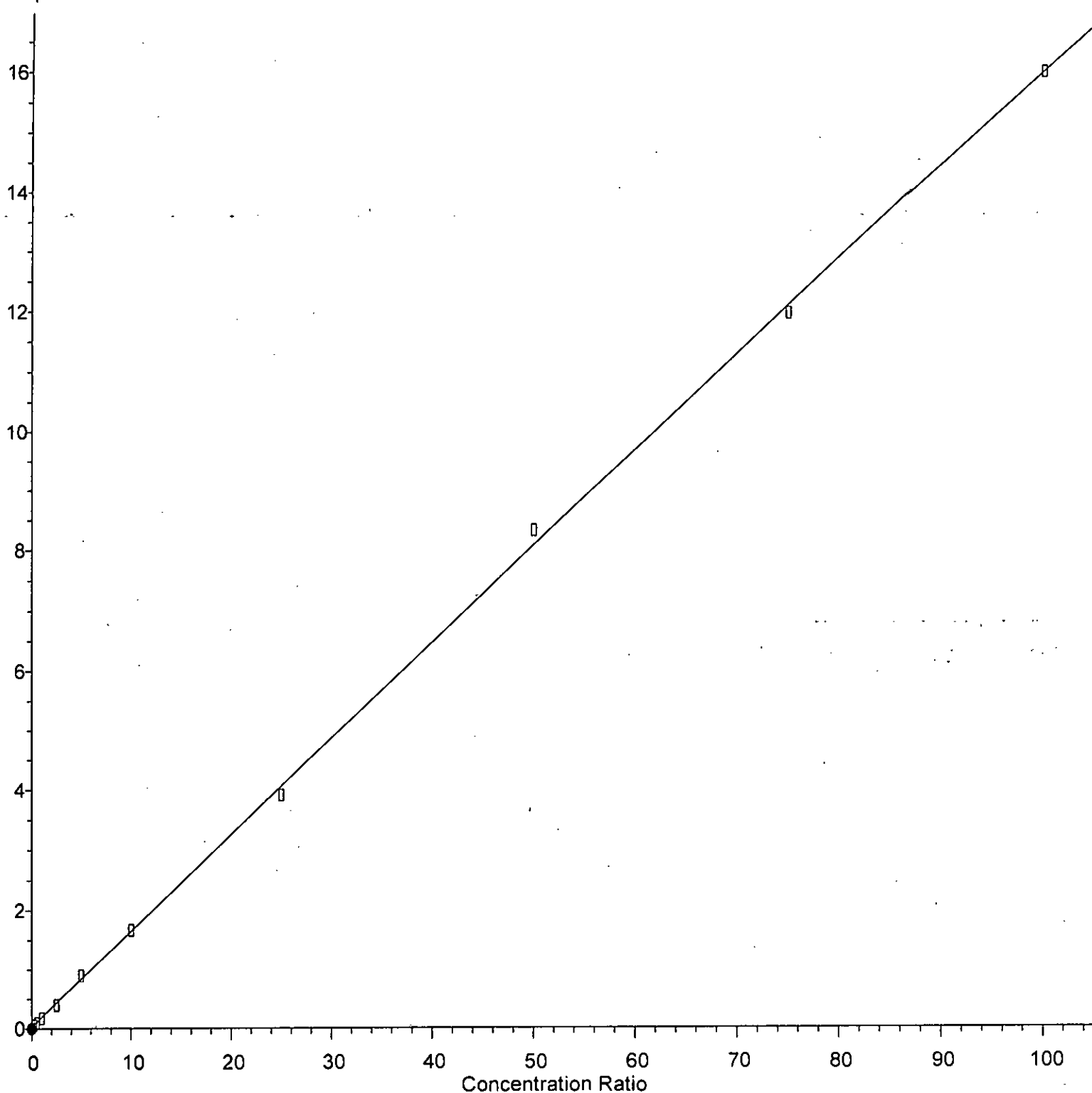
Coef of Det ( $r^2$ ) = 0.999649 Curve Fit: Linear

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

2-Butanone (MEK)

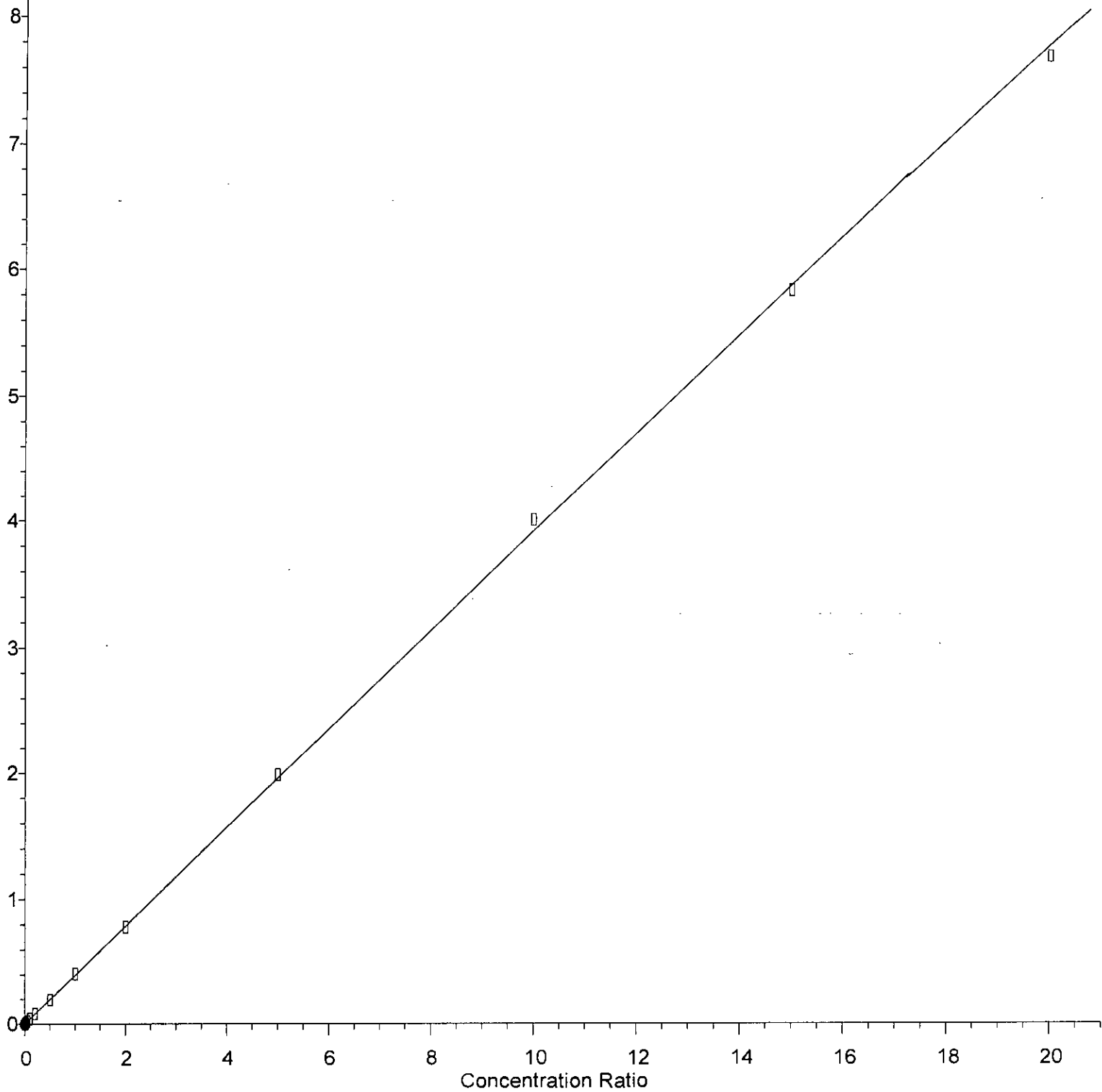
Response Ratio



Response = 1.614e-001 \* Amt + 2.621e-002  
Coef of Det (r^2) = 0.999649 Curve Fit: Linear  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,2-Dichloroethane (EDC)

Response Ratio



Response =  $3.922e-001 * Amt + 1.631e-003$

Coef of Det ( $r^2$ ) = 0.999773 Curve Fit: wlr(1/a)

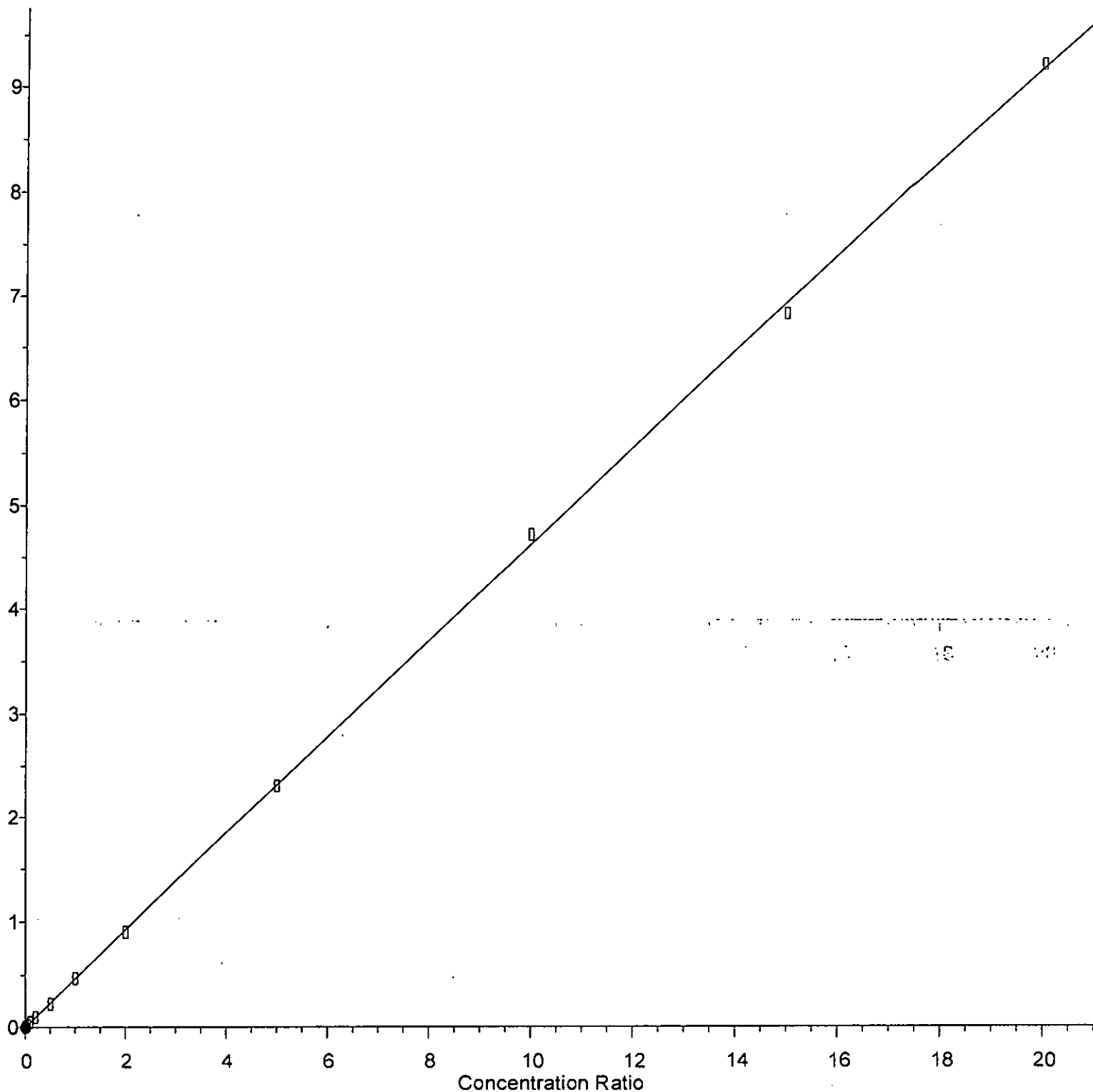
Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022



1,1,1-Trichloroethane

Response Ratio



Response =  $4.629e-001 \cdot \text{Amt} + 5.913e-004$

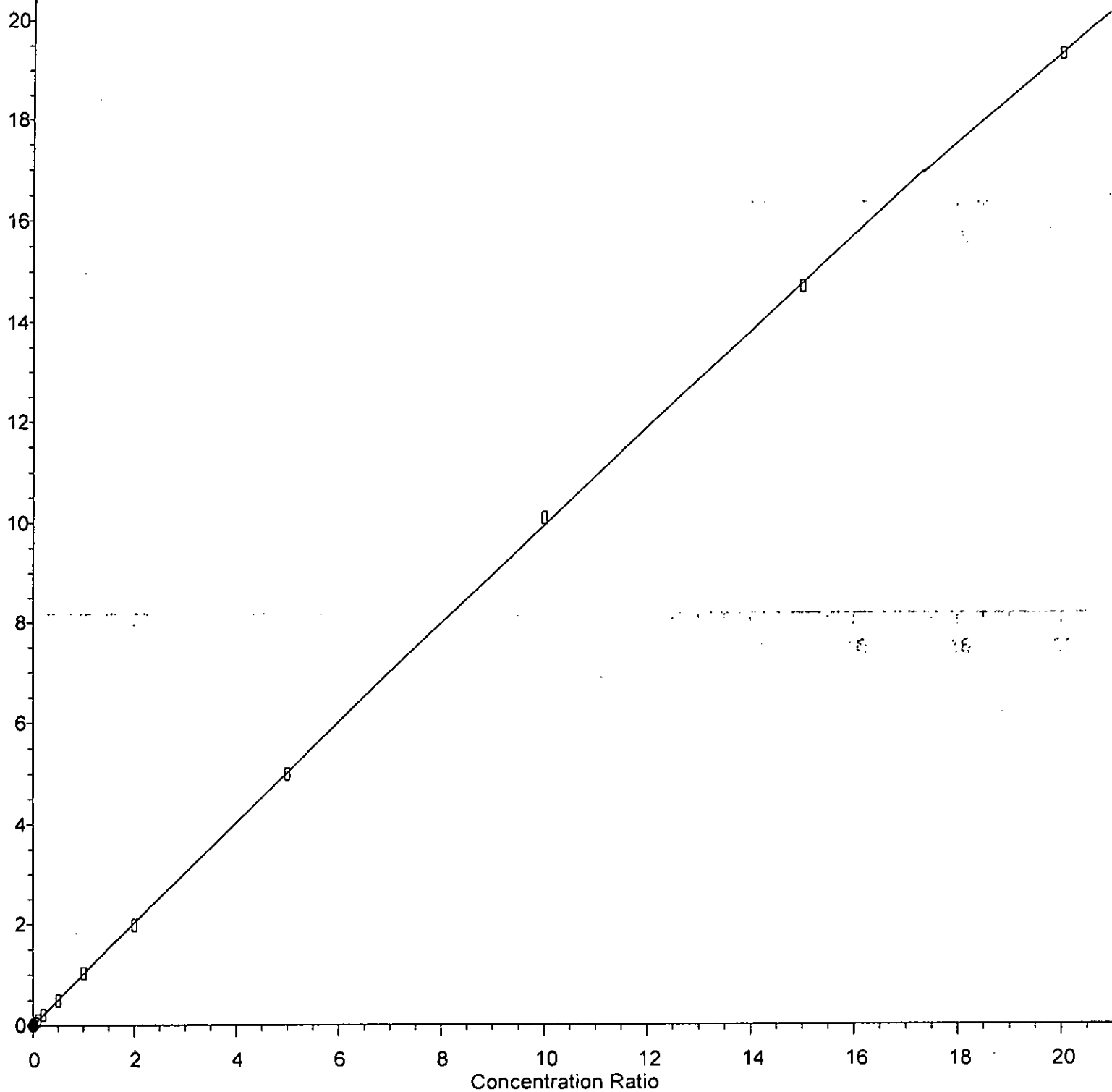
Coef of Det ( $r^2$ ) = 0.999794 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

# Benzene

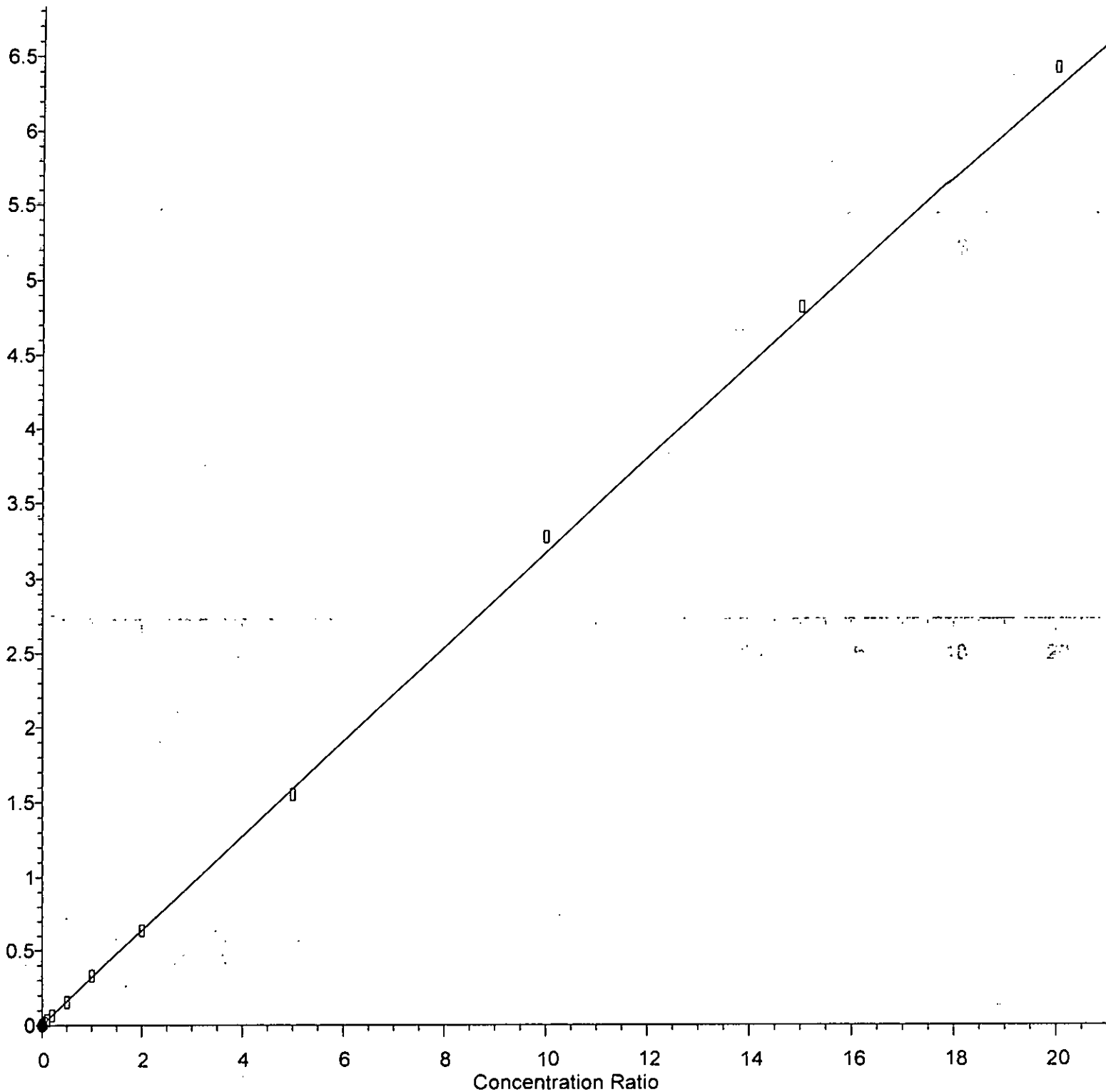
Response Ratio



$R = -1.837e-003 A^2 + 1.015e+000 A + 1.815e-003$   
Coef of Det ( $r^2$ ) = 0.999902 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Trichloroethene

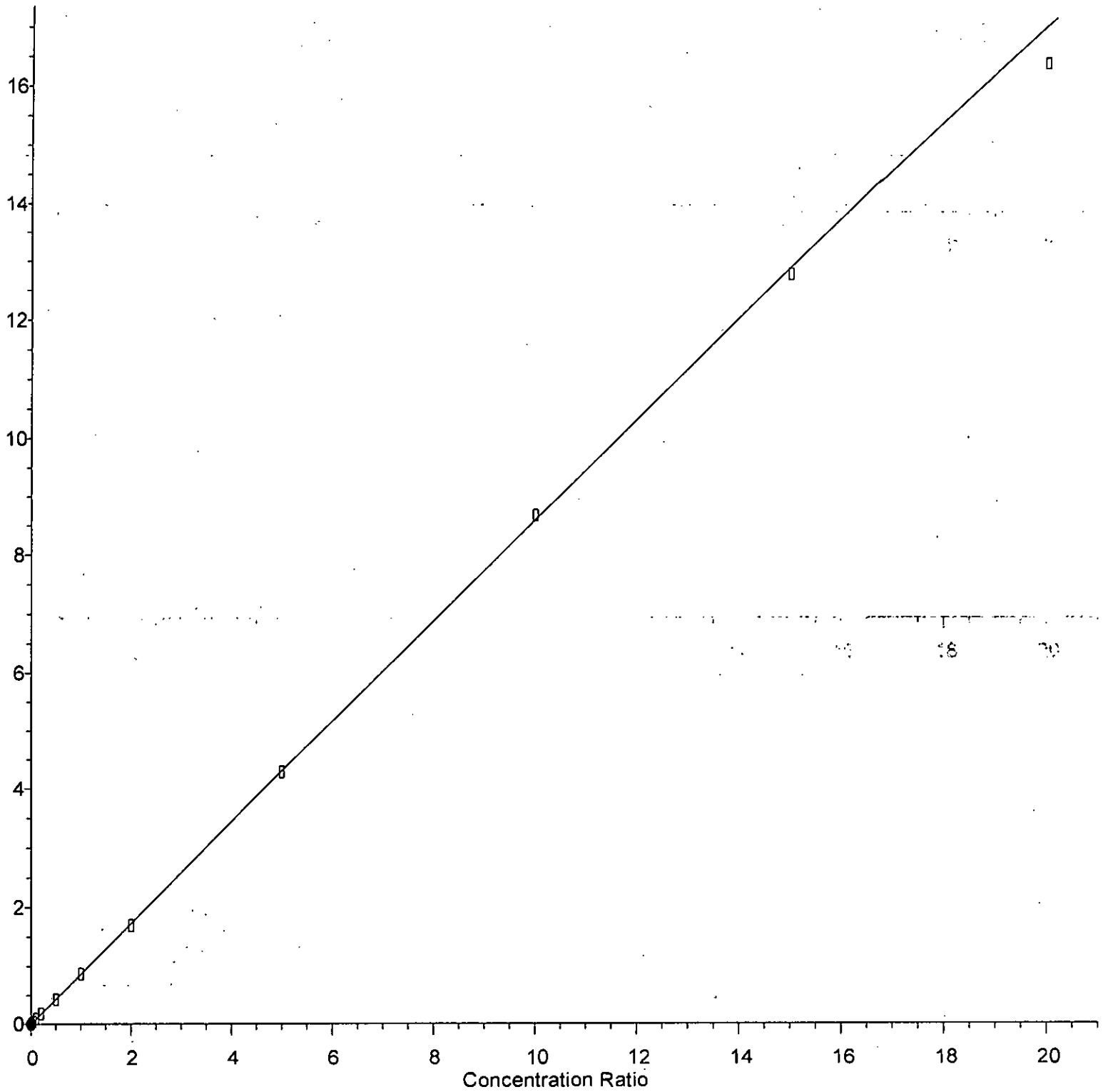
Response Ratio



Response =  $3.178e-001 * Amt + 9.519e-004$   
Coef of Det ( $r^2$ ) = 0.998821 Curve Fit:  $wlr(1/a^2)$   
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Toluene

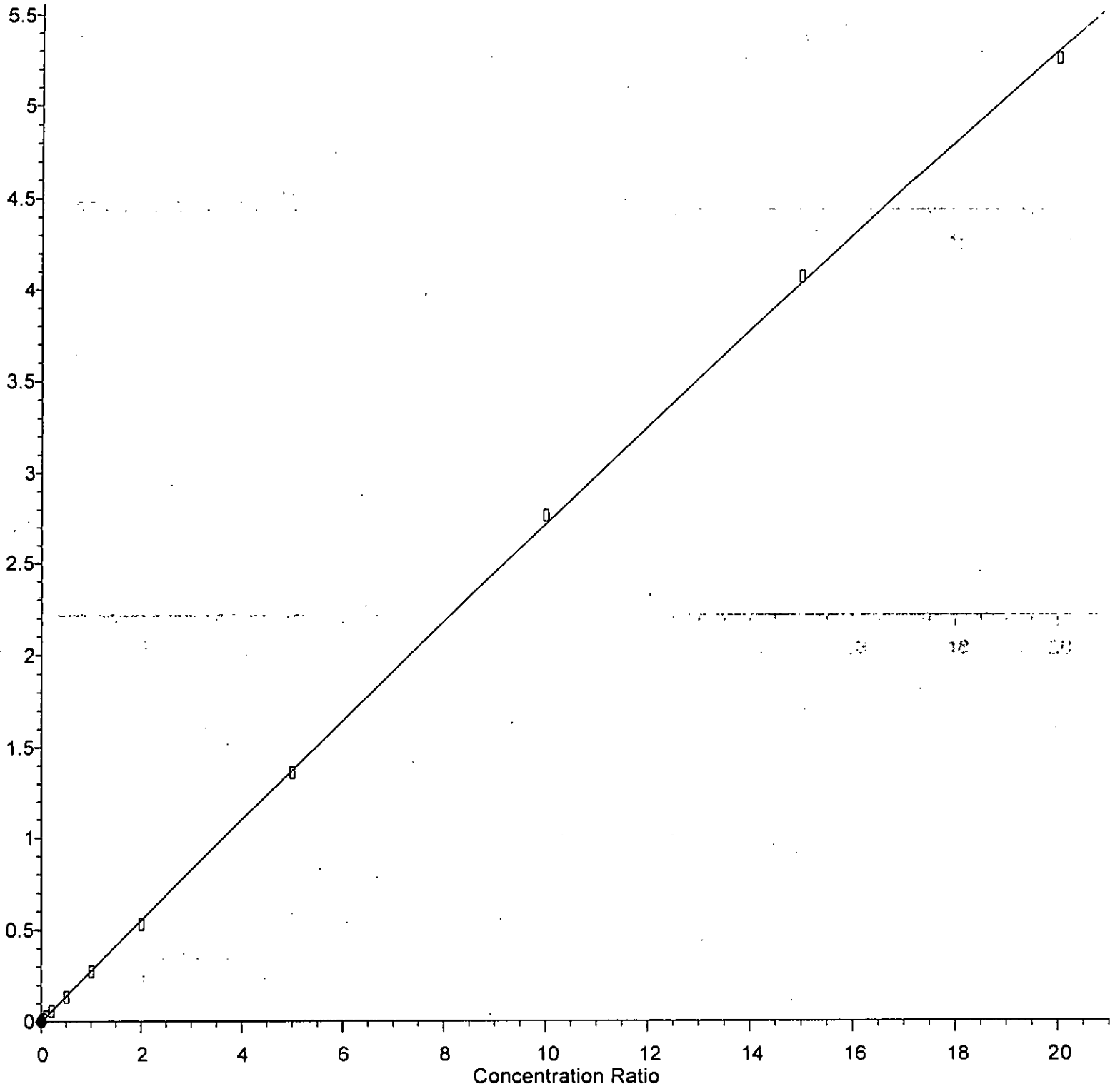
Response Ratio



Response = 8.608e-001 \* Amt + 2.362e-003  
Coef of Det (r^2) = 0.999151 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,1,2-Trichloroethane

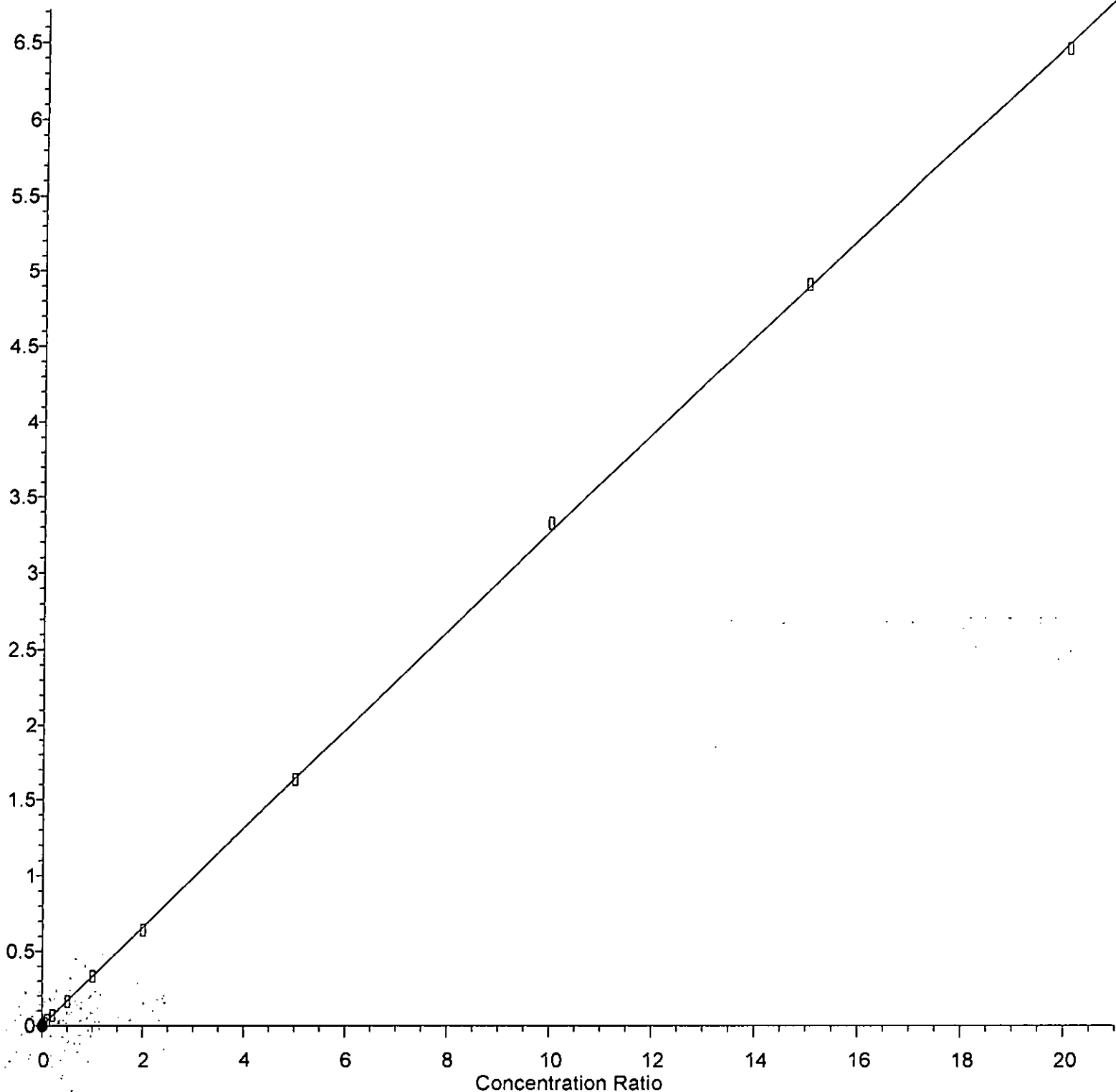
Response Ratio



$R = -5.032e-004 A^2 + 2.771e-001 A + 6.256e-004$   
Coef of Det ( $r^2$ ) = 0.999813 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Tetrachloroethene

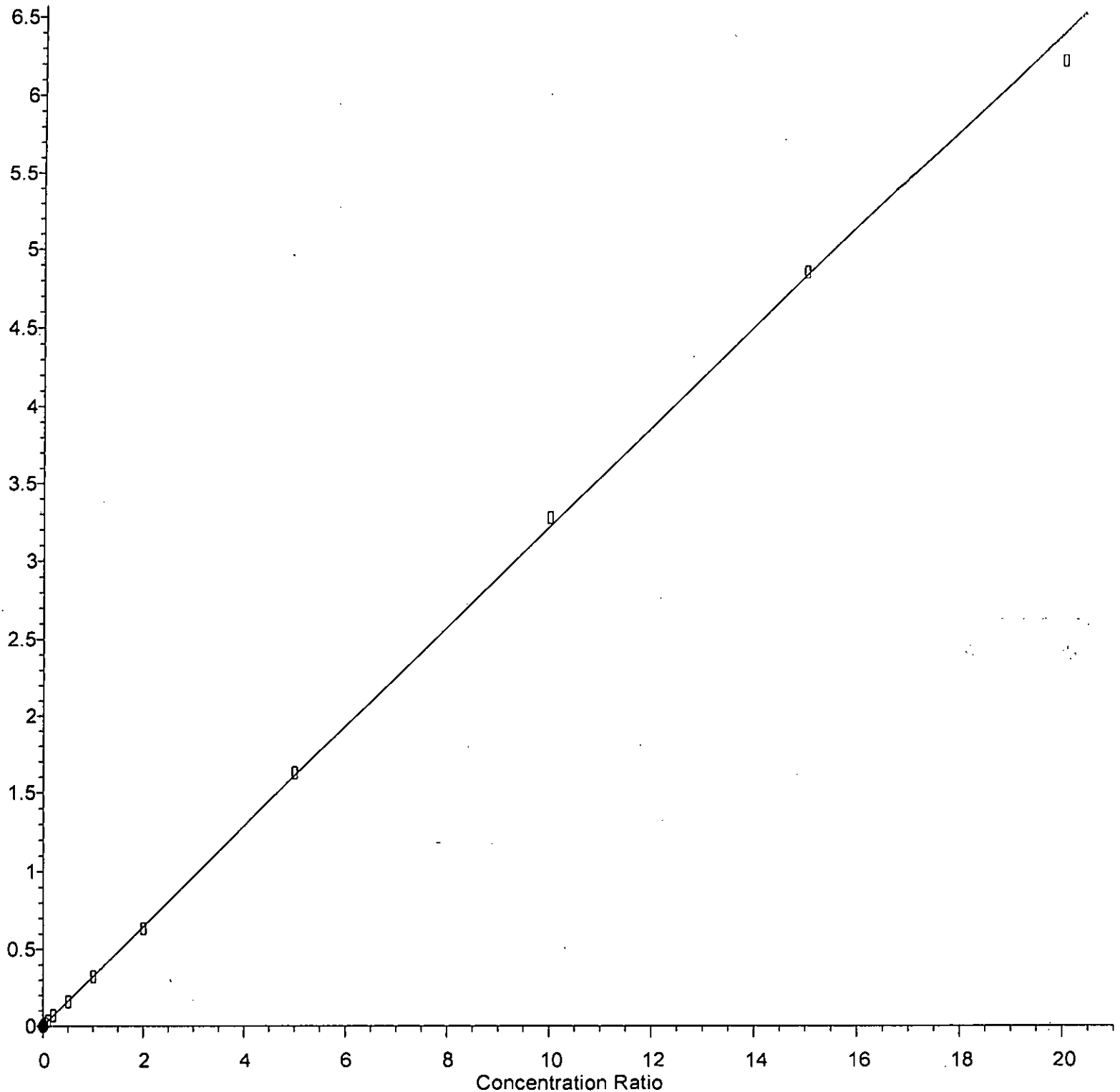
Response Ratio



R = -4.275e-004 A\*A + 3.295e-001 A + 1.735e-003  
Coef of Det (r^2) = 0.999891 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,2-Dibromoethane (EDB)

Response Ratio



Response = 3.219e-001 \* Amt + 1.083e-003

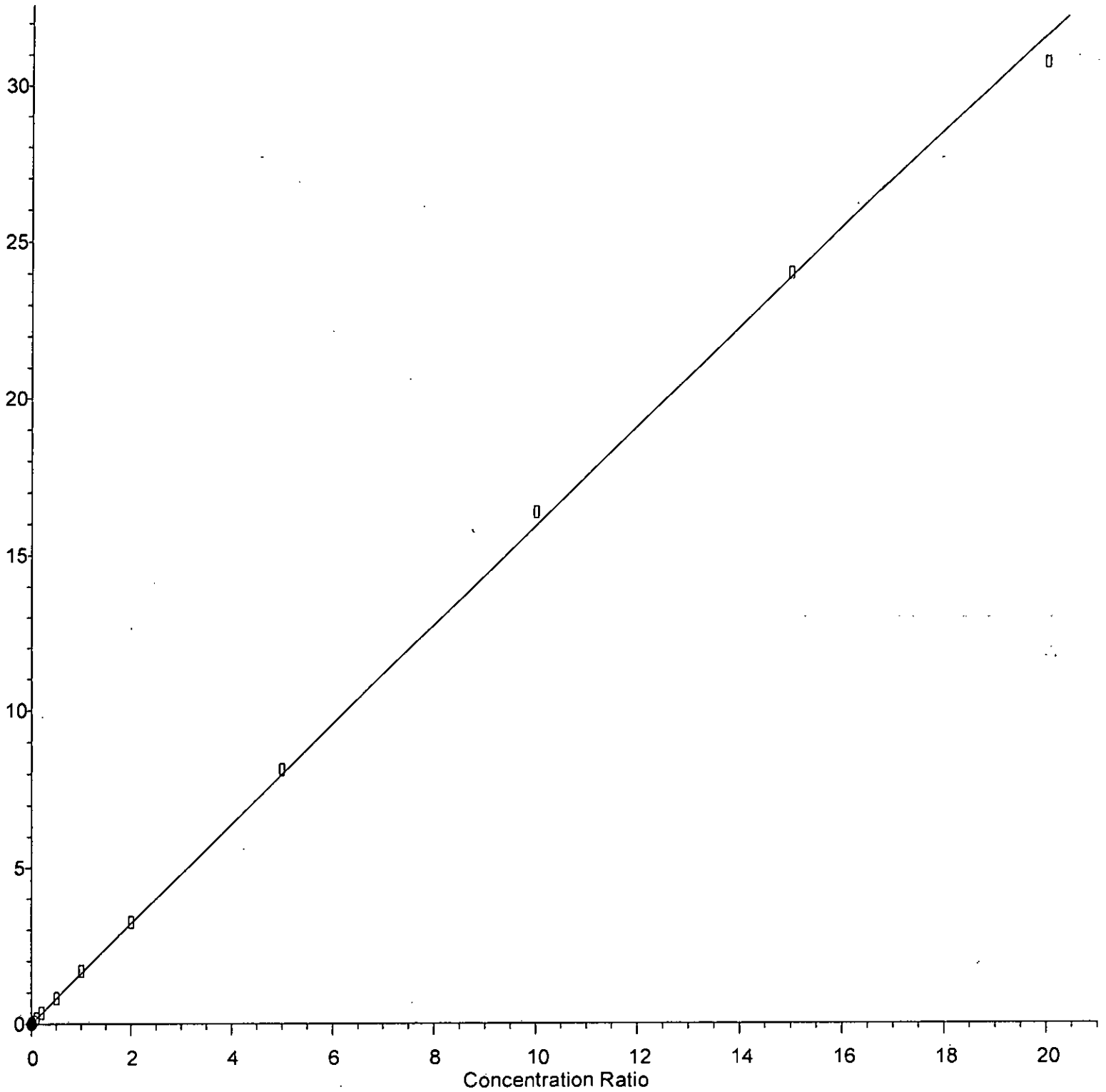
Coef of Det (r^2) = 0.999031 Curve Fit: wlr(1/a^2)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

# Ethylbenzene

Response Ratio



$$\text{Response} = 1.596e+000 * \text{Amt} + 5.460e-003$$

Coef of Det ( $r^2$ ) = 0.999407 Curve Fit: wlr(1/a)

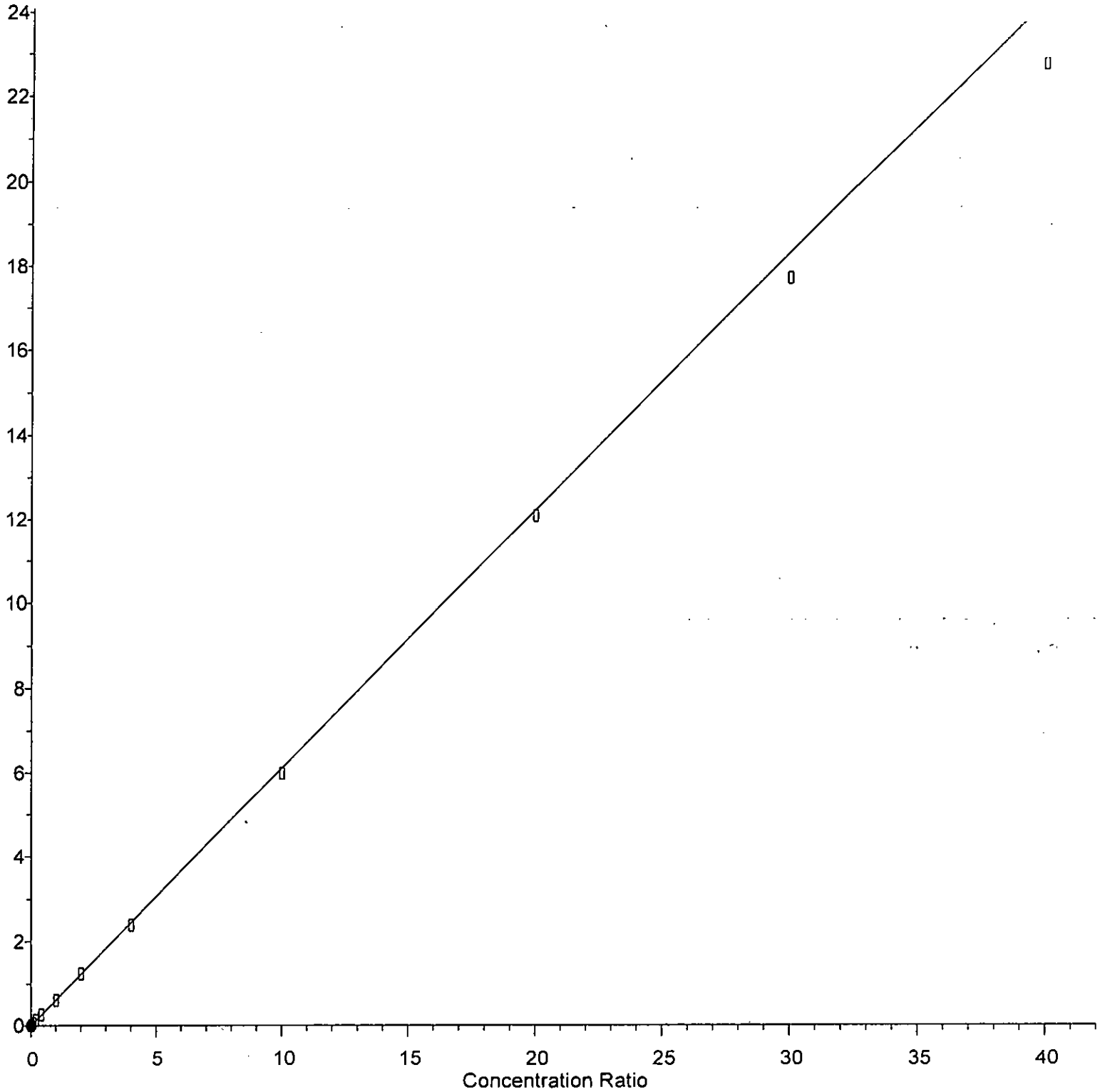
Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022



m,p-Xylene

Response Ratio



Response =  $6.115e-001 \cdot \text{Amt} + 3.543e-003$

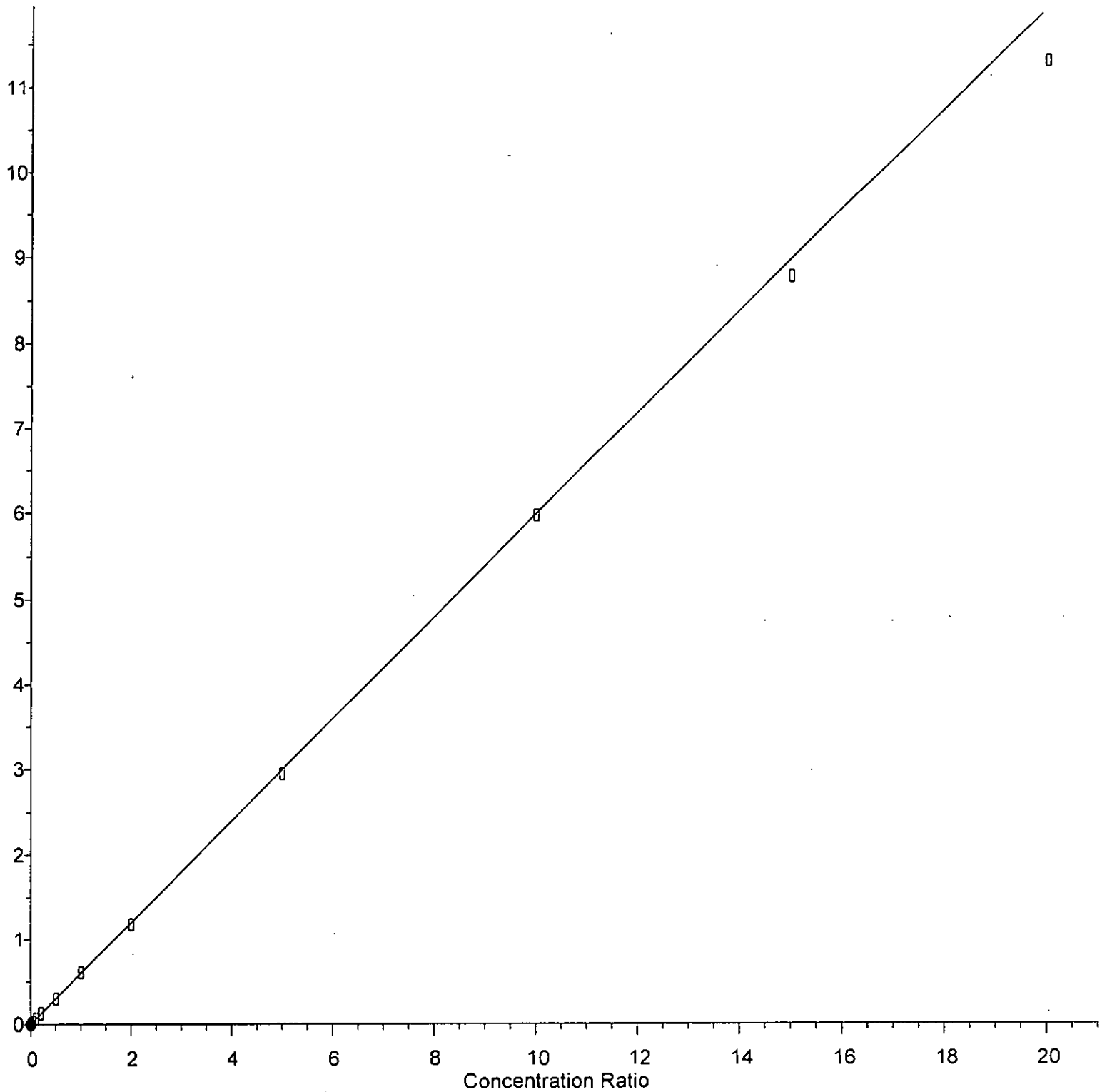
Coef of Det ( $r^2$ ) = 0.998172 Curve Fit: wlr(1/a^2)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

o-Xylene

Response Ratio



Response =  $6.004e-001 \cdot \text{Amt} + 1.549e-003$

Coef of Det ( $r^2$ ) = 0.998489 Curve Fit:  $wlr(1/a^2)$

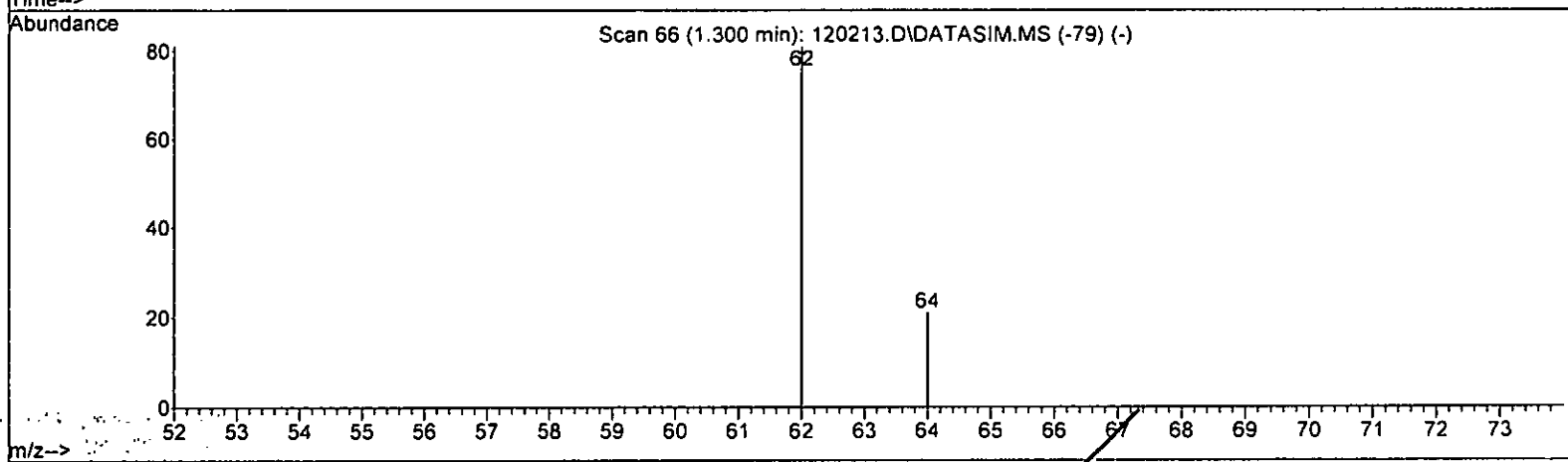
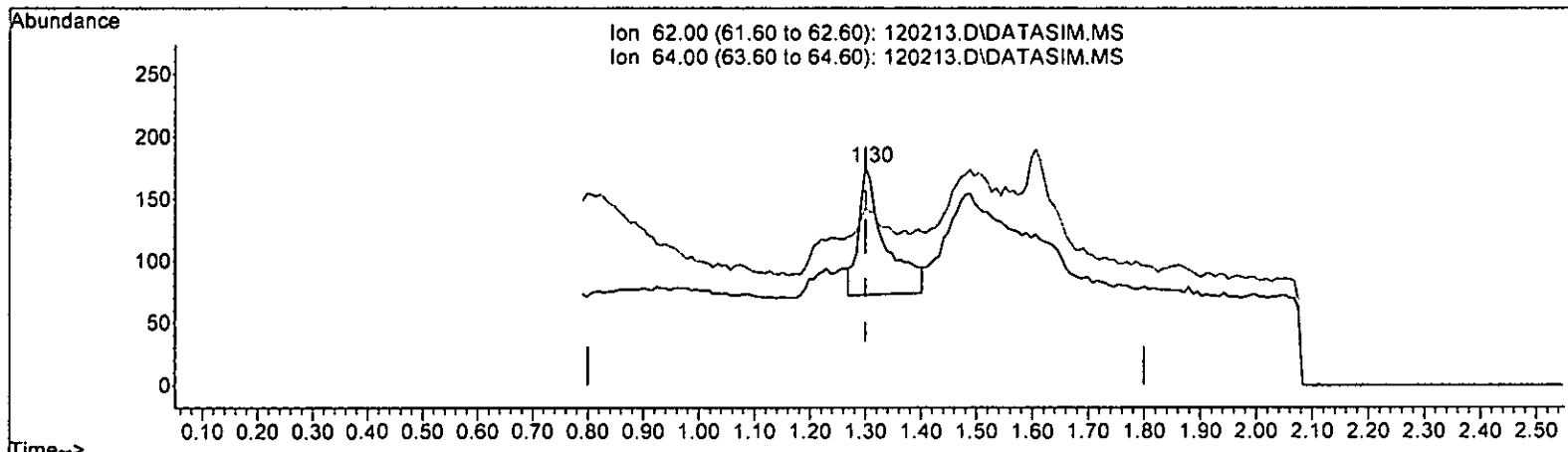
Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 0.075 ppb

response 345

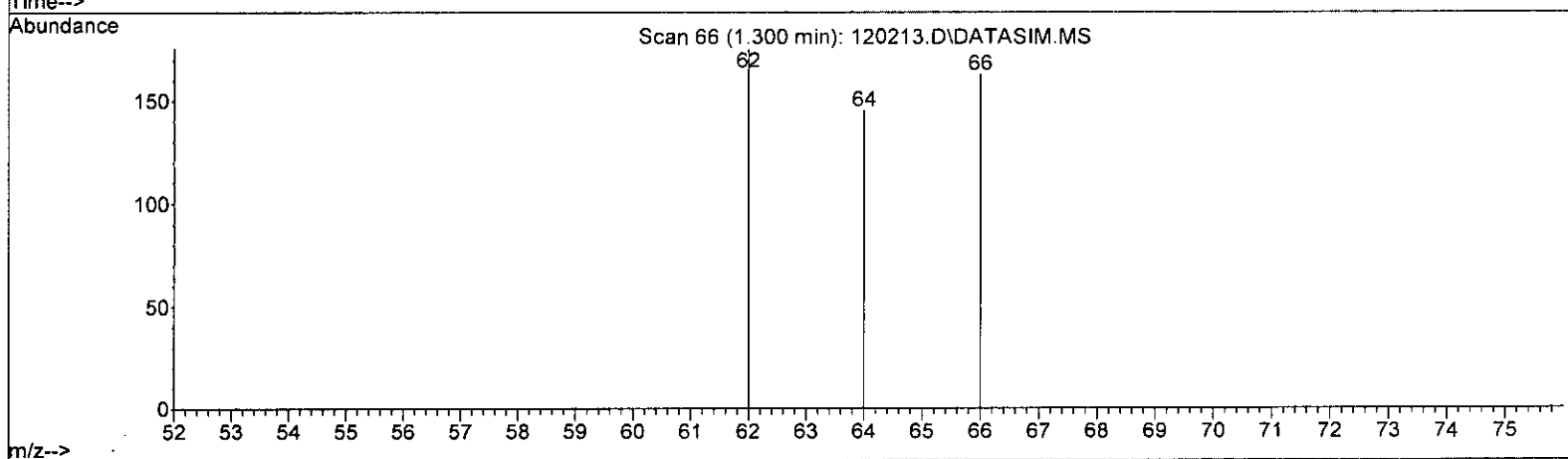
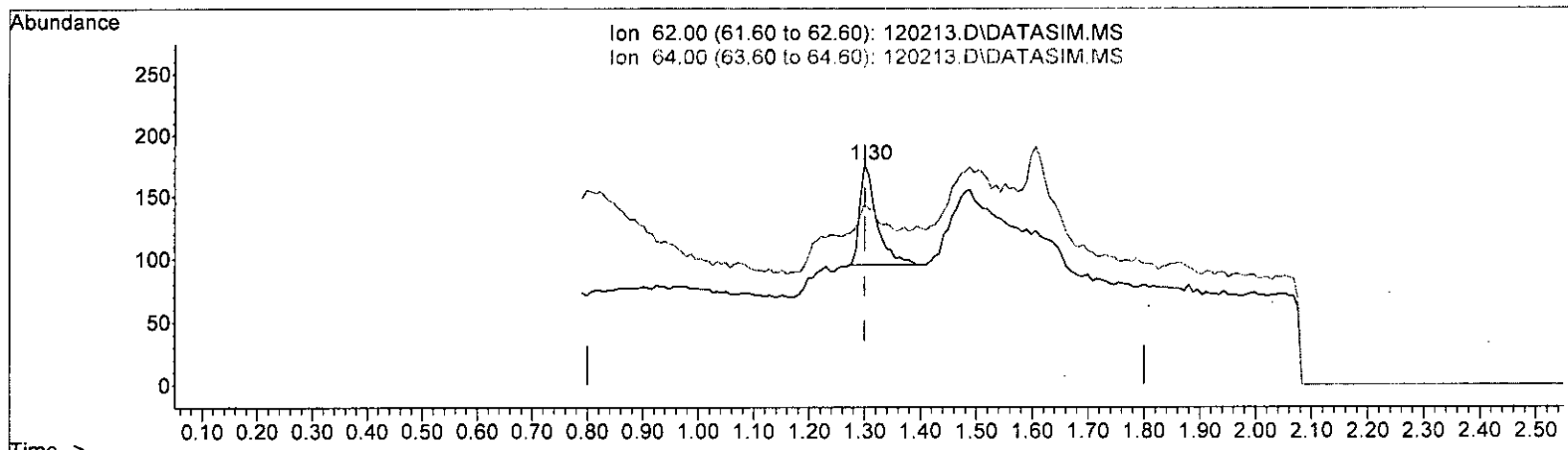
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	30.49
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(6) Vinyl chloride (TMP) *M 12.1*

1.300min (-0.000) 0.022 ppb m

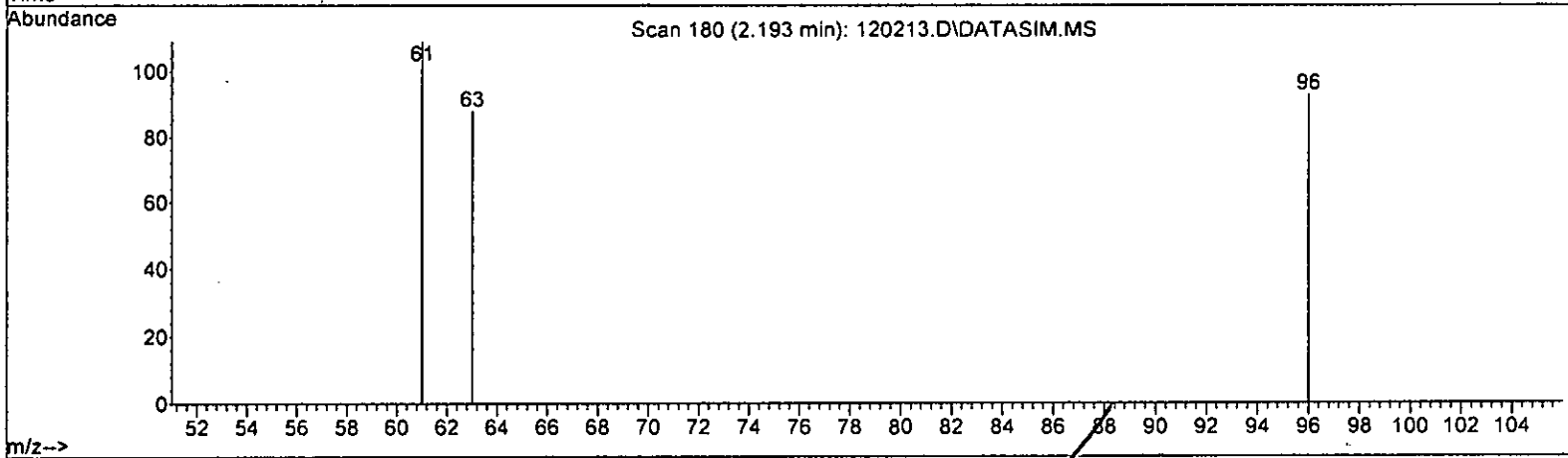
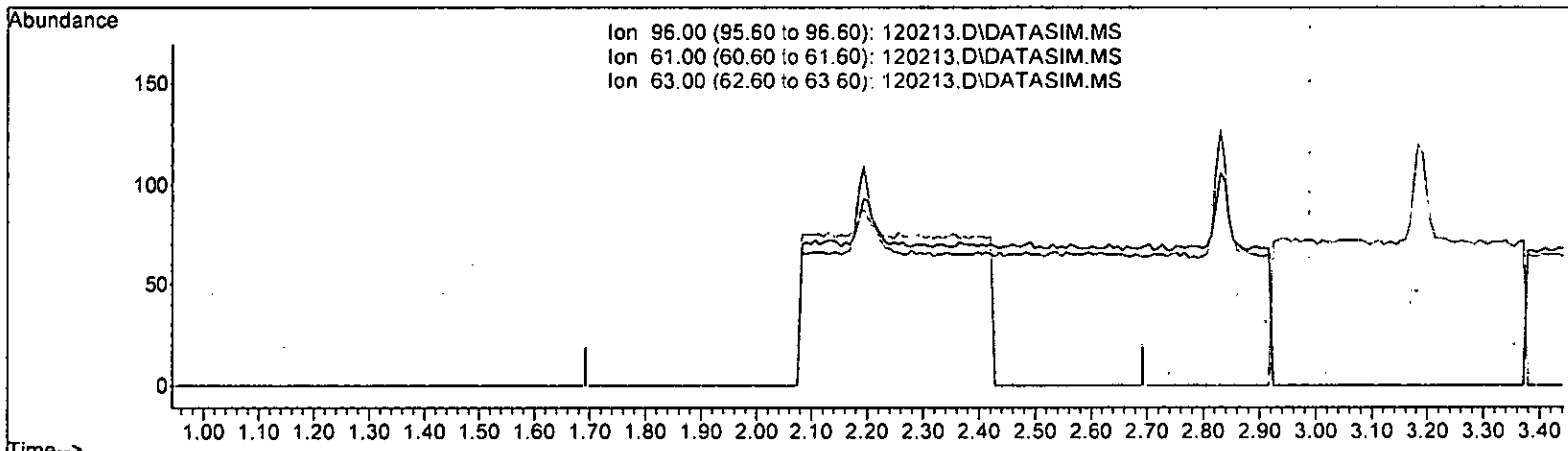
response 169

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	82.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-2.193) 0.000 ppb

response 0

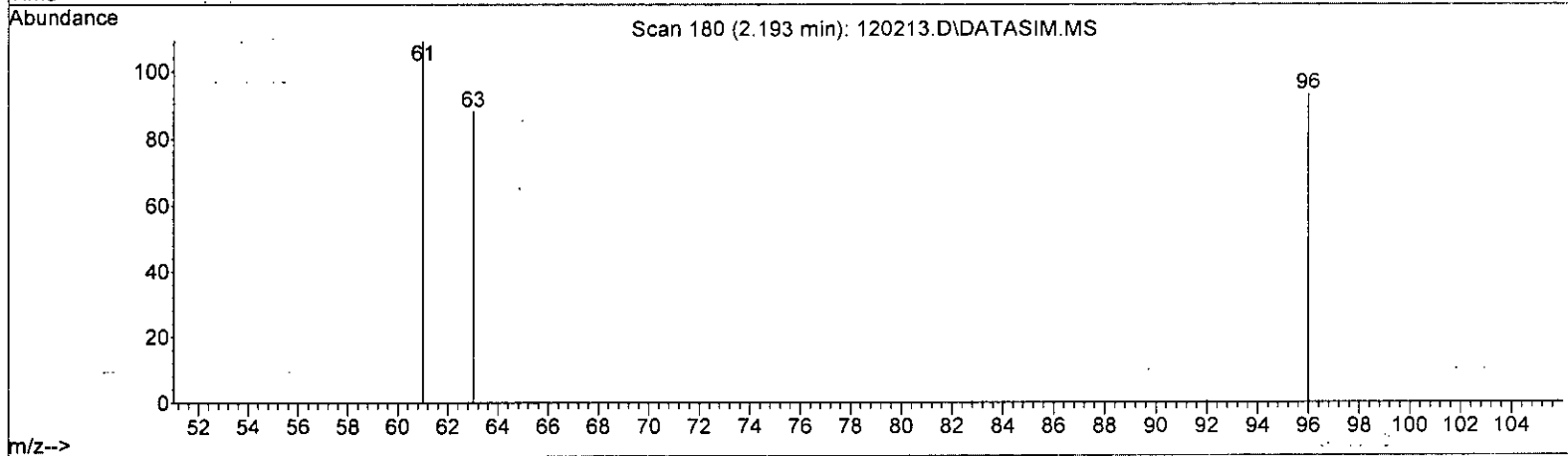
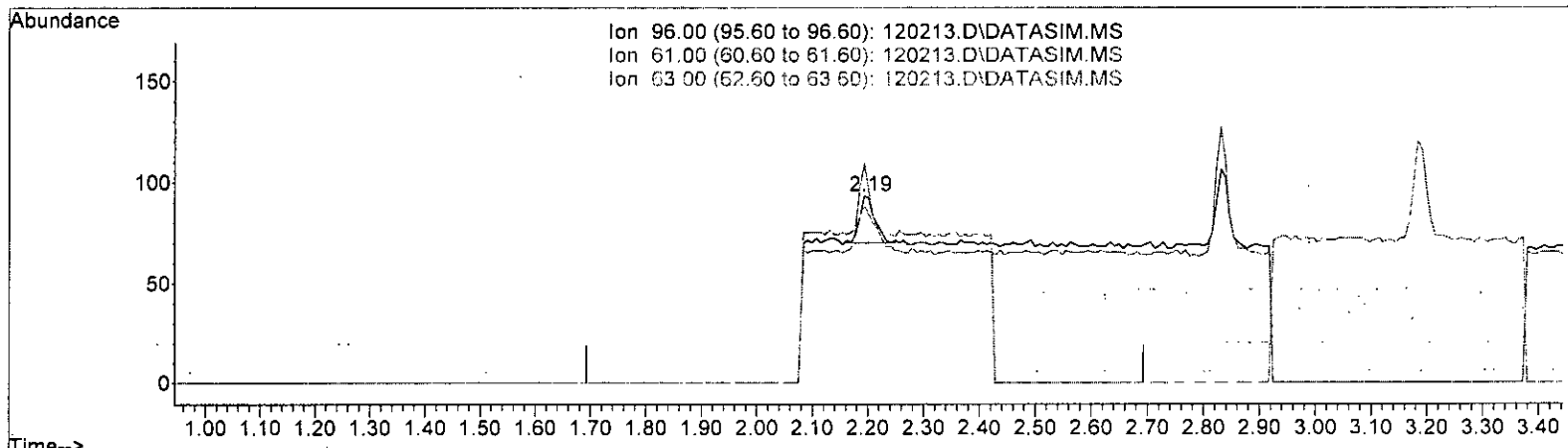
Ion	Exp%	Act%
96.00	100.00	0.00
61.00	148.60	0.00#
63.00	55.30	0.00#
0.00	0.00	0.00

*m 175*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)  
 2.193min (-0.000) 0.020 ppb m

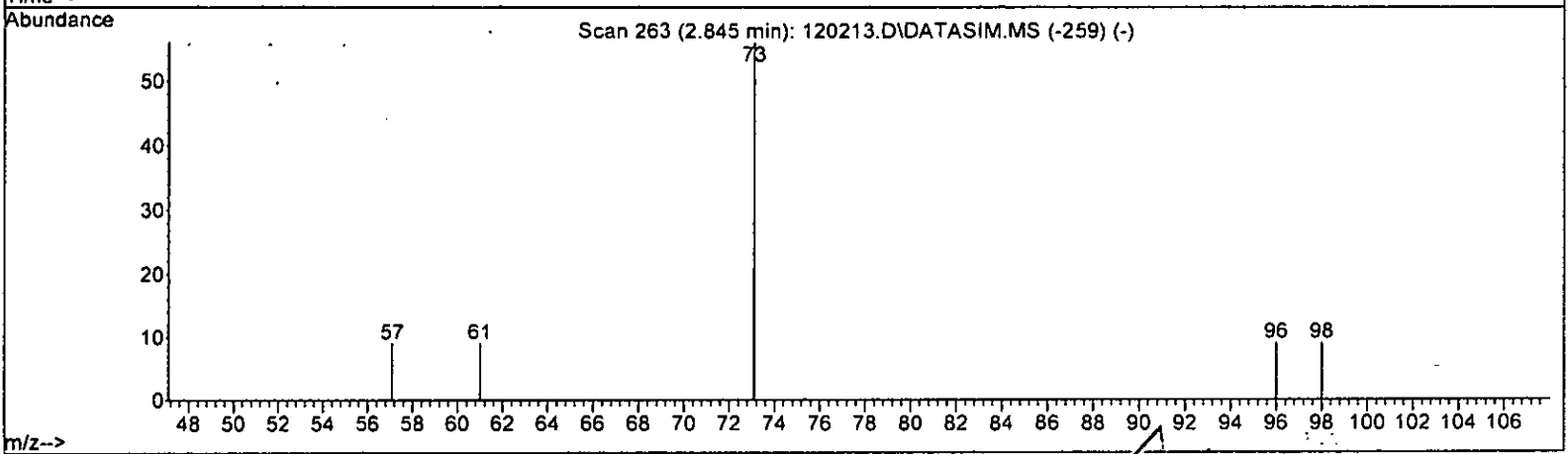
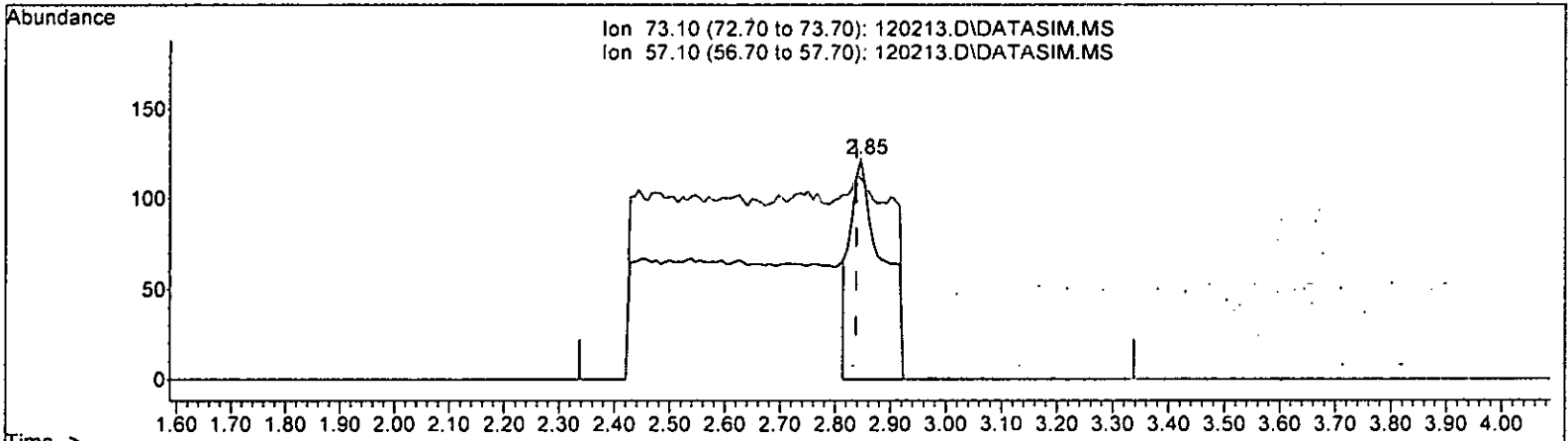
*LM 12.5*

response	43
Ion	Exp% Act%
96.00	100.00 100.00
61.00	148.60 117.20#
63.00	55.30 94.62#
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.007) 0.133 ppb

response 497

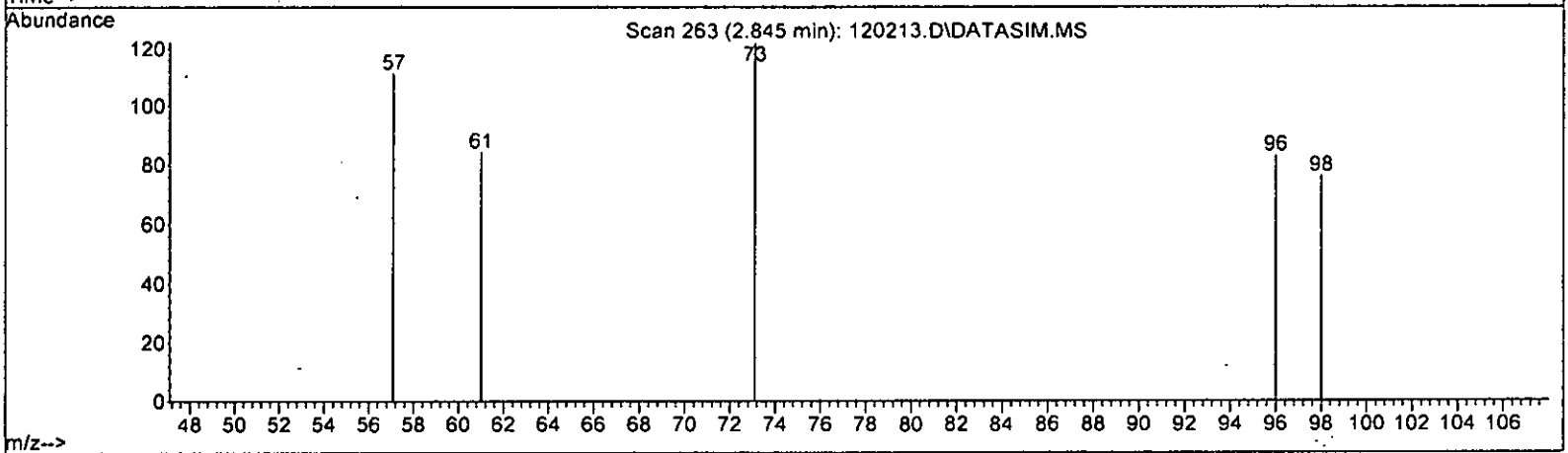
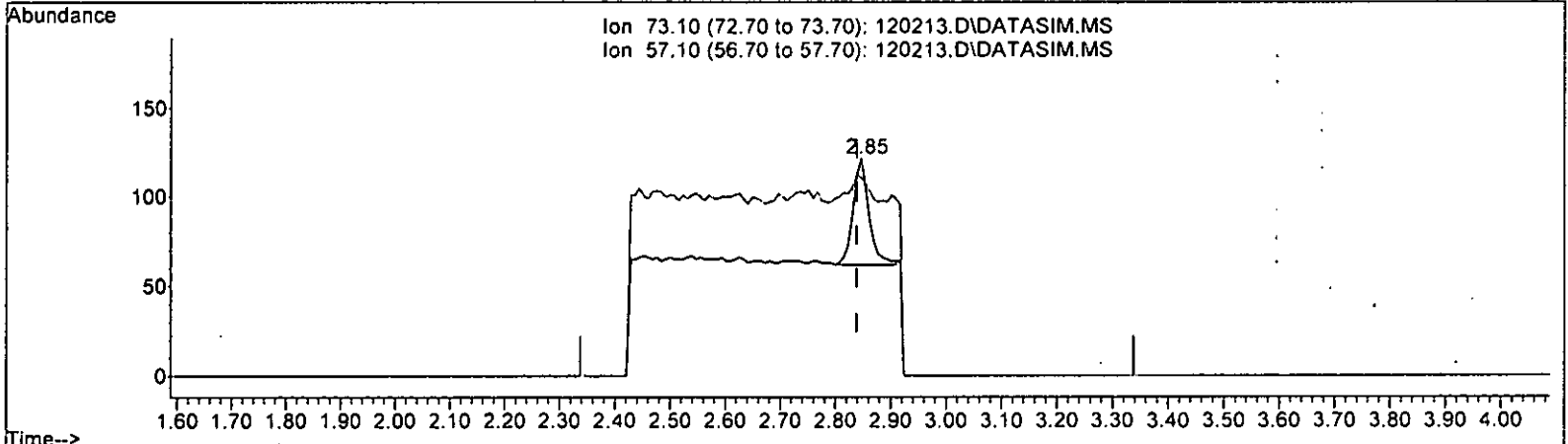
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	90.98#
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP) M 12.5

2.845min (+ 0.007) 0.017 ppb m

response 118

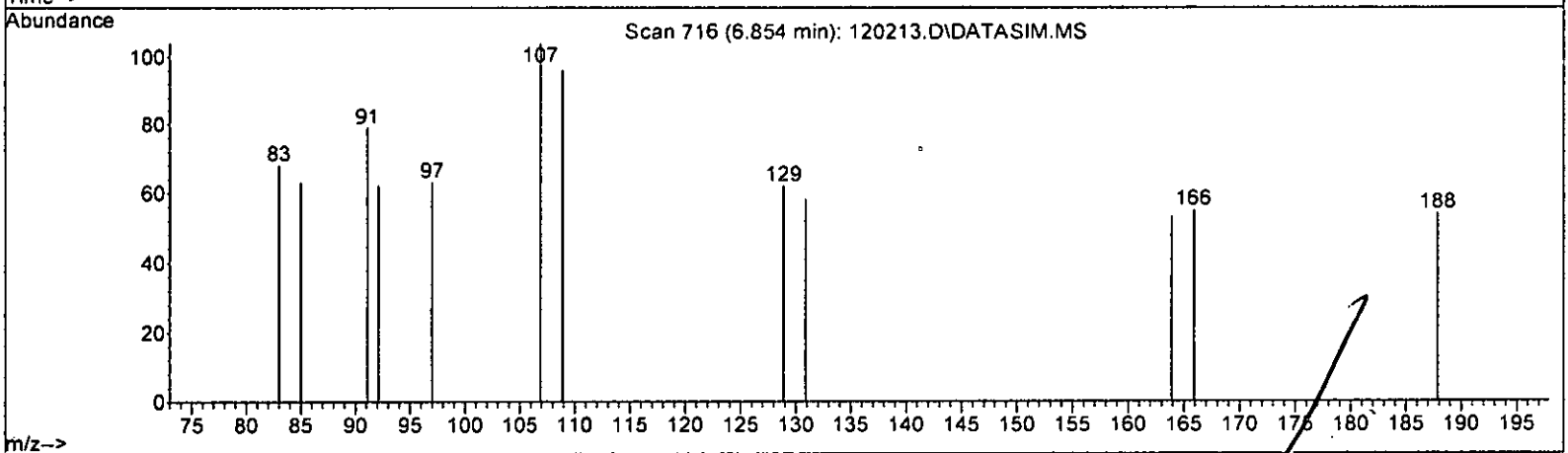
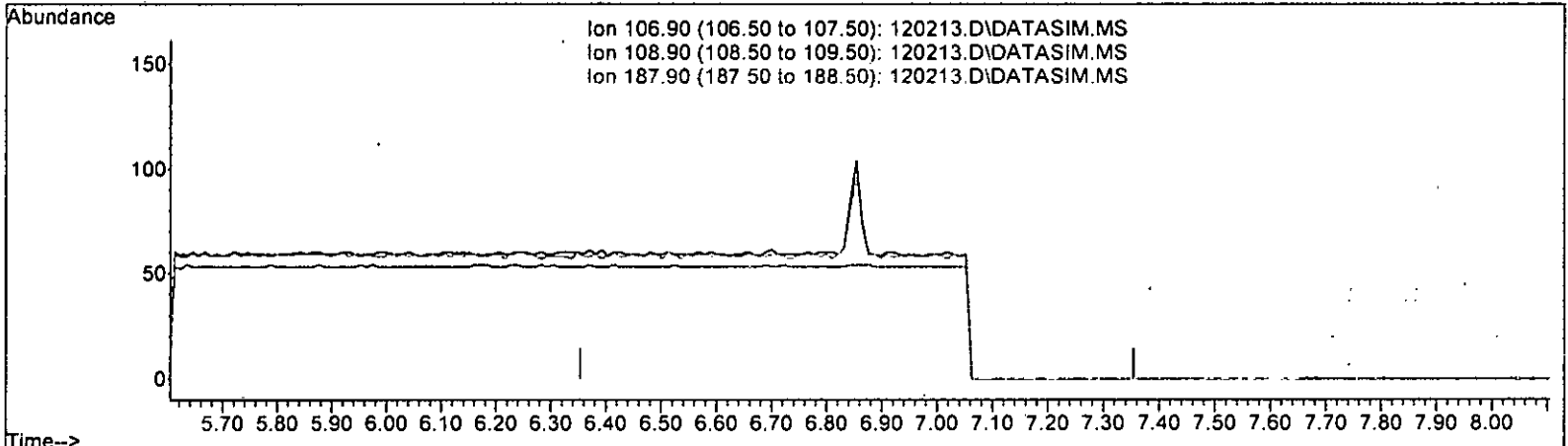
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	90.98#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(47) 1,2-Dibromoethane (EDB) (TMP)

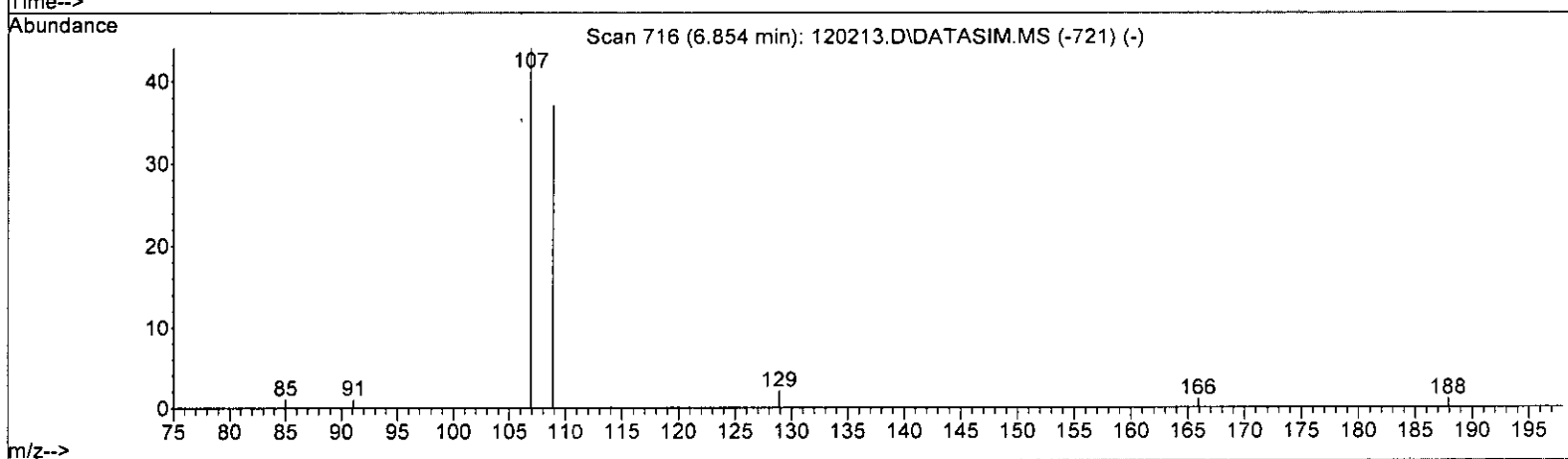
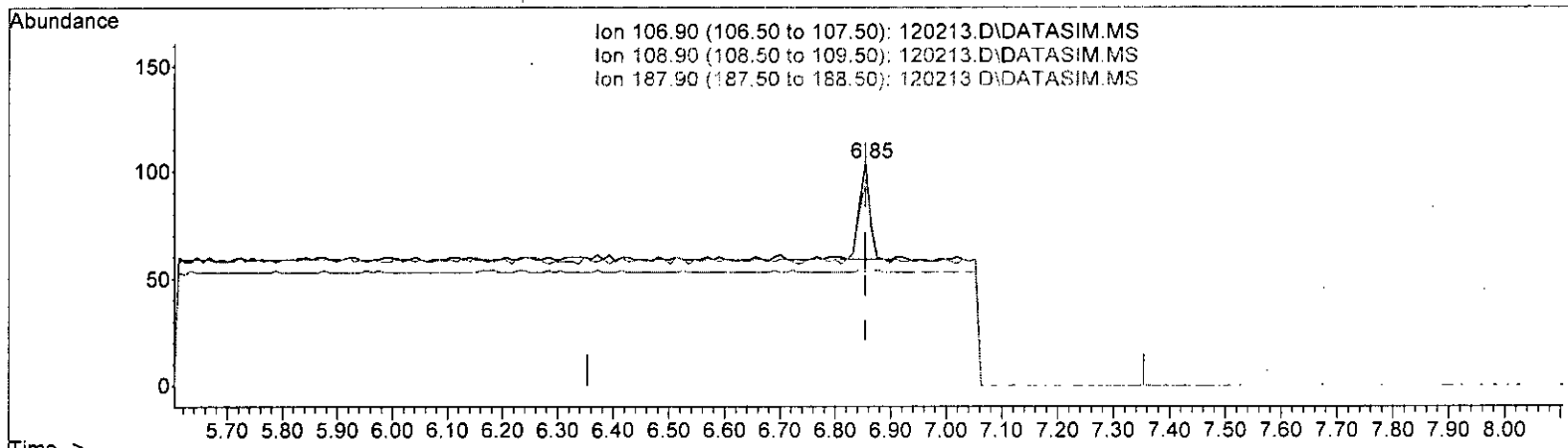
6.854min	0.000 ppb d
response	0
Ion	Exp% Act%
106.90	100.00 0.00
108.90	95.40 0.00
187.90	3.60 0.00
0.00	0.00 0.00

*Handwritten notes:* m, 27, 175

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(47) 1,2-Dibromoethane (EDB) (TMP)

6.854min ( 0.000) 0.017 ppb m

response 57

Ion	Exp%	Act%
106.90	100.00	100.00
108.90	95.40	92.31
187.90	3.60	51.92#
0.00	0.00	0.00

*m 12.5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.712	2.9	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.09#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.23#
6 TMP Vinyl chloride	0.020	0.022	-10.0	91	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.54#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.61#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.77#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.40#
11 TMP Acetone	-1.000	0.000	0.0	0	-2.27#
12 TMP 1,1-Dichloroethene	0.020	0.020	0.0	102	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.06#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.020	0.017	15.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.020	0.017	15.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP 1,1-Dichloroethane	0.020	0.018	10.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.67#
22 TMP cis-1,2-Dichloroethene	0.020	0.019	5.0	100	0.00
23 TMP Chloroform	-1.000	0.000	0.0	0	-3.94#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.71#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.50#
26 TMP 1,2-Dichloroethane (EDC)	0.020	0.020	0.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.020	0.023	-15.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.22#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S 1,2-Dichloroethane-d4	10.000	10.135	-1.3	100	0.00
31 TMP Benzene	0.020	0.021	-5.0	100	0.00
32 TMP Trichloroethene	0.020	0.020	0.0	100	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.13#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S Toluene-d8	10.000	10.026	-0.3	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.23#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.020	0.023	-15.0	106	0.00
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.25#
42 TMP 1,1,2-Trichloroethane	-1.000	0.000	0.0	0	-6.40#
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.020	0.022	-10.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.020	0.017	15.0	93	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP Ethylbenzene	0.020	0.015	25.0#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.040	0.040	0.0	100	0.00
52 TMP o-Xylene	0.020	0.020	0.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-7.90#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.07#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.079	-0.8	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.62#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.51#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.57#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.70#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.81#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.10#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.31#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.42#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.50#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-9.87#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.64#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.44#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.61#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.92#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.256	3.0	100	0.00
4 TMP	Dichlorodifluoromethane	0.712	0.000#	100.0#	0#	-1.09#
5 TMP	Chloromethane	0.951	0.000#	100.0#	0#	-1.23#
6 TMP	Vinyl chloride	0.862	1.903	-120.8#	91	0.00
7 TMP	Bromomethane	0.441	0.000#	100.0#	0#	-1.54#
8 TMP	Chloroethane	0.369	0.000#	100.0#	0#	-1.61#
9 TMP	Trichlorofluoromethane	0.899	0.000#	100.0#	0#	-1.77#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-2.40#
11 TMP	Acetone	0.031	0.000#	100.0#	0#	-2.27#
12 TMP	1,1-Dichloroethene	0.271	0.484	-78.6#	102	0.00
13 TMP	Hexane	0.469	0.000#	100.0#	0#	-3.06#
14 TMP	Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP	t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.74#
16 TMP	Methyl t-butyl ether (MTBE)	0.812	1.329	-63.7#	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.314	0.676	-115.3#	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.953	0.000#	100.0#	0#	-3.24#
19 TMP	1,1-Dichloroethane	0.547	0.923	-68.7#	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.307	0.000#	100.0#	0#	-3.55#
21 TMP	2,2-Dichloropropane	0.347	0.000#	100.0#	0#	-3.67#
22 TMP	cis-1,2-Dichloroethene	0.329	0.631	-91.8#	100	0.00
23 TMP	Chloroform	0.477	0.000#	100.0#	0#	-3.94#
24 TMP	2-Butanone (MEK)	0.184	0.000#	100.0#	0#	-3.71#
25 TMP	t-Amyl methyl ether (TAME)	0.739	0.000#	100.0#	0#	-4.50#
26 TMP	1,2-Dichloroethane (EDC)	0.479	1.205	-151.6#	100	0.00
27 TMP	1,1,1-Trichloroethane	0.494	0.822	-66.4#	100	0.00
28 TMP	1,1-Dichloropropene	0.368	0.000#	100.0#	0#	-4.22#
29 TMP	Carbon tetrachloride	0.396	0.000#	100.0#	0#	-4.21#
30 S	1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP	Benzene	1.103	1.993	-80.7#	100	0.00
32 TMP	Trichloroethene	0.368	0.799	-117.1#	100	0.00
33 TMP	1,2-Dichloropropane	0.315	0.000#	100.0#	0#	-5.13#
34 TMP	Bromodichloromethane	0.375	0.000#	100.0#	0#	-5.37#
35 S	Toluene-d8	0.975	0.978	-0.3	100	0.00
36 TMP	Dibromomethane	0.181	0.000#	100.0#	0#	-5.23#
37 TMP	4-Methyl-2-pentanone	0.054	0.000#	100.0#	0#	-5.91#
38 TMP	cis-1,3-Dichloropropene	0.443	0.000#	100.0#	0#	-5.75#
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.986	2.162	-119.3#	106	0.00
41 TMP	trans-1,3-Dichloropropene	0.508	0.000#	100.0#	0#	-6.25#
42 TMP	1,1,2-Trichloroethane	0.285	0.000#	100.0#	0#	-6.40#
43 TMP	2-Hexanone	0.312	0.000#	100.0#	0#	-6.64#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.420	1.223	-191.2#	100	0.00
46 TMP Dibromochloromethane	0.366	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.811	-114.0#	93	0.00
48 TMP Chlorobenzene	0.957	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.885	3.911	-107.5#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.705	1.501	-112.9#	100	0.00
52 TMP o-Xylene	0.683	1.380	-102.0#	100	0.00
53 TMP Styrene	1.004	0.000#	100.0#	0#	-7.90#
54 TMP Isopropylbenzene	1.606	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.269	0.000#	100.0#	0#	-8.07#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.871	-0.8	100	0.00
58 TMP n-Propylbenzene	3.386	0.000#	100.0#	0#	-8.62#
59 TMP Bromobenzene	0.790	0.000#	100.0#	0#	-8.51#
60 TMP 1,3,5-Trimethylbenzene	2.482	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.599	0.000#	100.0#	0#	-8.57#
63 TMP 2-Chlorotoluene	2.054	0.000#	100.0#	0#	-8.70#
64 TMP 4-Chlorotoluene	2.355	0.000#	100.0#	0#	-8.81#
65 TMP tert-Butylbenzene	2.194	0.000#	100.0#	0#	-9.10#
66 TMP 1,2,4-Trimethylbenzene	2.575	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	3.160	0.000#	100.0#	0#	-9.31#
68 TMP p-Isopropyltoluene	2.706	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.469	0.000#	100.0#	0#	-9.42#
70 TMP 1,4-Dichlorobenzene	1.498	0.000#	100.0#	0#	-9.50#
71 TMP 1,2-Dichlorobenzene	1.361	0.000#	100.0#	0#	-9.87#
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.000#	100.0#	0#	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.978	0.000#	100.0#	0#	-11.44#
74 TMP Hexachlorobutadiene	0.516	0.000#	100.0#	0#	-11.61#
75 TMP Naphthalene	2.401	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.885	0.000#	100.0#	0#	-11.92#

(#) = Out of Range

SPCC's out = 52 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	44408	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35154	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19419	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11367	9.712	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.10%
30) 1,2-Dichloroethane-d4	4.36	102	2683	10.135	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	101.30%
35) Toluene-d8	5.98	98	43431	10.026	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	100.30%
57) 4-Bromofluorobenzene	8.38	95	16912	10.079	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	0.00		0	N.D.	d	
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.30	62	169m	0.022	ppb	
7) Bromomethane	0.00		0	N.D.		
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.	d	
10) 2-Propanol	0.00		0	N.D.	d	
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.19	96	43m	0.020	ppb	
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16] Methyl t-butyl ether (...)	2.85	73	118m	0.017	ppb	
17] trans-1,2-Dichloroethene	2.83	96	60	0.017	ppb	87
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d	
19] 1,1-Dichloroethane	3.18	63	82	0.018	ppb	97
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	0.00		0	N.D.	d	
22] cis-1,2-Dichloroethene	3.67	96	56	0.019	ppb	90
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26] 1,2-Dichloroethane (EDC)	4.42	62	107	0.020	ppb	96
27] 1,1,1-Trichloroethane	4.08	97	73	0.023	ppb	93
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.		
31] Benzene	4.39	78	177	0.021	ppb	96
32] Trichloroethene	4.93	95	71	0.020	ppb	91
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

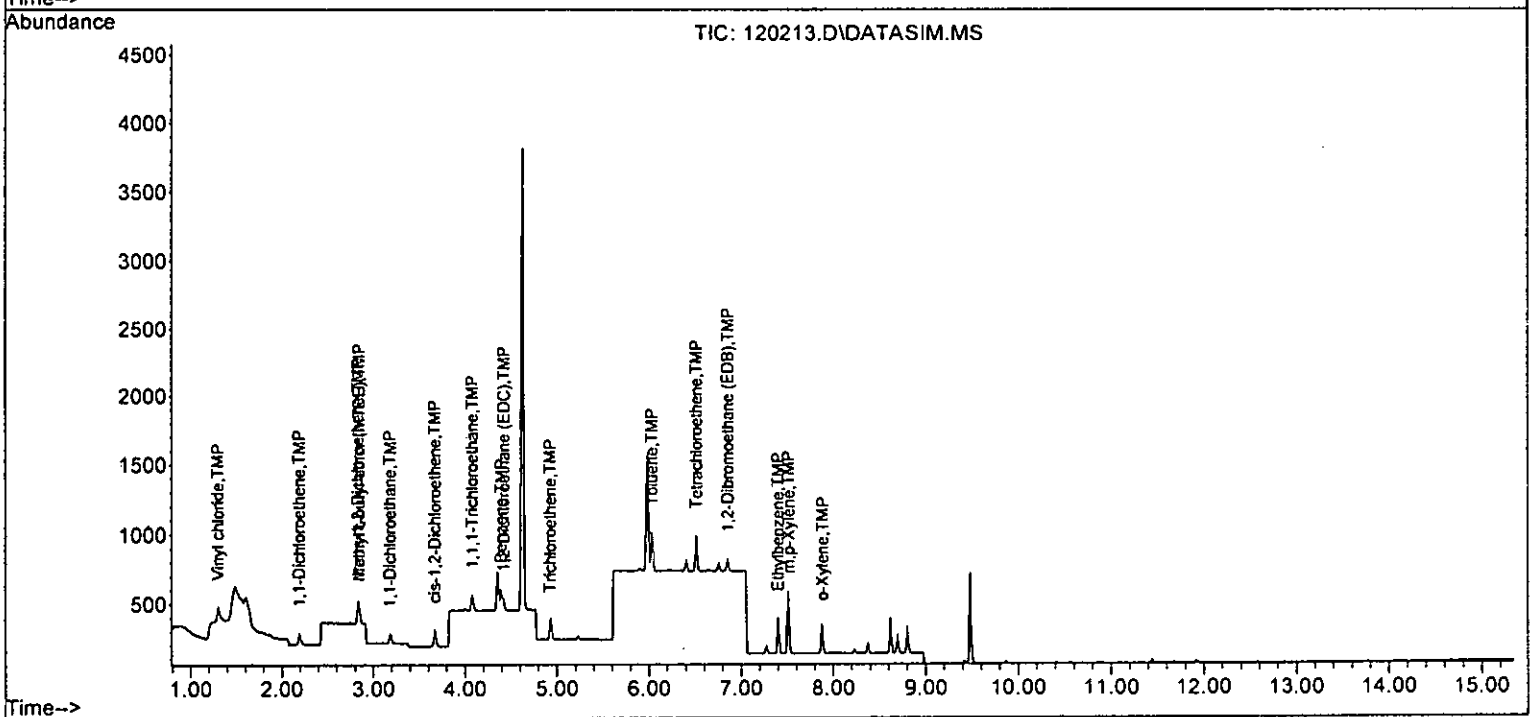
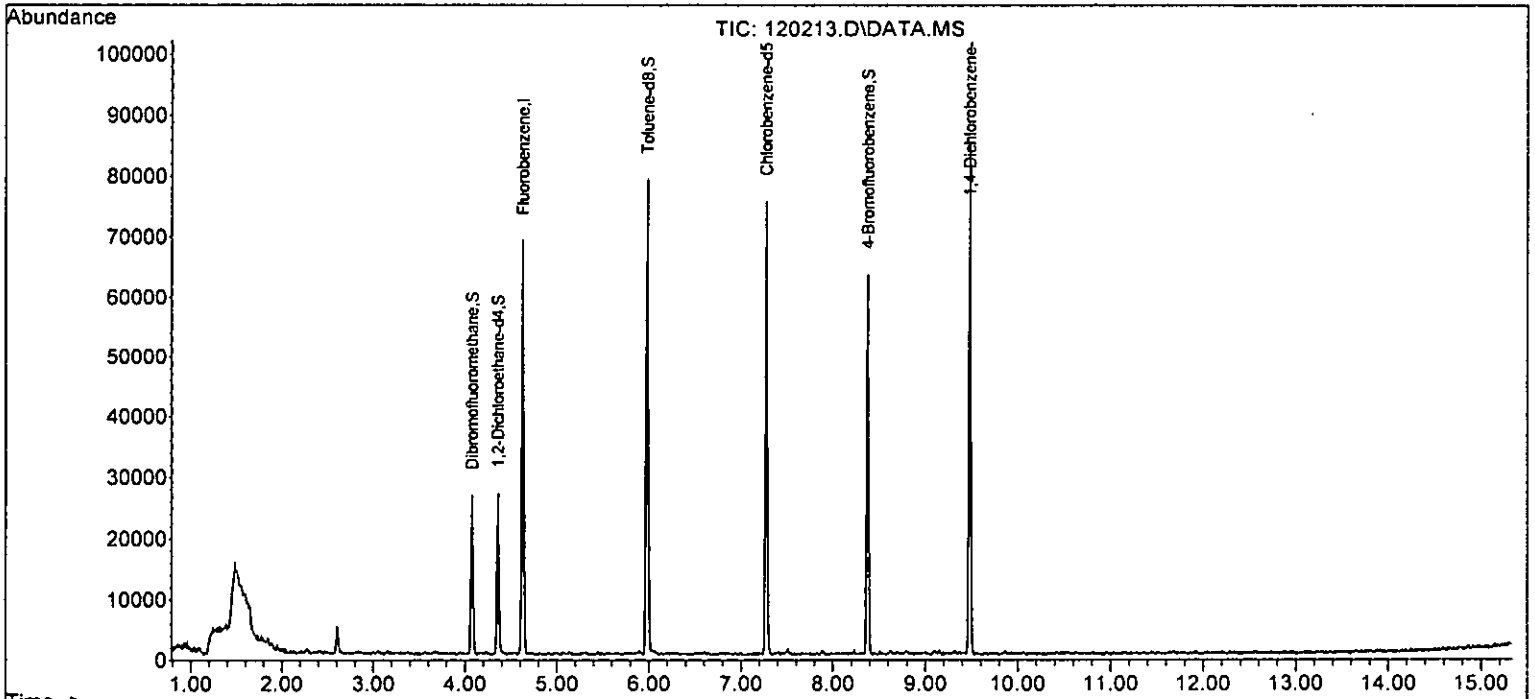
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.03	92	152	0.023	ppb	98
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42) 1,1,2-Trichloroethane	0.00		0	N.D.		
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.		
45] Tetrachloroethene	6.51	164	86	0.022	ppb	95
46) Dibromochloromethane	0.00		0	N.D.		
47] 1,2-Dibromoethane (EDB)	6.85	107	57m	0.017	ppb	
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.40	91	275	0.015	ppb	97
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51] m,p-Xylene	7.52	106	211	0.040	ppb	# 72
52] o-Xylene	7.88	106	97	0.020	ppb	100
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

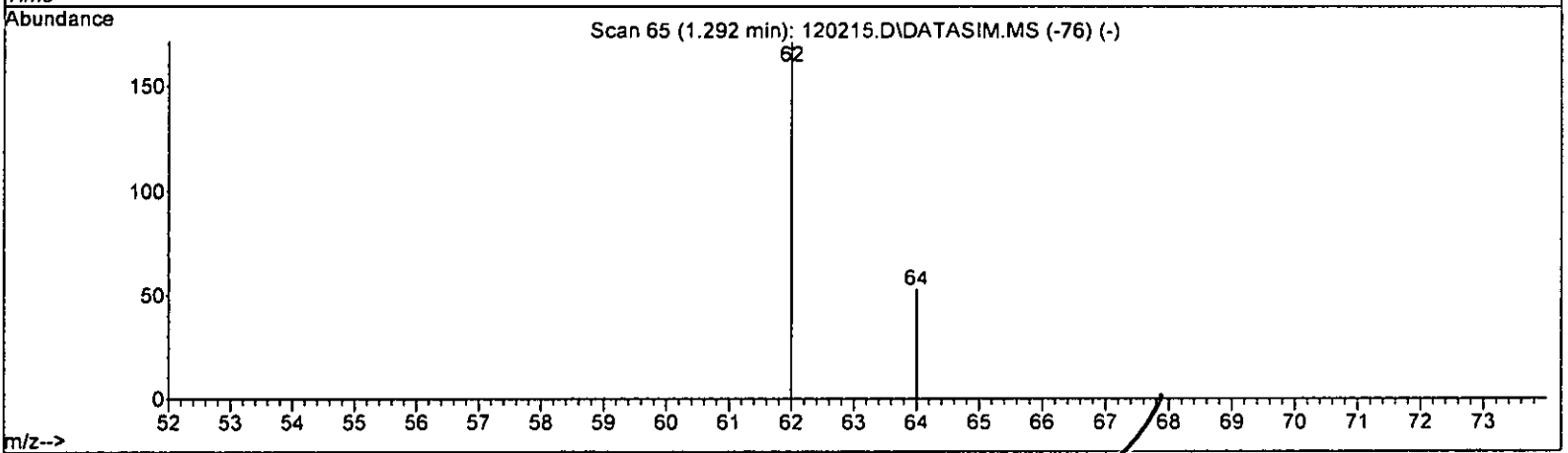
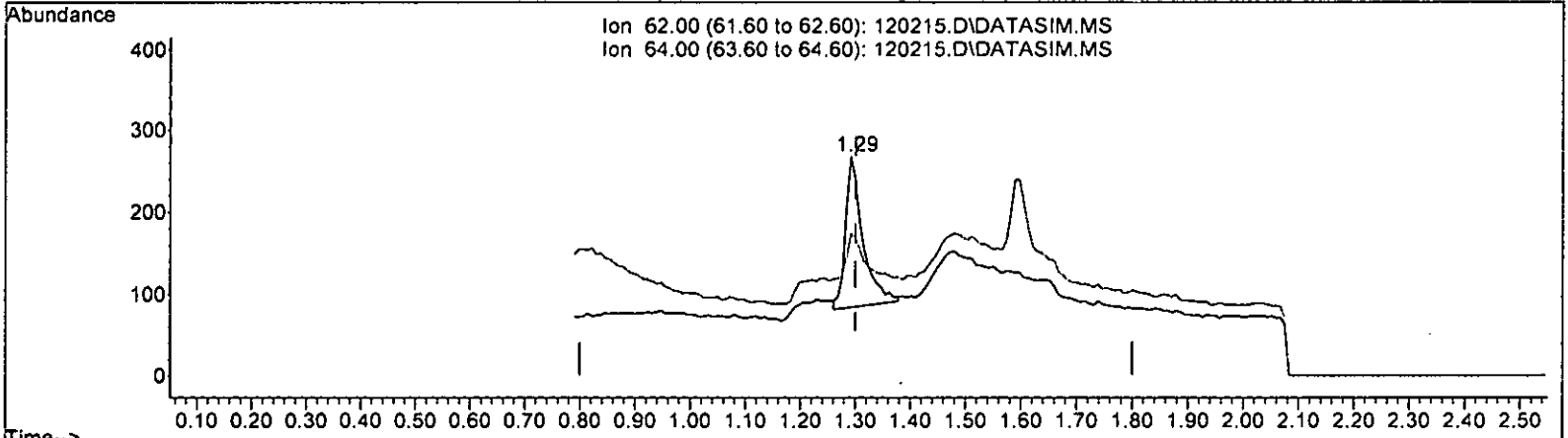
Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

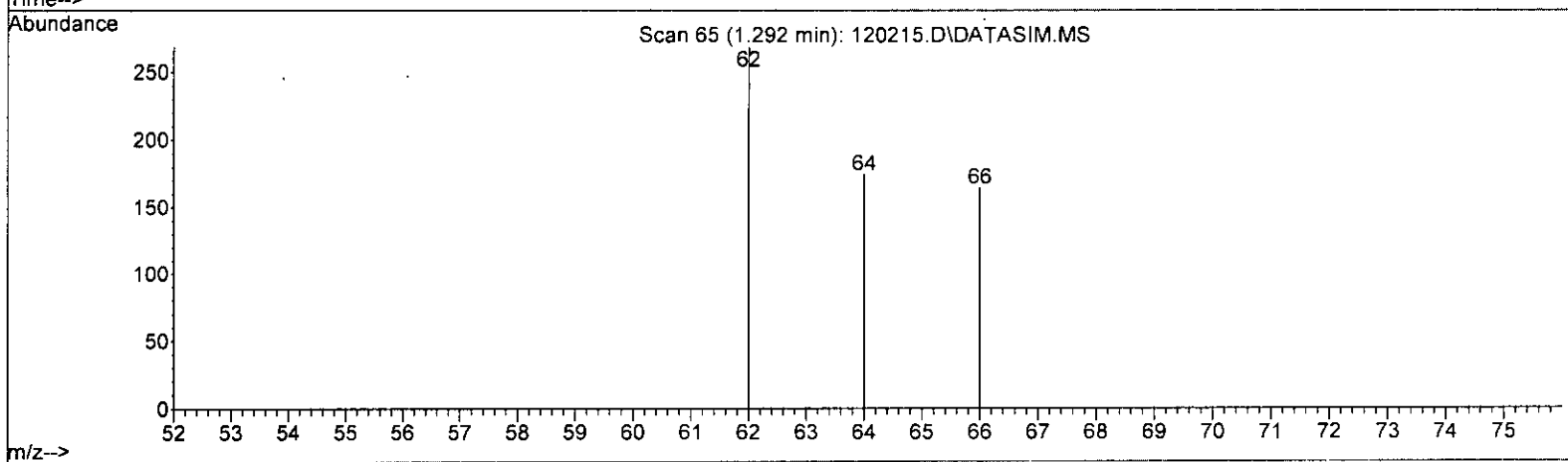
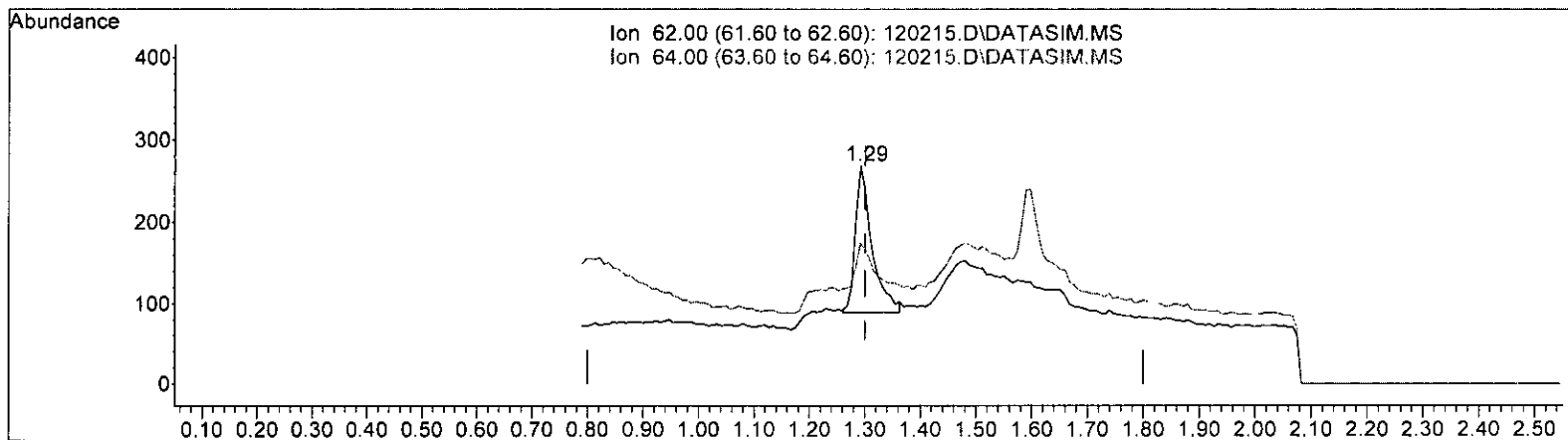
LM 12.5

(6) Vinyl chloride (TMP)			
1.292min (-0.008) 0.090 ppb			
response	404		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	34.30	31.64	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 120215.D\DATA.MS

(6) Vinyl chloride (TMP)

1.292min (-0.008) 0.082 ppb m

response 376

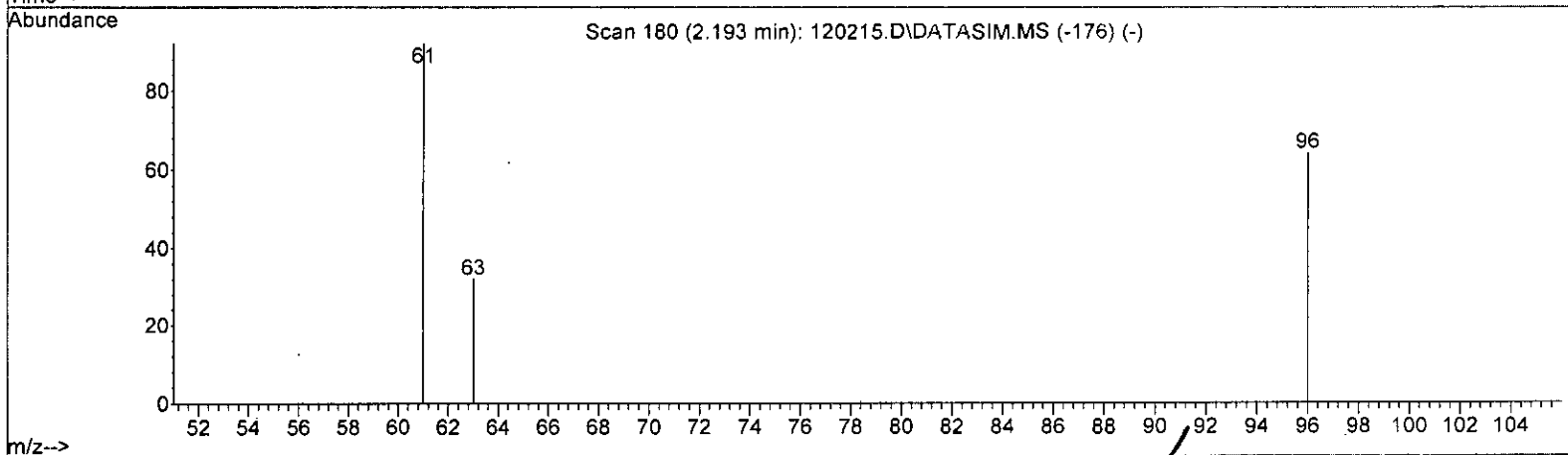
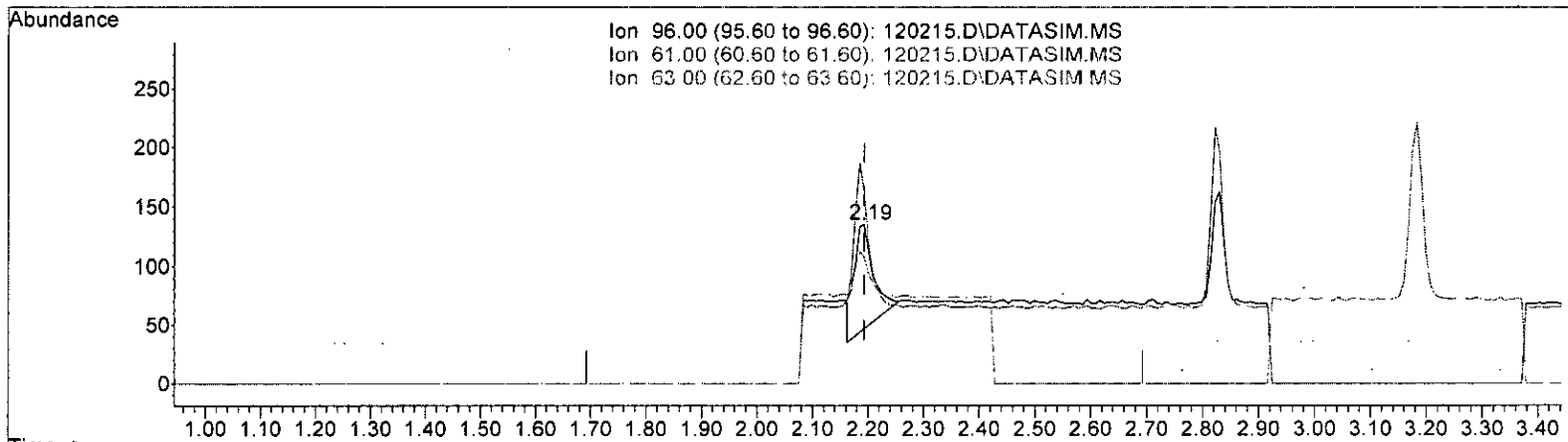
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	64.93#
0.00	0.00	0.00
0.00	0.00	0.00

M12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 0.178 ppb

response 220

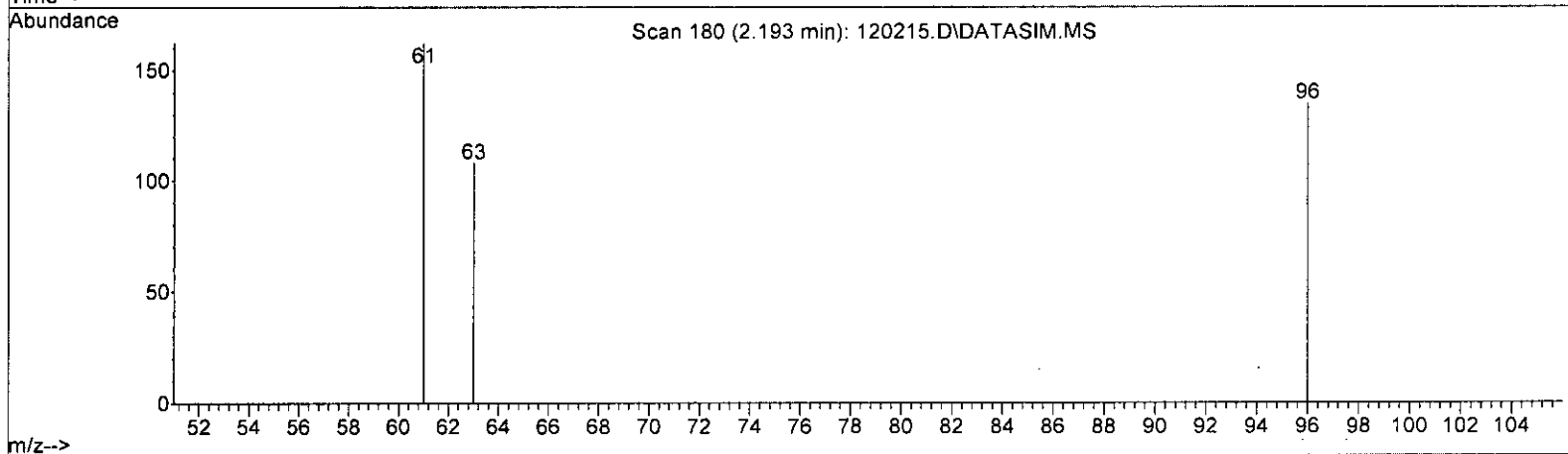
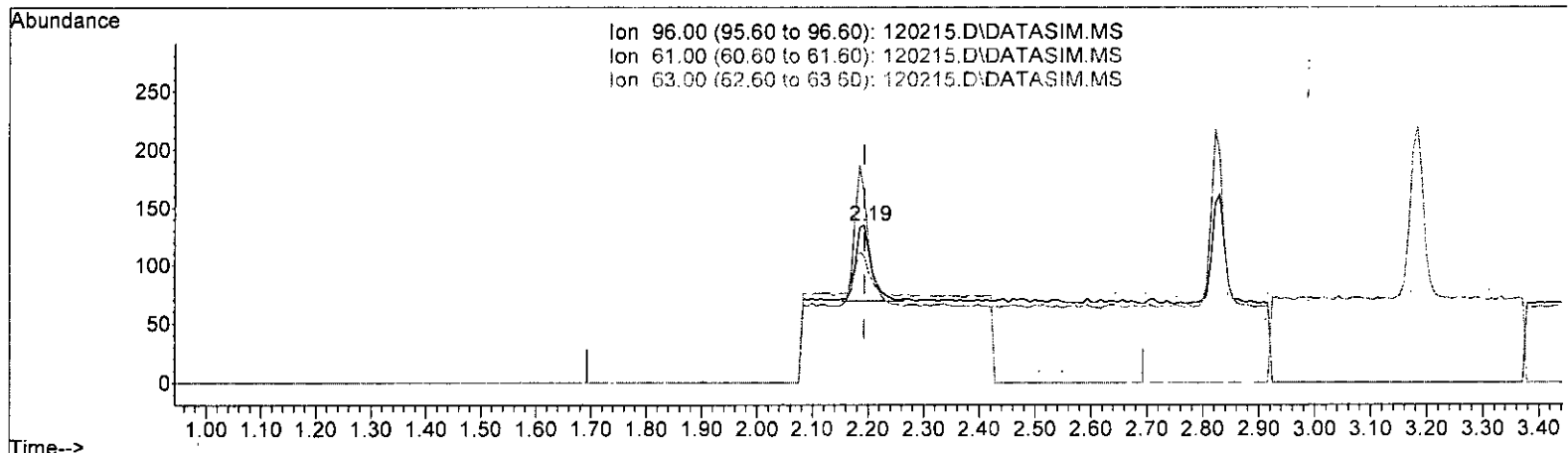
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	147.69
63.00	55.30	52.31
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(12) 1,1-Dichloroethene (TMP) *M 12.5*

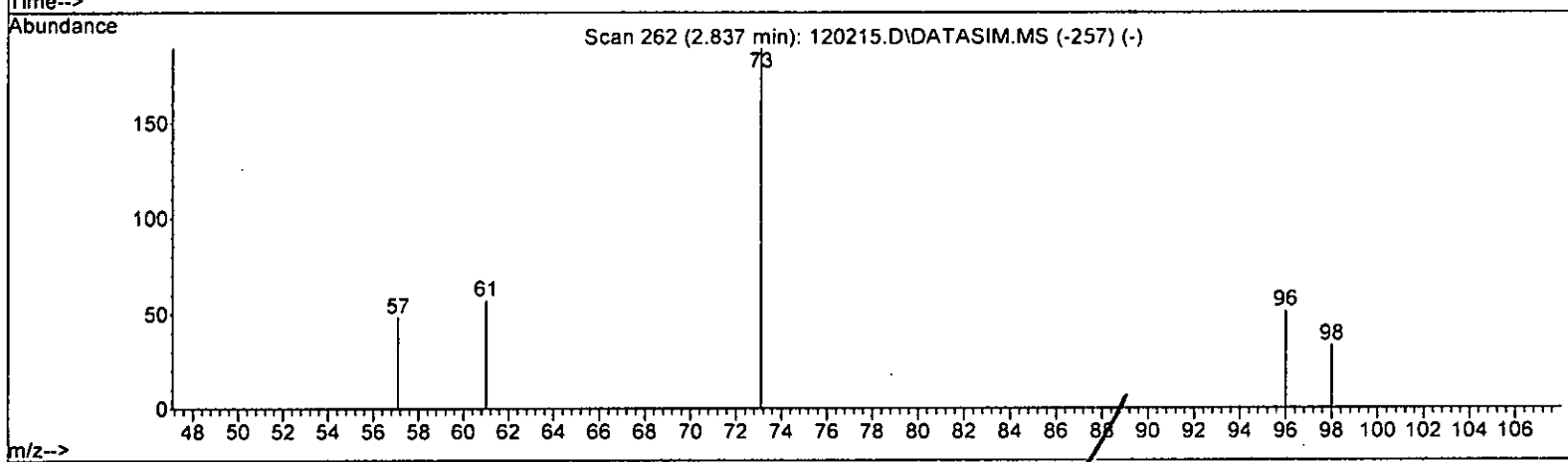
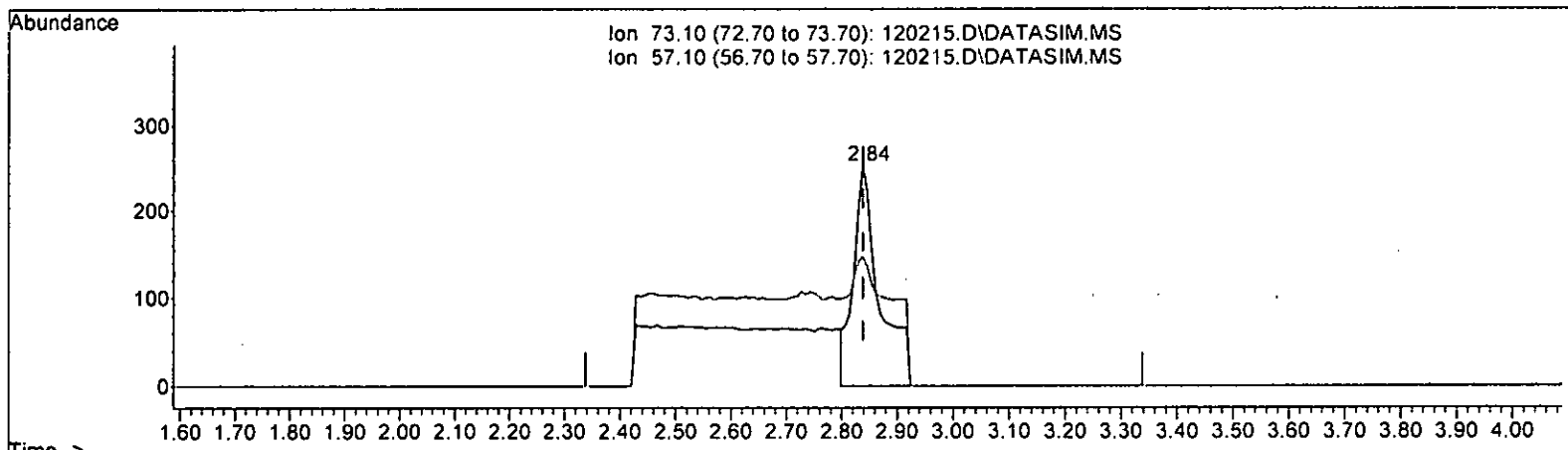
2.193min (-0.000) 0.097 ppb m

response	129	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	120.00
63.00	55.30	80.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP) m 12.5

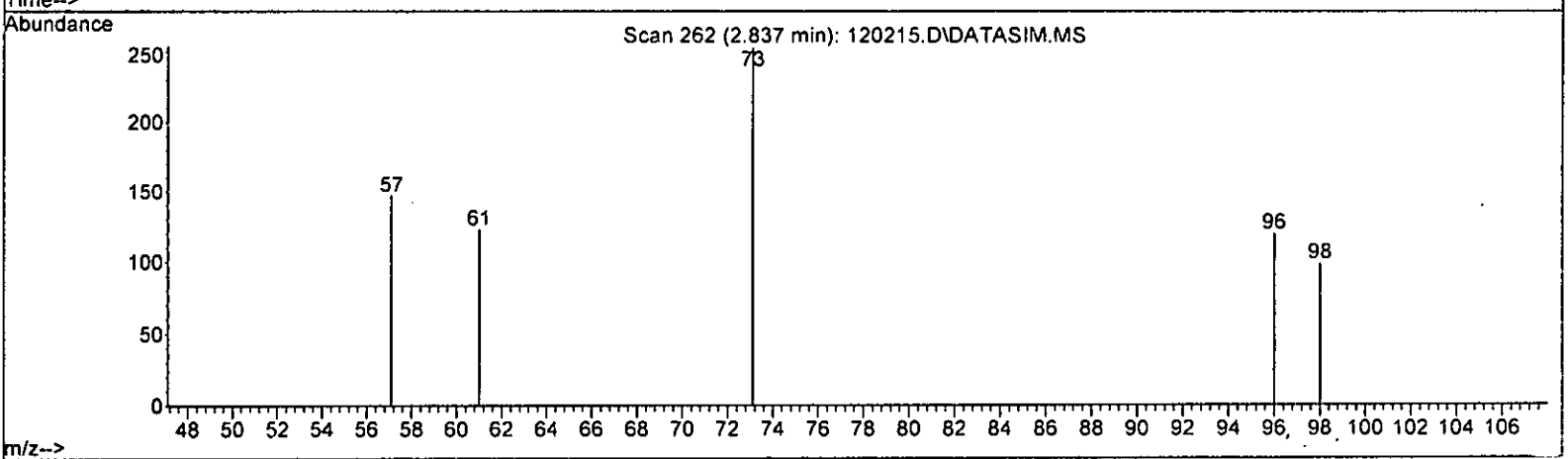
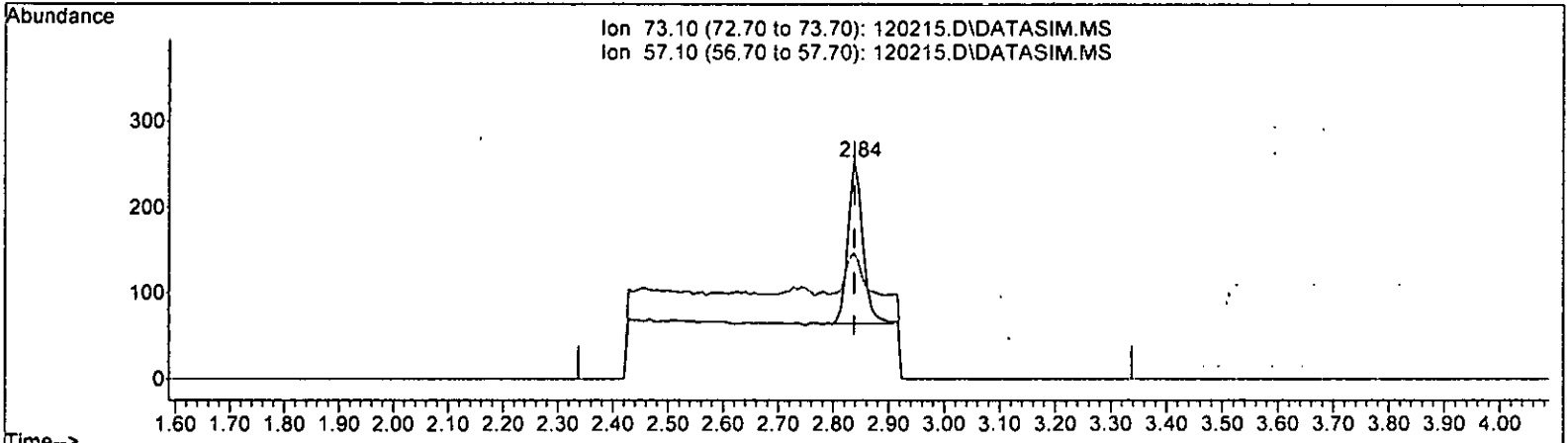
2.837min (-0.001) 0.222 ppb

response	806
Ion	Exp% Act%
73.10	100.00 100.00
57.10	26.70 58.10#
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

M 12.5

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 0.086 ppb m

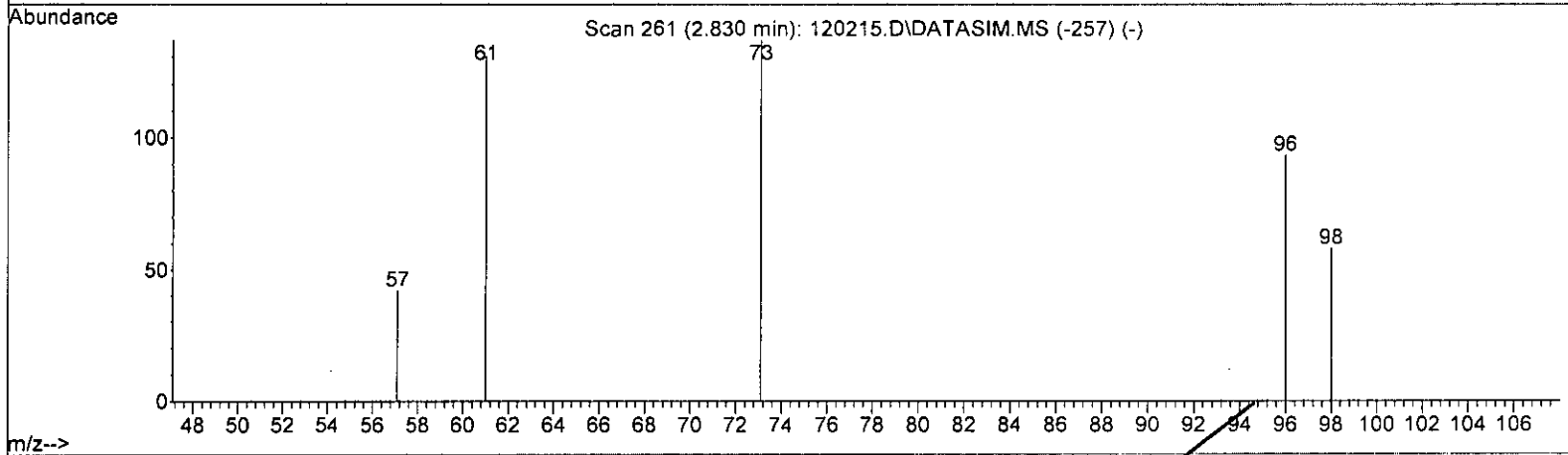
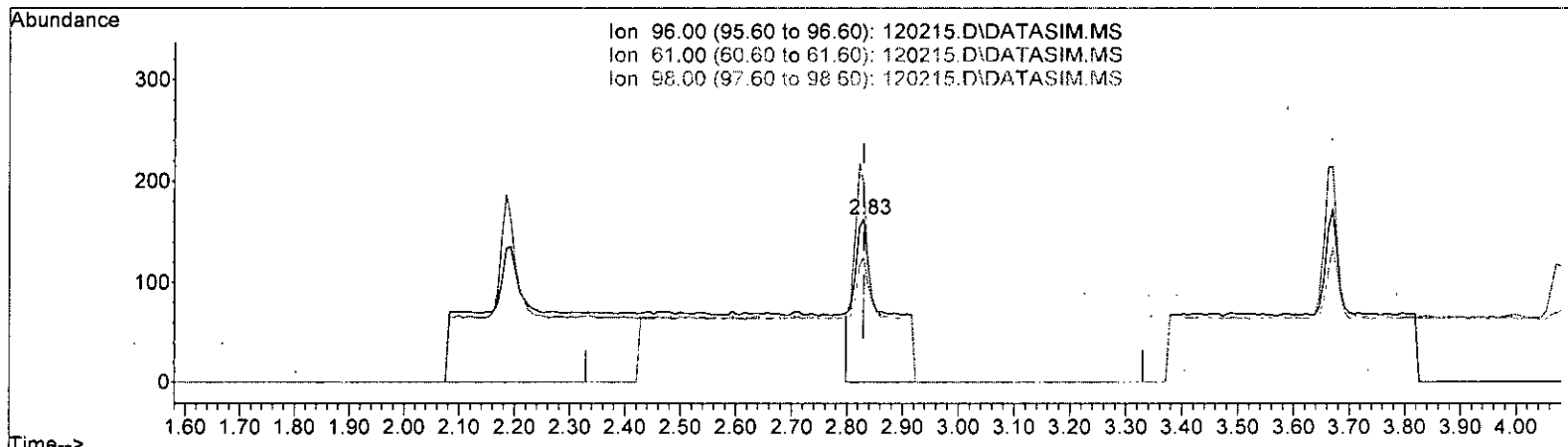
response 351

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	58.10#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 0.481 ppb

response 621

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	120.99
98.00	68.00	76.54
0.00	0.00	0.00

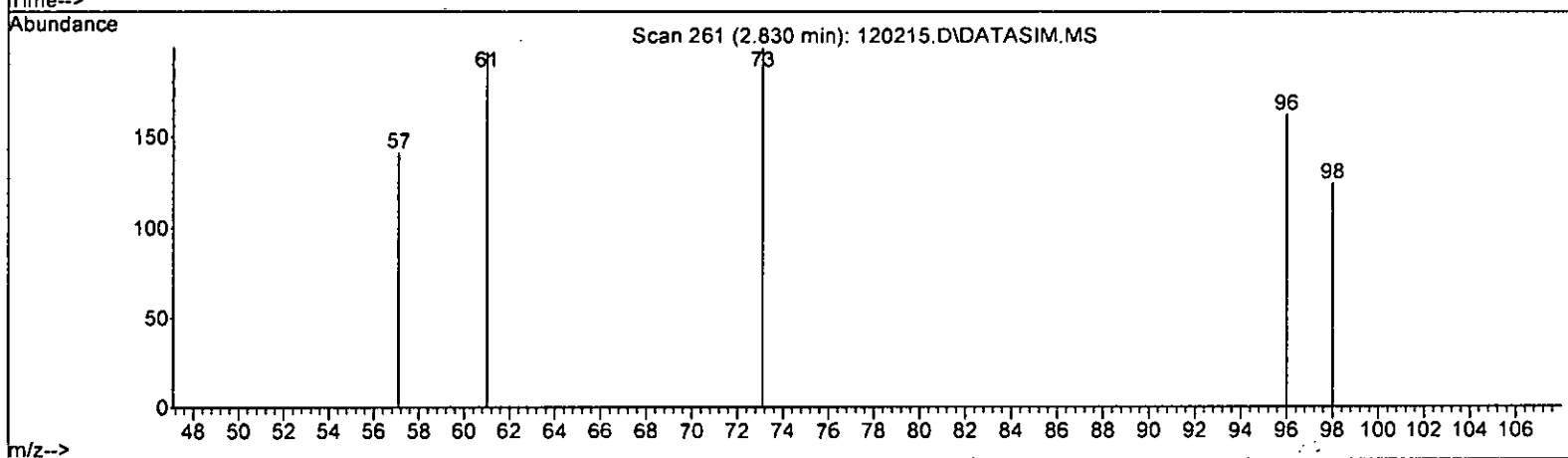
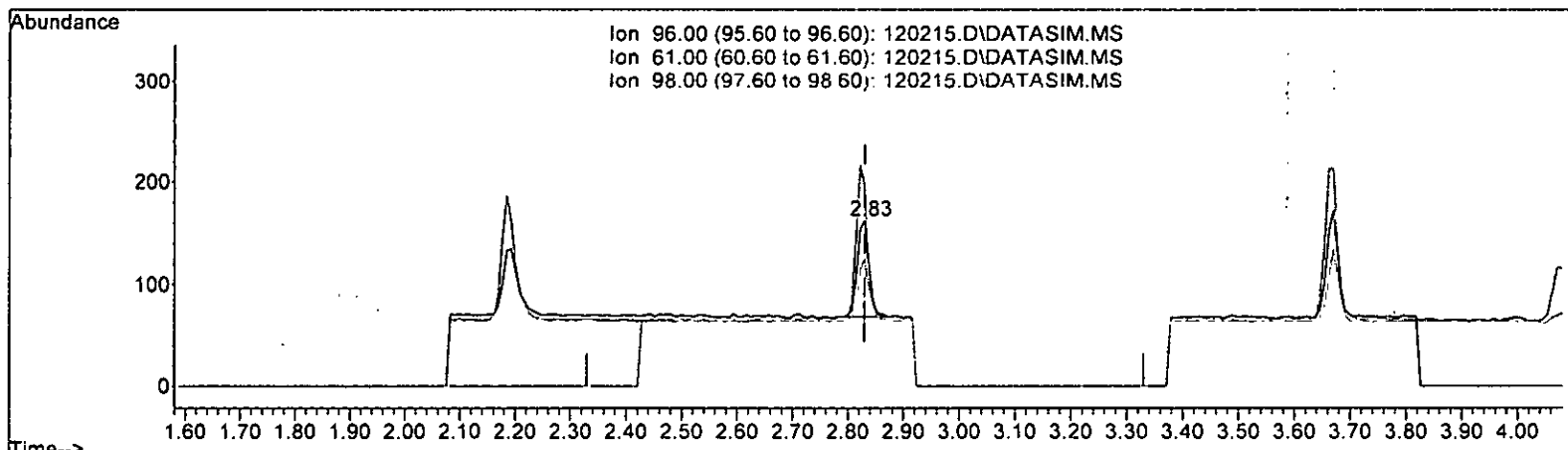
*m*  
12.9



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 0.083 ppb m

response 141

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	120.99
98.00	68.00	76.54
0.00	0.00	0.00

M  
128

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.217	-2.2	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.09#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.23#
6 TMP Vinyl chloride	0.100	0.082	18.0	101	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.54#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.61#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.77#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.40#
11 TMP Acetone	-1.000	0.000	0.0	0	-2.27#
12 TMP 1,1-Dichloroethene	0.100	0.097	3.0	97	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.06#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.100	0.086	14.0	98	0.00
17 TMP trans-1,2-Dichloroethene	0.100	0.083	17.0	87	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP 1,1-Dichloroethane	0.100	0.090	10.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.67#
22 TMP cis-1,2-Dichloroethene	0.100	0.093	7.0	100	0.00
23 TMP Chloroform	-1.000	0.000	0.0	0	-3.94#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.71#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.50#
26 TMP 1,2-Dichloroethane (EDC)	0.100	0.090	10.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.100	0.091	9.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.22#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S 1,2-Dichloroethane-d4	10.000	9.905	1.0	100	0.00
31 TMP Benzene	0.100	0.091	9.0	100	0.00
32 TMP Trichloroethene	0.100	0.092	8.0	100	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.13#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S Toluene-d8	10.000	9.912	0.9	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.23#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.100	0.095	5.0	100	0.00
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.25#
42 TMP 1,1,2-Trichloroethane	0.100	0.105	-5.0	100	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.100	0.093	7.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.100	0.093	7.0	100	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP Ethylbenzene	0.100	0.091	9.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.200	0.190	5.0	100	0.00
52 TMP o-Xylene	0.100	0.094	6.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-7.90#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.07#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	10.000	10.029	-0.3	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.62#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.51#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.57#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.70#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.81#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.10#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.31#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.42#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.50#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-9.87#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.64#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.44#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.61#
75 TMP Naphthalene	0.100	0.138	-38.0#	100	0.00
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.92#

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.269	-1.9	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.000#	100.0#	0#	-1.09#
5 TMP Chloromethane	0.951	0.000#	100.0#	0#	-1.23#
6 TMP Vinyl chloride	0.862	0.831	3.6	101	0.00
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	-1.54#
8 TMP Chloroethane	0.369	0.000#	100.0#	0#	-1.61#
9 TMP Trichlorofluoromethane	0.899	0.000#	100.0#	0#	-1.77#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.40#
11 TMP Acetone	0.031	0.000#	100.0#	0#	-2.27#
12 TMP 1,1-Dichloroethene	0.271	0.285	-5.2	97	0.00
13 TMP Hexane	0.469	0.000#	100.0#	0#	-3.06#
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.776	4.4	98	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.312	0.6	87	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.000#	100.0#	0#	-3.24#
19 TMP 1,1-Dichloroethane	0.547	0.541	1.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.000#	100.0#	0#	-3.55#
21 TMP 2,2-Dichloropropane	0.347	0.000#	100.0#	0#	-3.67#
22 TMP cis-1,2-Dichloroethene	0.329	0.343	-4.3	100	0.00
23 TMP Chloroform	0.477	0.000#	100.0#	0#	-3.94#
24 TMP 2-Butanone (MEK)	0.184	0.000#	100.0#	0#	-3.71#
25 TMP t-Amyl methyl ether (TAME)	0.739	0.000#	100.0#	0#	-4.50#
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.515	-7.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.480	2.8	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.000#	100.0#	0#	-4.22#
29 TMP Carbon tetrachloride	0.396	0.000#	100.0#	0#	-4.21#
30 S 1,2-Dichloroethane-d4	0.060	0.059	1.7	100	0.00
31 TMP Benzene	1.103	1.100	0.3	100	0.00
32 TMP Trichloroethene	0.368	0.389	-5.7	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.000#	100.0#	0#	-5.13#
34 TMP Bromodichloromethane	0.375	0.000#	100.0#	0#	-5.37#
35 S Toluene-d8	0.975	0.967	0.8	100	0.00
36 TMP Dibromomethane	0.181	0.000#	100.0#	0#	-5.23#
37 TMP 4-Methyl-2-pentanone	0.054	0.000#	100.0#	0#	-5.91#
38 TMP cis-1,3-Dichloropropene	0.443	0.000#	100.0#	0#	-5.75#
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	1.057	-7.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.000#	100.0#	0#	-6.25#
42 TMP 1,1,2-Trichloroethane	0.285	0.352	-23.5#	100	0.00
43 TMP 2-Hexanone	0.312	0.000#	100.0#	0#	-6.64#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.420	0.481	-14.5	100	0.00
46 TMP Dibromochloromethane	0.366	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.407	-7.4	100	0.00
48 TMP Chlorobenzene	0.957	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.885	2.005	-6.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.705	0.757	-7.4	100	0.00
52 TMP o-Xylene	0.683	0.722	-5.7	100	0.00
53 TMP Styrene	1.004	0.000#	100.0#	0#	-7.90#
54 TMP Isopropylbenzene	1.606	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.269	0.000#	100.0#	0#	-8.07#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.867	-0.3	100	0.00
58 TMP n-Propylbenzene	3.386	0.000#	100.0#	0#	-8.62#
59 TMP Bromobenzene	0.790	0.000#	100.0#	0#	-8.51#
60 TMP 1,3,5-Trimethylbenzene	2.482	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.599	0.000#	100.0#	0#	-8.57#
63 TMP 2-Chlorotoluene	2.054	0.000#	100.0#	0#	-8.70#
64 TMP 4-Chlorotoluene	2.355	0.000#	100.0#	0#	-8.81#
65 TMP tert-Butylbenzene	2.194	0.000#	100.0#	0#	-9.10#
66 TMP 1,2,4-Trimethylbenzene	2.575	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	3.160	0.000#	100.0#	0#	-9.31#
68 TMP p-Isopropyltoluene	2.706	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.469	0.000#	100.0#	0#	-9.42#
70 TMP 1,4-Dichlorobenzene	1.498	0.000#	100.0#	0#	-9.50#
71 TMP 1,2-Dichlorobenzene	1.361	0.000#	100.0#	0#	-9.87#
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.000#	100.0#	0#	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.978	0.000#	100.0#	0#	-11.44#
74 TMP Hexachlorobutadiene	0.516	0.000#	100.0#	0#	-11.61#
75 TMP Naphthalene	2.401	3.313	-38.0#	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.000#	100.0#	0#	-11.92#

(#) = Out of Range

SPCC's out = 50 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	45253	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	34919	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19347	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12185	10.217	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.20%	
30) 1,2-Dichloroethane-d4	4.36	102	2672	9.905	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	99.00%	
35) Toluene-d8	5.98	98	43753	9.912	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	99.10%	
57) 4-Bromofluorobenzene	8.38	95	16765	10.029	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	100.30%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.29	62	376m	0.082	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	0.00		0	N.D.	d		
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.19	96	129m	0.097	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.84	73	351m	0.086	ppb		
17] trans-1,2-Dichloroethene	2.83	96	141m	0.083	ppb		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d		
19] 1,1-Dichloroethane	3.18	63	245	0.090	ppb		99
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d		
21) 2,2-Dichloropropane	0.00		0	N.D.	d		
22] cis-1,2-Dichloroethene	3.67	96	155	0.093	ppb		95
23) Chloroform	0.00		0	N.D.	d		
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d		
26] 1,2-Dichloroethane (EDC)	4.41	62	233	0.090	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	217	0.091	ppb		98
28) 1,1-Dichloropropene	0.00		0	N.D.	d		
29) Carbon tetrachloride	0.00		0	N.D.	d		
31] Benzene	4.39	78	498	0.091	ppb		97
32] Trichloroethene	4.93	95	176	0.092	ppb		99
33) 1,2-Dichloropropane	0.00		0	N.D.	d		
34) Bromodichloromethane	0.00		0	N.D.	d		
36) Dibromomethane	0.00		0	N.D.	d		

Data Path : Y:\Proc\_GCM511\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

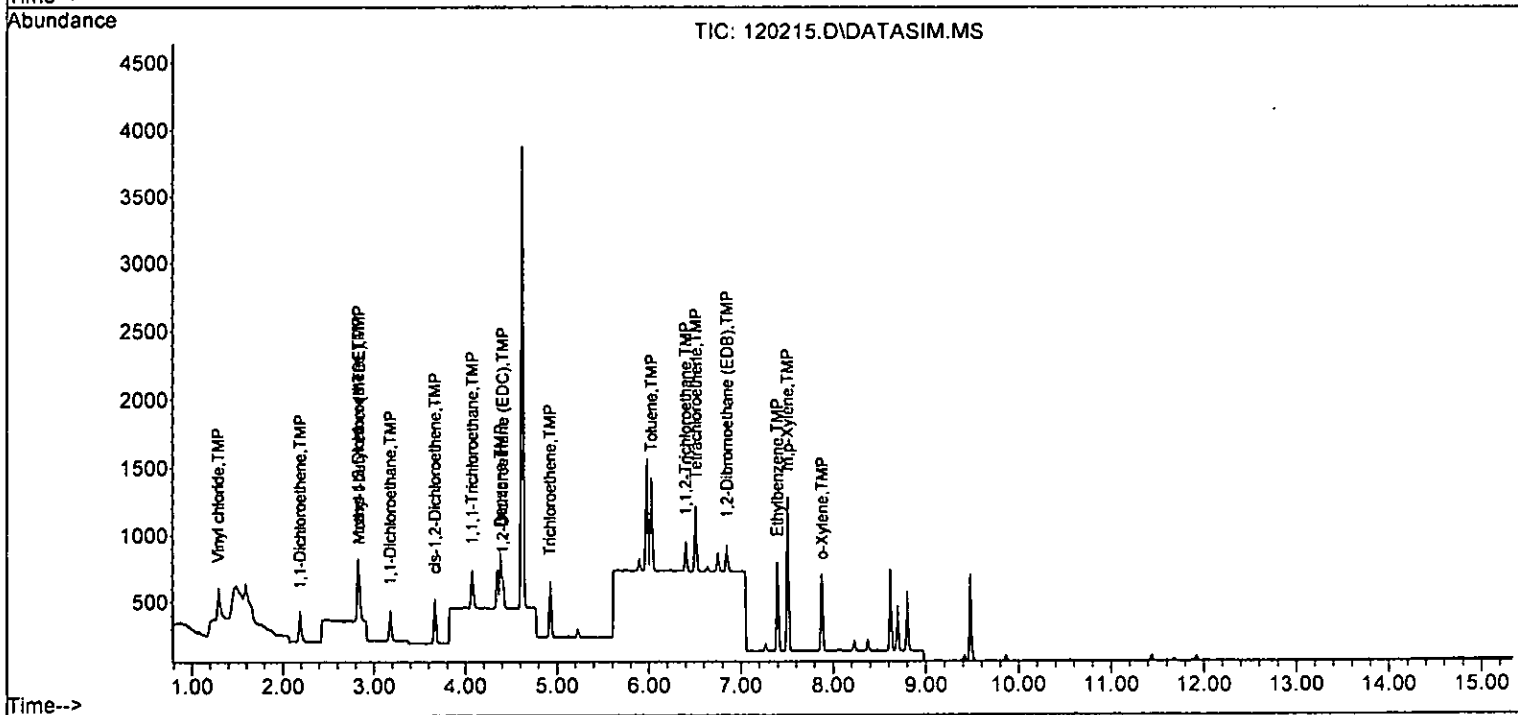
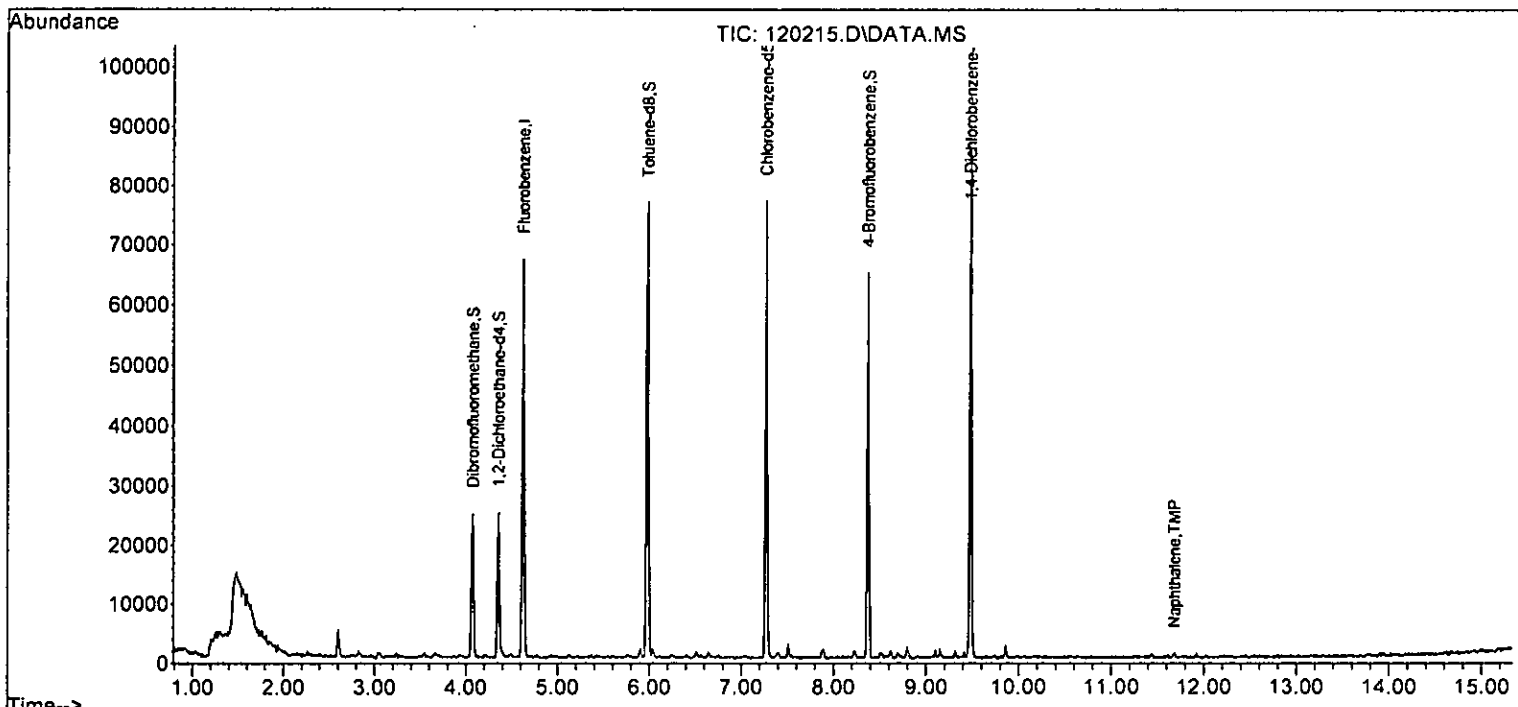
Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.03	92	369	0.095	ppb	99
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42] 1,1,2-Trichloroethane	6.40	83	123	0.105	ppb	100
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.51	164	168	0.093	ppb	98
46) Dibromochloromethane	0.00		0	N.D.	d	
47] 1,2-Dibromoethane (EDB)	6.85	107	142	0.093	ppb	99
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.40	91	700	0.091	ppb	100
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.51	106	529	0.190	ppb	99
52] o-Xylene	7.88	106	252	0.094	ppb	99
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	11.68	128	641	0.138	ppb	84
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

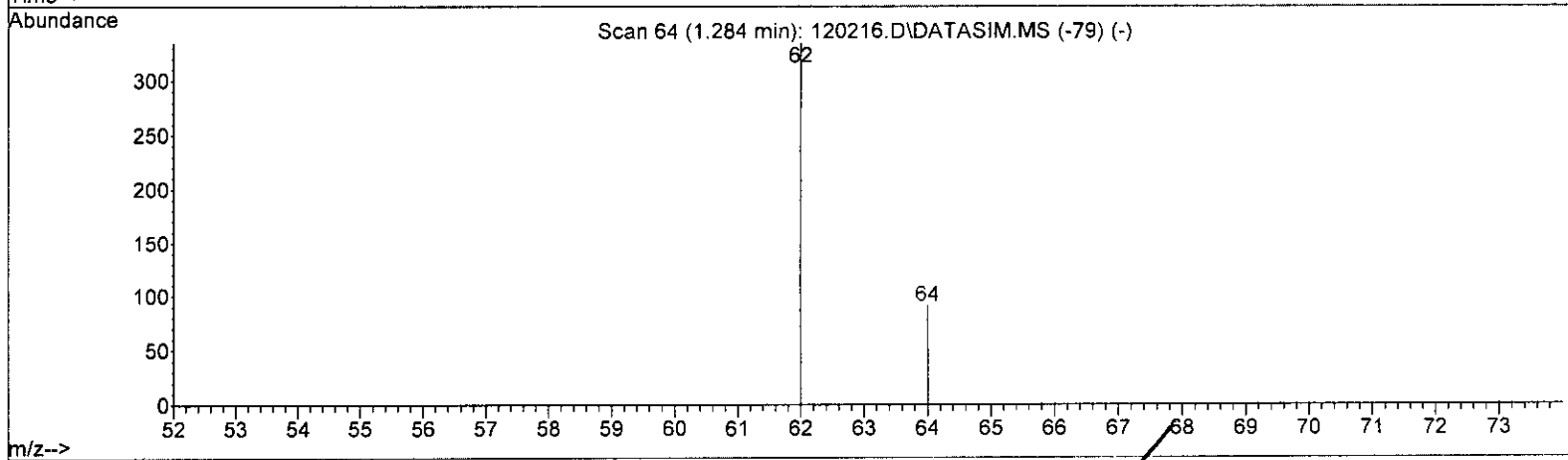
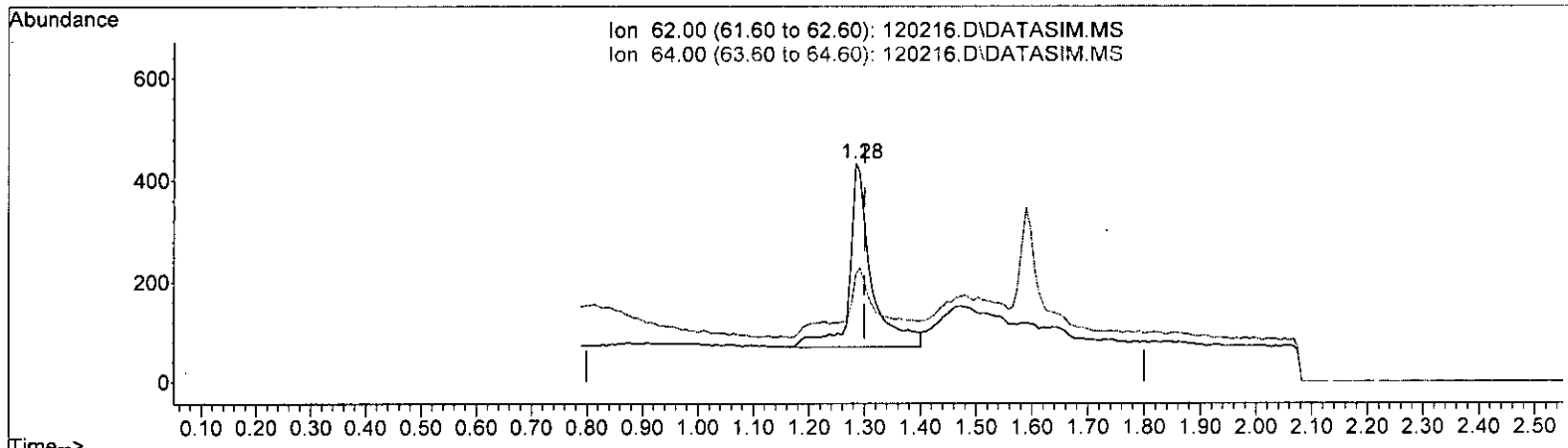




Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(6) Vinyl chloride (TMP)

1.284min (-0.016) 0.277 ppb

response 1013

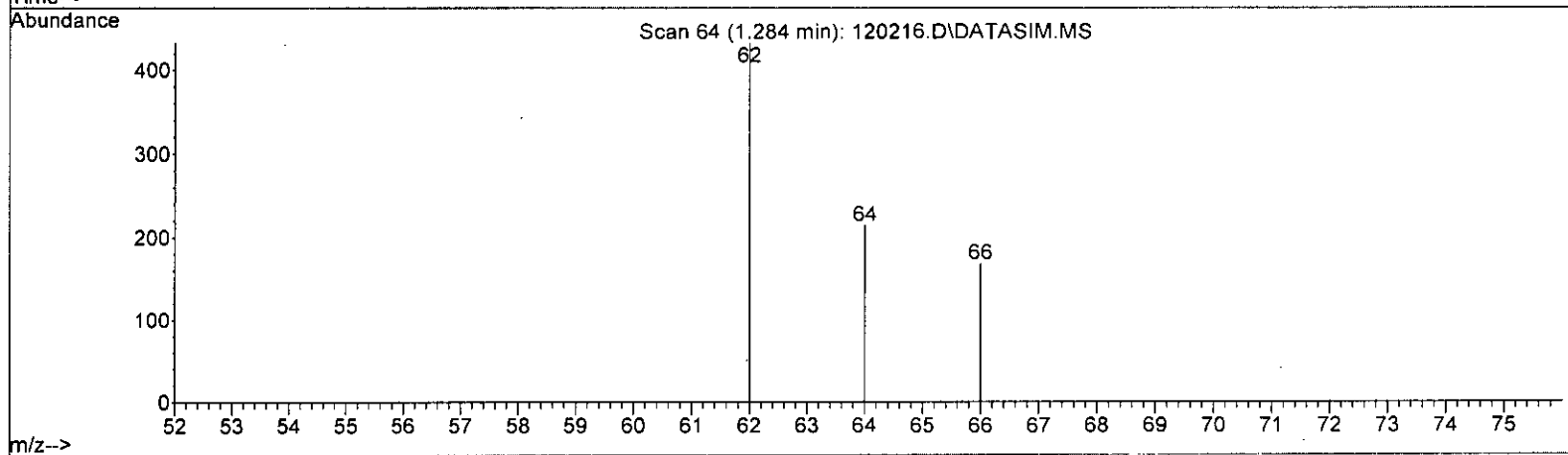
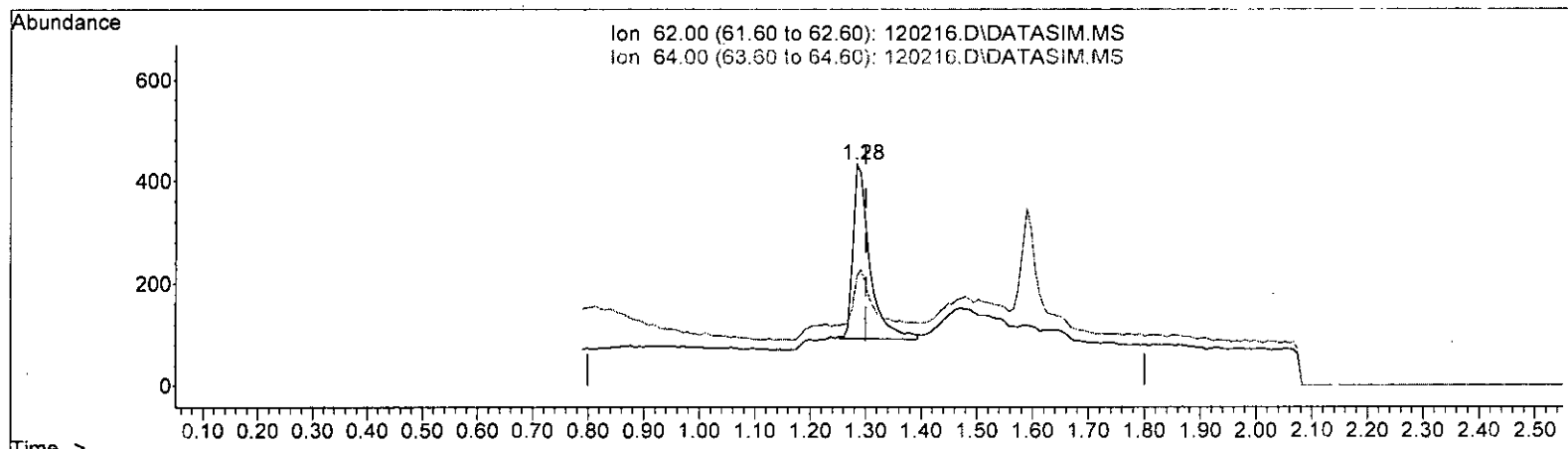
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	33.61
0.00	0.00	0.00
0.00	0.00	0.00

*M 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(6) Vinyl chloride (TMP)

1.284min (-0.016) 0.187 ppb m

response 714

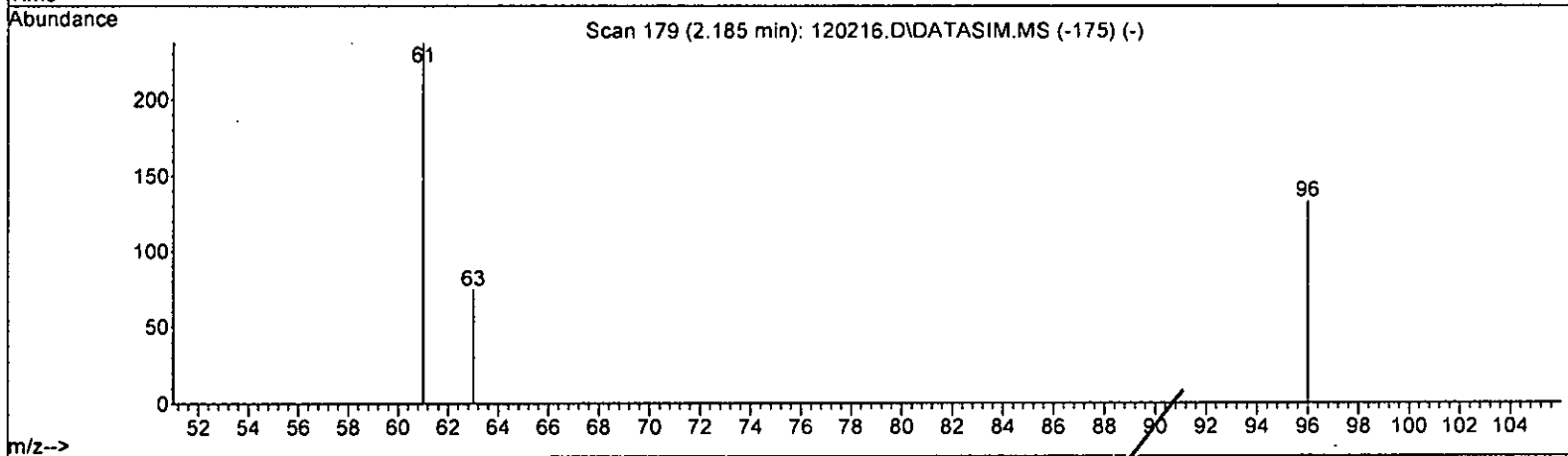
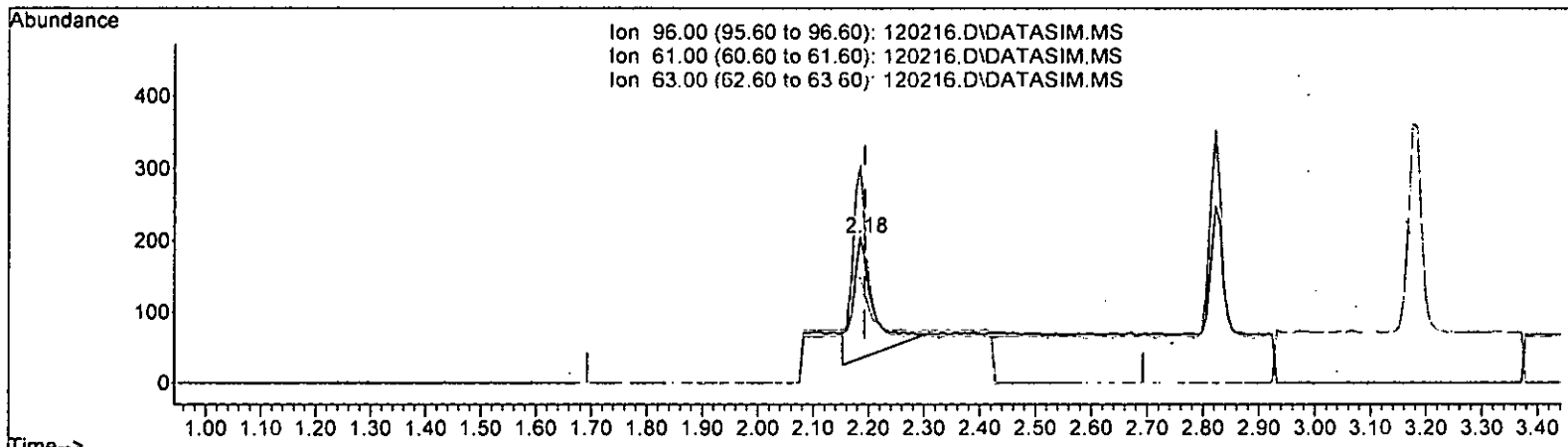
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	49.31
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)  
 2.185min (-0.008) 0.378 ppb  
 response 434

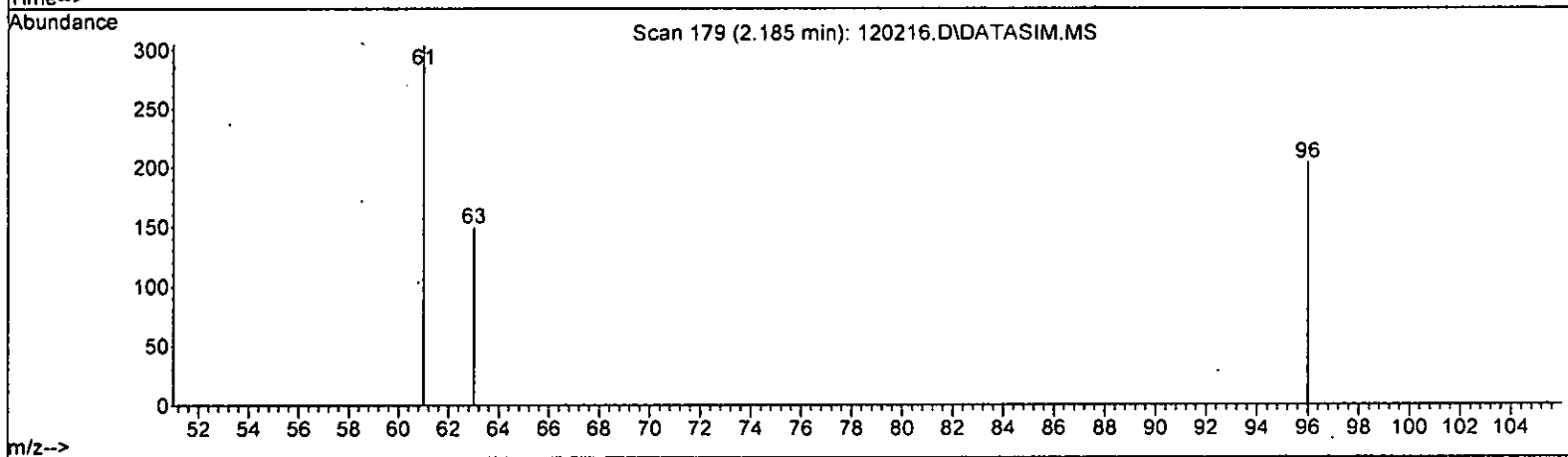
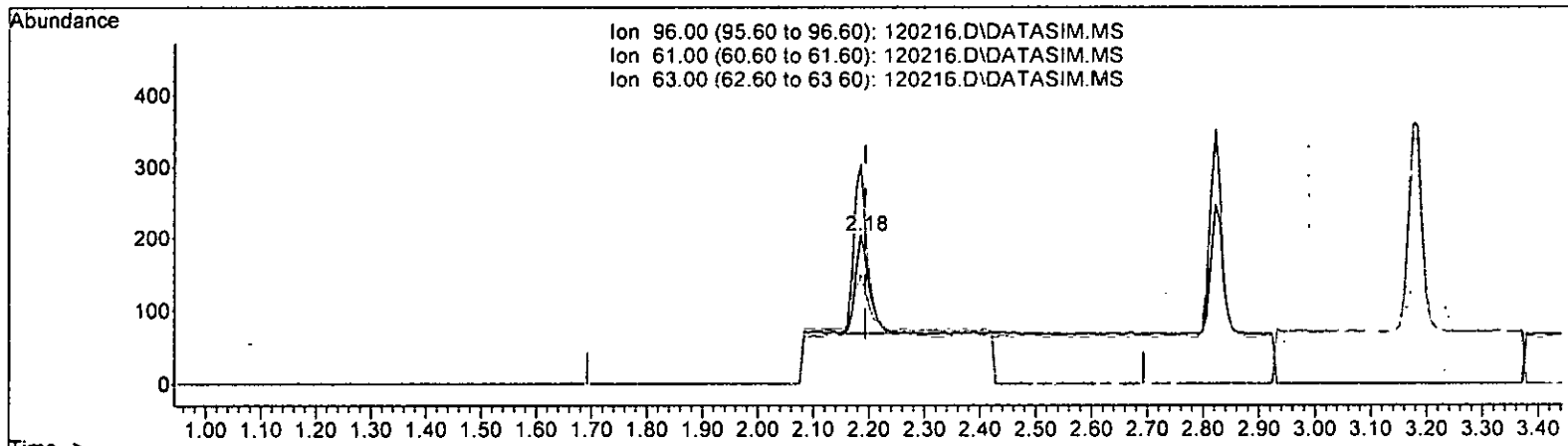
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	175.74
63.00	55.30	55.15
0.00	0.00	0.00

*Handwritten note: m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.185min (-0.008) 0.194 ppb m

response 233

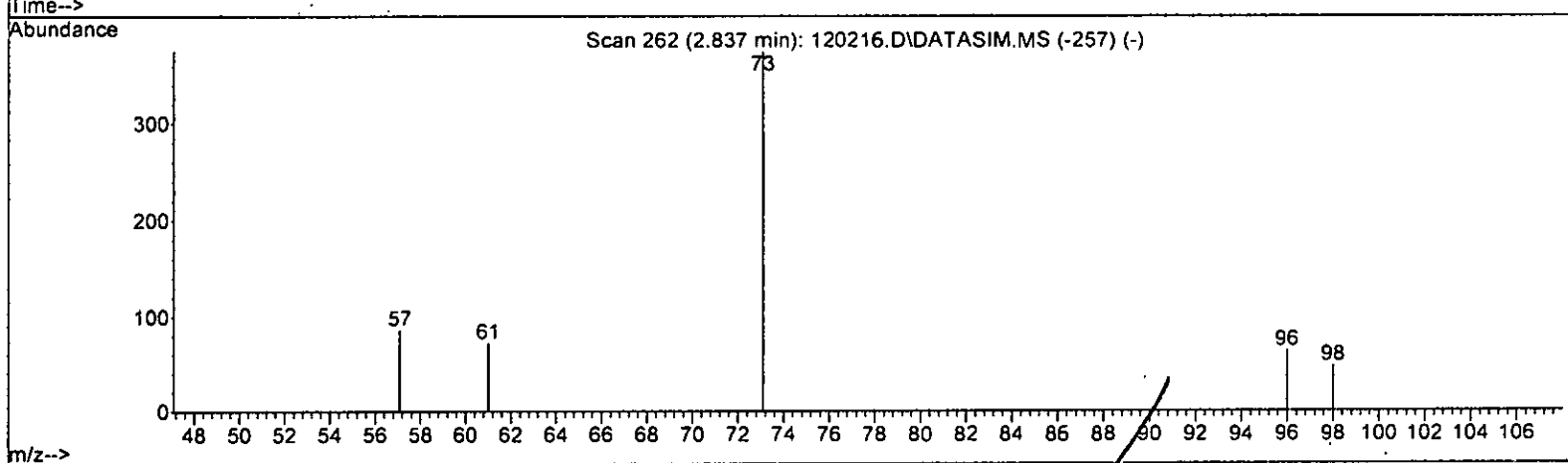
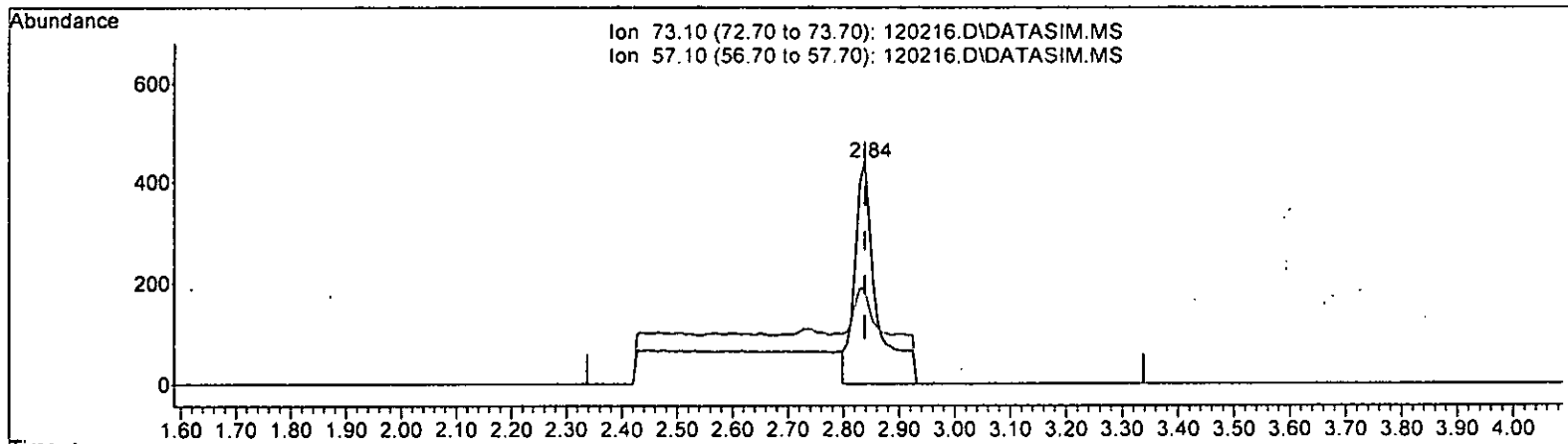
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	149.02
63.00	55.30	73.04
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 0.345 ppb

response 1190

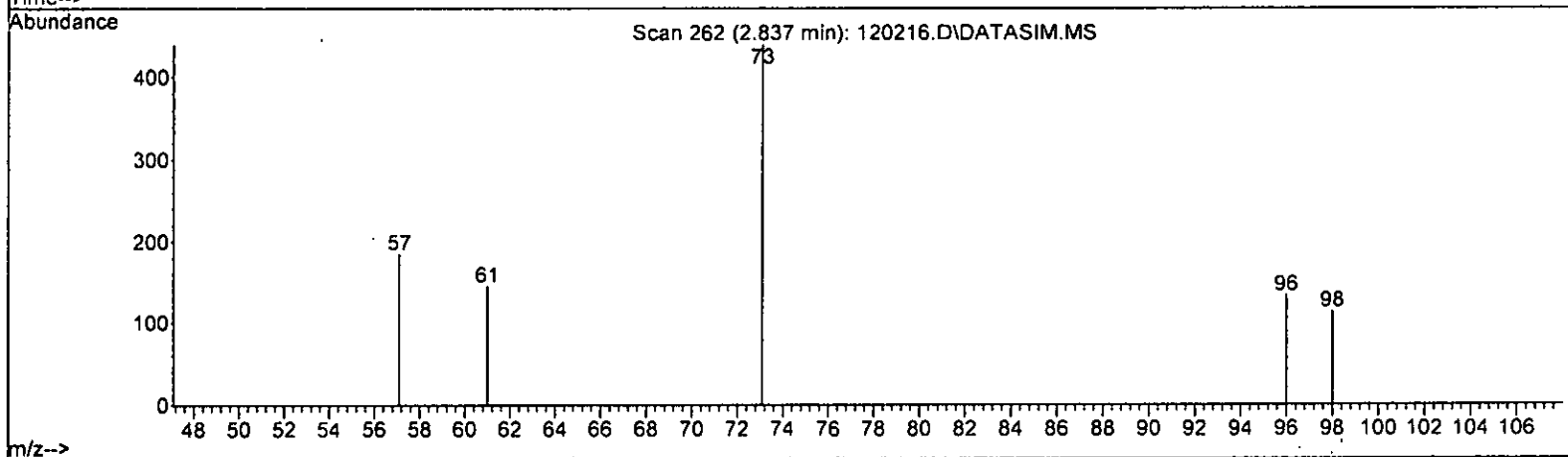
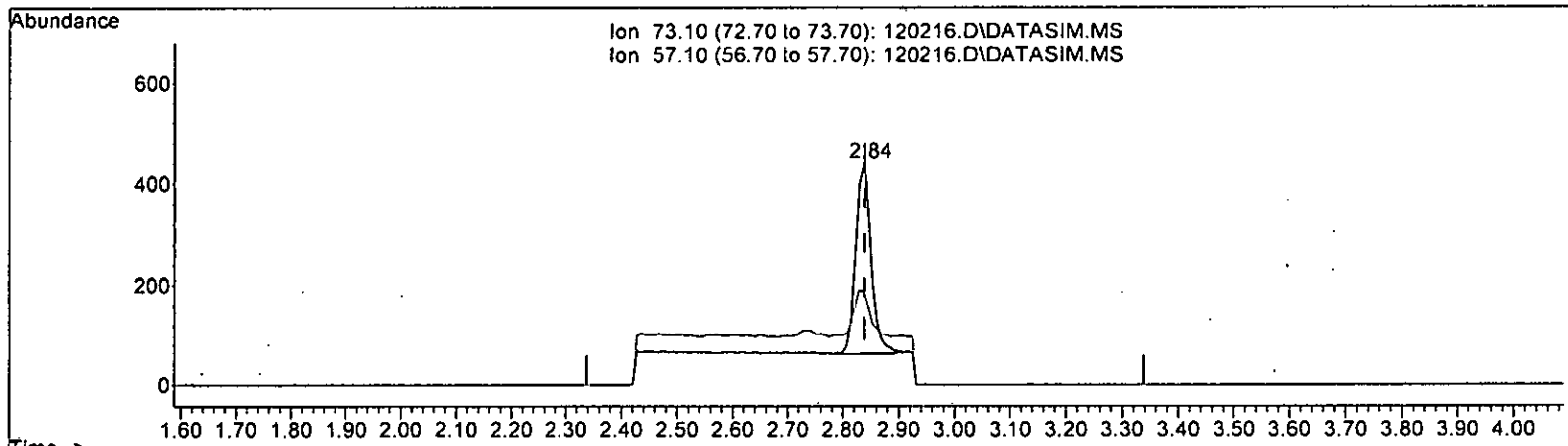
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	42.14
0.00	0.00	0.00
0.00	0.00	0.00

*M 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 0.202 ppb m

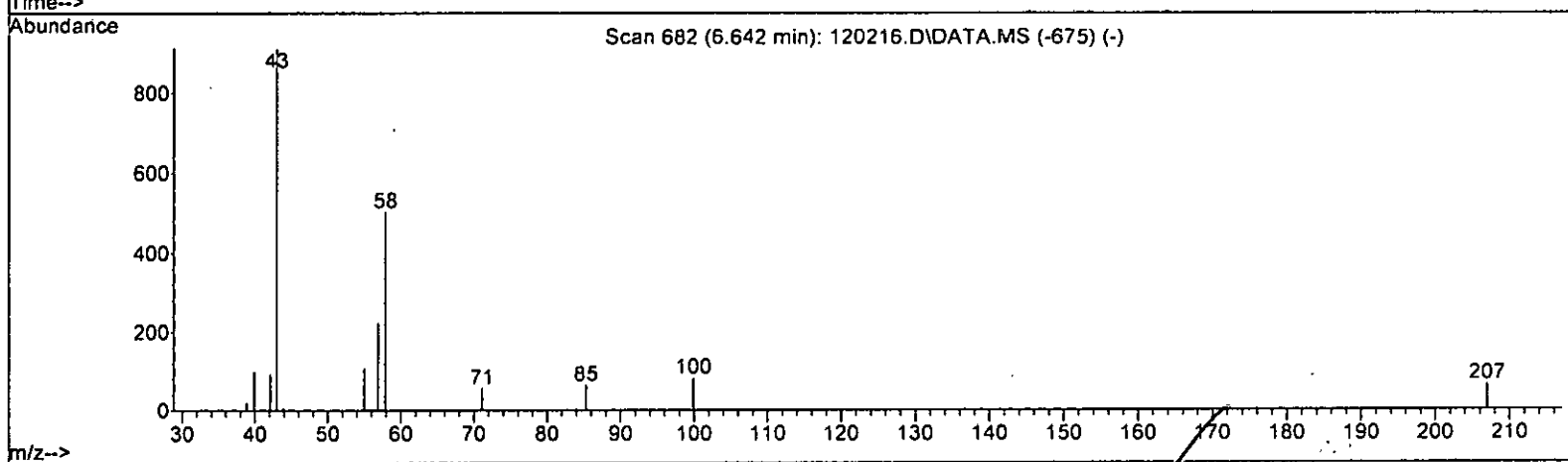
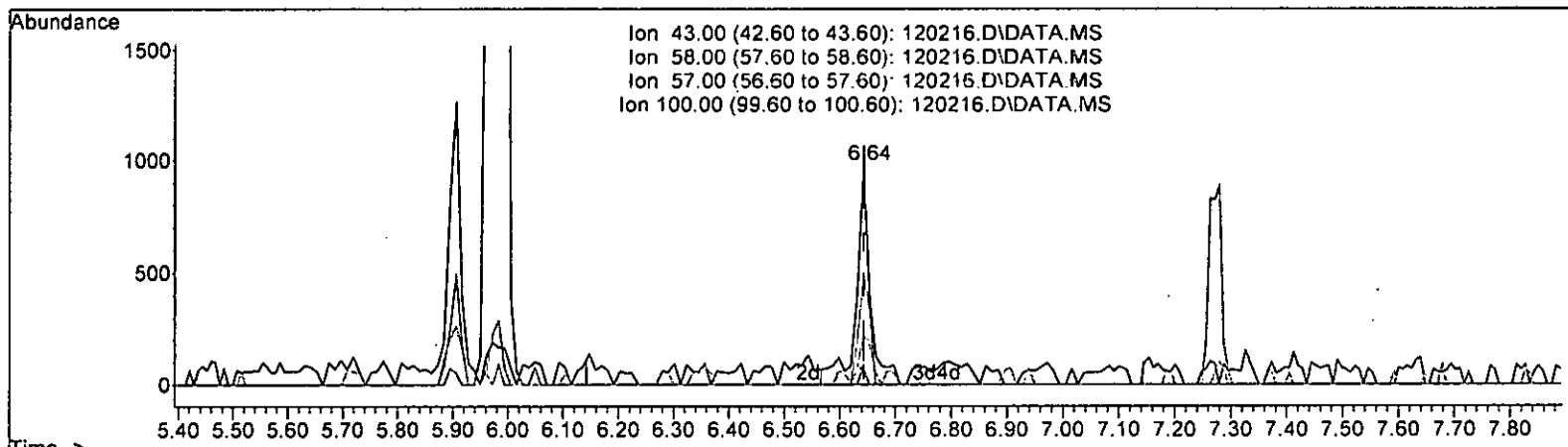
response	721
Ion	Exp% Act%
73.10	100.00 100.00
57.10	26.70 42.14
0.00	0.00 0.00
0.00	0.00 0.00

*M12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(43) 2-Hexanone (TMP)

6.642min (-0.001) 1.537 ppb

response 1677

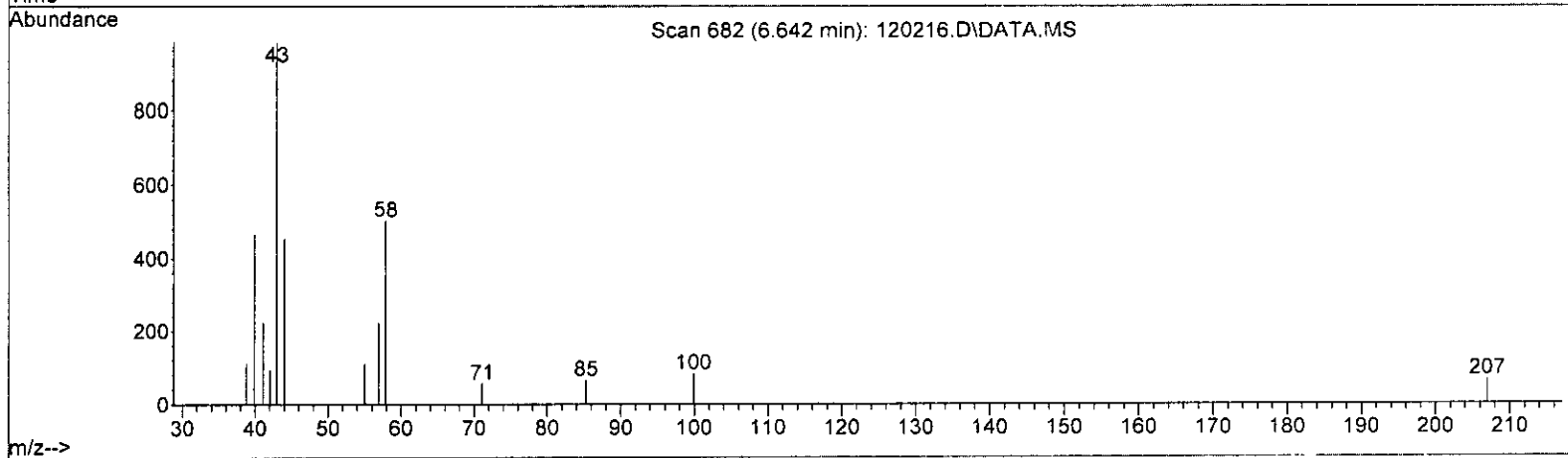
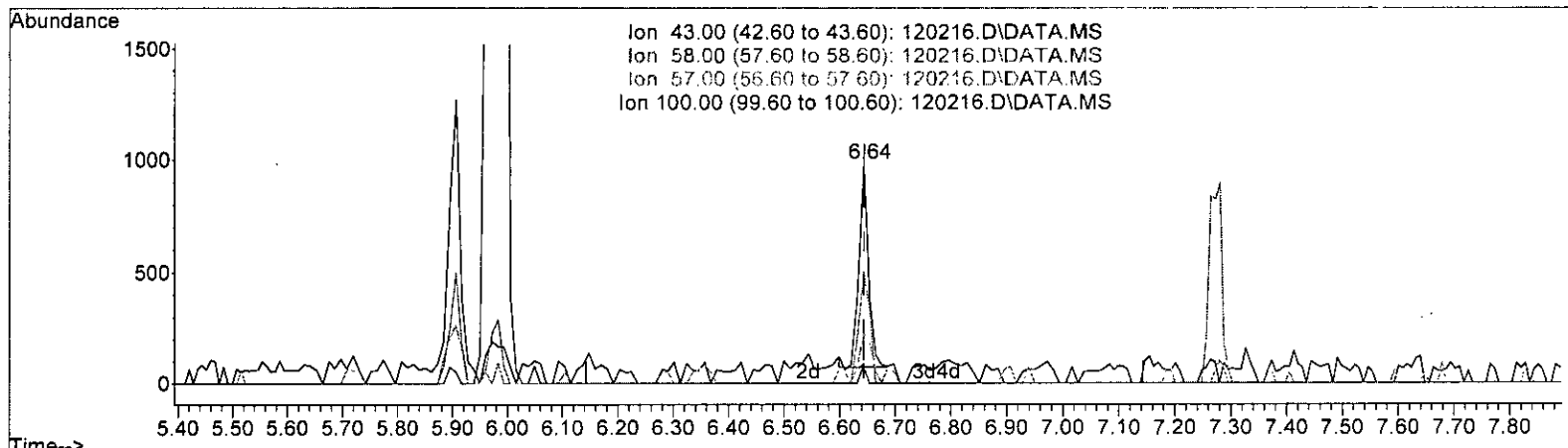
Ion	Exp%	Act%
43.00	100.00	100.00
58.00	56.00	51.07
57.00	21.00	22.53
100.00	10.90	8.26

*M 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(43) 2-Hexanone (TMP)

6.642min (-0.001) 0.970 ppb m

response 1058

Ion	Exp%	Act%
43.00	100.00	100.00
58.00	56.00	51.07
57.00	21.00	22.53
100.00	10.90	8.26

*125*



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-0.02
3 S Dibromofluoromethane	10.000	10.310	-3.1	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.09#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.23#
6 TMP Vinyl chloride	0.200	0.187	6.5	102	-0.02
7 TMP Bromomethane	-1.000	-2.264	0.0	0	0.00
8 TMP Chloroethane	0.200	0.000	100.0#	0	-1.61#
9 TMP Trichlorofluoromethane	0.200	0.212	-6.0	100	-0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-0.02
11 TMP Acetone	-1.000	0.000	0.0	0	-2.27#
12 TMP 1,1-Dichloroethene	0.200	0.194	3.0	97	0.00
13 TMP Hexane	-1.000	-0.006	0.0	0	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.200	0.202	-1.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.200	0.191	4.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.200	0.267	-33.5#	100	0.00
19 TMP 1,1-Dichloroethane	0.200	0.201	-0.5	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.200	0.221	-10.5	100	0.00
21 TMP 2,2-Dichloropropane	0.200	0.167	16.5	100	-0.02
22 TMP cis-1,2-Dichloroethene	0.200	0.200	0.0	100	0.00
23 TMP Chloroform	0.200	0.214	-7.0	100	0.00
24 TMP 2-Butanone (MEK)	1.000	0.000	100.0#	0	-3.71#
25 TMP t-Amyl methyl ether (TAME)	0.200	0.230	-15.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.200	0.197	1.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.200	0.193	3.5	100	0.00
28 TMP 1,1-Dichloropropene	0.200	0.213	-6.5	100	0.00
29 TMP Carbon tetrachloride	0.200	0.218	-9.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.416	-4.2	100	0.00
31 TMP Benzene	0.200	0.199	0.5	100	0.00
32 TMP Trichloroethene	0.200	0.194	3.0	100	0.00
33 TMP 1,2-Dichloropropane	0.200	0.256	-28.0#	100	0.00
34 TMP Bromodichloromethane	0.200	0.243	-21.5#	100	0.00
35 S Toluene-d8	10.000	10.170	-1.7	100	0.00
36 TMP Dibromomethane	0.200	0.218	-9.0	100	0.00
37 TMP 4-Methyl-2-pentanone	1.000	1.201	-20.1#	100	0.00
38 TMP cis-1,3-Dichloropropene	0.200	0.217	-8.5	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.200	0.200	0.0	100	0.00
41 TMP trans-1,3-Dichloropropene	0.200	0.210	-5.0	100	0.00
42 TMP 1,1,2-Trichloroethane	0.200	0.196	2.0	100	0.00
43 TMP 2-Hexanone	-1.000	0.970	0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.200	0.197	1.5	100	0.00
45 TMP Tetrachloroethene	0.200	0.200	0.0	100	0.00
46 TMP Dibromochloromethane	0.200	0.191	4.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.200	0.201	-0.5	100	0.00
48 TMP Chlorobenzene	0.200	0.237	-18.5	100	0.00
49 TMP Ethylbenzene	0.200	0.202	-1.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.200	0.230	-15.0	100	0.00
51 TMP m,p-Xylene	0.400	0.406	-1.5	100	0.00
52 TMP o-Xylene	0.200	0.201	-0.5	100	0.00
53 TMP Styrene	0.200	0.213	-6.5	100	0.00
54 TMP Isopropylbenzene	0.200	0.239	-19.5	100	0.00
55 TMP Bromoform	0.200	0.250	-25.0#	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.638	3.6	100	0.00
58 TMP n-Propylbenzene	0.200	0.220	-10.0	100	0.00
59 TMP Bromobenzene	0.200	0.197	1.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.200	0.246	-23.0#	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.200	0.158	21.0#	100	0.00
62 TMP 1,2,3-Trichloropropane	0.200	0.227	-13.5	100	0.00
63 TMP 2-Chlorotoluene	0.200	0.234	-17.0	100	0.00
64 TMP 4-Chlorotoluene	0.200	0.230	-15.0	100	0.00
65 TMP tert-Butylbenzene	0.200	0.219	-9.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.200	0.244	-22.0#	100	0.00
67 TMP sec-Butylbenzene	0.200	0.226	-13.0	100	0.00
68 TMP p-Isopropyltoluene	0.200	0.189	5.5	100	0.00
69 TMP 1,3-Dichlorobenzene	0.200	0.250	-25.0#	100	0.00
70 TMP 1,4-Dichlorobenzene	0.200	0.229	-14.5	100	0.00
71 TMP 1,2-Dichlorobenzene	0.200	0.173	13.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.200	0.197	1.5	100	0.00
74 TMP Hexachlorobutadiene	0.200	0.170	15.0	100	0.00
75 TMP Naphthalene	0.200	0.201	-0.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.200	0.225	-12.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-0.02
3 S Dibromofluoromethane	0.264	0.272	-3.0	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.000#	100.0#	0#	-1.09#
5 TMP Chloromethane	0.951	0.000#	100.0#	0#	-1.23#
6 TMP Vinyl chloride	0.862	0.806	6.5	102	-0.02
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	0.00
8 TMP Chloroethane	0.341	0.000#	100.0#	0#	-1.61#
9 TMP Trichlorofluoromethane	0.899	0.951	-5.8	100	-0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-0.02
11 TMP Acetone	0.031	0.000#	100.0#	0#	-2.27#
12 TMP 1,1-Dichloroethene	0.271	0.263	3.0	97	0.00
13 TMP Hexane	0.469	0.000#	100.0#	0#	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.814	-0.2	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.300	4.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	1.270	-33.3#	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.547	0.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.340	-10.7	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.527	-51.9#	100	-0.02
22 TMP cis-1,2-Dichloroethene	0.329	0.326	0.9	100	0.00
23 TMP Chloroform	0.477	0.509	-6.7	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.000#	100.0#	0#	-3.71#
25 TMP t-Amyl methyl ether (TAME)	0.739	0.848	-14.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.468	2.3	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.477	3.4	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.393	-6.8	100	0.00
29 TMP Carbon tetrachloride	0.396	0.431	-8.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	1.103	1.101	0.2	100	0.00
32 TMP Trichloroethene	0.368	0.356	3.3	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.403	-27.9#	100	0.00
34 TMP Bromodichloromethane	0.375	0.456	-21.6#	100	0.00
35 S Toluene-d8	0.975	0.992	-1.7	100	0.00
36 TMP Dibromomethane	0.181	0.198	-9.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.065	-20.4#	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.480	-8.4	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.979	0.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.533	-4.9	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.303	-6.3	100	0.00
43 TMP 2-Hexanone	0.312	0.000#	100.0#	0#	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.1Smin  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.477	1.4	100	0.00
45 TMP Tetrachloroethene	0.420	0.415	1.2	100	0.00
46 TMP Dibromochloromethane	0.366	0.350	4.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.378	0.3	100	0.00
48 TMP Chlorobenzene	0.957	1.136	-18.7	100	0.00
49 TMP Ethylbenzene	1.885	1.887	-0.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.411	-14.8	100	0.00
51 TMP m,p-Xylene	0.705	0.709	-0.6	100	0.00
52 TMP o-Xylene	0.683	0.681	0.3	100	0.00
53 TMP Styrene	1.004	1.071	-6.7	100	0.00
54 TMP Isopropylbenzene	1.606	1.922	-19.7	100	0.00
55 TMP Bromoform	0.269	0.337	-25.3#	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.833	3.6	100	0.00
58 TMP n-Propylbenzene	3.386	3.728	-10.1	100	0.00
59 TMP Bromobenzene	0.790	0.777	1.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	3.057	-23.2#	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.580	20.9#	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.678	-13.2	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.399	-16.8	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.713	-15.2	100	0.00
65 TMP tert-Butylbenzene	2.194	2.399	-9.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	3.146	-22.2#	100	0.00
67 TMP sec-Butylbenzene	3.160	3.571	-13.0	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.554	5.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.840	-25.3#	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.713	-14.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.177	13.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.000#	100.0#	0#	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.978	0.962	1.6	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.438	15.1	100	0.00
75 TMP Naphthalene	2.401	2.414	-0.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.997	-12.7	100	0.00

(#) = Out of Range

SPCC's out = 12 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	44274	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35020	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19757	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	12030	10.310	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.10%		
30) 1,2-Dichloroethane-d4	4.35	102	2749	10.416	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	104.20%		
35) Toluene-d8	5.98	98	43922	10.170	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	101.70%		
57) 4-Bromofluorobenzene	8.38	95	16453	9.638	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	96.40%		
Target Compounds							
2) Ethanol	1.85	45	86	No Calib			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D. d			
5) Chloromethane	0.00		0	N.D. d			
6] Vinyl chloride	1.28	62	714m	0.187	ppb		
7) Bromomethane	1.54	94	557	Below Cal	#	35	
8) Chloroethane	0.00		0	N.D. d			
9) Trichlorofluoromethane	1.76	101	842	0.212	ppb		88
10) 2-Propanol	2.39	45	352	No Calib			
11) Acetone	0.00		0	N.D. d			
12] 1,1-Dichloroethene	2.18	96	233m	0.194	ppb		
13) Hexane	3.05	57	587	Below Cal		76	
14) Methylene chloride	0.00		0	N.D. d			
15) t-Butyl alcohol (TBA)	0.00		0	N.D. d			
16] Methyl t-butyl ether (...)	2.84	73	721m	0.202	ppb		
17] trans-1,2-Dichloroethene	2.82	96	266	0.191	ppb		88
18) Diisopropyl ether (DIPE)	3.24	45	1125	0.267	ppb		85
19] 1,1-Dichloroethane	3.17	63	484	0.201	ppb		95
20) Ethyl t-butyl ether (E...)	3.55	87	301	0.221	ppb	#	82
21) 2,2-Dichloropropane	3.65	77	467	0.167	ppb		74
22] cis-1,2-Dichloroethene	3.67	96	289	0.200	ppb		93
23) Chloroform	3.94	83	451	0.214	ppb	#	59
24) 2-Butanone (MEK)	0.00		0	N.D. d			
25) t-Amyl methyl ether (T...)	4.49	73	751	0.230	ppb		88
26] 1,2-Dichloroethane (EDC)	4.41	62	414	0.197	ppb		97
27] 1,1,1-Trichloroethane	4.08	97	422	0.193	ppb		98
28) 1,1-Dichloropropene	4.22	75	348	0.213	ppb	#	45
29) Carbon tetrachloride	4.21	117	382	0.218	ppb	#	58
31] Benzene	4.38	78	975	0.199	ppb		99
32] Trichloroethene	4.93	95	315	0.194	ppb		97
33) 1,2-Dichloropropane	5.13	63	357	0.256	ppb	#	100
34) Bromodichloromethane	5.37	83	404	0.243	ppb		81
36) Dibromomethane	5.23	93	175	0.218	ppb		97

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

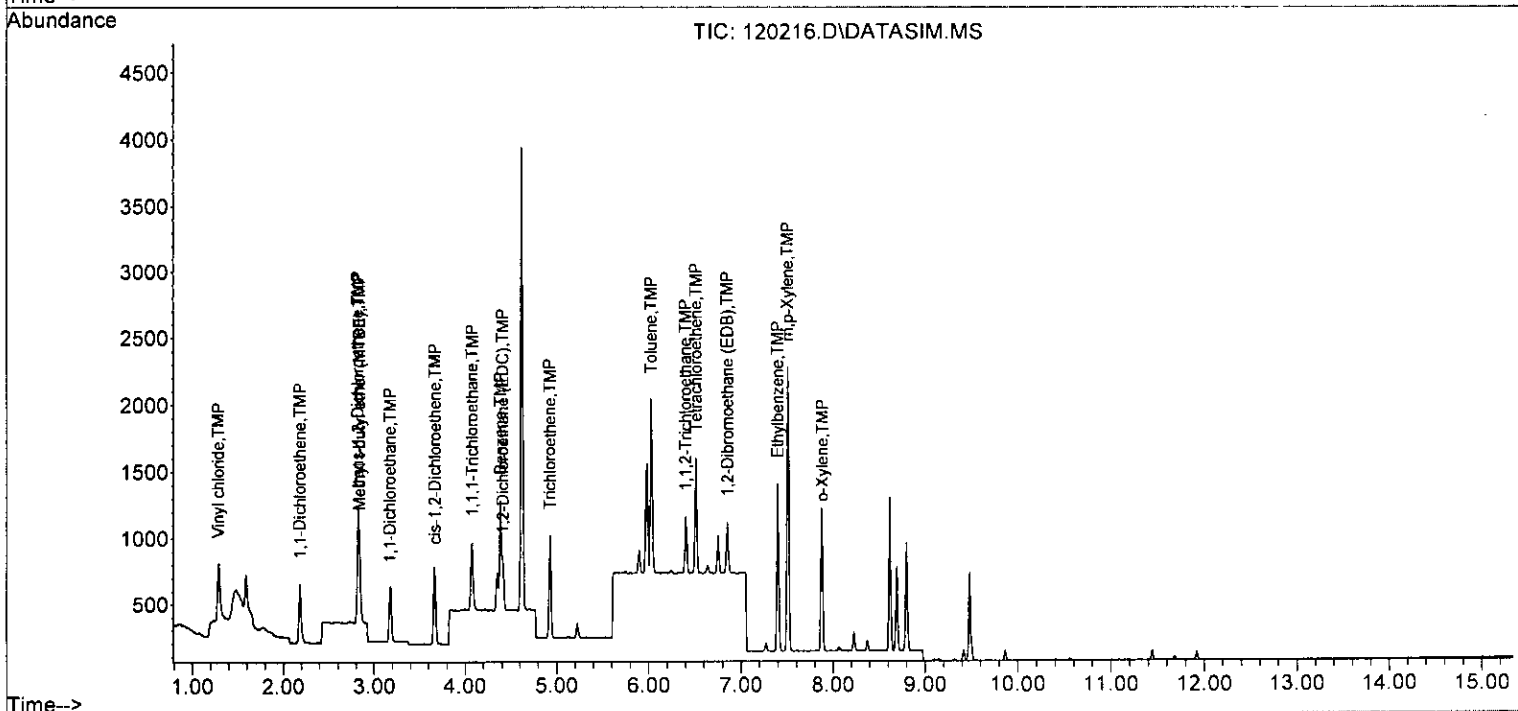
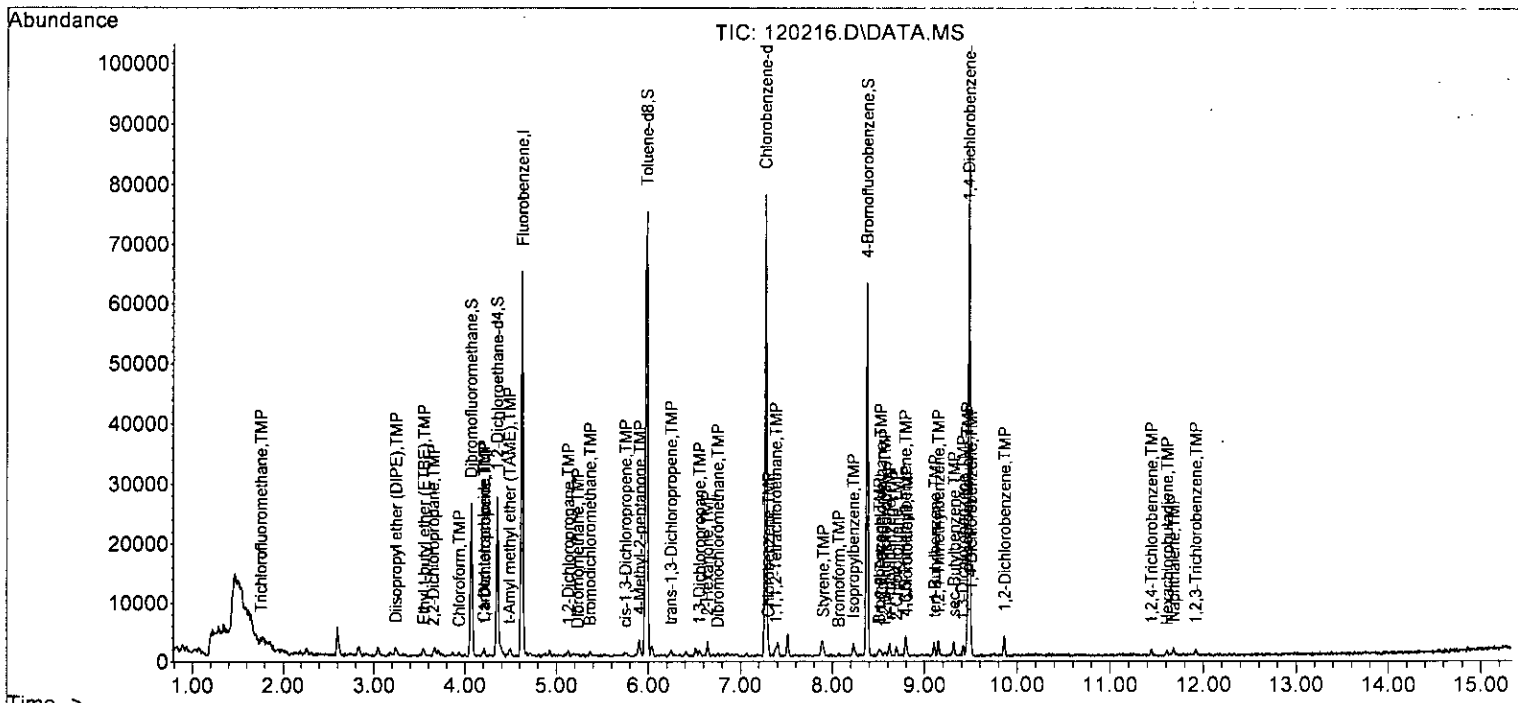
Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	288	1.201	ppb	# 62
38) cis-1,3-Dichloropropene	5.75	75	425	0.217	ppb	75
40] Toluene	6.03	92	686	0.200	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	373	0.210	ppb	# 59
42] 1,1,2-Trichloroethane	6.40	83	212	0.196	ppb	98
43) 2-Hexanone	6.64	43	1058m	0.970	ppb	
44) 1,3-Dichloropropane	6.55	76	334	0.197	ppb	79
45] Tetrachloroethene	6.51	164	291	0.200	ppb	98
46) Dibromochloromethane	6.75	129	245	0.191	ppb	82
47] 1,2-Dibromoethane (EDB)	6.85	107	265	0.201	ppb	95
48) Chlorobenzene	7.30	112	796	0.237	ppb	91
49] Ethylbenzene	7.40	91	1322	0.202	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	288	0.230	ppb	81
51] m,p-Xylene	7.51	106	993	0.406	ppb	100
52] o-Xylene	7.88	106	477	0.201	ppb	99
53) Styrene	7.90	104	750	0.213	ppb	79
54) Isopropylbenzene	8.23	105	1346	0.239	ppb	96
55) Bromoform	8.07	173	236	0.250	ppb	# 33
58) n-Propylbenzene	8.63	91	1473	0.220	ppb	92
59) Bromobenzene	8.51	156	307	0.197	ppb	81
60) 1,3,5-Trimethylbenzene	8.79	105	1208	0.246	ppb	77
61) 1,1,2,2-Tetrachloroethane	8.52	83	229	0.158	ppb	84
62) 1,2,3-Trichloropropane	8.57	75	268	0.227	ppb	68
63) 2-Chlorotoluene	8.70	91	948	0.234	ppb	76
64) 4-Chlorotoluene	8.81	91	1072	0.230	ppb	93
65) tert-Butylbenzene	9.11	119	948	0.219	ppb	74
66) 1,2,4-Trimethylbenzene	9.15	105	1243	0.244	ppb	84
67) sec-Butylbenzene	9.32	105	1411	0.226	ppb	91
68) p-Isopropyltoluene	9.46	119	1009	0.189	ppb	80
69) 1,3-Dichlorobenzene	9.41	146	727	0.250	ppb	94
70) 1,4-Dichlorobenzene	9.50	146	677	0.229	ppb	91
71) 1,2-Dichlorobenzene	9.86	146	465	0.173	ppb	89
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	11.44	180	380	0.197	ppb	# 59
74) Hexachlorobutadiene	11.61	225	173	0.170	ppb	94
75) Naphthalene	11.68	128	954	0.201	ppb	86
76) 1,2,3-Trichlorobenzene	11.92	180	394	0.225	ppb	# 73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

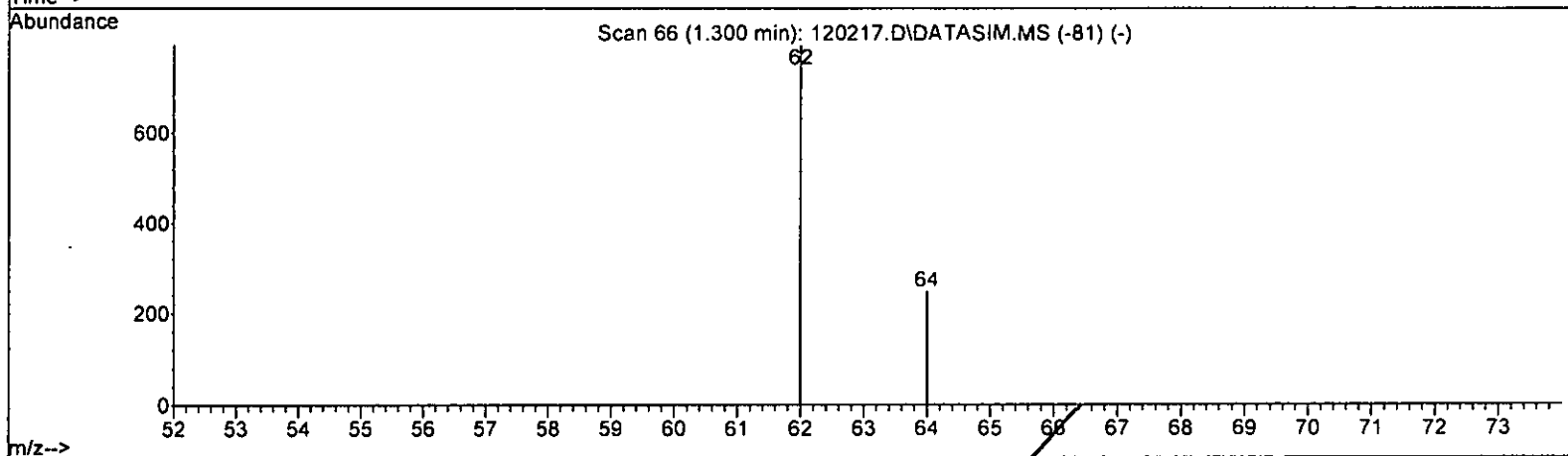
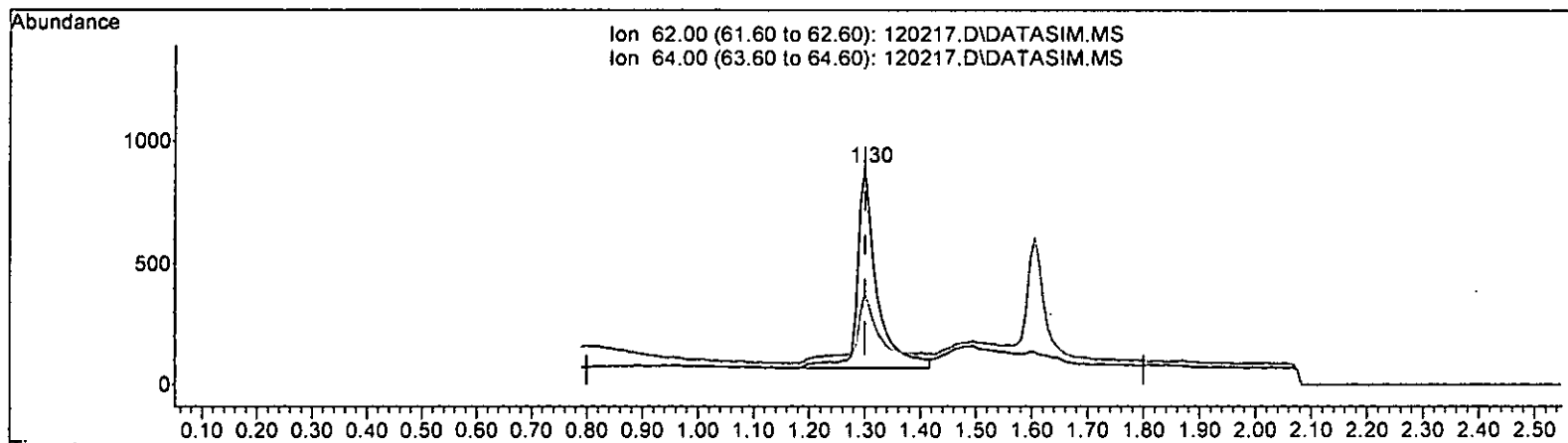
Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq Dn : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(6) Vinyl chloride (TMP)  
 1.300min (-0.000) 0.563 ppb

response	2014	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	34.79
0.00	0.00	0.00
0.00	0.00	0.00

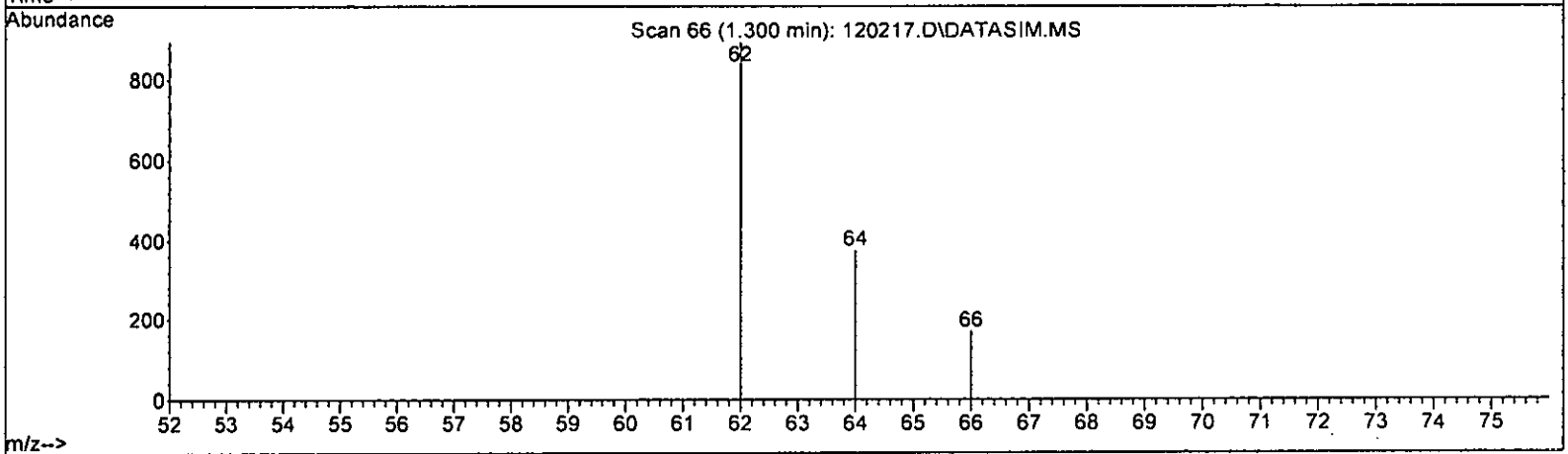
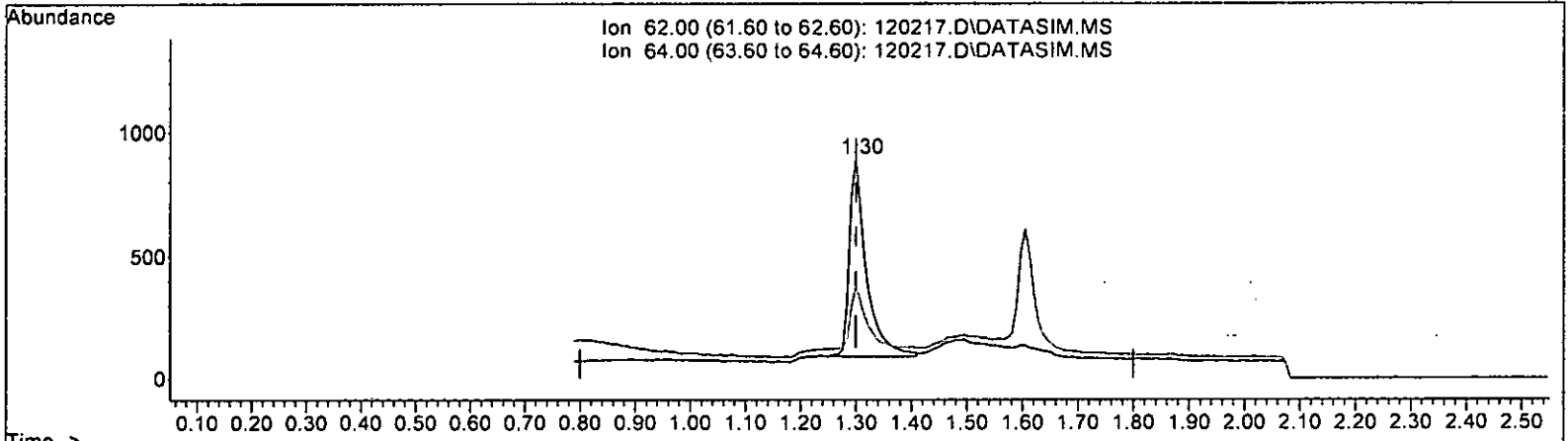
*M 12.9*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 0.468 ppb m

response 1692

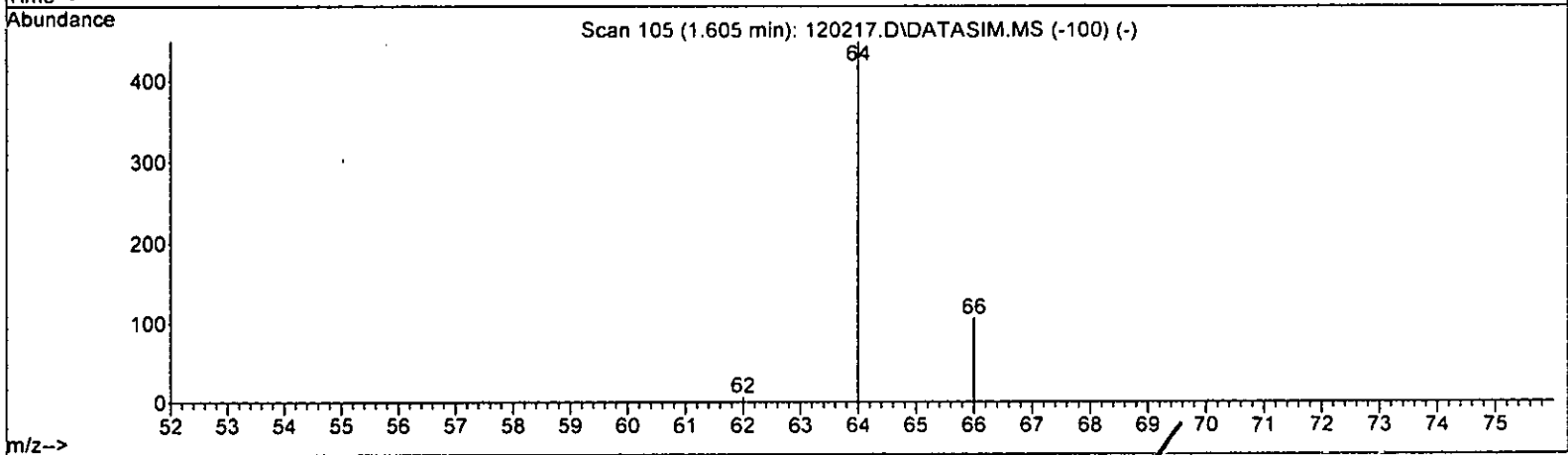
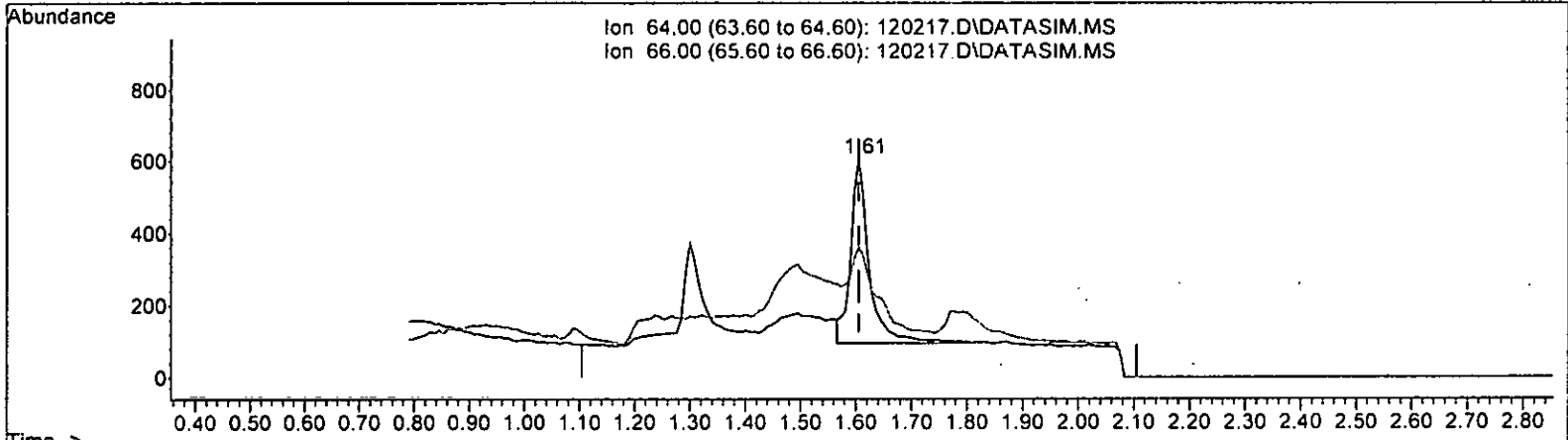
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	41.99
0.00	0.00	0.00
0.00	0.00	0.00

M 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(8) Chloroethane (TMP)

1.605min (+ 0.000) 0.689 ppb

response 1165

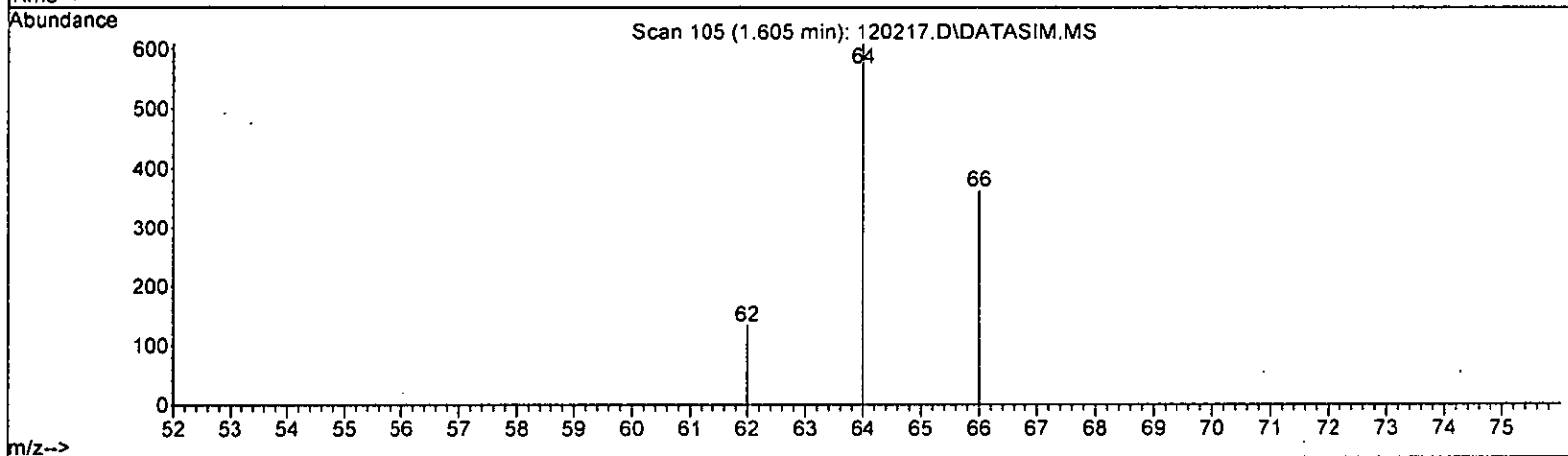
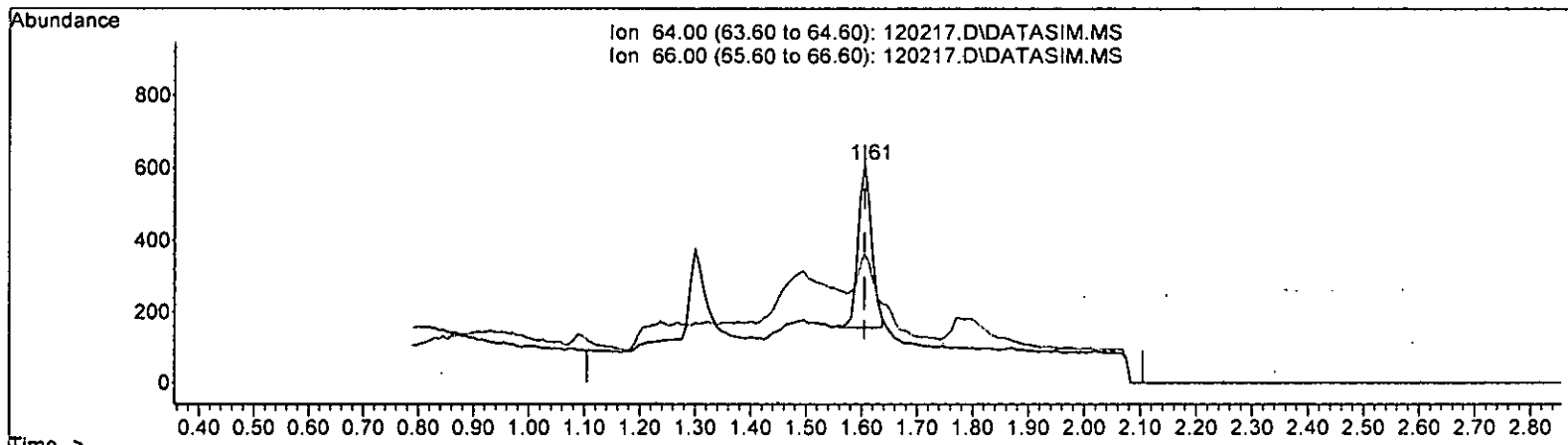
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	38.21
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(8) Chloroethane (TMP)

1.605min (+ 0.000) 0.422 ppb m

response 763

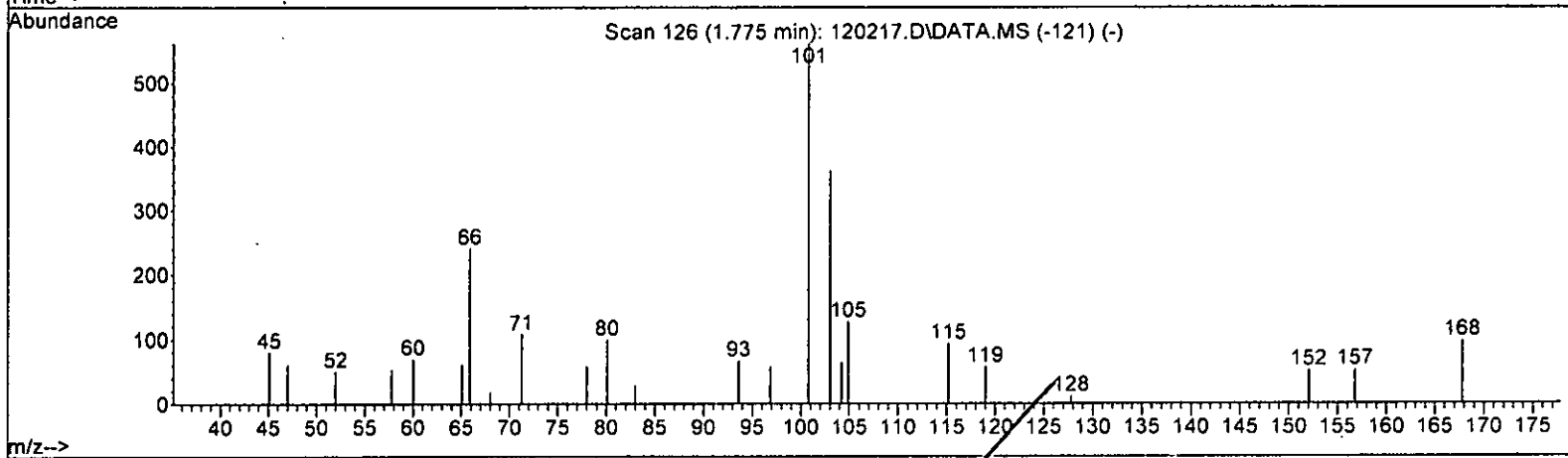
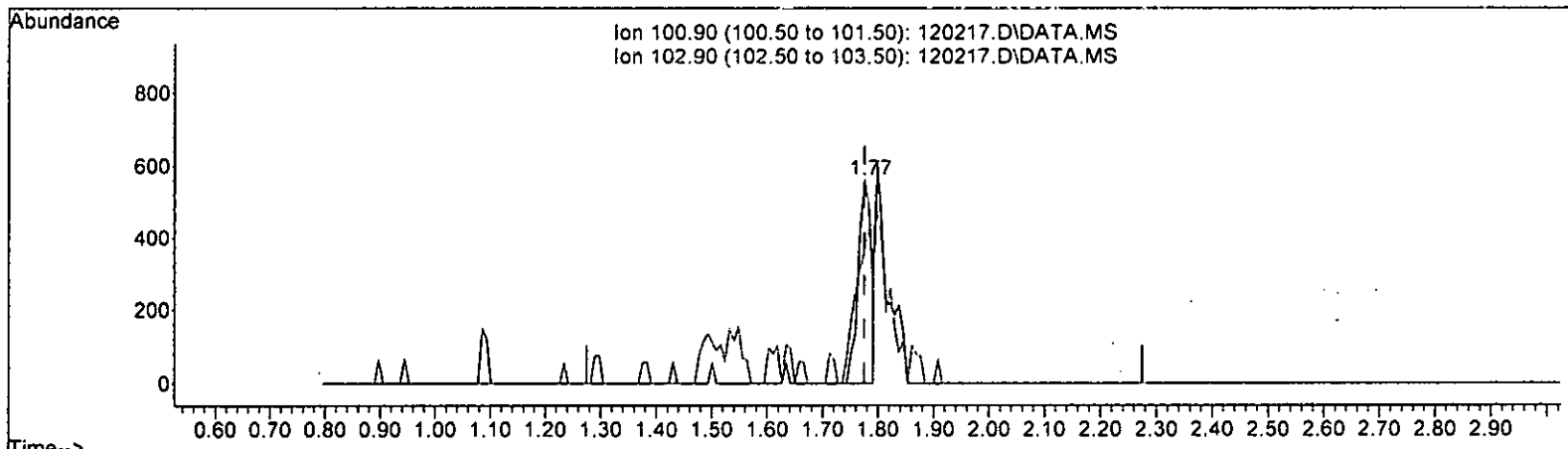
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	59.54
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.775min (-0.000) 0.228 ppb

response 934

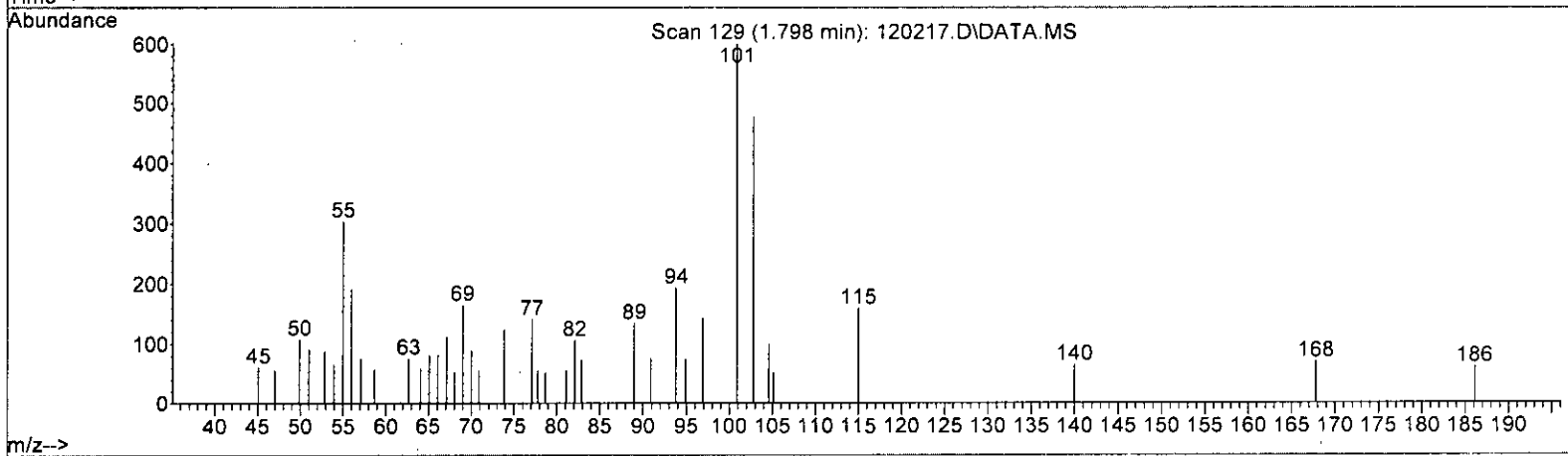
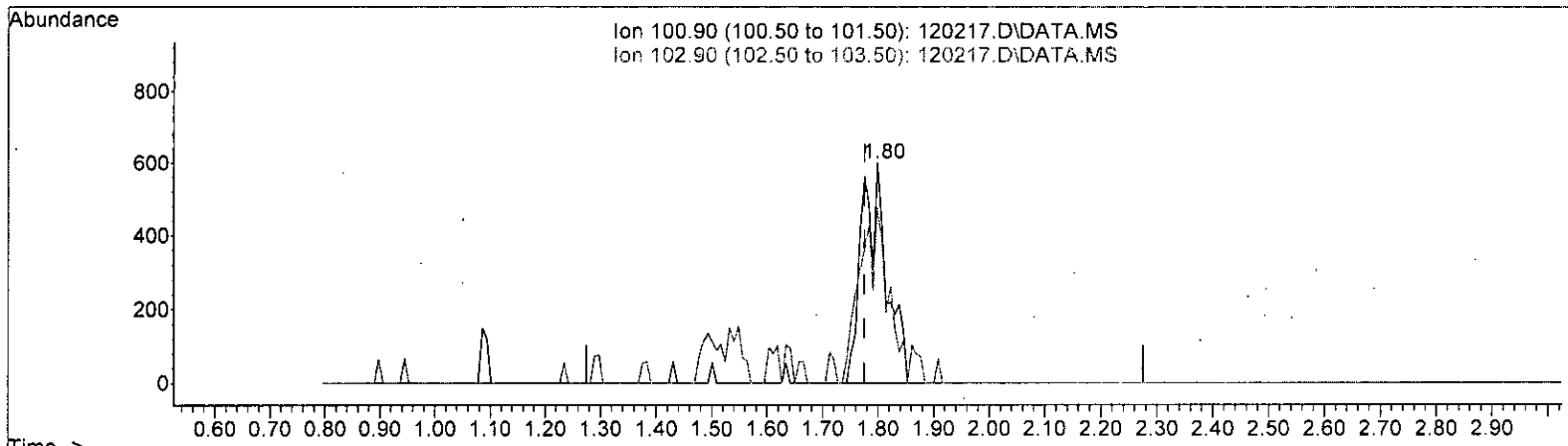
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.53
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.798min (+ 0.023) 0.458 ppb m

response 1877

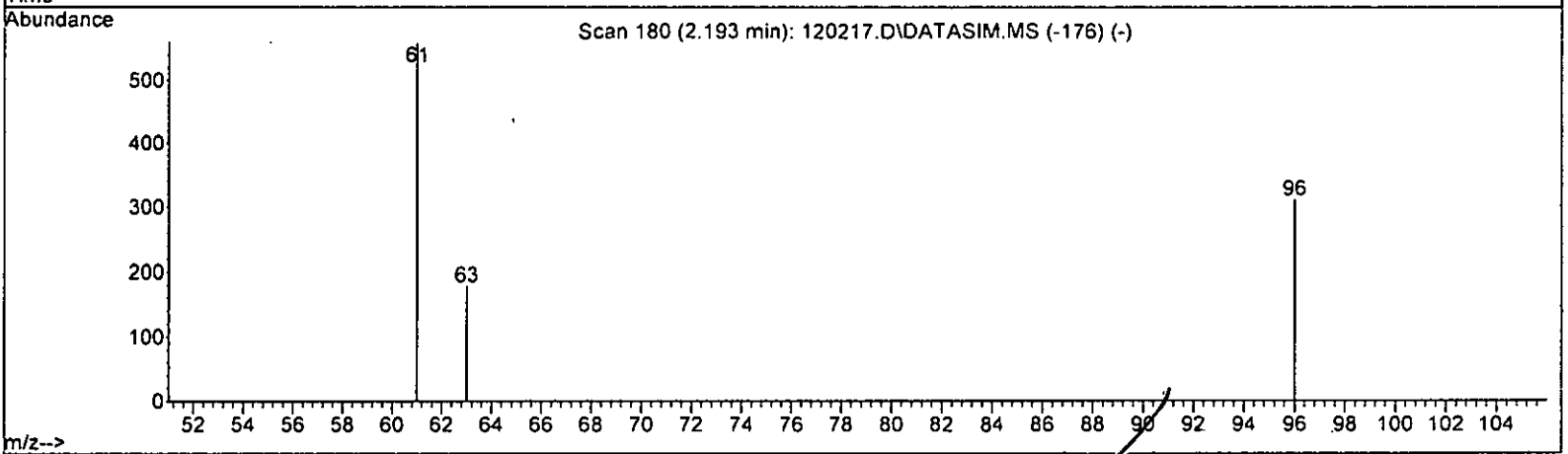
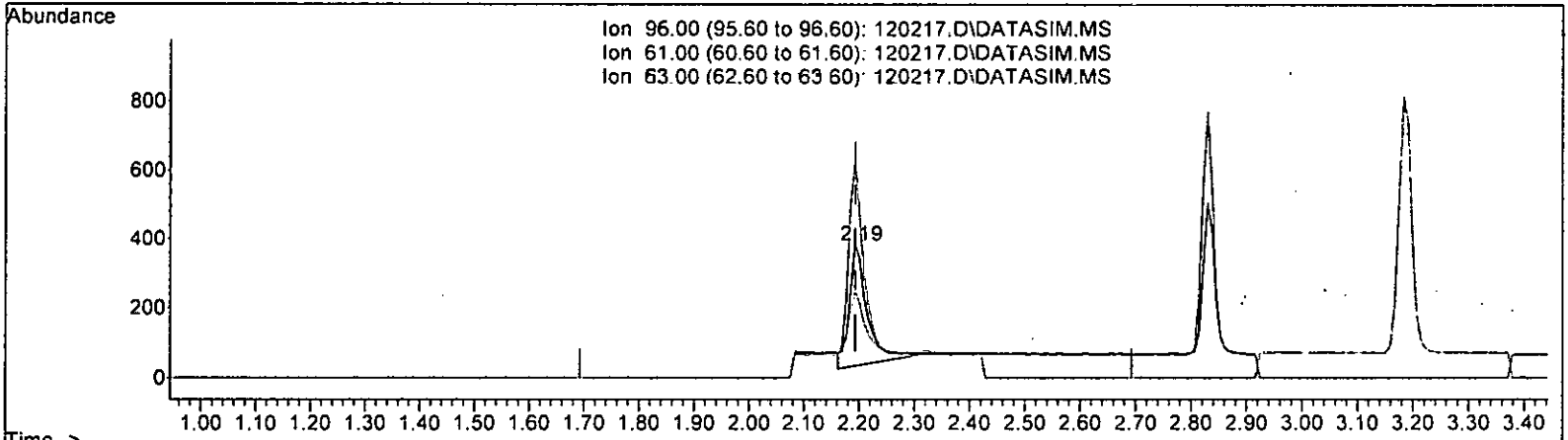
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	79.37#
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 0.674 ppb

response 780

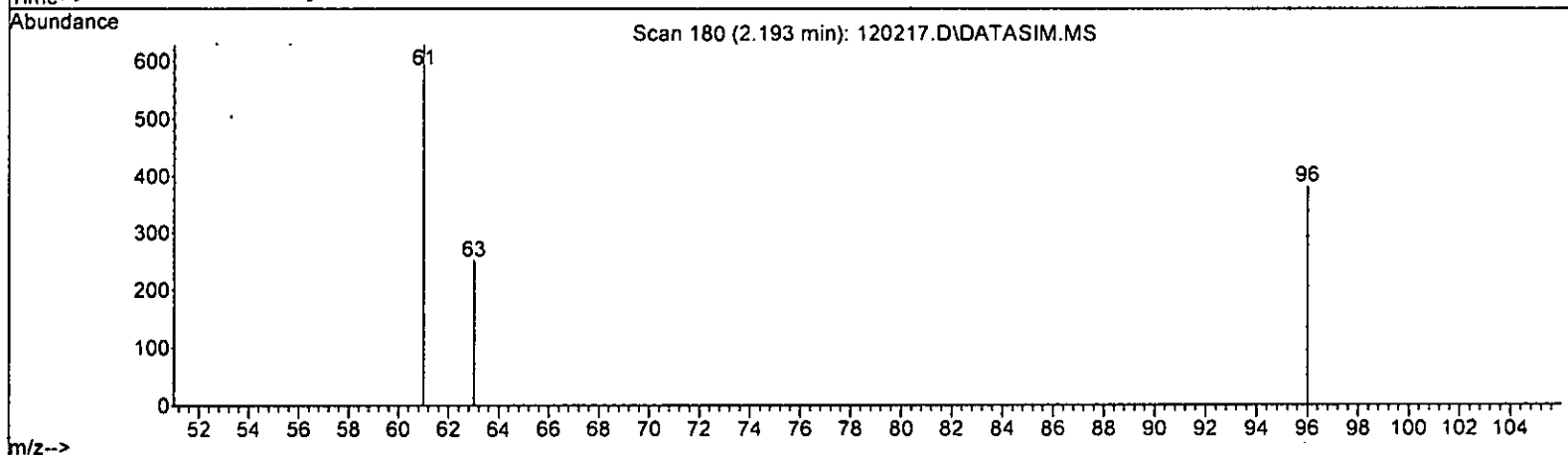
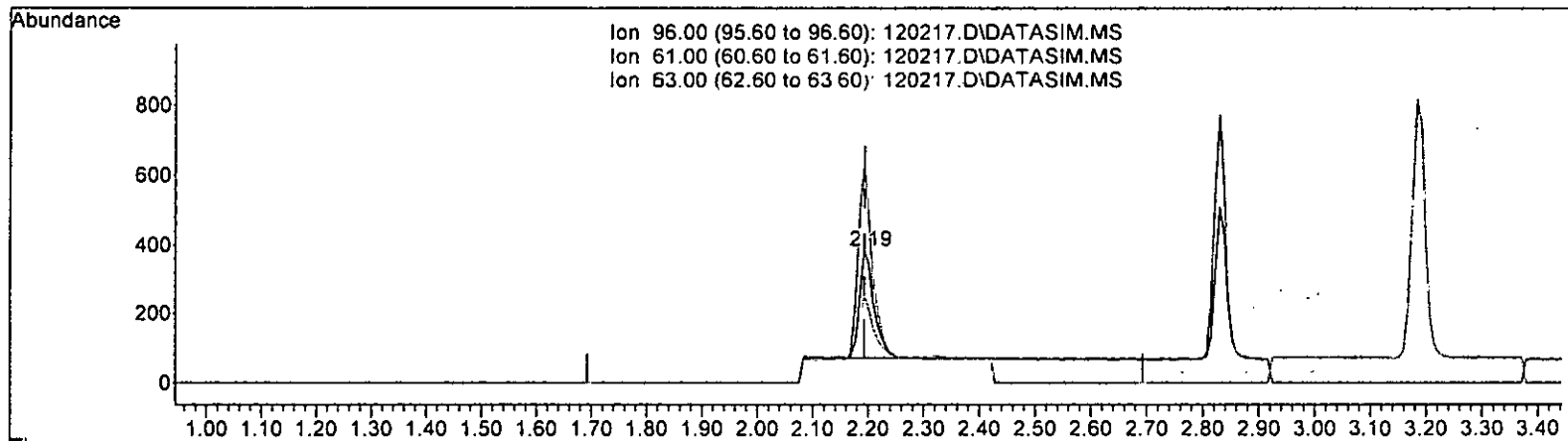
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	179.23#
63.00	55.30	56.55
0.00	0.00	0.00

*Handwritten note: m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 0.486 ppb m

response 569

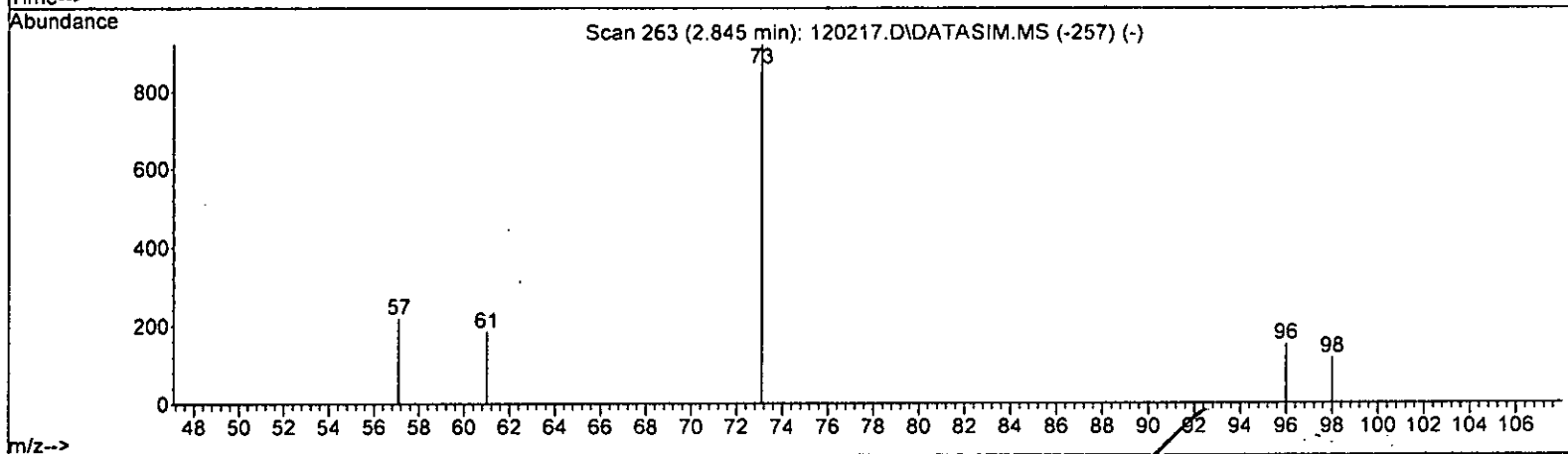
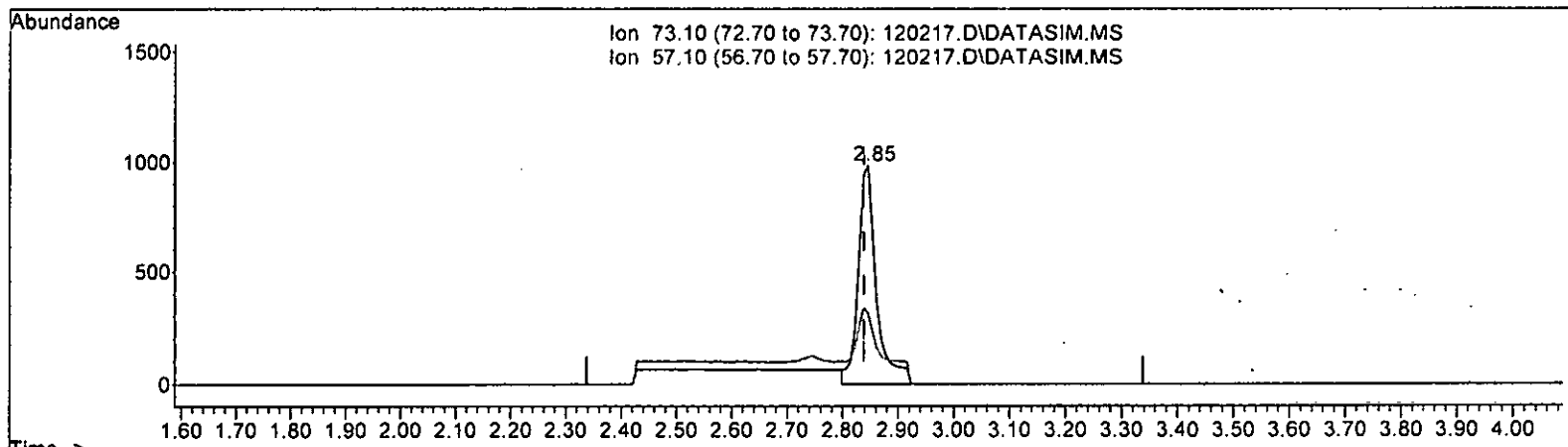
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	164.14
63.00	55.30	65.71
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.007) 0.638 ppb

response 2213

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	32.25
0.00	0.00	0.00
0.00	0.00	0.00

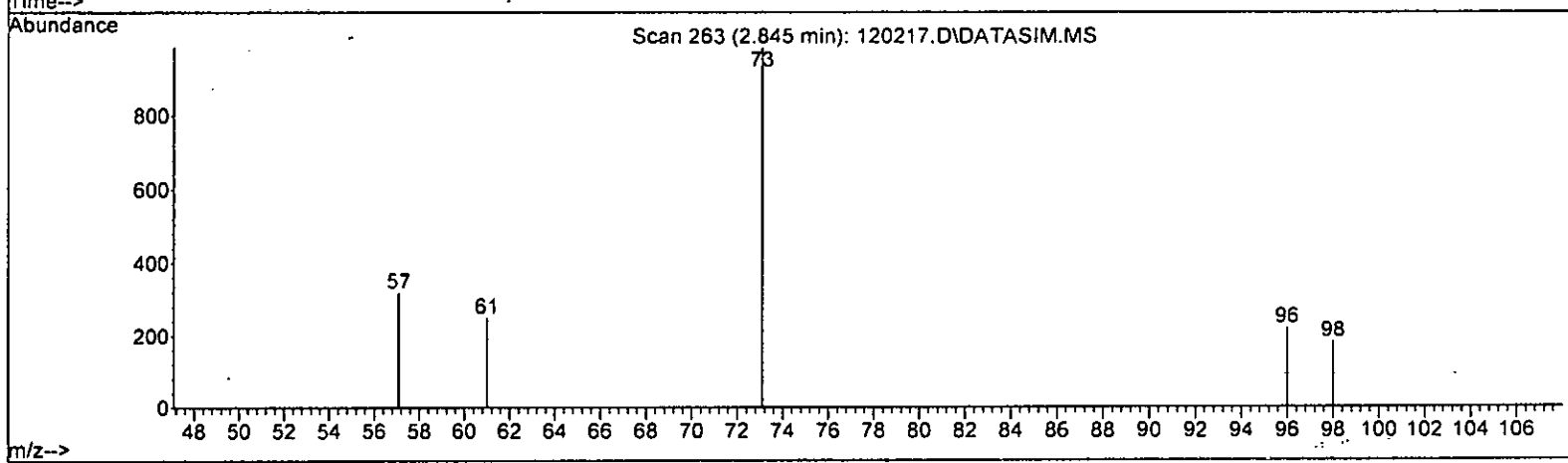
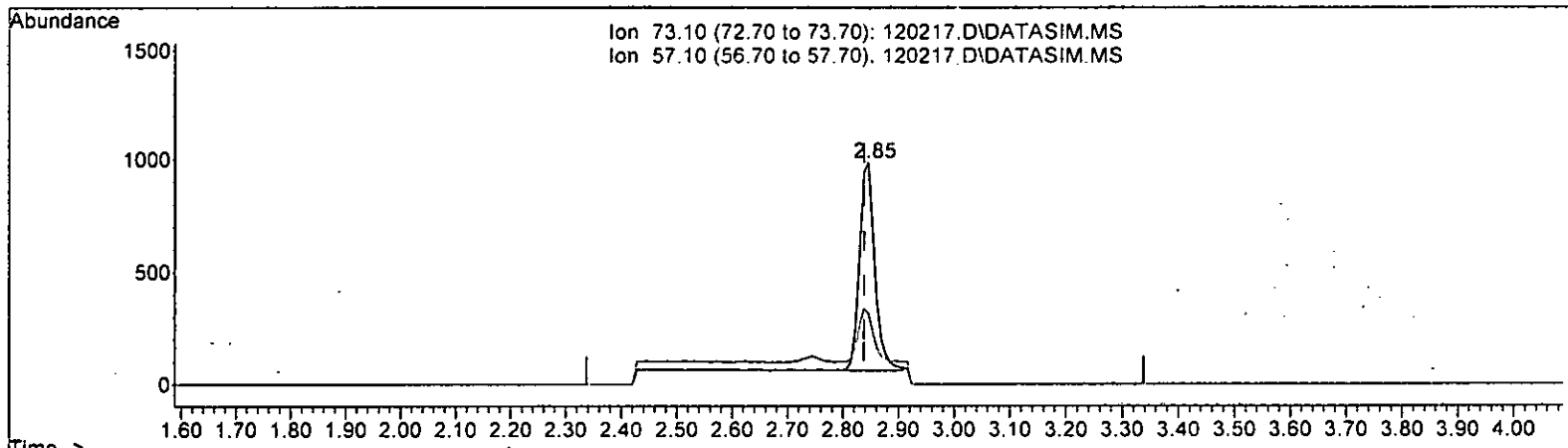
*m 125*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.007) 0.507 ppb m

response 1771

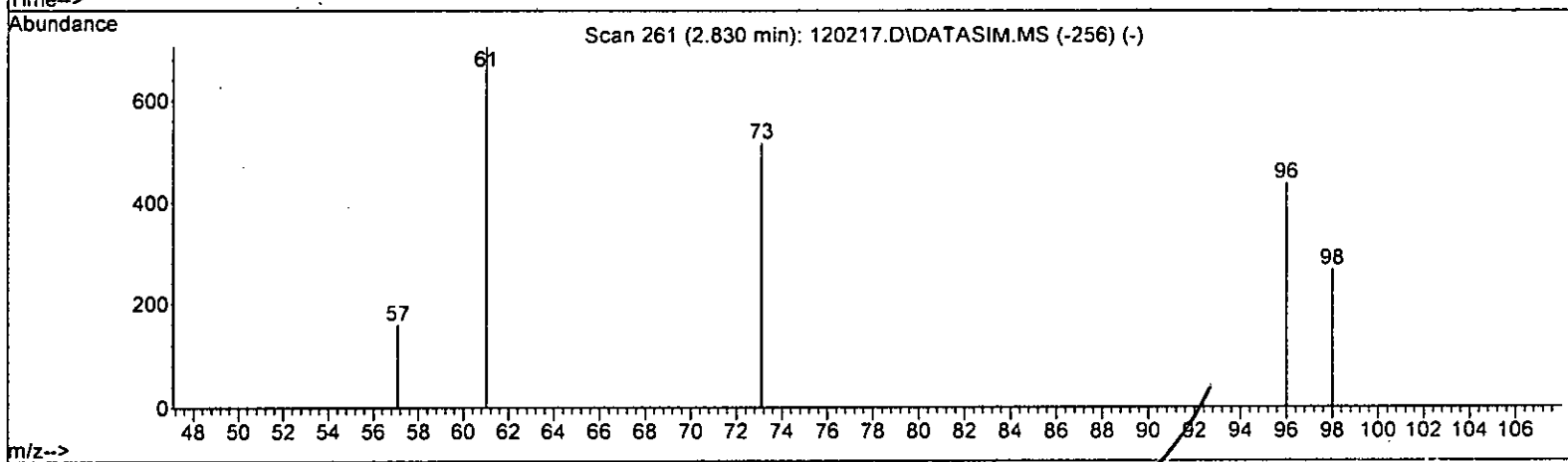
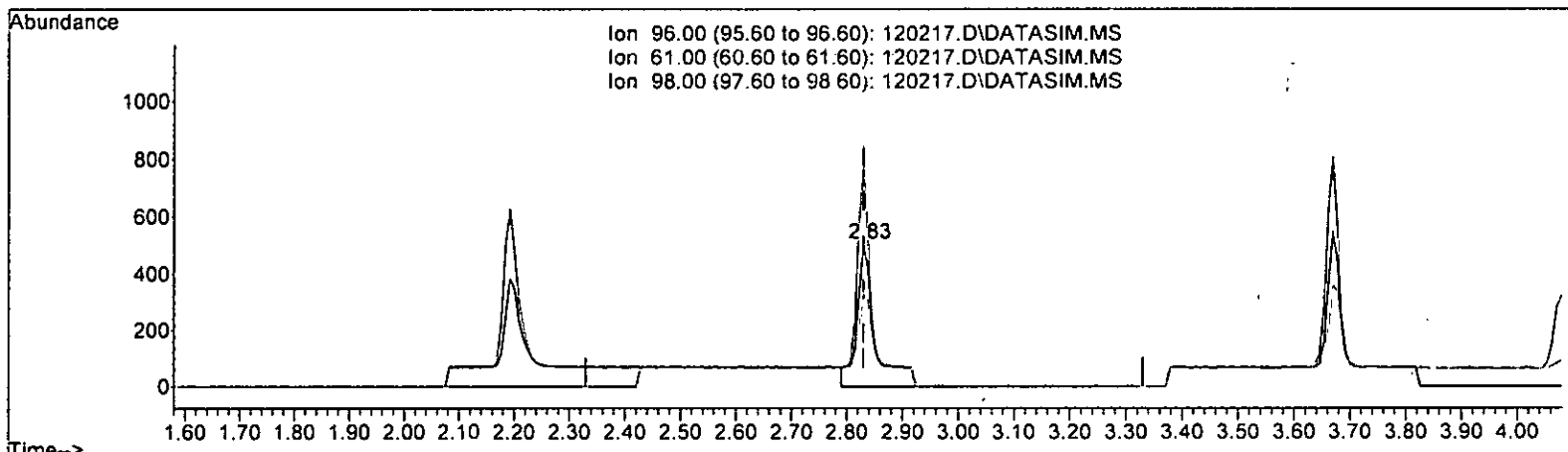
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	32.25
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 0.915 ppb

response 1153

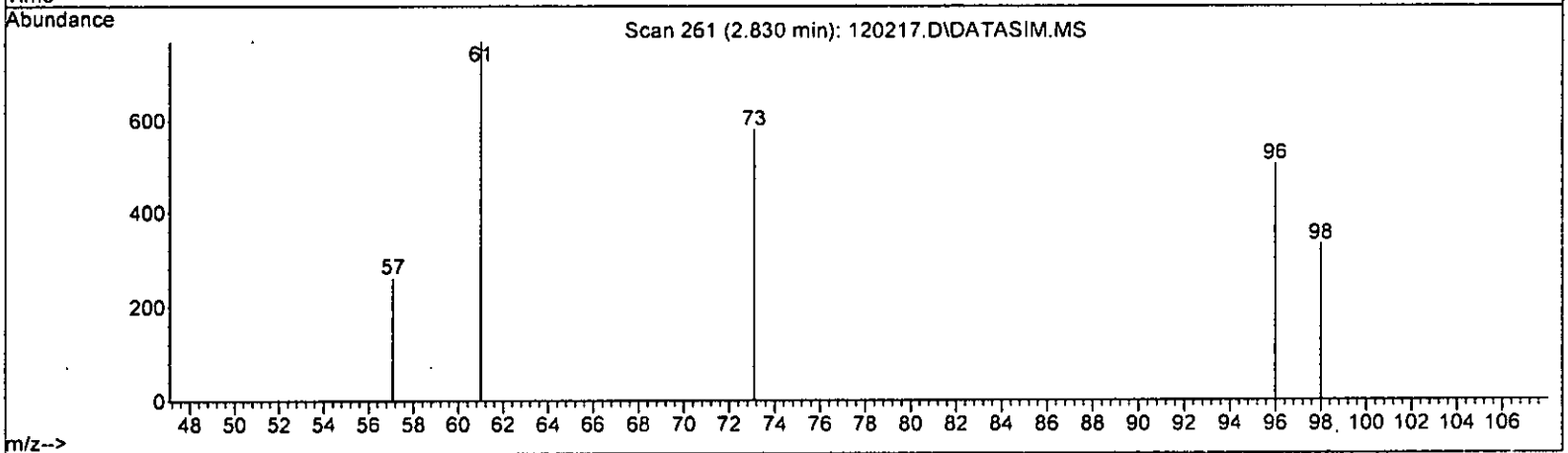
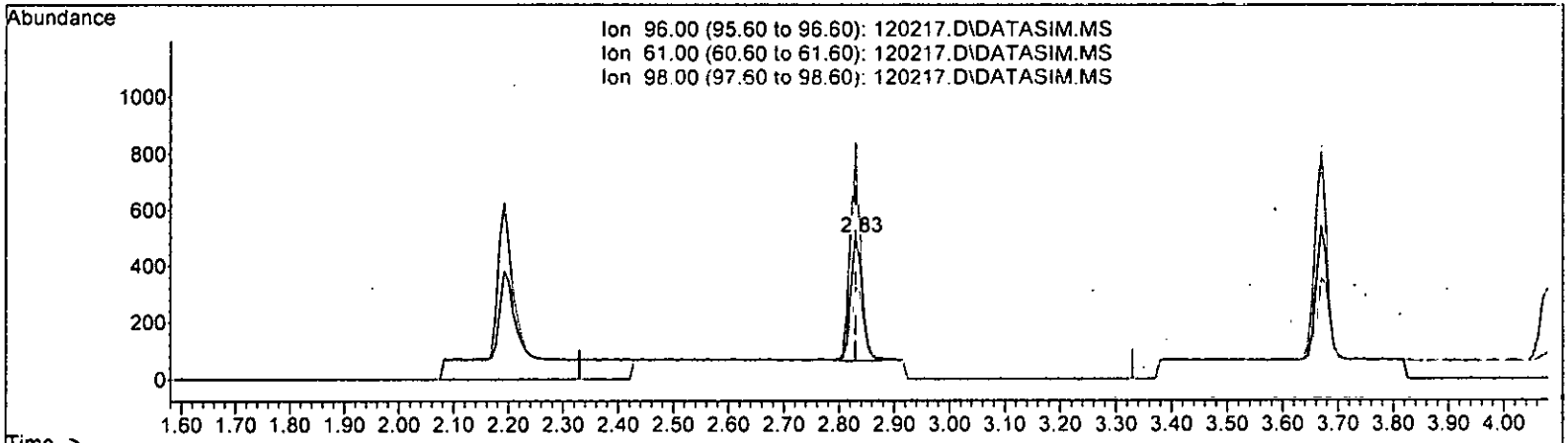
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	152.48
98.00	68.00	65.74
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 0.514 ppb m

response 666

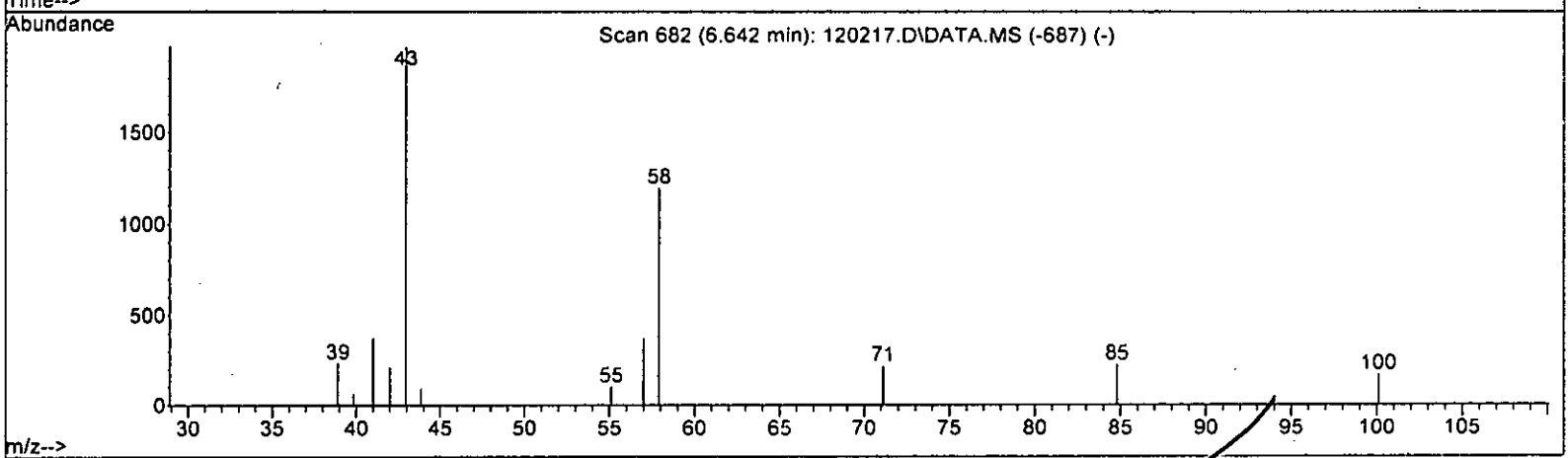
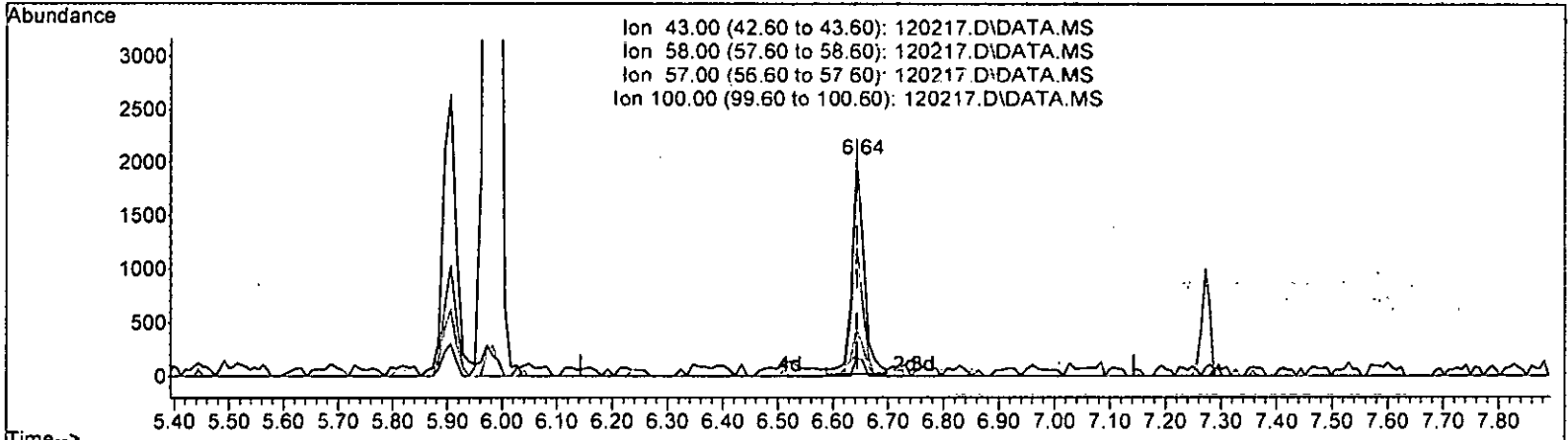
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	152.48
98.00	68.00	65.74
0.00	0.00	0.00

12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

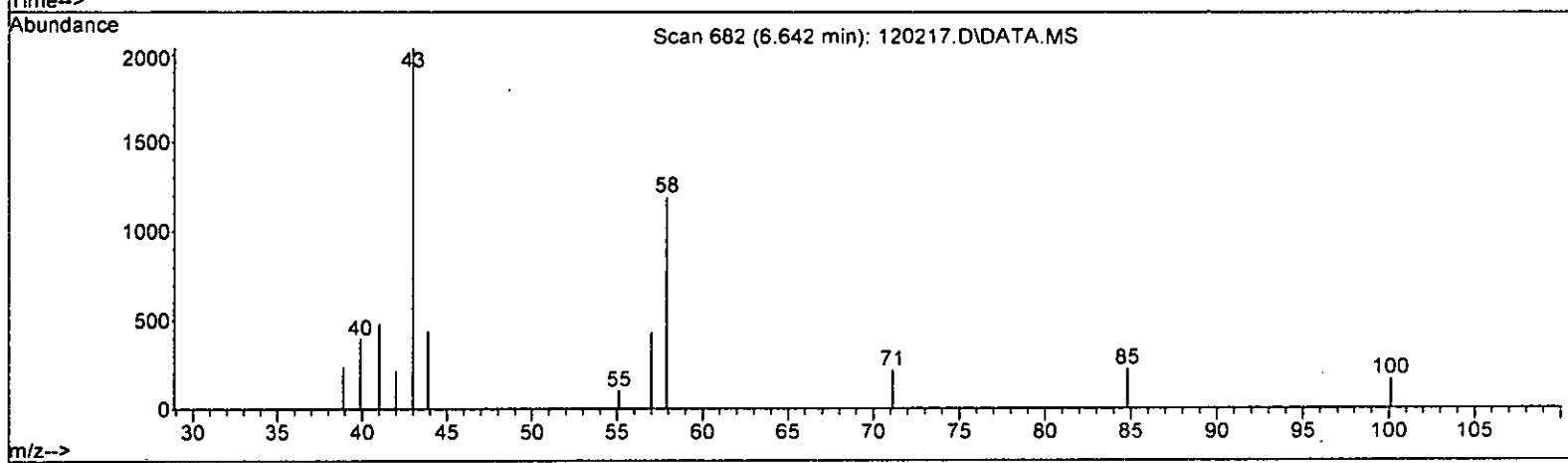
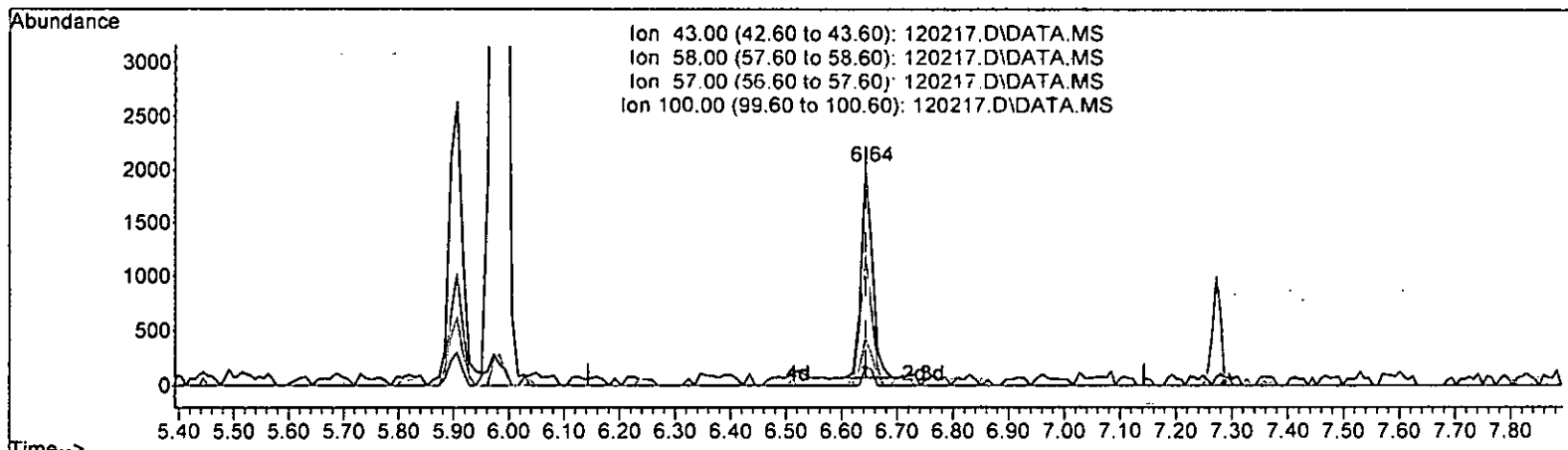
m 12.5

(43) 2-Hexanone (TMP)			
6.642min (-0.001) 2.745 ppb			
response	3056		
Ion	Exp%	Act%	
43.00	100.00	100.00	
58.00	56.00	60.15	
57.00	21.00	21.72	
100.00	10.90	8.38	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(43) 2-Hexanone (TMP)

6.642min (-0.001) 2.437 ppb m

response 2714

Ion	Exp%	Act%
43.00	100.00	100.00
58.00	56.00	58.47
57.00	21.00	21.11
100.00	10.90	8.15

~ 12.5

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM511\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.02
3 S Dibromofluoromethane	10.000	9.829	1.7	100	0.00
4 TMP Dichlorodifluoromethane	0.500	0.502	-0.4	100	0.00
5 TMP Chloromethane	0.500	0.533	-6.6	100	0.00
6 TMP Vinyl chloride	0.500	0.468	6.4	100	0.00
7 TMP Bromomethane	-1.000	-1.626	0.0	0	0.00
8 TMP Chloroethane	0.500	0.422	15.6	100	0.00
9 TMP Trichlorofluoromethane	0.500	0.458	8.4	100	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	2.500	3.127	-25.1#	100	0.00
12 TMP 1,1-Dichloroethene	0.500	0.486	2.8	100	0.00
13 TMP Hexane	0.500	0.547	-9.4	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	2.500	2.630	-5.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.500	0.507	-1.4	99	0.00
17 TMP trans-1,2-Dichloroethene	0.500	0.514	-2.8	103	0.00
18 TMP Diisopropyl ether (DIPE)	0.500	0.551	-10.2	100	0.00
19 TMP 1,1-Dichloroethane	0.500	0.514	-2.8	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.500	0.518	-3.6	100	0.00
21 TMP 2,2-Dichloropropane	0.500	0.448	10.4	100	0.00
22 TMP cis-1,2-Dichloroethene	0.500	0.507	-1.4	100	0.00
23 TMP Chloroform	0.500	0.507	-1.4	100	0.00
24 TMP 2-Butanone (MEK)	2.500	1.793	28.3#	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.500	0.497	0.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.500	0.500	0.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.500	0.497	0.6	100	0.00
28 TMP 1,1-Dichloropropene	0.500	0.526	-5.2	100	0.00
29 TMP Carbon tetrachloride	0.500	0.465	7.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.334	6.7	100	0.00
31 TMP Benzene	0.500	0.502	-0.4	100	0.00
32 TMP Trichloroethene	0.500	0.493	1.4	100	0.00
33 TMP 1,2-Dichloropropane	0.500	0.565	-13.0	100	0.00
34 TMP Bromodichloromethane	0.500	0.469	6.2	100	0.00
35 S Toluene-d8	10.000	9.619	3.8	100	0.00
36 TMP Dibromomethane	0.500	0.614	-22.8#	100	0.00
37 TMP 4-Methyl-2-pentanone	2.500	2.441	2.4	100	0.00
38 TMP cis-1,3-Dichloropropene	0.500	0.526	-5.2	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.500	0.507	-1.4	100	0.00
41 TMP trans-1,3-Dichloropropene	0.500	0.536	-7.2	100	0.00
42 TMP 1,1,2-Trichloroethane	0.500	0.497	0.6	100	0.00
43 TMP 2-Hexanone	2.500	2.437	2.5	89	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.500	0.546	-9.2	100	0.00
45 TMP Tetrachloroethene	0.500	0.495	1.0	100	0.00
46 TMP Dibromochloromethane	0.500	0.514	-2.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.500	0.504	-0.8	100	0.00
48 TMP Chlorobenzene	0.500	0.538	-7.6	100	0.00
49 TMP Ethylbenzene	0.500	0.526	-5.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.500	0.497	0.6	100	0.00
51 TMP m,p-Xylene	1.000	1.042	-4.2	100	0.00
52 TMP o-Xylene	0.500	0.518	-3.6	100	0.00
53 TMP Styrene	0.500	0.527	-5.4	100	0.00
54 TMP Isopropylbenzene	0.500	0.490	2.0	100	0.00
55 TMP Bromoform	0.500	0.492	1.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.046	-0.5	100	0.00
58 TMP n-Propylbenzene	0.500	0.528	-5.6	100	0.00
59 TMP Bromobenzene	0.500	0.584	-16.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.500	0.527	-5.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.500	0.595	-19.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.500	0.533	-6.6	100	0.00
63 TMP 2-Chlorotoluene	0.500	0.580	-16.0	100	0.00
64 TMP 4-Chlorotoluene	0.500	0.548	-9.6	100	0.00
65 TMP tert-Butylbenzene	0.500	0.516	-3.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.500	0.532	-6.4	100	0.00
67 TMP sec-Butylbenzene	0.500	0.510	-2.0	100	0.00
68 TMP p-Isopropyltoluene	0.500	0.512	-2.4	100	0.00
69 TMP 1,3-Dichlorobenzene	0.500	0.514	-2.8	100	0.00
70 TMP 1,4-Dichlorobenzene	0.500	0.567	-13.4	100	0.00
71 TMP 1,2-Dichlorobenzene	0.500	0.541	-8.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.500	0.481	3.8	100	0.00
74 TMP Hexachlorobutadiene	0.500	0.546	-9.2	100	0.00
75 TMP Naphthalene	0.500	0.478	4.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.500	0.449	10.2	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.02
3 S Dibromofluoromethane	0.264	0.259	1.9	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	1.323	-39.1#	100	0.00
6 TMP Vinyl chloride	0.862	0.742	13.9	100	0.00
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	0.00
8 TMP Chloroethane	0.341	0.335	1.8	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.823	8.5	100	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.039	-25.8#	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.249	8.1	100	0.00
13 TMP Hexane	0.469	0.725	-54.6#	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.049	-6.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.777	4.3	99	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.292	7.0	103	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	1.051	-10.3	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.529	3.3	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.318	-3.6	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.381	-9.8	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.310	5.8	100	0.00
23 TMP Chloroform	0.477	0.484	-1.5	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.221	-27.7#	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.734	0.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.425	11.3	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.472	4.5	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.388	-5.4	100	0.00
29 TMP Carbon tetrachloride	0.396	0.368	7.1	100	0.00
30 5 1,2-Dichloroethane-d4	0.060	0.056	6.7	100	0.00
31 TMP Benzene	1.103	1.055	4.4	100	0.00
32 TMP Trichloroethene	0.368	0.332	9.8	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.356	-13.0	100	0.00
34 TMP Bromodichloromethane	0.375	0.352	6.1	100	0.00
35 S Toluene-d8	0.975	0.938	3.8	100	0.00
36 TMP Dibromomethane	0.181	0.223	-23.2#	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.053	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.466	-5.2	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.920	6.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.545	-7.3	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.288	-1.1	100	0.00
43 TMP 2-Hexanone	0.312	0.304	2.6	89	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.529	-9.3	100	0.00
45 TMP Tetrachloroethene	0.420	0.361	14.0	100	0.00
46 TMP Dibromochloromethane	0.366	0.377	-3.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.346	8.7	100	0.00
48 TMP Chlorobenzene	0.957	1.031	-7.7	100	0.00
49 TMP Ethylbenzene	1.885	1.787	5.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.356	0.6	100	0.00
51 TMP m,p-Xylene	0.705	0.672	4.7	100	0.00
52 TMP o-Xylene	0.683	0.653	4.4	100	0.00
53 TMP Styrene	1.004	1.058	-5.4	100	0.00
54 TMP Isopropylbenzene	1.606	1.575	1.9	100	0.00
55 TMP Bromoform	0.269	0.265	1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.868	-0.5	100	0.00
58 TMP n-Propylbenzene	3.386	3.575	-5.6	100	0.00
59 TMP Bromobenzene	0.790	0.922	-16.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.616	-5.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.872	-19.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.638	-6.5	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.383	-16.0	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.583	-9.7	100	0.00
65 TMP tert-Butylbenzene	2.194	2.265	-3.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.737	-6.3	100	0.00
67 TMP sec-Butylbenzene	3.160	3.226	-2.1	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.770	-2.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.511	-2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.697	-13.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.471	-8.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.000#	100.0#	0#	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.978	0.942	3.7	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.563	-9.1	100	0.00
75 TMP Naphthalene	2.401	2.294	4.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.795	10.2	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	45613	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35739	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19562	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11816	9.829	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.30%
30) 1,2-Dichloroethane-d4	4.36	102	2538	9.334	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	93.30%
35) Toluene-d8	5.98	98	42796	9.619	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	96.20%
57) 4-Bromofluorobenzene	8.38	95	16981	10.046	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	1.88	45	72	No Calib		
4) Dichlorodifluoromethane	1.09	85	1628	0.502	ppb	96
5) Chloromethane	1.23	50	3017	0.533	ppb	99
6] Vinyl chloride	1.30	62	1692m	0.468	ppb	
7) Bromomethane	1.55	94	1667	Below Cal	#	51
8] Chloroethane	1.61	64	763m	0.422	ppb	
9) Trichlorofluoromethane	1.80	101	1877m	0.458	ppb	
10) 2-Propanol	2.41	45	290	No Calib		
11) Acetone	2.27	58	445	3.127	ppb	97
12] 1,1-Dichloroethene	2.19	96	569m	0.486	ppb	
13) Hexane	3.05	57	1654	0.547	ppb	85
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	2.75	59	555	2.630	ppb	98
16] Methyl t-butyl ether (...)	2.85	73	1771m	0.507	ppb	
17] trans-1,2-Dichloroethene	2.83	96	666m	0.514	ppb	
18) Diisopropyl ether (DIPE)	3.25	45	2396	0.551	ppb	85
19] 1,1-Dichloroethane	3.18	63	1207	0.514	ppb	96
20) Ethyl t-butyl ether (E...)	3.55	87	726	0.518	ppb	88
21) 2,2-Dichloropropane	3.67	77	869	0.448	ppb	90
22] cis-1,2-Dichloroethene	3.67	96	707	0.507	ppb	93
23) Chloroform	3.94	83	1103	0.507	ppb	92
24) 2-Butanone (MEK)	3.71	43	2516	1.793	ppb	95
25) t-Amyl methyl ether (T...)	4.50	73	1674	0.497	ppb	90
26] 1,2-Dichloroethane (EDC)	4.42	62	969	0.500	ppb	96
27] 1,1,1-Trichloroethane	4.08	97	1076	0.497	ppb	95
28) 1,1-Dichloropropene	4.22	75	884	0.526	ppb	73
29) Carbon tetrachloride	4.21	117	840	0.465	ppb	95
31] Benzene	4.39	78	2405	0.502	ppb	93
32] Trichloroethene	4.93	95	758	0.493	ppb	95
33) 1,2-Dichloropropane	5.13	63	811	0.565	ppb	# 100
34) Bromodichloromethane	5.37	83	802	0.469	ppb	69
36) Dibromomethane	5.23	93	508	0.614	ppb	83

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

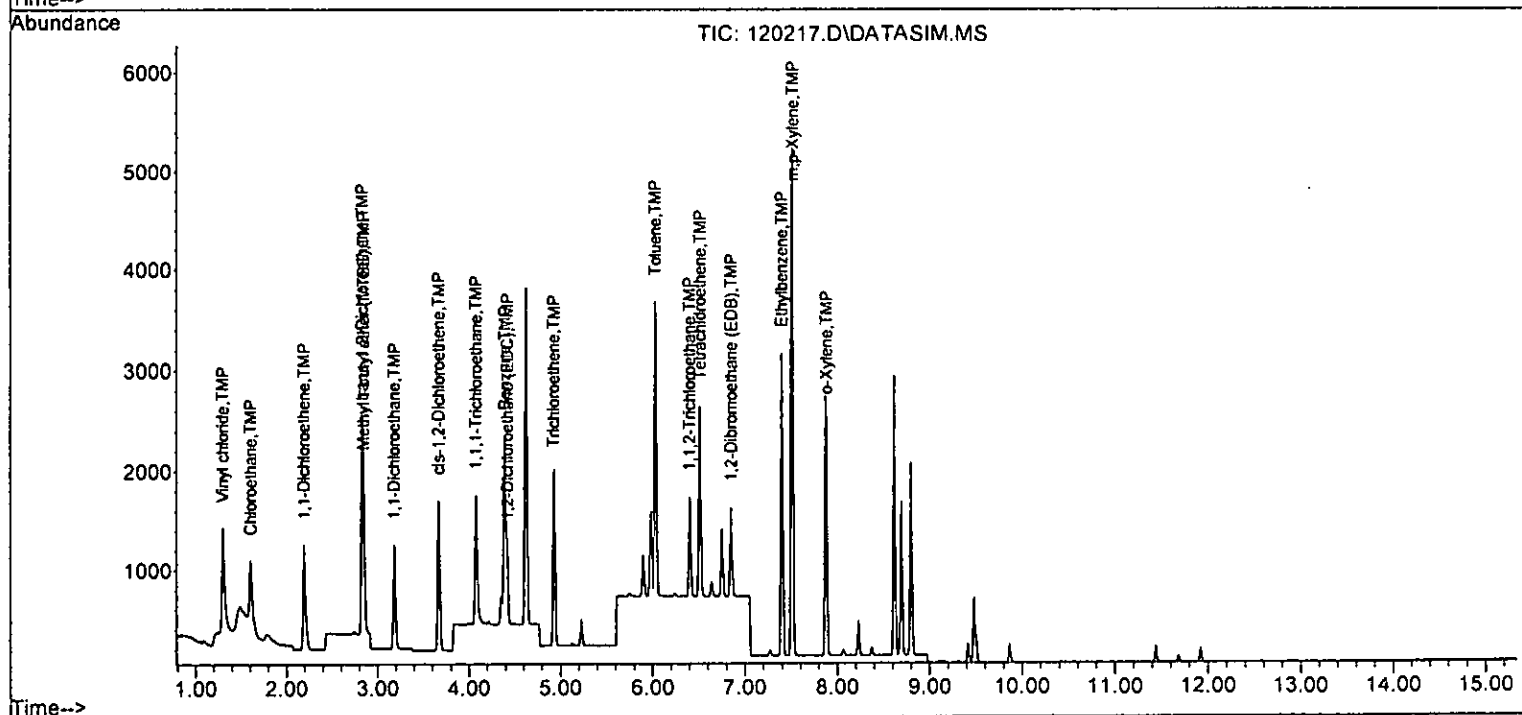
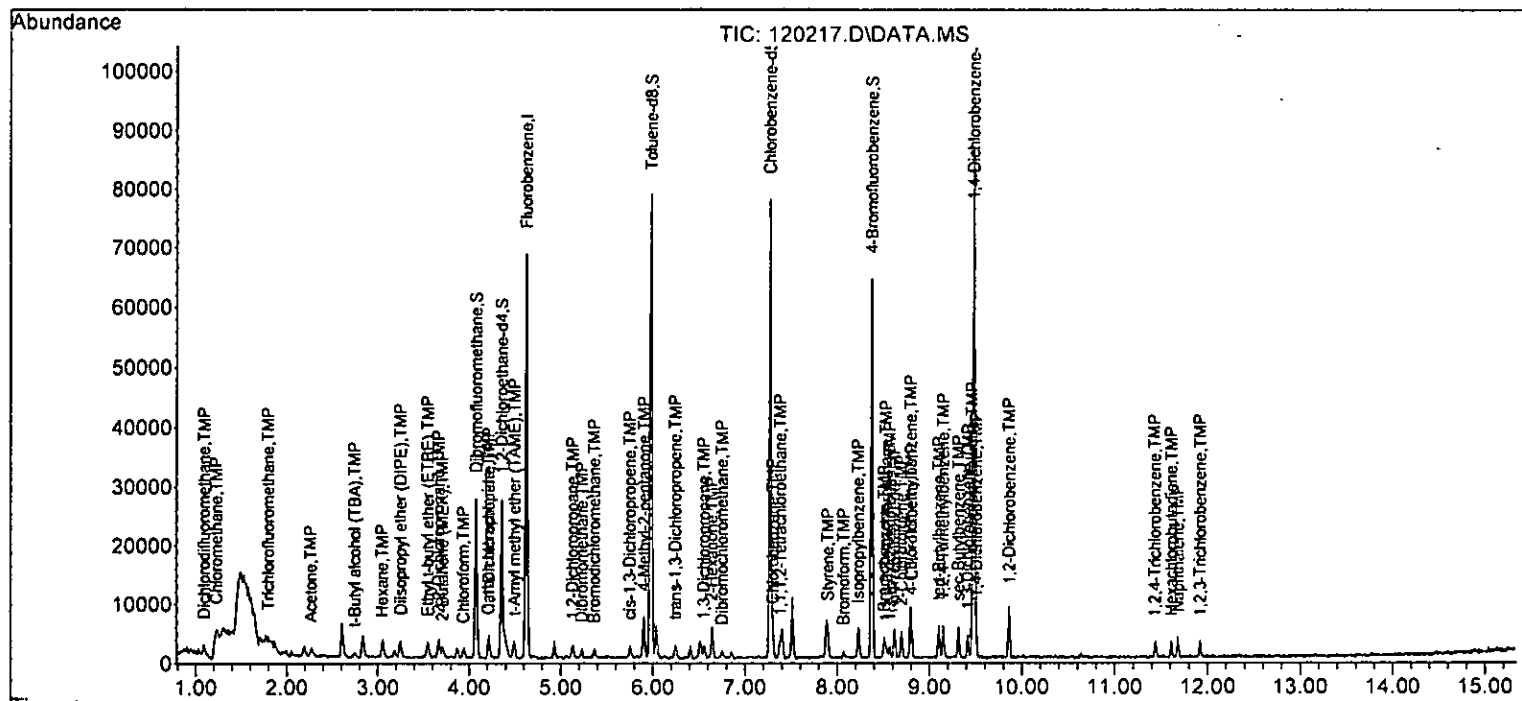
Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	603	2.441	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	1063	0.526	ppb	96
40] Toluene	6.03	92	1644	0.507	ppb	97
41) trans-1,3-Dichloropropene	6.25	75	973	0.536	ppb	81
42] 1,1,2-Trichloroethane	6.40	83	514	0.497	ppb	96
43) 2-Hexanone	6.64	43	2714m	2.437	ppb	
44) 1,3-Dichloropropane	6.55	76	946	0.546	ppb	76
45] Tetrachloroethene	6.51	164	645	0.495	ppb	99
46) Dibromochloromethane	6.75	129	673	0.514	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	619	0.504	ppb	100
48) Chlorobenzene	7.30	112	1842	0.538	ppb	90
49] Ethylbenzene	7.40	91	3194	0.526	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	636	0.497	ppb #	60
51] m,p-Xylene	7.52	106	2403	1.042	ppb #	74
52] o-Xylene	7.88	106	1167	0.518	ppb	96
53) Styrene	7.90	104	1890	0.527	ppb	90
54) Isopropylbenzene	8.23	105	2815	0.490	ppb	89
55) Bromoform	8.07	173	473	0.492	ppb	95
58) n-Propylbenzene	8.62	91	3497	0.528	ppb	86
59) Bromobenzene	8.51	156	902	0.584	ppb	86
60) 1,3,5-Trimethylbenzene	8.80	105	2559	0.527	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.53	83	853	0.595	ppb	91
62) 1,2,3-Trichloropropane	8.57	75	624	0.533	ppb	81
63) 2-Chlorotoluene	8.70	91	2331	0.580	ppb	99
64) 4-Chlorotoluene	8.81	91	2526	0.548	ppb	87
65) tert-Butylbenzene	9.10	119	2215	0.516	ppb	93
66) 1,2,4-Trimethylbenzene	9.15	105	2677	0.532	ppb	84
67) sec-Butylbenzene	9.31	105	3155	0.510	ppb	85
68) p-Isopropyltoluene	9.46	119	2709	0.512	ppb	89
69) 1,3-Dichlorobenzene	9.42	146	1478	0.514	ppb	95
70) 1,4-Dichlorobenzene	9.51	146	1660	0.567	ppb	86
71) 1,2-Dichlorobenzene	9.86	146	1439	0.541	ppb	96
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.44	180	921	0.481	ppb #	70
74) Hexachlorobutadiene	11.61	225	551	0.546	ppb	89
75) Naphthalene	11.68	128	2244	0.478	ppb	89
76) 1,2,3-Trichlorobenzene	11.92	180	778	0.449	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCM511

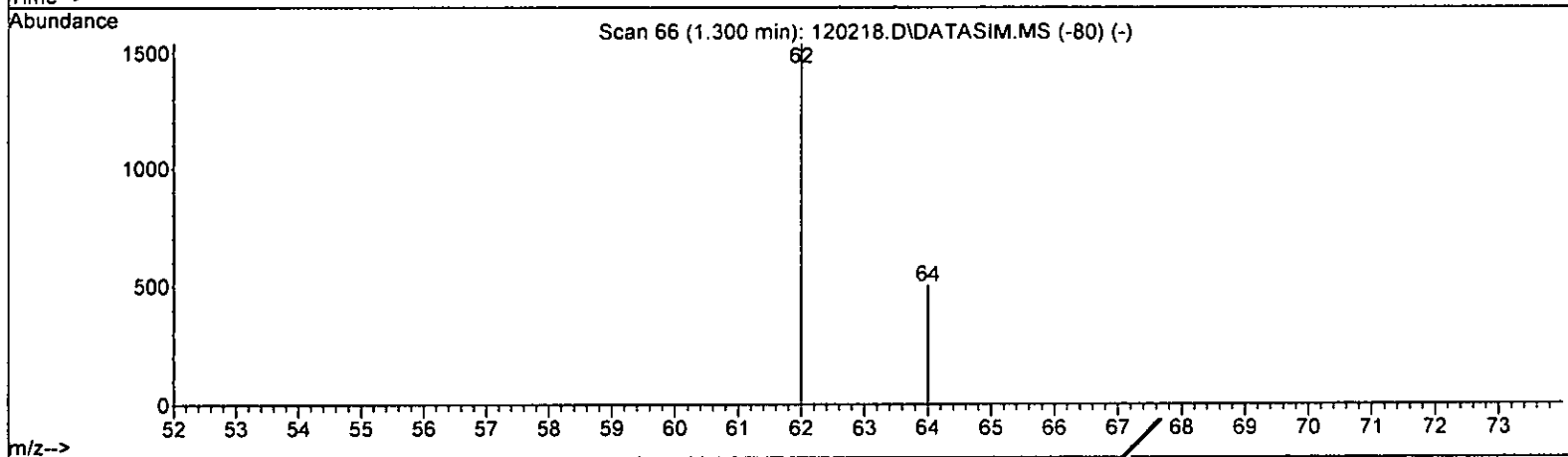
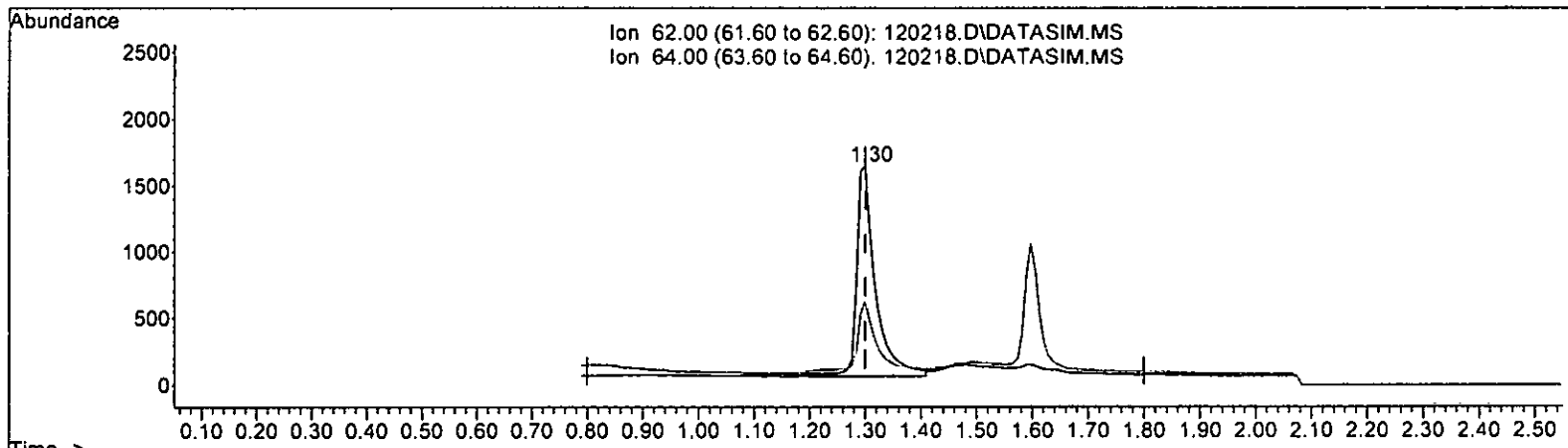
Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(6) Vinyl chloride (TMP) *m 12.5*

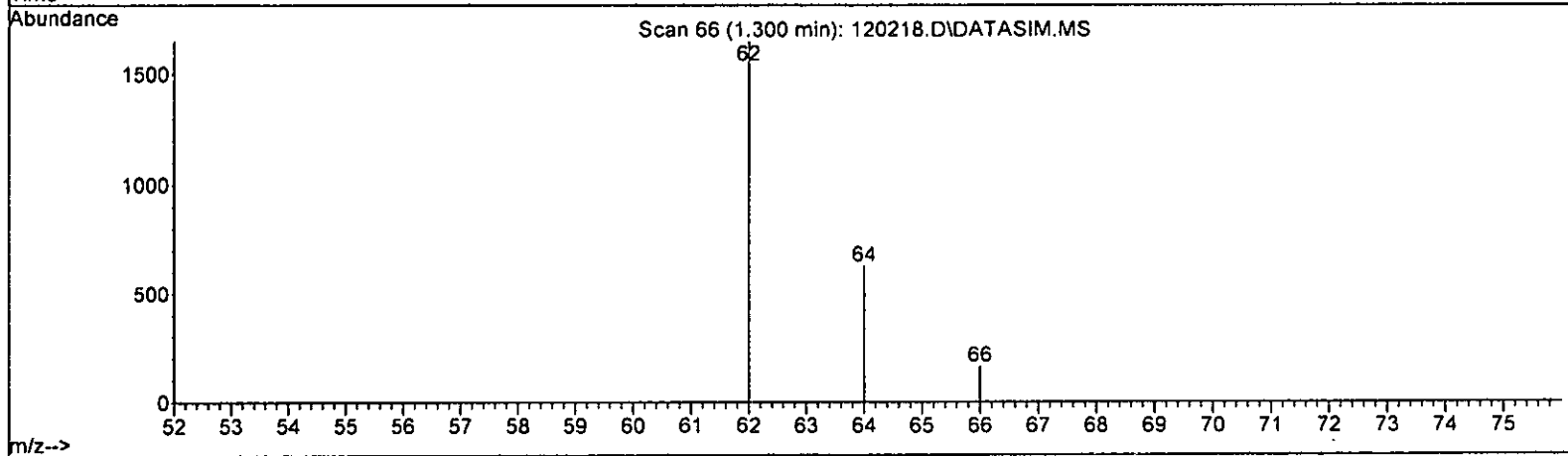
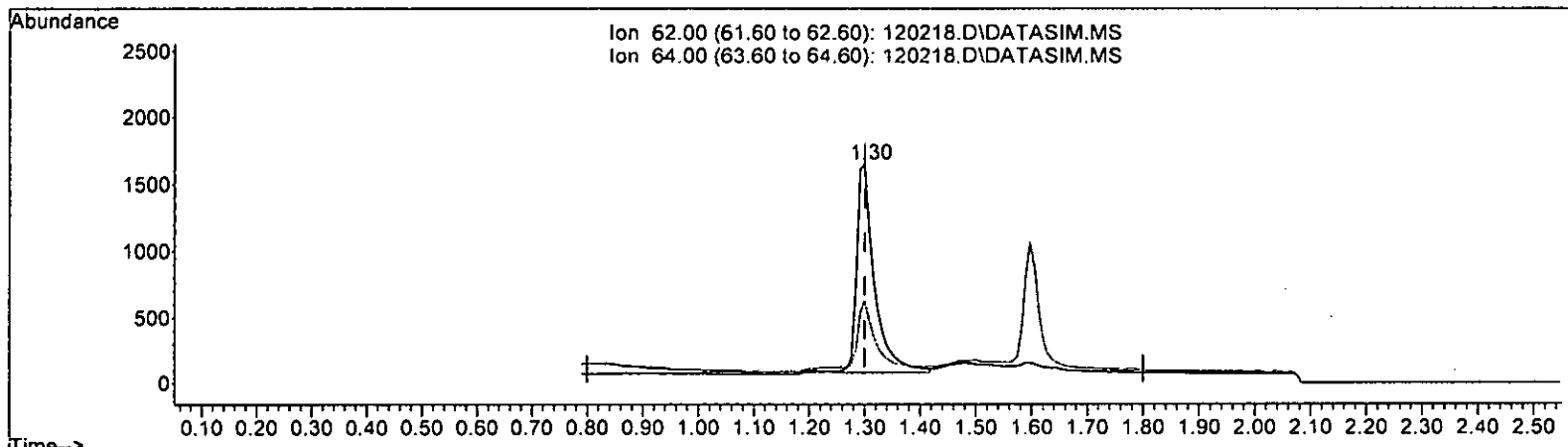
1.300min (-0.000) 1.081 ppb

response	3679
Ion	Exp% Act%
62.00	100.00 100.00
64.00	34.30 34.20
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 120218.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 1.023 ppb m

response 3487

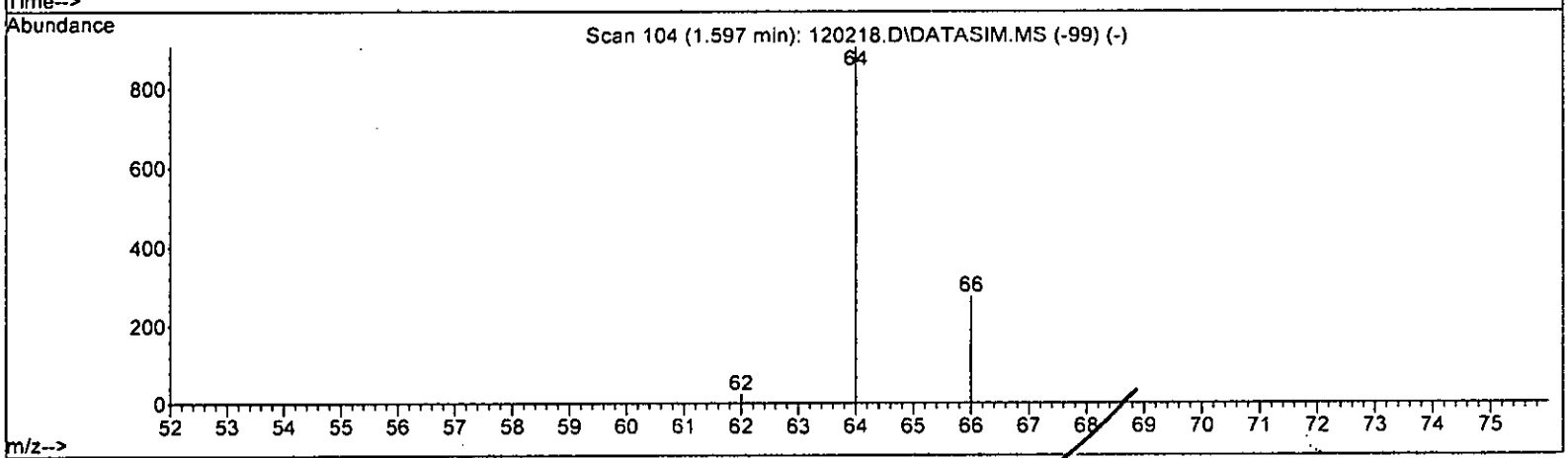
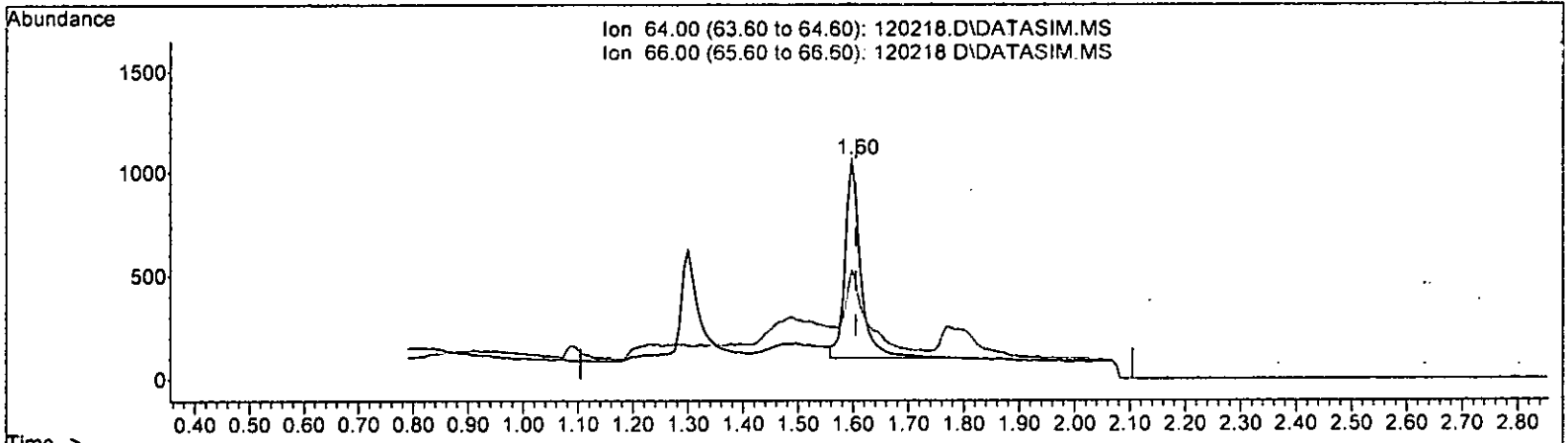
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	38.07
0.00	0.00	0.00
0.00	0.00	0.00

*m 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(8) Chloroethane (TMP)

1.597min (-0.008) 1.201 ppb

response 1884

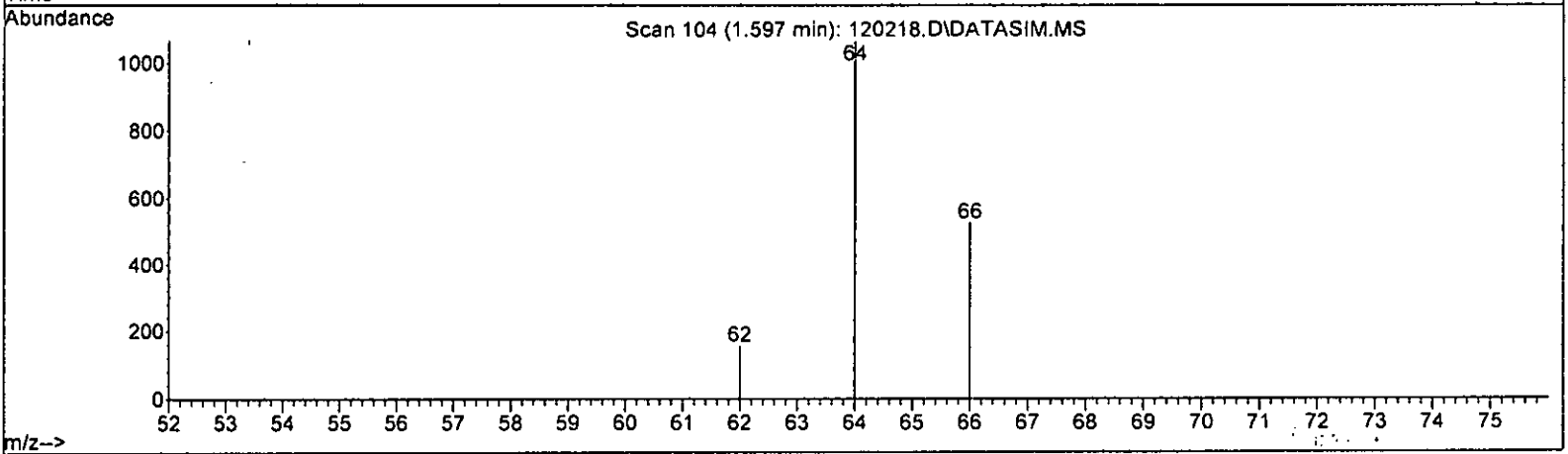
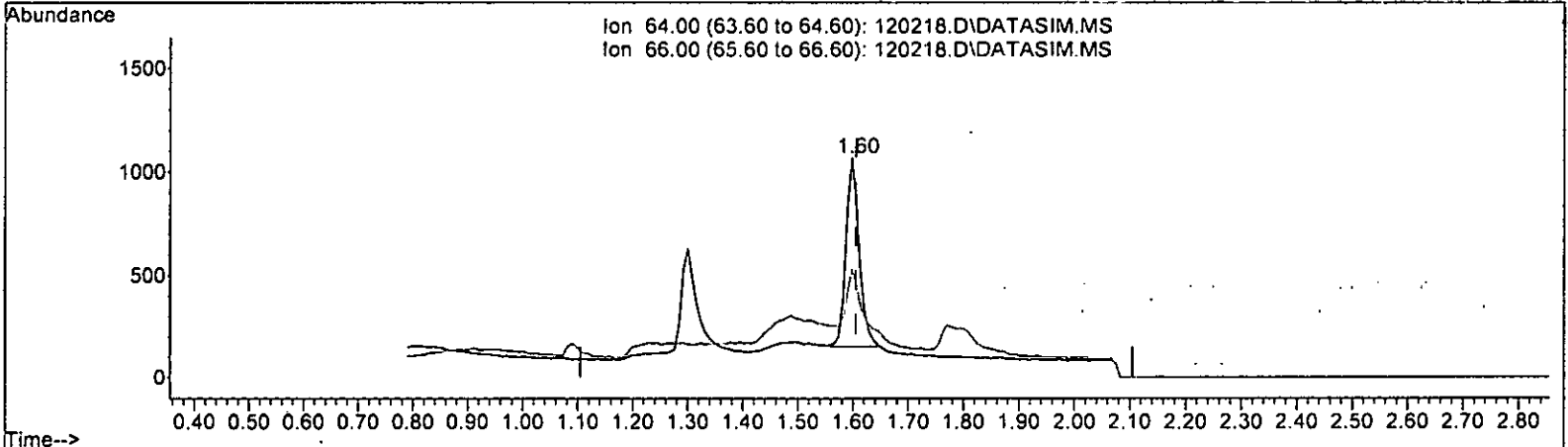
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	28.76
0.00	0.00	0.00
0.00	0.00	0.00

M 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

m 12.5

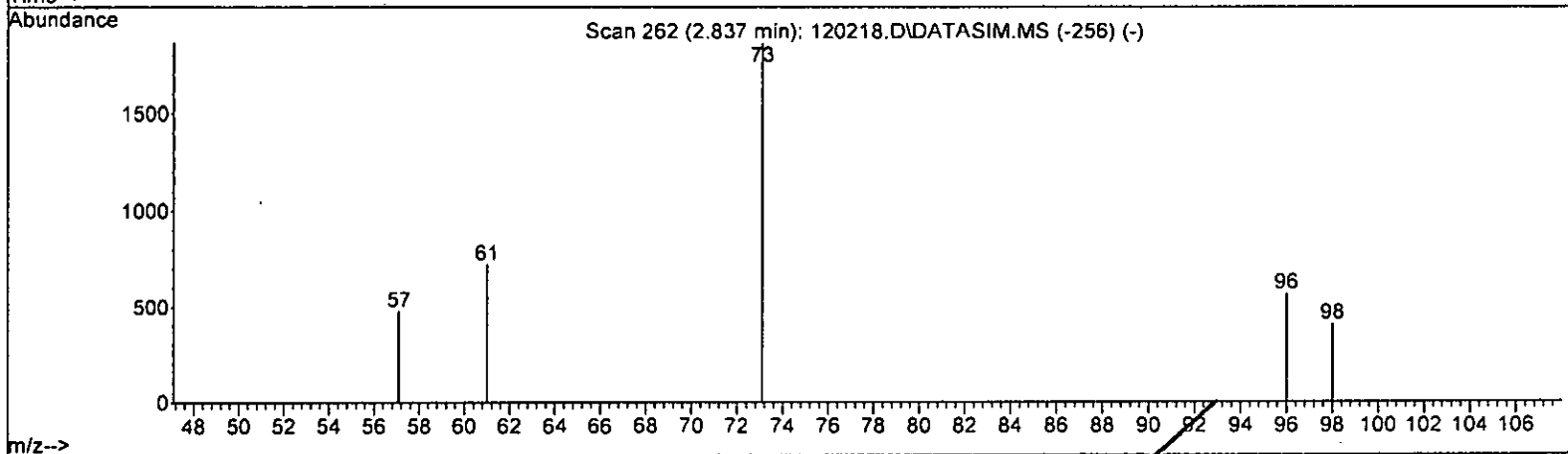
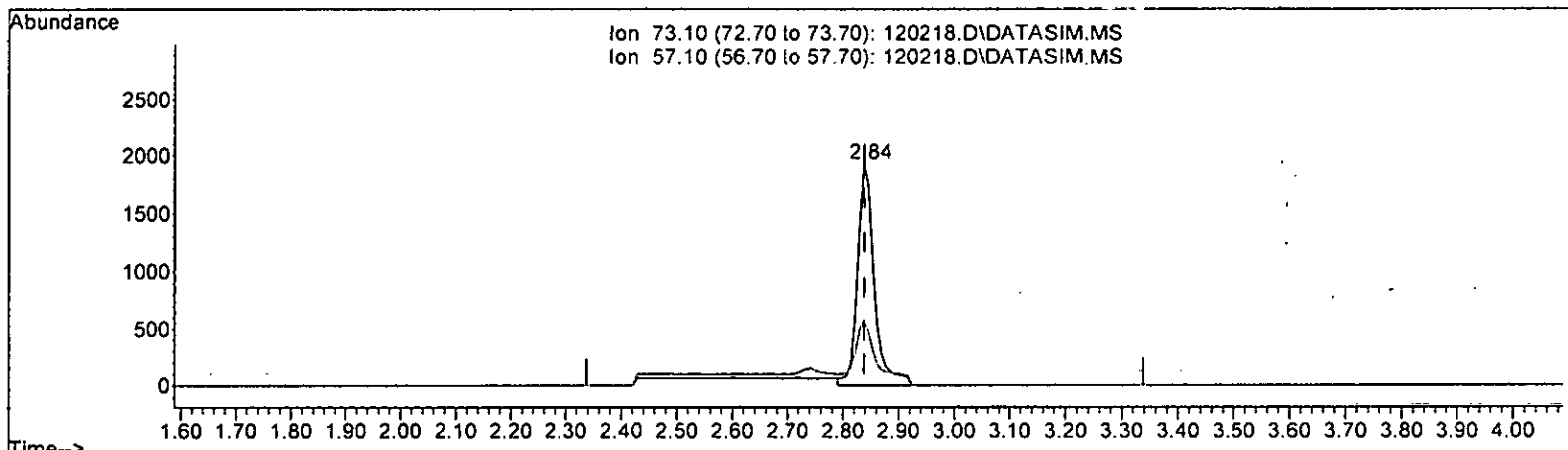
(8) Chloroethane (TMP)			
1.597min (-0.008) 0.960 ppb m			
response	1531		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	41.10	49.25	
0.00	0.00	0.00	
0.00	0.00	0.00	



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 1.201 ppb

response 3999

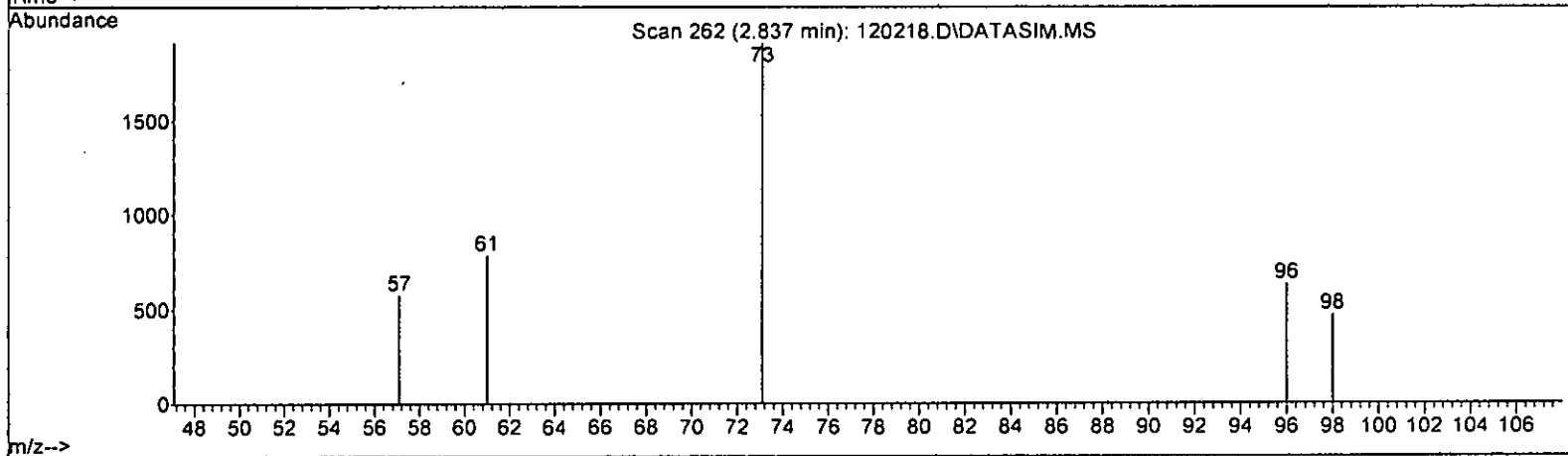
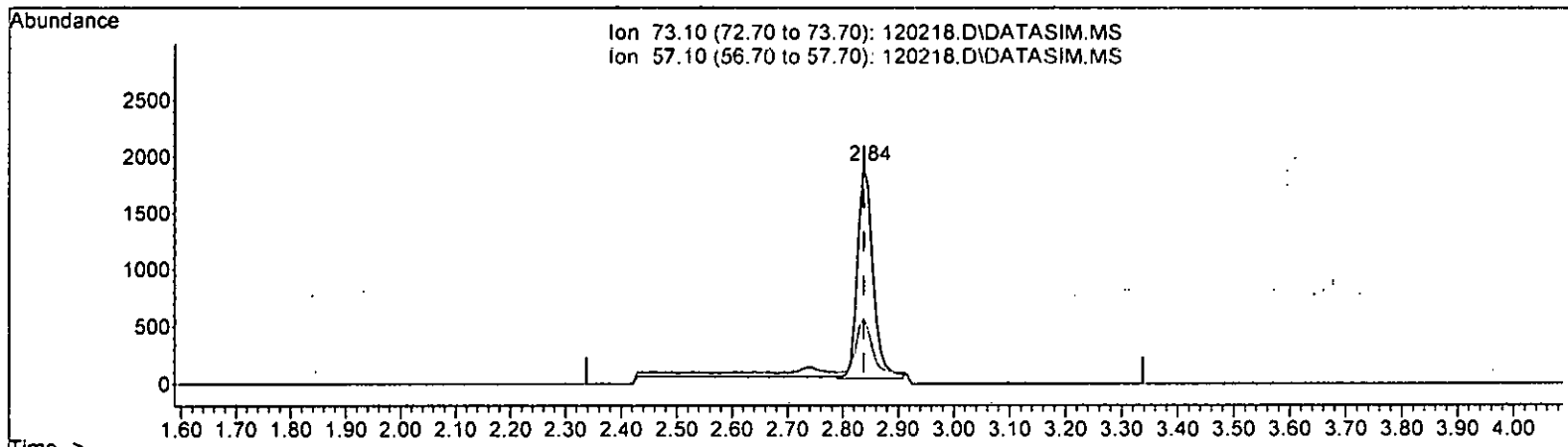
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	29.89
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 1.086 ppb m

response 3623

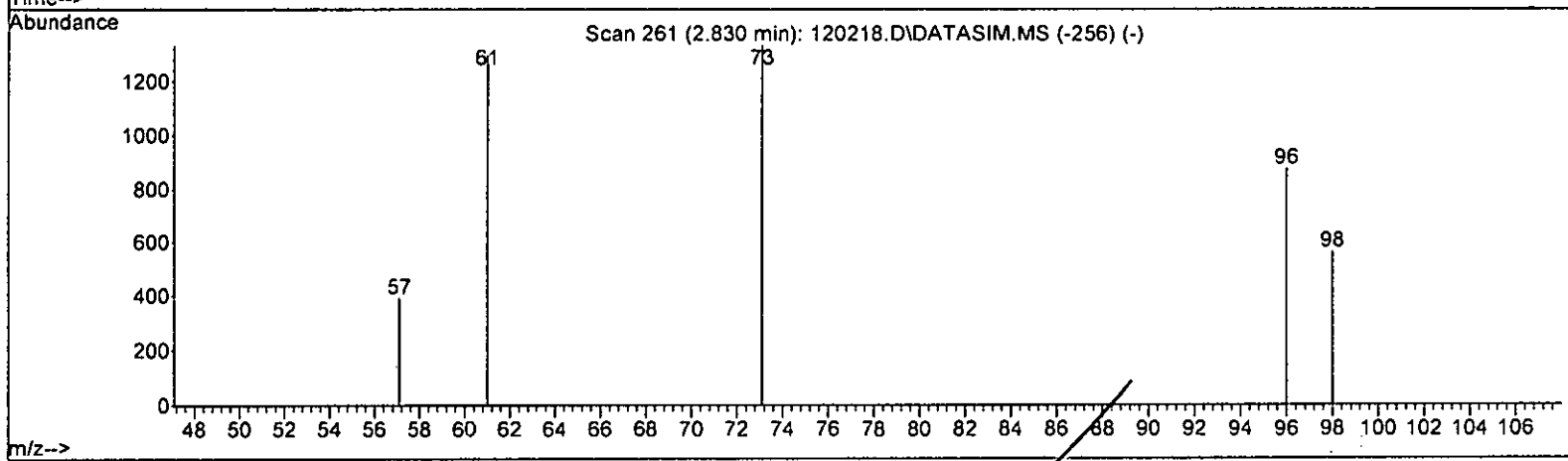
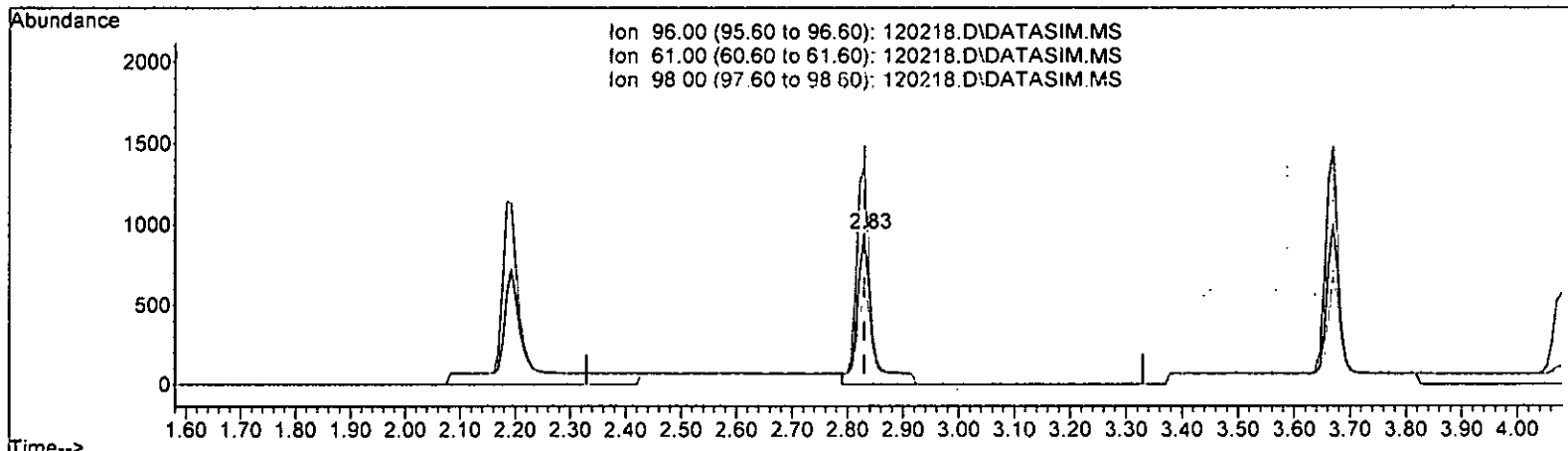
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	29.89
0.00	0.00	0.00
0.00	0.00	0.00

*m* 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 1.460 ppb

response 1767

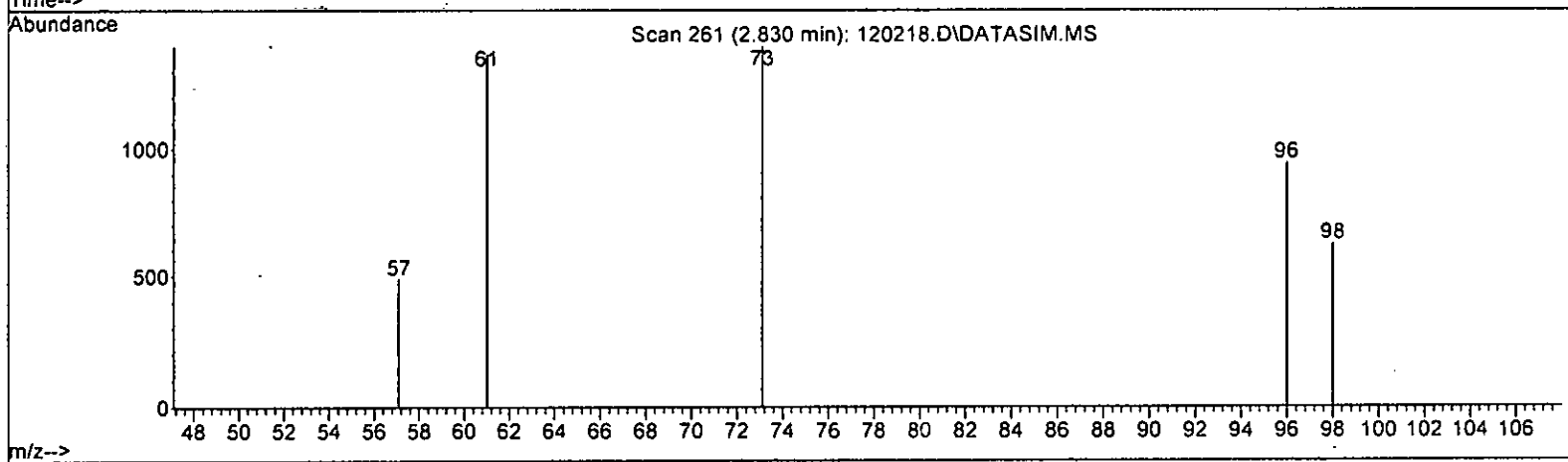
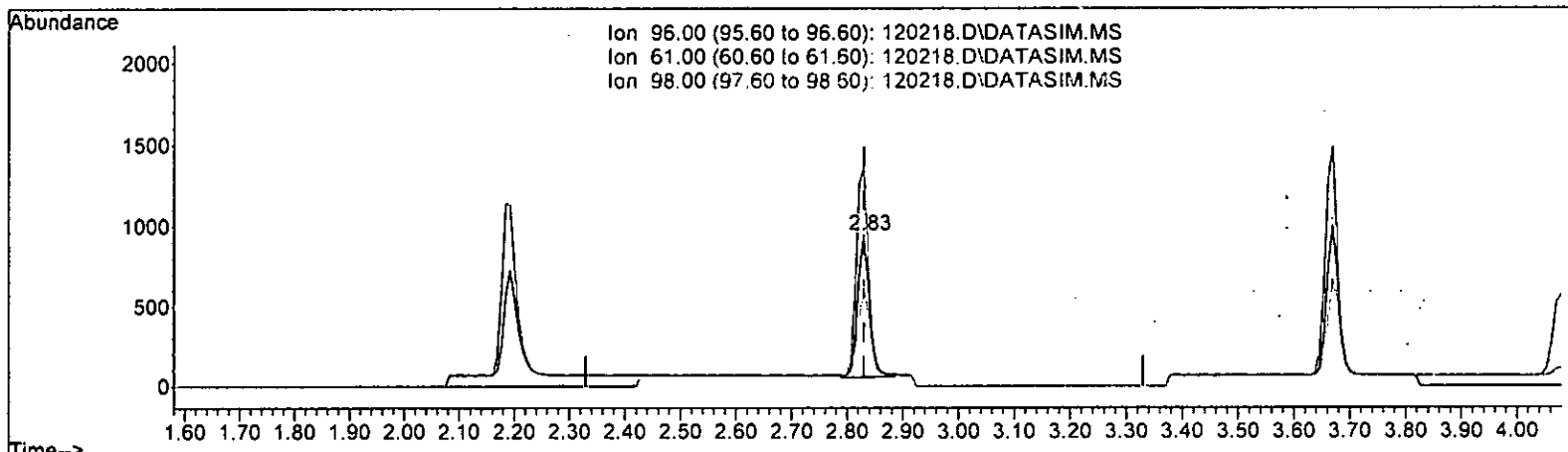
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	144.43
98.00	68.00	66.38
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

*LM 12.5*

(17) trans-1,2-Dichloroethene (TMP)  
 2.830min (-0.000) 1.074 ppb m  
 response 1311

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	144.43
98.00	68.00	66.38
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.065	-0.6	100	0.00
4 TMP Dichlorodifluoromethane	1.000	1.004	-0.4	100	0.00
5 TMP Chloromethane	1.000	1.046	-4.6	82	0.00
6 TMP Vinyl chloride	1.000	1.023	-2.3	101	0.00
7 TMP Bromomethane	-1.000	-0.042	0.0	0	0.00
8 TMP Chloroethane	1.000	0.960	4.0	100	0.00
9 TMP Trichlorofluoromethane	1.000	1.002	-0.2	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	5.000	5.896	-17.9	100	0.00
12 TMP 1,1-Dichloroethene	1.000	1.014	-1.4	100	0.00
13 TMP Hexane	1.000	0.933	6.7	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	5.000	5.432	-8.6	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	1.000	1.086	-8.6	102	0.00
17 TMP trans-1,2-Dichloroethene	1.000	1.074	-7.4	101	0.00
18 TMP Diisopropyl ether (DIPE)	1.000	1.055	-5.5	100	0.00
19 TMP 1,1-Dichloroethane	1.000	1.051	-5.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	1.000	0.999	0.1	100	0.00
21 TMP 2,2-Dichloropropane	1.000	1.013	-1.3	100	0.00
22 TMP cis-1,2-Dichloroethene	1.000	1.038	-3.8	100	0.00
23 TMP Chloroform	1.000	1.039	-3.9	100	0.00
24 TMP 2-Butanone (MEK)	5.000	4.105	17.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	1.000	1.086	-8.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	1.000	1.040	-4.0	100	0.00
27 TMP 1,1,1-Trichloroethane	1.000	1.024	-2.4	100	0.00
28 TMP 1,1-Dichloropropene	1.000	1.039	-3.9	100	0.00
29 TMP Carbon tetrachloride	1.000	1.037	-3.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.581	-5.8	100	0.00
31 TMP Benzene	1.000	1.028	-2.8	100	0.00
32 TMP Trichloroethene	1.000	1.030	-3.0	100	0.00
33 TMP 1,2-Dichloropropane	1.000	1.076	-7.6	100	0.00
34 TMP Bromodichloromethane	1.000	1.027	-2.7	100	0.00
35 S Toluene-d8	10.000	9.910	0.9	100	0.00
36 TMP Dibromomethane	1.000	0.952	4.8	100	0.00
37 TMP 4-Methyl-2-pentanone	5.000	5.544	-10.9	100	0.00
38 TMP cis-1,3-Dichloropropene	1.000	0.993	0.7	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	1.000	1.047	-4.7	100	0.00
41 TMP trans-1,3-Dichloropropene	1.000	0.953	4.7	100	0.00
42 TMP 1,1,2-Trichloroethane	1.000	1.029	-2.9	100	0.00
43 TMP 2-Hexanone	5.000	5.401	-8.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	1.000	1.039	-3.9	100	0.00
45 TMP Tetrachloroethene	1.000	1.032	-3.2	100	0.00
46 TMP Dibromochloromethane	1.000	1.004	-0.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	1.000	1.023	-2.3	100	0.00
48 TMP Chlorobenzene	1.000	0.989	1.1	100	0.00
49 TMP Ethylbenzene	1.000	1.086	-8.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	1.000	1.059	-5.9	100	0.00
51 TMP m,p-Xylene	2.000	2.132	-6.6	100	0.00
52 TMP o-Xylene	1.000	1.062	-6.2	100	0.00
53 TMP Styrene	1.000	1.081	-8.1	100	0.00
54 TMP Isopropylbenzene	1.000	1.063	-6.3	100	0.00
55 TMP Bromoform	1.000	0.928	7.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.092	-0.9	100	0.00
58 TMP n-Propylbenzene	1.000	1.051	-5.1	100	0.00
59 TMP Bromobenzene	1.000	1.038	-3.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.000	1.031	-3.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	1.000	1.053	-5.3	100	0.00
62 TMP 1,2,3-Trichloropropane	1.000	1.028	-2.8	100	0.00
63 TMP 2-Chlorotoluene	1.000	1.089	-8.9	100	0.00
64 TMP 4-Chlorotoluene	1.000	1.094	-9.4	100	0.00
65 TMP tert-Butylbenzene	1.000	1.041	-4.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.000	1.043	-4.3	100	0.00
67 TMP sec-Butylbenzene	1.000	1.018	-1.8	100	0.00
68 TMP p-Isopropyltoluene	1.000	1.060	-6.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.000	1.033	-3.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.000	1.052	-5.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.000	1.070	-7.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	1.000	0.989	1.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	1.000	1.093	-9.3	100	0.00
74 TMP Hexachlorobutadiene	1.000	1.006	-0.6	100	0.00
75 TMP Naphthalene	1.000	0.933	6.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	1.000	1.053	-5.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM511\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.265	-0.4	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	1.096	-15.2	82	0.00
6 TMP Vinyl chloride	0.862	0.785	8.9	101	0.00
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	0.00
8 TMP Chloroethane	0.341	0.345	-1.2	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.901	-0.2	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.037	-19.4	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.255	5.9	100	0.00
13 TMP Hexane	0.469	0.523	-11.5	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.050	-8.7	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.816	-0.5	102	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.295	6.1	101	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	1.005	-5.5	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.531	2.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.307	0.0	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.361	-4.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.310	5.8	100	0.00
23 TMP Chloroform	0.477	0.495	-3.8	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.185	-6.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.802	-8.5	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.424	11.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.480	2.8	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.383	-4.1	100	0.00
29 TMP Carbon tetrachloride	0.396	0.411	-3.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.063	-5.0	100	0.00
31 TMP Benzene	1.103	1.061	3.8	100	0.00
32 TMP Trichloroethene	0.368	0.337	8.4	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.339	-7.6	100	0.00
34 TMP Bromodichloromethane	0.375	0.385	-2.7	100	0.00
35 S Toluene-d8	0.975	0.967	0.8	100	0.00
36 TMP Dibromomethane	0.181	0.173	4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.060	-11.1	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.440	0.7	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.924	6.3	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.484	4.7	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.291	-2.1	100	0.00
43 TMP 2-Hexanone	0.312	0.337	-8.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.503	-3.9	100	0.00
45 TMP Tetrachloroethene	0.420	0.357	15.0	100	0.00
46 TMP Dibromochloromethane	0.366	0.368	-0.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.340	10.3	100	0.00
48 TMP Chlorobenzene	0.957	0.947	1.0	100	0.00
49 TMP Ethylbenzene	1.885	1.787	5.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.379	-5.9	100	0.00
51 TMP m,p-Xylene	0.705	0.669	5.1	100	0.00
52 TMP o-Xylene	0.683	0.653	4.4	100	0.00
53 TMP Styrene	1.004	1.085	-8.1	100	0.00
54 TMP Isopropylbenzene	1.606	1.708	-6.4	100	0.00
55 TMP Bromoform	0.269	0.250	7.1	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.872	-0.9	100	0.00
58 TMP n-Propylbenzene	3.386	3.558	-5.1	100	0.00
59 TMP Bromobenzene	0.790	0.820	-3.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.560	-3.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.772	-5.3	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.616	-2.8	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.238	-9.0	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.576	-9.4	100	0.00
65 TMP tert-Butylbenzene	2.194	2.285	-4.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.685	-4.3	100	0.00
67 TMP sec-Butylbenzene	3.160	3.217	-1.8	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.870	-6.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.518	-3.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.576	-5.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.457	-7.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.156	1.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	1.069	-9.3	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.519	-0.6	100	0.00
75 TMP Naphthalene	2.401	2.241	6.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.932	-5.3	100	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	44408	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35243	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19491	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11780	10.065	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.70%	
30) 1,2-Dichloroethane-d4	4.36	102	2801	10.581	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	105.80%	
35) Toluene-d8	5.98	98	42927	9.910	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	99.10%	
57) 4-Bromofluorobenzene	8.38	95	16996	10.092	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	100.90%	
Target Compounds						
						Qvalue
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.09	85	3172	1.004	ppb	77
5) Chloromethane	1.22	50	4865	1.046	ppb	94
6] Vinyl chloride	1.30	62	3487m	1.023	ppb	
7) Bromomethane	1.53	94	4262	Below Cal		85
8] Chloroethane	1.60	64	1531m	0.960	ppb	
9) Trichlorofluoromethane	1.77	101	4003	1.002	ppb	# 8
10) 2-Propanol	2.39	45	339	No Calib		
11) Acetone	2.27	58	817	5.896	ppb	# 70
12] 1,1-Dichloroethene	2.19	96	1132	1.014	ppb	92
13) Hexane	3.05	57	2323	0.933	ppb	93
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	2.75	59	1116	5.432	ppb	76
16] Methyl t-butyl ether (...)	2.84	73	3623m	1.086	ppb	
17] trans-1,2-Dichloroethene	2.83	96	1311m	1.074	ppb	
18) Diisopropyl ether (DIPE)	3.24	45	4461	1.055	ppb	99
19] 1,1-Dichloroethane	3.18	63	2360	1.051	ppb	98
20) Ethyl t-butyl ether (E...)	3.55	87	1363	0.999	ppb	# 85
21) 2,2-Dichloropropane	3.67	77	1605	1.013	ppb	95
22] cis-1,2-Dichloroethene	3.67	96	1375	1.038	ppb	96
23) Chloroform	3.94	83	2199	1.039	ppb	91
24) 2-Butanone (MEK)	3.71	43	4107	4.105	ppb	98
25) t-Amyl methyl ether (T...)	4.50	73	3561	1.086	ppb	96
26] 1,2-Dichloroethane (EDC)	4.41	62	1884	1.040	ppb	98
27] 1,1,1-Trichloroethane	4.08	97	2132	1.024	ppb	98
28) 1,1-Dichloropropene	4.22	75	1699	1.039	ppb	89
29) Carbon tetrachloride	4.21	117	1823	1.037	ppb	100
31] Benzene	4.39	78	4710	1.028	ppb	98
32] Trichloroethene	4.93	95	1496	1.030	ppb	96
33) 1,2-Dichloropropane	5.13	63	1504	1.076	ppb	# 100
34) Bromodichloromethane	5.37	83	1711	1.027	ppb	94
36) Dibromomethane	5.23	93	767	0.952	ppb	83

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

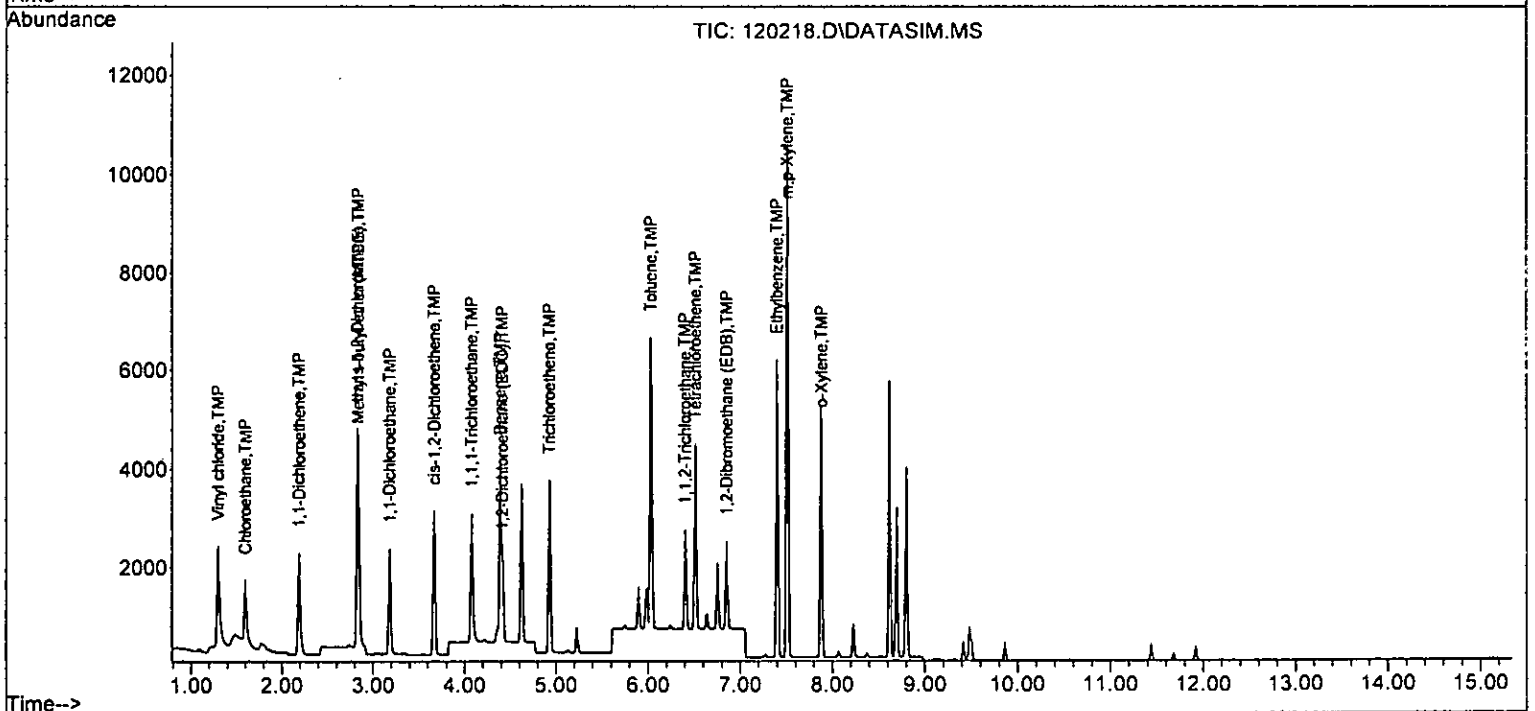
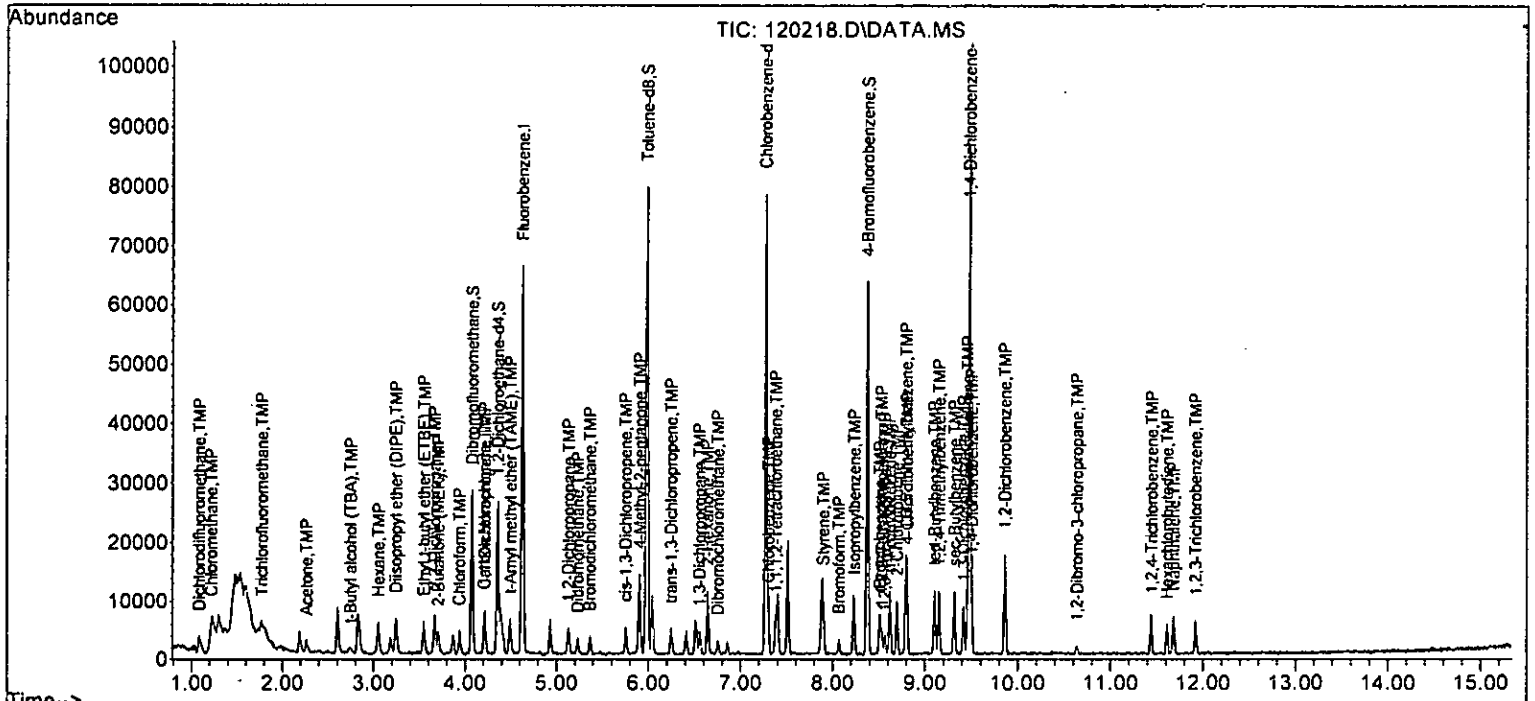
Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
37) 4-Methyl-2-pentanone	5.91	85	1333	5.544	ppb	#	79
38) cis-1,3-Dichloropropene	5.75	75	1953	0.993	ppb		89
40] Toluene	6.03	92	3258	1.047	ppb		99
41) trans-1,3-Dichloropropene	6.25	75	1705	0.953	ppb		82
42] 1,1,2-Trichloroethane	6.40	83	1027	1.029	ppb		99
43) 2-Hexanone	6.64	43	5931	5.401	ppb		92
44) 1,3-Dichloropropane	6.55	76	1773	1.039	ppb		93
45] Tetrachloroethene	6.51	164	1259	1.032	ppb		99
46) Dibromochloromethane	6.75	129	1296	1.004	ppb		83
47] 1,2-Dibromoethane (ED8)	6.85	107	1199	1.023	ppb		100
48) Chlorobenzene	7.30	112	3336	0.989	ppb		98
49] Ethylbenzene	7.40	91	6298	1.086	ppb		99
50) 1,1,1,2-Tetrachloroethane	7.38	131	1337	1.059	ppb		79
51] m,p-Xylene	7.51	106	4719	2.132	ppb		97
52] o-Xylene	7.88	106	2303	1.062	ppb		98
53) Styrene	7.90	104	3825	1.081	ppb		92
54) Isopropylbenzene	8.23	105	6020	1.063	ppb		84
55) Bromoform	8.07	173	880	0.928	ppb		91
58) n-Propylbenzene	8.62	91	6935	1.051	ppb		93
59) Bromobenzene	8.51	156	1598	1.038	ppb	#	67
60) 1,3,5-Trimethylbenzene	8.80	105	4989	1.031	ppb		98
61) 1,1,2,2-Tetrachloroethane	8.53	83	1505	1.053	ppb		84
62) 1,2,3-Trichloropropane	8.56	75	1200	1.028	ppb		89
63) 2-Chlorotoluene	8.70	91	4362	1.089	ppb		100
64) 4-Chlorotoluene	8.81	91	5021	1.094	ppb		97
65) tert-Butylbenzene	9.10	119	4453	1.041	ppb		93
66) 1,2,4-Trimethylbenzene	9.15	105	5234	1.043	ppb		99
67) sec-Butylbenzene	9.32	105	6270	1.018	ppb		87
68) p-Isopropyltoluene	9.46	119	5593	1.060	ppb		99
69) 1,3-Dichlorobenzene	9.42	146	2958	1.033	ppb		94
70) 1,4-Dichlorobenzene	9.50	146	3072	1.052	ppb		94
71) 1,2-Dichlorobenzene	9.86	146	2839	1.070	ppb		84
72) 1,2-Dibromo-3-chloropr...	10.64	75	305	0.989	ppb		81
73) 1,2,4-Trichlorobenzene	11.44	180	2084	1.093	ppb		86
74) Hexachlorobutadiene	11.61	225	1011	1.006	ppb		89
75) Naphthalene	11.68	128	4367	0.933	ppb		91
76) 1,2,3-Trichlorobenzene	11.92	180	1817	1.053	ppb	#	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

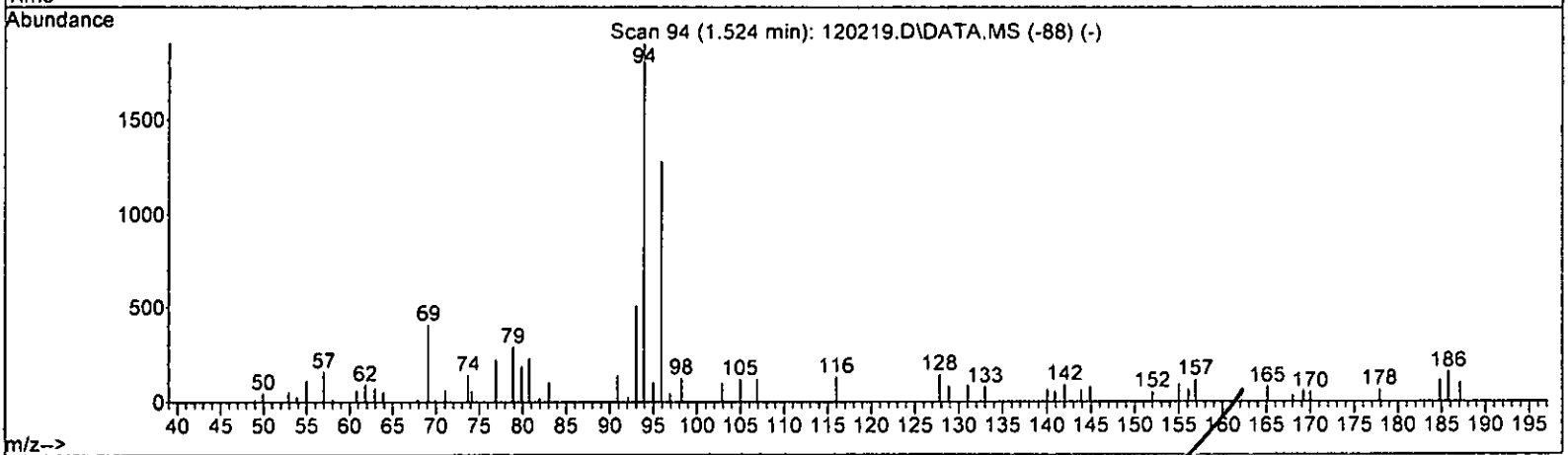
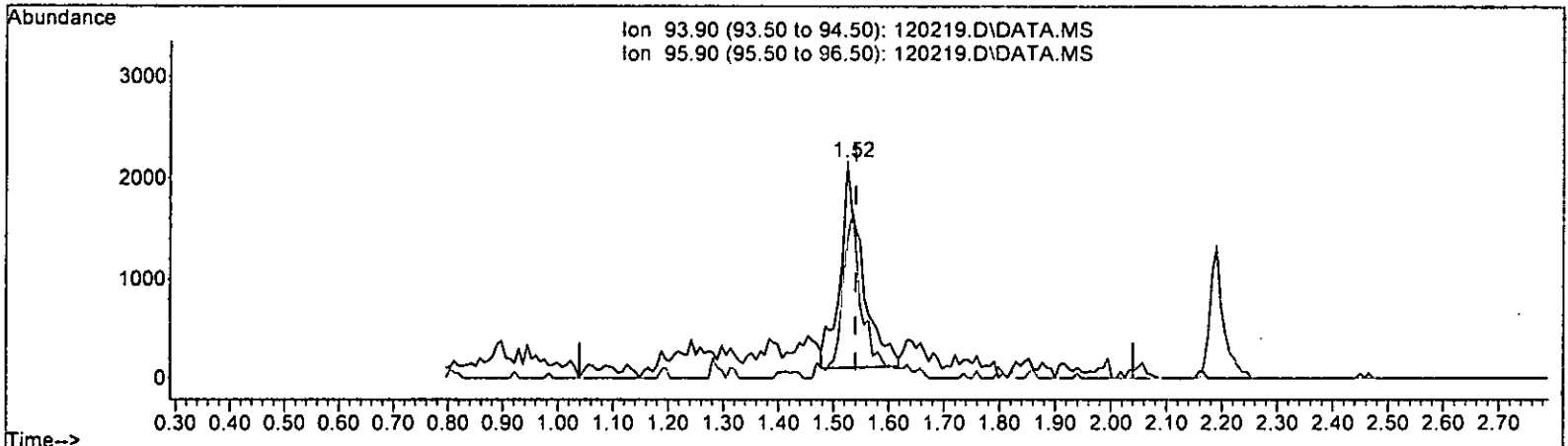
Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

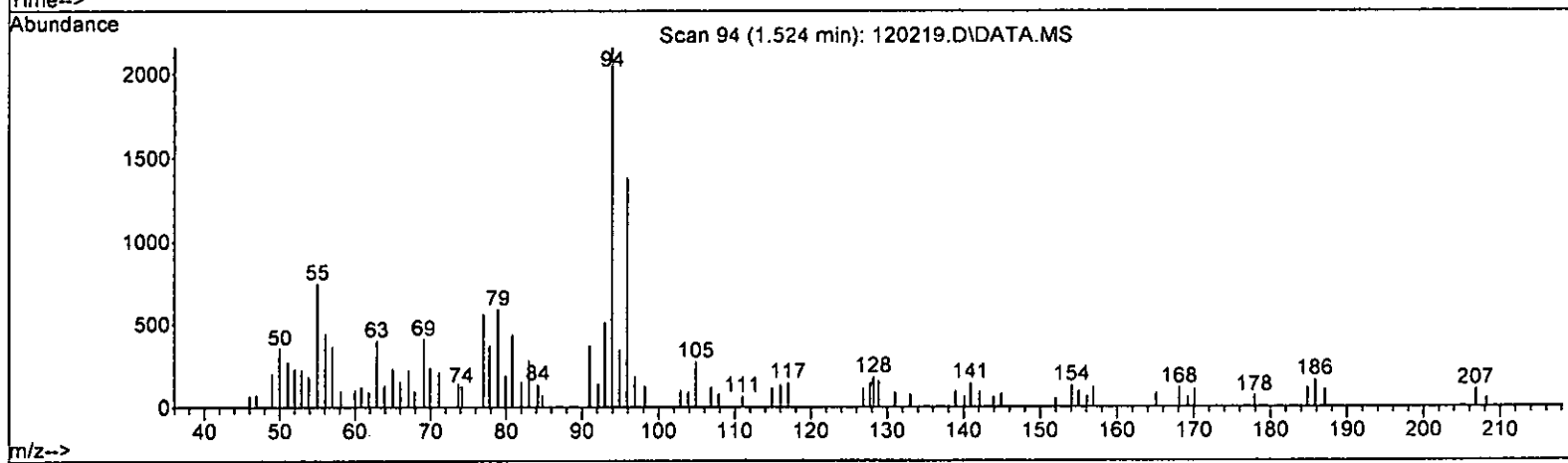
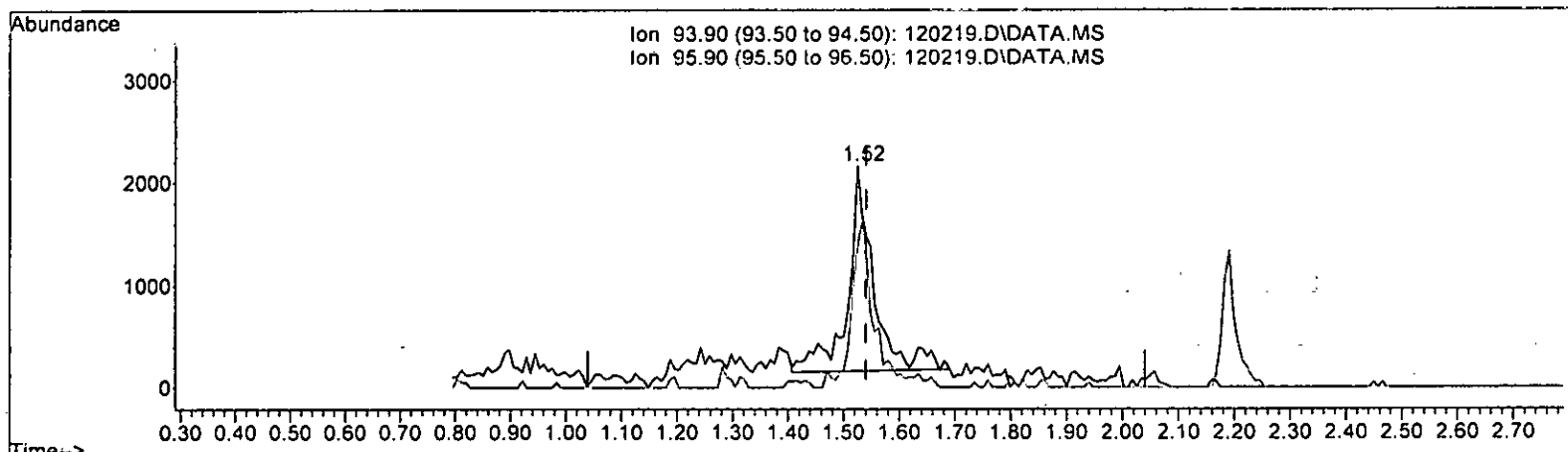
M 125

(7) Bromomethane (TMP)			
1.524min (-0.016) 0.829 ppb			
response		5738	
Ion	Exp%	Act%	
93.90	100.00	100.00	
95.90	63.90	65.06	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 120219.D\DATA.MS

(7) Bromomethane (TMP) *m 12.5*

1.524min (-0.016) 1.256 ppb m

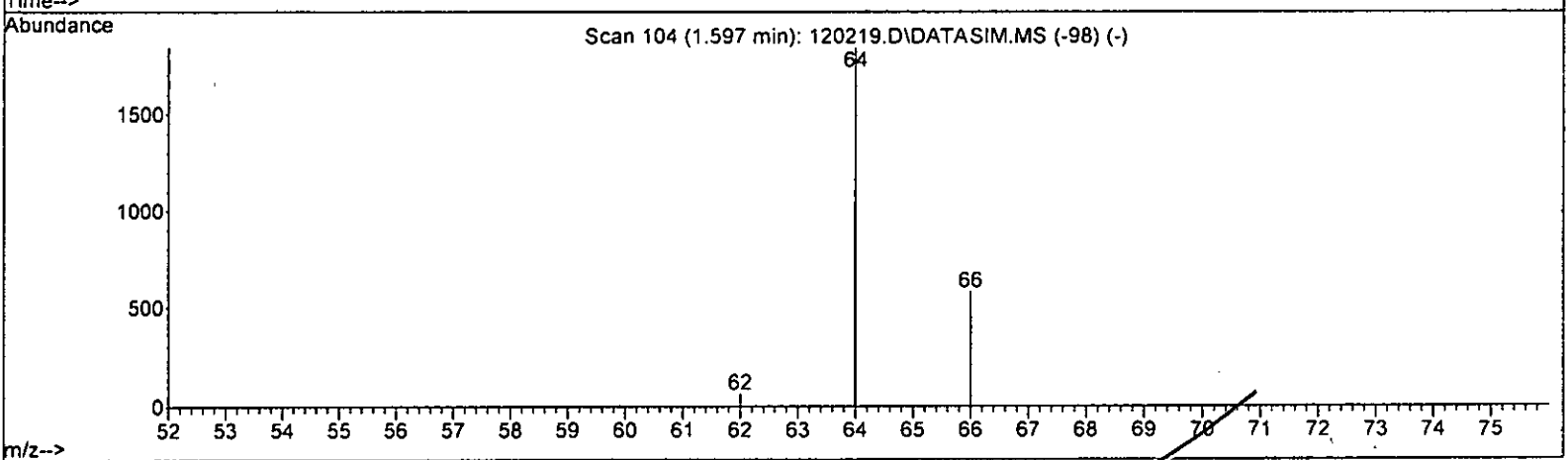
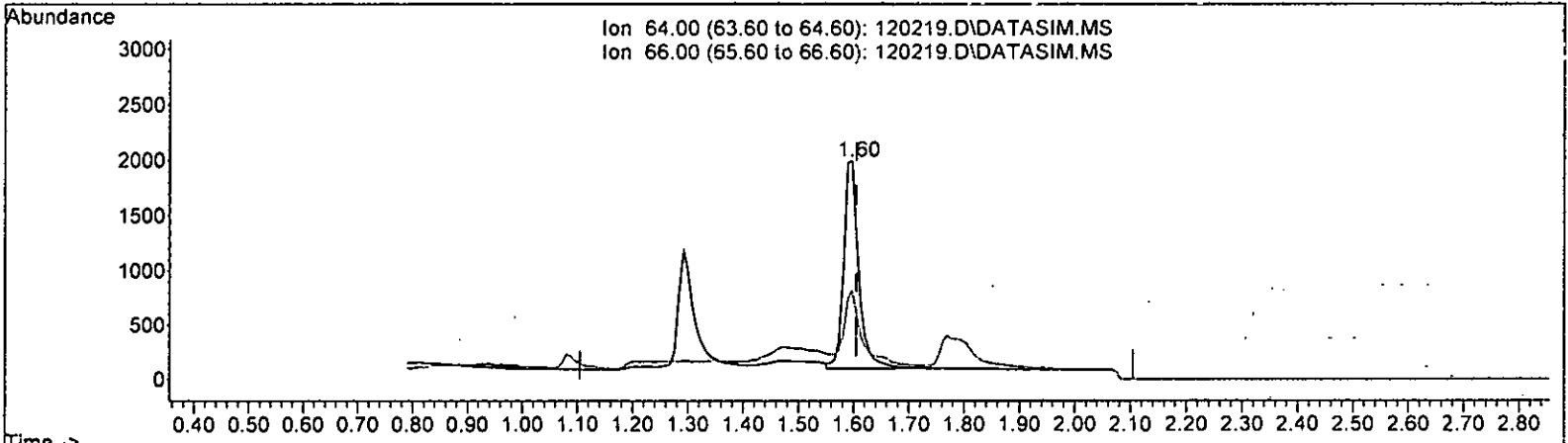
response 6453

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	63.90	63.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(8) Chloroethane (TMP)

1.597min (-0.008) 2.368 ppb

response 3611

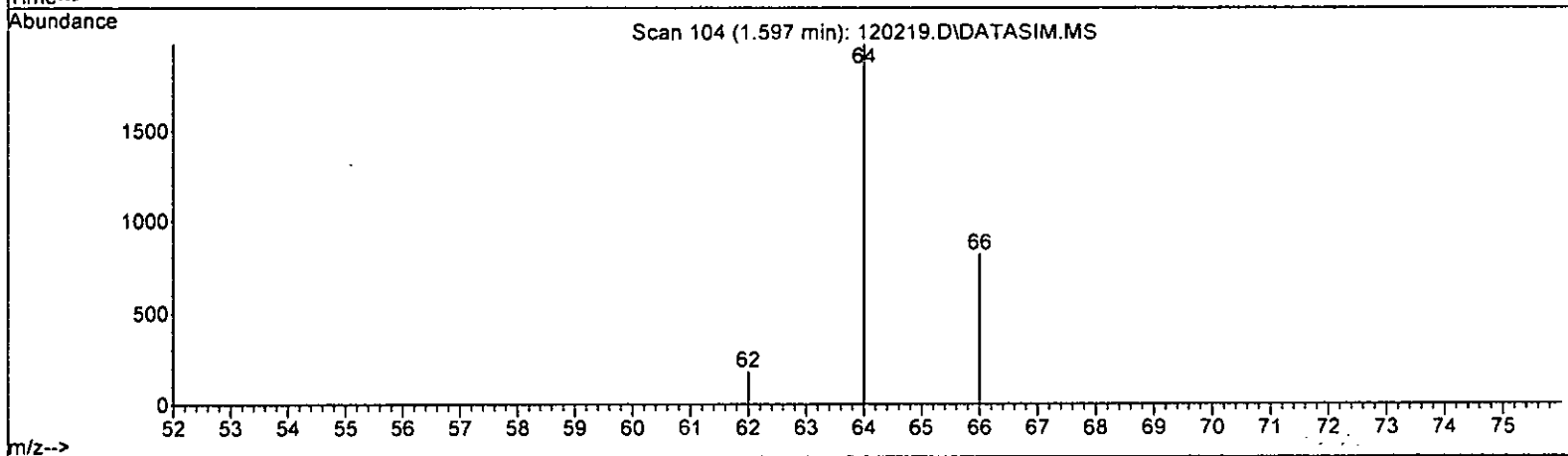
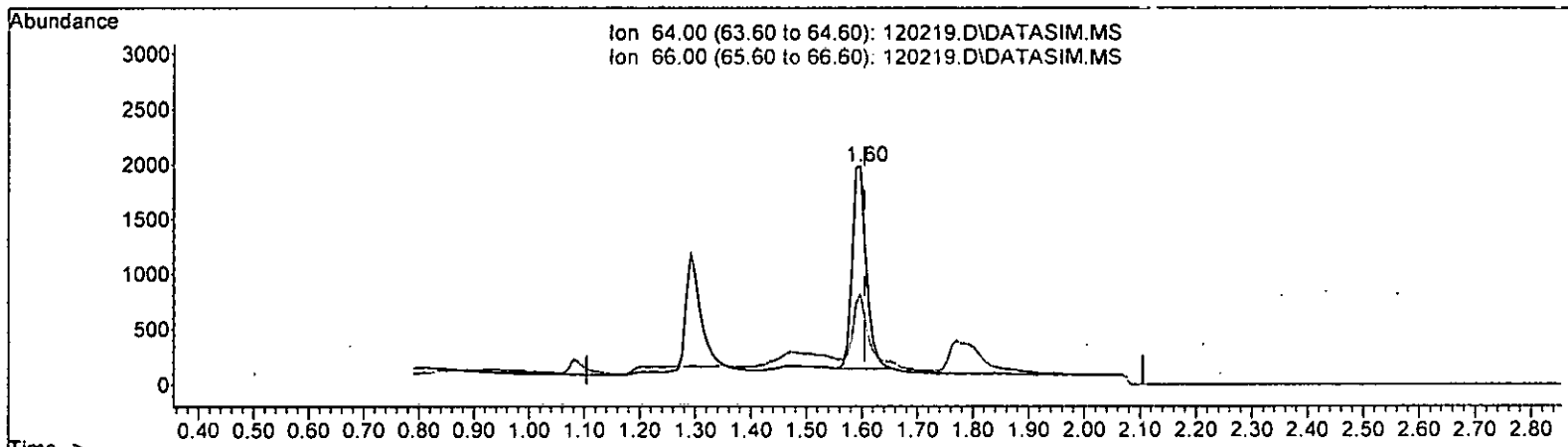
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	31.53
0.00	0.00	0.00
0.00	0.00	0.00

*VM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(8) Chloroethane (TMP)

1.597min (-0.008) 2.133 ppb m

response 3265

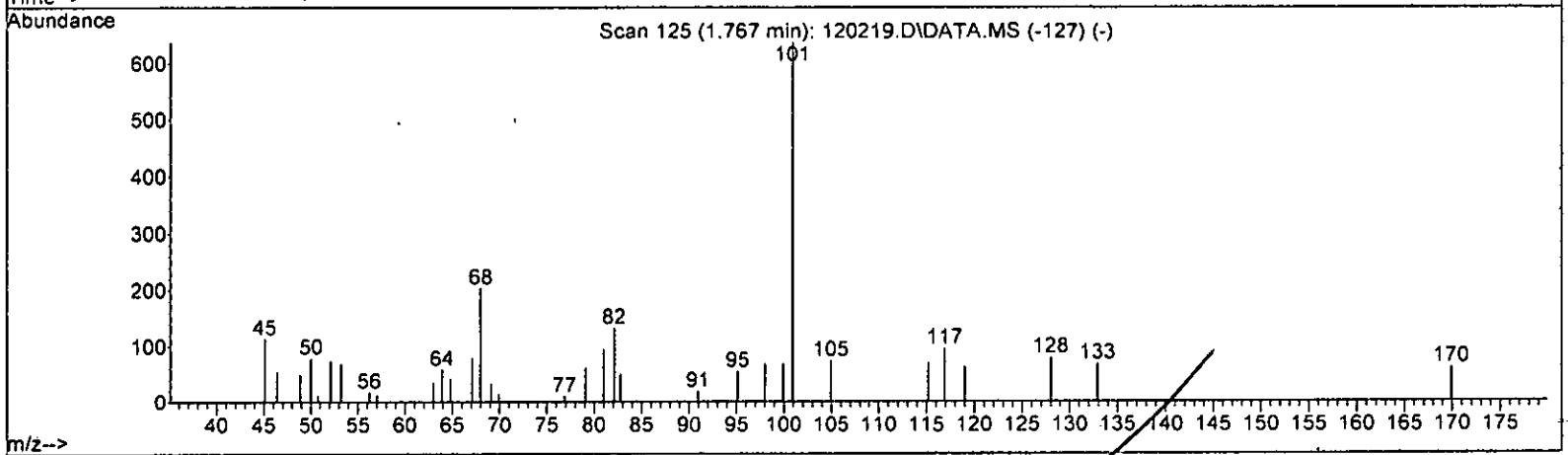
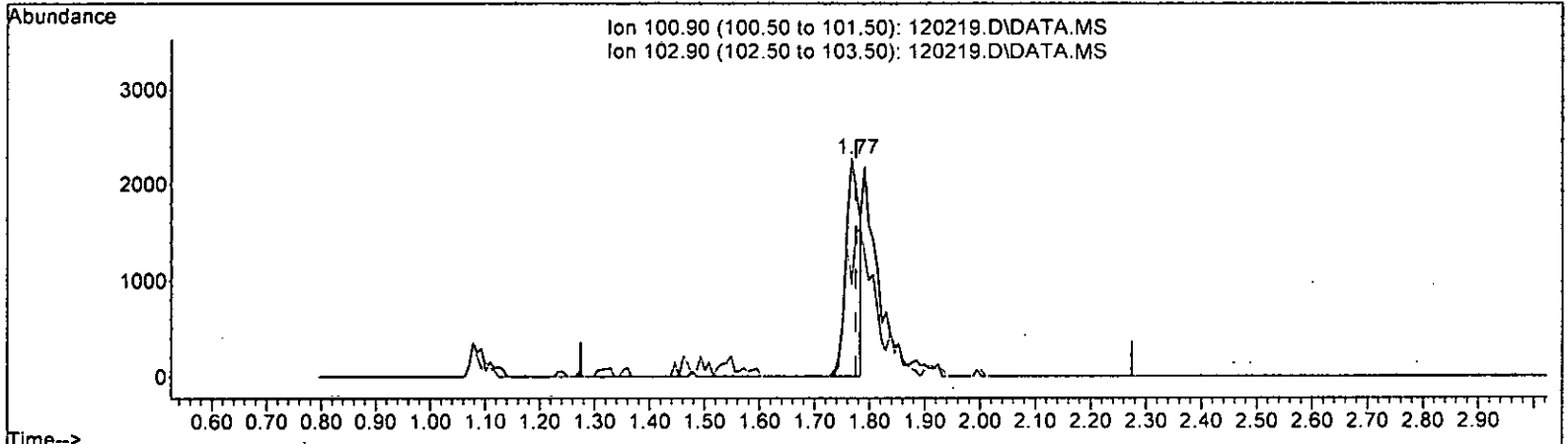
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	41.09
0.00	0.00	0.00
0.00	0.00	0.00

*m 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.767min (-0.008) 0.964 ppb

response 3864

Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	42.21
0.00	0.00	0.00
0.00	0.00	0.00

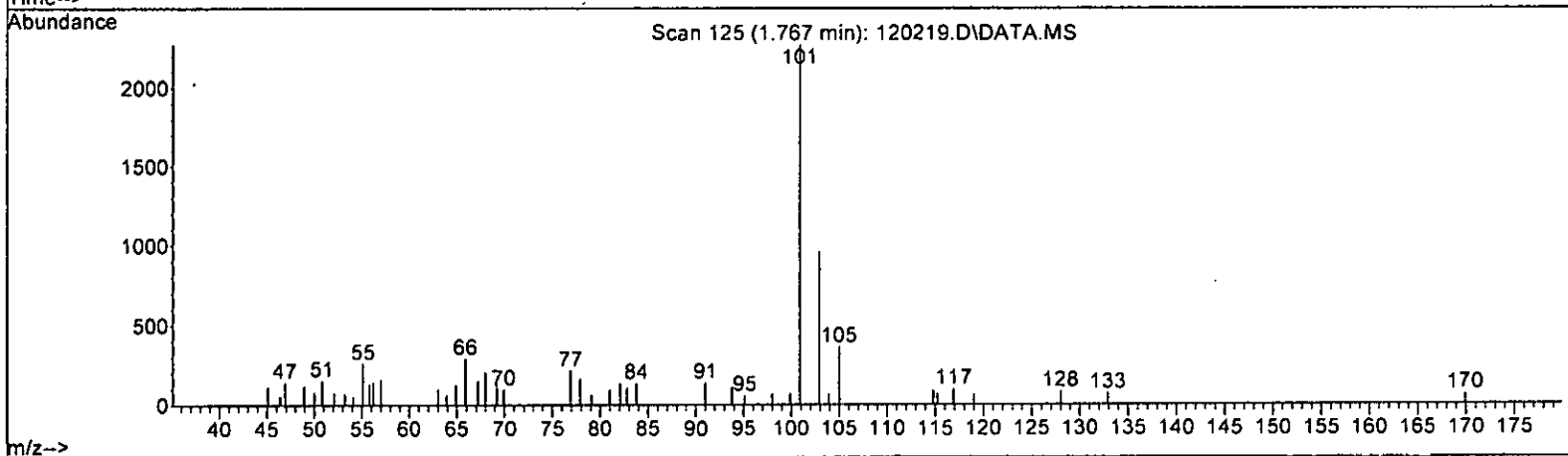
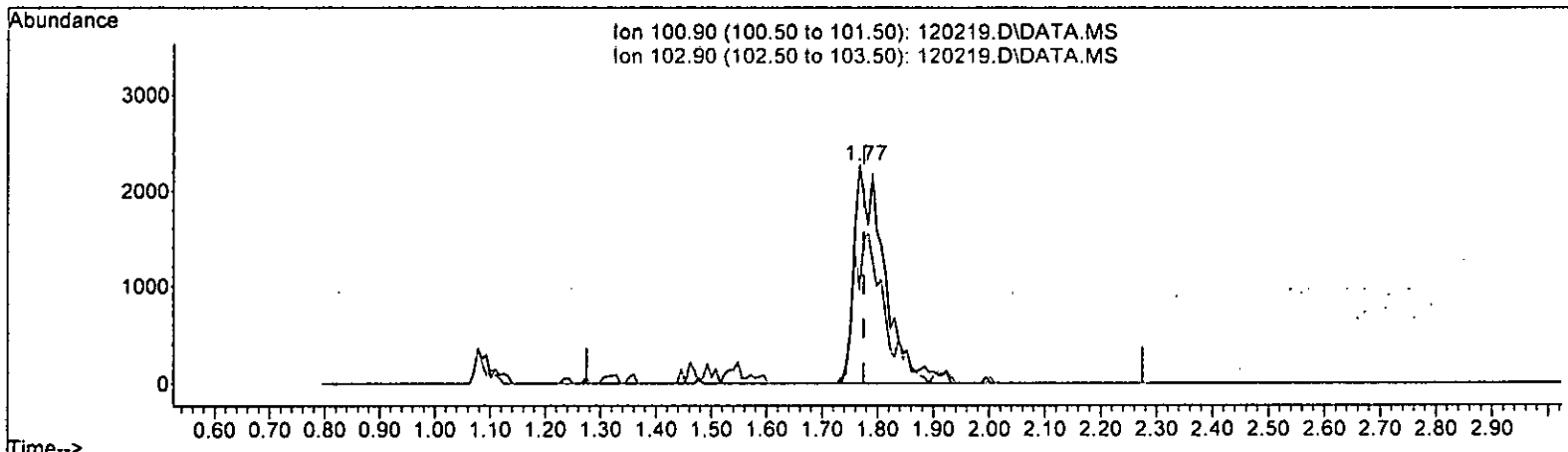
*LM 12.5*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS *M 12.5*

(9) Trichlorofluoromethane (TMP)

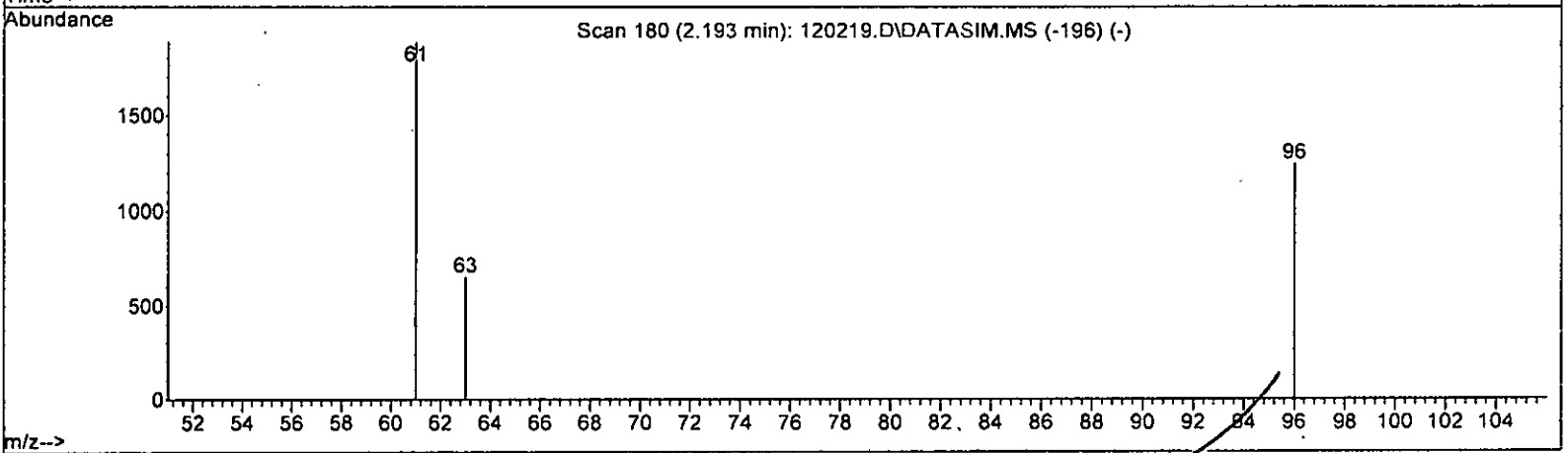
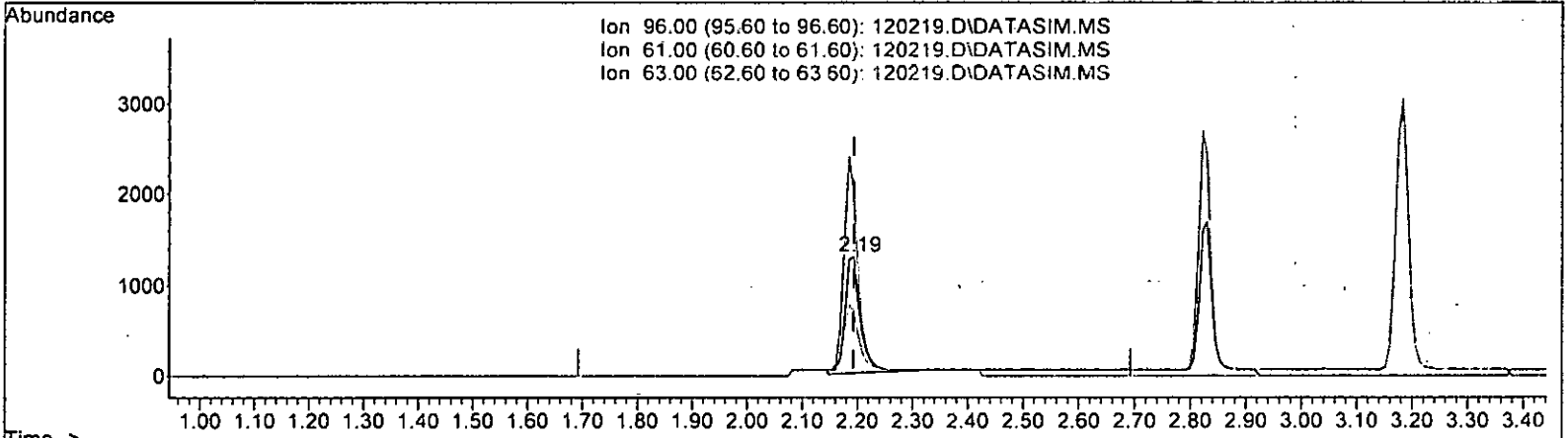
1.767min (-0.008) 2.096 ppb m

response	8407	
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	42.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 120219.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 2.233 ppb

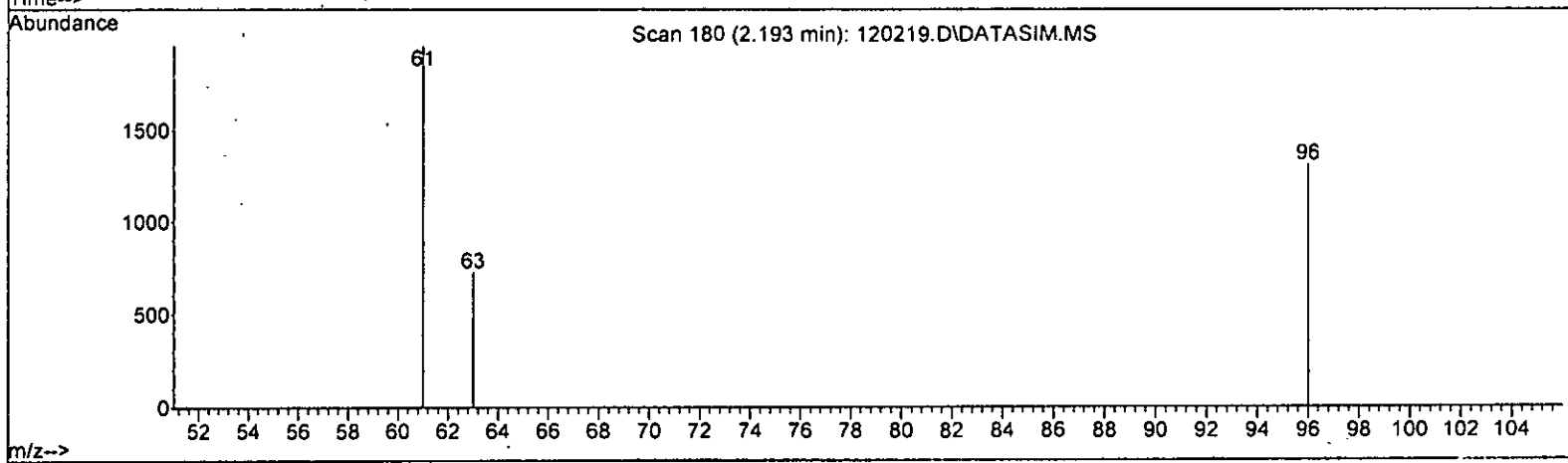
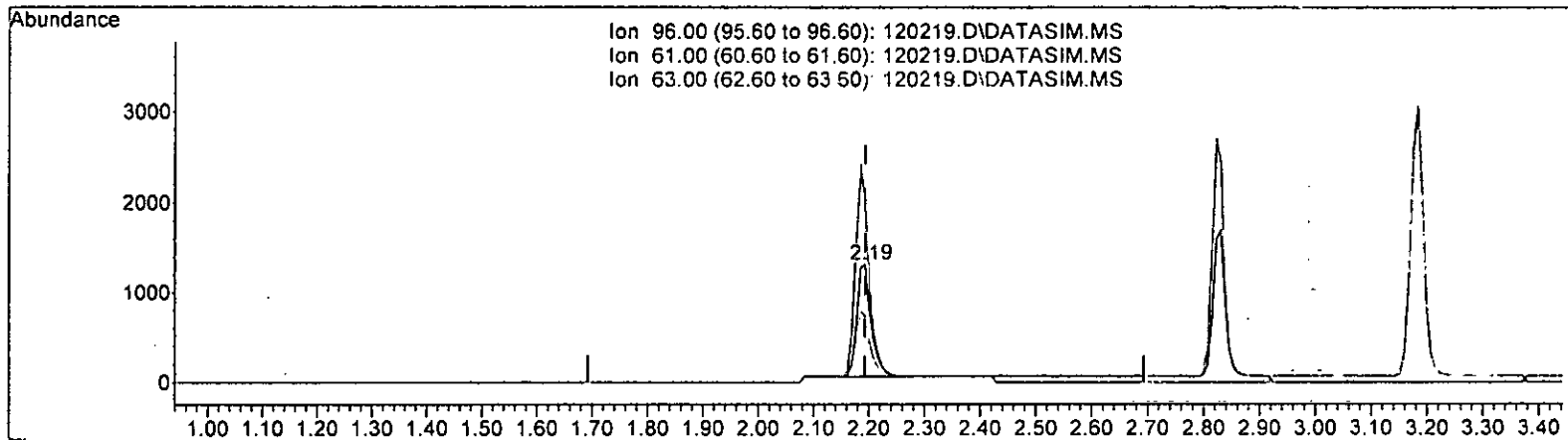
response	2480	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	151.41
63.00	55.30	52.37
0.00	0.00	0.00

*LM* 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)  
 2.193min (-0.000) 2.019 ppb m  
 response 2244

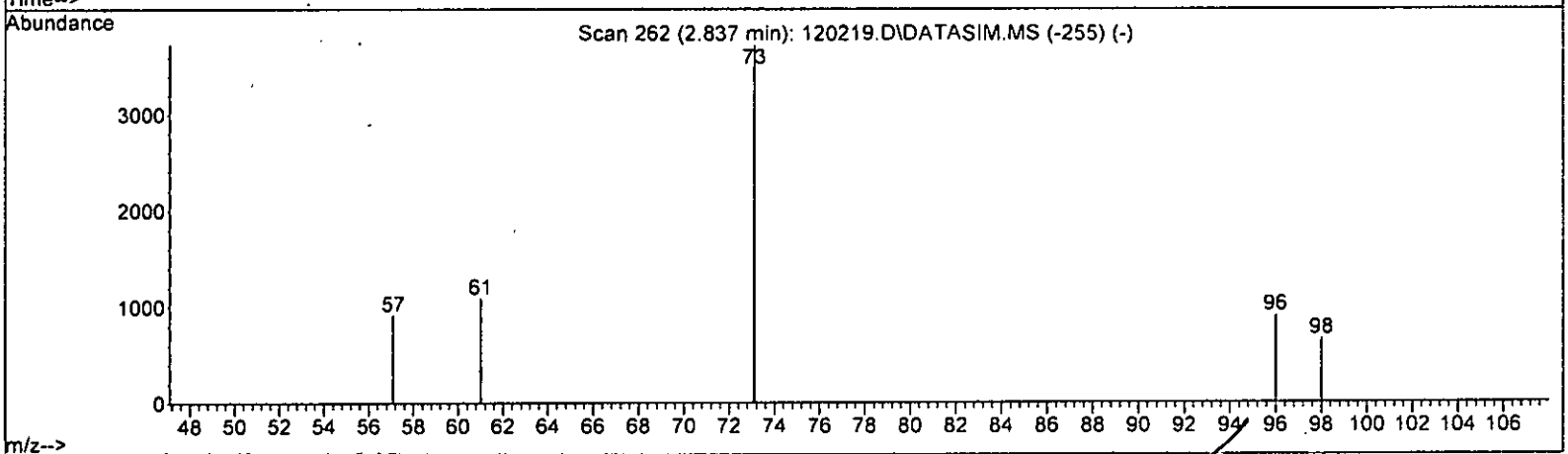
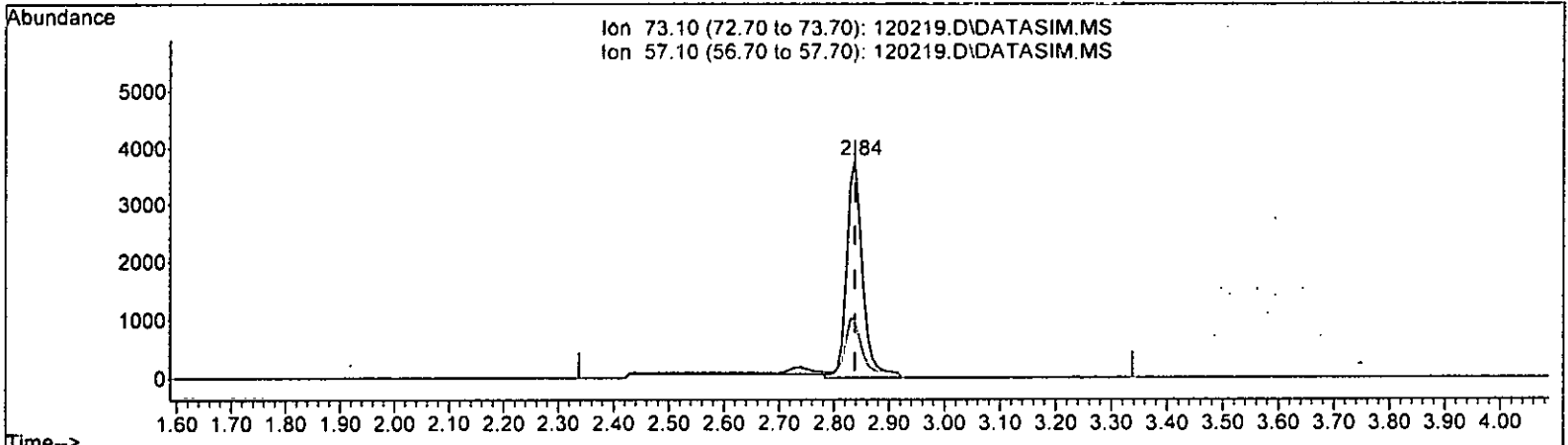
*M 12.5*

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	148.59
63.00	55.30	55.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 2.256 ppb

response 7494

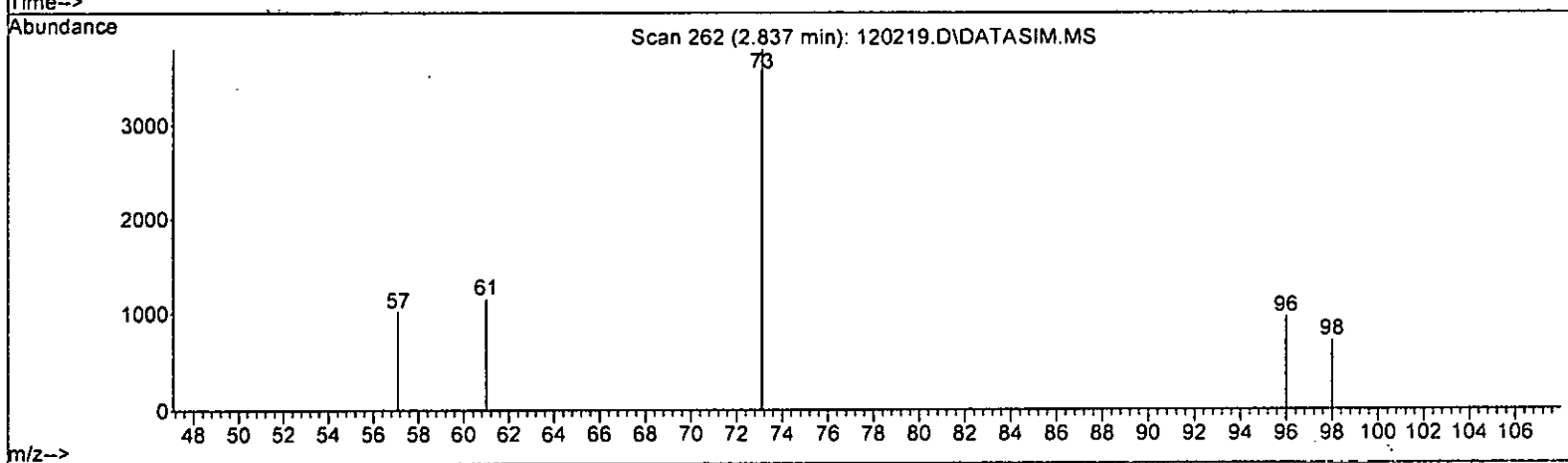
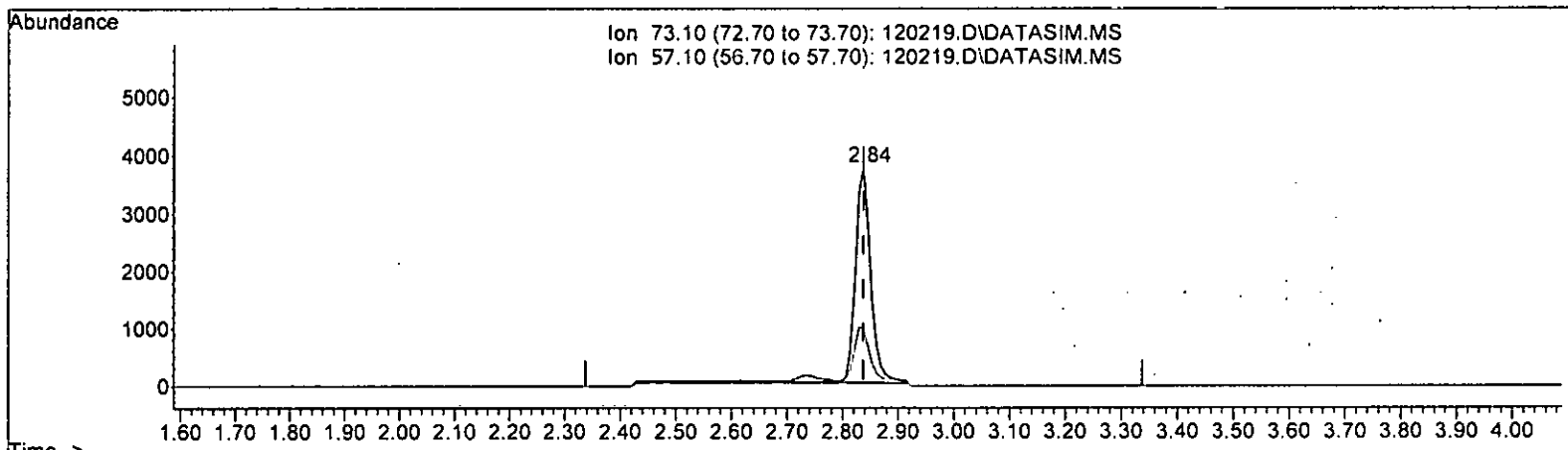
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	26.72
0.00	0.00	0.00
0.00	0.00	0.00

M 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 2.117 ppb m

response 7035

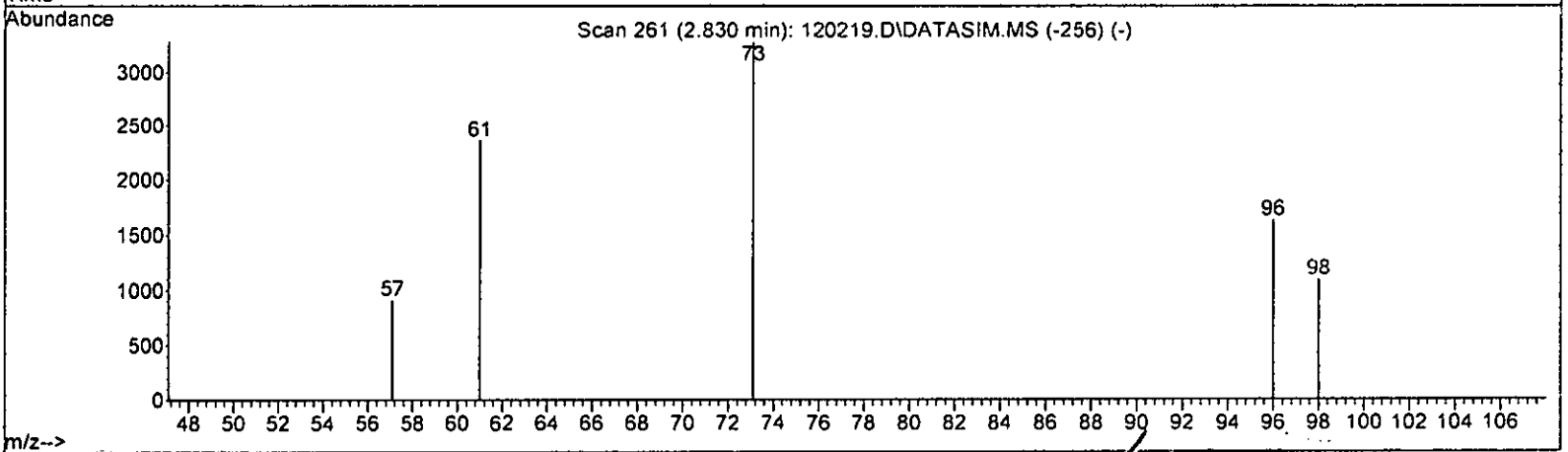
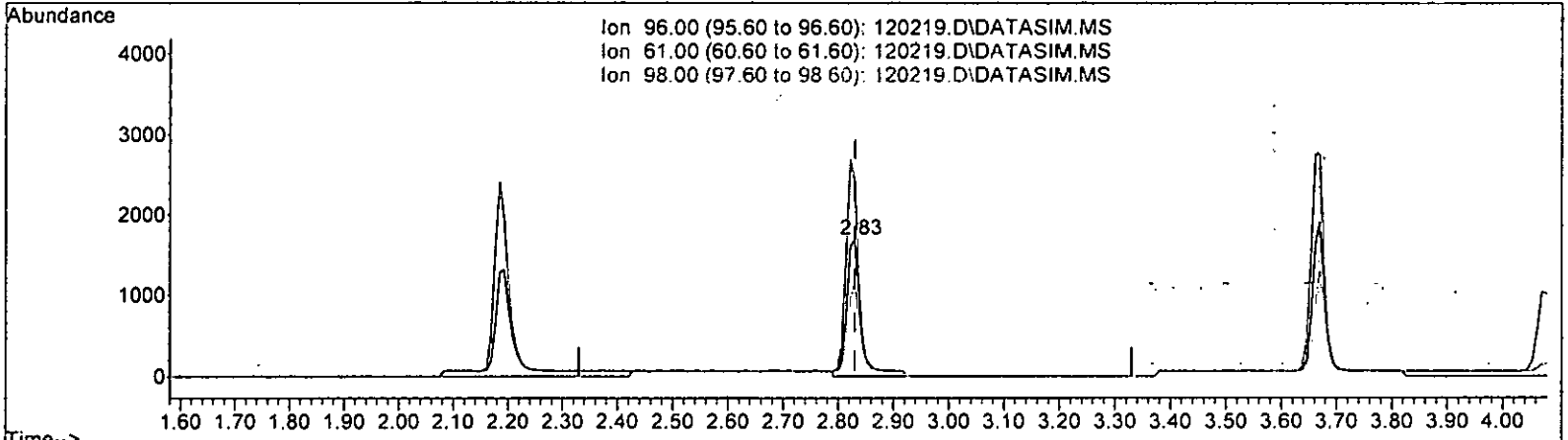
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	26.72
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 2.498 ppb

response 3008

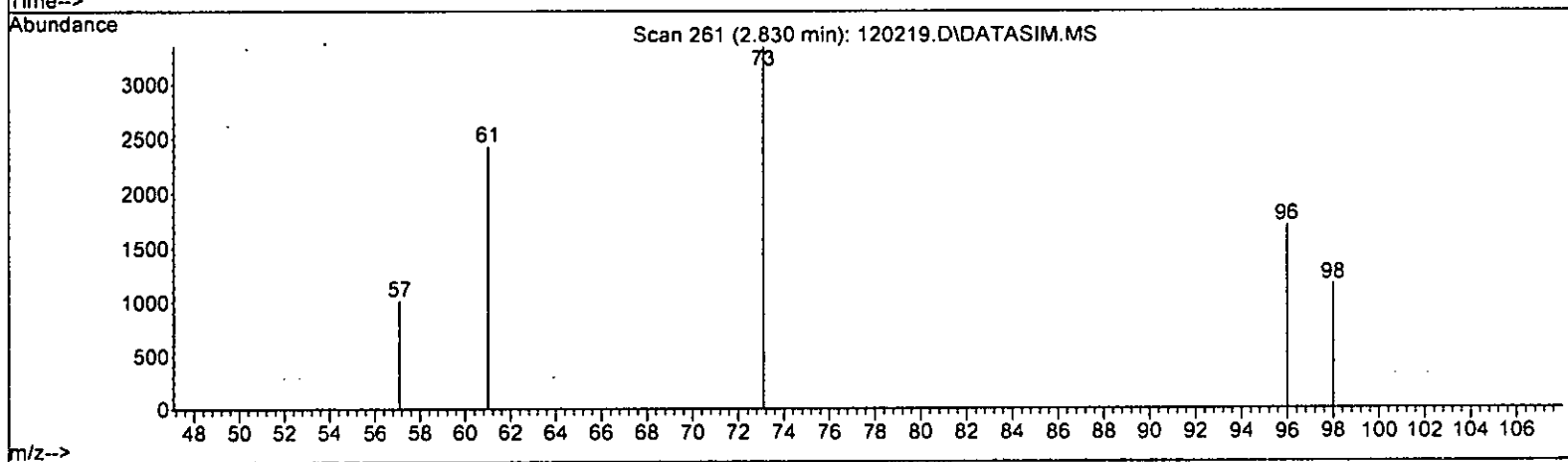
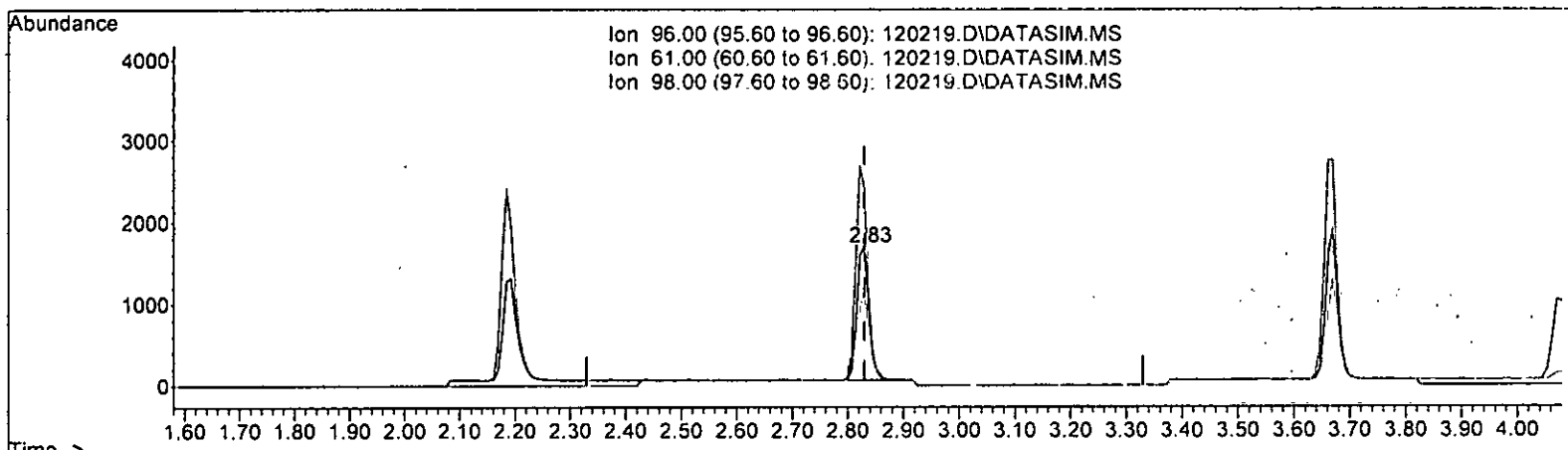
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	143.09
98.00	68.00	68.00
0.00	0.00	0.00

*Handwritten note: m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 2.081 ppb m

response 2513

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	143.09
98.00	68.00	68.00
0.00	0.00	0.00

*LM 12.5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.924	0.8	100	0.00
4 TMP Dichlorodifluoromethane	2.000	1.967	1.6	100	0.00
5 TMP Chloromethane	2.000	2.043	-2.2	100	0.00
6 TMP Vinyl chloride	2.000	2.071	-3.6	102	0.00
7 TMP Bromomethane	2.000	1.256	37.2#	110	-0.02
8 TMP Chloroethane	2.000	2.133	-6.7	100	0.00
9 TMP Trichlorofluoromethane	2.000	2.096	-4.8	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	10.000	9.845	1.5	100	0.00
12 TMP 1,1-Dichloroethene	2.000	2.019	-1.0	98	0.00
13 TMP Hexane	2.000	2.089	-4.4	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	10.000	10.729	-7.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	2.000	2.117	-5.8	100	0.00
17 TMP trans-1,2-Dichloroethene	2.000	2.081	-4.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	2.000	1.967	1.6	100	0.00
19 TMP 1,1-Dichloroethane	2.000	2.113	-5.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	2.000	1.925	3.7	100	0.00
21 TMP 2,2-Dichloropropane	2.000	2.317	-15.9	100	0.00
22 TMP cis-1,2-Dichloroethene	2.000	2.097	-4.8	100	0.00
23 TMP Chloroform	2.000	2.219	-10.9	100	0.00
24 TMP 2-Butanone (MEK)	10.000	9.267	7.3	100	0.00
25 TMP t-Amyl methyl ether (TAME)	2.000	2.086	-4.3	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	2.000	2.110	-5.5	100	0.00
27 TMP 1,1,1-Trichloroethane	2.000	2.044	-2.2	100	0.00
28 TMP 1,1-Dichloropropene	2.000	2.045	-2.2	100	0.00
29 TMP Carbon tetrachloride	2.000	2.027	-1.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.155	8.5	100	0.00
31 TMP Benzene	2.000	2.071	-3.6	100	0.00
32 TMP Trichloroethene	2.000	2.049	-2.4	100	0.00
33 TMP 1,2-Dichloropropane	2.000	2.107	-5.4	100	0.00
34 TMP Bromodichloromethane	2.000	2.163	-8.1	100	0.00
35 S Toluene-d8	10.000	9.690	3.1	100	0.00
36 TMP Dibromomethane	2.000	2.119	-6.0	100	0.00
37 TMP 4-Methyl-2-pentanone	10.000	9.781	2.2	100	0.00
38 TMP cis-1,3-Dichloropropene	2.000	2.076	-3.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	2.000	2.099	-5.0	100	0.00
41 TMP trans-1,3-Dichloropropene	2.000	2.055	-2.8	100	0.00
42 TMP 1,1,2-Trichloroethane	2.000	2.054	-2.7	100	0.00
43 TMP 2-Hexanone	10.000	10.129	-1.3	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	2.000	2.065	-3.2	100	0.00
45 TMP Tetrachloroethene	2.000	2.058	-2.9	100	0.00
46 TMP Dibromochloromethane	2.000	1.971	1.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	2.000	2.104	-5.2	100	0.00
48 TMP Chlorobenzene	2.000	2.075	-3.8	100	0.00
49 TMP Ethylbenzene	2.000	2.182	-9.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	2.000	2.047	-2.4	100	0.00
51 TMP m,p-Xylene	4.000	4.289	-7.2	100	0.00
52 TMP o-Xylene	2.000	2.127	-6.3	100	0.00
53 TMP Styrene	2.000	2.110	-5.5	100	0.00
54 TMP Isopropylbenzene	2.000	2.074	-3.7	100	0.00
55 TMP Bromoform	2.000	2.030	-1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.989	0.1	100	0.00
58 TMP n-Propylbenzene	2.000	2.138	-6.9	100	0.00
59 TMP Bromobenzene	2.000	2.113	-5.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.000	2.066	-3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	2.000	2.173	-8.7	100	0.00
62 TMP 1,2,3-Trichloropropane	2.000	2.058	-2.9	100	0.00
63 TMP 2-Chlorotoluene	2.000	2.111	-5.6	100	0.00
64 TMP 4-Chlorotoluene	2.000	2.097	-4.8	100	0.00
65 TMP tert-Butylbenzene	2.000	2.140	-7.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.000	2.060	-3.0	100	0.00
67 TMP sec-Butylbenzene	2.000	2.077	-3.8	100	0.00
68 TMP p-Isopropyltoluene	2.000	2.153	-7.7	100	0.00
69 TMP 1,3-Dichlorobenzene	2.000	2.103	-5.2	100	0.00
70 TMP 1,4-Dichlorobenzene	2.000	2.125	-6.3	100	0.00
71 TMP 1,2-Dichlorobenzene	2.000	2.135	-6.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	2.000	2.186	-9.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	2.000	2.147	-7.3	100	0.00
74 TMP Hexachlorobutadiene	2.000	2.041	-2.0	100	0.00
75 TMP Naphthalene	2.000	1.897	5.1	100	0.00
76 TMP 1,2,3-Trichlorobenzene	2.000	1.967	1.6	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.262	0.8	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.700	1.7	100	0.00
5 TMP Chloromethane	0.951	0.970	-2.0	100	0.00
6 TMP Vinyl chloride	0.862	0.783	9.2	102	0.00
7 TMP Bromomethane	0.441	0.723	-63.9#	110	-0.02
8 TMP Chloroethane	0.341	0.366	-7.3	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.942	-4.8	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.031	0.0	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.252	7.0	98	0.00
13 TMP Hexane	0.469	0.502	-7.0	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.050	-8.7	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.789	2.8	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.282	10.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.937	1.7	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.529	3.3	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.296	3.6	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.378	-8.9	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.309	6.1	100	0.00
23 TMP Chloroform	0.477	0.529	-10.9	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.176	-1.7	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.771	-4.3	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.422	11.9	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.476	3.6	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.377	-2.4	100	0.00
29 TMP Carbon tetrachloride	0.396	0.401	-1.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	100	0.00
31 TMP Benzene	1.103	1.059	4.0	100	0.00
32 TMP Trichloroethene	0.368	0.330	10.3	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.332	-5.4	100	0.00
34 TMP Bromodichloromethane	0.375	0.406	-8.3	100	0.00
35 S Toluene-d8	0.975	0.945	3.1	100	0.00
36 TMP Dibromomethane	0.181	0.192	-6.1	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.053	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.460	-3.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.915	7.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.522	-2.8	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.288	-1.1	100	0.00
43 TMP 2-Hexanone	0.312	0.316	-1.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.500	-3.3	100	0.00
45 TMP Tetrachloroethene	0.420	0.348	17.1	100	0.00
46 TMP Dibromochloromethane	0.366	0.361	1.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.344	9.2	100	0.00
48 TMP Chlorobenzene	0.957	0.993	-3.8	100	0.00
49 TMP Ethylbenzene	1.885	1.768	6.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.367	-2.5	100	0.00
51 TMP m,p-Xylene	0.705	0.665	5.7	100	0.00
52 TMP o-Xylene	0.683	0.646	5.4	100	0.00
53 TMP Styrene	1.004	1.059	-5.5	100	0.00
54 TMP Isopropylbenzene	1.606	1.666	-3.7	100	0.00
55 TMP Bromoform	0.269	0.273	-1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.863	0.1	100	0.00
58 TMP n-Propylbenzene	3.386	3.619	-6.9	100	0.00
59 TMP Bromobenzene	0.790	0.834	-5.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.563	-3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.797	-8.7	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.616	-2.8	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.168	-5.6	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.469	-4.8	100	0.00
65 TMP tert-Butylbenzene	2.194	2.348	-7.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.652	-3.0	100	0.00
67 TMP sec-Butylbenzene	3.160	3.281	-3.8	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.913	-7.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.544	-5.1	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.591	-6.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.452	-6.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.173	-9.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	1.050	-7.4	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.526	-1.9	100	0.00
75 TMP Naphthalene	2.401	2.277	5.2	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.871	1.6	100	0.00

(#) = Out of Range

SPCC's out = 2 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	44600	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35263	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	18806	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	11665	9.924	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.20%		
30) 1,2-Dichloroethane-d4	4.35	102	2434	9.155	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	91.50%		
35) Toluene-d8	5.98	98	42155	9.690	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	96.90%		
57) 4-Bromofluorobenzene	8.38	95	16232	9.989	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	99.90%		
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.08	85	6241	1.967	ppb		100
5) Chloromethane	1.22	50	8648	2.043	ppb		100
6] Vinyl chloride	1.29	62	6988	2.071	ppb		96
7) Bromomethane	1.52	94	6453m	1.256	ppb		
8] Chloroethane	1.60	64	3265m	2.133	ppb		
9) Trichlorofluoromethane	1.77	101	8407m	2.096	ppb		
10) 2-Propanol	2.39	45	280	No Calib			
11) Acetone	2.26	58	1370	9.845	ppb		100
12] 1,1-Dichloroethene	2.19	96	2244m	2.019	ppb		
13) Hexane	3.05	57	4478	2.089	ppb		100
14) Methylene chloride	0.00		0	N.D.			
15) t-Butyl alcohol (TBA)	2.73	59	2214	10.729	ppb		100
16] Methyl t-butyl ether (...)	2.84	73	7035m	2.117	ppb		
17] trans-1,2-Dichloroethene	2.83	96	2513m	2.081	ppb		
18) Diisopropyl ether (DIPE)	3.24	45	8356	1.967	ppb		100
19] 1,1-Dichloroethane	3.18	63	4723	2.113	ppb		100
20) Ethyl t-butyl ether (E...)	3.55	87	2639	1.925	ppb		100
21) 2,2-Dichloropropane	3.67	77	3370	2.317	ppb		100
22] cis-1,2-Dichloroethene	3.67	96	2759	2.097	ppb		100
23) Chloroform	3.94	83	4717	2.219	ppb		100
24) 2-Butanone (MEK)	3.71	43	7841	9.267	ppb		100
25) t-Amyl methyl ether (T...)	4.49	73	6873	2.086	ppb		100
26] 1,2-Dichloroethane (EDC)	4.41	62	3763	2.110	ppb		100
27] 1,1,1-Trichloroethane	4.08	97	4246	2.044	ppb		100
28) 1,1-Dichloropropene	4.22	75	3359	2.045	ppb		100
29) Carbon tetrachloride	4.21	117	3581	2.027	ppb		100
31] Benzene	4.39	78	9449	2.071	ppb		100
32] Trichloroethene	4.93	95	2947	2.049	ppb		100
33) 1,2-Dichloropropane	5.13	63	2958	2.107	ppb	#	100
34) Bromodichloromethane	5.37	83	3620	2.163	ppb		100
36) Dibromomethane	5.22	93	1714	2.119	ppb		100

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

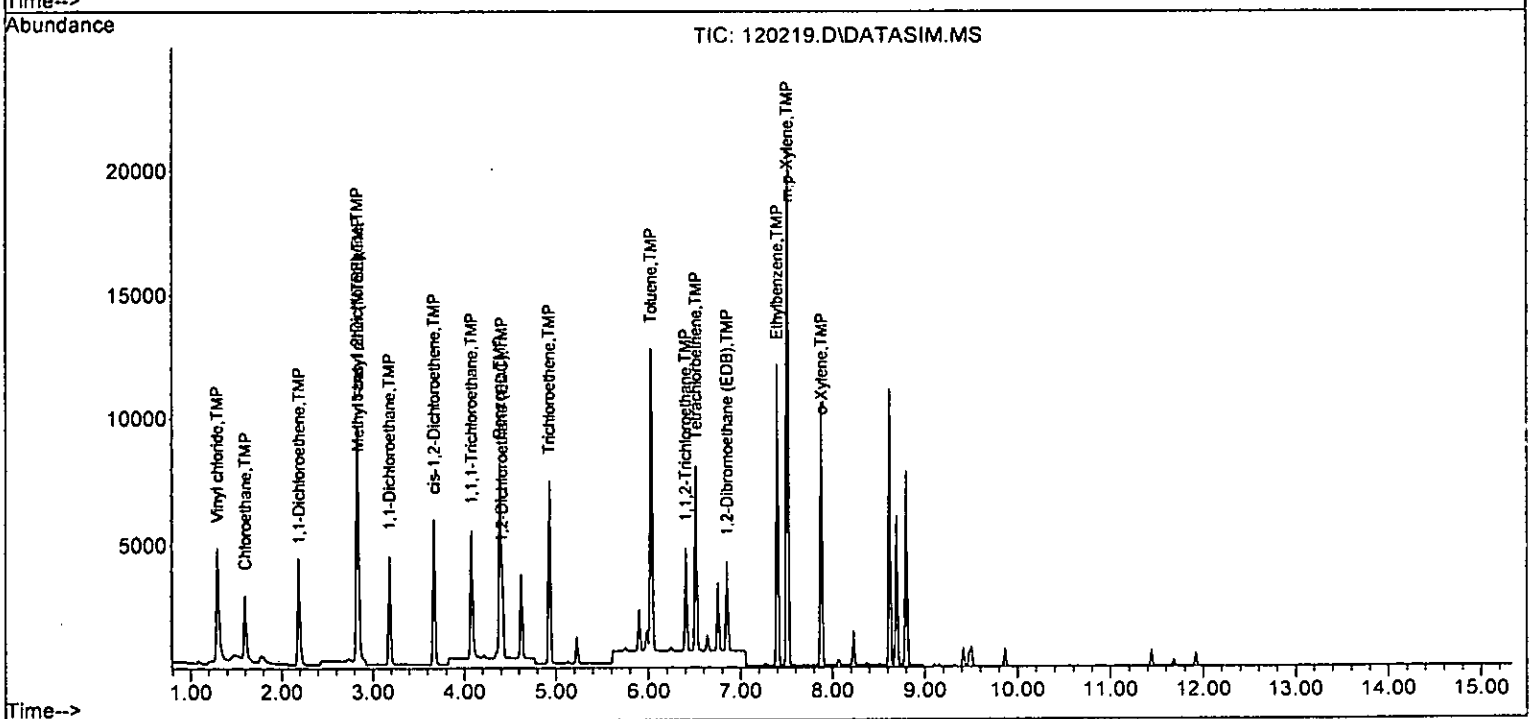
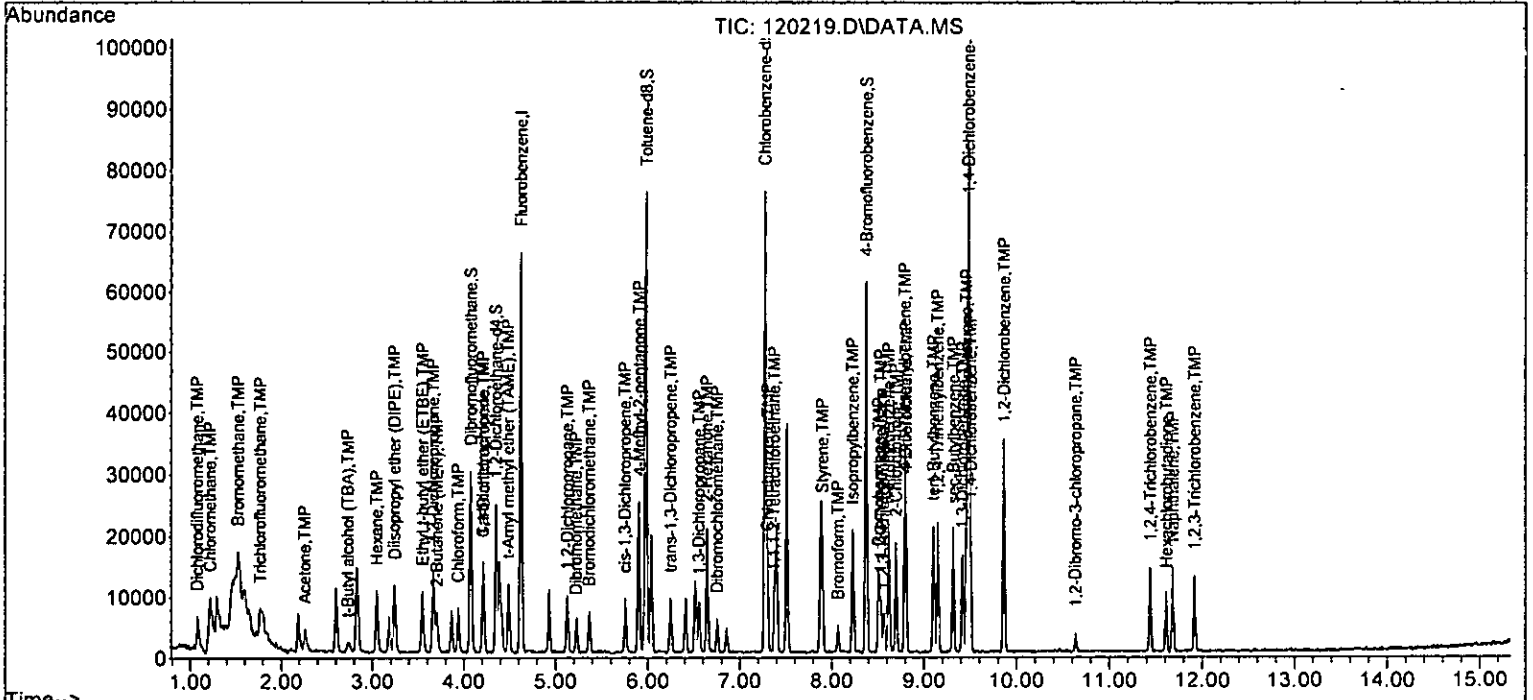
Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	2362	9.781	ppb	100
38) cis-1,3-Dichloropropene	5.75	75	4103	2.076	ppb	100
40] Toluene	6.03	92	6454	2.099	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	3678	2.055	ppb	100
42] 1,1,2-Trichloroethane	6.40	83	2028	2.054	ppb	100
43) 2-Hexanone	6.64	43	11128	10.129	ppb	100
44) 1,3-Dichloropropane	6.55	76	3527	2.065	ppb	100
45] Tetrachloroethene	6.51	164	2452	2.058	ppb	100
46) Dibromochloromethane	6.75	129	2545	1.971	ppb	100
47] 1,2-Dibromoethane (EDB)	6.85	107	2426	2.104	ppb	100
48) Chlorobenzene	7.30	112	7003	2.075	ppb	100
49] Ethylbenzene	7.40	91	12470	2.182	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.37	131	2585	2.047	ppb	100
51] m,p-Xylene	7.51	106	9374	4.289	ppb	100
52] o-Xylene	7.88	106	4558	2.127	ppb	100
53) Styrene	7.90	104	7472	2.110	ppb	100
54) Isopropylbenzene	8.23	105	11747	2.074	ppb	100
55) Bromoform	8.07	173	1926	2.030	ppb	100
58) n-Propylbenzene	8.62	91	13613	2.138	ppb	100
59) Bromobenzene	8.51	156	3138	2.113	ppb	100
60) 1,3,5-Trimethylbenzene	8.79	105	9640	2.066	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	2997	2.173	ppb	100
62) 1,2,3-Trichloropropane	8.56	75	2317	2.058	ppb	100
63) 2-Chlorotoluene	8.70	91	8155	2.111	ppb	100
64) 4-Chlorotoluene	8.81	91	9285	2.097	ppb	100
65) tert-Butylbenzene	9.10	119	8830	2.140	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	9975	2.060	ppb	100
67) sec-Butylbenzene	9.32	105	12342	2.077	ppb	100
68) p-Isopropyltoluene	9.46	119	10956	2.153	ppb	100
69) 1,3-Dichlorobenzene	9.42	146	5809	2.103	ppb	100
70) 1,4-Dichlorobenzene	9.50	146	5984	2.125	ppb	100
71) 1,2-Dichlorobenzene	9.86	146	5463	2.135	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.63	75	650	2.186	ppb	100
73) 1,2,4-Trichlorobenzene	11.44	180	3950	2.147	ppb	100
74) Hexachlorobutadiene	11.61	225	1979	2.041	ppb	100
75) Naphthalene	11.68	128	8565	1.897	ppb	100
76) 1,2,3-Trichlorobenzene	11.92	180	3275	1.967	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	45348	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35641	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19209	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11926	9.979	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.80%	
30) 1,2-Dichloroethane-d4	4.36	102	2665	9.858	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	98.60%	
35) Toluene-d8	5.98	98	43063	9.735	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	97.40%	
57) 4-Bromofluorobenzene	8.38	95	16882	10.171	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	101.70%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	15267	4.731	ppb		93
5) Chloromethane	1.23	50	18676	4.618	ppb		96
6] Vinyl chloride	1.30	62	16294	4.788	ppb		90
7) Bromomethane	1.55	94	11861m	4.370	ppb		
8] Chloroethane	1.60	64	7709	5.066	ppb		80
9) Trichlorofluoromethane	1.77	101	19233m	4.717	ppb		
10) 2-Propanol	2.41	45	194	No Calib			
11) Acetone	2.27	58	3294	23.280	ppb		92
12] 1,1-Dichloroethene	2.20	96	5590	4.974	ppb		95
13) Hexane	3.05	57	9349	4.631	ppb		94
14) Methylene chloride	2.61	84	6955	5.105	ppb		87
15) t-Butyl alcohol (TBA)	2.74	59	5271	25.122	ppb		99
16] Methyl t-butyl ether (...)	2.85	73	17079	5.081	ppb		97
17] trans-1,2-Dichloroethene	2.84	96	6418	5.279	ppb		99
18) Diisopropyl ether (DIPE)	3.25	45	19825	4.589	ppb		100
19] 1,1-Dichloroethane	3.19	63	11132	4.922	ppb		98
20) Ethyl t-butyl ether (E...)	3.55	87	6454	4.631	ppb		99
21) 2,2-Dichloropropane	3.67	77	7105	4.999	ppb		91
22] cis-1,2-Dichloroethene	3.67	96	6495	4.888	ppb		88
23) Chloroform	3.95	83	10178	4.710	ppb		97
24) 2-Butanone (MEK)	3.71	43	17984	22.943	ppb		98
25) t-Amyl methyl ether (T...)	4.50	73	16096	4.805	ppb		96
26] 1,2-Dichloroethane (EDC)	4.42	62	8801	4.907	ppb		97
27] 1,1,1-Trichloroethane	4.08	97	10066	4.783	ppb		94
28) 1,1-Dichloropropene	4.22	75	7750	4.641	ppb		89
29) Carbon tetrachloride	4.22	117	8690	4.839	ppb		99
31] Benzene	4.39	78	22322	4.837	ppb		94
32] Trichloroethene	4.93	95	7013	4.837	ppb		90
33) 1,2-Dichloropropane	5.13	63	6473	4.534	ppb		100
34) Bromodichloromethane	5.37	83	8090	4.754	ppb		98
36) Dibromomethane	5.23	93	3768	4.582	ppb		82

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

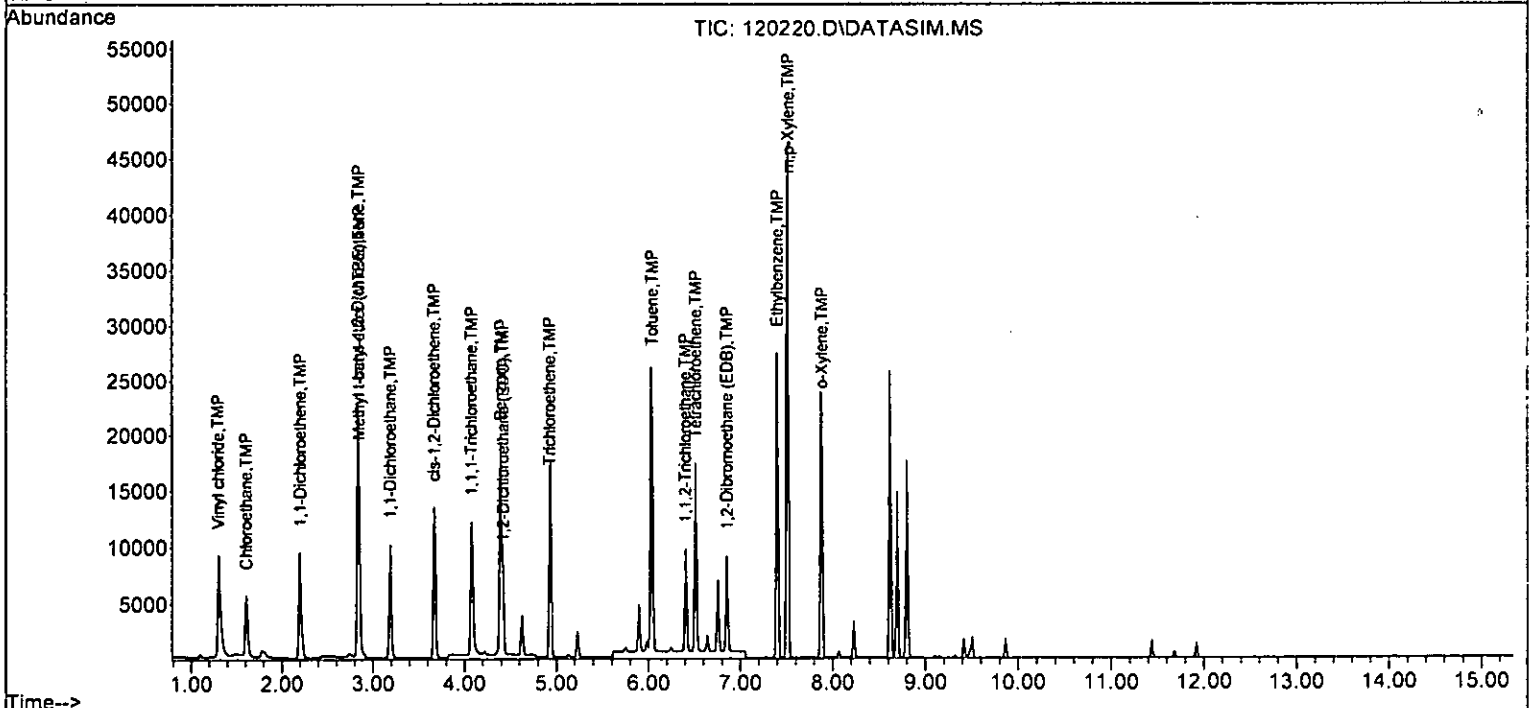
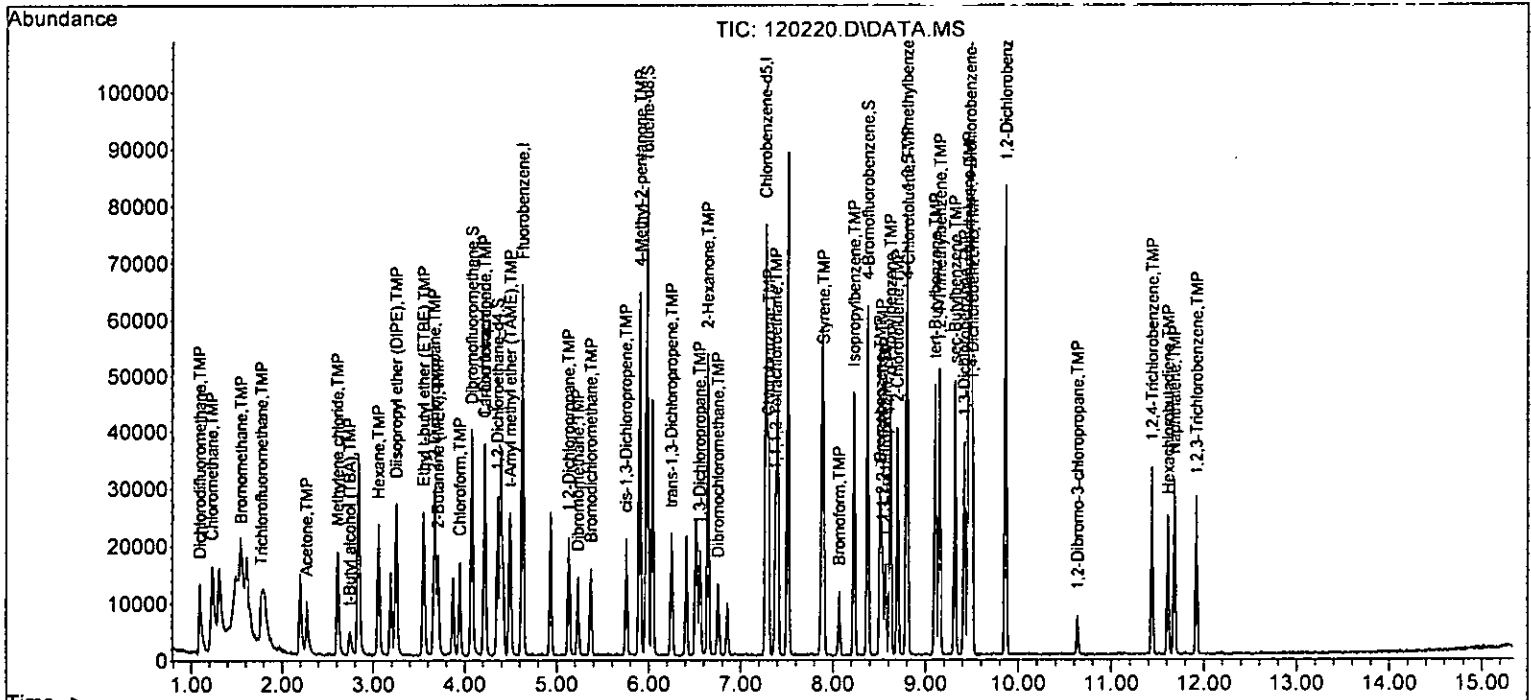
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	5373	21.882	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	9565	4.761	ppb	91
40] Toluene	6.04	92	15181	4.921	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	8770	4.847	ppb	91
42] 1,1,2-Trichloroethane	6.40	83	4779	4.821	ppb	95
43) 2-Hexanone	6.64	43	28243	25.434	ppb	99
44) 1,3-Dichloropropane	6.55	76	8478	4.911	ppb	94
45] Tetrachloroethene	6.51	164	5721	4.822	ppb	98
46) Dibromochloromethane	6.75	129	6320	4.843	ppb	93
47] 1,2-Dibromoethane (EDB)	6.85	107	5660	4.900	ppb	100
48) Chlorobenzene	7.30	112	15620	4.579	ppb	99
49] Ethylbenzene	7.40	91	29153	5.091	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	6023	4.718	ppb	86
51] m,p-Xylene	7.52	106	21754	9.923	ppb #	74
52] o-Xylene	7.88	106	10625	4.939	ppb	96
53) Styrene	7.90	104	17119	4.783	ppb	92
54) Isopropylbenzene	8.23	105	27794	4.855	ppb	88
55) Bromoform	8.07	173	4427	4.616	ppb	93
58) n-Propylbenzene	8.62	91	31396	4.827	ppb	89
59) Bromobenzene	8.51	156	7456	4.916	ppb	88
60) 1,3,5-Trimethylbenzene	8.80	105	23084	4.843	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	7170	5.089	ppb	74
62) 1,2,3-Trichloropropane	8.57	75	5498	4.780	ppb	96
63) 2-Chlorotoluene	8.70	91	19366	4.908	ppb	98
64) 4-Chlorotoluene	8.81	91	21649	4.786	ppb	95
65) tert-Butylbenzene	9.10	119	20199	4.793	ppb	94
66) 1,2,4-Trimethylbenzene	9.15	105	23871	4.827	ppb	100
67) sec-Butylbenzene	9.31	105	29083	4.791	ppb	98
68) p-Isopropyltoluene	9.46	119	24684	4.748	ppb	94
69) 1,3-Dichlorobenzene	9.42	146	13244	4.693	ppb	91
70) 1,4-Dichlorobenzene	9.50	146	13687	4.758	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	13034	4.987	ppb	91
72) 1,2-Dibromo-3-chloropr...	10.64	75	1478	4.865	ppb	82
73) 1,2,4-Trichlorobenzene	11.44	180	8522	4.534	ppb	94
74) Hexachlorobutadiene	11.61	225	4888	4.936	ppb	97
75) Naphthalene	11.68	128	20755	4.499	ppb	96
76) 1,2,3-Trichlorobenzene	11.92	180	7711	4.533	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
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 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	9.979	0.2	100	0.00
4 TMP	Dichlorodifluoromethane	5.000	4.731	5.4	100	0.00
5 TMP	Chloromethane	5.000	4.618	7.6	100	0.00
6 TMP	Vinyl chloride	5.000	4.788	4.2	102	0.00
7 TMP	Bromomethane	5.000	4.370	12.6	120	0.00
8 TMP	Chloroethane	5.000	5.066	-1.3	106	0.00
9 TMP	Trichlorofluoromethane	5.000	4.717	5.7	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	25.000	23.280	6.9	100	0.00
12 TMP	1,1-Dichloroethene	5.000	4.974	0.5	105	0.00
13 TMP	Hexane	5.000	4.631	7.4	100	0.00
14 TMP	Methylene chloride	5.000	5.105	-2.1	100	0.00
15 TMP	t-Butyl alcohol (TBA)	25.000	25.122	-0.5	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	5.000	5.081	-1.6	103	0.00
17 TMP	trans-1,2-Dichloroethene	5.000	5.279	-5.6	107	0.00
18 TMP	Diisopropyl ether (DIPE)	5.000	4.589	8.2	100	0.00
19 TMP	1,1-Dichloroethane	5.000	4.922	1.6	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	5.000	4.631	7.4	100	0.00
21 TMP	2,2-Dichloropropane	5.000	4.999	0.0	100	0.00
22 TMP	cis-1,2-Dichloroethene	5.000	4.888	2.2	100	0.00
23 TMP	Chloroform	5.000	4.710	5.8	100	0.00
24 TMP	2-Butanone (MEK)	25.000	22.943	8.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	5.000	4.805	3.9	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	5.000	4.907	1.9	100	0.00
27 TMP	1,1,1-Trichloroethane	5.000	4.783	4.3	100	0.00
28 TMP	1,1-Dichloropropene	5.000	4.641	7.2	100	0.00
29 TMP	Carbon tetrachloride	5.000	4.839	3.2	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.858	1.4	100	0.00
31 TMP	Benzene	5.000	4.837	3.3	100	0.00
32 TMP	Trichloroethene	5.000	4.837	3.3	100	0.00
33 TMP	1,2-Dichloropropane	5.000	4.534	9.3	100	0.00
34 TMP	Bromodichloromethane	5.000	4.754	4.9	100	0.00
35 S	Toluene-d8	10.000	9.735	2.7	100	0.00
36 TMP	Dibromomethane	5.000	4.582	8.4	100	0.00
37 TMP	4-Methyl-2-pentanone	25.000	21.882	12.5	100	0.00
38 TMP	cis-1,3-Dichloropropene	5.000	4.761	4.8	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	5.000	4.921	1.6	100	0.01
41 TMP	trans-1,3-Dichloropropene	5.000	4.847	3.1	100	0.00
42 TMP	1,1,2-Trichloroethane	5.000	4.821	3.6	100	0.00
43 TMP	2-Hexanone	25.000	25.434	-1.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	5.000	4.911	1.8	100	0.00
45 TMP Tetrachloroethene	5.000	4.822	3.6	100	0.00
46 TMP Dibromochloromethane	5.000	4.843	3.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	5.000	4.900	2.0	100	0.00
48 TMP Chlorobenzene	5.000	4.579	8.4	100	0.00
49 TMP Ethylbenzene	5.000	5.091	-1.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	5.000	4.718	5.6	100	0.00
51 TMP m,p-Xylene	10.000	9.923	0.8	100	0.00
52 TMP o-Xylene	5.000	4.939	1.2	100	0.00
53 TMP Styrene	5.000	4.783	4.3	100	0.00
54 TMP Isopropylbenzene	5.000	4.855	2.9	100	0.00
55 TMP Bromoform	5.000	4.616	7.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.171	-1.7	100	0.00
58 TMP n-Propylbenzene	5.000	4.827	3.5	100	0.00
59 TMP Bromobenzene	5.000	4.916	1.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	5.000	4.843	3.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	5.000	5.089	-1.8	100	0.00
62 TMP 1,2,3-Trichloropropane	5.000	4.780	4.4	100	0.00
63 TMP 2-Chlorotoluene	5.000	4.908	1.8	100	0.00
64 TMP 4-Chlorotoluene	5.000	4.786	4.3	100	0.00
65 TMP tert-Butylbenzene	5.000	4.793	4.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	5.000	4.827	3.5	100	0.00
67 TMP sec-Butylbenzene	5.000	4.791	4.2	100	0.00
68 TMP p-Isopropyltoluene	5.000	4.748	5.0	100	0.00
69 TMP 1,3-Dichlorobenzene	5.000	4.693	6.1	100	0.00
70 TMP 1,4-Dichlorobenzene	5.000	4.758	4.8	100	0.00
71 TMP 1,2-Dichlorobenzene	5.000	4.987	0.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	5.000	4.865	2.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	5.000	4.534	9.3	100	0.00
74 TMP Hexachlorobutadiene	5.000	4.936	1.3	100	0.00
75 TMP Naphthalene	5.000	4.499	10.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	5.000	4.533	9.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	#	-1.86#
3 S Dibromofluoromethane	0.264	0.263	0.4	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.673	5.5	100	0.00
5 TMP Chloromethane	0.951	0.824	13.4	100	0.00
6 TMP Vinyl chloride	0.862	0.719	16.6	102	0.00
7 TMP Bromomethane	0.441	0.523	-18.6	120	0.00
8 TMP Chloroethane	0.341	0.340	0.3	106	0.00
9 TMP Trichlorofluoromethane	0.899	0.848	5.7	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	#	0.00
11 TMP Acetone	0.031	0.029	6.5	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.247	8.9	105	0.00
13 TMP Hexane	0.469	0.412	12.2	100	0.00
14 TMP Methylene chloride	0.269	0.307	-14.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.753	7.3	103	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.283	9.9	107	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.874	8.3	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.491	10.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.285	7.2	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.313	9.8	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.286	13.1	100	0.00
23 TMP Chloroform	0.477	0.449	5.9	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.159	8.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.710	3.9	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.388	19.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.444	10.1	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.342	7.1	100	0.00
29 TMP Carbon tetrachloride	0.396	0.383	3.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.059	1.7	100	0.00
31 TMP Benzene	1.103	0.984	10.8	100	0.00
32 TMP Trichloroethene	0.368	0.309	16.0	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.285	9.5	100	0.00
34 TMP Bromodichloromethane	0.375	0.357	4.8	100	0.00
35 S Toluene-d8	0.975	0.950	2.6	100	0.00
36 TMP Dibromomethane	0.181	0.166	8.3	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.047	13.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.422	4.7	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.852	13.6	100	0.01
41 TMP trans-1,3-Dichloropropene	0.508	0.492	3.1	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.268	6.0	100	0.00
43 TMP 2-Hexanone	0.312	0.317	-1.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.476	1.7	100	0.00
45 TMP Tetrachloroethene	0.420	0.321	23.6#	100	0.00
46 TMP Dibromochloromethane	0.366	0.355	3.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.318	16.1	100	0.00
48 TMP Chlorobenzene	0.957	0.877	8.4	100	0.00
49 TMP Ethylbenzene	1.885	1.636	13.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.338	5.6	100	0.00
51 TMP m,p-Xylene	0.705	0.610	13.5	100	0.00
52 TMP o-Xylene	0.683	0.596	12.7	100	0.00
53 TMP Styrene	1.004	0.961	4.3	100	0.00
54 TMP Isopropylbenzene	1.606	1.560	2.9	100	0.00
55 TMP Bromoform	0.269	0.248	7.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.879	-1.7	100	0.00
58 TMP n-Propylbenzene	3.386	3.269	3.5	100	0.00
59 TMP Bromobenzene	0.790	0.776	1.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.403	3.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.747	-1.9	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.572	4.5	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.016	1.9	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.254	4.3	100	0.00
65 TMP tert-Butylbenzene	2.194	2.103	4.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.485	3.5	100	0.00
67 TMP sec-Butylbenzene	3.160	3.028	4.2	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.570	5.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.379	6.1	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.425	4.9	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.357	0.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.154	2.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.887	9.3	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.509	1.4	100	0.00
75 TMP Naphthalene	2.401	2.161	10.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.803	9.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.896	1.0	100	0.00
4 TMP Dichlorodifluoromethane	10.000	10.035	-0.4	100	0.00
5 TMP Chloromethane	10.000	9.532	4.7	100	0.00
6 TMP Vinyl chloride	10.000	10.328	-3.3	100	0.00
7 TMP Bromomethane	10.000	9.679	3.2	101	0.00
8 TMP Chloroethane	10.000	10.838	-8.4	100	0.00
9 TMP Trichlorofluoromethane	10.000	9.502	5.0	90	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	49.347	1.3	100	0.00
12 TMP 1,1-Dichloroethene	10.000	10.318	-3.2	100	0.00
13 TMP Hexane	10.000	10.067	-0.7	100	0.00
14 TMP Methylene chloride	10.000	9.781	2.2	100	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	49.556	0.9	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.591	-5.9	100	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.777	-7.8	100	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.646	3.5	100	0.00
19 TMP 1,1-Dichloroethane	10.000	10.444	-4.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.326	-3.3	100	0.00
21 TMP 2,2-Dichloropropane	10.000	9.829	1.7	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	10.331	-3.3	100	0.00
23 TMP Chloroform	10.000	9.757	2.4	100	0.00
24 TMP 2-Butanone (MEK)	50.000	54.072	-8.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	9.789	2.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	10.370	-3.7	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.096	-1.0	100	0.00
28 TMP 1,1-Dichloropropene	10.000	9.929	0.7	100	0.00
29 TMP Carbon tetrachloride	10.000	9.984	0.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.097	-1.0	100	0.00
31 TMP Benzene	10.000	10.146	-1.5	100	0.00
32 TMP Trichloroethene	10.000	10.335	-3.4	100	0.00
33 TMP 1,2-Dichloropropane	10.000	9.365	6.3	100	0.00
34 TMP Bromodichloromethane	10.000	9.534	4.7	100	0.00
35 S Toluene-d8	10.000	10.316	-3.2	100	0.00
36 TMP Dibromomethane	10.000	9.706	2.9	100	0.00
37 TMP 4-Methyl-2-pentanone	50.000	50.737	-1.5	100	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.897	1.0	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	10.000	10.088	-0.9	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.993	0.1	100	0.00
42 TMP 1,1,2-Trichloroethane	10.000	9.891	1.1	100	0.00
43 TMP 2-Hexanone	50.000	50.642	-1.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM511\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	9.901	1.0	100	0.00
45 TMP Tetrachloroethene	10.000	9.960	0.4	100	0.00
46 TMP Dibromochloromethane	10.000	9.928	0.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.022	-0.2	100	0.00
48 TMP Chlorobenzene	10.000	9.741	2.6	100	0.00
49 TMP Ethylbenzene	10.000	10.490	-4.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.501	5.0	100	0.00
51 TMP m,p-Xylene	20.000	20.246	-1.2	100	0.00
52 TMP o-Xylene	10.000	10.130	-1.3	100	0.00
53 TMP Styrene	10.000	9.869	1.3	100	0.00
54 TMP Isopropylbenzene	10.000	9.818	1.8	100	0.00
55 TMP Bromoform	10.000	9.603	4.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.896	1.0	100	0.00
58 TMP n-Propylbenzene	10.000	9.921	0.8	100	0.00
59 TMP Bromobenzene	10.000	9.726	2.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.742	2.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.812	1.9	100	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.764	2.4	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.530	4.7	100	0.00
64 TMP 4-Chlorotoluene	10.000	9.733	2.7	100	0.00
65 TMP tert-Butylbenzene	10.000	9.787	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.604	4.0	100	0.00
67 TMP sec-Butylbenzene	10.000	9.850	1.5	100	0.00
68 TMP p-Isopropyltoluene	10.000	9.988	0.1	100	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.571	4.3	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.680	3.2	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.098	-1.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.225	7.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.572	4.3	100	0.00
74 TMP Hexachlorobutadiene	10.000	9.923	0.8	100	0.00
75 TMP Naphthalene	10.000	9.397	6.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.666	3.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.261	1.1	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	0.828	12.9	100	0.00
6 TMP Vinyl chloride	0.862	0.772	10.4	100	0.00
7 TMP Bromomethane	0.441	0.461	-4.5	101	0.00
8 TMP Chloroethane	0.341	0.361	-5.9	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.854	5.0	90	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.031	0.0	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.255	5.9	100	0.00
13 TMP Hexane	0.469	0.432	7.9	100	0.00
14 TMP Methylene chloride	0.269	0.276	-2.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.784	3.4	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.288	8.3	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.919	3.6	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.520	4.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.317	-3.3	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.303	12.7	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.302	8.2	100	0.00
23 TMP Chloroform	0.477	0.465	2.5	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.180	-4.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.723	2.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.408	14.8	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.468	5.3	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.366	0.5	100	0.00
29 TMP Carbon tetrachloride	0.396	0.395	0.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	1.103	1.029	6.7	100	0.00
32 TMP Trichloroethene	0.368	0.329	10.6	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.295	6.3	100	0.00
34 TMP Bromodichloromethane	0.375	0.358	4.5	100	0.00
35 S Toluene-d8	0.975	1.006	-3.2	100	0.00
36 TMP Dibromomethane	0.181	0.176	2.8	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.055	-1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.439	0.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.871	11.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.507	0.2	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.274	3.9	100	0.00
43 TMP 2-Hexanone	0.312	0.316	-1.3	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.480	0.8	100	0.00
45 TMP Tetrachloroethene	0.420	0.330	21.4#	100	0.00
46 TMP Dibromochloromethane	0.366	0.364	0.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.324	14.5	100	0.00
48 TMP Chlorobenzene	0.957	0.932	2.6	100	0.00
49 TMP Ethylbenzene	1.885	1.680	10.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.340	5.0	100	0.00
51 TMP m,p-Xylene	0.705	0.621	11.9	100	0.00
52 TMP o-Xylene	0.683	0.610	10.7	100	0.00
53 TMP Styrene	1.004	0.991	1.3	100	0.00
54 TMP Isopropylbenzene	1.606	1.577	1.8	100	0.00
55 TMP Bromoform	0.269	0.258	4.1	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.855	1.0	100	0.00
58 TMP n-Propylbenzene	3.386	3.359	0.8	100	0.00
59 TMP Bromobenzene	0.790	0.768	2.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.418	2.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.720	1.8	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.585	2.3	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.958	4.7	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.292	2.7	100	0.00
65 TMP tert-Butylbenzene	2.194	2.147	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.473	4.0	100	0.00
67 TMP sec-Butylbenzene	3.160	3.112	1.5	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.703	0.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.406	4.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.450	3.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.374	-1.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.146	7.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.937	4.2	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.512	0.8	100	0.00
75 TMP Naphthalene	2.401	2.257	6.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.856	3.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	43527	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35359	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19116	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	11352	9.896	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.00%		
30) 1,2-Dichloroethane-d4	4.36	102	2620	10.097	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	101.00%		
35) Toluene-d8	5.98	98	43798	10.316	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	103.20%		
57) 4-Bromofluorobenzene	8.38	95	16346	9.896	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	99.00%		
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	1.09	85	31081	10.035	ppb	97	
5) Chloromethane	1.23	50	36022	9.532	ppb	96	
6] Vinyl chloride	1.30	62	33620	10.328	ppb	94	
7) Bromomethane	1.54	94	20057	9.679	ppb	72	
8] Chloroethane	1.61	64	15694	10.838	ppb	83	
9) Trichlorofluoromethane	1.78	101	37188	9.502	ppb	62	
10) 2-Propanol	2.40	45	416	No Calib			
11) Acetone	2.27	58	6702	49.347	ppb	# 84	
12] 1,1-Dichloroethene	2.19	96	11109	10.318	ppb	# 80	
13) Hexane	3.06	57	18819	10.067	ppb	95	
14) Methylene chloride	2.61	84	12000	9.781	ppb	# 80	
15) t-Butyl alcohol (TBA)	2.74	59	9980	49.556	ppb	95	
16] Methyl t-butyl ether (...)	2.84	73	34108	10.591	ppb	99	
17] trans-1,2-Dichloroethene	2.83	96	12535	10.777	ppb	89	
18) Diisopropyl ether (DIPE)	3.24	45	39996	9.646	ppb	98	
19] 1,1-Dichloroethane	3.18	63	22625	10.444	ppb	96	
20) Ethyl t-butyl ether (E...)	3.55	87	13812	10.326	ppb	89	
21) 2,2-Dichloropropane	3.67	77	13178	9.829	ppb	85	
22] cis-1,2-Dichloroethene	3.67	96	13141	10.331	ppb	94	
23) Chloroform	3.94	83	20237	9.757	ppb	95	
24) 2-Butanone (MEK)	3.71	43	39134	54.072	ppb	98	
25) t-Amyl methyl ether (T...)	4.50	73	31473	9.789	ppb	98	
26] 1,2-Dichloroethane (EDC)	4.42	62	17774	10.370	ppb	96	
27] 1,1,1-Trichloroethane	4.08	97	20367	10.096	ppb	97	
28) 1,1-Dichloropropene	4.22	75	15913	9.929	ppb	95	
29) Carbon tetrachloride	4.21	117	17212	9.984	ppb	95	
31] Benzene	4.39	78	44807	10.146	ppb	93	
32] Trichloroethene	4.93	95	14336	10.335	ppb	95	
33) 1,2-Dichloropropane	5.13	63	12834	9.365	ppb	100	
34) Bromodichloromethane	5.37	83	15573	9.534	ppb	92	
36) Dibromomethane	5.23	93	7661	9.706	ppb	# 80	

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

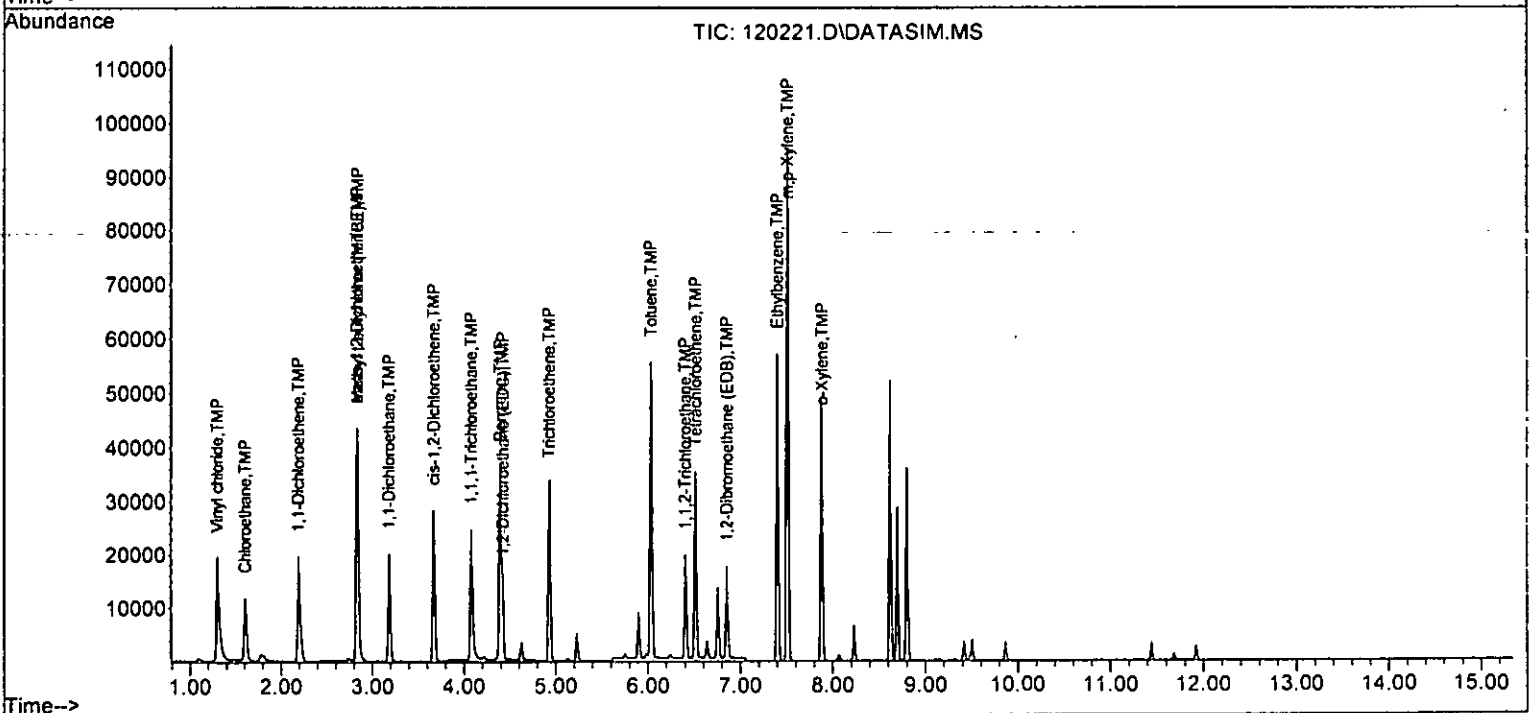
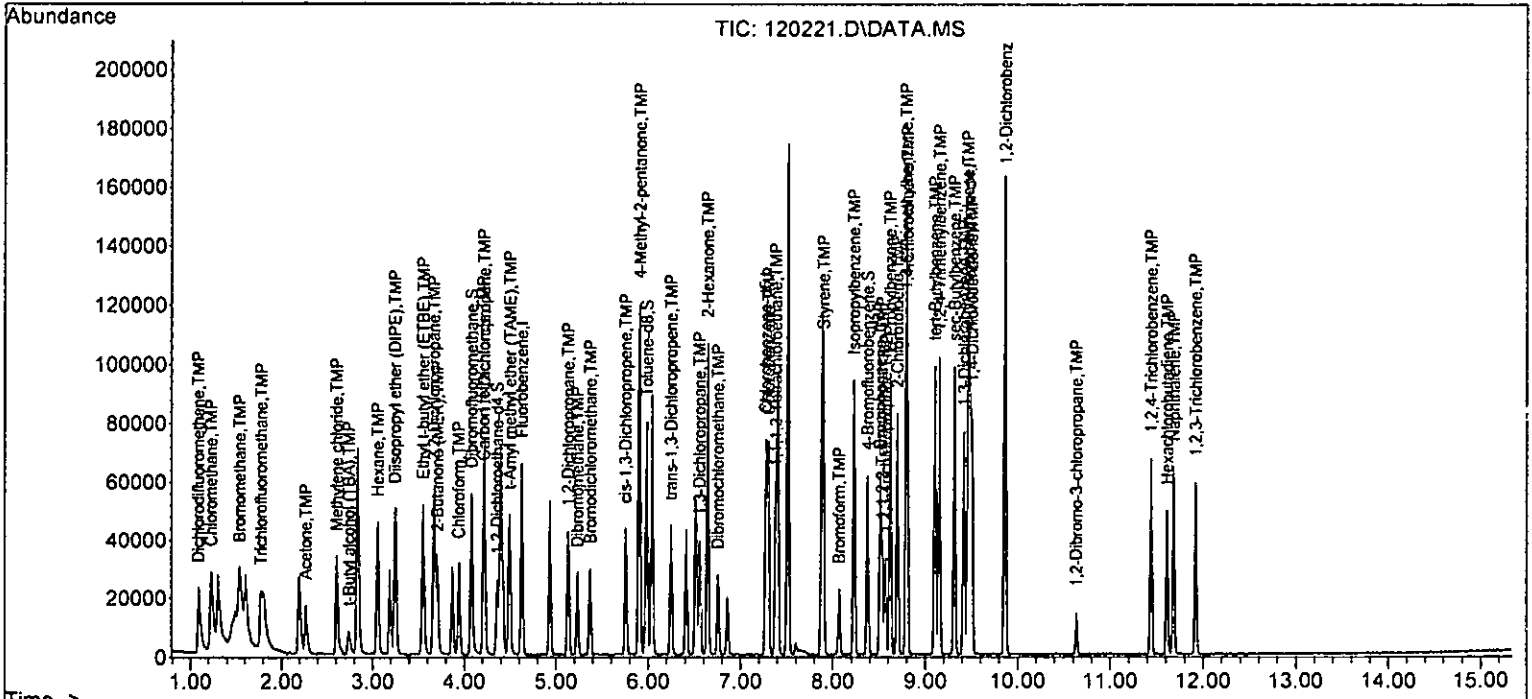
Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11958	50.737	ppb	94
38) cis-1,3-Dichloropropene	5.75	75	19087	9.897	ppb	94
40] Toluene	6.03	92	30787	10.088	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	17937	9.993	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	9694	9.891	ppb	98
43) 2-Hexanone	6.64	43	55790	50.642	ppb	99
44) 1,3-Dichloropropane	6.55	76	16957	9.901	ppb	98
45] Tetrachloroethene	6.51	164	11651	9.960	ppb	99
46) Dibromochloromethane	6.75	129	12853	9.928	ppb	88
47] 1,2-Dibromoethane (EDB)	6.85	107	11445	10.022	ppb	100
48) Chlorobenzene	7.30	112	32968	9.741	ppb	96
49] Ethylbenzene	7.40	91	59389	10.490	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	12033	9.501	ppb #	75
51] m,p-Xylene	7.51	106	43904	20.246	ppb	98
52] o-Xylene	7.89	106	21562	10.130	ppb	99
53) Styrene	7.90	104	35041	9.869	ppb	95
54) Isopropylbenzene	8.23	105	55761	9.818	ppb	97
55) Bromoform	8.07	173	9136	9.603	ppb	93
58) n-Propylbenzene	8.62	91	64216	9.921	ppb	91
59) Bromobenzene	8.51	156	14679	9.726	ppb	77
60) 1,3,5-Trimethylbenzene	8.79	105	46214	9.742	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	13758	9.812	ppb	78
62) 1,2,3-Trichloropropane	8.57	75	11175	9.764	ppb	89
63) 2-Chlorotoluene	8.70	91	37422	9.530	ppb	99
64) 4-Chlorotoluene	8.81	91	43818	9.733	ppb	93
65) tert-Butylbenzene	9.10	119	41042	9.787	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	47268	9.604	ppb	100
67) sec-Butylbenzene	9.31	105	59498	9.850	ppb	95
68) p-Isopropyltoluene	9.46	119	51671	9.988	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	26878	9.571	ppb	88
70) 1,4-Dichlorobenzene	9.50	146	27712	9.680	ppb	96
71) 1,2-Dichlorobenzene	9.86	146	26264	10.098	ppb	94
72) 1,2-Dibromo-3-chloropr...	10.63	75	2789	9.225	ppb	92
73) 1,2,4-Trichlorobenzene	11.44	180	17904	9.572	ppb	99
74) Hexachlorobutadiene	11.61	225	9780	9.923	ppb	94
75) Naphthalene	11.68	128	43136	9.397	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	16362	9.666	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq Dn : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.133	-1.3	100	0.00
4 TMP Dichlorodifluoromethane	20.000	19.723	1.4	100	0.00
5 TMP Chloromethane	20.000	19.290	3.6	100	0.00
6 TMP Vinyl chloride	20.000	19.864	0.7	100	0.00
7 TMP Bromomethane	20.000	19.453	2.7	100	0.00
8 TMP Chloroethane	20.000	20.035	-0.2	100	0.00
9 TMP Trichlorofluoromethane	20.000	19.124	4.4	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	100.000	92.609	7.4	100	0.00
12 TMP 1,1-Dichloroethene	20.000	19.649	1.8	100	0.00
13 TMP Hexane	20.000	19.637	1.8	100	0.00
14 TMP Methylene chloride	20.000	19.864	0.7	100	0.00
15 TMP t-Butyl alcohol (TBA)	100.000	92.949	7.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	20.000	20.384	-1.9	100	0.00
17 TMP trans-1,2-Dichloroethene	20.000	20.378	-1.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	20.000	18.603	7.0	100	0.00
19 TMP 1,1-Dichloroethane	20.000	20.002	-0.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	20.000	19.533	2.3	100	0.00
21 TMP 2,2-Dichloropropane	20.000	21.356	-6.8	100	0.00
22 TMP cis-1,2-Dichloroethene	20.000	19.907	0.5	100	0.00
23 TMP Chloroform	20.000	19.232	3.8	100	0.00
24 TMP 2-Butanone (MEK)	100.000	101.636	-1.6	100	0.00
25 TMP t-Amyl methyl ether (TAME)	20.000	19.270	3.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	20.000	19.892	0.5	100	0.00
27 TMP 1,1,1-Trichloroethane	20.000	19.496	2.5	100	0.00
28 TMP 1,1-Dichloropropene	20.000	19.422	2.9	100	0.00
29 TMP Carbon tetrachloride	20.000	19.060	4.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.112	-1.1	100	0.00
31 TMP Benzene	20.000	19.518	2.4	100	0.00
32 TMP Trichloroethene	20.000	20.002	-0.0	100	0.00
33 TMP 1,2-Dichloropropane	20.000	17.940	10.3	100	0.00
34 TMP Bromodichloromethane	20.000	18.740	6.3	100	0.00
35 S Toluene-d8	10.000	10.114	-1.1	100	0.00
36 TMP Dibromomethane	20.000	18.482	7.6	100	0.00
37 TMP 4-Methyl-2-pentanone	100.000	97.075	2.9	100	0.00
38 TMP cis-1,3-Dichloropropene	20.000	18.649	6.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	20.000	19.624	1.9	100	0.00
41 TMP trans-1,3-Dichloropropene	20.000	19.243	3.8	100	0.00
42 TMP 1,1,2-Trichloroethane	20.000	19.237	3.8	100	0.00
43 TMP 2-Hexanone	100.000	98.546	1.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	20.000	19.134	4.3	100	0.00
45 TMP Tetrachloroethene	20.000	19.413	2.9	100	0.00
46 TMP Dibromochloromethane	20.000	19.297	3.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	20.000	19.654	1.7	100	0.00
48 TMP Chlorobenzene	20.000	18.826	5.9	100	0.00
49 TMP Ethylbenzene	20.000	20.297	-1.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	20.000	18.994	5.0	100	0.00
51 TMP m,p-Xylene	40.000	39.009	2.5	100	0.00
52 TMP o-Xylene	20.000	19.602	2.0	100	0.00
53 TMP Styrene	20.000	19.080	4.6	100	0.00
54 TMP Isopropylbenzene	20.000	19.133	4.3	100	0.00
55 TMP Bromoform	20.000	18.984	5.1	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.928	0.7	100	0.00
58 TMP n-Propylbenzene	20.000	18.931	5.3	100	0.00
59 TMP Bromobenzene	20.000	18.698	6.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	20.000	18.733	6.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	20.000	19.466	2.7	100	0.00
62 TMP 1,2,3-Trichloropropane	20.000	18.609	7.0	100	0.00
63 TMP 2-Chlorotoluene	20.000	18.460	7.7	100	0.00
64 TMP 4-Chlorotoluene	20.000	18.756	6.2	100	0.00
65 TMP tert-Butylbenzene	20.000	18.989	5.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	20.000	18.736	6.3	100	0.00
67 TMP sec-Butylbenzene	20.000	19.097	4.5	100	0.00
68 TMP p-Isopropyltoluene	20.000	19.361	3.2	100	0.00
69 TMP 1,3-Dichlorobenzene	20.000	18.505	7.5	100	0.00
70 TMP 1,4-Dichlorobenzene	20.000	18.585	7.1	100	0.00
71 TMP 1,2-Dichlorobenzene	20.000	19.213	3.9	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	20.000	19.320	3.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	20.000	18.879	5.6	100	0.00
74 TMP Hexachlorobutadiene	20.000	19.965	0.2	100	0.00
75 TMP Naphthalene	20.000	18.689	6.6	100	0.00
76 TMP 1,2,3-Trichlorobenzene	20.000	19.114	4.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	#	-1.86#
3 S Dibromofluoromethane	0.264	0.267	-1.1	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.702	1.4	100	0.00
5 TMP Chloromethane	0.951	0.827	13.0	100	0.00
6 TMP Vinyl chloride	0.862	0.742	13.9	100	0.00
7 TMP Bromomethane	0.441	0.414	6.1	100	0.00
8 TMP Chloroethane	0.341	0.332	2.6	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.860	4.3	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	#	0.00
11 TMP Acetone	0.031	0.029	6.5	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.243	10.3	100	0.00
13 TMP Hexane	0.469	0.415	11.5	100	0.00
14 TMP Methylene chloride	0.269	0.269	0.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.043	6.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.753	7.3	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.272	13.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.886	7.0	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.497	9.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.300	2.3	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.326	6.1	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.291	11.6	100	0.00
23 TMP Chloroform	0.477	0.458	4.0	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.167	3.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.712	3.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.391	18.4	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.452	8.5	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.358	2.7	100	0.00
29 TMP Carbon tetrachloride	0.396	0.377	4.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	1.103	0.988	10.4	100	0.00
32 TMP Trichloroethene	0.368	0.318	13.6	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.282	10.5	100	0.00
34 TMP Bromodichloromethane	0.375	0.352	6.1	100	0.00
35 S Toluene-d8	0.975	0.987	-1.2	100	0.00
36 TMP Dibromomethane	0.181	0.168	7.2	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.053	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.413	6.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.846	14.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.488	3.9	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.266	6.7	100	0.00
43 TMP 2-Hexanone	0.312	0.307	1.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.463	4.3	100	0.00
45 TMP Tetrachloroethene	0.420	0.320	23.8#	100	0.00
46 TMP Dibromochloromethane	0.366	0.353	3.6	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.317	16.4	100	0.00
48 TMP Chlorobenzene	0.957	0.901	5.9	100	0.00
49 TMP Ethylbenzene	1.885	1.622	14.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.340	5.0	100	0.00
51 TMP m,p-Xylene	0.705	0.597	15.3	100	0.00
52 TMP o-Xylene	0.683	0.589	13.8	100	0.00
53 TMP Styrene	1.004	0.958	4.6	100	0.00
54 TMP Isopropylbenzene	1.606	1.537	4.3	100	0.00
55 TMP Bromoform	0.269	0.255	5.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.858	0.7	100	0.00
58 TMP n-Propylbenzene	3.386	3.205	5.3	100	0.00
59 TMP Bromobenzene	0.790	0.738	6.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.324	6.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.714	2.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.557	7.0	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.896	7.7	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.209	6.2	100	0.00
65 TMP tert-Butylbenzene	2.194	2.083	5.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.412	6.3	100	0.00
67 TMP sec-Butylbenzene	3.160	3.017	4.5	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.620	3.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.359	7.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.392	7.1	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.307	4.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.153	3.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.924	5.5	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.515	0.2	100	0.00
75 TMP Naphthalene	2.401	2.244	6.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.846	4.4	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	43532	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	34868	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19084	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11625	10.133	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.30%	
30) 1,2-Dichloroethane-d4	4.36	102	2624	10.112	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	101.10%	
35) Toluene-d8	5.98	98	42947	10.114	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	101.10%	
57) 4-Bromofluorobenzene	8.38	95	16370	9.928	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	99.30%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	61092	19.723	ppb		96
5) Chloromethane	1.22	50	71971	19.290	ppb		98
6] Vinyl chloride	1.29	62	64585	19.864	ppb		92
7) Bromomethane	1.53	94	36028	19.453	ppb		69
8] Chloroethane	1.60	64	28912	20.035	ppb		84
9) Trichlorofluoromethane	1.77	101	74856	19.124	ppb		78
10) 2-Propanol	2.39	45	276	No Calib			
11) Acetone	2.26	58	12579	92.609	ppb	#	86
12] 1,1-Dichloroethene	2.19	96	21140	19.649	ppb		93
13) Hexane	3.05	57	36154	19.637	ppb		94
14) Methylene chloride	2.61	84	23449	19.864	ppb		86
15) t-Butyl alcohol (TBA)	2.73	59	18721	92.949	ppb		99
16] Methyl t-butyl ether (...)	2.84	73	65598	20.384	ppb		95
17] trans-1,2-Dichloroethene	2.83	96	23671	20.378	ppb		97
18) Diisopropyl ether (DIPE)	3.24	45	77143	18.603	ppb		100
19] 1,1-Dichloroethane	3.18	63	43299	20.002	ppb		99
20) Ethyl t-butyl ether (E...)	3.55	87	26132	19.533	ppb		94
21) 2,2-Dichloropropane	3.67	77	28355	21.356	ppb		89
22] cis-1,2-Dichloroethene	3.67	96	25297	19.907	ppb		99
23) Chloroform	3.94	83	39895	19.232	ppb		92
24) 2-Butanone (MEK)	3.70	43	72563	101.636	ppb		96
25) t-Amyl methyl ether (T...)	4.49	73	61962	19.270	ppb		97
26] 1,2-Dichloroethane (EDC)	4.41	62	34034	19.892	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	39310	19.496	ppb		99
28) 1,1-Dichloropropene	4.22	75	31132	19.422	ppb		93
29) Carbon tetrachloride	4.21	117	32861	19.060	ppb		98
31] Benzene	4.39	78	85989	19.518	ppb		99
32] Trichloroethene	4.93	95	27711	20.002	ppb		99
33) 1,2-Dichloropropane	5.13	63	24588	17.940	ppb		100
34) Bromodichloromethane	5.37	83	30612	18.740	ppb		98
36) Dibromomethane	5.23	93	14589	18.482	ppb	#	74

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

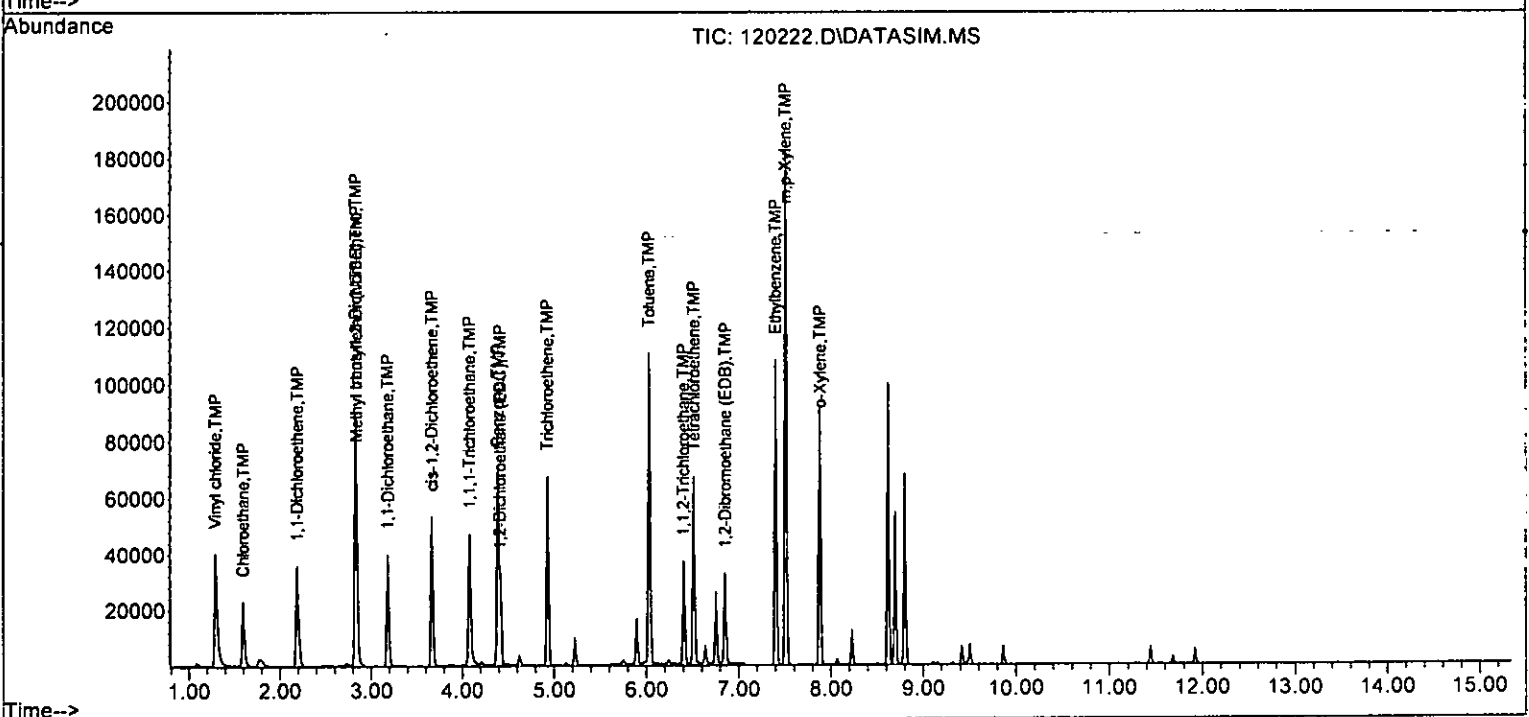
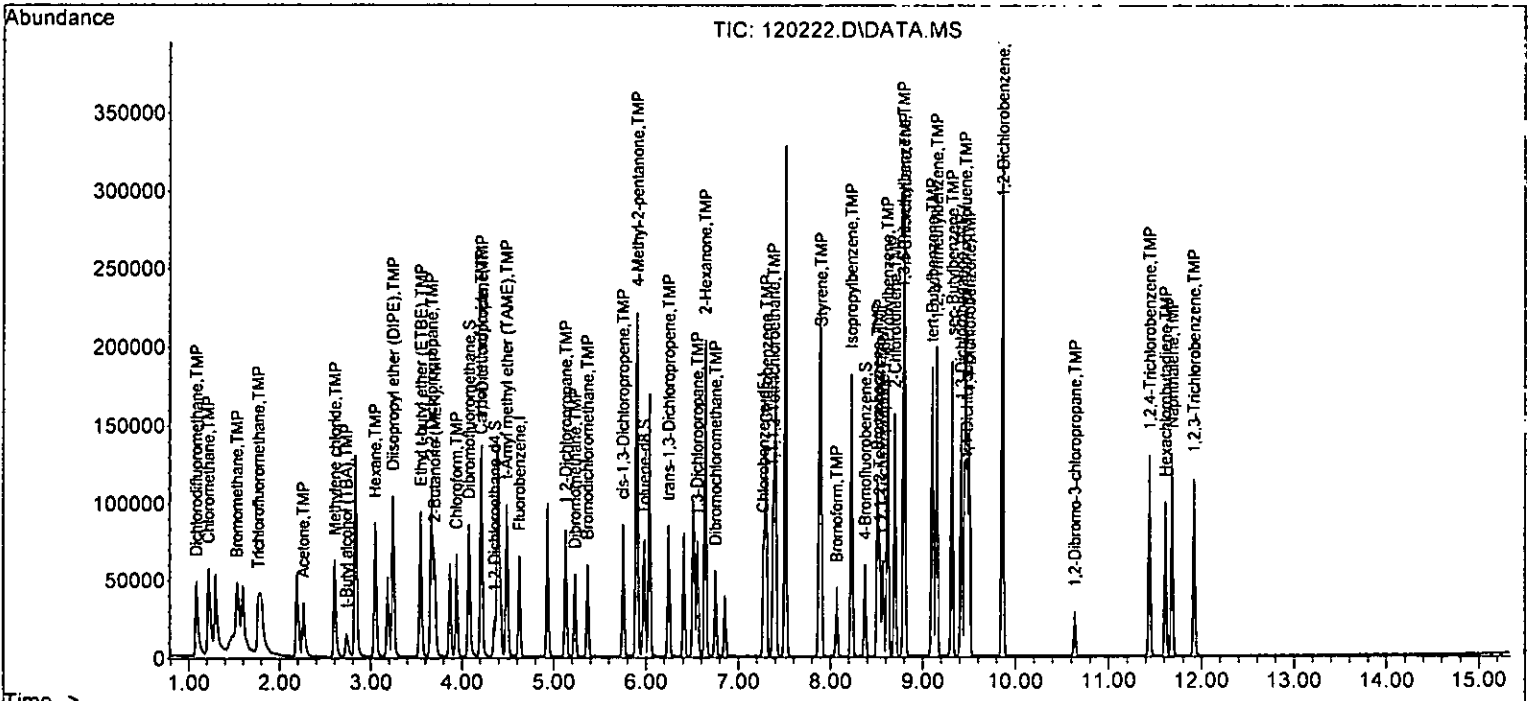
Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Oval Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	22882	97.075	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	35969	18.649	ppb	95
40] Toluene	6.03	92	58980	19.624	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	34060	19.243	ppb	94
42] 1,1,2-Trichloroethane	6.40	83	18541	19.237	ppb	99
43) 2-Hexanone	6.64	43	107056	98.546	ppb	98
44) 1,3-Dichloropropane	6.55	76	32316	19.134	ppb	94
45] Tetrachloroethene	6.51	164	22309	19.413	ppb	99
46) Dibromochloromethane	6.75	129	24637	19.297	ppb	100
47] 1,2-Dibromoethane (ED8)	6.85	107	22097	19.654	ppb	99
48) Chlorobenzene	7.30	112	62831	18.826	ppb	98
49] Ethylbenzene	7.40	91	113136	20.297	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	23722	18.994	ppb #	79
51] m,p-Xylene	7.51	106	83303	39.009	ppb	99
52] o-Xylene	7.88	106	41094	19.602	ppb	98
53) Styrene	7.90	104	66806	19.080	ppb	92
54) Isopropylbenzene	8.23	105	107154	19.133	ppb	92
55) Bromoform	8.07	173	17810	18.984	ppb	93
58) n-Propylbenzene	8.62	91	122331	18.931	ppb	94
59) Bromobenzene	8.51	156	28172	18.698	ppb	86
60) 1,3,5-Trimethylbenzene	8.79	105	88719	18.733	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.53	83	27248	19.466	ppb	78
62) 1,2,3-Trichloropropane	8.57	75	21263	18.609	ppb	90
63) 2-Chlorotoluene	8.70	91	72370	18.460	ppb	99
64) 4-Chlorotoluene	8.81	91	84296	18.756	ppb	98
65) tert-Butylbenzene	9.10	119	79497	18.989	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	92061	18.736	ppb	100
67) sec-Butylbenzene	9.32	105	115158	19.097	ppb	96
68) p-Isopropyltoluene	9.46	119	99996	19.361	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	51877	18.505	ppb	95
70) 1,4-Dichlorobenzene	9.50	146	53117	18.585	ppb	96
71) 1,2-Dichlorobenzene	9.86	146	49890	19.213	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.64	75	5831	19.320	ppb	94
73) 1,2,4-Trichlorobenzene	11.44	180	35252	18.879	ppb	95
74) Hexachlorobutadiene	11.61	225	19644	19.965	ppb	89
75) Naphthalene	11.68	128	85647	18.689	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	32300	19.114	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-0.02
3 S Dibromofluoromethane	10.000	9.881	1.2	100	0.00
4 TMP Dichlorodifluoromethane	50.000	51.003	-2.0	100	0.00
5 TMP Chloromethane	50.000	50.099	-0.2	100	0.00
6 TMP Vinyl chloride	50.000	50.837	-1.7	100	0.00
7 TMP Bromomethane	50.000	51.025	-2.0	100	0.00
8 TMP Chloroethane	50.000	53.741	-7.5	100	-0.02
9 TMP Trichlorofluoromethane	50.000	49.215	1.6	100	-0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	250.000	231.545	7.4	100	-0.02
12 TMP 1,1-Dichloroethene	50.000	51.092	-2.2	100	0.00
13 TMP Hexane	50.000	50.423	-0.8	100	0.00
14 TMP Methylene chloride	50.000	50.301	-0.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	250.000	245.809	1.7	100	-0.02
16 TMP Methyl t-butyl ether (MTBE)	50.000	51.055	-2.1	100	0.00
17 TMP trans-1,2-Dichloroethene	50.000	50.934	-1.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	50.000	47.300	5.4	100	0.00
19 TMP 1,1-Dichloroethane	50.000	51.069	-2.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	50.000	49.440	1.1	100	0.00
21 TMP 2,2-Dichloropropane	50.000	53.753	-7.5	100	0.00
22 TMP cis-1,2-Dichloroethene	50.000	50.551	-1.1	100	0.00
23 TMP Chloroform	50.000	48.941	2.1	100	0.00
24 TMP 2-Butanone (MEK)	250.000	240.961	3.6	100	0.00
25 TMP t-Amyl methyl ether (TAME)	50.000	48.304	3.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	50.000	50.680	-1.4	100	0.00
27 TMP 1,1,1-Trichloroethane	50.000	49.880	0.2	100	0.00
28 TMP 1,1-Dichloropropene	50.000	49.985	0.0	100	0.00
29 TMP Carbon tetrachloride	50.000	49.903	0.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.541	-5.4	100	0.00
31 TMP Benzene	50.000	49.692	0.6	100	0.00
32 TMP Trichloroethene	50.000	48.829	2.3	100	0.00
33 TMP 1,2-Dichloropropane	50.000	46.613	6.8	100	0.00
34 TMP Bromodichloromethane	50.000	48.415	3.2	100	0.00
35 S Toluene-d8	10.000	10.156	-1.6	100	0.00
36 TMP Dibromomethane	50.000	48.548	2.9	100	0.00
37 TMP 4-Methyl-2-pentanone	250.000	244.069	2.4	100	-0.01
38 TMP cis-1,3-Dichloropropene	50.000	49.025	2.0	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	50.000	49.751	0.5	100	0.00
41 TMP trans-1,3-Dichloropropene	50.000	50.284	-0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	50.000	49.606	0.8	100	0.00
43 TMP 2-Hexanone	250.000	244.630	2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	50.000	48.945	2.1	100	0.00
45 TMP Tetrachloroethene	50.000	49.735	0.5	100	0.00
46 TMP Dibromochloromethane	50.000	50.563	-1.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	50.000	50.558	-1.1	100	0.00
48 TMP Chlorobenzene	50.000	48.540	2.9	100	0.00
49 TMP Ethylbenzene	50.000	51.005	-2.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	50.000	49.093	1.8	100	0.00
51 TMP m,p-Xylene	100.000	97.907	2.1	100	0.00
52 TMP o-Xylene	50.000	49.094	1.8	100	0.00
53 TMP Styrene	50.000	48.659	2.7	100	0.00
54 TMP Isopropylbenzene	50.000	47.951	4.1	100	0.00
55 TMP Bromoform	50.000	48.399	3.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	10.000	9.748	2.5	100	0.00
58 TMP n-Propylbenzene	50.000	49.444	1.1	100	0.00
59 TMP Bromobenzene	50.000	49.118	1.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	50.000	48.005	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	50.000	53.244	-6.5	100	0.00
62 TMP 1,2,3-Trichloropropane	50.000	49.462	1.1	100	0.00
63 TMP 2-Chlorotoluene	50.000	47.317	5.4	100	0.00
64 TMP 4-Chlorotoluene	50.000	47.663	4.7	100	0.00
65 TMP tert-Butylbenzene	50.000	49.178	1.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	50.000	47.900	4.2	100	0.00
67 TMP sec-Butylbenzene	50.000	49.606	0.8	100	0.00
68 TMP p-Isopropyltoluene	50.000	50.215	-0.4	100	0.00
69 TMP 1,3-Dichlorobenzene	50.000	48.520	3.0	100	0.00
70 TMP 1,4-Dichlorobenzene	50.000	47.890	4.2	100	0.00
71 TMP 1,2-Dichlorobenzene	50.000	50.425	-0.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	50.000	48.924	2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	50.000	50.111	-0.2	100	0.00
74 TMP Hexachlorobutadiene	50.000	52.119	-4.2	100	0.00
75 TMP Naphthalene	50.000	48.976	2.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	50.000	50.801	-1.6	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-0.02
3 S	Dibromofluoromethane	0.264	0.260	1.5	100	0.00
4 TMP	Dichlorodifluoromethane	0.712	0.726	-2.0	100	0.00
5 TMP	Chloromethane	0.951	0.852	10.4	100	0.00
6 TMP	Vinyl chloride	0.862	0.759	11.9	100	0.00
7 TMP	Bromomethane	0.441	0.402	8.8	100	0.00
8 TMP	Chloroethane	0.341	0.355	-4.1	100	-0.02
9 TMP	Trichlorofluoromethane	0.899	0.885	1.6	100	-0.02
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.031	0.029	6.5	100	-0.02
12 TMP	1,1-Dichloroethene	0.271	0.252	7.0	100	0.00
13 TMP	Hexane	0.469	0.422	10.0	100	0.00
14 TMP	Methylene chloride	0.269	0.265	1.5	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	-0.02
16 TMP	Methyl t-butyl ether (MTBE)	0.812	0.754	7.1	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.314	0.272	13.4	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.953	0.901	5.5	100	0.00
19 TMP	1,1-Dichloroethane	0.547	0.508	7.1	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.307	0.304	1.0	100	0.00
21 TMP	2,2-Dichloropropane	0.347	0.326	6.1	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.329	0.295	10.3	100	0.00
23 TMP	Chloroform	0.477	0.466	2.3	100	0.00
24 TMP	2-Butanone (MEK)	0.173	0.157	9.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.739	0.714	3.4	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.479	0.398	16.9	100	0.00
27 TMP	1,1,1-Trichloroethane	0.494	0.462	6.5	100	0.00
28 TMP	1,1-Dichloropropene	0.368	0.368	0.0	100	0.00
29 TMP	Carbon tetrachloride	0.396	0.395	0.3	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.063	-5.0	100	0.00
31 TMP	Benzene	1.103	1.000	9.3	100	0.00
32 TMP	Trichloroethene	0.368	0.311	15.5	100	0.00
33 TMP	1,2-Dichloropropane	0.315	0.294	6.7	100	0.00
34 TMP	Bromodichloromethane	0.375	0.363	3.2	100	0.00
35 S	Toluene-d8	0.975	0.991	-1.6	100	0.00
36 TMP	Dibromomethane	0.181	0.176	2.8	100	0.00
37 TMP	4-Methyl-2-pentanone	0.054	0.053	1.9	100	-0.01
38 TMP	cis-1,3-Dichloropropene	0.443	0.434	2.0	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.986	0.857	13.1	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.508	0.511	-0.6	100	0.00
42 TMP	1,1,2-Trichloroethane	0.285	0.273	4.2	100	0.00
43 TMP	2-Hexanone	0.312	0.305	2.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.474	2.1	100	0.00
45 TMP Tetrachloroethene	0.420	0.326	22.4#	100	0.00
46 TMP Dibromochloromethane	0.366	0.370	-1.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.326	14.0	100	0.00
48 TMP Chlorobenzene	0.957	0.929	2.9	100	0.00
49 TMP Ethylbenzene	1.885	1.629	13.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.352	1.7	100	0.00
51 TMP m,p-Xylene	0.705	0.599	15.0	100	0.00
52 TMP o-Xylene	0.683	0.590	13.6	100	0.00
53 TMP Styrene	1.004	0.977	2.7	100	0.00
54 TMP Isopropylbenzene	1.606	1.540	4.1	100	0.00
55 TMP Bromoform	0.269	0.260	3.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.842	2.5	100	0.00
58 TMP n-Propylbenzene	3.386	3.348	1.1	100	0.00
59 TMP Bromobenzene	0.790	0.776	1.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.383	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.781	-6.5	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.592	1.2	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.944	5.4	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.245	4.7	100	0.00
65 TMP tert-Butylbenzene	2.194	2.158	1.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.467	4.2	100	0.00
67 TMP sec-Butylbenzene	3.160	3.135	0.8	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.718	-0.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.426	2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.434	4.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.372	-0.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.155	1.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.981	-0.3	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.537	-4.1	100	0.00
75 TMP Naphthalene	2.401	2.352	2.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.900	-1.7	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	42665	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	34502	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	18362	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	11110	9.881	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.80%
30) 1,2-Dichloroethane-d4	4.35	102	2681	10.541	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	105.40%
35) Toluene-d8	5.98	98	42264	10.156	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	101.60%
57) 4-Bromofluorobenzene	8.38	95	15466	9.748	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	97.50%
Target Compounds						
2) Ethanol	1.85	45	63	No Calib		Qvalue
4) Dichlorodifluoromethane	1.08	85	154838	51.003	ppb	100
5) Chloromethane	1.22	50	181760	50.099	ppb	100
6] Vinyl chloride	1.29	62	161848	50.837	ppb	95
7) Bromomethane	1.53	94	85862	51.025	ppb	66
8] Chloroethane	1.59	64	75807	53.741	ppb	82
9) Trichlorofluoromethane	1.76	101	188805	49.215	ppb	71
10) 2-Propanol	2.40	45	494	No Calib		
11) Acetone	2.25	58	30824	231.545	ppb	87
12] 1,1-Dichloroethene	2.18	96	53843	51.092	ppb	89
13) Hexane	3.05	57	90084	50.423	ppb	93
14) Methylene chloride	2.60	84	56562	50.301	ppb	85
15) t-Butyl alcohol (TBA)	2.72	59	48523	245.809	ppb	97
16] Methyl t-butyl ether (...)	2.83	73	160937	51.055	ppb	97
17] trans-1,2-Dichloroethene	2.82	96	57927	50.934	ppb	91
18) Diisopropyl ether (DIPE)	3.24	45	192240	47.300	ppb	98
19] 1,1-Dichloroethane	3.17	63	108283	51.069	ppb	96
20) Ethyl t-butyl ether (E...)	3.54	87	64824	49.440	ppb	95
21) 2,2-Dichloropropane	3.66	77	69591	53.753	ppb	94
22] cis-1,2-Dichloroethene	3.66	96	62912	50.551	ppb	90
23) Chloroform	3.94	83	99500	48.941	ppb	91
24) 2-Butanone (MEK)	3.70	43	167074	240.961	ppb	98
25) t-Amyl methyl ether (T...)	4.49	73	152224	48.304	ppb	98
26] 1,2-Dichloroethane (EDC)	4.41	62	84876	50.680	ppb	99
27] 1,1,1-Trichloroethane	4.08	97	98529	49.880	ppb	97
28) 1,1-Dichloropropene	4.21	75	78525	49.985	ppb	92
29) Carbon tetrachloride	4.21	117	84324	49.903	ppb	96
31] Benzene	4.39	78	213267	49.692	ppb	98
32] Trichloroethene	4.93	95	66242	48.829	ppb	95
33) 1,2-Dichloropropane	5.13	63	62615	46.613	ppb	100
34) Bromodichloromethane	5.37	83	77513	48.415	ppb	96
36) Dibromomethane	5.22	93	37560	48.548	ppb	86



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

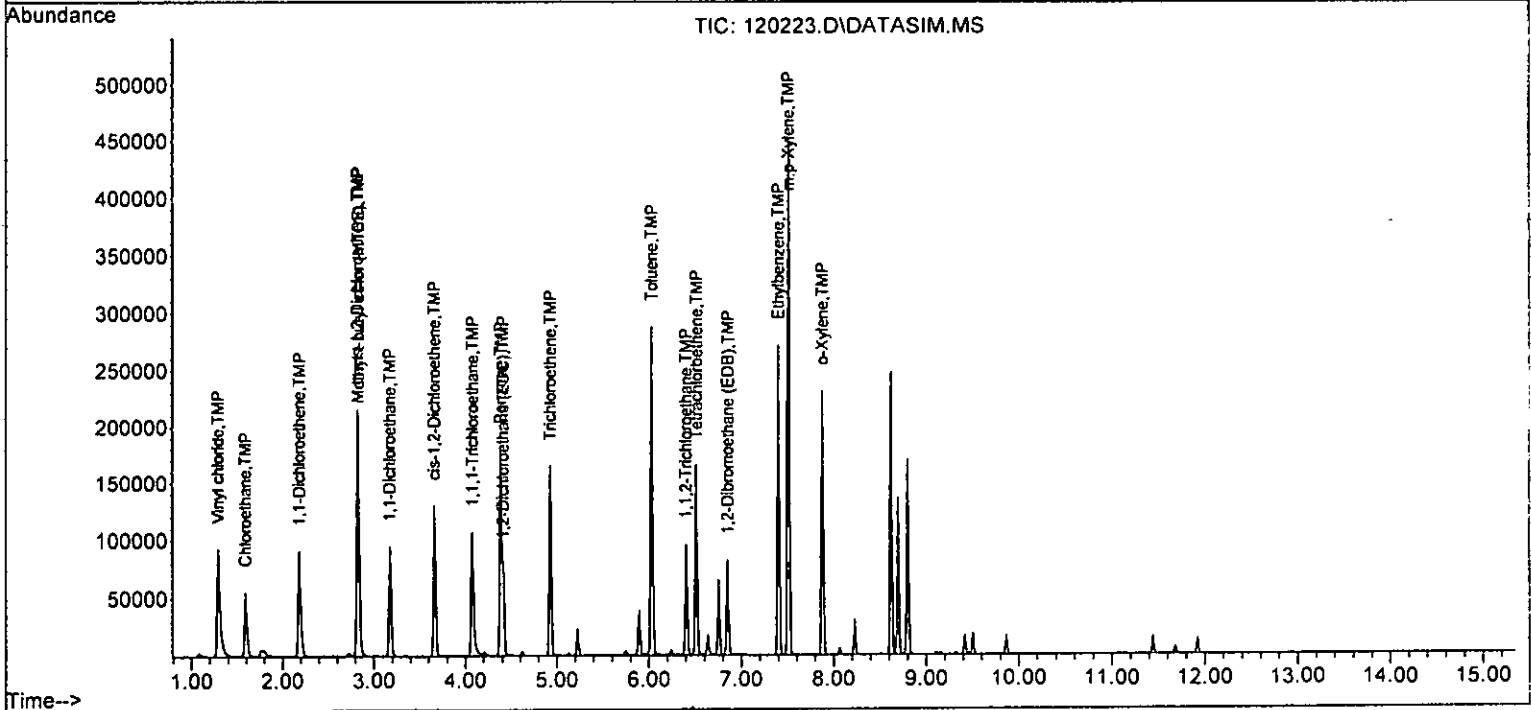
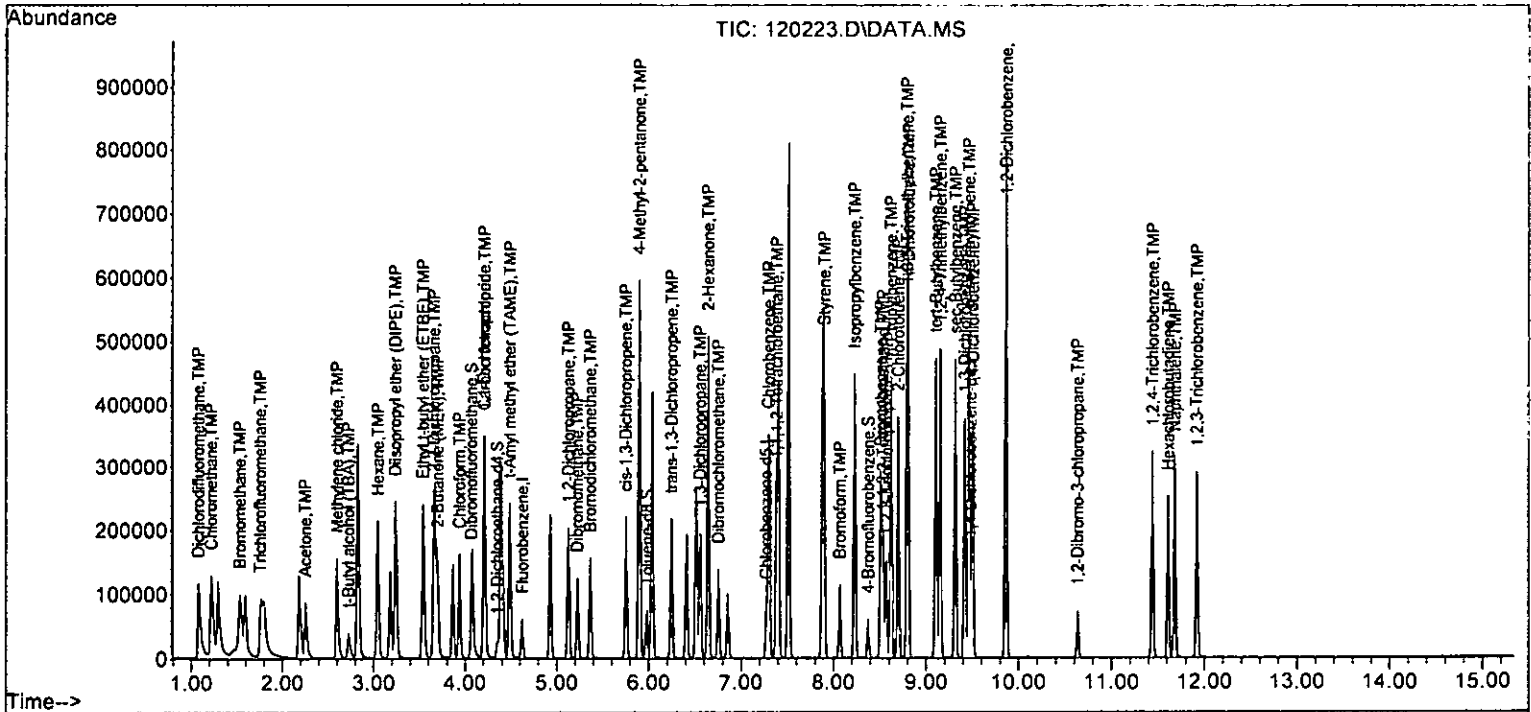
Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.90	85	56385	244.069	ppb	94
38) cis-1,3-Dichloropropene	5.75	75	92673	49.025	ppb	95
40] Toluene	6.03	92	147836	49.751	ppb	98
41) trans-1,3-Dichloropropene	6.25	75	88068	50.284	ppb	91
42] 1,1,2-Trichloroethane	6.40	83	47013	49.606	ppb	97
43) 2-Hexanone	6.64	43	262965	244.630	ppb	98
44) 1,3-Dichloropropane	6.55	76	81797	48.945	ppb	98
45] Tetrachloroethene	6.51	164	56240	49.735	ppb	99
46) Dibromochloromethane	6.75	129	63876	50.563	ppb	94
47] 1,2-Dibromoethane (EDB)	6.85	107	56187	50.558	ppb	99
48) Chlorobenzene	7.29	112	160305	48.540	ppb	99
49] Ethylbenzene	7.40	91	281033	51.005	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.38	131	60668	49.093	ppb #	78
51] m,p-Xylene	7.51	106	206698	97.907	ppb	99
52] o-Xylene	7.88	106	101758	49.094	ppb #	65
53) Styrene	7.90	104	168583	48.659	ppb	94
54) Isopropylbenzene	8.23	105	265731	47.951	ppb	97
55) Bromoform	8.07	173	44930	48.399	ppb	95
58) n-Propylbenzene	8.62	91	307417	49.444	ppb	91
59) Bromobenzene	8.51	156	71207	49.118	ppb	83
60) 1,3,5-Trimethylbenzene	8.79	105	218746	48.005	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.53	83	71708	53.244	ppb	80
62) 1,2,3-Trichloropropane	8.57	75	54378	49.462	ppb	90
63) 2-Chlorotoluene	8.70	91	178478	47.317	ppb	99
64) 4-Chlorotoluene	8.81	91	206104	47.663	ppb	96
65) tert-Butylbenzene	9.10	119	198092	49.178	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	226454	47.900	ppb	98
67) sec-Butylbenzene	9.31	105	287819	49.606	ppb	97
68) p-Isopropyltoluene	9.46	119	249537	50.215	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	130878	48.520	ppb	89
70) 1,4-Dichlorobenzene	9.50	146	131694	47.890	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	125983	50.425	ppb	91
72) 1,2-Dibromo-3-chloropr...	10.63	75	14207	48.924	ppb	97
73) 1,2,4-Trichlorobenzene	11.44	180	90030	50.111	ppb	98
74) Hexachlorobutadiene	11.61	225	49341	52.119	ppb	96
75) Naphthalene	11.68	128	215957	48.976	ppb	100
76) 1,2,3-Trichlorobenzene	11.92	180	82598	50.801	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

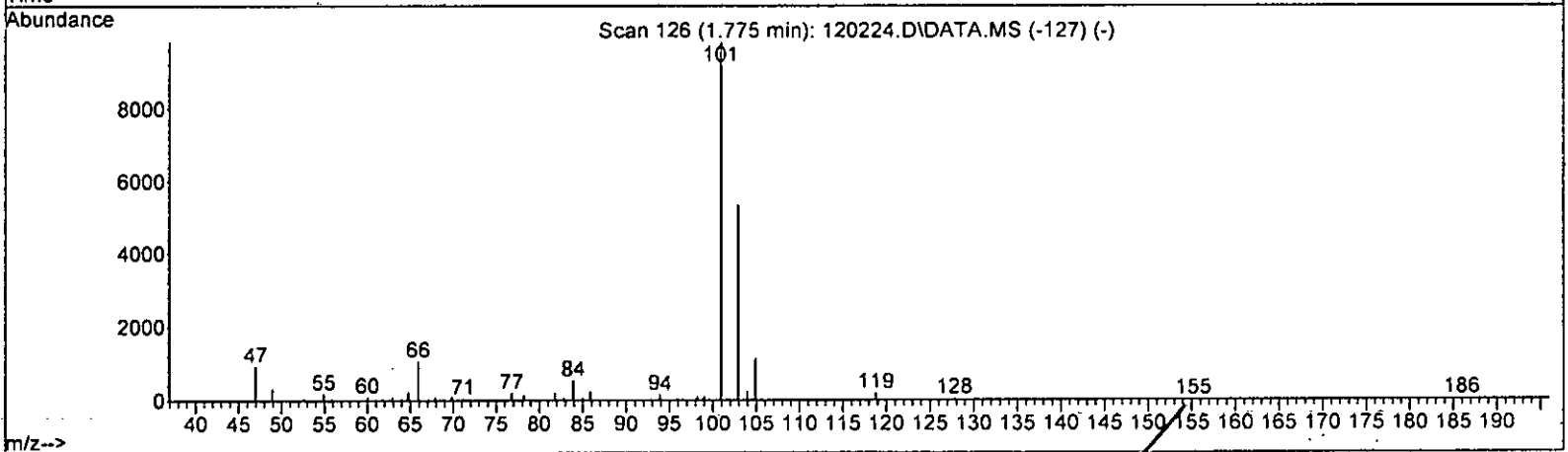
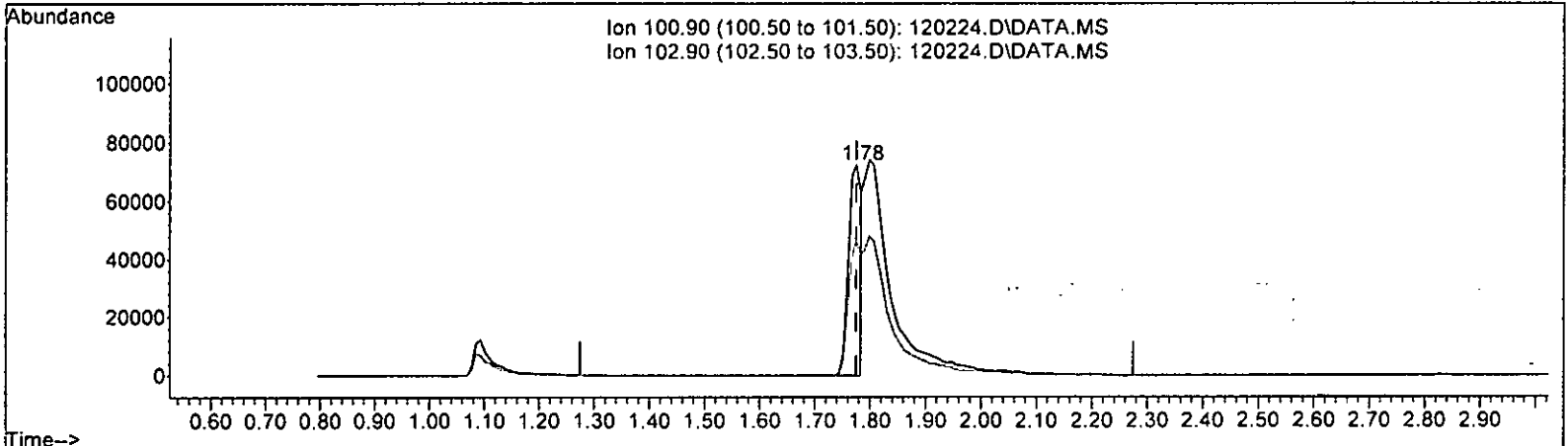
Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120224.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.775min (+ 0.000) 31.106 ppb

response 114704

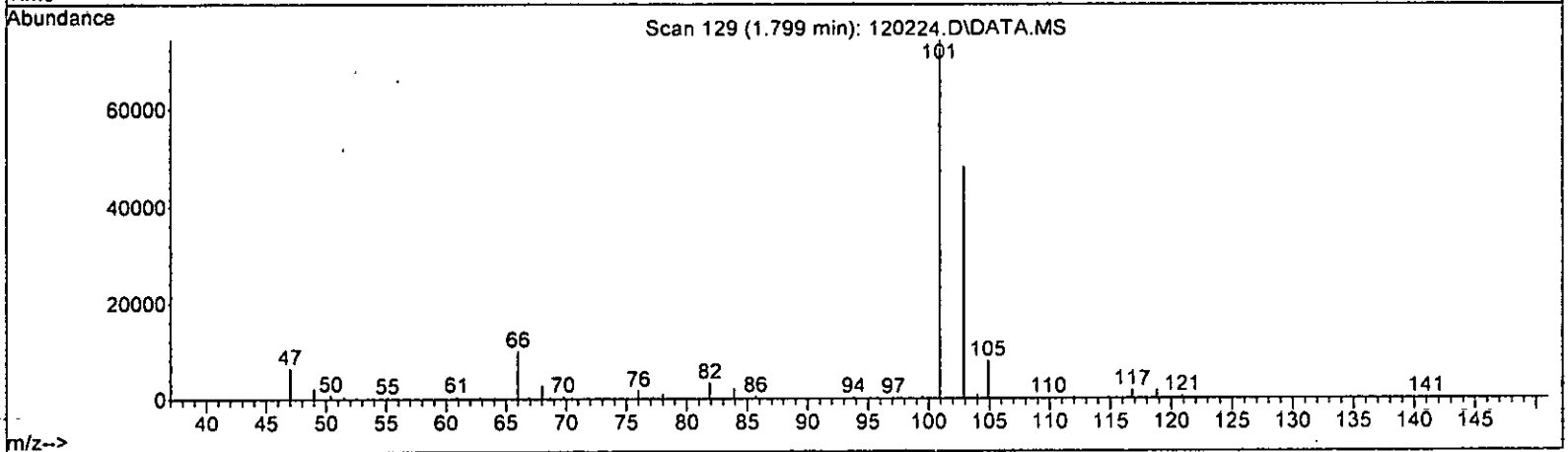
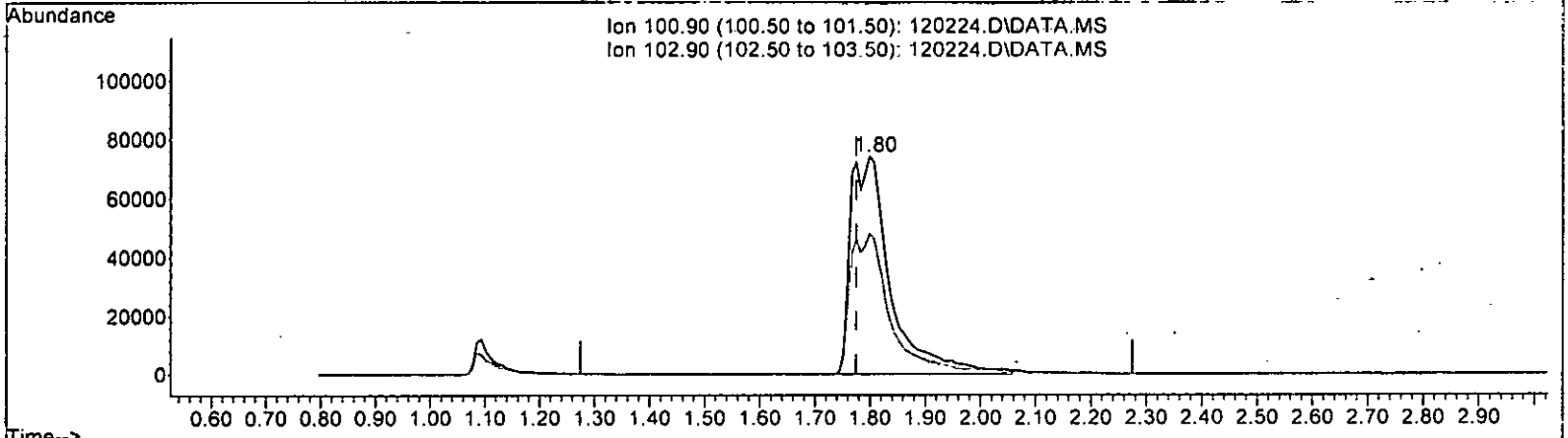
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.58
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120224.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.799min (+ 0.024) 100.346 ppb m

response 370024

Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.94
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.368	-3.7	100	0.00
4 TMP Dichlorodifluoromethane	100.000	104.751	-4.8	100	0.00
5 TMP Chloromethane	100.000	102.638	-2.6	100	0.00
6 TMP Vinyl chloride	100.000	103.206	-3.2	100	0.00
7 TMP Bromomethane	100.000	106.405	-6.4	100	0.00
8 TMP Chloroethane	100.000	109.608	-9.6	100	0.00
9 TMP Trichlorofluoromethane	100.000	100.346	-0.3	95	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	500.000	501.847	-0.4	100	0.00
12 TMP 1,1-Dichloroethene	100.000	103.069	-3.1	100	0.00
13 TMP Hexane	100.000	102.886	-2.9	100	0.00
14 TMP Methylene chloride	100.000	101.190	-1.2	100	0.00
15 TMP t-Butyl alcohol (TBA)	500.000	483.241	3.4	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	100.000	102.758	-2.8	100	0.00
17 TMP trans-1,2-Dichloroethene	100.000	102.530	-2.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	100.000	95.426	4.6	100	0.00
19 TMP 1,1-Dichloroethane	100.000	103.089	-3.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	100.000	103.243	-3.2	100	0.00
21 TMP 2,2-Dichloropropane	100.000	99.782	0.2	100	0.00
22 TMP cis-1,2-Dichloroethene	100.000	101.961	-2.0	100	0.00
23 TMP Chloroform	100.000	98.367	1.6	100	0.00
24 TMP 2-Butanone (MEK)	500.000	515.470	-3.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	100.000	96.892	3.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	100.000	102.330	-2.3	100	0.00
27 TMP 1,1,1-Trichloroethane	100.000	102.115	-2.1	100	0.00
28 TMP 1,1-Dichloropropene	100.000	99.832	0.2	100	0.00
29 TMP Carbon tetrachloride	100.000	101.146	-1.1	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.482	5.2	100	0.00
31 TMP Benzene	100.000	101.544	-1.5	100	0.00
32 TMP Trichloroethene	100.000	103.300	-3.3	100	0.00
33 TMP 1,2-Dichloropropane	100.000	94.860	5.1	100	0.00
34 TMP Bromodichloromethane	100.000	99.757	0.2	100	0.00
35 S Toluene-d8	10.000	10.383	-3.8	100	0.00
36 TMP Dibromomethane	100.000	98.148	1.9	100	0.00
37 TMP 4-Methyl-2-pentanone	500.000	500.578	-0.1	100	0.00
38 TMP cis-1,3-Dichloropropene	100.000	100.781	-0.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	100.000	100.906	-0.9	100	0.00
41 TMP trans-1,3-Dichloropropene	100.000	99.427	0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	100.000	101.808	-1.8	100	0.00
43 TMP 2-Hexanone	500.000	481.832	3.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	100.000	99.822	0.2	100	0.00
45 TMP Tetrachloroethene	100.000	101.524	-1.5	100	0.00
46 TMP Dibromochloromethane	100.000	104.869	-4.9	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	100.000	101.797	-1.8	100	0.00
48 TMP Chlorobenzene	100.000	98.243	1.8	100	0.00
49 TMP Ethylbenzene	100.000	102.729	-2.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	100.000	99.834	0.2	100	0.00
51 TMP m,p-Xylene	200.000	197.727	1.1	100	0.00
52 TMP o-Xylene	100.000	99.565	0.4	100	0.00
53 TMP Styrene	100.000	97.518	2.5	100	0.00
54 TMP Isopropylbenzene	100.000	97.020	3.0	100	0.00
55 TMP Bromoform	100.000	100.841	-0.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.245	-2.4	100	0.00
58 TMP n-Propylbenzene	100.000	97.423	2.6	100	0.00
59 TMP Bromobenzene	100.000	97.640	2.4	100	0.00
60 TMP 1,3,5-Trimethylbenzene	100.000	96.173	3.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	100.000	98.821	1.2	100	0.00
62 TMP 1,2,3-Trichloropropane	100.000	99.167	0.8	100	0.00
63 TMP 2-Chlorotoluene	100.000	92.739	7.3	100	0.00
64 TMP 4-Chlorotoluene	100.000	95.976	4.0	100	0.00
65 TMP tert-Butylbenzene	100.000	98.528	1.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	100.000	96.194	3.8	100	0.00
67 TMP sec-Butylbenzene	100.000	98.955	1.0	100	0.00
68 TMP p-Isopropyltoluene	100.000	101.863	-1.9	100	0.00
69 TMP 1,3-Dichlorobenzene	100.000	96.196	3.8	100	0.00
70 TMP 1,4-Dichlorobenzene	100.000	95.835	4.2	100	0.00
71 TMP 1,2-Dichlorobenzene	100.000	100.357	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	100.000	102.067	-2.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	100.000	103.665	-3.7	100	0.00
74 TMP Hexachlorobutadiene	100.000	103.045	-3.0	100	0.00
75 TMP Naphthalene	100.000	101.613	-1.6	100	0.00
76 TMP 1,2,3-Trichlorobenzene	100.000	103.391	-3.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	#	-1.86#
3 S Dibromofluoromethane	0.264	0.273	-3.4	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.745	-4.6	100	0.00
5 TMP Chloromethane	0.951	0.871	8.4	100	0.00
6 TMP Vinyl chloride	0.862	0.770	10.7	100	0.00
7 TMP Bromomethane	0.441	0.409	7.3	100	0.00
8 TMP Chloroethane	0.341	0.362	-6.2	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.902	-0.3	95	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	#	0.00
11 TMP Acetone	0.031	0.031	0.0	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.255	5.9	100	0.00
13 TMP Hexane	0.469	0.429	8.5	100	0.00
14 TMP Methylene chloride	0.269	0.262	2.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.759	6.5	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.273	13.1	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.909	4.6	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.512	6.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.317	-3.3	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.302	13.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.297	9.7	100	0.00
23 TMP Chloroform	0.477	0.469	1.7	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.167	3.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.716	3.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.402	16.1	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.473	4.3	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.368	0.0	100	0.00
29 TMP Carbon tetrachloride	0.396	0.401	-1.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.057	5.0	100	0.00
31 TMP Benzene	1.103	1.012	8.3	100	0.00
32 TMP Trichloroethene	0.368	0.328	10.9	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.299	5.1	100	0.00
34 TMP Bromodichloromethane	0.375	0.374	0.3	100	0.00
35 S Toluene-d8	0.975	1.013	-3.9	100	0.00
36 TMP Dibromomethane	0.181	0.178	1.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.054	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.447	-0.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.869	11.9	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.505	0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.277	2.8	100	0.00
43 TMP 2-Hexanone	0.312	0.300	3.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-45  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.484	0.0	100	0.00
45 TMP Tetrachloroethene	0.420	0.330	21.4#	100	0.00
46 TMP Dibromochloromethane	0.366	0.384	-4.9	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.328	13.5	100	0.00
48 TMP Chlorobenzene	0.957	0.940	1.8	100	0.00
49 TMP Ethylbenzene	1.885	1.640	13.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.358	0.0	100	0.00
51 TMP m,p-Xylene	0.705	0.605	14.2	100	0.00
52 TMP o-Xylene	0.683	0.598	12.4	100	0.00
53 TMP Styrene	1.004	0.979	2.5	100	0.00
54 TMP Isopropylbenzene	1.606	1.558	3.0	100	0.00
55 TMP Bromoform	0.269	0.271	-0.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.885	-2.4	100	0.00
58 TMP n-Propylbenzene	3.386	3.299	2.6	100	0.00
59 TMP Bromobenzene	0.790	0.771	2.4	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.387	3.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.725	1.1	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.594	0.8	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.905	7.3	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.260	4.0	100	0.00
65 TMP tert-Butylbenzene	2.194	2.161	1.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.477	3.8	100	0.00
67 TMP sec-Butylbenzene	3.160	3.127	1.0	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.757	-1.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.413	3.8	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.435	4.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.366	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.161	-1.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	1.014	-3.7	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.531	-2.9	100	0.00
75 TMP Naphthalene	2.401	2.440	-1.6	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.915	-3.4	100	0.00

(#) = Out of Range

5PCC's out = 1 CCC's out = 0



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	41010	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	33336	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	17982	10.000	ppb	# 0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11206	10.368	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	103.70%	
30) 1,2-Dichloroethane-d4	4.36	102	2318	9.482	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	94.80%	
35) Toluene-d8	5.98	98	41534	10.383	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	103.80%	
57) 4-Bromofluorobenzene	8.38	95	15918	10.245	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	102.50%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	305673	104.751	ppb		96
5) Chloromethane	1.23	50	357020	102.638	ppb		99
6] Vinyl chloride	1.30	62	315732	103.206	ppb		93
7) Bromomethane	1.55	94	167764	106.405	ppb		65
8] Chloroethane	1.61	64	148497	109.608	ppb		83
9) Trichlorofluoromethane	1.80	101	370024m	100.346	ppb		
10) 2-Propanol	2.40	45	490	No Calib			
11) Acetone	2.26	58	64216	501.847	ppb	#	86
12] 1,1-Dichloroethene	2.19	96	104387	103.069	ppb		83
13) Hexane	3.06	57	176108	102.886	ppb		95
14) Methylene chloride	2.61	84	107409	101.190	ppb		83
15) t-Butyl alcohol (TBA)	2.73	59	91692	483.241	ppb		95
16] Methyl t-butyl ether (...)	2.84	73	311294	102.758	ppb		96
17] trans-1,2-Dichloroethene	2.83	96	112046	102.530	ppb		91
18) Diisopropyl ether (DIPE)	3.24	45	372796	95.426	ppb		99
19] 1,1-Dichloroethane	3.18	63	210066	103.089	ppb		97
20) Ethyl t-butyl ether (E...)	3.55	87	130118	103.243	ppb		88
21) 2,2-Dichloropropane	3.67	77	123978	99.782	ppb		90
22] cis-1,2-Dichloroethene	3.67	96	121941	101.961	ppb		95
23) Chloroform	3.95	83	192230	98.367	ppb		91
24) 2-Butanone (MEK)	3.70	43	342320	515.470	ppb		98
25) t-Amyl methyl ether (T...)	4.49	73	293501	96.892	ppb		97
26] 1,2-Dichloroethane (EDC)	4.42	62	164660	102.330	ppb		96
27] 1,1,1-Trichloroethane	4.08	97	193860	102.115	ppb		97
28) 1,1-Dichloropropene	4.22	75	150749	99.832	ppb		92
29) Carbon tetrachloride	4.22	117	164281	101.146	ppb		95
31] Benzene	4.39	78	414855	101.544	ppb		93
32] Trichloroethene	4.93	95	134660	103.300	ppb		95
33) 1,2-Dichloropropane	5.13	63	122481	94.860	ppb		100
34) Bromodichloromethane	5.37	83	153516	99.757	ppb		95
36) Dibromomethane	5.23	93	72988	98.148	ppb		83

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

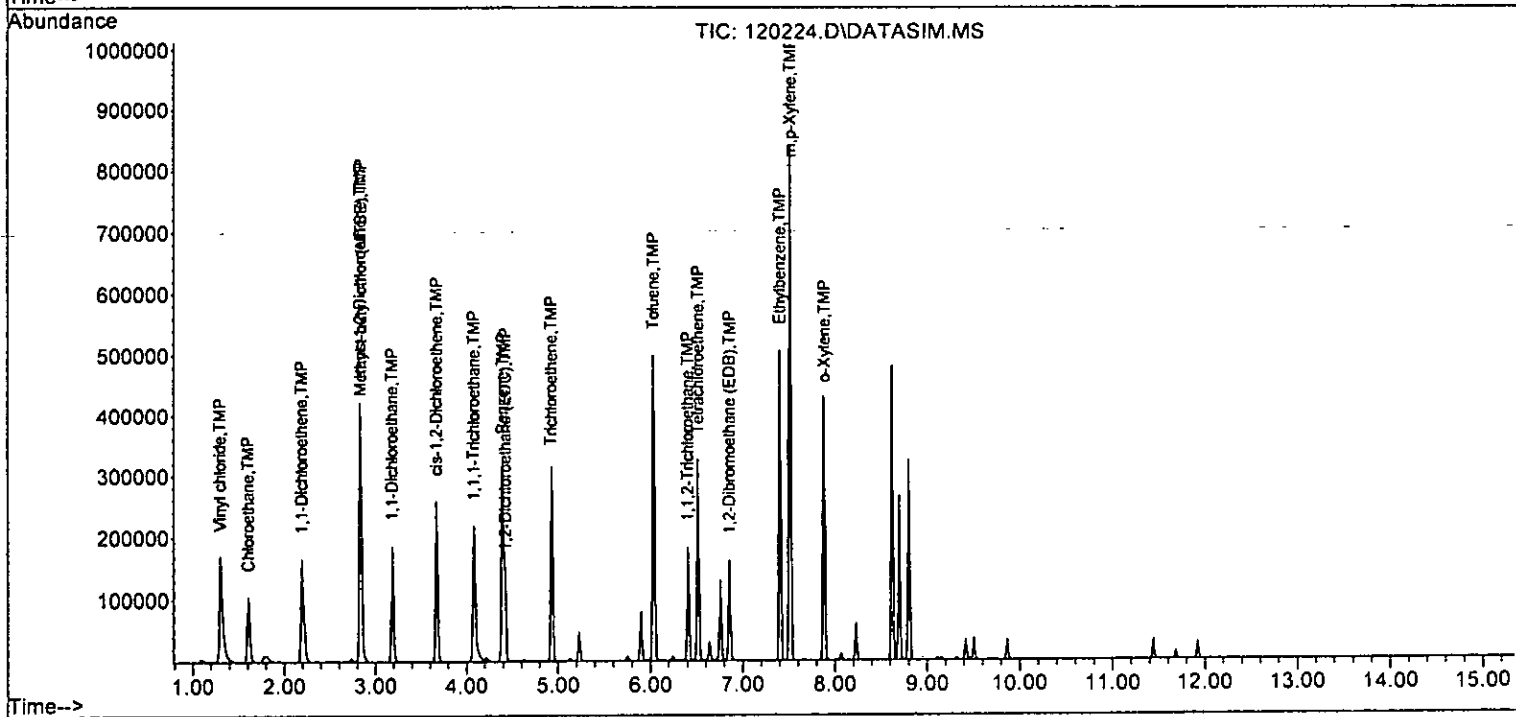
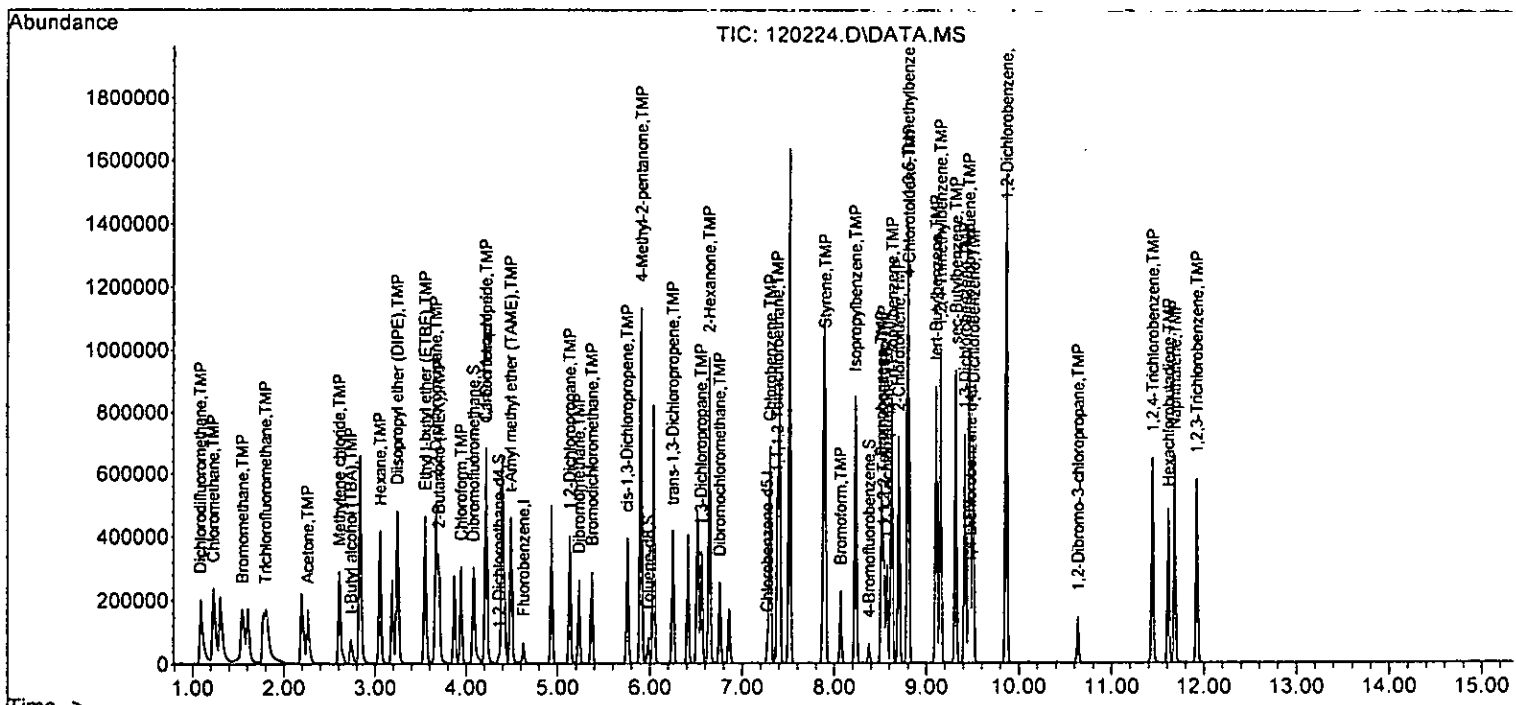
Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	111158	500.578	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	183118	100.781	ppb	95
40] Toluene	6.03	92	289629	100.906	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	168254	99.427	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	92312	101.808	ppb	98
43) 2-Hexanone	6.64	43	500442	481.832	ppb	99
44) 1,3-Dichloropropane	6.55	76	161185	99.822	ppb	97
45] Tetrachloroethene	6.51	164	110112	101.524	ppb	99
46) Dibromochloromethane	6.75	129	128004	104.869	ppb	94
47] 1,2-Dibromoethane (EDB)	6.85	107	109270	101.797	ppb	99
48) Chlorobenzene	7.30	112	313484	98.243	ppb	97
49] Ethylbenzene	7.40	91	546718	102.729	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.38	131	119204	99.834	ppb	79
51] m,p-Xylene	7.52	106	403208	197.727	ppb	# 75
52] o-Xylene	7.88	106	199345	99.565	ppb	96
53) Styrene	7.90	104	326441	97.518	ppb	95
54) Isopropylbenzene	8.23	105	519485	97.020	ppb	93
55) Bromoform	8.07	173	90450	100.841	ppb	95
58) n-Propylbenzene	8.63	91	593192	97.423	ppb	95
59) Bromobenzene	8.51	156	138620	97.640	ppb	82
60) 1,3,5-Trimethylbenzene	8.80	105	429162	96.173	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	130337	98.821	ppb	81
62) 1,2,3-Trichloropropane	8.57	75	106766	99.167	ppb	90
63) 2-Chlorotoluene	8.70	91	342569	92.739	ppb	100
64) 4-Chlorotoluene	8.81	91	406432	95.976	ppb	95
65) tert-Butylbenzene	9.10	119	388662	98.528	ppb	97
66) 1,2,4-Trimethylbenzene	9.15	105	445364	96.194	ppb	99
67) sec-Butylbenzene	9.32	105	562261	98.955	ppb	97
68) p-Isopropyltoluene	9.46	119	495718	101.863	ppb	96
69) 1,3-Dichlorobenzene	9.42	146	254108	96.196	ppb	90
70) 1,4-Dichlorobenzene	9.51	146	258086	95.835	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	245546	100.357	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.64	75	29026	102.067	ppb	97
73) 1,2,4-Trichlorobenzene	11.44	180	182390	103.665	ppb	96
74) Hexachlorobutadiene	11.61	225	95534	103.045	ppb	97
75) Naphthalene	11.68	128	438788	101.613	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	164625	103.391	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



## Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\V8120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	9.837	1.6	100	0.00
4 TMP	Dichlorodifluoromethane	150.000	150.439	-0.3	100	0.00
5 TMP	Chloromethane	150.000	148.662	0.9	100	0.00
6 TMP	Vinyl chloride	150.000	148.470	1.0	100	0.00
7 TMP	Bromomethane	150.000	149.148	0.6	100	0.00
8 TMP	Chloroethane	150.000	145.276	3.1	100	0.00
9 TMP	Trichlorofluoromethane	150.000	150.983	-0.7	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	750.000	673.219	10.2	100	0.00
12 TMP	1,1-Dichloroethene	150.000	148.339	1.1	100	0.00
13 TMP	Hexane	150.000	144.146	3.9	100	0.00
14 TMP	Methylene chloride	150.000	147.590	1.6	100	0.00
15 TMP	t-Butyl alcohol (TBA)	750.000	708.696	5.5	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	150.000	148.502	1.0	100	0.00
17 TMP	trans-1,2-Dichloroethene	150.000	148.170	1.2	100	0.00
18 TMP	Diisopropyl ether (DIPE)	150.000	136.549	9.0	100	0.00
19 TMP	1,1-Dichloroethane	150.000	148.652	0.9	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	150.000	145.642	2.9	100	0.00
21 TMP	2,2-Dichloropropane	150.000	149.632	0.2	100	0.00
22 TMP	cis-1,2-Dichloroethene	150.000	149.081	0.6	100	0.00
23 TMP	Chloroform	150.000	144.454	3.7	100	0.00
24 TMP	2-Butanone (MEK)	750.000	742.119	1.1	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	150.000	141.074	6.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	150.000	149.011	0.7	100	0.00
27 TMP	1,1,1-Trichloroethane	150.000	147.696	1.5	100	0.00
28 TMP	1,1-Dichloropropene	150.000	144.113	3.9	100	0.00
29 TMP	Carbon tetrachloride	150.000	149.994	0.0	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.988	0.1	100	0.00
31 TMP	Benzene	150.000	149.336	0.4	100	0.00
32 TMP	Trichloroethene	150.000	152.121	-1.4	100	0.00
33 TMP	1,2-Dichloropropane	150.000	138.090	7.9	100	0.00
34 TMP	Bromodichloromethane	150.000	143.954	4.0	100	0.00
35 S	Toluene-d8	10.000	10.370	-3.7	100	0.00
36 TMP	Dibromomethane	150.000	142.870	4.8	100	0.00
37 TMP	4-Methyl-2-pentanone	750.000	703.479	6.2	100	0.00
38 TMP	cis-1,3-Dichloropropene	150.000	148.105	1.3	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	150.000	148.586	0.9	100	0.00
41 TMP	trans-1,3-Dichloropropene	150.000	150.280	-0.2	100	0.00
42 TMP	1,1,2-Trichloroethane	150.000	151.262	-0.8	100	0.00
43 TMP	2-Hexanone	750.000	705.565	5.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	150.000	147.727	1.5	100	0.00
45 TMP Tetrachloroethene	150.000	150.472	-0.3	100	0.00
46 TMP Dibromochloromethane	150.000	154.579	-3.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	150.000	150.608	-0.4	100	0.00
48 TMP Chlorobenzene	150.000	146.023	2.7	100	0.00
49 TMP Ethylbenzene	150.000	150.798	-0.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	150.000	148.867	0.8	100	0.00
51 TMP m,p-Xylene	300.000	290.112	3.3	100	0.00
52 TMP o-Xylene	150.000	146.487	2.3	100	0.00
53 TMP Styrene	150.000	144.869	3.4	100	0.00
54 TMP Isopropylbenzene	150.000	143.286	4.5	100	0.00
55 TMP Bromoform	150.000	152.192	-1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.160	-1.6	100	0.00
58 TMP n-Propylbenzene	150.000	141.464	5.7	100	0.00
59 TMP Bromobenzene	150.000	145.707	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	150.000	141.197	5.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	150.000	141.457	5.7	100	0.00
62 TMP 1,2,3-Trichloropropane	150.000	145.229	3.2	100	0.00
63 TMP 2-Chlorotoluene	150.000	136.698	8.9	100	0.00
64 TMP 4-Chlorotoluene	150.000	140.218	6.5	100	0.00
65 TMP tert-Butylbenzene	150.000	145.349	3.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	150.000	142.200	5.2	100	0.00
67 TMP sec-Butylbenzene	150.000	145.425	3.0	100	0.00
68 TMP p-Isopropyltoluene	150.000	149.151	0.6	100	0.00
69 TMP 1,3-Dichlorobenzene	150.000	143.143	4.6	100	0.00
70 TMP 1,4-Dichlorobenzene	150.000	140.396	6.4	100	0.00
71 TMP 1,2-Dichlorobenzene	150.000	148.035	1.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	150.000	155.079	-3.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	150.000	154.890	-3.3	100	0.00
74 TMP Hexachlorobutadiene	150.000	150.324	-0.2	100	0.00
75 TMP Naphthalene	150.000	151.912	-1.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	150.000	156.336	-4.2	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq Dn : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.259	1.9	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	0.840	11.7	100	0.00
6 TMP Vinyl chloride	0.862	0.738	14.4	100	0.00
7 TMP Bromomethane	0.441	0.380	13.8	100	0.00
8 TMP Chloroethane	0.341	0.320	6.2	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.905	-0.7	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.028	9.7	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.244	10.0	100	0.00
13 TMP Hexane	0.469	0.401	14.5	100	0.00
14 TMP Methylene chloride	0.269	0.252	6.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.044	4.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.731	10.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.263	16.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.867	9.0	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.492	10.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.298	2.9	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.302	13.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.290	11.9	100	0.00
23 TMP Chloroform	0.477	0.459	3.8	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.160	7.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.695	6.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.390	18.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.456	7.7	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.354	3.8	100	0.00
29 TMP Carbon tetrachloride	0.396	0.396	0.0	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	1.103	0.983	10.9	100	0.00
32 TMP Trichloroethene	0.368	0.322	12.5	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.290	7.9	100	0.00
34 TMP Bromodichloromethane	0.375	0.360	4.0	100	0.00
35 S Toluene-d8	0.975	1.012	-3.8	100	0.00
36 TMP Dibromomethane	0.181	0.173	4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.051	5.6	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.437	1.4	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.853	13.5	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.509	-0.2	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.272	4.6	100	0.00
43 TMP 2-Hexanone	0.312	0.293	6.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.477	1.4	100	0.00
45 TMP Tetrachloroethene	0.420	0.324	22.9#	100	0.00
46 TMP Dibromochloromethane	0.366	0.377	-3.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.323	14.8	100	0.00
48 TMP Chlorobenzene	0.957	0.932	2.6	100	0.00
49 TMP Ethylbenzene	1.885	1.605	14.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.355	0.8	100	0.00
51 TMP m,p-Xylene	0.705	0.591	16.2	100	0.00
52 TMP o-Xylene	0.683	0.586	14.2	100	0.00
53 TMP Styrene	1.004	0.970	3.4	100	0.00
54 TMP Isopropylbenzene	1.606	1.534	4.5	100	0.00
55 TMP Bromoform	0.269	0.273	-1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.878	-1.6	100	0.00
58 TMP n-Propylbenzene	3.386	3.193	5.7	100	0.00
59 TMP Bromobenzene	0.790	0.767	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.336	5.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.692	5.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.580	3.2	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.872	8.9	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.201	6.5	100	0.00
65 TMP tert-Butylbenzene	2.194	2.126	3.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.441	5.2	100	0.00
67 TMP sec-Butylbenzene	3.160	3.063	3.1	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.691	0.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.402	4.6	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.402	6.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.343	1.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.164	-3.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	1.010	-3.3	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.517	-0.2	100	0.00
75 TMP Naphthalene	2.401	2.432	-1.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.923	-4.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	42305	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	33999	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	18471	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	10967	9.837	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	98.40%		
30) 1,2-Dichloroethane-d4	4.36	102	2519	9.988	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	99.90%		
35) Toluene-d8	5.98	98	42794	10.370	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	103.70%		
57) 4-Bromofluorobenzene	8.38	95	16215	10.160	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	101.60%		
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	452856	150.439	ppb		96
5) Chloromethane	1.22	50	533042	148.662	ppb		99
6) Vinyl chloride	1.29	62	468510	148.470	ppb		91
7) Bromomethane	1.53	94	240924	149.148	ppb	#	60
8) Chloroethane	1.60	64	202998	145.276	ppb		86
9) Trichlorofluoromethane	1.77	101	574327	150.983	ppb		66
10) 2-Propanol	2.41	45	441	No Calib			
11) Acetone	2.26	58	88865	673.219	ppb		96
12) 1,1-Dichloroethene	2.19	96	154971	148.339	ppb		96
13) Hexane	3.05	57	254294	144.146	ppb		94
14) Methylene chloride	2.61	84	159649	147.590	ppb		81
15) t-Butyl alcohol (TBA)	2.73	59	138717	708.696	ppb		98
16) Methyl t-butyl ether (...)	2.83	73	464051	148.502	ppb		99
17) trans-1,2-Dichloroethene	2.83	96	167019	148.170	ppb		99
18) Diisopropyl ether (DIPE)	3.24	45	550293	136.549	ppb		100
19) 1,1-Dichloroethane	3.18	63	312458	148.652	ppb		100
20) Ethyl t-butyl ether (E...)	3.54	87	189349	145.642	ppb		90
21) 2,2-Dichloropropane	3.67	77	191670	149.632	ppb		89
22) cis-1,2-Dichloroethene	3.67	96	183911	149.081	ppb		98
23) Chloroform	3.94	83	291209	144.454	ppb		91
24) 2-Butanone (MEK)	3.70	43	507911	742.119	ppb		97
25) t-Amyl methyl ether (T...)	4.49	73	440831	141.074	ppb		98
26) 1,2-Dichloroethane (EDC)	4.41	62	247316	149.011	ppb		100
27) 1,1,1-Trichloroethane	4.08	97	289235	147.696	ppb		99
28) 1,1-Dichloropropene	4.22	75	224486	144.113	ppb		91
29) Carbon tetrachloride	4.21	117	251313	149.994	ppb		96
31) Benzene	4.39	78	623791	149.336	ppb		98
32) Trichloroethene	4.93	95	204544	152.121	ppb		99
33) 1,2-Dichloropropane	5.13	63	183929	138.090	ppb		100
34) Bromodichloromethane	5.37	83	228526	143.954	ppb		97
36) Dibromomethane	5.23	93	109600	142.870	ppb		82



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

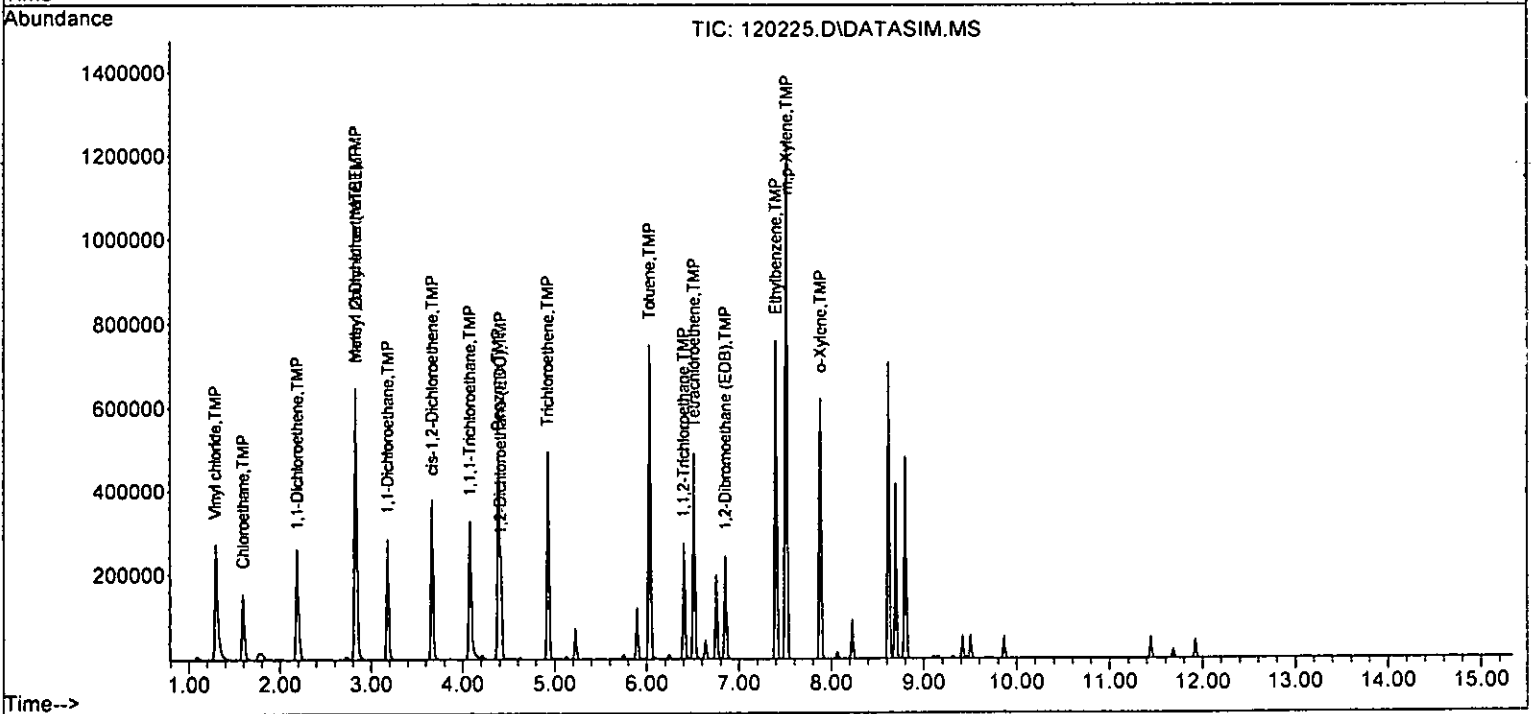
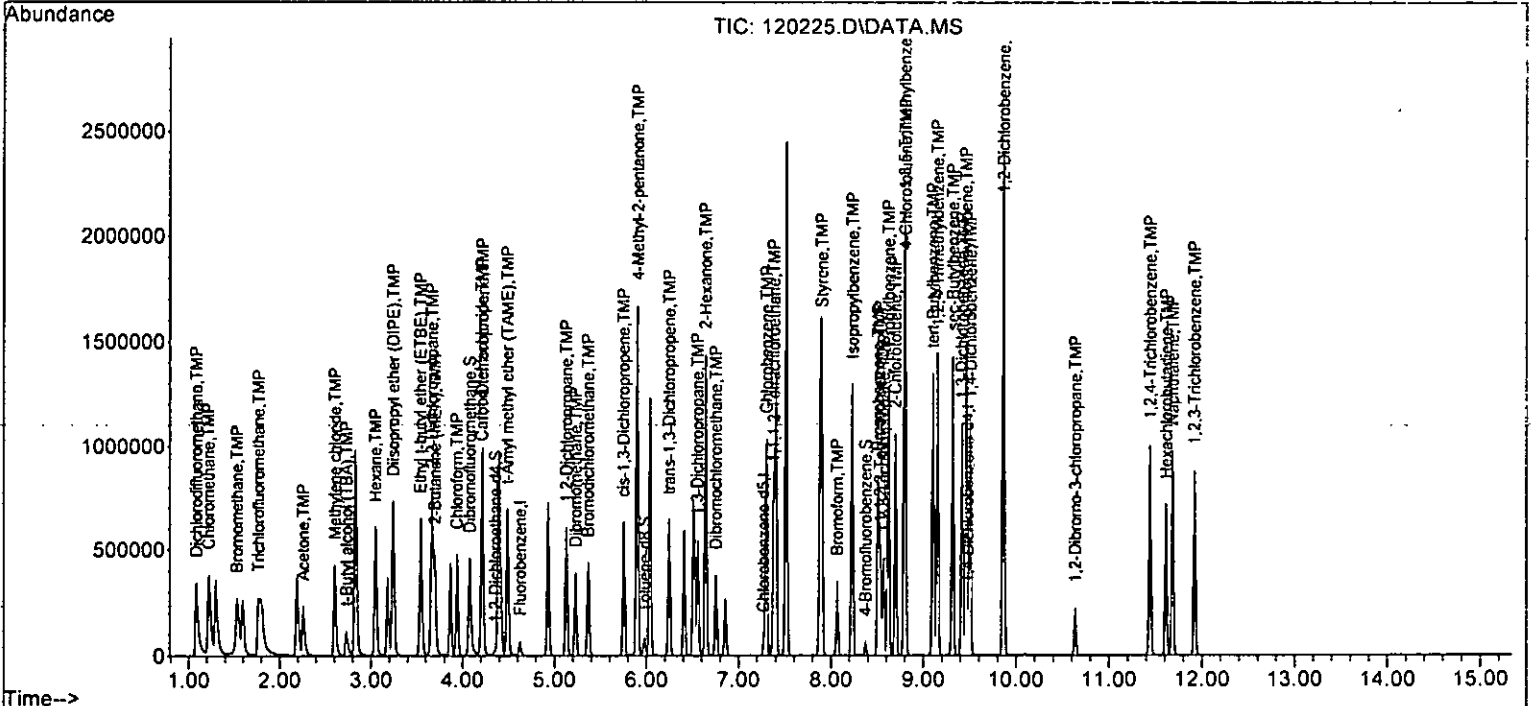
Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	161147	703.479	ppb	97
38) cis-1,3-Dichloropropene	5.75	75	277603	148.105	ppb	95
40] Toluene	6.03	92	434928	148.586	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	259366	150.280	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	138590	151.262	ppb	99
43) 2-Hexanone	6.64	43	747390	705.565	ppb	99
44) 1,3-Dichloropropane	6.55	76	243282	147.727	ppb	100
45] Tetrachloroethene	6.51	164	165348	150.472	ppb	99
46) Dibromochloromethane	6.75	129	192432	154.579	ppb	95
47] 1,2-Dibromoethane (EDB)	6.85	107	164862	150.608	ppb	99
48) Chlorobenzene	7.30	112	475210	146.023	ppb	98
49] Ethylbenzene	7.40	91	818414	150.798	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	181285	148.867	ppb	79
51] m,p-Xylene	7.52	106	603310	290.112	ppb #	79
52] o-Xylene	7.88	106	299097	146.487	ppb	91
53) Styrene	7.90	104	494593	144.869	ppb	95
54) Isopropylbenzene	8.23	105	782475	143.286	ppb	96
55) Bromoform	8.07	173	139225	152.192	ppb	97
58) n-Propylbenzene	8.63	91	884772	141.464	ppb	92
59) Bromobenzene	8.51	156	212486	145.707	ppb	86
60) 1,3,5-Trimethylbenzene	8.80	105	647213	141.197	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	191643	141.457	ppb	79
62) 1,2,3-Trichloropropane	8.57	75	160610	145.229	ppb	93
63) 2-Chlorotoluene	8.70	91	518682	136.698	ppb	99
64) 4-Chlorotoluene	8.81	91	609930	140.218	ppb	95
65) tert-Butylbenzene	9.10	119	588946	145.349	ppb	97
66) 1,2,4-Trimethylbenzene	9.15	105	676264	142.200	ppb	98
67) sec-Butylbenzene	9.32	105	848774	145.425	ppb	96
68) p-Isopropyltoluene	9.46	119	745590	149.151	ppb	96
69) 1,3-Dichlorobenzene	9.42	146	388405	143.143	ppb	92
70) 1,4-Dichlorobenzene	9.51	146	388373	140.396	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	372051	148.035	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.64	75	45301	155.079	ppb	98
73) 1,2,4-Trichlorobenzene	11.44	180	279926	154.890	ppb	98
74) Hexachlorobutadiene	11.61	225	143156	150.324	ppb	96
75) Naphthalene	11.68	128	673828	151.912	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	255696	156.336	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

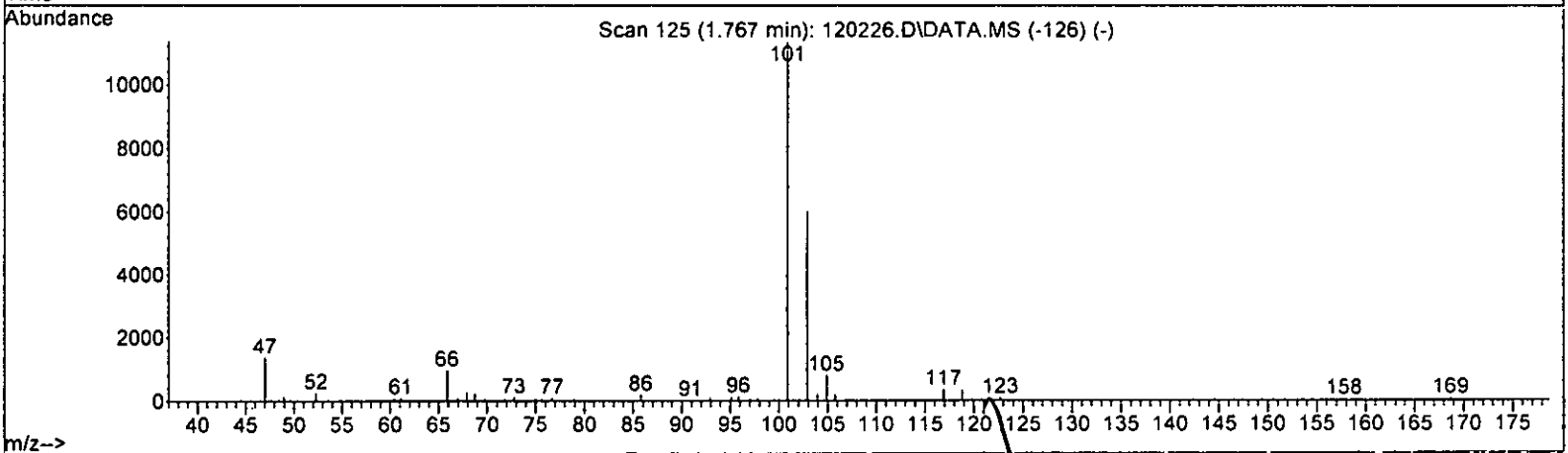
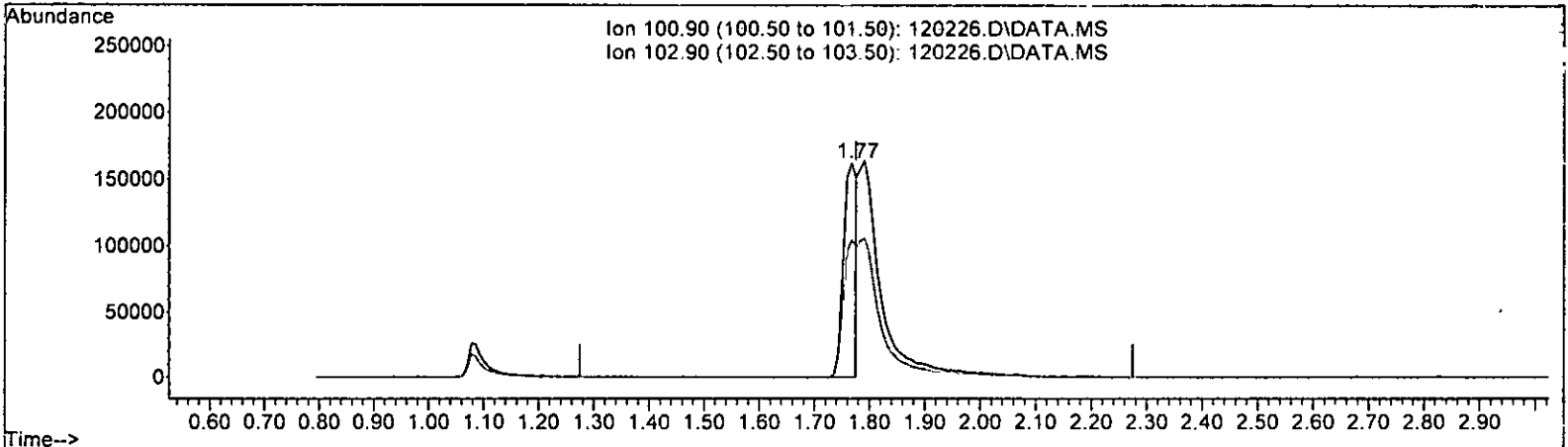
Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120226.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.767min (-0.008) 70.990 ppb

response 266394

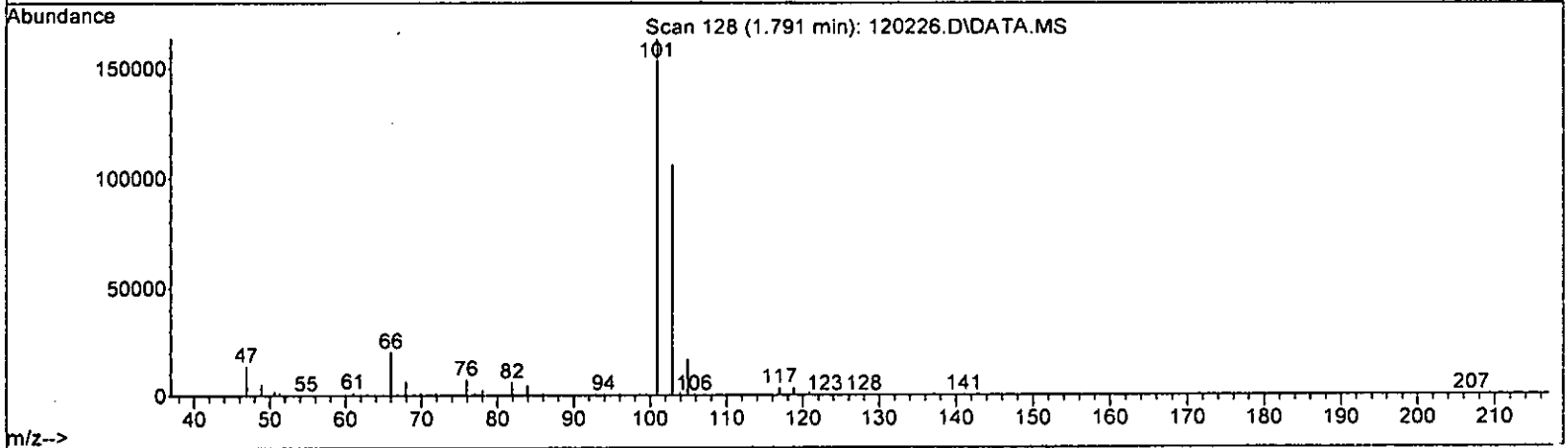
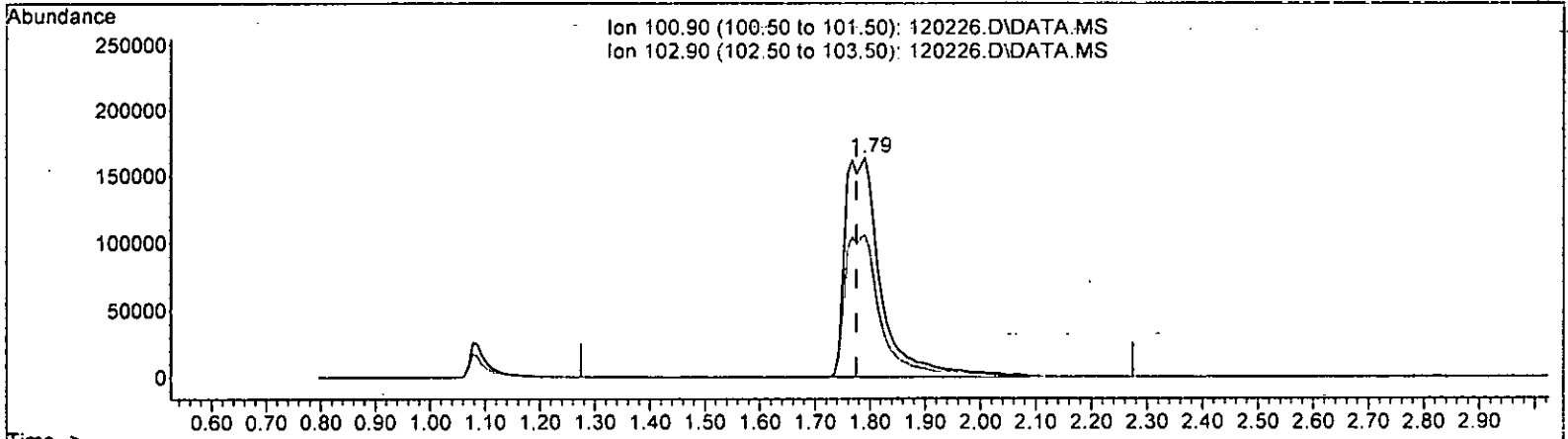
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.25
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note:* 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120226.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.791min (+ 0.016) 205.020 ppb m

response 769356

Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.40
0.00	0.00	0.00
0.00	0.00	0.00

*m/z 5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.02
3 S Dibromofluoromethane	10.000	10.237	-2.4	100	0.00
4 TMP Dichlorodifluoromethane	200.000	200.647	-0.3	100	0.00
5 TMP Chloromethane	200.000	199.762	0.1	100	0.00
6 TMP Vinyl chloride	200.000	197.626	1.2	100	0.00
7 TMP Bromomethane	200.000	197.339	1.3	100	0.00
8 TMP Chloroethane	200.000	190.720	4.6	100	-0.02
9 TMP Trichlorofluoromethane	200.000	205.020	-2.5	105	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	1000.000	913.849	8.6	100	-0.02
12 TMP 1,1-Dichloroethene	200.000	197.726	1.1	100	0.00
13 TMP Hexane	200.000	203.142	-1.6	100	0.00
14 TMP Methylene chloride	200.000	201.171	-0.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	1000.000	968.711	3.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	200.000	196.588	1.7	100	0.00
17 TMP trans-1,2-Dichloroethene	200.000	197.166	1.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	200.000	180.478	9.8	100	0.00
19 TMP 1,1-Dichloroethane	200.000	196.655	1.7	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	200.000	193.796	3.1	100	0.00
21 TMP 2,2-Dichloropropane	200.000	195.403	2.3	100	0.00
22 TMP cis-1,2-Dichloroethene	200.000	198.146	0.9	100	0.00
23 TMP Chloroform	200.000	192.510	3.7	100	0.00
24 TMP 2-Butanone (MEK)	1000.000	1000.134	-0.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	200.000	190.057	5.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	200.000	197.675	1.2	100	0.00
27 TMP 1,1,1-Trichloroethane	200.000	200.881	-0.4	100	0.00
28 TMP 1,1-Dichloropropene	200.000	193.426	3.3	100	0.00
29 TMP Carbon tetrachloride	200.000	200.395	-0.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.189	-1.9	100	0.00
31 TMP Benzene	200.000	199.834	0.1	100	0.00
32 TMP Trichloroethene	200.000	204.519	-2.3	100	0.00
33 TMP 1,2-Dichloropropane	200.000	183.873	8.1	100	0.00
34 TMP Bromodichloromethane	200.000	194.386	2.8	100	0.00
35 S Toluene-d8	10.000	9.953	0.5	100	0.00
36 TMP Dibromomethane	200.000	190.714	4.6	100	0.00
37 TMP 4-Methyl-2-pentanone	1000.000	959.157	4.1	100	0.00
38 TMP cis-1,3-Dichloropropene	200.000	196.788	1.6	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	200.000	192.021	4.0	100	0.00
41 TMP trans-1,3-Dichloropropene	200.000	193.027	3.5	100	0.00
42 TMP 1,1,2-Trichloroethane	200.000	198.293	0.9	100	0.00
43 TMP 2-Hexanone	1000.000	910.426	9.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	200.000	192.113	3.9	100	0.00
45 TMP Tetrachloroethene	200.000	198.996	0.5	100	0.00
46 TMP Dibromochloromethane	200.000	201.906	-1.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	200.000	194.283	2.9	100	0.00
48 TMP Chlorobenzene	200.000	190.337	4.8	100	0.00
49 TMP Ethylbenzene	200.000	194.308	2.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	200.000	191.943	4.0	100	0.00
51 TMP m,p-Xylene	400.000	374.985	6.3	100	0.00
52 TMP o-Xylene	200.000	189.296	5.4	100	0.00
53 TMP Styrene	200.000	186.555	6.7	100	0.00
54 TMP Isopropylbenzene	200.000	185.671	7.2	100	0.00
55 TMP Bromoform	200.000	199.448	0.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.721	2.8	100	0.00
58 TMP n-Propylbenzene	200.000	182.658	8.7	100	0.00
59 TMP Bromobenzene	200.000	186.352	6.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	200.000	181.401	9.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	200.000	182.641	8.7	100	0.00
62 TMP 1,2,3-Trichloropropane	200.000	186.482	6.8	100	0.00
63 TMP 2-Chlorotoluene	200.000	176.891	11.6	100	0.00
64 TMP 4-Chlorotoluene	200.000	178.621	10.7	100	0.00
65 TMP tert-Butylbenzene	200.000	187.527	6.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	200.000	182.351	8.8	100	0.00
67 TMP sec-Butylbenzene	200.000	188.649	5.7	100	0.00
68 TMP p-Isopropyltoluene	200.000	192.541	3.7	100	0.00
69 TMP 1,3-Dichlorobenzene	200.000	185.348	7.3	100	0.00
70 TMP 1,4-Dichlorobenzene	200.000	181.419	9.3	100	0.00
71 TMP 1,2-Dichlorobenzene	200.000	189.830	5.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	200.000	204.635	-2.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	200.000	201.817	-0.9	100	0.00
74 TMP Hexachlorobutadiene	200.000	195.782	2.1	100	0.00
75 TMP Naphthalene	200.000	199.180	0.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	200.000	203.645	-1.8	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	0.02
3 S	Dibromofluoromethane	0.264	0.270	-2.3	100	0.00
4 TMP	Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP	Chloromethane	0.951	0.846	11.0	100	0.00
6 TMP	Vinyl chloride	0.862	0.737	14.5	100	0.00
7 TMP	Bromomethane	0.441	0.375	15.0	100	0.00
8 TMP	Chloroethane	0.341	0.315	7.6	100	-0.02
9 TMP	Trichlorofluoromethane	0.899	0.922	-2.6	105	0.02
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.031	0.029	6.5	100	-0.02
12 TMP	1,1-Dichloroethene	0.271	0.244	10.0	100	0.00
13 TMP	Hexane	0.469	0.423	9.8	100	0.00
14 TMP	Methylene chloride	0.269	0.254	5.6	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.812	0.726	10.6	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.314	0.263	16.2	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.953	0.860	9.8	100	0.00
19 TMP	1,1-Dichloroethane	0.547	0.489	10.6	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.307	0.298	2.9	100	0.00
21 TMP	2,2-Dichloropropane	0.347	0.296	14.7	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.329	0.289	12.2	100	0.00
23 TMP	Chloroform	0.477	0.459	3.8	100	0.00
24 TMP	2-Butanone (MEK)	0.173	0.162	6.4	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.739	0.702	5.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.479	0.388	19.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.494	0.465	5.9	100	0.00
28 TMP	1,1-Dichloropropene	0.368	0.356	3.3	100	0.00
29 TMP	Carbon tetrachloride	0.396	0.397	-0.3	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	1.103	0.977	11.4	100	0.00
32 TMP	Trichloroethene	0.368	0.325	11.7	100	0.00
33 TMP	1,2-Dichloropropane	0.315	0.289	8.3	100	0.00
34 TMP	Bromodichloromethane	0.375	0.365	2.7	100	0.00
35 S	Toluene-d8	0.975	0.971	0.4	100	0.00
36 TMP	Dibromomethane	0.181	0.173	4.4	100	0.00
37 TMP	4-Methyl-2-pentanone	0.054	0.052	3.7	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.443	0.436	1.6	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.986	0.827	16.1	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.508	0.490	3.5	100	0.00
42 TMP	1,1,2-Trichloroethane	0.285	0.265	7.0	100	0.00
43 TMP	2-Hexanone	0.312	0.284	9.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.465	3.9	100	0.00
45 TMP Tetrachloroethene	0.420	0.319	24.0#	100	0.00
46 TMP Dibromochloromethane	0.366	0.370	-1.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.313	17.4	100	0.00
48 TMP Chlorobenzene	0.957	0.911	4.8	100	0.00
49 TMP Ethylbenzene	1.885	1.551	17.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.344	3.9	100	0.00
51 TMP m,p-Xylene	0.705	0.573	18.7	100	0.00
52 TMP o-Xylene	0.683	0.568	16.8	100	0.00
53 TMP Styrene	1.004	0.937	6.7	100	0.00
54 TMP Isopropylbenzene	1.606	1.491	7.2	100	0.00
55 TMP Bromoform	0.269	0.268	0.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.840	2.8	100	0.00
58 TMP n-Propylbenzene	3.386	3.092	8.7	100	0.00
59 TMP Bromobenzene	0.790	0.736	6.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.251	9.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.670	8.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.558	6.8	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.817	11.5	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.103	10.7	100	0.00
65 TMP tert-Butylbenzene	2.194	2.057	6.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.347	8.9	100	0.00
67 TMP sec-Butylbenzene	3.160	2.980	5.7	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.605	3.7	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.361	7.4	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.358	9.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.291	5.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.162	-2.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.987	-0.9	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.505	2.1	100	0.00
75 TMP Naphthalene	2.401	2.392	0.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.902	-1.9	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	103	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.814	1.9	103	0.00
4 TMP Dichlorodifluoromethane	10.000	8.544	14.6	88	0.00
5 TMP Chloromethane	10.000	8.757	12.4	95	0.00
6 TMP Vinyl chloride	10.000	9.576	4.2	96	0.00
7 TMP Bromomethane	10.000	8.449	15.5	94	0.00
8 TMP Chloroethane	10.000	10.480	-4.8	100	0.00
9 TMP Trichlorofluoromethane	10.000	8.980	10.2	88	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	50.694	-1.4	106	0.00
12 TMP 1,1-Dichloroethene	10.000	10.114	-1.1	101	0.00
13 TMP Hexane	10.000	9.157	8.4	94	0.00
14 TMP Methylene chloride	10.000	9.591	4.1	101	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	48.119	3.8	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.195	-2.0	99	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.317	-3.2	99	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.139	8.6	98	0.00
19 TMP 1,1-Dichloroethane	10.000	9.978	0.2	99	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	9.921	0.8	99	0.00
21 TMP 2,2-Dichloropropane	10.000	9.145	8.6	96	0.00
22 TMP cis-1,2-Dichloroethene	10.000	9.830	1.7	98	0.00
23 TMP Chloroform	10.000	9.698	3.0	103	0.00
24 TMP 2-Butanone (MEK)	50.000	54.827	-9.7	105	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	9.622	3.8	102	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	9.964	0.4	99	0.00
27 TMP 1,1,1-Trichloroethane	10.000	9.585	4.1	98	0.00
28 TMP 1,1-Dichloropropene	10.000	9.524	4.8	99	0.00
29 TMP Carbon tetrachloride	10.000	9.660	3.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.538	4.6	98	0.00
31 TMP Benzene	10.000	9.614	3.9	98	0.00
32 TMP Trichloroethene	10.000	10.357	-3.6	104	0.00
33 TMP 1,2-Dichloropropane	10.000	9.070	9.3	100	0.00
34 TMP Bromodichloromethane	10.000	9.355	6.4	101	0.00
35 S Toluene-d8	10.000	9.830	1.7	98	0.00
36 TMP Dibromomethane	10.000	9.574	4.3	102	0.00
37 TMP 4-Methyl-2-pentanone	50.000	50.398	-0.8	103	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.270	7.3	97	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
40 TMP Toluene	10.000	9.946	0.5	98	0.00
41 TMP trans-1,3-Dichloropropene	10.000	10.186	-1.9	101	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.052	-0.5	101	0.00
43 TMP 2-Hexanone	50.000	53.941	-7.9	106	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.303	-3.0	103	0.00
45 TMP Tetrachloroethene	10.000	9.859	1.4	98	0.00
46 TMP Dibromochloromethane	10.000	10.273	-2.7	103	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.199	-2.0	101	0.00
48 TMP Chlorobenzene	10.000	9.891	1.1	101	0.00
49 TMP Ethylbenzene	10.000	10.334	-3.3	98	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.741	2.6	102	0.00
51 TMP m,p-Xylene	20.000	19.925	0.4	98	0.00
52 TMP o-Xylene	10.000	10.201	-2.0	100	0.00
53 TMP Styrene	10.000	9.562	4.4	96	0.00
54 TMP Isopropylbenzene	10.000	9.658	3.4	97	0.00
55 TMP Bromoform	10.000	9.710	2.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.844	1.6	100	0.00
58 TMP n-Propylbenzene	10.000	9.662	3.4	98	0.00
59 TMP Bromobenzene	10.000	9.804	2.0	101	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.764	2.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.336	6.6	95	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.697	3.0	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.353	6.5	98	0.00
64 TMP 4-Chlorotoluene	10.000	9.597	4.0	99	0.00
65 TMP tert-Butylbenzene	10.000	9.729	2.7	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.713	2.9	101	0.00
67 TMP sec-Butylbenzene	10.000	9.575	4.3	97	0.00
68 TMP p-Isopropyltoluene	10.000	9.912	0.9	99	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.620	3.8	101	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.628	3.7	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.038	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	10.553	-5.5	115	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	10.118	-1.2	106	0.00
74 TMP Hexachlorobutadiene	10.000	10.246	-2.5	103	0.00
75 TMP Naphthalene	10.000	10.320	-3.2	110	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.786	-7.9	112	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	103	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.259	1.9	103	0.00
4 TMP Dichlorodifluoromethane	0.712	0.608	14.6	88	0.00
5 TMP Chloromethane	0.951	0.762	19.9	95	0.00
6 TMP Vinyl chloride	0.862	0.716	16.9	96	0.00
7 TMP Bromomethane	0.441	0.415	5.9	94	0.00
8 TMP Chloroethane	0.341	0.349	-2.3	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.807	10.2	88	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.032	-3.2	106	0.00
12 TMP 1,1-Dichloroethene	0.271	0.250	7.7	101	0.00
13 TMP Hexane	0.469	0.395	15.8	94	0.00
14 TMP Methylene chloride	0.269	0.271	-0.7	101	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.754	7.1	99	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.276	12.1	99	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.871	8.6	98	0.00
19 TMP 1,1-Dichloroethane	0.547	0.497	9.1	99	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.305	0.7	99	0.00
21 TMP 2,2-Dichloropropane	0.347	0.282	18.7	96	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.287	12.8	98	0.00
23 TMP Chloroform	0.477	0.462	3.1	103	0.00
24 TMP 2-Butanone (MEK)	0.173	0.182	-5.2	105	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.711	3.8	102	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.392	18.2	99	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.444	10.1	98	0.00
28 TMP 1,1-Dichloropropene	0.368	0.351	4.6	99	0.00
29 TMP Carbon tetrachloride	0.396	0.383	3.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.057	5.0	98	0.00
31 TMP Benzene	1.103	0.976	11.5	98	0.00
32 TMP Trichloroethene	0.368	0.330	10.3	104	0.00
33 TMP 1,2-Dichloropropane	0.315	0.286	9.2	100	0.00
34 TMP Bromodichloromethane	0.375	0.351	6.4	101	0.00
35 S Toluene-d8	0.975	0.959	1.6	98	0.00
36 TMP Dibromomethane	0.181	0.174	3.9	102	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.055	-1.9	103	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.411	7.2	97	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
40 TMP Toluene	0.986	0.858	13.0	98	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.517	-1.8	101	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.279	2.1	101	0.00
43 TMP 2-Hexanone	0.312	0.336	-7.7	106	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.499	-3.1	103	0.00
45 TMP Tetrachloroethene	0.420	0.326	22.4#	98	0.00
46 TMP Dibromochloromethane	0.366	0.376	-2.7	103	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.329	13.2	101	0.00
48 TMP Chlorobenzene	0.957	0.947	1.0	101	0.00
49 TMP Ethylbenzene	1.885	1.655	12.2	98	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.349	2.5	102	0.00
51 TMP m,p-Xylene	0.705	0.611	13.3	98	0.00
52 TMP o-Xylene	0.683	0.614	10.1	100	0.00
53 TMP Styrene	1.004	0.960	4.4	96	0.00
54 TMP Isopropylbenzene	1.606	1.551	3.4	97	0.00
55 TMP Bromoform	0.269	0.261	3.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-8romofluorobenzene	0.864	0.851	1.5	100	0.00
58 TMP n-Propylbenzene	3.386	3.272	3.4	98	0.00
59 TMP Bromobenzene	0.790	0.774	2.0	101	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.423	2.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.685	6.5	95	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.581	3.0	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.921	6.5	98	0.00
64 TMP 4-Chlorotoluene	2.355	2.260	4.0	99	0.00
65 TMP tert-Butylbenzene	2.194	2.134	2.7	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.501	2.9	101	0.00
67 TMP sec-Butylbenzene	3.160	3.025	4.3	97	0.00
68 TMP p-Isopropyltoluene	2.706	2.683	0.8	99	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.413	3.8	101	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.442	3.7	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.366	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.167	-5.7	115	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.990	-1.2	106	0.00
74 TMP Hexachlorobutadiene	0.516	0.528	-2.3	103	0.00
75 TMP Naphthalene	2.401	2.478	-3.2	110	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.955	-7.9	112	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	44988	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35045	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19156	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11636	9.814	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.10%	
30) 1,2-Dichloroethane-d4	4.36	102	2558	9.538	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	95.40%	
35) Toluene-d8	5.98	98	43138	9.830	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	98.30%	
57) 4-Bromofluorobenzene	8.38	95	16293	9.844	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	98.40%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	27352	8.544	ppb		94
5) Chloromethane	1.23	50	34280	8.757	ppb		98
6] Vinyl chloride	1.30	62	32226	9.576	ppb		94
7) Bromomethane	1.54	94	18653	8.449	ppb	#	60
8] Chloroethane	1.61	64	15689	10.480	ppb		82
9) Trichlorofluoromethane	1.77	101	36326	8.980	ppb		68
10) 2-Propanol	2.41	45	119	No Calib			
11) Acetone	2.26	58	7116	50.694	ppb		98
12] 1,1-Dichloroethene	2.19	96	11256	10.114	ppb	#	80
13) Hexane	3.05	57	17748	9.157	ppb		97
14) Methylene chloride	2.61	84	12180	9.591	ppb		82
15) t-Butyl alcohol (TBA)	2.73	59	10016	48.119	ppb		94
16] Methyl t-butyl ether (...)	2.84	73	33936	10.195	ppb		98
17] trans-1,2-Dichloroethene	2.83	96	12405	10.317	ppb		89
18) Diisopropyl ether (DIPE)	3.24	45	39166	9.139	ppb		99
19] 1,1-Dichloroethane	3.18	63	22344	9.978	ppb		96
20) Ethyl t-butyl ether (E...)	3.55	87	13717	9.921	ppb		91
21) 2,2-Dichloropropane	3.67	77	12689	9.145	ppb		92
22] cis-1,2-Dichloroethene	3.67	96	12925	9.830	ppb		94
23) Chloroform	3.94	83	20790	9.698	ppb		92
24) 2-Butanone (MEK)	3.70	43	40996	54.827	ppb		97
25) t-Amyl methyl ether (T...)	4.49	73	31973	9.622	ppb		98
26] 1,2-Dichloroethane (EDC)	4.42	62	17654	9.964	ppb		96
27] 1,1,1-Trichloroethane	4.08	97	19986	9.585	ppb		96
28) 1,1-Dichloropropene	4.22	75	15777	9.524	ppb		89
29) Carbon tetrachloride	4.21	117	17211	9.660	ppb		92
31] Benzene	4.39	78	43890	9.614	ppb		93
32] Trichloroethene	4.93	95	14849	10.357	ppb		94
33) 1,2-Dichloropropane	5.13	63	12847	9.070	ppb		100
34) Bromodichloromethane	5.37	83	15793	9.355	ppb		95
36) Dibromomethane	5.23	93	7810	9.574	ppb		83

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

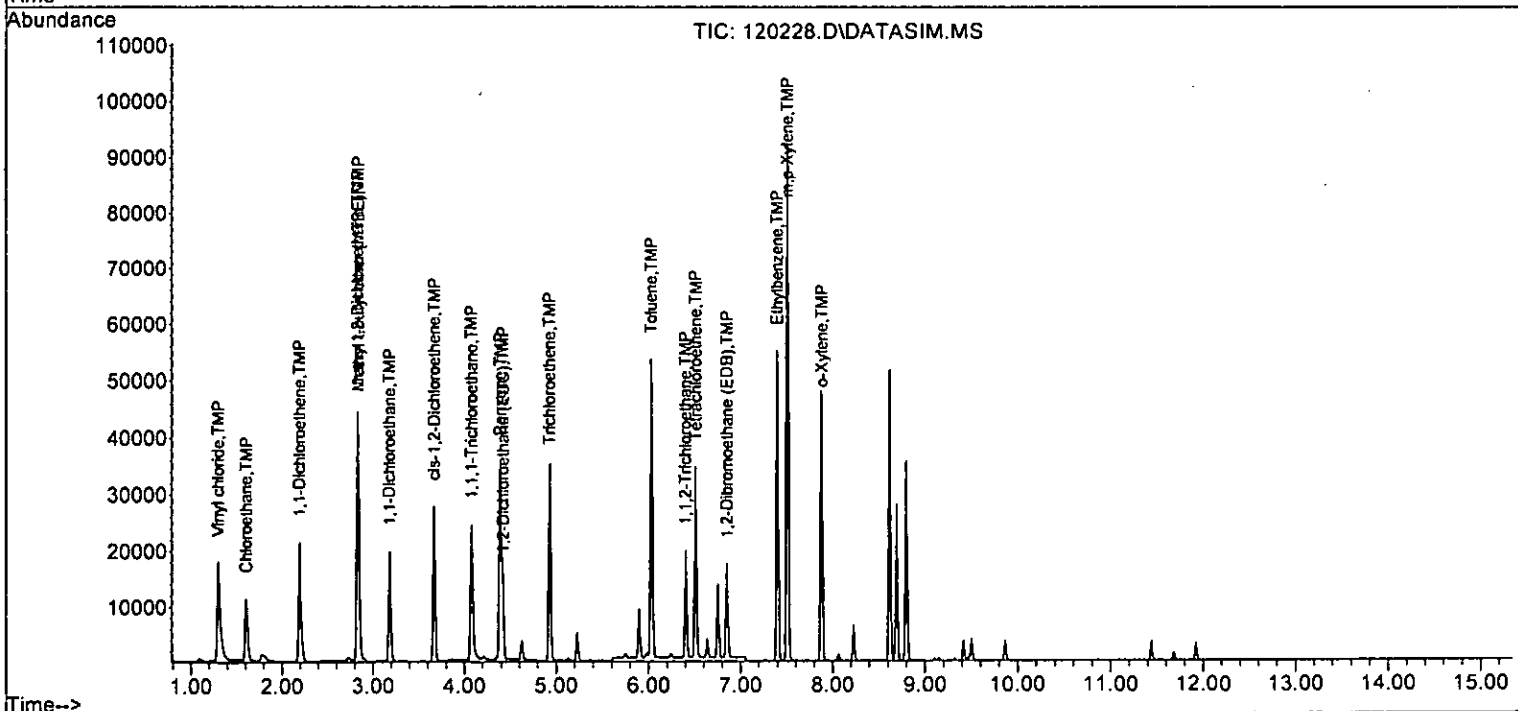
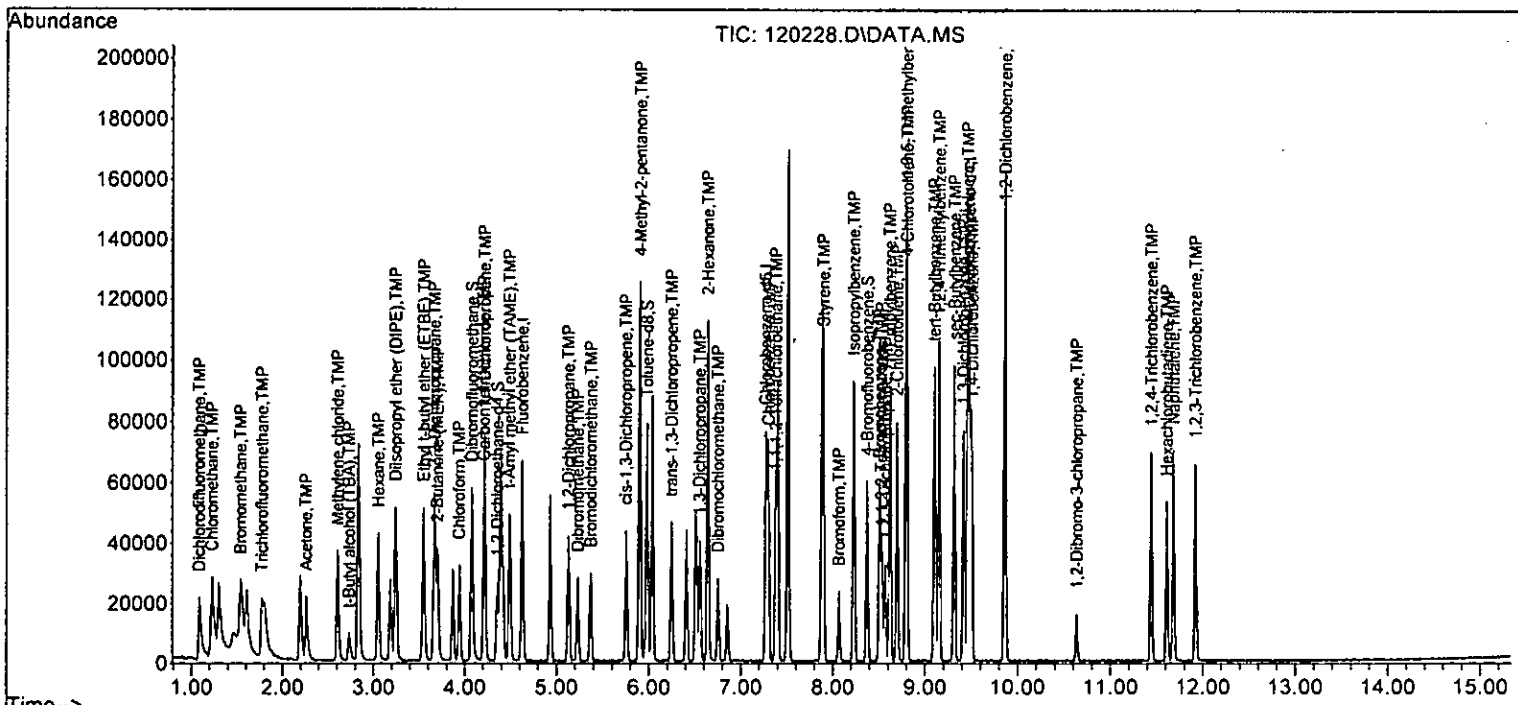
Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	12277	50.398	ppb	97
38) cis-1,3-Dichloropropene	5.75	75	18478	9.270	ppb	93
40] Toluene	6.03	92	30086	9.946	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	18120	10.186	ppb	94
42] 1,1,2-Trichloroethane	6.40	83	9764	10.052	ppb	97
43) 2-Hexanone	6.64	43	58897	53.941	ppb	98
44) 1,3-Dichloropropane	6.55	76	17490	10.303	ppb	99
45] Tetrachloroethene	6.51	164	11431	9.859	ppb	99
46) Dibromochloromethane	6.75	129	13182	10.273	ppb	95
47] 1,2-Dibromoethane (EDB)	6.85	107	11543	10.199	ppb	99
48) Chlorobenzene	7.30	112	33180	9.891	ppb	99
49] Ethylbenzene	7.40	91	57987	10.334	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	12227	9.741	ppb	79
51] m,p-Xylene	7.51	106	42826	19.925	ppb	99
52] o-Xylene	7.88	106	21519	10.201	ppb	98
53) Styrene	7.90	104	33648	9.562	ppb	97
54) Isopropylbenzene	8.23	105	54362	9.658	ppb	97
55) Bromoform	8.07	173	9156	9.710	ppb	97
58) n-Propylbenzene	8.62	91	62670	9.662	ppb	90
59) Bromobenzene	8.51	156	14828	9.804	ppb	87
60) 1,3,5-Trimethylbenzene	8.80	105	46416	9.764	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	13118	9.336	ppb	76
62) 1,2,3-Trichloropropane	8.57	75	11122	9.697	ppb	96
63) 2-Chlorotoluene	8.70	91	36803	9.353	ppb	100
64) 4-Chlorotoluene	8.81	91	43295	9.597	ppb	96
65) tert-Butylbenzene	9.10	119	40883	9.729	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	47907	9.713	ppb	97
67) sec-Butylbenzene	9.32	105	57955	9.575	ppb	96
68) p-Isopropyltoluene	9.46	119	51388	9.912	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	27070	9.620	ppb	91
70) 1,4-Dichlorobenzene	9.51	146	27620	9.628	ppb	97
71) 1,2-Dichlorobenzene	9.86	146	26163	10.038	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.64	75	3197	10.553	ppb	85
73) 1,2,4-Trichlorobenzene	11.44	180	18964	10.118	ppb	95
74) Hexachlorobutadiene	11.61	225	10119	10.246	ppb	95
75) Naphthalene	11.68	128	47474	10.320	ppb	97
76) 1,2,3-Trichlorobenzene	11.92	180	18295	10.786	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Response Factor Report GCMS11

Method Path : D:\Methods\Inst11\  
Method File : VB121222ms11.M  
Title : 8260 Purge & Trap Volatiles Dual Acquisition  
Last Update : Tue Dec 13 13:28:26 2022  
Response Via : Initial Calibration

Calibration Files  
0.02=121228.D 0.04=121229.D 0.1 =121230.D 0.2 =121231.D 0.5 =121232.D 1 =121233.D 2 =121234.D 5 =121235.D 10 =121236.D 20 =121237.D  
50 =121238.D 100 =121239.D 150 =121240.D 200 =121241.D

Compound	0.02	0.04	0.1	0.2	0.5	1	2	5	10	20	50	100	150	200	Avg	%RSD	
1) I Fluorobenzene															0.000#	-1.00	
2) TMP Ethanol															0.000	2.74	
3) 5 Dibromofluorom...	0.271	0.281	0.255	0.262	0.258	0.259	0.257	0.258	0.266	0.266	0.262	0.271	0.260	0.269	0.264	5.37	
4) TMP Dichlorodifluo...					0.602	0.734	0.675	0.681	0.674	0.683	0.690	0.710	0.722	0.715	0.688	4.91	
5) TMP Chloromethane						0.960	0.956	0.858	0.863	0.845	0.860	0.866	0.865	0.872	0.883	9.68	
6) TMP Vinyl chloride	0.948	0.762	0.629	0.666	0.703	0.710	0.702	0.714	0.746	0.724	0.736	0.733	0.737	0.733	0.732	8.75	
7) TMP Bromomethane							0.378	0.305	0.332	0.397	0.388	0.386	0.380	0.381	0.368	8.86	
8) TMP Chloroethane								0.391	0.392	0.312	0.318	0.331	0.325	0.322	0.337	0.318	6.96
9) TMP Trichlorofluor...					0.934	0.736	0.842	0.846	0.866	0.846	0.833	0.873	0.922	0.937	0.934	0.870	7.25
10) TMP 2-Propanol															0.000	-1.00	
11) TMP Acetone					0.041	0.042	0.038	0.034	0.035	0.035	0.035	0.035	0.037	0.037	0.038	3.66	
12) TMP 1,1-Dichloroet...	0.233	0.250	0.237	0.240	0.262	0.228	0.243	0.234	0.238	0.239	0.241	0.238	0.240	0.240	0.240	5.43	
13) TMP Hexane			0.472	0.474	0.450	0.412	0.436	0.415	0.425	0.418	0.419	0.417	0.434	0.417	0.434	7.94	
14) TMP Methylene chlo...							0.309	0.288	0.261	0.261	0.253	0.255	0.256	0.269	0.269	4.94	
15) TMP t-Butyl alcoho...			0.686	0.752	0.748	0.748	0.737	0.729	0.760	0.728	0.732	0.724	0.726	0.728	0.733	2.60	
16) TMP Methyl t-butyl...			0.255	0.280	0.264	0.357	0.264	0.273	0.276	0.260	0.261	0.258	0.259	0.260	0.272	10.21	
17) TMP trans-1,2-Dich...				1.080	0.900	0.923	0.948	0.924	0.932	0.901	0.922	0.906	0.913	0.905	0.932	5.48	
18) TMP Diisopropyl et...			0.487	0.529	0.508	0.517	0.510	0.492	0.517	0.493	0.502	0.497	0.499	0.500	0.504	2.45	
19) TMP 1,1-Dichloroet...						0.323	0.247	0.315	0.300	0.284	0.307	0.286	0.298	0.298	0.298	6.69	
20) TMP Ethyl t-butyl ...						0.378	0.357	0.323	0.308	0.299	0.316	0.280	0.299	0.310	0.304	8.89	
21) TMP 2,2-Dichloropr...			0.292	0.303	0.288	0.293	0.288	0.277	0.290	0.277	0.283	0.280	0.281	0.283	0.286	2.70	
22) TMP cis-1,2-Dichlo...				0.509	0.539	0.489	0.487	0.472	0.458	0.450	0.457	0.456	0.465	0.466	0.477	5.67	
23) TMP Chloroform						0.211	0.198	0.184	0.192	0.178	0.168	0.170	0.179	0.182	0.183	7.70	
24) TMP 2-Butanone (MEK)						0.656	0.767	0.680	0.712	0.680	0.716	0.670	0.687	0.687	0.695	4.29	
25) TMP t-Amyl methyl ...					0.454	0.469	0.424	0.424	0.409	0.391	0.409	0.392	0.398	0.394	0.396	6.13	
26) TMP 1,2-Dichloroet...			0.410	0.444	0.438	0.446	0.446	0.428	0.446	0.432	0.445	0.444	0.450	0.453	0.440	2.69	
27) TMP 1,1,1-Trichlor...				0.376	0.371	0.377	0.384	0.350	0.365	0.345	0.365	0.351	0.353	0.359	0.362	3.63	
28) TMP 1,1-Dichloropr...					0.298	0.333	0.365	0.372	0.360	0.374	0.368	0.379	0.387	0.398	0.404	8.13	
29) TMP Carbon tetrach...					0.061	0.062	0.058	0.055	0.060	0.060	0.064	0.062	0.061	0.061	0.060	4.25	
30) 5 1,2-Dichloroet...	0.056	0.062	0.061	0.062	0.058	0.058	0.055	0.060	0.060	0.064	0.062	0.061	0.061	0.060	0.060	3.13	
31) TMP Benzene			0.991	1.074	1.007	1.033	1.017	0.971	1.008	0.967	0.981	0.973	0.979	0.985	0.999	2.52	
32) TMP Trichloroethene			0.312	0.330	0.311	0.319	0.315	0.301	0.318	0.305	0.314	0.317	0.321	0.324	0.316	6.46	
33) TMP 1,2-Dichloropr...				0.326	0.333	0.297	0.306	0.269	0.294	0.278	0.287	0.290	0.289	0.291	0.296	7.13	
34) TMP Bromodichlorom...				0.373	0.418	0.325	0.354	0.326	0.352	0.339	0.354	0.357	0.367	0.366	0.357	1.55	
35) 5 Toluene-d8	0.966	0.975	0.985	0.946	0.966	0.960	0.948	0.943	0.941	0.953	0.990	0.953	0.957	0.960	0.960	9.91	
36) TMP Dibromomethane			0.122	0.187	0.161	0.179	0.179	0.170	0.175	0.170	0.173	0.171	0.174	0.176	0.169	4.31	
37) TMP 4-Methyl-2-pen...				0.052	0.055	0.057	0.057	0.051	0.051	0.051	0.052	0.050	0.051	0.051	0.052		



Method Path : D:\Methods\Inst11\  
 Method File : VB121222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 38) TMP cis-1,3-Dichlo... 0.595 0.412 0.388 0.425 0.378 0.418 0.411 0.416 0.418 0.424 0.429 0.429 13.35

39) I Chlorobenzene-d5 -----1STD-----

40) TMP Toluene	0.975	0.916	0.864	0.876	0.844	0.836	0.856	0.812	0.814	0.826	0.851	0.821	0.858	5.51
41) TMP trans-1,3-Dich...	0.448	0.419	0.540	0.494	0.495	0.481	0.472	0.480	0.490	0.511	0.491	0.484	6.47	
42) TMP 1,1,2-Trichlor...	0.269	0.270	0.261	0.274	0.263	0.260	0.268	0.253	0.258	0.259	0.270	0.259	2.43	
43) TMP 2-Hexanone	0.373	0.349	0.358	0.346	0.344	0.328	0.322	0.310	0.322	0.303	0.335	0.335	6.63	
44) TMP 1,3-Dichloropr...	0.392	0.473	0.504	0.488	0.477	0.496	0.463	0.468	0.461	0.480	0.465	0.470	6.25	
45) TMP Tetrachloroethene	0.399	0.375	0.353	0.351	0.339	0.329	0.336	0.319	0.320	0.325	0.337	0.323	7.07	
46) TMP Dibromochlorom...	0.323	0.330	0.342	0.377	0.340	0.353	0.354	0.351	0.365	0.385	0.371	0.354	5.45	
47) TMP 1,2-Dibromoeth...	0.340	0.343	0.330	0.337	0.325	0.320	0.328	0.313	0.318	0.321	0.334	0.319	2.94	
48) TMP Chlorobenzene	0.967	0.902	0.944	0.903	0.920	0.938	0.901	0.896	0.923	0.956	0.927	0.925	2.59	
49) TMP Ethylbenzene	1.669	1.713	1.652	1.661	1.632	1.607	1.637	1.544	1.541	1.552	1.594	1.611	3.64	
50) TMP 1,1,1,2-Tetrac...	0.249	0.343	0.343	0.328	0.338	0.350	0.328	0.330	0.347	0.359	0.348	0.333	8.91	
51) TMP m,p-Xylene	0.642	0.649	0.630	0.630	0.618	0.605	0.615	0.576	0.574	0.576	0.595	0.577	4.53	
52) TMP o-Xylene	0.596	0.623	0.621	0.613	0.603	0.596	0.608	0.573	0.567	0.574	0.594	0.571	3.33	
53) TMP Styrene	1.002	0.894	1.026	0.985	1.016	0.999	0.937	0.941	0.954	0.990	0.960	0.973	4.07	
54) TMP Isopropylbenzene	1.708	1.559	1.577	1.567	1.549	1.607	1.493	1.505	1.528	1.591	1.520	1.564	3.80	
55) TMP Bromoform	0.227	0.233	0.258	0.238	0.244	0.255	0.248	0.257	0.263	0.281	0.272	0.252	6.51	

56) I 1,4-Dichlorobenzen... -1STD-----

57) S 4-8-bromofluorob...	0.814	0.848	0.822	0.837	0.855	0.839	0.842	0.822	0.856	0.849	0.819	0.846	0.895	0.877	0.844	2.68
58) TMP n-Propylbenzene	3.483	3.243	3.582	3.255	3.233	3.318	3.195	3.184	3.152	3.279	3.169	3.281	4.13			
59) TMP Bromobenzene	0.791	0.735	0.815	0.748	0.766	0.775	0.765	0.762	0.756	0.792	0.771	0.770	2.90			
60) TMP 1,3,5-Trimethy...	3.022	2.473	2.471	2.392	2.353	2.392	2.345	2.326	2.340	2.413	2.345	2.443	8.13			
61) TMP 1,1,2,2-Tetrac...	0.708	0.708	0.748	0.716	0.704	0.709	0.694	0.680	0.661	0.687	0.667	0.698	3.50			
62) TMP 1,2,3-Trichlor...	0.788	0.543	0.562	0.558	0.598	0.578	0.576	0.564	0.546	0.575	0.556	0.586	11.78			
63) TMP 2-Chlorotoluene	2.337	1.895	1.958	1.995	1.826	1.927	1.890	1.858	1.863	1.926	1.871	1.941	7.22			
64) TMP 4-Chlorotoluene	2.951	2.363	2.279	2.234	2.107	2.241	2.170	2.172	2.155	2.236	2.181	2.281	10.21			
65) TMP tert-Butylbenzene	2.292	2.123	2.214	2.097	2.037	2.128	2.089	2.099	2.113	2.212	2.143	2.141	3.36			
66) TMP 1,2,4-Trimethy...	2.838	2.581	2.488	2.348	2.358	2.476	2.415	2.385	2.390	2.501	2.457	2.476	5.61			
67) TMP sec-Butylbenzene	3.358	3.087	3.143	3.073	2.962	3.055	3.076	3.049	3.040	3.175	3.113	3.103	3.27			
68) TMP p-Isopropyltol...	2.690	2.647	2.701	2.651	2.557	2.707	2.636	2.658	2.669	2.775	2.698	2.672	2.03			
69) TMP 1,3-Dichlorobe...	1.574	1.430	1.453	1.475	1.358	1.417	1.407	1.412	1.386	1.444	1.417	1.434	3.93			
70) TMP 1,4-Dichlorobe...	1.640	1.478	1.560	1.454	1.376	1.448	1.427	1.415	1.392	1.452	1.428	1.461	5.25			
71) TMP 1,2-Dichlorobe...	1.351	1.505	1.426	1.361	1.340	1.390	1.361	1.351	1.336	1.393	1.365	1.380	3.56			
72) TMP 1,2-Dibromo-3-...	0.154	0.158	0.142	0.142	0.149	0.155	0.153	0.155	0.168	0.162	0.155	0.155	4.70			
73) TMP 1,2,4-Trichlor...	0.890	0.919	0.977	0.936	0.922	0.968	0.994	1.002	1.024	1.085	1.061	0.980	6.23			
74) TMP Hexachlorobuta...	0.605	0.526	0.499	0.507	0.520	0.540	0.542	0.545	0.551	0.575	0.546	0.542	5.53			
75) TMP Naphthalene	3.498	2.667	2.424	2.424	2.449	2.383	2.368	2.420	2.617	2.547	2.597	2.597	13.62			
76) TMP 1,2,3-Trichlor...	0.906	0.885	0.816	0.842	0.855	0.916	0.906	0.907	0.939	1.002	0.970	0.904	6.04			

(#) = Out of Range

## Compound List Report GCMS11

Method Path : D:\Methods\Inst11\

Method File : VB121222ms11.M

Title : 8260 Purge &amp; Trap Volatiles Dual Acquisition

Last Update : Tue Dec 13 13:28:26 2022

Response Via : Initial Calibration

Total Cpnds : 76

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Fluorobenzene	96	4.63	1.000	A	1	A	B
2	T	Ethanol	45	1.86	0.402	A	1	A	B
3	S	Dibromofluoromethane	113	4.07	0.879	A	0	A	B
4	T	Dichlorodifluoromethane	85	1.08	0.233	A	1	A	B
5	T	Chloromethane	50	1.22	0.263	A	1	A	B
6	T	Vinyl chloride	-62	1.29	0.279	A	1	A	B
7	T	Bromomethane	94	1.53	0.331	A	1	A	B
8	T	Chloroethane	-64	1.59	0.343	A	1	A	B
9	T	Trichlorofluoromethane	101	1.79	0.387	A	1	A	B
10	T	2-Propanol	45	2.41	0.521	A	1	A	B
11	T	Acetone	58	2.26	0.489	A	1	A	B
12	T	1,1-Dichloroethene	-96	2.19	0.472	A	2	A	B
13	T	Hexane	57	3.05	0.659	A	2	A	B
14	T	Methylene chloride	84	2.60	0.562	A	2	A	B
15	T	t-Butyl alcohol (TBA)	59	2.73	0.590	A	1	A	B
16	T	Methyl t-butyl ether (MTBE)	-73	2.83	0.611	A	1	A	B
17	T	trans-1,2-Dichloroethene	-96	2.82	0.610	A	2	A	B
18	T	Diisopropyl ether (DIPE)	45	3.24	0.701	A	3	A	B
19	T	1,1-Dichloroethane	-63	3.18	0.688	A	2	A	B
20	T	Ethyl t-butyl ether (ETBE)	87	3.55	0.767	A	3	A	B
21	T	2,2-Dichloropropane	77	3.66	0.791	A	1	A	B
22	T	cis-1,2-Dichloroethene	-96	3.67	0.793	A	2	A	B
23	T	Chloroform	83	3.94	0.851	A	1	A	B
24	T	2-Butanone (MEK)	43	3.70	0.799	A	2	A	B
25	T	t-Amyl methyl ether (TAME)	73	4.49	0.970	A	2	A	B
26	T	1,2-Dichloroethane (EDC)	-62	4.41	0.953	A	1	A	B
27	T	1,1,1-Trichloroethane	-97	4.08	0.882	A	2	A	B
28	T	1,1-Dichloropropene	75	4.22	0.911	A	2	A	B
29	T	Carbon tetrachloride	117	4.21	0.909	A	1	A	B
30	S	1,2-Dichloroethane-d4	102	4.35	0.940	A	1	A	B
31	T	Benzene	-78	4.38	0.948	A	1	A	B
32	T	Trichloroethene	-95	4.93	1.065	A	3	A	B
33	T	1,2-Dichloropropane	63	5.13	1.109	A	1	A	B
34	T	Bromodichloromethane	83	5.37	1.159	A	2	A	B
35	S	Toluene-d8	98	5.98	1.293	A	1	A	B
36	T	Dibromomethane	93	5.23	1.131	A	2	A	B
37	T	4-Methyl-2-pentanone	85	5.91	1.276	A	2	A	B
38	T	cis-1,3-Dichloropropene	75	5.75	1.243	A	2	A	B
39	I	Chlorobenzene-d5	117	7.27	1.000	A	1	A	B
40	T	Toluene	-92	6.03	0.829	A	1	A	B
41	T	trans-1,3-Dichloropropene	75	6.25	0.859	A	2	A	B
42	T	1,1,2-Trichloroethane	-83	6.40	0.881	A	2	A	B
43	T	2-Hexanone	43	6.64	0.913	A	3	A	B
44	T	1,3-Dichloropropane	76	6.55	0.901	A	1	A	B
45	T	Tetrachloroethene	-164	6.51	0.896	A	3	A	B
46	T	Dibromochloromethane	129	6.75	0.929	A	1	A	B
47	T	1,2-Dibromoethane (EDB)	-107	6.85	0.943	A	2	A	B
48	T	Chlorobenzene	112	7.30	1.004	A	2	A	B
49	T	Ethylbenzene	-91	7.40	1.018	A	1	A	B
50	T	1,1,1,2-Tetrachloroethane	131	7.38	1.015	A	2	A	B
51	T	m,p-Xylene	-106	7.51	1.033	A	1	A	B
52	T	o-Xylene	-106	7.88	1.084	A	1	A	B
53	T	Styrene	104	7.90	1.086	A	1	A	B
54	T	Isopropylbenzene	105	8.23	1.131	A	1	A	B
55	T	Bromoform	173	8.07	1.110	A	2	A	B

56	I	1,4-Dichlorobenzene-d4	152	9.48	1.000	A	2	A	B
57	S	4-Bromofluorobenzene	95	8.38	0.883	A	2	A	B
58	T	n-Propylbenzene	91	8.63	0.910	A	1	A	B
59	T	Bromobenzene	156	8.51	0.897	A	2	A	B
60	T	1,3,5-Trimethylbenzene	105	8.79	0.927	A	1	A	B
61	T	1,1,2,2-Tetrachloroethane	83	8.53	0.900	A	2	A	B
62	T	1,2,3-Trichloropropane	75	8.57	0.904	A	3	A	R
63	T	2-Chlorotoluene	91	8.70	0.917	A	1	A	B
64	T	4-Chlorotoluene	91	8.81	0.929	A	1	A	B
65	T	tert-Butylbenzene	119	9.10	0.960	A	2	A	B
66	T	1,2,4-Trimethylbenzene	105	9.15	0.965	A	1	A	B
67	T	sec-Butylbenzene	105	9.31	0.982	A	1	A	B
68	T	p-Isopropyltoluene	119	9.46	0.998	A	2	A	B
69	T	1,3-Dichlorobenzene	146	9.42	0.993	A	2	A	B
70	T	1,4-Dichlorobenzene	146	9.50	1.002	A	2	A	B
71	T	1,2-Dichlorobenzene	146	9.86	1.040	A	2	A	B
72	T	1,2-Dibromo-3-chloropropane	75	10.63	1.121	A	2	A	B
73	T	1,2,4-Trichlorobenzene	180	11.44	1.206	A	2	A	B
74	T	Hexachlorobutadiene	225	11.61	1.225	A	2	A	B
75	T	Naphthalene	128	11.68	1.232	A	2	A	B
76	T	1,2,3-Trichlorobenzene	180	11.92	1.257	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

-----

VB121222ms11.M Thu Dec 15 12:13:03 2022

Method Path : D:\Methods\Inst11\  
 Method File : VB121222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Tue Dec 13 13:28:26 2022  
 Response Via : Initial Calibration

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1	0.02	0	10	Y:\Proc_GCMS11\12-12-22\121228.D
2	0.04	0	10	Y:\Proc_GCMS11\12-12-22\121229.D
3	0.1	0	10	Y:\Proc_GCMS11\12-12-22\121230.D
4	0.2	0	10	Y:\Proc_GCMS11\12-12-22\121231.D
5	0.5	1	10	Y:\Proc_GCMS11\12-12-22\121232.D
6	1	1	10	Y:\Proc_GCMS11\12-12-22\121233.D
7	2	2	10	Y:\Proc_GCMS11\12-12-22\121234.D
8	5	5	10	Y:\Proc_GCMS11\12-12-22\121235.D
9	10	10	10	Y:\Proc_GCMS11\12-12-22\121236.D
10	20	20	10	Y:\Proc_GCMS11\12-12-22\121237.D
11	50	50	10	Y:\Proc_GCMS11\12-12-22\121238.D
12	100	100	10	Y:\Proc_GCMS11\12-12-22\121239.D
13	150	150	10	Y:\Proc_GCMS11\12-12-22\121240.D
14	200	200	10	Y:\Proc_GCMS11\12-12-22\121241.D

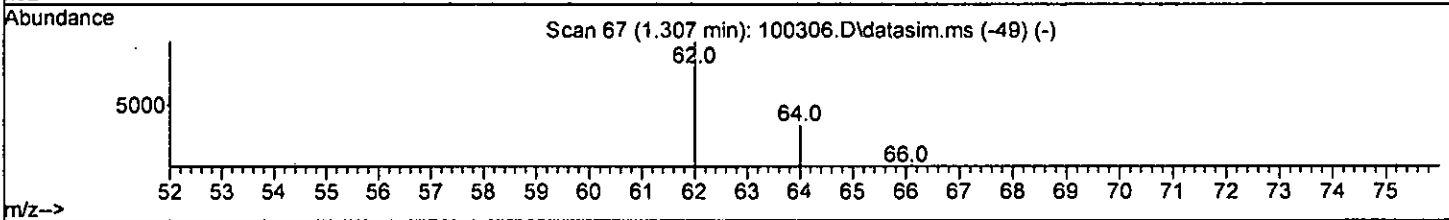
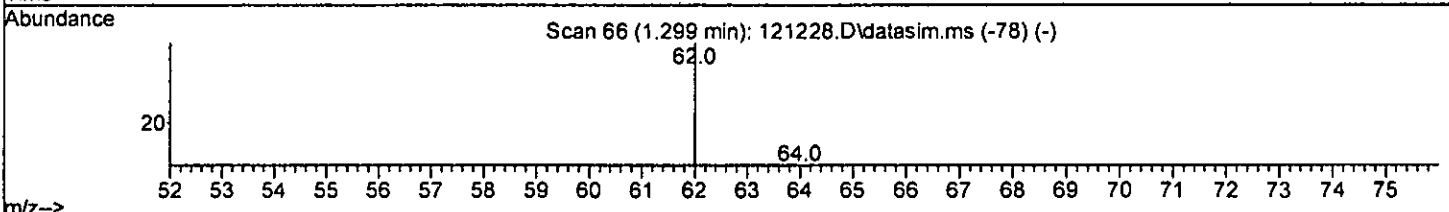
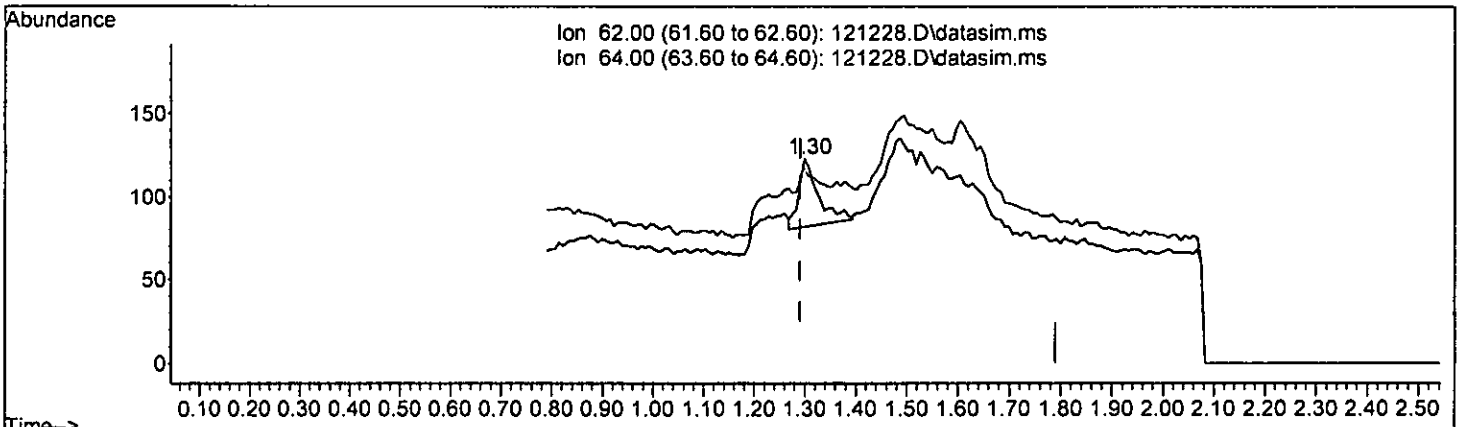
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2	0.04	Dec 13 12:29 2022	Dec 13 12:25 2022	12 Dec 2022 10:59 pm
3	0.1	Dec 13 12:29 2022	Dec 13 12:27 2022	12 Dec 2022 11:21 pm
4	0.2	Dec 13 12:29 2022	Dec 13 12:28 2022	12 Dec 2022 11:44 pm
5	0.5	Dec 13 12:29 2022	Dec 13 12:28 2022	13 Dec 2022 12:06 am
6	1	Dec 13 12:29 2022	Dec 13 12:29 2022	13 Dec 2022 12:29 am
7	2	Dec 13 12:29 2022	Dec 13 12:29 2022	13 Dec 2022 12:51 am
8	5	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 01:14 am
9	10	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 01:36 am
10	20	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 01:58 am
11	50	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 02:21 am
12	100	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 02:43 am
13	150	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 03:06 am
14	200	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 03:28 am

VB121222ms11.M Thu Dec 15 12:13:09 2022

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121228.D\data.ms

(6) Vinyl chloride (TMP)  
 1.299min (+ 0.007) 0.031 ppb

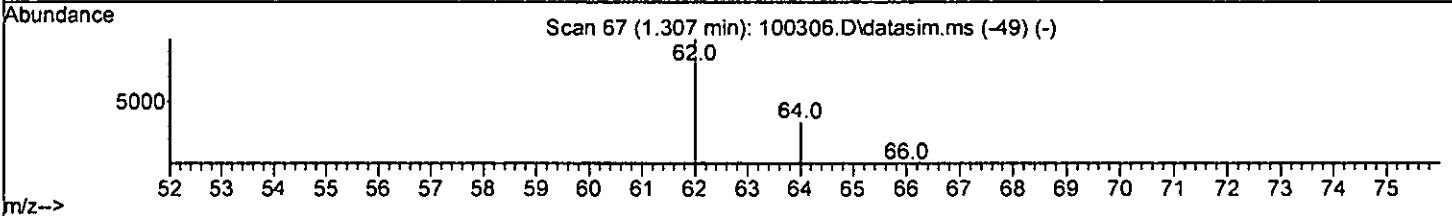
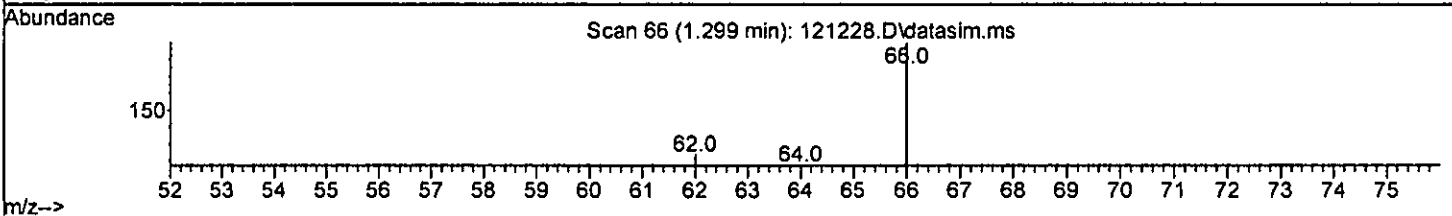
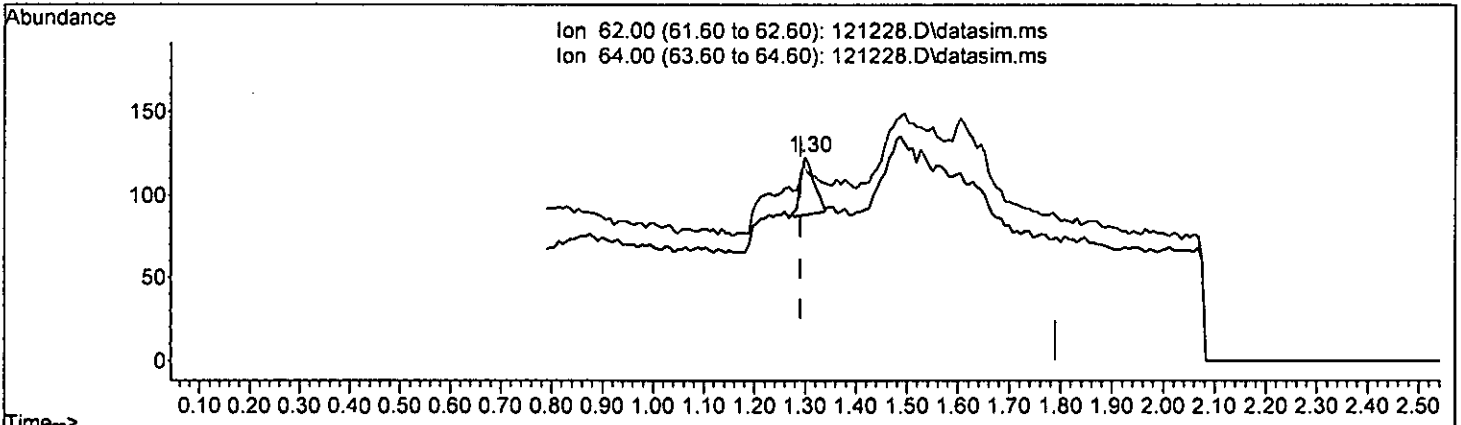
response	112	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	32.43
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten: 12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121228.D\data.ms

(6) Vinyl chloride (TMP)

1.299min (+ 0.007) 0.018 ppb m

response	64		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	95.12#	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 JGM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	10.272	-2.7	100	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.08#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.22#
6 TMP	Vinyl chloride	0.020	0.018	10.0	69	0.00
7 TMP	Bromomethane	-1.000	0.070	0.0	0	0.02
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.79#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.26#
12 TMP	1,1-Dichloroethene	0.020	0.000	100.0#	0	-2.19#
13 TMP	Hexane	-1.000	0.047	0.0	0	0.00
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.73#
16 TMP	Methyl t-butyl ether (MTBE)	0.020	0.000	100.0#	0	-2.83#
17 TMP	trans-1,2-Dichloroethene	0.020	0.000	100.0#	0	-2.82#
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP	1,1-Dichloroethane	0.020	0.000	100.0#	0	-3.18#
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP	2,2-Dichloropropane	-1.000	0.034	0.0	0	0.07
22 TMP	cis-1,2-Dichloroethene	0.020	0.000	100.0#	0	-3.67#
23 TMP	Chloroform	-1.000	0.029	0.0	0	0.00
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.70#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.49#
26 TMP	1,2-Dichloroethane (EDC)	0.020	0.000	100.0#	0	-4.41#
27 TMP	1,1,1-Trichloroethane	0.020	0.000	100.0#	0	-4.08#
28 TMP	1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.22#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S	1,2-Dichloroethane-d4	10.000	9.205	7.9	100	0.00
31 TMP	Benzene	0.020	0.000	100.0#	0	-4.38#
32 TMP	Trichloroethene	0.020	0.000	100.0#	0	-4.93#
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.13#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S	Toluene-d8	10.000	10.061	-0.6	100	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.23#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	-1.000	0.000	0.0	0	-6.03#
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.25#
42 TMP 1,1,2-Trichloroethane	0.020	0.000	100.0#	0	-6.40#
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.020	0.000	100.0#	0	-6.51#
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	-1.000	0.000	0.0	0	-6.85#
48 TMP Chlorobenzene	-1.000	0.035	0.0	0	0.00
49 TMP Ethylbenzene	0.020	0.000	100.0#	0	-7.40#
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.040	0.000	100.0#	0	-7.51#
52 TMP o-Xylene	0.020	0.000	100.0#	0	-7.88#
53 TMP Styrene	-1.000	0.042	0.0	0	0.00
54 TMP Isopropylbenzene	-1.000	0.030	0.0	0	0.00
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.07#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.636	3.6	100	0.00
58 TMP n-Propylbenzene	-1.000	0.036	0.0	0	0.00
59 TMP Bromobenzene	-1.000	0.034	0.0	0	0.00
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.024	0.0	0	0.00
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.042	0.0	0	0.00
63 TMP 2-Chlorotoluene	-1.000	0.024	0.0	0	0.00
64 TMP 4-Chlorotoluene	-1.000	0.033	0.0	0	0.00
65 TMP tert-Butylbenzene	-1.000	0.015	0.0	0	0.00
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.042	0.0	0	0.00
67 TMP sec-Butylbenzene	-1.000	0.028	0.0	0	0.00
68 TMP p-Isopropyltoluene	-1.000	0.028	0.0	0	0.00
69 TMP 1,3-Dichlorobenzene	-1.000	0.033	0.0	0	0.00
70 TMP 1,4-Dichlorobenzene	-1.000	0.030	0.0	0	0.00
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-9.86#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.047	0.0	0	0.00
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.61#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.92#



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.271	-2.7	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.000#	100.0#	0#	-1.08#
5 TMP Chloromethane	0.883	0.000#	100.0#	0#	-1.22#
6 TMP Vinyl chloride	0.732	0.652	10.9	69	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	0.02
8 TMP Chloroethane	0.336	0.000#	100.0#	0#	-1.59#
9 TMP Trichlorofluoromethane	0.870	0.000#	100.0#	0#	-1.79#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.000#	100.0#	0#	-2.26#
12 TMP 1,1-Dichloroethene	0.240	0.000#	100.0#	0#	-2.19#
13 TMP Hexane	0.434	0.000#	100.0#	0#	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.000#	100.0#	0#	-2.83#
17 TMP trans-1,2-Dichloroethene	0.272	0.000#	100.0#	0#	-2.82#
18 TMP Diisopropyl ether (DIPE)	0.932	0.000#	100.0#	0#	-3.24#
19 TMP 1,1-Dichloroethane	0.504	0.000#	100.0#	0#	-3.18#
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.000#	100.0#	0#	-3.55#
21 TMP 2,2-Dichloropropane	0.316	0.000#	100.0#	0#	0.07
22 TMP cis-1,2-Dichloroethene	0.286	0.000#	100.0#	0#	-3.67#
23 TMP Chloroform	0.477	0.000#	100.0#	0#	0.00
24 TMP 2-Butanone (MEK)	0.183	0.000#	100.0#	0#	-3.70#
25 TMP t-Amyl methyl ether (TAME)	0.694	0.000#	100.0#	0#	-4.49#
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.000#	100.0#	0#	-4.41#
27 TMP 1,1,1-Trichloroethane	0.440	0.000#	100.0#	0#	-4.08#
28 TMP 1,1-Dichloropropene	0.362	0.000#	100.0#	0#	-4.22#
29 TMP Carbon tetrachloride	0.367	0.000#	100.0#	0#	-4.21#
30 S 1,2-Dichloroethane-d4	0.060	0.056	6.7	100	0.00
31 TMP Benzene	0.999	0.000#	100.0#	0#	-4.38#
32 TMP Trichloroethene	0.316	0.000#	100.0#	0#	-4.93#
33 TMP 1,2-Dichloropropane	0.296	0.000#	100.0#	0#	-5.13#
34 TMP Bromodichloromethane	0.357	0.000#	100.0#	0#	-5.37#
35 S Toluene-d8	0.960	0.966	-0.6	100	0.00
36 TMP Dibromomethane	0.169	0.000#	100.0#	0#	-5.23#
37 TMP 4-Methyl-2-pentanone	0.052	0.000#	100.0#	0#	-5.91#
38 TMP cis-1,3-Dichloropropene	0.429	0.000#	100.0#	0#	-5.75#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCM511\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.000#	100.0#	0#	-6.03#
41 TMP trans-1,3-Dichloropropene	0.484	0.000#	100.0#	0#	-6.25#
42 TMP 1,1,2-Trichloroethane	0.264	0.000#	100.0#	0#	-6.40#
43 TMP 2-Hexanone	0.335	0.000#	100.0#	0#	-6.64#
44 TMP 1,3-Dichloropropane	0.470	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.342	0.000#	100.0#	0#	-6.51#
46 TMP Dibromochloromethane	0.354	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.000#	100.0#	0#	-6.85#
48 TMP Chlorobenzene	0.925	0.000#	100.0#	0#	0.00
49 TMP Ethylbenzene	1.611	0.000#	100.0#	0#	-7.40#
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.607	0.000#	100.0#	0#	-7.51#
52 TMP o-Xylene	0.595	0.000#	100.0#	0#	-7.88#
53 TMP Styrene	0.973	0.000#	100.0#	0#	0.00
54 TMP Isopropylbenzene	1.564	0.000#	100.0#	0#	0.00
55 TMP Bromoform	0.252	0.000#	100.0#	0#	-8.07#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.814	3.6	100	0.00
58 TMP n-Propylbenzene	3.281	0.000#	100.0#	0#	0.00
59 TMP Bromobenzene	0.770	0.000#	100.0#	0#	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	0.000#	100.0#	0#	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.586	0.000#	100.0#	0#	0.00
63 TMP 2-Chlorotoluene	1.941	0.000#	100.0#	0#	0.00
64 TMP 4-Chlorotoluene	2.281	0.000#	100.0#	0#	0.00
65 TMP tert-Butylbenzene	2.141	0.000#	100.0#	0#	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	0.000#	100.0#	0#	0.00
67 TMP sec-Butylbenzene	3.103	0.000#	100.0#	0#	0.00
68 TMP p-Isopropyltoluene	2.672	0.000#	100.0#	0#	0.00
69 TMP 1,3-Dichlorobenzene	1.434	0.000#	100.0#	0#	0.00
70 TMP 1,4-Dichlorobenzene	1.461	0.000#	100.0#	0#	0.00
71 TMP 1,2-Dichlorobenzene	1.380	0.000#	100.0#	0#	-9.86#
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.000#	100.0#	0#	0.00
74 TMP Hexachlorobutadiene	0.542	0.000#	100.0#	0#	-11.61#
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.000#	100.0#	0#	-11.92#

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	49049	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	38410	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	21826	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	13293	10.272	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	102.70%	
30) 1,2-Dichloroethane-d4	4.36	102	2724	9.205	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery	=	92.10%	
35) Toluene-d8	5.98	98	47379	10.061	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery	=	100.60%	
57) 4-Bromofluorobenzene	8.38	95	17756	9.636	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery	=	96.40%	
Target Compounds						
						Qvalue
2) Ethanol	0.00		0			N.D.
4) Dichlorodifluoromethane	0.00		0			N.D.
5) Chloromethane	0.00		0			N.D.
6] Vinyl chloride	1.30	62	64m	0.018	ppb	
7) Bromomethane	1.56	94	127			N.D.
8) Chloroethane	0.00		0			N.D.
9) Trichlorofluoromethane	0.00		0			N.D.
10) 2-Propanol	2.40	45	215			No Calib
11) Acetone	0.00		0			N.D.
12) 1,1-Dichloroethene	0.00		0			N.D.
13) Hexane	3.05	57	99			N.D.
14) Methylene chloride	0.00		0			N.D. d
15) t-Butyl alcohol (TBA)	0.00		0			N.D.
16) Methyl t-butyl ether (...)	0.00		0			N.D. d
17) trans-1,2-Dichloroethene	0.00		0			N.D.
18) Diisopropyl ether (DIPE)	0.00		0			N.D.
19) 1,1-Dichloroethane	0.00		0			N.D. d
20) Ethyl t-butyl ether (E...)	0.00		0			N.D.
21) 2,2-Dichloropropane	3.73	77	52			N.D.
22) cis-1,2-Dichloroethene	0.00		0			N.D.
23) Chloroform	3.94	83	68			N.D.
24) 2-Butanone (MEK)	0.00		0			N.D. d
25) t-Amyl methyl ether (T...)	0.00		0			N.D.
26) 1,2-Dichloroethane (EDC)	0.00		0			N.D. d
27) 1,1,1-Trichloroethane	0.00		0			N.D.
28) 1,1-Dichloropropene	0.00		0			N.D.
29) Carbon tetrachloride	0.00		0			N.D.

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

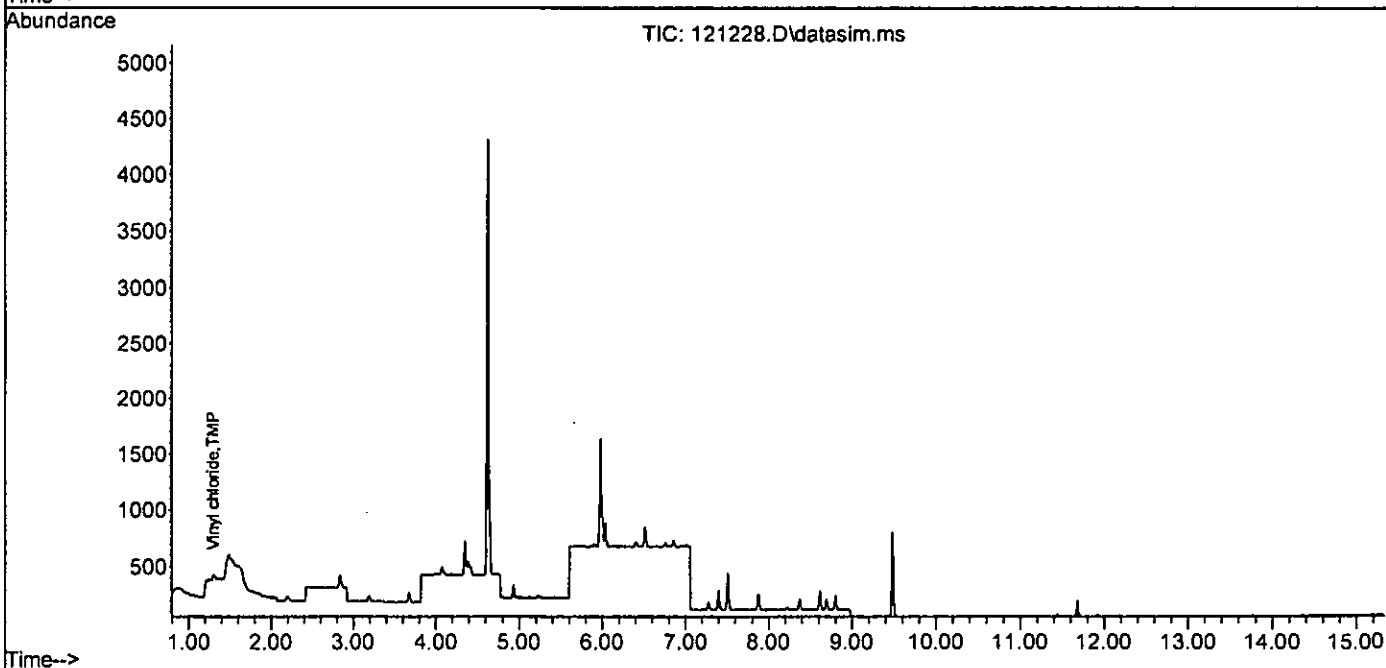
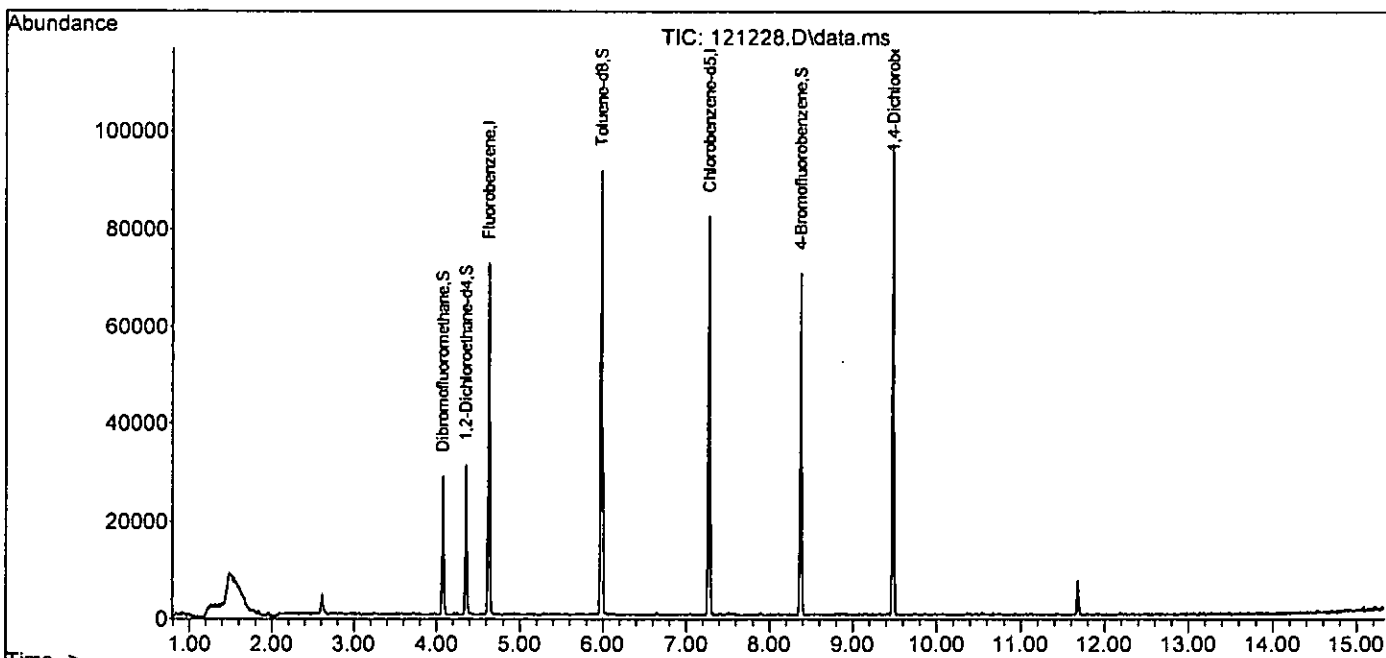
Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzene	0.00		0	N.D.	d	
32) Trichloroethene	0.00		0	N.D.		
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	0.00		0	N.D.		
40) Toluene	0.00		0	N.D.	d	
41) trans-1,3-Dichloropropene	0.00		0	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.		
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.		
45) Tetrachloroethene	0.00		0	N.D.	d	
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.		
48) Chlorobenzene	7.29	112	123	N.D.		
49) Ethylbenzene	0.00		0	N.D.	d	
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51) m,p-Xylene	0.00		0	N.D.	d	
52) o-Xylene	0.00		0	N.D.	d	
53) Styrene	7.90	104	157	N.D.		
54) Isopropylbenzene	8.23	105	181	N.D.		
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	8.62	91	259	N.D.		
59) Bromobenzene	8.52	156	58	N.D.		
60) 1,3,5-Trimethylbenzene	8.80	105	129	N.D.		
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	8.57	75	54	N.D.		
63) 2-Chlorotoluene	8.69	91	101	N.D.		
64) 4-Chlorotoluene	8.81	91	164	N.D.		
65) tert-Butylbenzene	9.11	119	69	N.D.		
66) 1,2,4-Trimethylbenzene	9.15	105	225	N.D.		
67) sec-Butylbenzene	9.32	105	193	N.D.		
68) p-Isopropyltoluene	9.46	119	165	N.D.		
69) 1,3-Dichlorobenzene	9.41	146	103	N.D.		
70) 1,4-Dichlorobenzene	9.50	146	96	N.D.		
71) 1,2-Dichlorobenzene	0.00		0	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	11.44	180	100	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121228.D  
Acq On : 12 Dec 2022 10:36 pm  
Operator : LM  
Sample : 0.02 ppb 8260 ICAL 68-25F  
Misc : soil/water  
ALS Vial : 6 Sample Multiplier: 1  
InstName : GCMS11

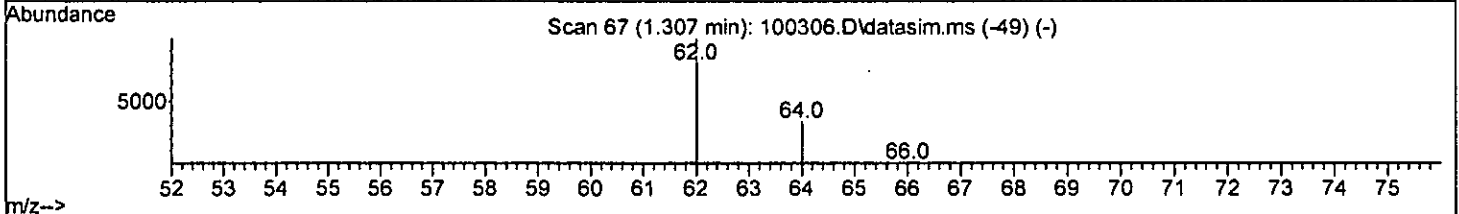
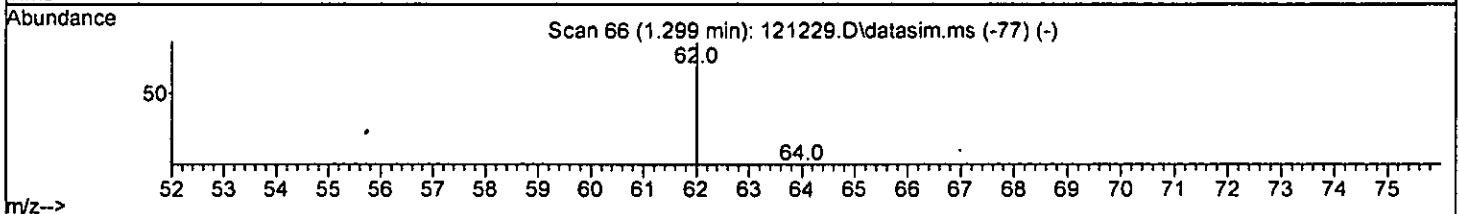
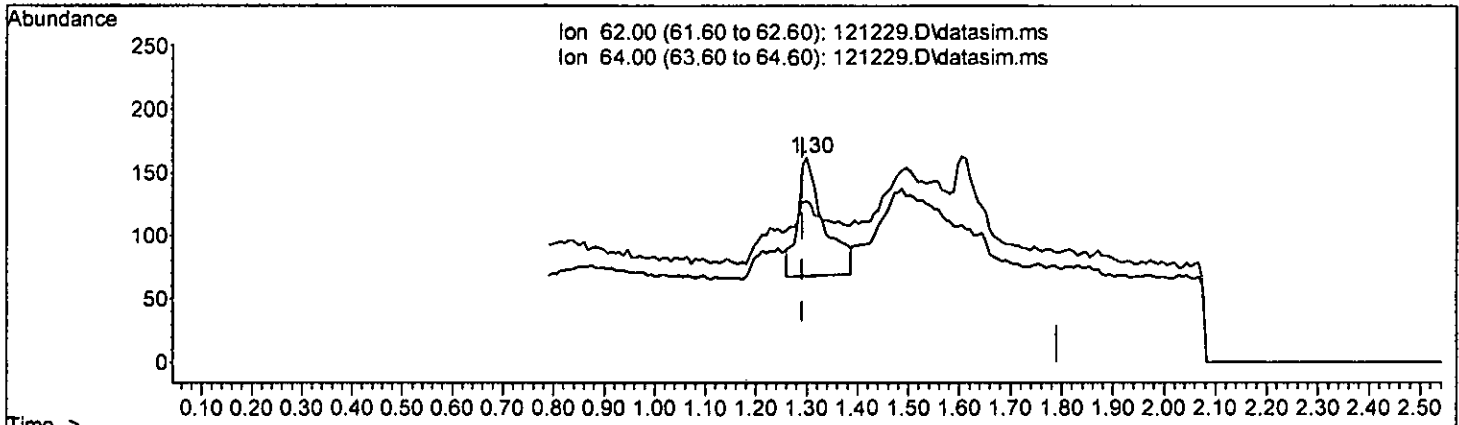
Quant Time: Dec 15 11:21:34 2022  
Quant Method : D:\Methods\Inst11\VB121222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Tue Dec 13 13:28:26 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121229.D\data.ms

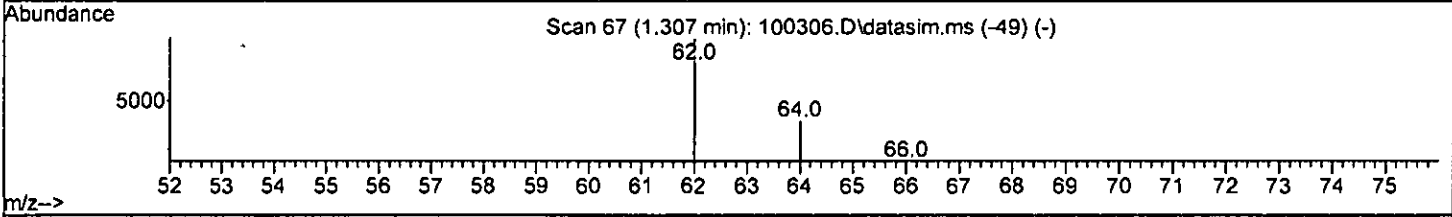
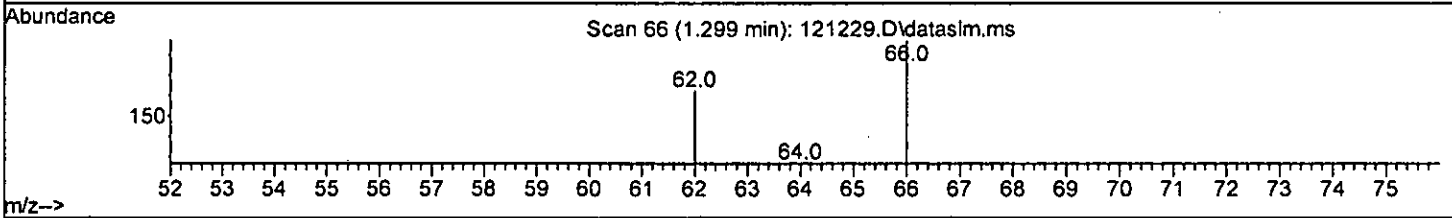
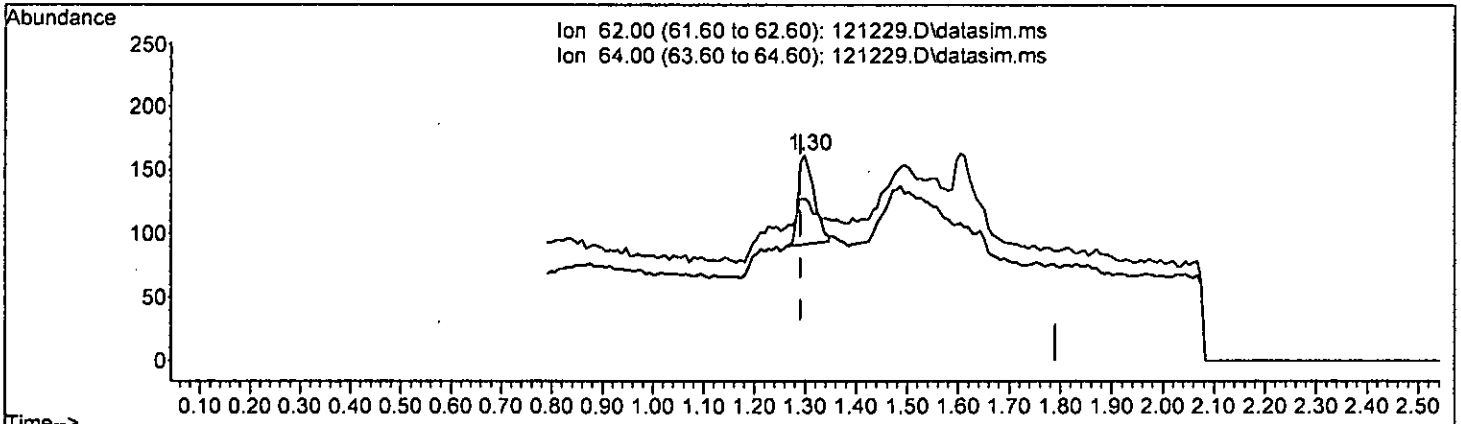
(6) Vinyl chloride (TMP)			
1.299min (+ 0.007) 0.095 ppb			
response	335		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	31.51	
0.00	0.00	0.00	
0.00	0.00	0.00	

*M/S LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121229.D\data.ms

(6) Vinyl chloride (TMP)			
1.299min (+ 0.007) 0.042 ppb m			
response	150		
Ion	Exp%	Act%	
62.00	100.00	100.00	<i>12/15 LM</i>
64.00	28.80	78.40#	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.03
3 S Dibromofluoromethane	10.000	10.659	-6.6	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.037	0.0	0	0.00
5 TMP Chloromethane	-1.000	0.158	0.0	0	0.02
6 TMP Vinyl chloride	0.040	0.042	-5.0	102	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP Trichlorofluoromethane	-1.000	0.041	0.0	0	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	-1.000	0.000	0.0	0	-2.26#
12 TMP 1,1-Dichloroethene	0.040	0.000	100.0#	0	-2.19#
13 TMP Hexane	-1.000	0.073	0.0	0	0.02
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.040	0.000	100.0#	0	-2.83#
17 TMP trans-1,2-Dichloroethene	0.040	0.000	100.0#	0	-2.82#
18 TMP Diisopropyl ether (DIPE)	-1.000	0.046	0.0	0	0.00
19 TMP 1,1-Dichloroethane	0.040	0.000	100.0#	0	-3.18#
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.66#
22 TMP cis-1,2-Dichloroethene	0.040	0.000	100.0#	0	-3.67#
23 TMP Chloroform	-1.000	0.081	0.0	0	0.00
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.70#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.040	0.0	0	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.040	0.000	100.0#	0	-4.41#
27 TMP 1,1,1-Trichloroethane	0.040	0.000	100.0#	0	-4.08#
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.22#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S 1,2-Dichloroethane-d4	10.000	10.305	-3.0	100	0.00
31 TMP Benzene	0.040	0.000	100.0#	0	-4.38#
32 TMP Trichloroethene	0.040	0.000	100.0#	0	-4.93#
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.13#
34 TMP Bromodichloromethane	-1.000	0.082	0.0	0	0.00
35 S Toluene-d8	10.000	10.150	-1.5	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.23#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP cis-1,3-Dichloropropene	-1.000	0.075	0.0	0	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.040	0.000	100.0#	0	-6.03#
41 TMP trans-1,3-Dichloropropene	-1.000	0.053	0.0	0	0.01
42 TMP 1,1,2-Trichloroethane	0.040	0.071	-77.5#	0	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.040	0.000	100.0#	0	-6.51#
46 TMP Dibromochloromethane	-1.000	0.084	0.0	0	0.01
47 TMP 1,2-Dibromoethane (EDB)	-1.000	0.000	0.0	0	-6.85#
48 TMP Chlorobenzene	-1.000	0.074	0.0	0	0.00
49 TMP Ethylbenzene	0.040	0.000	100.0#	0	-7.40#
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.080	0.000	100.0#	0	-7.51#
52 TMP o-Xylene	0.040	0.000	100.0#	0	-7.88#
53 TMP Styrene	-1.000	0.000	0.0	0	-7.90#
54 TMP Isopropylbenzene	-1.000	0.093	0.0	0	0.00
55 TMP Bromoform	-1.000	0.057	0.0	0	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.043	-0.4	100	0.00
58 TMP n-Propylbenzene	-1.000	0.085	0.0	0	0.00
59 TMP Bromobenzene	-1.000	0.059	0.0	0	0.00
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.076	0.0	0	0.00
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.053	0.0	0	0.00
63 TMP 2-Chlorotoluene	-1.000	0.088	0.0	0	0.00
64 TMP 4-Chlorotoluene	-1.000	0.080	0.0	0	0.00
65 TMP tert-Butylbenzene	-1.000	0.064	0.0	0	0.00
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.093	0.0	0	0.00
67 TMP sec-Butylbenzene	-1.000	0.078	0.0	0	0.00
68 TMP p-Isopropyltoluene	-1.000	0.078	0.0	0	0.00
69 TMP 1,3-Dichlorobenzene	-1.000	0.091	0.0	0	0.08
70 TMP 1,4-Dichlorobenzene	-1.000	0.089	0.0	0	0.00
71 TMP 1,2-Dichlorobenzene	-1.000	0.088	0.0	0	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.088	0.0	0	0.00
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.61#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.084	0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.03
3 S Dibromofluoromethane	0.264	0.281	-6.4	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.000#	100.0#	0#	0.00
5 TMP Chloromethane	0.883	0.000#	100.0#	0#	0.02
6 TMP Vinyl chloride	0.732	0.777	-6.1	102	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP Chloroethane	0.336	0.000#	100.0#	0#	-1.59#
9 TMP Trichlorofluoromethane	0.870	0.000#	100.0#	0#	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.000#	100.0#	0#	-2.26#
12 TMP 1,1-Dichloroethene	0.240	0.000#	100.0#	0#	-2.19#
13 TMP Hexane	0.434	0.000#	100.0#	0#	0.02
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.000#	100.0#	0#	-2.83#
17 TMP trans-1,2-Dichloroethene	0.272	0.000#	100.0#	0#	-2.82#
18 TMP Diisopropyl ether (DIPE)	0.932	0.000#	100.0#	0#	0.00
19 TMP 1,1-Dichloroethane	0.504	0.000#	100.0#	0#	-3.18#
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.000#	100.0#	0#	-3.55#
21 TMP 2,2-Dichloropropane	0.316	0.000#	100.0#	0#	-3.66#
22 TMP cis-1,2-Dichloroethene	0.286	0.000#	100.0#	0#	-3.67#
23 TMP Chloroform	0.477	0.000#	100.0#	0#	0.00
24 TMP 2-Butanone (MEK)	0.183	0.000#	100.0#	0#	-3.70#
25 TMP t-Amyl methyl ether (TAME)	0.694	0.000#	100.0#	0#	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.000#	100.0#	0#	-4.41#
27 TMP 1,1,1-Trichloroethane	0.440	0.000#	100.0#	0#	-4.08#
28 TMP 1,1-Dichloropropene	0.362	0.000#	100.0#	0#	-4.22#
29 TMP Carbon tetrachloride	0.367	0.000#	100.0#	0#	-4.21#
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.999	0.000#	100.0#	0#	-4.38#
32 TMP Trichloroethene	0.316	0.000#	100.0#	0#	-4.93#
33 TMP 1,2-Dichloropropane	0.296	0.000#	100.0#	0#	-5.13#
34 TMP Bromodichloromethane	0.357	0.000#	100.0#	0#	0.00
35 S Toluene-d8	0.960	0.975	-1.6	100	0.00
36 TMP Dibromomethane	0.169	0.000#	100.0#	0#	-5.23#
37 TMP 4-Methyl-2-pentanone	0.052	0.000#	100.0#	0#	-5.91#
38 TMP cis-1,3-Dichloropropene	0.429	0.000#	100.0#	0#	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.000#	100.0#	0#	-6.03#
41 TMP trans-1,3-Dichloropropene	0.484	0.000#	100.0#	0#	0.01
42 TMP 1,1,2-Trichloroethane	0.264	0.466	-76.5#	0#	0.00
43 TMP 2-Hexanone	0.335	0.000#	100.0#	0#	-6.64#
44 TMP 1,3-Dichloropropane	0.470	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.342	0.000#	100.0#	0#	-6.51#
46 TMP Dibromochloromethane	0.354	0.000#	100.0#	0#	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.000#	100.0#	0#	-6.85#
48 TMP Chlorobenzene	0.925	0.000#	100.0#	0#	0.00
49 TMP Ethylbenzene	1.611	0.000#	100.0#	0#	-7.40#
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.607	0.000#	100.0#	0#	-7.51#
52 TMP o-Xylene	0.595	0.000#	100.0#	0#	-7.88#
53 TMP Styrene	0.973	0.000#	100.0#	0#	-7.90#
54 TMP Isopropylbenzene	1.564	0.000#	100.0#	0#	0.00
55 TMP Bromoform	0.252	0.000#	100.0#	0#	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.848	-0.5	100	0.00
58 TMP n-Propylbenzene	3.281	0.000#	100.0#	0#	0.00
59 TMP Bromobenzene	0.770	0.000#	100.0#	0#	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	0.000#	100.0#	0#	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.586	0.000#	100.0#	0#	0.00
63 TMP 2-Chlorotoluene	1.941	0.000#	100.0#	0#	0.00
64 TMP 4-Chlorotoluene	2.281	0.000#	100.0#	0#	0.00
65 TMP tert-Butylbenzene	2.141	0.000#	100.0#	0#	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	0.000#	100.0#	0#	0.00
67 TMP sec-Butylbenzene	3.103	0.000#	100.0#	0#	0.00
68 TMP p-Isopropyltoluene	2.672	0.000#	100.0#	0#	0.00
69 TMP 1,3-Dichlorobenzene	1.434	0.000#	100.0#	0#	0.08
70 TMP 1,4-Dichlorobenzene	1.461	0.000#	100.0#	0#	0.00
71 TMP 1,2-Dichlorobenzene	1.380	0.000#	100.0#	0#	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.000#	100.0#	0#	0.00
74 TMP Hexachlorobutadiene	0.542	0.000#	100.0#	0#	-11.61#
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.000#	100.0#	0#	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	48253	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38658	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21365	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	13570	10.659	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	106.60%	
30) 1,2-Dichloroethane-d4	4.36	102	3000	10.305	ppb	0.00	
Spiked Amount	10.000	Range	79 - 128	Recovery	=	103.10%	
35) Toluene-d8	5.98	98	47024	10.150	ppb	0.00	
Spiked Amount	10.000	Range	84 - 121	Recovery	=	101.50%	
57) 4-Bromofluorobenzene	8.38	95	18115	10.043	ppb	0.00	
Spiked Amount	10.000	Range	84 - 116	Recovery	=	100.40%	
<b>Target Compounds</b>							
2) Ethanol	1.89	45	109	No Calib			Qvalue
4) Dichlorodifluoromethane	1.09	85	122	N.D.			
5) Chloromethane	1.23	50	674	N.D.			
6) Vinyl chloride	1.30	62	150m	0.042	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	1.79	101	172	N.D.			
10) 2-Propanol	2.40	45	256	No Calib			
11) Acetone	0.00		0	N.D.			
12) 1,1-Dichloroethene	0.00		0	N.D.	d		
13) Hexane	3.06	57	153	N.D.			
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.	d		
17) trans-1,2-Dichloroethene	0.00		0	N.D.	d		
18) Diisopropyl ether (DIPE)	3.25	45	209	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.	d		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22) cis-1,2-Dichloroethene	0.00		0	N.D.	d		
23) Chloroform	3.95	83	187	N.D.			
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.50	73	133	N.D.			
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d		
27) 1,1,1-Trichloroethane	0.00		0	N.D.	d		
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

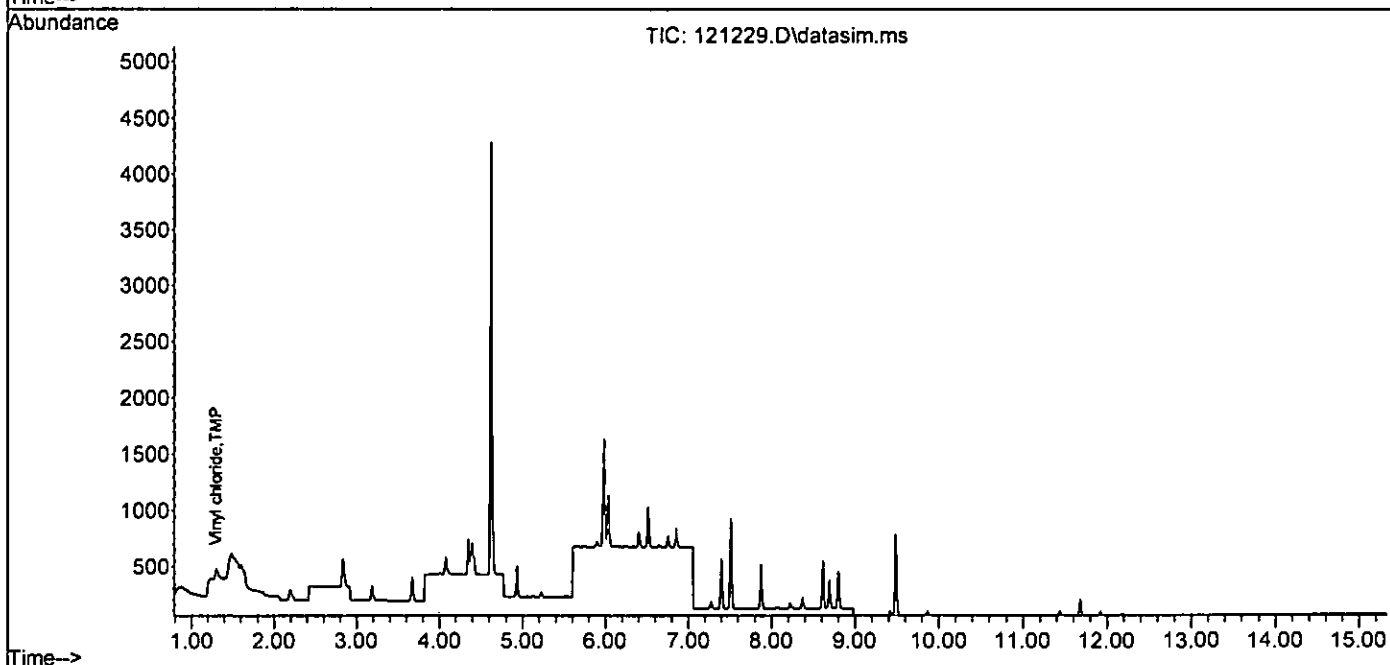
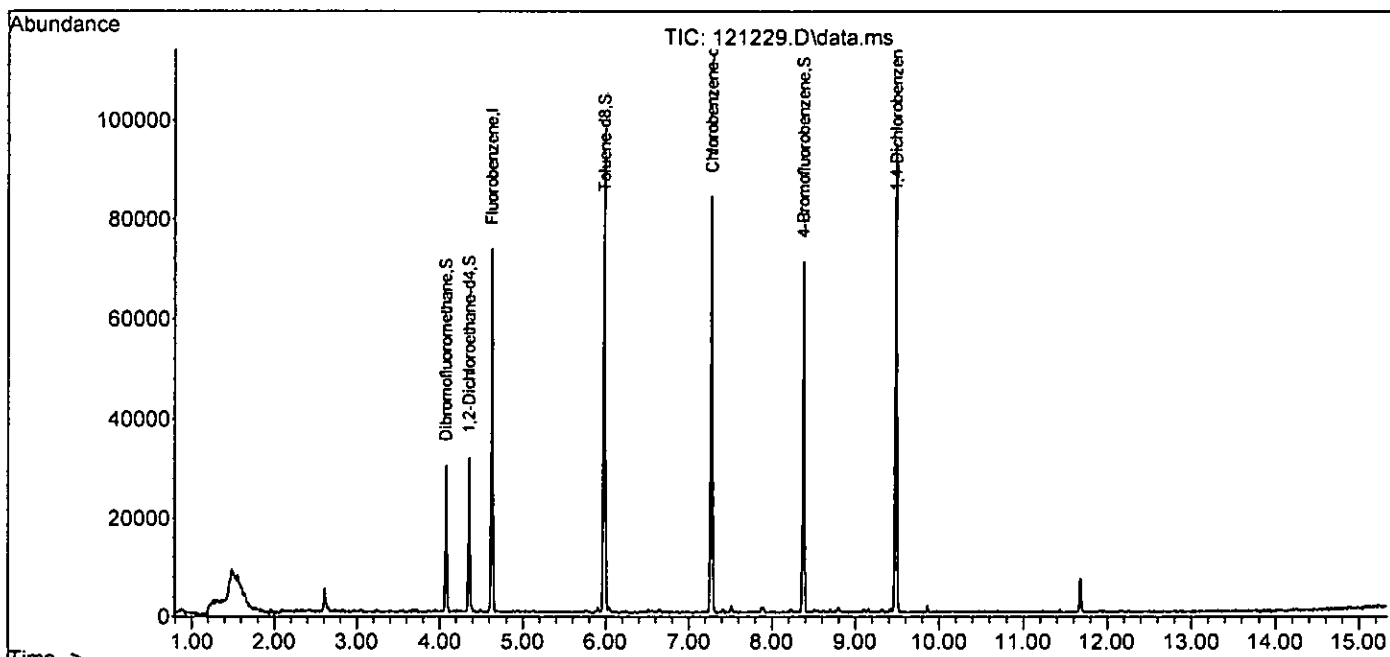
Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzene	0.00		0	N.D.	d	
32) Trichloroethene	0.00		0	N.D.	d	
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	5.37	83	141	N.D.		
36) Dibromomethane	0.00		0	N.D.		
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	5.75	75	155	N.D.		
40) Toluene	0.00		0	N.D.	d	
41) trans-1,3-Dichloropropene	6.26	75	99	N.D.		
42) 1,1,2-Trichloroethane	6.40	83	72	N.D.		
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45) Tetrachloroethene	0.00		0	N.D.	d	
46) Dibromochloromethane	6.76	129	115	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	d	
48) Chlorobenzene	7.29	112	263	N.D.		
49) Ethylbenzene	0.00		0	N.D.	d	
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51) m,p-Xylene	0.00		0	N.D.	d	
52) o-Xylene	0.00		0	N.D.	d	
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	8.23	105	561	N.D.		
55) Bromoform	8.07	173	56	N.D.		
58) n-Propylbenzene	8.62	91	594	N.D.		
59) Bromobenzene	8.52	156	97	N.D.		
60) 1,3,5-Trimethylbenzene	8.80	105	399	N.D.		
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	8.58	75	66	N.D.		
63) 2-Chlorotoluene	8.70	91	365	N.D.		
64) 4-Chlorotoluene	8.81	91	389	N.D.		
65) tert-Butylbenzene	9.10	119	295	N.D.		
66) 1,2,4-Trimethylbenzene	9.15	105	492	N.D.		
67) sec-Butylbenzene	9.32	105	519	N.D.		
68) p-Isopropyltoluene	9.46	119	448	N.D.		
69) 1,3-Dichlorobenzene	9.50	146	278	N.D.		
70) 1,4-Dichlorobenzene	9.50	146	278	N.D.		
71) 1,2-Dichlorobenzene	9.87	146	258	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	11.44	180	184	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	11.91	180	162	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121229.D  
Acq On : 12 Dec 2022 10:59 pm  
Operator : LM  
Sample : 0.04 ppb 8260 ICAL 68-25G  
Misc : soil/water  
ALS Vial : 7 Sample Multiplier: 1  
InstName : GCMS11

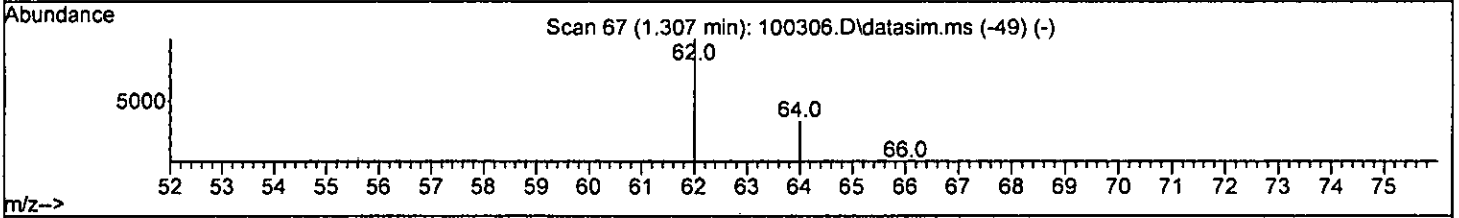
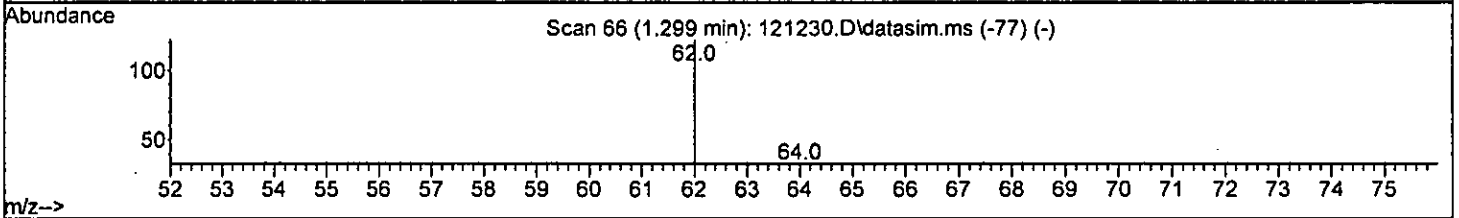
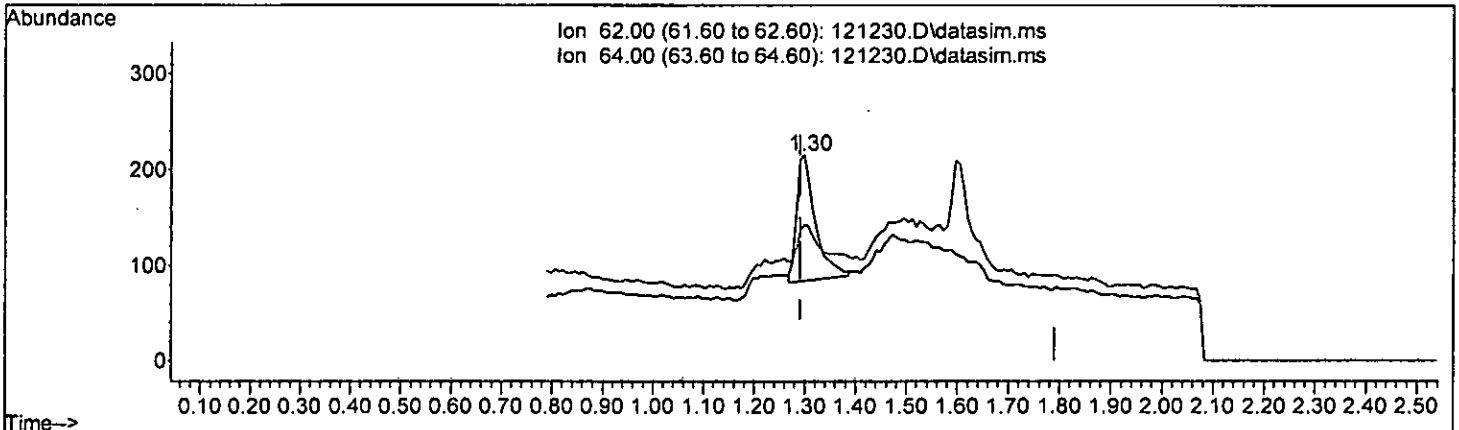
Quant Time: Dec 15 11:21:37 2022  
Quant Method : D:\Methods\Inst11\VB121222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Tue Dec 13 13:28:26 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

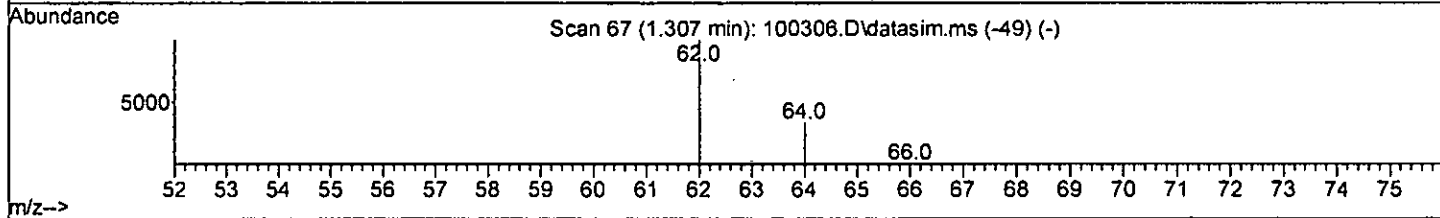
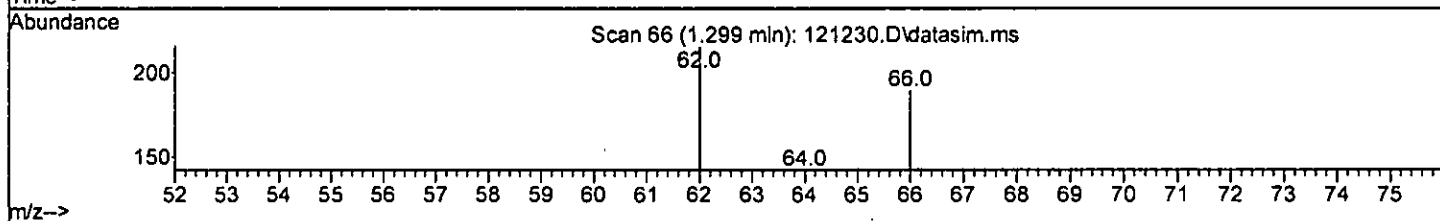
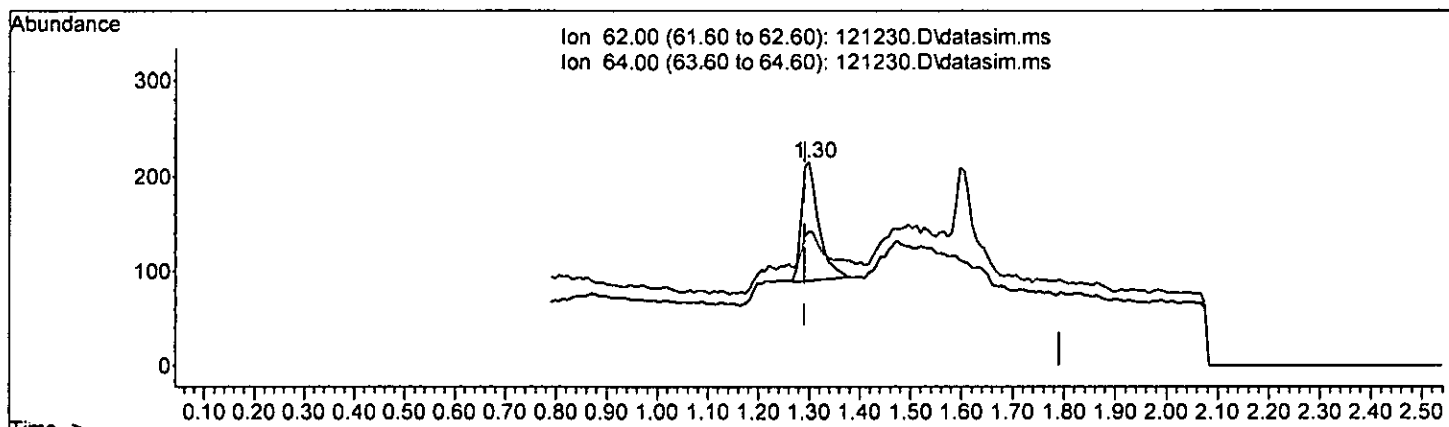
(6) Vinyl chloride (TMP)			
1.299min (+ 0.007) 0.091 ppb			
response	331		
Ion	Expt%	Act%	
62.00	100.00	100.00	
64.00	28.80	30.16	
0.00	0.00	0.00	
0.00	0.00	0.00	

*LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(6) Vinyl chloride (TMP)			
1.299min (+ 0.007) 0.081 ppb m			
response	294		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	66.05#	
0.00	0.00	0.00	
0.00	0.00	0.00	

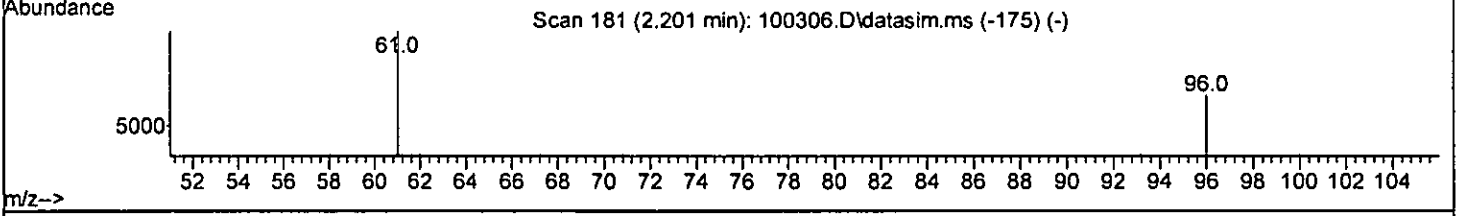
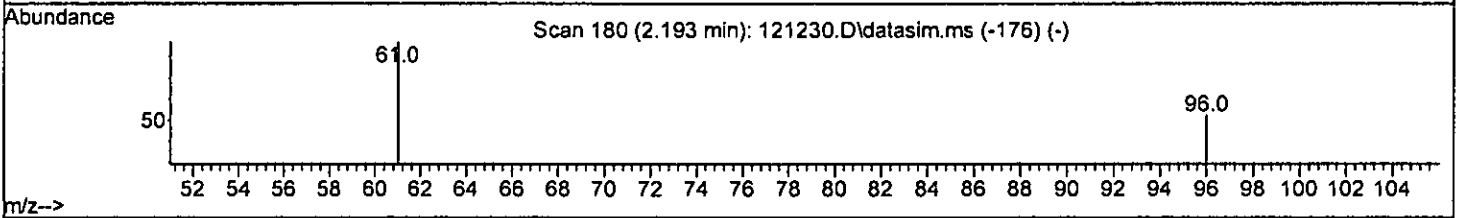
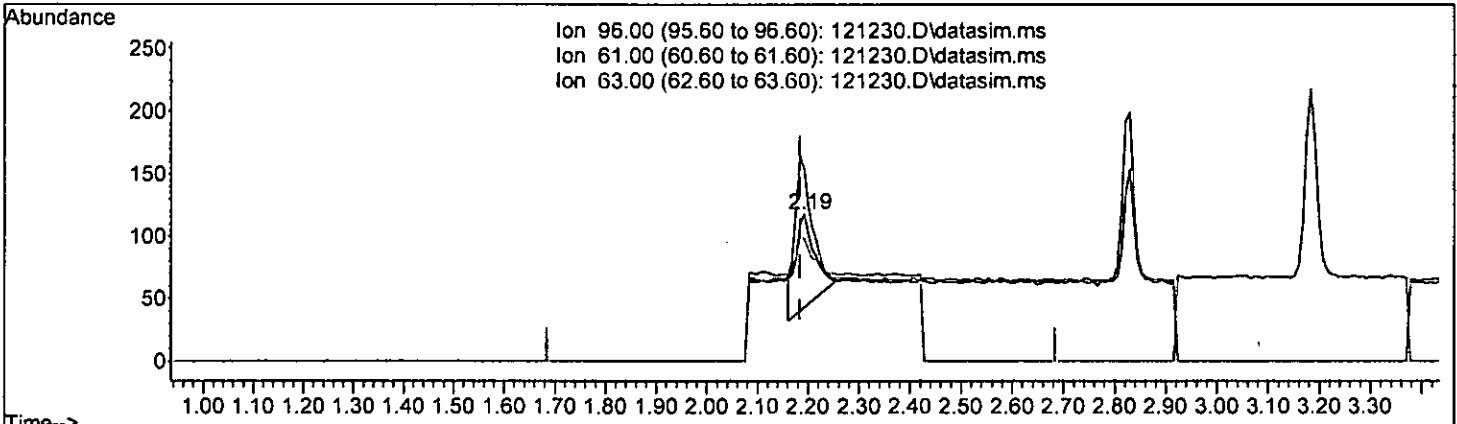
*12/15 LM*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(12) 1,1-Dichloroethane (TMP)  
 2.193min (+ 0.008) 0.166 ppb

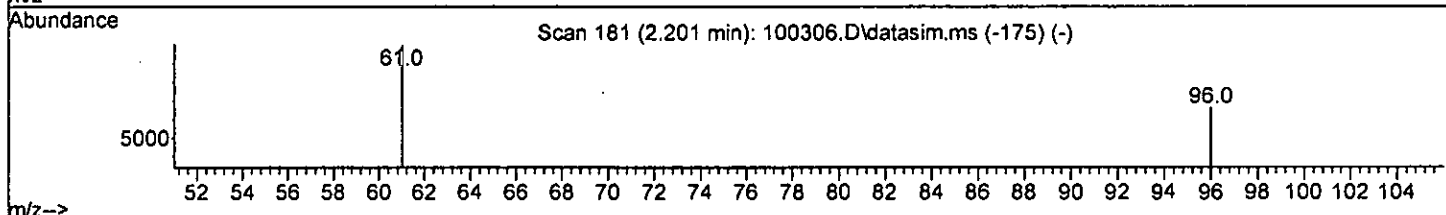
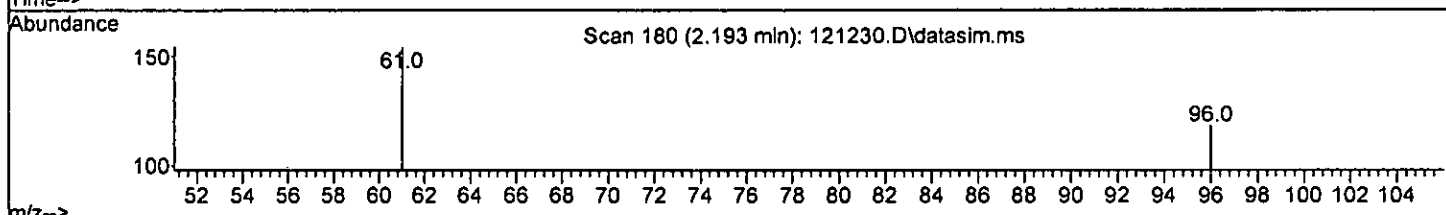
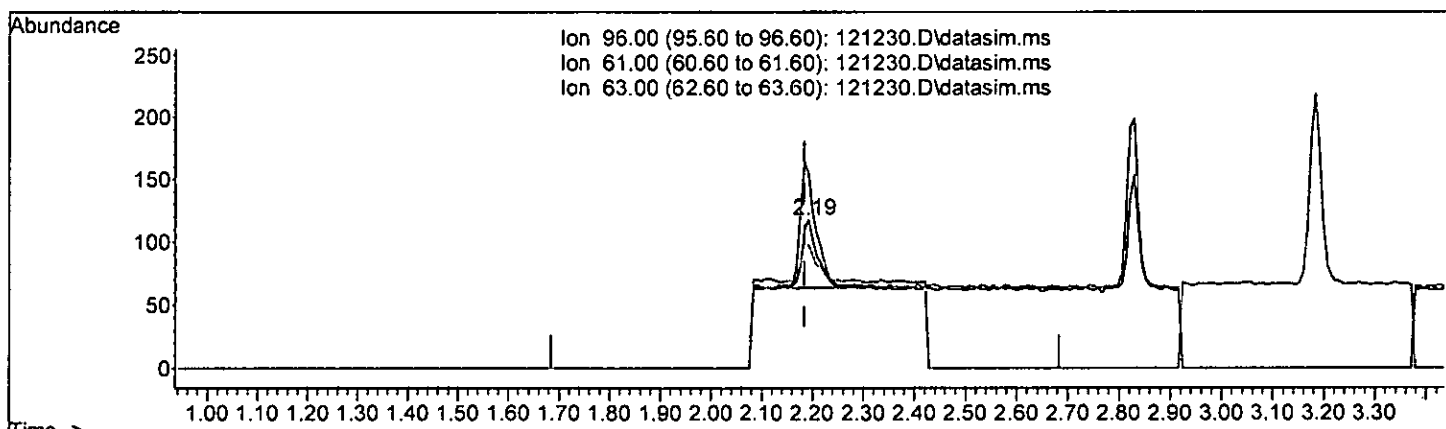
response	199		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	160.00	162.96	
63.00	53.70	53.70	
0.00	0.00	0.00	

*Handwritten note: 12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.193min (+ 0.008) 0.090 ppb m

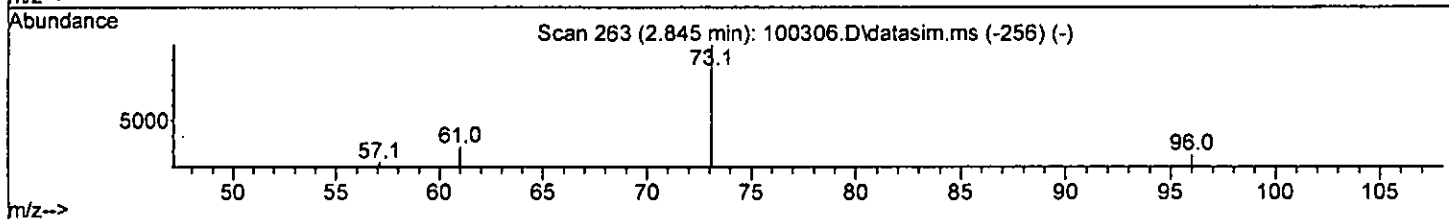
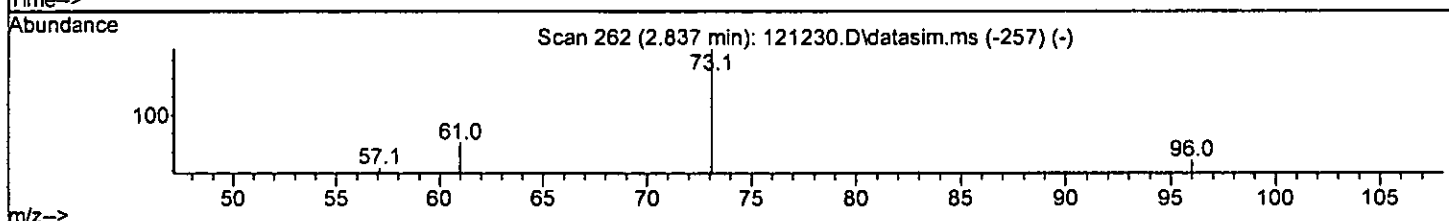
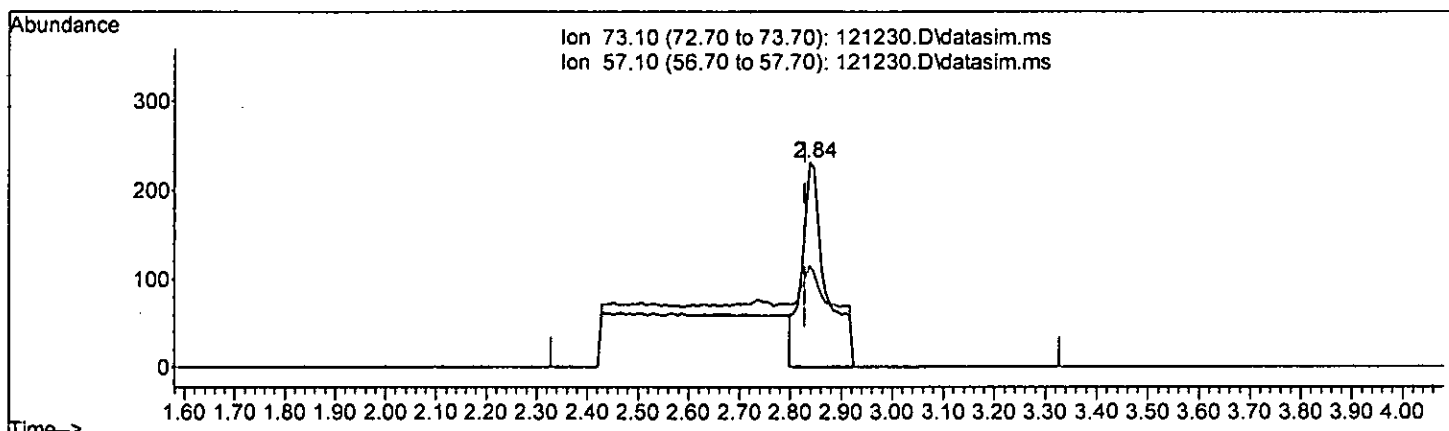
response	108		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	160.00	130.51	
63.00	53.70	83.05	
0.00	0.00	0.00	

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (+ 0.008) 0.207 ppb

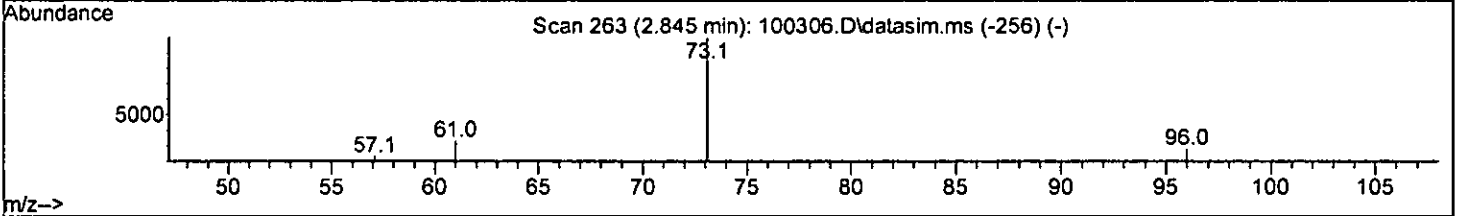
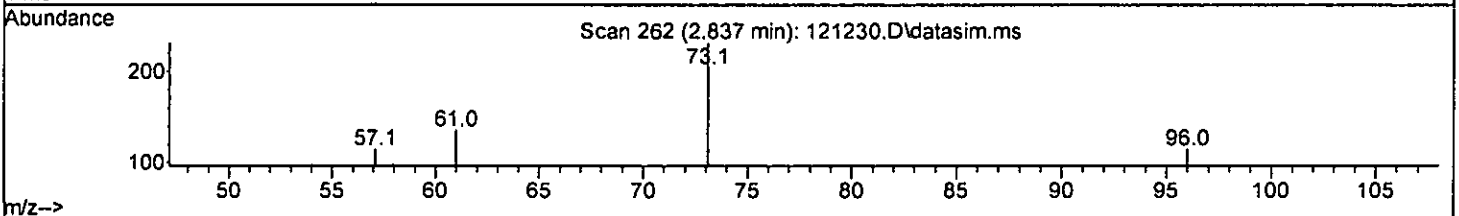
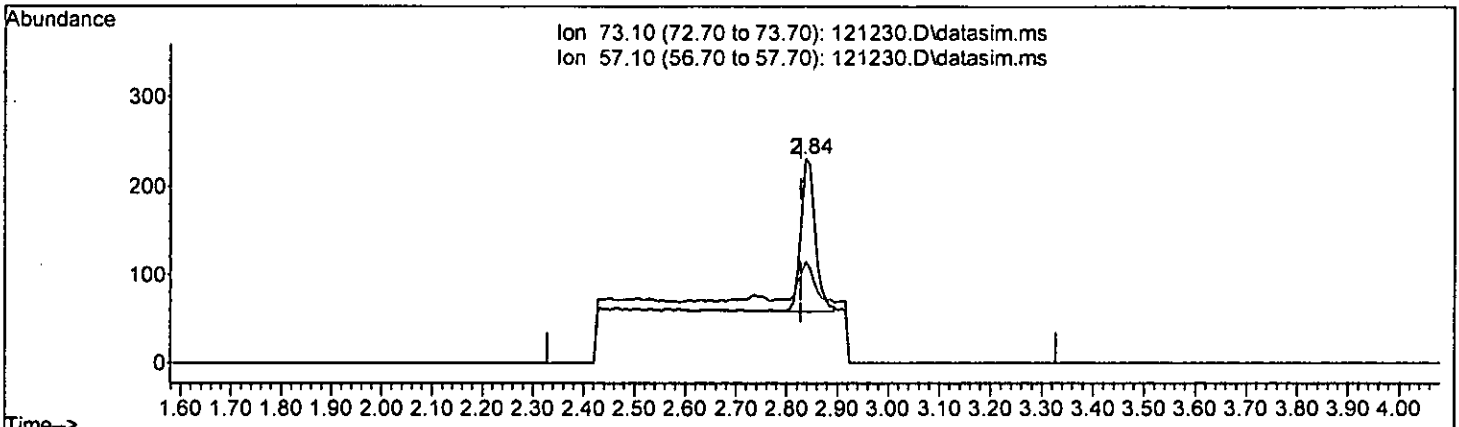
response	756	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	24.80	49.35
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)  
 2.837min (+ 0.008) 0.094 ppb m

response	342		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	24.80	49.35	
0.00	0.00	0.00	
0.00	0.00	0.00	

12/15 LM

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.653	3.5	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.102	0.0	0	0.02
5 TMP Chloromethane	-1.000	0.209	0.0	0	0.00
6 TMP Vinyl chloride	0.100	0.081	19.0	94	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP Trichlorofluoromethane	-1.000	0.057	0.0	0	-0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	-1.000	0.394	0.0	0	0.00
12 TMP 1,1-Dichloroethene	0.100	0.090	10.0	93	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.05#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.100	0.094	6.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.100	0.094	6.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.087	0.0	0	0.02
19 TMP 1,1-Dichloroethane	0.100	0.096	4.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP 2,2-Dichloropropane	-1.000	0.077	0.0	0	-0.02
22 TMP cis-1,2-Dichloroethene	0.100	0.102	-2.0	100	0.00
23 TMP Chloroform	-1.000	0.097	0.0	0	0.00
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.70#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.49#
26 TMP 1,2-Dichloroethane (EDC)	0.100	0.110	-10.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.100	0.093	7.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.095	0.0	0	0.00
29 TMP Carbon tetrachloride	-1.000	0.065	0.0	0	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.186	-1.9	100	0.00
31 TMP Benzene	0.100	0.099	1.0	100	0.00
32 TMP Trichloroethene	0.100	0.099	1.0	100	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.096	0.0	0	0.00
34 TMP Bromodichloromethane	-1.000	0.086	0.0	0	0.00
35 S Toluene-d8	10.000	10.256	-2.6	100	0.00
36 TMP Dibromomethane	-1.000	0.085	0.0	0	0.00
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.100	0.114	-14.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	-1.000	0.058	0.0	0	0.01
42 TMP	1,1,2-Trichloroethane	0.100	0.102	-2.0	100	0.00
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.64#
44 TMP	1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP	Tetrachloroethene	0.100	0.117	-17.0	100	0.00
46 TMP	Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP	1,2-Dibromoethane (EDB)	0.100	0.104	-4.0	100	0.00
48 TMP	Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP	Ethylbenzene	0.100	0.104	-4.0	100	0.00
50 TMP	1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP	m,p-Xylene	0.200	0.212	-6.0	100	0.00
52 TMP	o-Xylene	0.100	0.100	0.0	100	0.00
53 TMP	Styrene	-1.000	0.000	0.0	0	-7.90#
54 TMP	Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP	Bromoform	-1.000	0.000	0.0	0	-8.07#
56 I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S	4-Bromofluorobenzene	10.000	9.732	2.7	100	0.00
58 TMP	n-Propylbenzene	-1.000	0.000	0.0	0	-8.63#
59 TMP	Bromobenzene	-1.000	0.000	0.0	0	-8.51#
60 TMP	1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP	1,1,2,2-Tetrachloroethane	-1.000	0.066	0.0	0	0.00
62 TMP	1,2,3-Trichloropropane	-1.000	0.095	0.0	0	0.00
63 TMP	2-Chlorotoluene	-1.000	0.000	0.0	0	-8.70#
64 TMP	4-Chlorotoluene	-1.000	0.000	0.0	0	-8.81#
65 TMP	tert-Butylbenzene	-1.000	0.000	0.0	0	-9.10#
66 TMP	1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP	sec-Butylbenzene	-1.000	0.095	0.0	0	0.00
68 TMP	p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP	1,3-Dichlorobenzene	-1.000	0.093	0.0	0	0.00
70 TMP	1,4-Dichlorobenzene	-1.000	0.099	0.0	0	0.00
71 TMP	1,2-Dichlorobenzene	-1.000	0.094	0.0	0	0.00
72 TMP	1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP	1,2,4-Trichlorobenzene	-1.000	0.093	0.0	0	0.00
74 TMP	Hexachlorobutadiene	-1.000	0.082	0.0	0	0.00
75 TMP	Naphthalene	0.100	0.000	100.0#	0	-11.68#
76 TMP	1,2,3-Trichlorobenzene	-1.000	0.124	0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Oibromofluoromethane	0.264	0.255	3.4	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.000#	100.0#	0#	0.02
5 TMP	Chloromethane	0.883	0.000#	100.0#	0#	0.00
6 TMP	Vinyl chloride	0.732	0.591	19.3	94	0.00
7 TMP	Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP	Chloroethane	0.336	0.000#	100.0#	0#	-1.59#
9 TMP	Trichlorofluoromethane	0.870	0.000#	100.0#	0#	-0.02
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.000#	100.0#	0#	0.00
12 TMP	1,1-Dichloroethene	0.240	0.217	9.6	93	0.00
13 TMP	Hexane	0.434	0.000#	100.0#	0#	-3.05#
14 TMP	Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP	t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.73#
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.688	6.1	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.255	6.3	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.000#	100.0#	0#	0.02
19 TMP	1,1-Dichloroethane	0.504	0.487	3.4	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.000#	100.0#	0#	-3.55#
21 TMP	2,2-Dichloropropane	0.316	0.000#	100.0#	0#	-0.02
22 TMP	cis-1,2-Dichloroethene	0.286	0.292	-2.1	100	0.00
23 TMP	Chloroform	0.477	0.000#	100.0#	0#	0.00
24 TMP	2-Butanone (MEK)	0.183	0.000#	100.0#	0#	-3.70#
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.000#	100.0#	0#	-4.49#
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.454	-9.9	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.410	6.8	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.000#	100.0#	0#	0.00
29 TMP	Carbon tetrachloride	0.367	0.000#	100.0#	0#	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	0.999	0.991	0.8	100	0.00
32 TMP	Trichloroethene	0.316	0.312	1.3	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.000#	100.0#	0#	0.00
34 TMP	Bromodichloromethane	0.357	0.000#	100.0#	0#	0.00
35 S	Toluene-d8	0.960	0.985	-2.6	100	0.00
36 TMP	Dibromomethane	0.169	0.000#	100.0#	0#	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.000#	100.0#	0#	-5.91#
38 TMP	cis-1,3-Dichloropropene	0.429	0.000#	100.0#	0#	-5.75#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.975	-13.6	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.000#	100.0#	0#	0.01
42 TMP 1,1,2-Trichloroethane	0.264	0.269	-1.9	100	0.00
43 TMP 2-Hexanone	0.335	0.000#	100.0#	0#	-6.64#
44 TMP 1,3-Dichloropropane	0.470	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.342	0.399	-16.7	100	0.00
46 TMP Dibromochloromethane	0.354	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.340	-4.0	100	0.00
48 TMP Chlorobenzene	0.925	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.611	1.669	-3.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.607	0.642	-5.8	100	0.00
52 TMP o-Xylene	0.595	0.596	-0.2	100	0.00
53 TMP Styrene	0.973	0.000#	100.0#	0#	-7.90#
54 TMP Isopropylbenzene	1.564	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.252	0.000#	100.0#	0#	-8.07#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.822	2.6	100	0.00
58 TMP n-Propylbenzene	3.281	0.000#	100.0#	0#	-8.63#
59 TMP Bromobenzene	0.770	0.000#	100.0#	0#	-8.51#
60 TMP 1,3,5-Trimethylbenzene	2.443	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.000#	100.0#	0#	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.000#	100.0#	0#	0.00
63 TMP 2-Chlorotoluene	1.941	0.000#	100.0#	0#	-8.70#
64 TMP 4-Chlorotoluene	2.281	0.000#	100.0#	0#	-8.81#
65 TMP tert-Butylbenzene	2.141	0.000#	100.0#	0#	-9.10#
66 TMP 1,2,4-Trimethylbenzene	2.476	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	3.103	0.000#	100.0#	0#	0.00
68 TMP p-Isopropyltoluene	2.672	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.434	0.000#	100.0#	0#	0.00
70 TMP 1,4-Dichlorobenzene	1.461	0.000#	100.0#	0#	0.00
71 TMP 1,2-Dichlorobenzene	1.380	0.000#	100.0#	0#	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.000#	100.0#	0#	0.00
74 TMP Hexachlorobutadiene	0.542	0.000#	100.0#	0#	0.00
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.000#	100.0#	0#	0.00



Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	49730	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	39074	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21750	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12666	9.653	ppb	0.00	
Spiked Amount	10.000		Range	50 - 150		Recovery = 96.50%	
30) 1,2-Dichloroethane-d4	4.36	102	3056	10.186	ppb	0.00	
Spiked Amount	10.000		Range	79 - 128		Recovery = 101.90%	
35) Toluene-d8	5.98	98	48969	10.256	ppb	0.00	
Spiked Amount	10.000		Range	84 - 121		Recovery = 102.60%	
57) 4-Bromofluorobenzene	8.38	95	17871	9.732	ppb	0.00	
Spiked Amount	10.000		Range	84 - 116		Recovery = 97.30%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0		N.D.		
4) Dichlorodifluoromethane	1.10	85	349		N.D.		
5) Chloromethane	1.22	50	919		N.D.		
6] Vinyl chloride	1.30	62	294m	0.081	ppb		
7) Bromomethane	0.00		0		N.D. d		
8) Chloroethane	0.00		0		N.D. d		
9) Trichlorofluoromethane	1.77	101	246		N.D.		
10) 2-Propanol	2.40	45	376		No Calib		
11) Acetone	2.27	58	73		N.D.		
12] 1,1-Dichloroethene	2.19	96	108m	0.090	ppb		
13) Hexane	0.00		0		N.D. d		
14) Methylene chloride	0.00		0		N.D. d		
15) t-Butyl alcohol (TBA)	0.00		0		N.D. d		
16] Methyl t-butyl ether (...)	2.84	73	342m	0.094	ppb		
17] trans-1,2-Dichloroethene	2.83	96	127	0.094	ppb		87
18) Diisopropyl ether (DIPE)	3.26	45	401		N.D.		
19] 1,1-Dichloroethane	3.18	63	242	0.096	ppb		97
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.		
21) 2,2-Dichloropropane	3.64	77	121		N.D.		
22] cis-1,2-Dichloroethene	3.67	96	145	0.102	ppb		91
23) Chloroform	3.95	83	229		N.D.		
24) 2-Butanone (MEK)	0.00		0		N.D. d		
25) t-Amyl methyl ether (T...)	0.00		0		N.D. d		
26] 1,2-Dichloroethane (EDC)	4.41	62	226	0.110	ppb		95
27] 1,1,1-Trichloroethane	4.08	97	204	0.093	ppb		94
28) 1,1-Dichloropropene	4.22	75	172		N.D.		
29) Carbon tetrachloride	4.21	117	119		N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-2SH  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31] Benzene	4.39	78	493	0.099	ppb	91
32] Trichloroethene	4.93	95	155	0.099	ppb	96
33] 1,2-Dichloropropane	5.13	63	142	N.D.		
34] Bromodichloromethane	5.37	83	153	N.D.		
36] Dibromomethane	5.23	93	71	N.D.		
37] 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38] cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.03	92	381	0.114	ppb	93
41] trans-1,3-Dichloropropene	6.26	75	110	N.D.		
42] 1,1,2-Trichloroethane	6.40	83	105	0.102	ppb	95
43] 2-Hexanone	0.00		0	N.D.	d	
44] 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.51	164	156	0.117	ppb	92
46] Dibromochloromethane	0.00		0	N.D.		
47] 1,2-Dibromoethane (EDB)	6.85	107	133	0.104	ppb	100
48] Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.40	91	652	0.104	ppb	99
50] 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.52	106	502	0.212	ppb	99
52] o-Xylene	7.88	106	233	0.100	ppb	96
53] Styrene	0.00		0	N.D.	d	
54] Isopropylbenzene	0.00		0	N.D.	d	
55] Bromoform	0.00		0	N.D.		
58] n-Propylbenzene	0.00		0	N.D.	d	
59] Bromobenzene	0.00		0	N.D.	d	
60] 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61] 1,1,2,2-Tetrachloroethane	8.54	83	100	N.D.		
62] 1,2,3-Trichloropropane	8.57	75	121	N.D.		
63] 2-Chlorotoluene	0.00		0	N.D.	d	
64] 4-Chlorotoluene	0.00		0	N.D.	d	
65] tert-Butylbenzene	0.00		0	N.D.	d	
66] 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67] sec-Butylbenzene	9.31	105	644	N.D.		
68] p-Isopropyltoluene	0.00		0	N.D.	d	
69] 1,3-Dichlorobenzene	9.41	146	290	N.D.		
70] 1,4-Dichlorobenzene	9.50	146	313	N.D.		
71] 1,2-Dichlorobenzene	9.86	146	281	N.D.		
72] 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73] 1,2,4-Trichlorobenzene	11.44	180	199	N.D.		
74] Hexachlorobutadiene	11.61	225	97	N.D.		
75] Naphthalene	0.00		0	N.D.	d	
76] 1,2,3-Trichlorobenzene	11.93	180	243	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121230.D  
Acq On : 12 Dec 2022 11:21 pm  
Operator : LM  
Sample : 0.1 ppb 8260 ICAL 68-25H  
Misc : soil/water  
ALS Vial : 8 Sample Multiplier: 1  
InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
Quant Method : D:\Methods\Inst11\VB121222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Tue Dec 13 13:28:26 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M'

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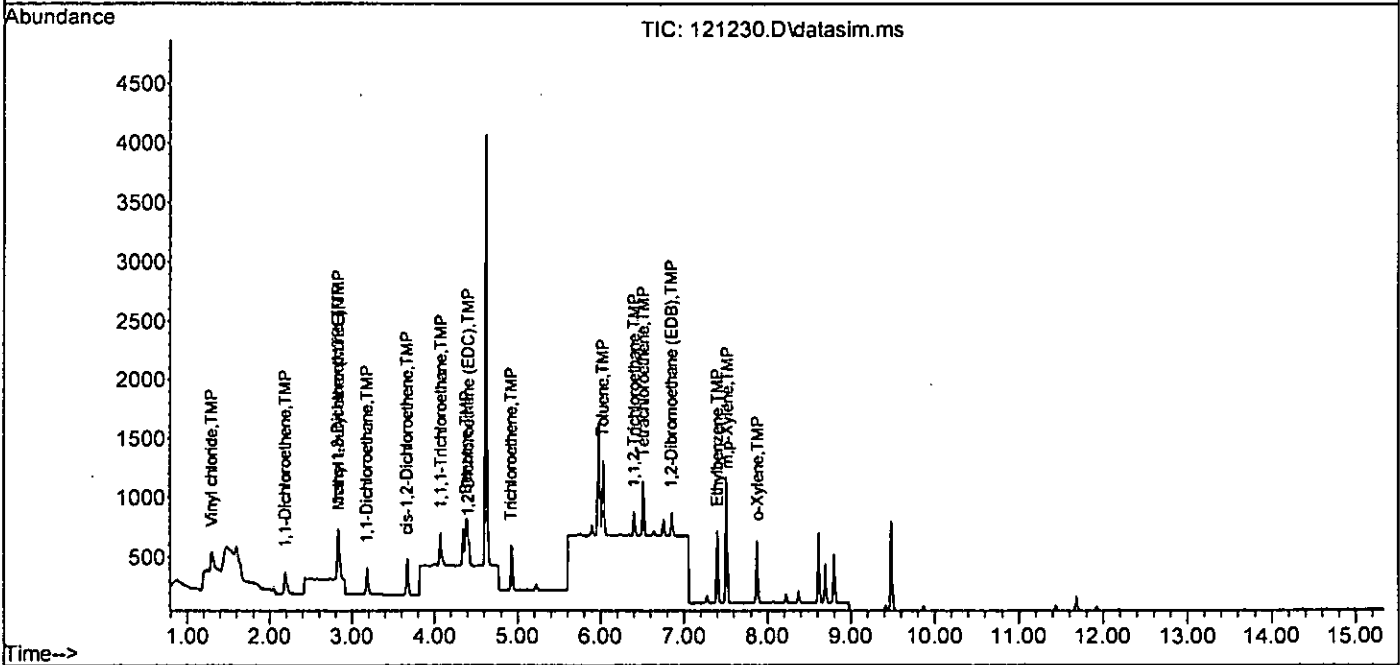
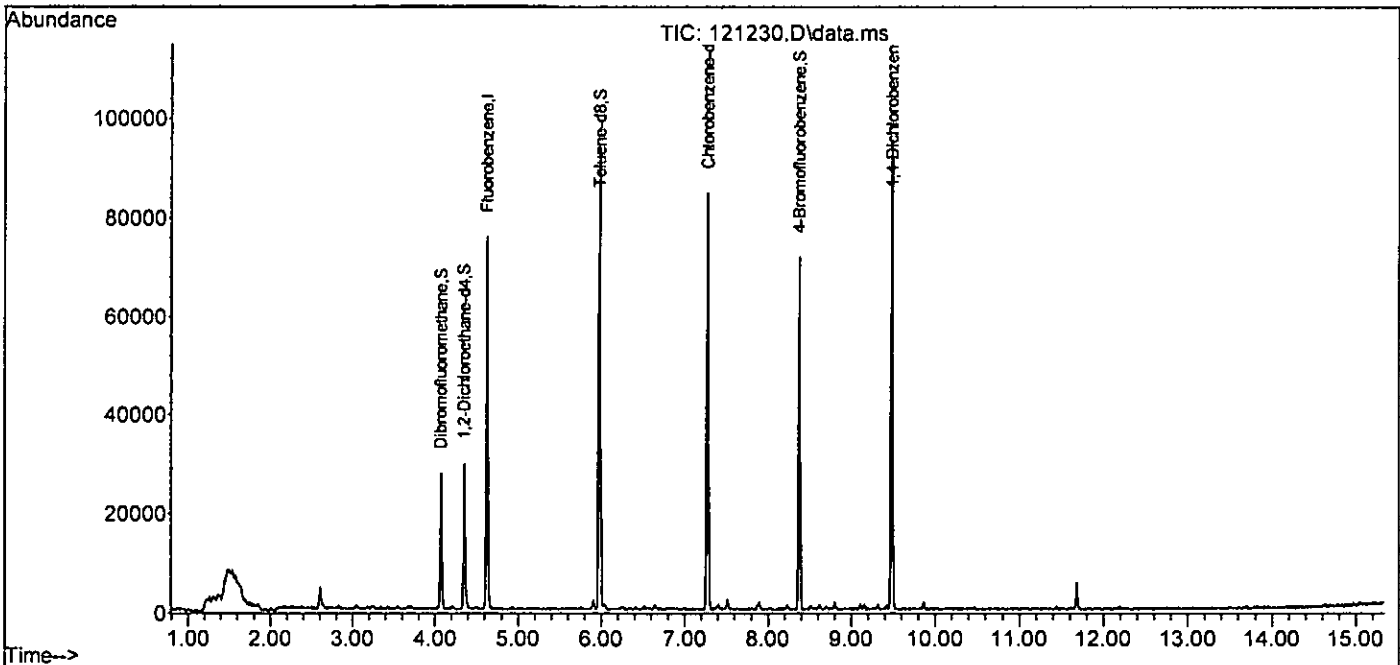
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

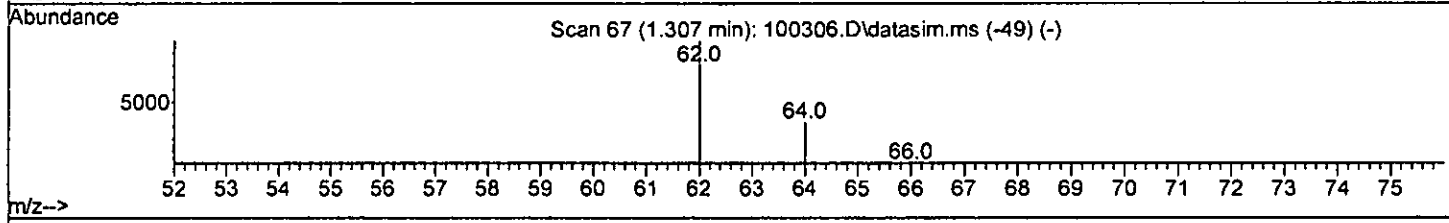
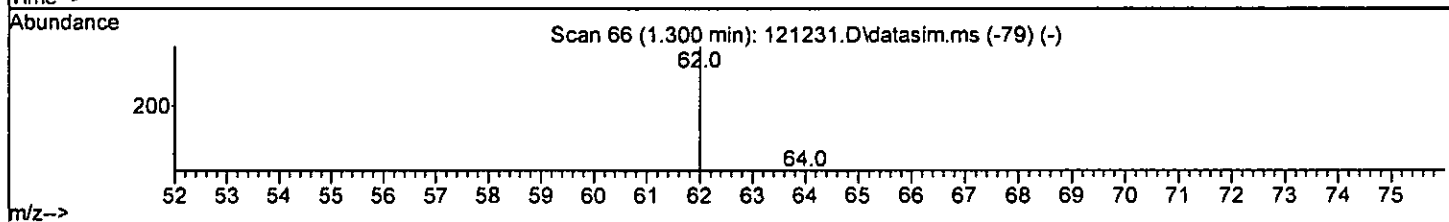
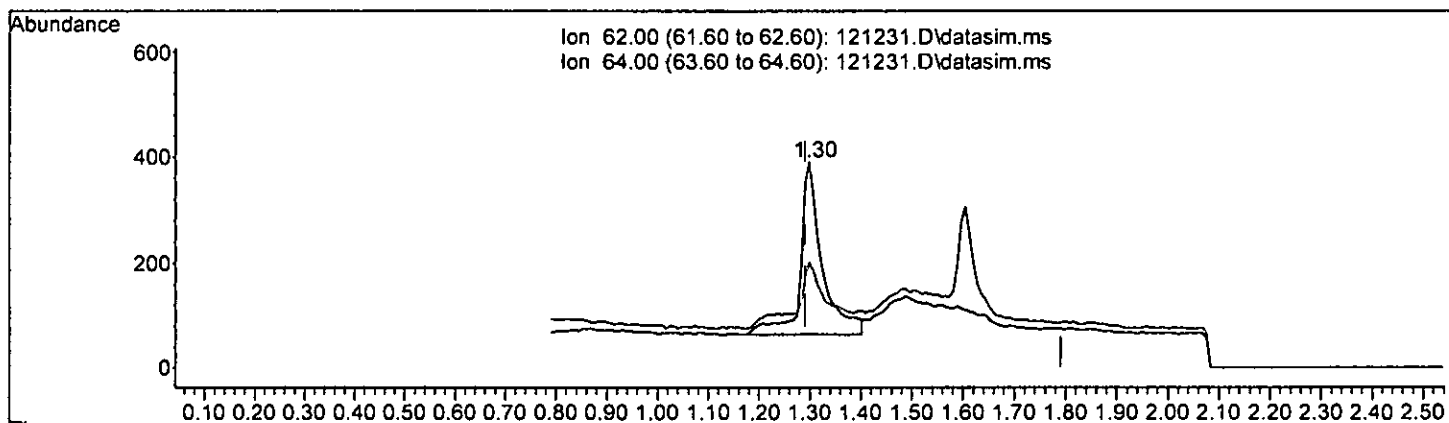
Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121231.D\data.ms

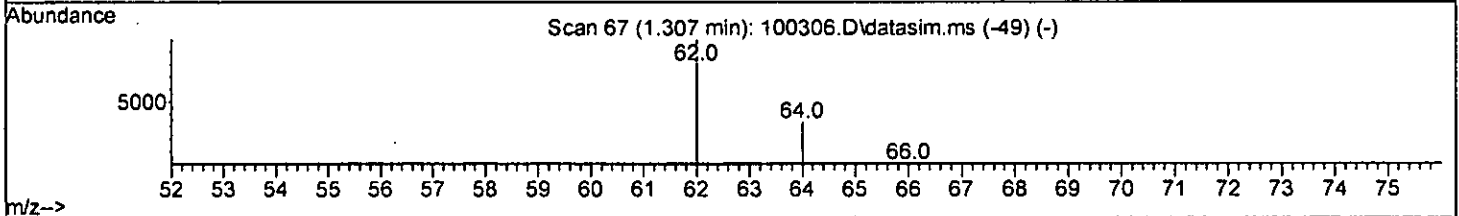
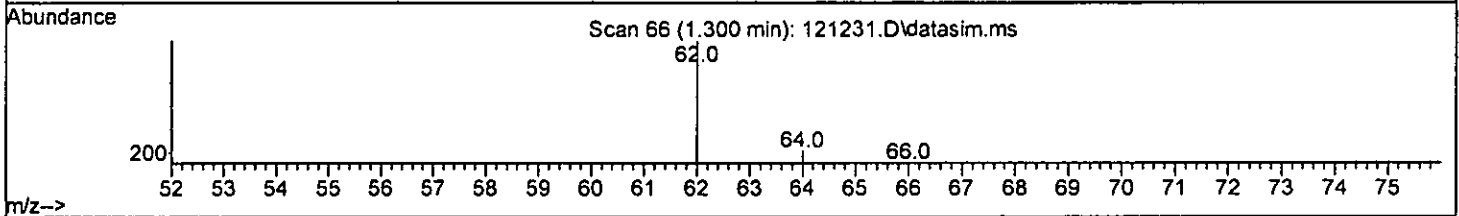
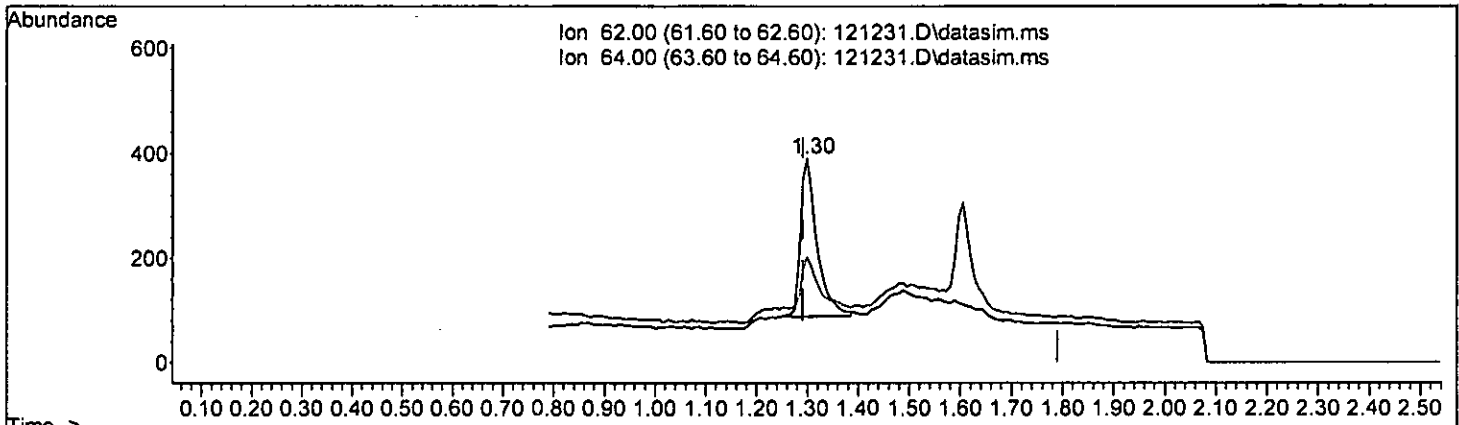
<del>(6) Vinyl chloride (TMP)</del>			
1.300min (+ 0.008) 0.273 ppb			
response	974		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	29.80	38.23	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



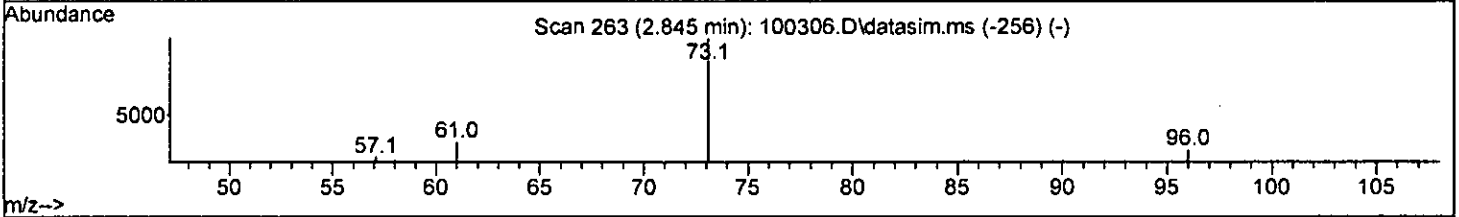
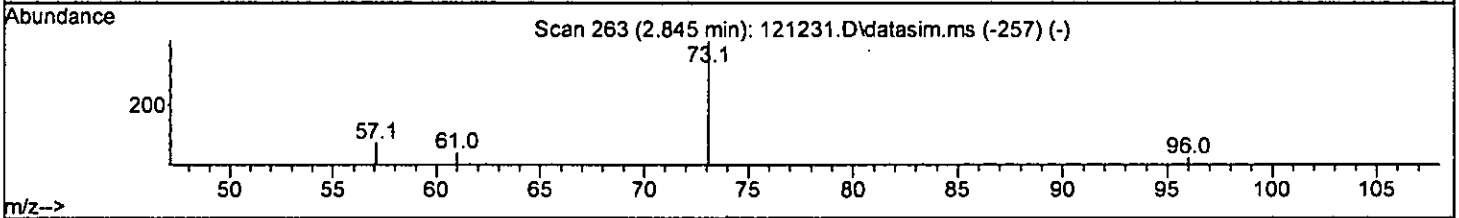
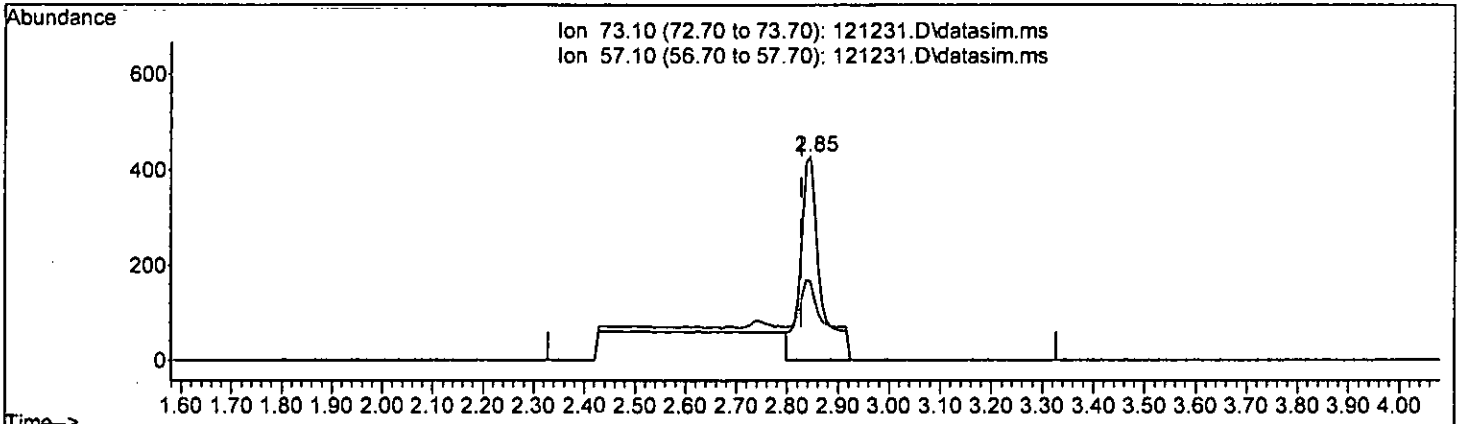
TIC: 121231.D\data.ms

(6) Vinyl chloride (TMP)			
1.300min (+ 0.008) 0.188 ppb m			
response	670		
Ion	Exp%	Act%	
62.00	100.00	100.00	<i>12/15 DM</i>
64.00	28.80	51.41	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121231.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.016) 0.319 ppb

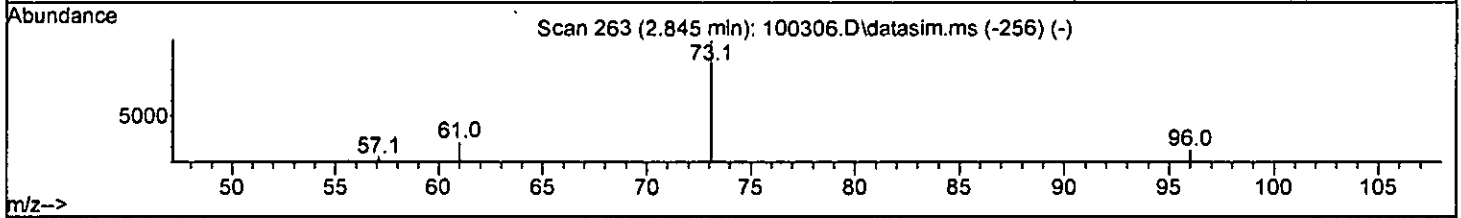
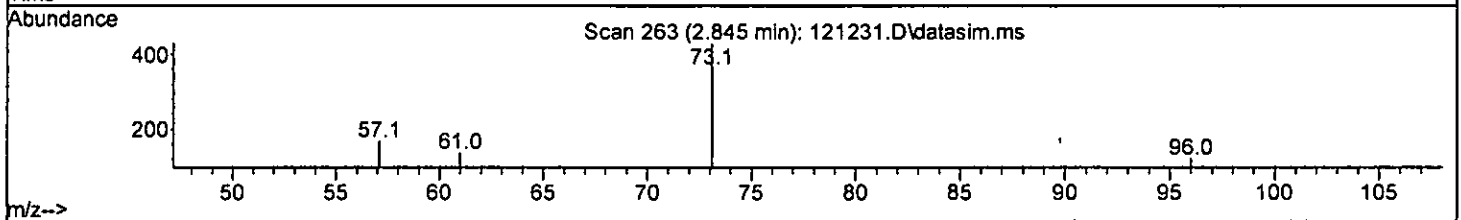
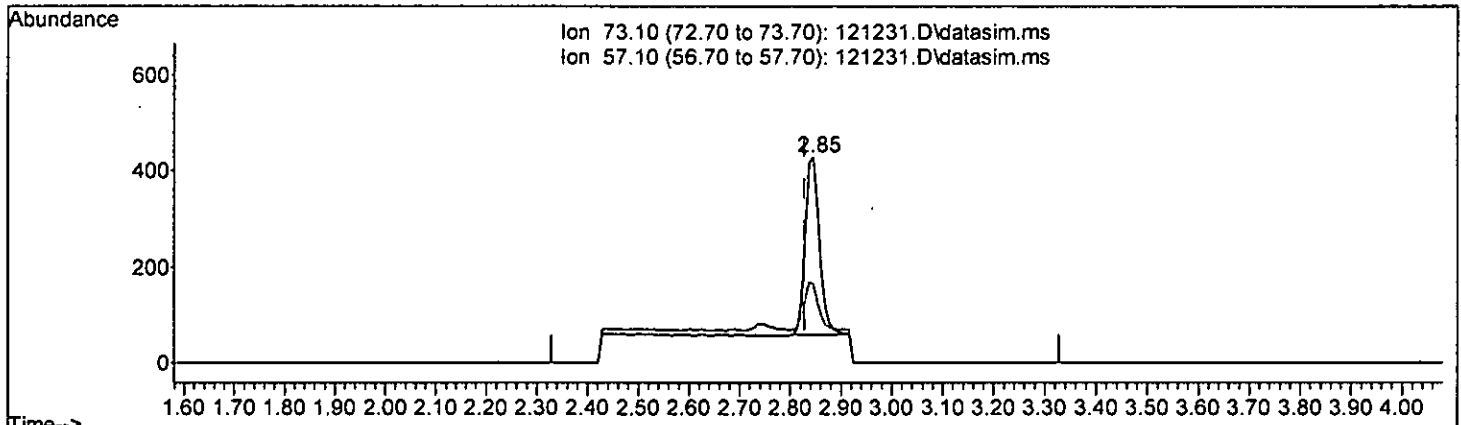
response	1142	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	24.80	38.69
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
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 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121231.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.016) 0.200 ppb m

response	716		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	24.80	38.69	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15/2022*



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	9.925	0.7	100	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.08#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.22#
6 TMP	Vinyl chloride	0.200	0.188	6.0	103	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP	Trichlorofluoromethane	0.200	0.215	-7.5	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.26#
12 TMP	1,1-Dichloroethene	0.200	0.208	-4.0	100	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.05#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.73#
16 TMP	Methyl t-butyl ether (MTBE)	0.200	0.200	0.0	98	0.02
17 TMP	trans-1,2-Dichloroethene	0.200	0.206	-3.0	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.200	0.232	-16.0	100	0.00
19 TMP	1,1-Dichloroethane	0.200	0.210	-5.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.200	0.218	-9.0	100	0.00
21 TMP	2,2-Dichloropropane	0.200	0.239	-19.5	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.200	0.212	-6.0	100	0.00
23 TMP	Chloroform	0.200	0.213	-6.5	100	0.00
24 TMP	2-Butanone (MEK)	1.000	0.000	100.0#	0	-3.70#
25 TMP	t-Amyl methyl ether (TAME)	0.200	0.189	5.5	100	0.02
26 TMP	1,2-Dichloroethane (EDC)	0.200	0.227	-13.5	100	0.00
27 TMP	1,1,1-Trichloroethane	0.200	0.202	-1.0	100	0.00
28 TMP	1,1-Dichloropropene	0.200	0.208	-4.0	100	0.00
29 TMP	Carbon tetrachloride	0.200	0.163	18.5	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.295	-2.9	100	0.00
31 TMP	Benzene	0.200	0.215	-7.5	100	0.00
32 TMP	Trichloroethene	0.200	0.209	-4.5	100	0.00
33 TMP	1,2-Dichloropropane	0.200	0.220	-10.0	100	0.00
34 TMP	Bromodichloromethane	0.200	0.209	-4.5	100	0.00
35 S	Toluene-d8	10.000	9.849	1.5	100	0.00
36 TMP	Dibromomethane	0.200	0.144	28.0#	100	0.00
37 TMP	4-Methyl-2-pentanone	1.000	0.000	100.0#	0	-5.91#
38 TMP	cis-1,3-Dichloropropene	0.200	0.278	-39.0#	100	0.00

OK 12/15  
 JLM

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.200	0.214	-7.0	100	0.00
41 TMP trans-1,3-Dichloropropene	0.200	0.185	7.5	100	0.00
42 TMP 1,1,2-Trichloroethane	0.200	0.205	-2.5	100	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#
44 TMP 1,3-Dichloropropane	0.200	0.167	16.5	100	0.00
45 TMP Tetrachloroethene	0.200	0.219	-9.5	100	0.00
46 TMP Dibromochloromethane	0.200	0.183	8.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.200	0.209	-4.5	100	0.00
48 TMP Chlorobenzene	0.200	0.209	-4.5	100	0.00
49 TMP Ethylbenzene	0.200	0.213	-6.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.200	0.149	25.5#	100	0.00
51 TMP m,p-Xylene	0.400	0.428	-7.0	100	0.00
52 TMP o-Xylene	0.200	0.210	-5.0	100	0.00
53 TMP Styrene	0.200	0.206	-3.0	100	0.00
54 TMP Isopropylbenzene	0.200	0.218	-9.0	100	0.00
55 TMP Bromoform	0.200	0.180	10.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.912	0.9	100	0.00
58 TMP n-Propylbenzene	0.200	0.212	-6.0	100	0.00
59 TMP Bromobenzene	0.200	0.205	-2.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.200	0.247	-23.5#	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.200	0.203	-1.5	100	0.00
62 TMP 1,2,3-Trichloropropane	0.200	0.269	-34.5#	100	0.00 OK 14.5 JLM
63 TMP 2-Chlorotoluene	0.200	0.241	-20.5#	100	0.00
64 TMP 4-Chlorotoluene	0.200	0.259	-29.5#	100	0.00
65 TMP tert-Butylbenzene	0.200	0.214	-7.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.200	0.229	-14.5	100	0.00
67 TMP sec-Butylbenzene	0.200	0.216	-8.0	100	0.00
68 TMP p-Isopropyltoluene	0.200	0.201	-0.5	100	0.00
69 TMP 1,3-Dichlorobenzene	0.200	0.220	-10.0	100	0.00
70 TMP 1,4-Dichlorobenzene	0.200	0.225	-12.5	100	0.00
71 TMP 1,2-Dichlorobenzene	0.200	0.196	2.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.200	0.182	9.0	100	0.00
74 TMP Hexachlorobutadiene	0.200	0.223	-11.5	100	0.00
75 TMP Naphthalene	0.200	0.000	100.0#	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.200	0.200	0.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.262	0.8	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.000#	100.0#	0#	-1.08#
5 TMP Chloromethane	0.883	0.000#	100.0#	0#	-1.22#
6 TMP Vinyl chloride	0.732	0.687	6.1	103	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP Chloroethane	0.336	0.000#	100.0#	0#	-1.59#
9 TMP Trichlorofluoromethane	0.870	0.934	-7.4	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.000#	100.0#	0#	-2.26#
12 TMP 1,1-Dichloroethene	0.240	0.250	-4.2	100	0.00
13 TMP Hexane	0.434	0.000#	100.0#	0#	-3.05#
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.734	-0.1	98	0.02
17 TMP trans-1,2-Dichloroethene	0.272	0.280	-2.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	1.080	-15.9	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.529	-5.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.323	-9.1	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.378	-19.6	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.303	-5.9	100	0.00
23 TMP Chloroform	0.477	0.509	-6.7	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.000#	100.0#	0#	-3.70#
25 TMP t-Amyl methyl ether (TAME)	0.694	0.656	5.5	100	0.02
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.469	-13.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.444	-0.9	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.376	-3.9	100	0.00
29 TMP Carbon tetrachloride	0.367	0.298	18.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.999	1.074	-7.5	100	0.00
32 TMP Trichloroethene	0.316	0.330	-4.4	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.326	-10.1	100	0.00
34 TMP Bromodichloromethane	0.357	0.373	-4.5	100	0.00
35 S Toluene-d8	0.960	0.946	1.5	100	0.00
36 TMP Dibromomethane	0.169	0.122	27.8#	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.000#	100.0#	0#	-5.91#
38 TMP cis-1,3-Dichloropropene	0.429	0.595	-38.7#	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
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 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.916	-6.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.448	7.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.270	-2.3	100	0.00
43 TMP 2-Hexanone	0.335	0.000#	100.0#	0#	-6.64#
44 TMP 1,3-Dichloropropane	0.470	0.392	16.6	100	0.00
45 TMP Tetrachloroethene	0.342	0.375	-9.6	100	0.00
46 TMP Dibromochloromethane	0.354	0.323	8.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.343	-4.9	100	0.00
48 TMP Chlorobenzene	0.925	0.967	-4.5	100	0.00
49 TMP Ethylbenzene	1.611	1.713	-6.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.249	25.2#	100	0.00
51 TMP m,p-Xylene	0.607	0.649	-6.9	100	0.00
52 TMP o-Xylene	0.595	0.623	-4.7	100	0.00
53 TMP Styrene	0.973	1.002	-3.0	100	0.00
54 TMP Isopropylbenzene	1.564	1.708	-9.2	100	0.00
55 TMP Bromoform	0.252	0.227	9.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.837	0.8	100	0.00
58 TMP n-Propylbenzene	3.281	3.483	-6.2	100	0.00
59 TMP Bromobenzene	0.770	0.791	-2.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	3.022	-23.7#	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.708	-1.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.788	-34.5#	100	0.00
63 TMP 2-Chlorotoluene	1.941	2.337	-20.4#	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.951	-29.4#	100	0.00
65 TMP tert-Butylbenzene	2.141	2.292	-7.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.838	-14.6	100	0.00
67 TMP sec-Butylbenzene	3.103	3.358	-8.2	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.690	-0.7	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.574	-9.8	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.640	-12.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.351	2.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.890	9.2	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.605	-11.6	100	0.00
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.906	-0.2	100	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
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 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	4.63	96	48767	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38819	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21245	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12771	9.925	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.30%		
30) 1,2-Dichloroethane-d4	4.36	102	3029	10.295	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	103.00%		
35) Toluene-d8	5.98	98	46117	9.849	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	98.50%		
57) 4-Bromofluorobenzene	8.38	95	17778	9.912	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	99.10%		
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.30	62	670m	0.188	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	1.79	101	911	0.215	ppb		75
10) 2-Propanol	2.41	45	207	No Calib			
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.19	96	244	0.208	ppb		89
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.85	73	716m	0.200	ppb		
17] trans-1,2-Dichloroethene	2.83	96	273	0.206	ppb		95
18) Diisopropyl ether (DIPE)	3.24	45	1053m	0.232	ppb		
19] 1,1-Dichloroethane	3.18	63	516	0.210	ppb		94
20) Ethyl t-butyl ether (E...)	3.56	87	315m	0.218	ppb		
21) 2,2-Dichloropropane	3.66	77	369	0.239	ppb		47
22] cis-1,2-Dichloroethene	3.67	96	296	0.212	ppb		98
23) Chloroform	3.94	83	496	0.213	ppb		97
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.51	73	640	0.189	ppb		57
26] 1,2-Dichloroethane (EDC)	4.42	62	457	0.227	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	433	0.202	ppb		96
28) 1,1-Dichloropropene	4.22	75	367	0.208	ppb	#	60
29) Carbon tetrachloride	4.22	117	291	0.163	ppb		80

Quantitation Report (QT Reviewed)

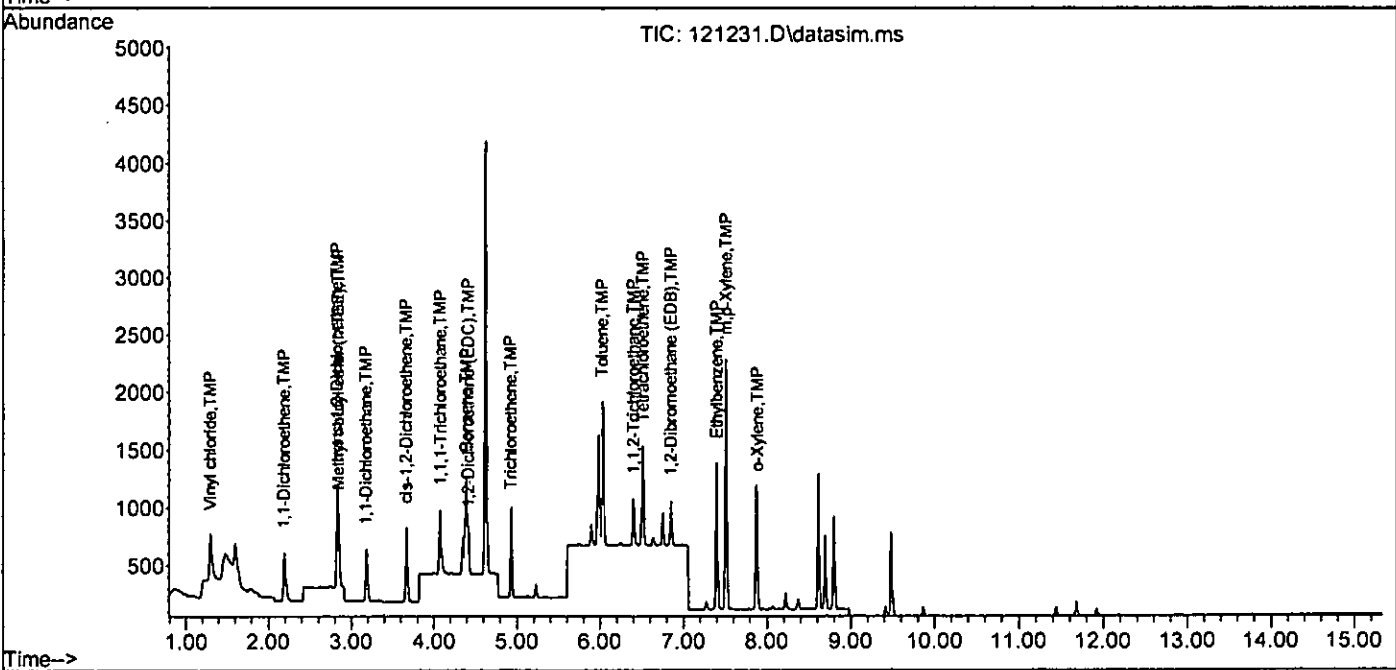
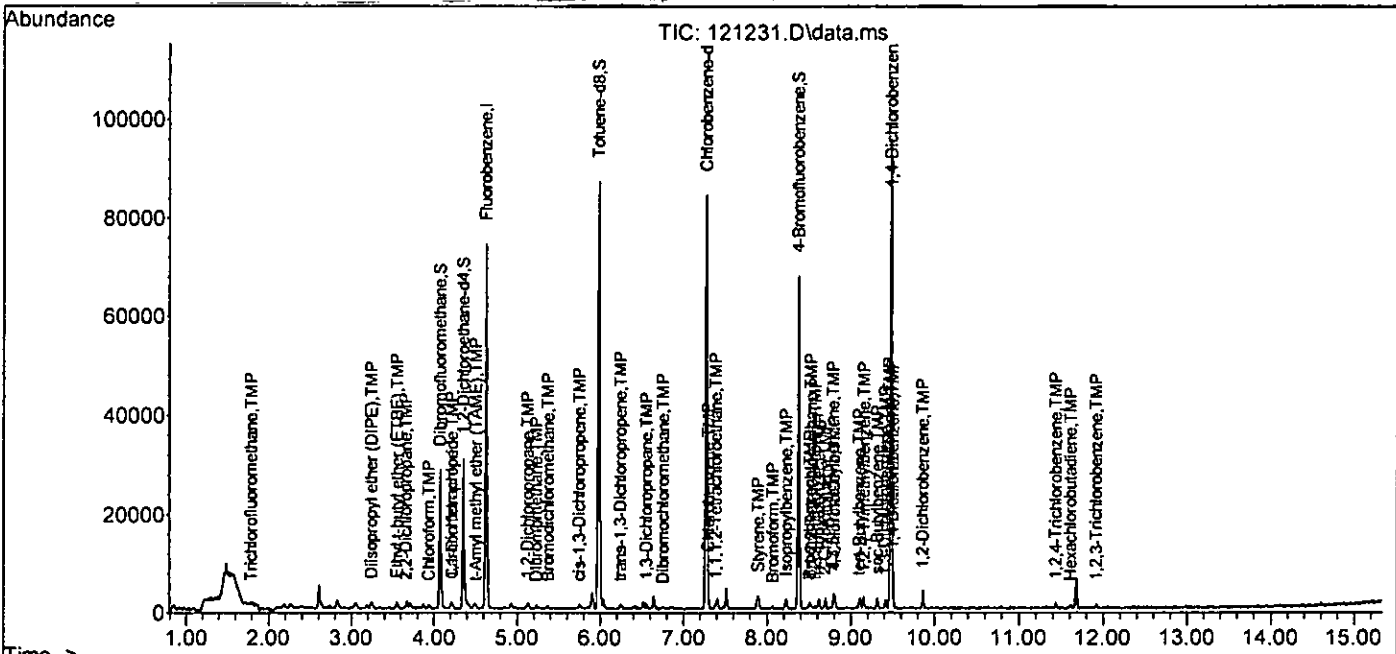
Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Oev(Min)
31] Benzene	4.39	78	1048	0.215	ppb	99
32] Trichloroethene	4.93	95	322	0.209	ppb	99
33] 1,2-Dichloropropane	5.13	63	318	0.220	ppb #	91
34] Bromodichloromethane	5.37	83	364	0.209	ppb	67
36] Dibromomethane	5.23	93	119	0.144	ppb #	45
37] 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38] cis-1,3-Dichloropropene	5.75	75	580	0.278	ppb	83
40] Toluene	6.03	92	711	0.214	ppb	91
41] trans-1,3-Dichloropropene	6.25	75	348	0.185	ppb	74
42] 1,1,2-Trichloroethane	6.40	83	210	0.205	ppb	97
43] 2-Hexanone	0.00		0	N.D.	d	
44] 1,3-Dichloropropane	6.55	76	304	0.167	ppb	84
45] Tetrachloroethene	6.51	164	291	0.219	ppb	99
46] Dibromochloromethane	6.75	129	251	0.183	ppb	80
47] 1,2-Dibromoethane (EDB)	6.85	107	266	0.209	ppb	97
48] Chlorobenzene	7.30	112	751	0.209	ppb	93
49] Ethylbenzene	7.40	91	1330	0.213	ppb	99
50] 1,1,1,2-Tetrachloroethane	7.39	131	193	0.149	ppb #	66
51] m,p-Xylene	7.51	106	1008	0.428	ppb #	69
52] o-Xylene	7.88	106	484	0.210	ppb	100
53] Styrene	7.90	104	778	0.206	ppb	68
54] Isopropylbenzene	8.23	105	1326	0.218	ppb	91
55] Bromoform	8.07	173	176	0.180	ppb #	32
58] n-Propylbenzene	8.62	91	1480	0.212	ppb	63
59] Bromobenzene	8.51	156	336	0.205	ppb	89
60] 1,3,5-Trimethylbenzene	8.79	105	1284	0.247	ppb	76
61] 1,1,2,2-Tetrachloroethane	8.52	83	301	0.203	ppb #	59
62] 1,2,3-Trichloropropane	8.57	75	335	0.269	ppb	82
63] 2-Chlorotoluene	8.70	91	993	0.241	ppb	84
64] 4-Chlorotoluene	8.81	91	1254	0.259	ppb	95
65] tert-Butylbenzene	9.10	119	974	0.214	ppb	89
66] 1,2,4-Trimethylbenzene	9.15	105	1206	0.229	ppb	86
67] sec-Butylbenzene	9.31	105	1427	0.216	ppb	90
68] p-Isopropyltoluene	9.46	119	1143	0.201	ppb	97
69] 1,3-Dichlorobenzene	9.41	146	669	0.220	ppb	95
70] 1,4-Dichlorobenzene	9.50	146	697	0.225	ppb	95
71] 1,2-Dichlorobenzene	9.86	146	574	0.196	ppb	96
72] 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73] 1,2,4-Trichlorobenzene	11.44	180	378	0.182	ppb	84
74] Hexachlorobutadiene	11.61	225	257	0.223	ppb #	68
75] Naphthalene	0.00		0	N.D.	d	
76] 1,2,3-Trichlorobenzene	11.91	180	385	0.200	ppb #	65

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

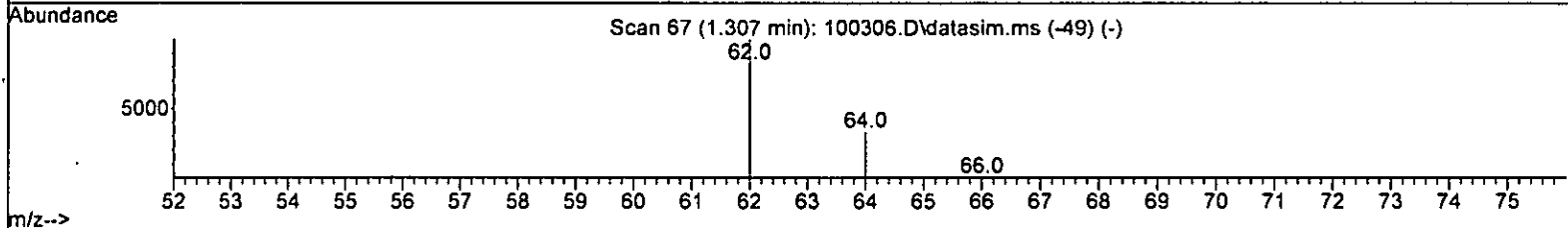
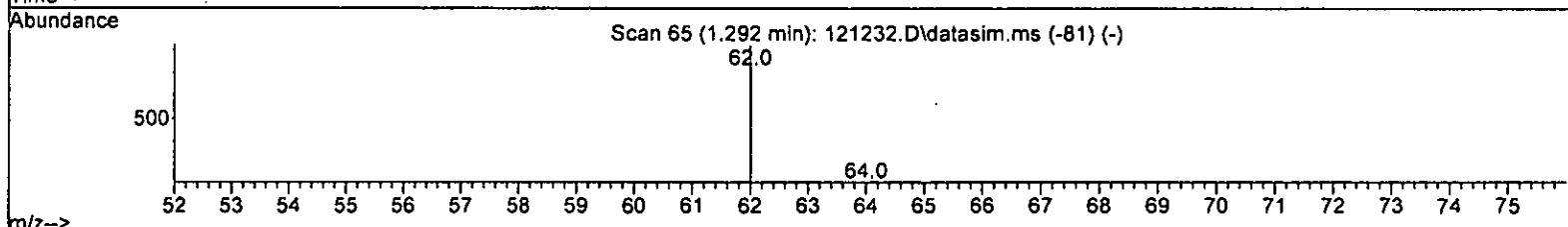
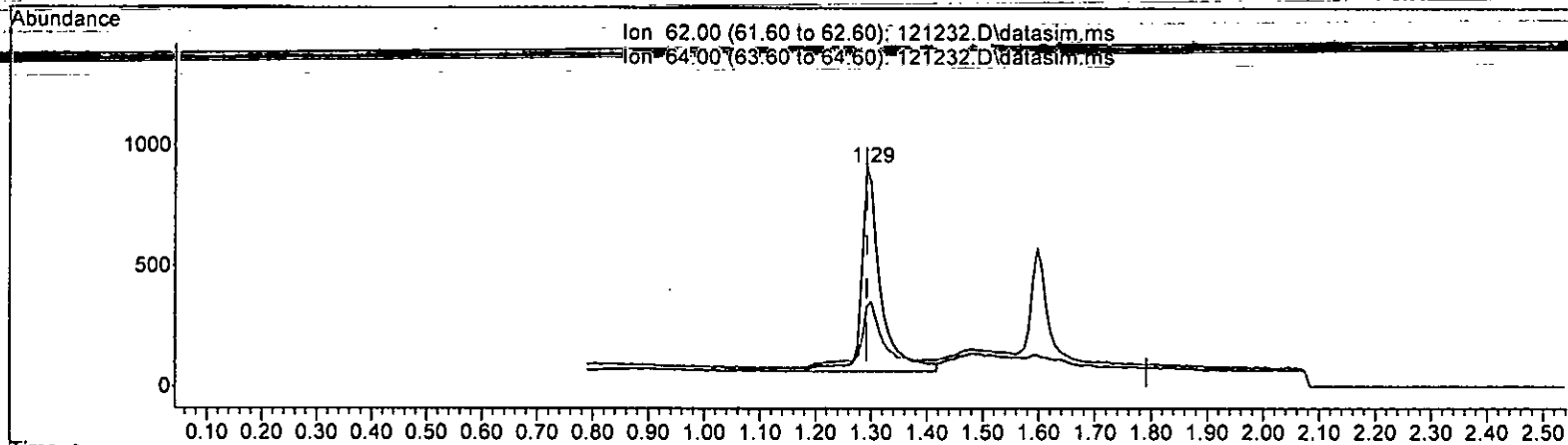
Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(6) Vinyl chloride (TMP)

1.292min (-0.000) 0.572 ppb

response	2023	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	29.83
0.00	0.00	0.00
0.00	0.00	0.00

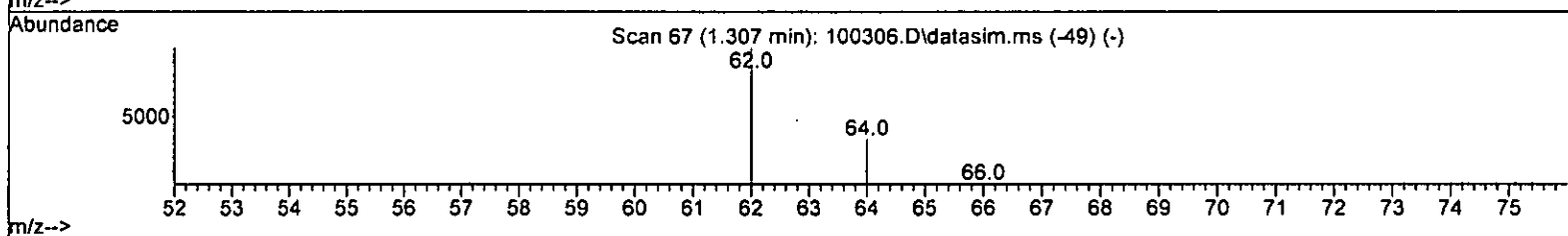
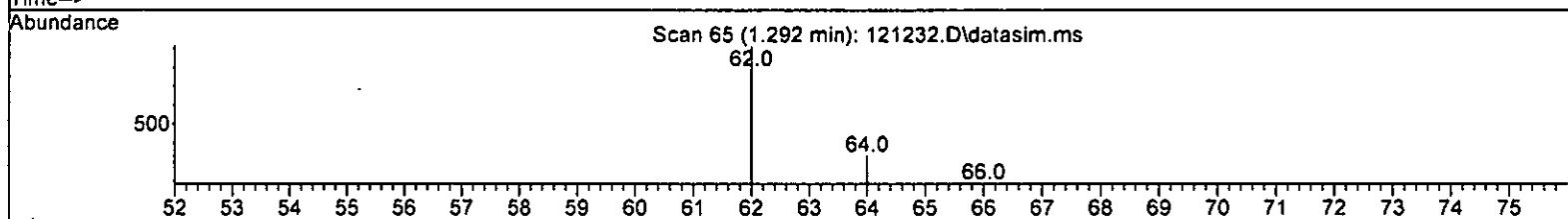
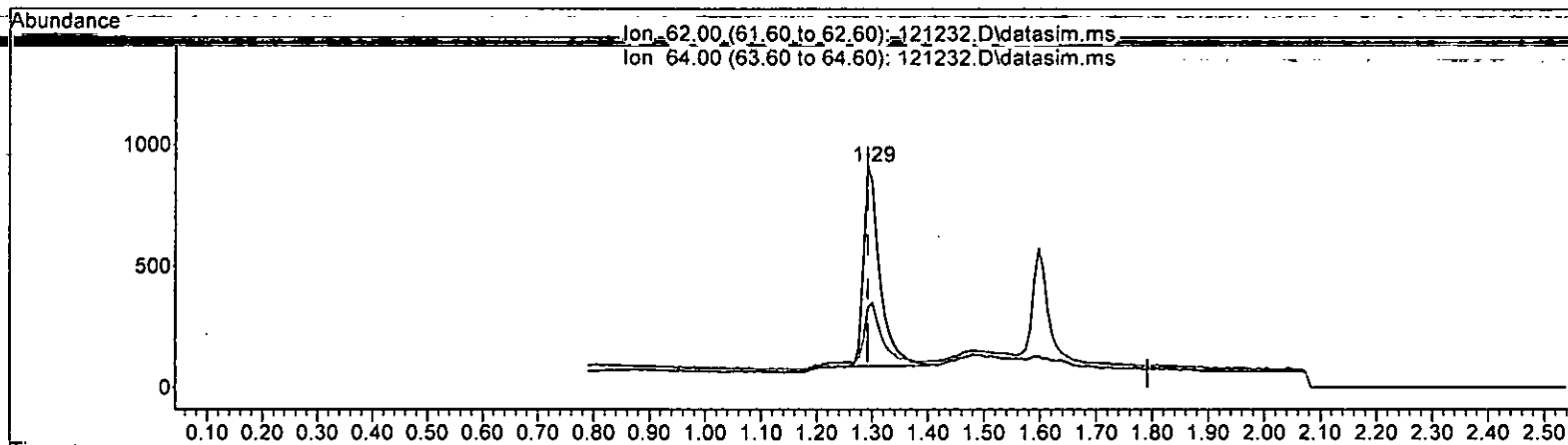
*12/15 LM*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 121232.D\data.ms

(6) Vinyl chloride (TMP)  
 1.292min (-0.000) 0.472 ppb m

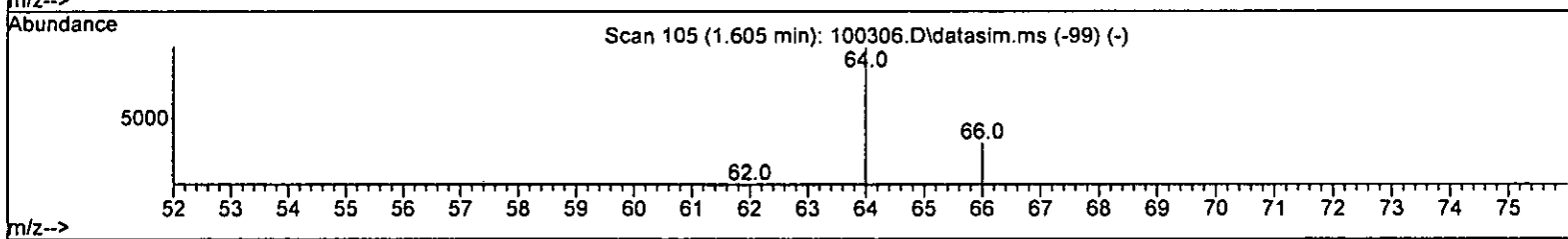
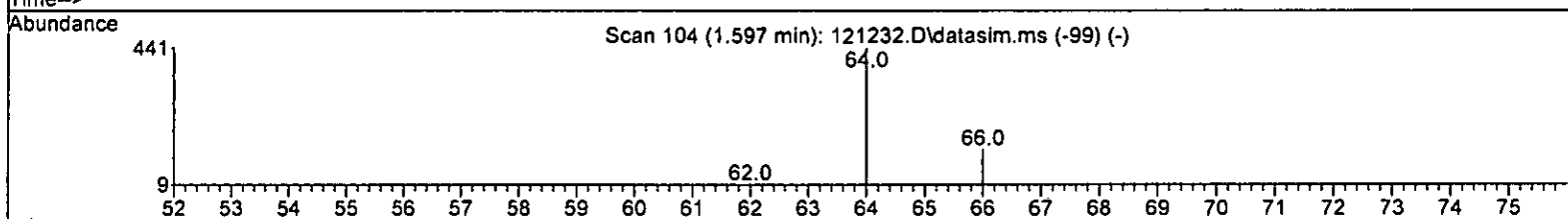
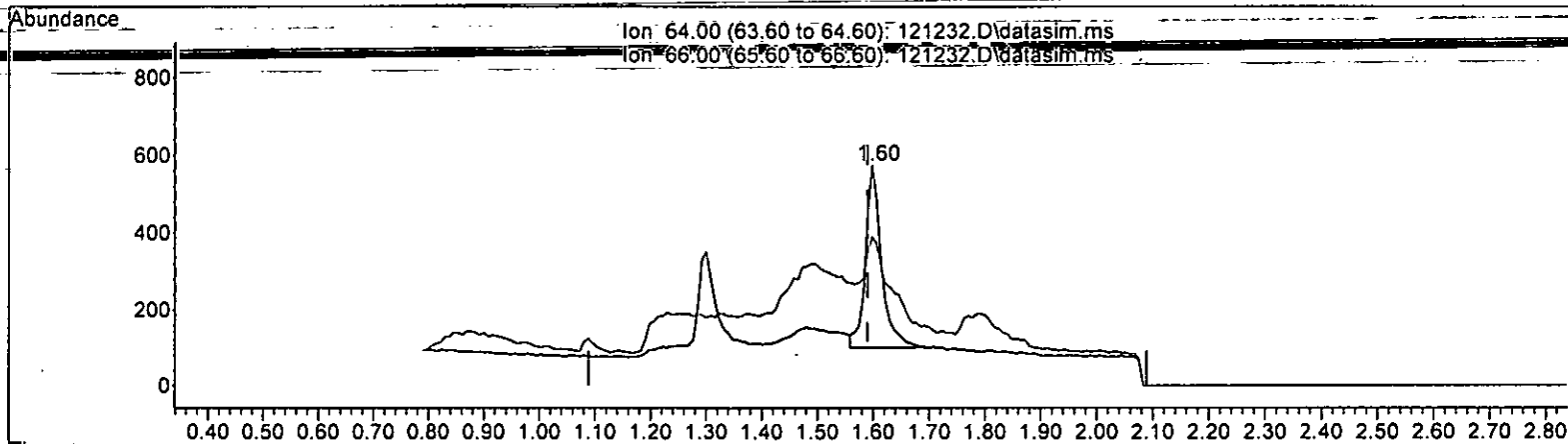
response	1669
Ion	Exp% Act%
62.00	100.00 100.00
64.00	28.80 36.18
0.00	0.00 0.00
0.00	0.00 0.00

*LM 12/15/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(8) Chloroethane (TMP)

1.597min (+ 0.008) 0.581 ppb

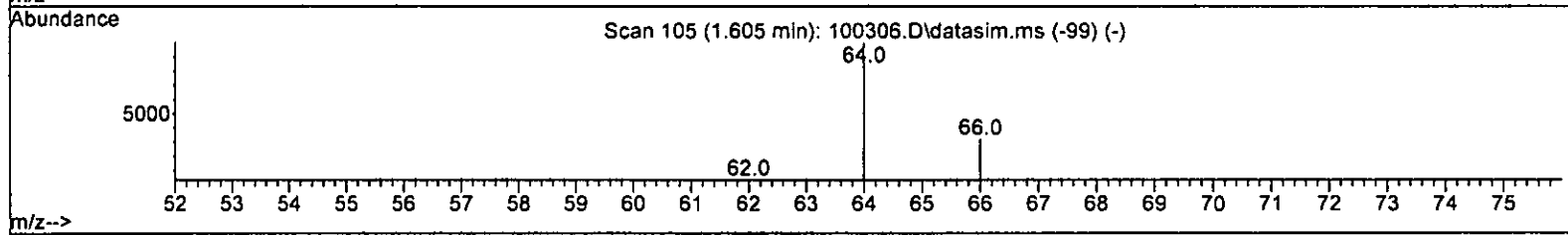
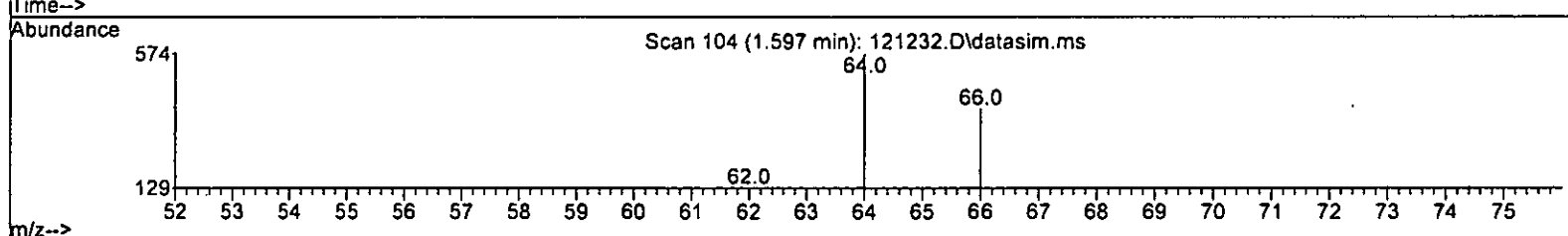
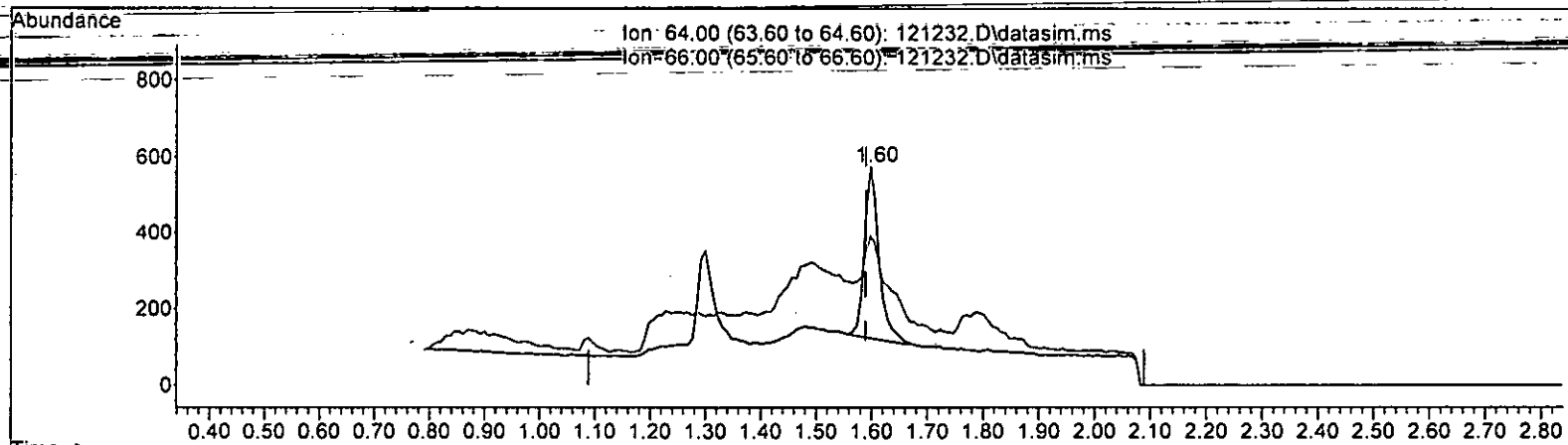
response	945	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	29.60	49.68
0.00	0.00	0.00
0.00	0.00	0.00

*12/15/2022*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(8) Chloroethane (TMP)

1.597min (+ 0.008) 0.499 ppb m

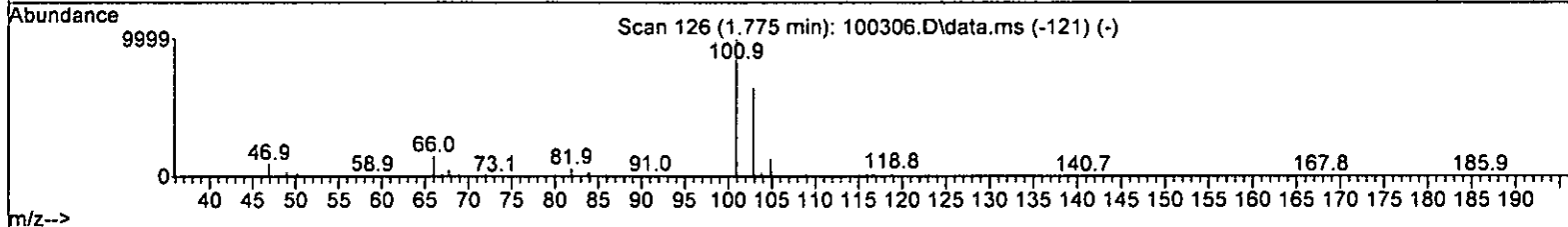
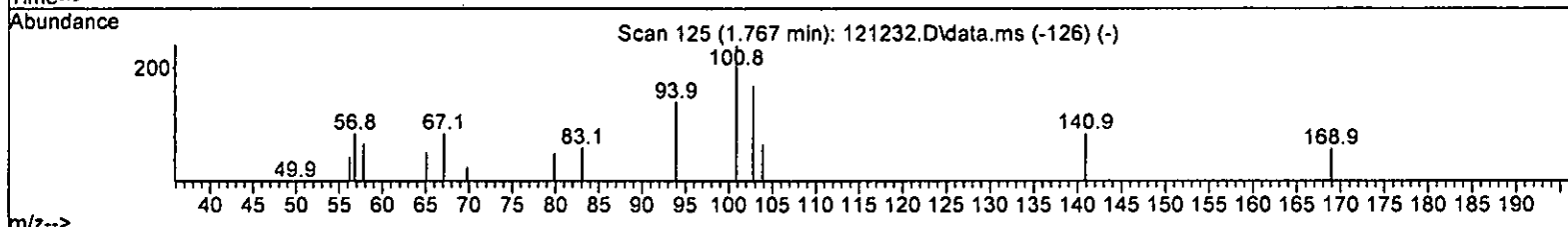
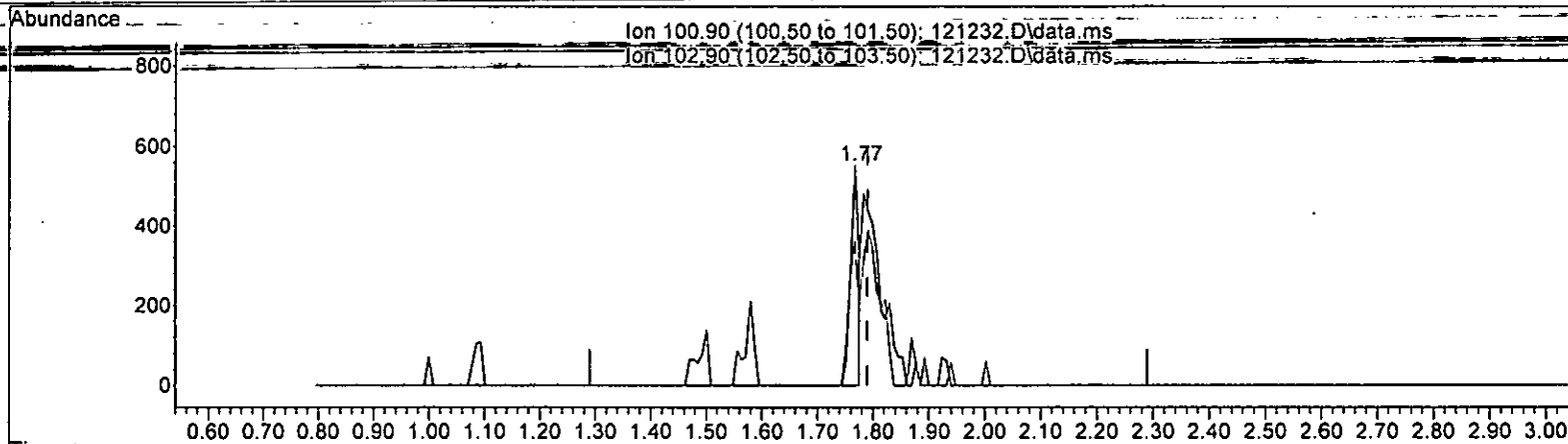
response	812	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	29.60	67.83#
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 0.136 ppb

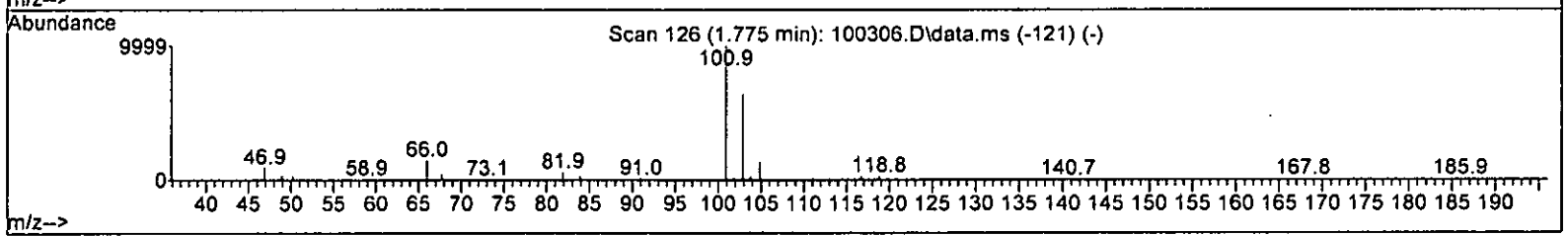
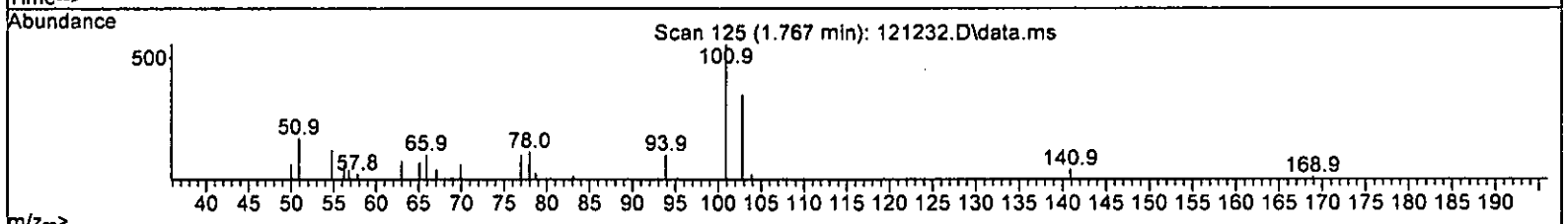
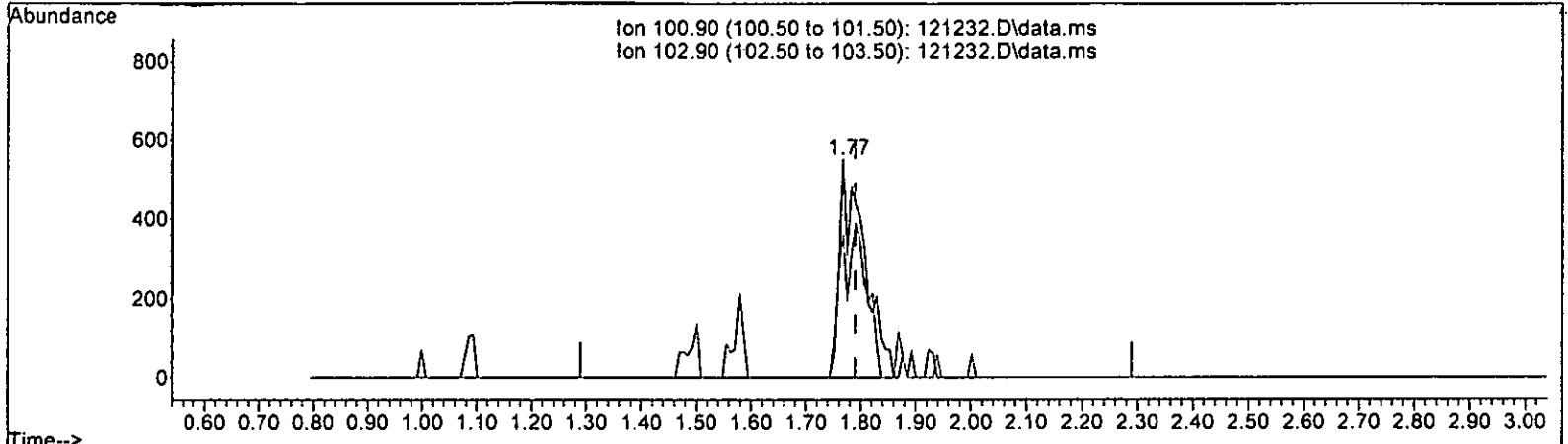
response	571
Ion	Exp% Act%
100.90	100.00 100.00
102.90	62.70 65.40
0.00	0.00 0.00
0.00	0.00 0.00

12/15 LM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(9) Trichlorofluoromethane (TMP)

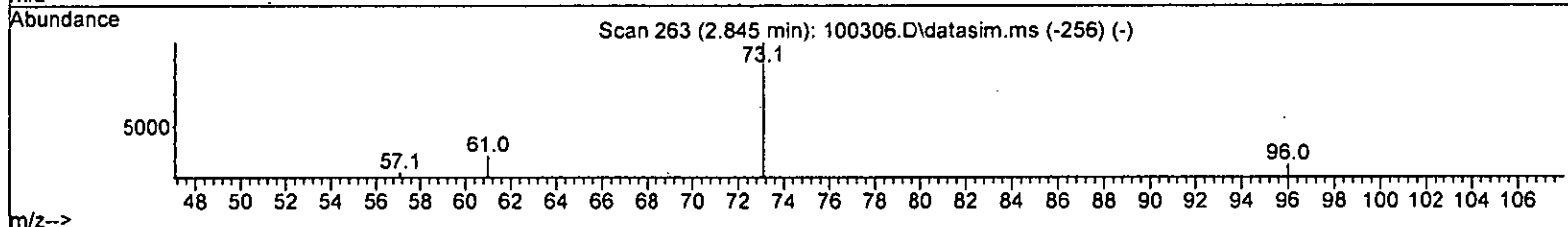
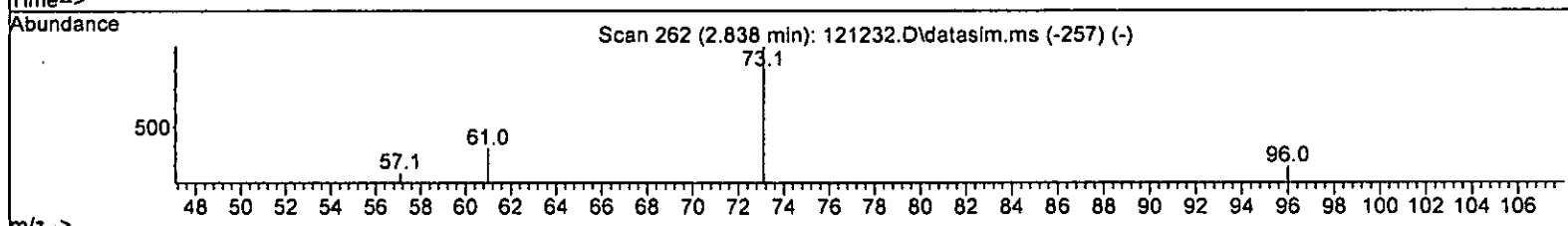
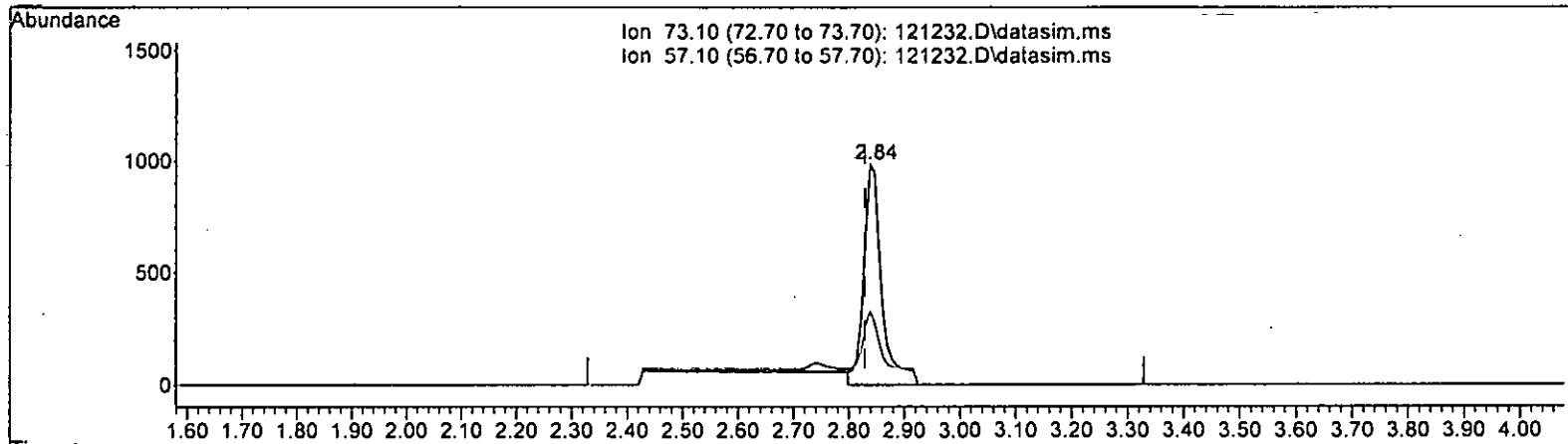
1.767min (-0.023) 0.410 ppb m

response	1723		
Ion	Exp%	Act%	
100.90	100.00	100.00	<i>1715 DM</i>
102.90	62.70	65.40	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAI 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.838min (+ 0.009) 0.620 ppb

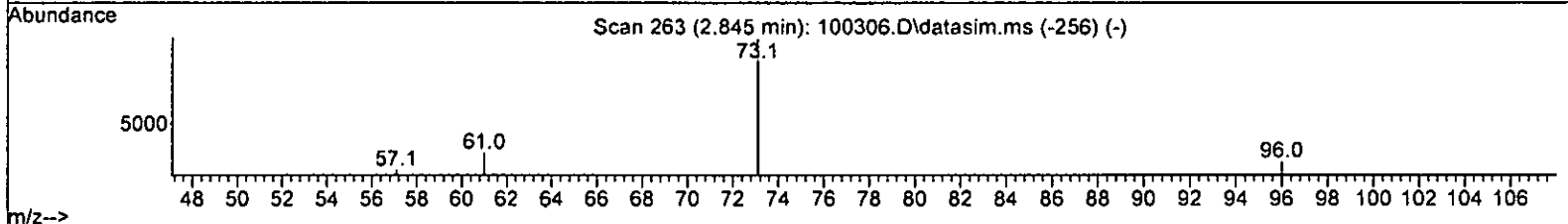
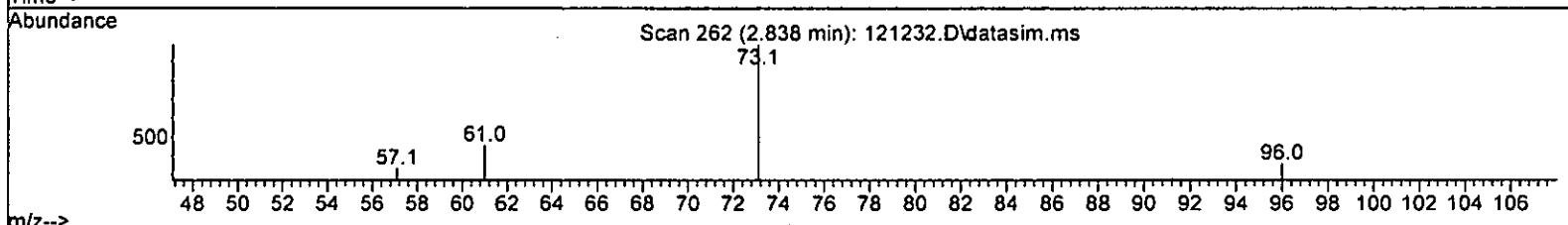
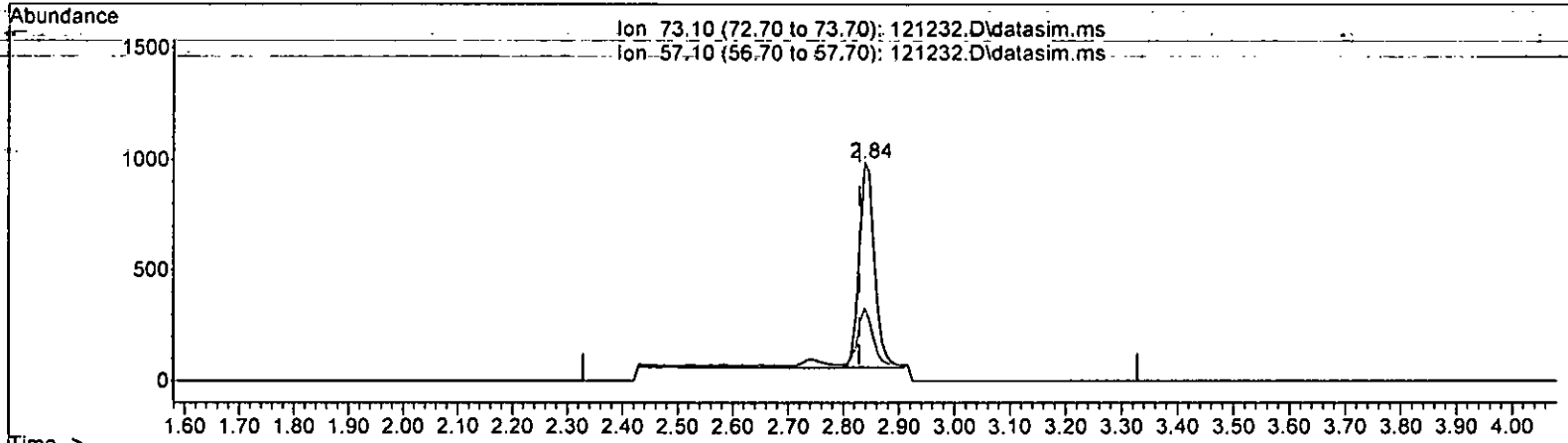
response	2198	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	24.80	33.43
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: 12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.838min (+ 0.009) 0.499 ppb m

response	1768		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	24.80	33.43	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 LM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-2S3  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.04
3 S Dibromofluoromethane	10.000	9.785	2.1	100	0.00
4 TMP Dichlorodifluoromethane	0.500	0.437	12.6	100	0.00
5 TMP Chloromethane	0.500	0.000	100.0#	0	-1.22#
6 TMP Vinyl chloride	0.500	0.472	5.6	98	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP Chloroethane	0.500	0.499	0.2	86	0.00
9 TMP Trichlorofluoromethane	0.500	0.410	18.0	97	-0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	2.500	2.783	-11.3	100	0.02
12 TMP 1,1-Dichloroethene	0.500	0.494	1.2	100	0.00
13 TMP Hexane	0.500	0.544	-8.8	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	2.500	2.373	5.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.500	0.499	0.2	98	0.00
17 TMP trans-1,2-Dichloroethene	0.500	0.485	3.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.500	0.483	3.4	100	0.00
19 TMP 1,1-Dichloroethane	0.500	0.503	-0.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.500	0.417	16.6	100	0.00
21 TMP 2,2-Dichloropropane	0.500	0.564	-12.8	100	0.00
22 TMP cis-1,2-Dichloroethene	0.500	0.503	-0.6	100	0.00
23 TMP Chloroform	0.500	0.565	-13.0	100	0.00
24 TMP 2-Butanone (MEK)	2.500	2.888	-15.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.500	0.553	-10.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.500	0.513	-2.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.500	0.498	0.4	100	0.00
28 TMP 1,1-Dichloropropene	0.500	0.513	-2.6	100	0.00
29 TMP Carbon tetrachloride	0.500	0.453	9.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.615	3.8	100	0.00
31 TMP Benzene	0.500	0.504	-0.8	100	0.00
32 TMP Trichloroethene	0.500	0.493	1.4	100	0.00
33 TMP 1,2-Dichloropropane	0.500	0.563	-12.6	100	0.00
34 TMP Bromodichloromethane	0.500	0.585	-17.0	100	0.00
35 S Toluene-d8	10.000	10.060	-0.6	100	0.00
36 TMP Dibromomethane	0.500	0.552	-10.4	100	0.00
37 TMP 4-Methyl-2-pentanone	2.500	2.469	1.2	100	0.00
38 TMP cis-1,3-Dichloropropene	0.500	0.481	3.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.500	0.504	-0.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.500	0.433	13.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.500	0.495	1.0	100	0.00
43 TMP 2-Hexanone	2.500	2.784	-11.4	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. RRT Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.500	0.504	-0.8	100	0.00
45 TMP Tetrachloroethene	0.500	0.515	-3.0	100	0.00
46 TMP Dibromochloromethane	0.500	0.467	6.6	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.500	0.504	-0.8	100	0.00
48 TMP Chlorobenzene	0.500	0.488	2.4	100	0.00
49 TMP Ethylbenzene	0.500	0.513	-2.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.500	0.516	-3.2	100	0.00
51 TMP m,p-Xylene	1.000	1.038	-3.8	100	0.00
52 TMP o-Xylene	0.500	0.522	-4.4	100	0.00
53 TMP Styrene	0.500	0.460	8.0	100	0.00
54 TMP Isopropylbenzene	0.500	0.499	0.2	100	0.00
55 TMP Bromoform	0.500	0.462	7.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.129	-1.3	100	0.00
58 TMP n-Propylbenzene	0.500	0.494	1.2	100	0.00
59 TMP Bromobenzene	0.500	0.477	4.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.500	0.506	-1.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.500	0.502	-0.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.500	0.463	7.4	100	0.00
63 TMP 2-Chlorotoluene	0.500	0.488	2.4	100	0.00
64 TMP 4-Chlorotoluene	0.500	0.518	-3.6	100	0.00
65 TMP tert-Butylbenzene	0.500	0.496	0.8	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.500	0.521	-4.2	100	0.00
67 TMP sec-Butylbenzene	0.500	0.497	0.6	100	0.00
68 TMP p-Isopropyltoluene	0.500	0.495	1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	0.500	0.499	0.2	100	0.00
70 TMP 1,4-Dichlorobenzene	0.500	0.506	-1.2	100	0.00
71 TMP 1,2-Dichlorobenzene	0.500	0.545	-9.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.500	0.469	6.2	100	0.00
74 TMP Hexachlorobutadiene	0.500	0.485	3.0	100	0.00
75 TMP Naphthalene	0.500	0.000	100.0#	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.500	0.490	2.0	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.04
3 S Dibromofluoromethane	0.264	0.258	2.3	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.602	12.5	100	0.00
5 TMP Chloromethane	0.883	0.000#	100.0#	0#	-1.22#
6 TMP Vinyl chloride	0.732	0.690	5.7	98	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP Chloroethane	0.336	0.336	0.0	86	0.00
9 TMP Trichlorofluoromethane	0.870	0.713	18.0	97	-0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.041	-10.8	100	0.02
12 TMP 1,1-Dichloroethene	0.240	0.237	1.3	100	0.00
13 TMP Hexane	0.434	0.472	-8.8	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.044	4.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.731	0.3	98	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.264	2.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.900	3.4	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.508	-0.8	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.247	16.6	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.357	-13.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.288	-0.7	100	0.00
23 TMP Chloroform	0.477	0.539	-13.0	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.211	-15.3	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.767	-10.5	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.424	-2.7	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.438	0.5	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.371	-2.5	100	0.00
29 TMP Carbon tetrachloride	0.367	0.333	9.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP Benzene	0.999	1.007	-0.8	100	0.00
32 TMP Trichloroethene	0.316	0.311	1.6	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.333	-12.5	100	0.00
34 TMP Bromodichloromethane	0.357	0.418	-17.1	100	0.00
35 S Toluene-d8	0.960	0.966	-0.6	100	0.00
36 TMP Dibromomethane	0.169	0.187	-10.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.052	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.412	4.0	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.864	-0.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.419	13.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.261	1.1	100	0.00
43 TMP 2-Hexanone	0.335	0.373	-11.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.473	-0.6	100	0.00
45 TMP Tetrachloroethene	0.342	0.353	-3.2	100	0.00
46 TMP Dibromochloromethane	0.354	0.330	6.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.330	-0.9	100	0.00
48 TMP Chlorobenzene	0.925	0.902	2.5	100	0.00
49 TMP Ethylbenzene	1.611	1.652	-2.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.343	-3.0	100	0.00
51 TMP m,p-Xylene	0.607	0.630	-3.8	100	0.00
52 TMP o-Xylene	0.595	0.621	-4.4	100	0.00
53 TMP Styrene	0.973	0.894	8.1	100	0.00
54 TMP Isopropylbenzene	1.564	1.559	0.3	100	0.00
55 TMP Bromoform	0.252	0.233	7.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.855	-1.3	100	0.00
58 TMP n-Propylbenzene	3.281	3.243	1.2	100	0.00
59 TMP Bromobenzene	0.770	0.735	4.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.473	-1.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.700	-0.3	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.543	7.3	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.895	2.4	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.363	-3.6	100	0.00
65 TMP tert-Butylbenzene	2.141	2.123	0.8	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.581	-4.2	100	0.00
67 TMP sec-Butylbenzene	3.103	3.087	0.5	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.647	0.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.430	0.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.478	-1.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.505	-9.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.919	6.2	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.526	3.0	100	0.00
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.885	2.1	100	0.00

(#) = Out of Range

SPCC's out = 6 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	48353	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38043	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21492	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	12484	9.785	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	97.90%		
30) 1,2-Dichloroethane-d4	4.36	102	2805	9.615	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	96.20%		
35) Toluene-d8	5.98	98	46703	10.060	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	100.60%		
57) 4-Bromofluorobenzene	8.38	95	18379	10.129	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	101.30%		
<b>Target Compounds</b>							
2) Ethanol	1.90	45	83	No Calib			
4) Dichlorodifluoromethane	1.09	85	1455	0.437	ppb	93	
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.29	62	1669m	0.472	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.60	64	812m	0.499	ppb		
9) Trichlorofluoromethane	1.77	101	1723m	0.410	ppb		
10) 2-Propanol	2.41	45	312	No Calib			
11) Acetone	2.28	58	501	2.783	ppb	#	38
12] 1,1-Dichloroethene	2.19	96	574	0.494	ppb		90
13) Hexane	3.05	57	1141	0.544	ppb		89
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.74	59	530	2.373	ppb	#	31
16] Methyl t-butyl ether (...)	2.84	73	1768m	0.499	ppb		
17] trans-1,2-Dichloroethene	2.83	96	638	0.485	ppb		91
18) Diisopropyl ether (DIPE)	3.24	45	2175	0.483	ppb		91
19] 1,1-Dichloroethane	3.18	63	1227	0.503	ppb		95
20) Ethyl t-butyl ether (E...)	3.54	87	597	0.417	ppb		85
21) 2,2-Dichloropropane	3.67	77	862	0.564	ppb		85
22] cis-1,2-Dichloroethene	3.67	96	697	0.503	ppb		95
23) Chloroform	3.95	83	1303	0.565	ppb		90
24) 2-Butanone (MEK)	3.71	43	2554	2.888	ppb		90
25) t-Amyl methyl ether (T...)	4.50	73	1855	0.553	ppb		94
26] 1,2-Dichloroethane (EDC)	4.42	62	1025	0.513	ppb		98
27] 1,1,1-Trichloroethane	4.08	97	1059	0.498	ppb		96
28) 1,1-Dichloropropene	4.22	75	898	0.513	ppb		88
29) Carbon tetrachloride	4.21	117	804	0.453	ppb		73
31] Benzene	4.39	78	2435	0.504	ppb		98
32] Trichloroethene	4.93	95	753	0.493	ppb		95
33) 1,2-Dichloropropane	5.13	63	806	0.563	ppb	#	91
34) Bromodichloromethane	5.37	83	1011	0.585	ppb		96
36) Dibromomethane	5.23	93	451	0.552	ppb		82

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

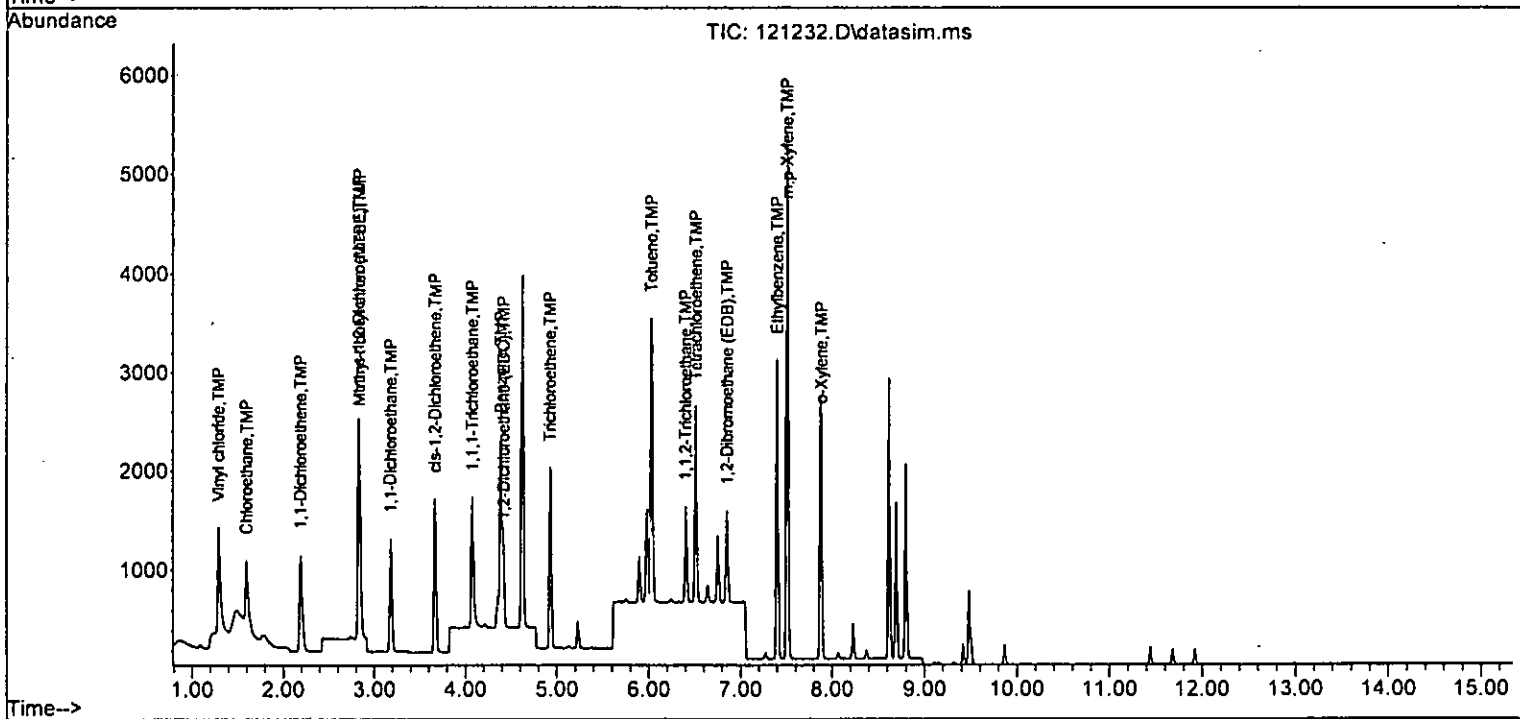
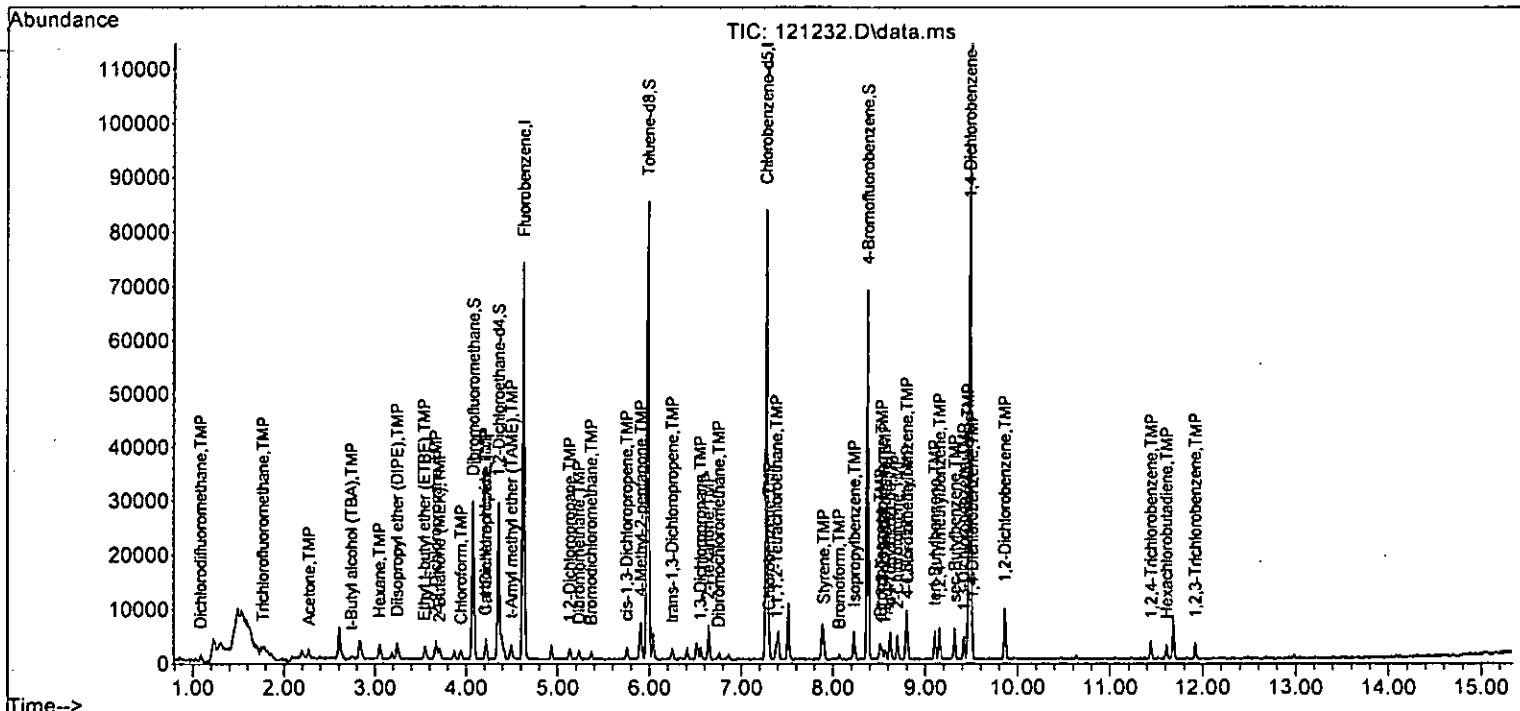
Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	623	2.469	ppb	# 80
38) cis-1,3-Dichloropropene	5.75	75	996	0.481	ppb	84
40) Toluene	6.03	92	1644	0.504	ppb	90
41) trans-1,3-Dichloropropene	6.25	75	797	0.433	ppb	83
42) 1,1,2-Trichloroethane	6.40	83	497	0.495	ppb	98
43) 2-Hexanone	6.64	43	3552	2.784	ppb	89
44) 1,3-Dichloropropane	6.55	76	900	0.504	ppb	86
45) Tetrachloroethene	6.51	164	671	0.515	ppb	98
46) Dibromochloromethane	6.75	129	628	0.467	ppb	82
47) 1,2-Dibromoethane (EDB)	6.85	107	628	0.504	ppb	99
48) Chlorobenzene	7.30	112	1716	0.488	ppb	95
49) Ethylbenzene	7.40	91	3142	0.513	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	653	0.516	ppb	87
51) m,p-Xylene	7.51	106	2398	1.038	ppb	# 67
52) o-Xylene	7.88	106	1181	0.522	ppb	97
53) Styrene	7.90	104	1701	0.460	ppb	84
54) Isopropylbenzene	8.23	105	2966	0.499	ppb	95
55) Bromoform	8.07	173	443	0.462	ppb	71
58) n-Propylbenzene	8.62	91	3485	0.494	ppb	97
59) Bromobenzene	8.52	156	790	0.477	ppb	96
60) 1,3,5-Trimethylbenzene	8.80	105	2657	0.506	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.53	83	752	0.502	ppb	82
62) 1,2,3-Trichloropropane	8.56	75	583	0.463	ppb	87
63) 2-Chlorotoluene	8.70	91	2036	0.488	ppb	86
64) 4-Chlorotoluene	8.81	91	2539	0.518	ppb	95
65) tert-Butylbenzene	9.10	119	2281	0.496	ppb	81
66) 1,2,4-Trimethylbenzene	9.15	105	2774	0.521	ppb	98
67) sec-Butylbenzene	9.32	105	3317	0.497	ppb	99
68) p-Isopropyltoluene	9.46	119	2845	0.495	ppb	95
69) 1,3-Dichlorobenzene	9.42	146	1537	0.499	ppb	95
70) 1,4-Dichlorobenzene	9.51	146	1588	0.506	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	1617	0.545	ppb	94
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.44	180	988	0.469	ppb	86
74) Hexachlorobutadiene	11.61	225	565	0.485	ppb	88
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	11.92	180	951	0.490	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

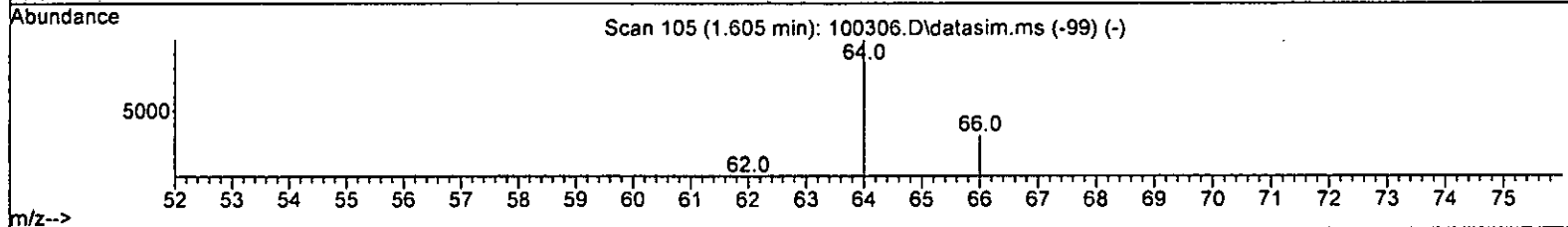
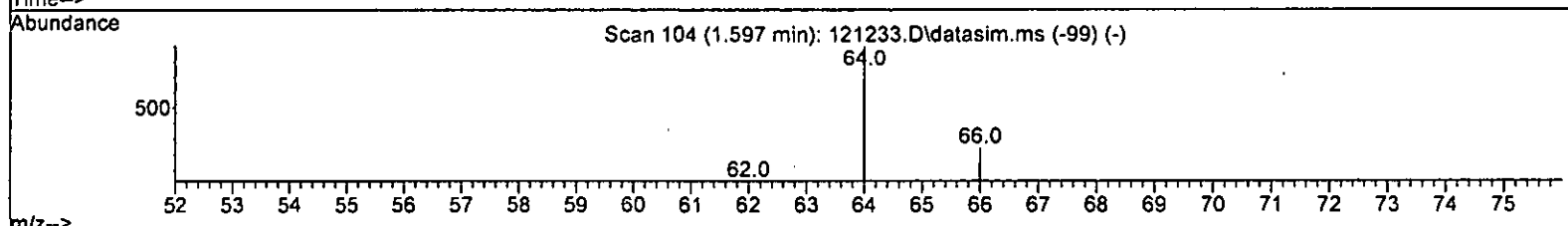
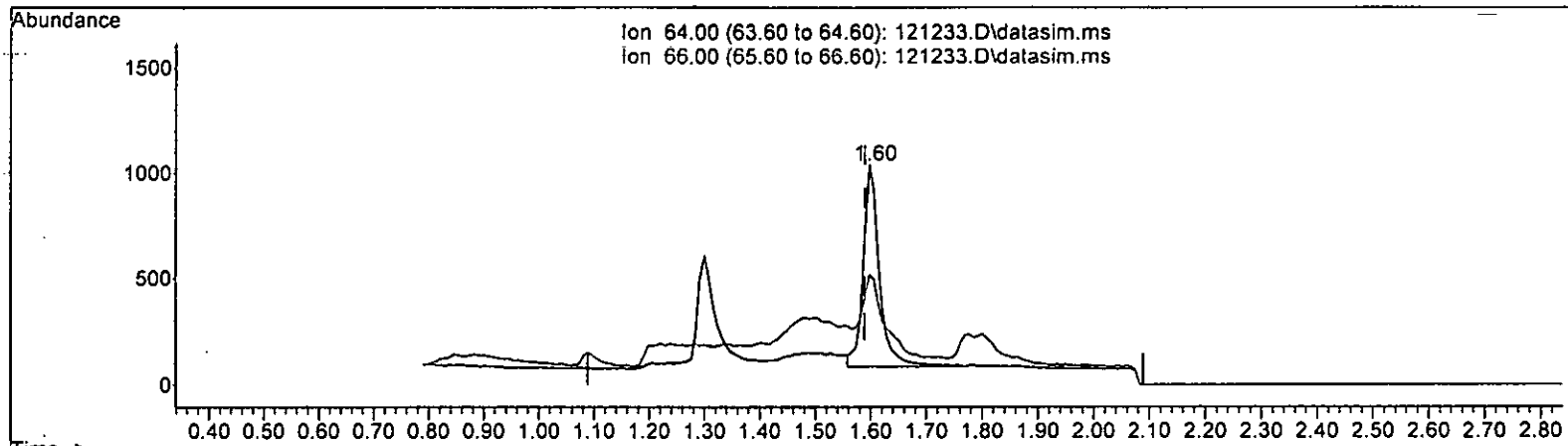
Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-2SK  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

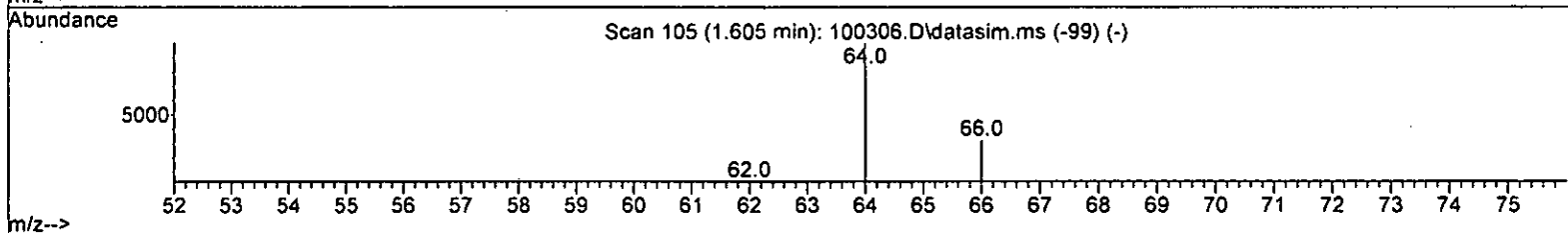
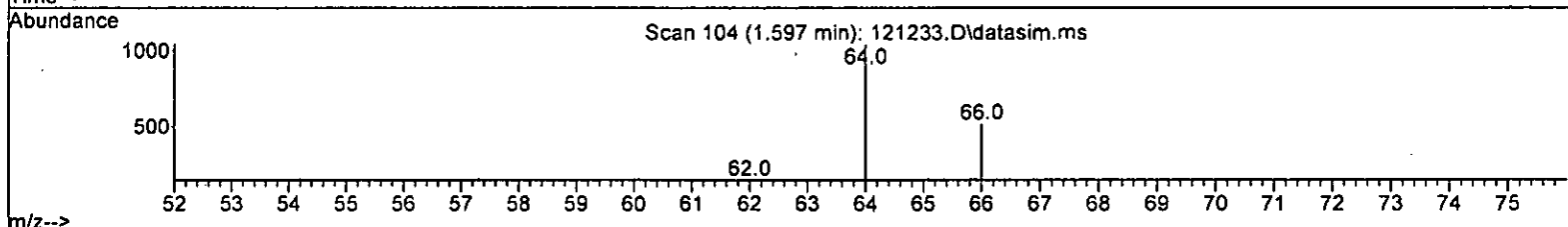
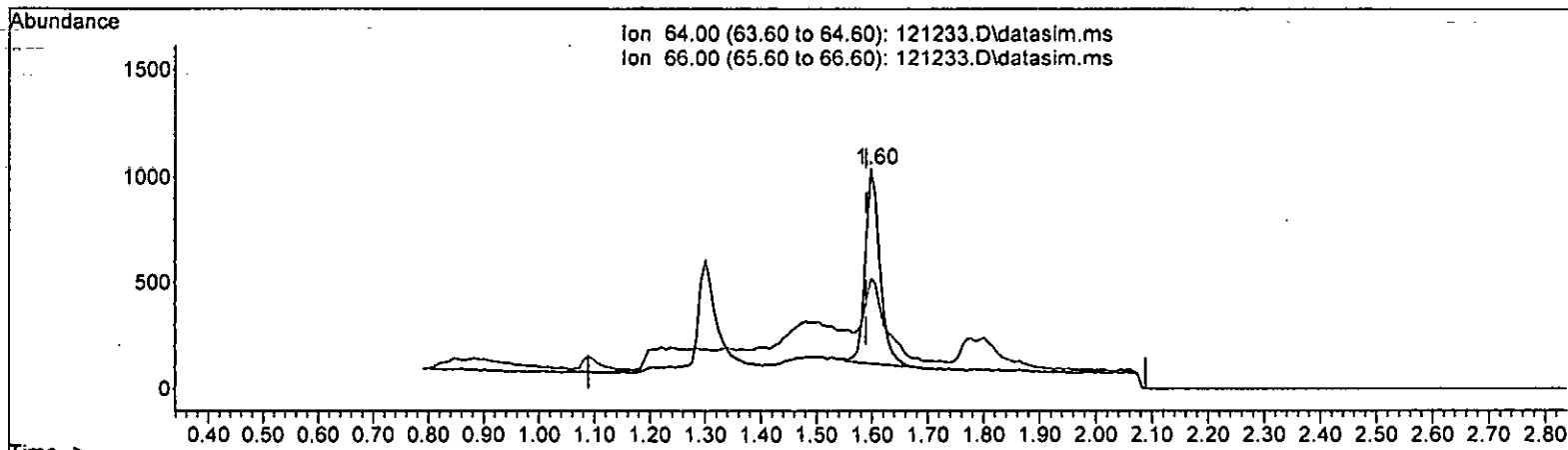
<del>(8) Chloroethane (TMP)</del>			
<del>1.597min (+ 0.008)</del>		<del>1.165 ppb</del>	
<del>response</del>	<del>1918</del>		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	29.60	29.45	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Mis Det*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

(8) Chloroethane (TMP)

1.597min (+ 0.008) 1.018 ppb m

response	1676		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	29.60	49.62	
0.00	0.00	0.00	
0.00	0.00	0.00	

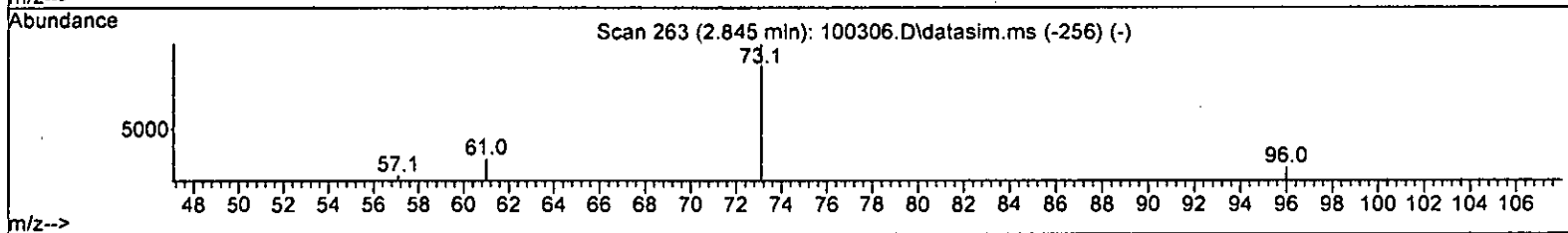
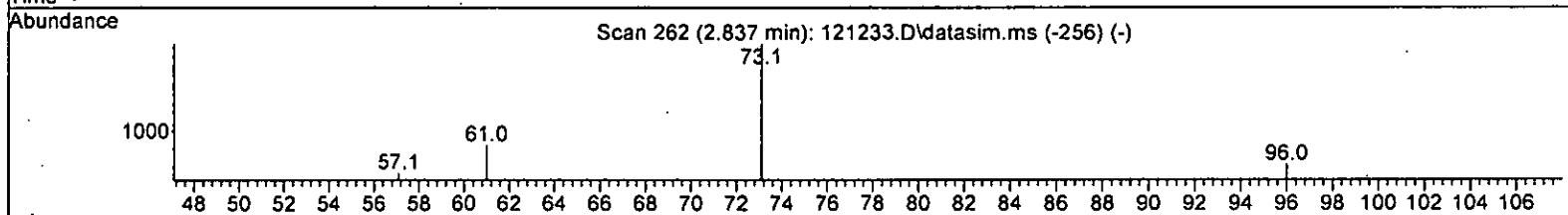
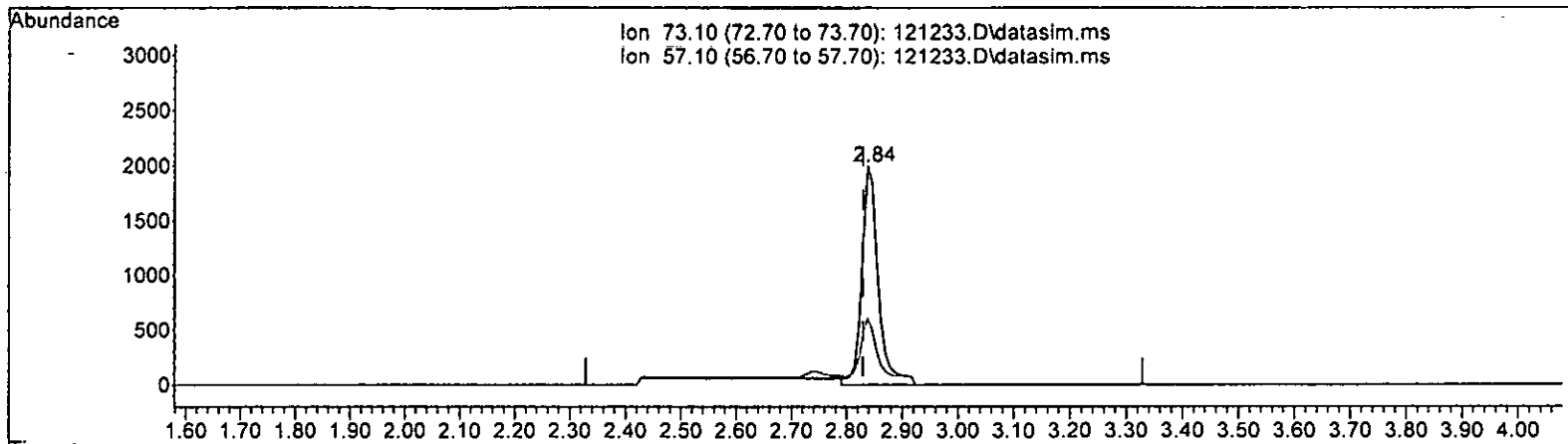
*12/15 DM*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

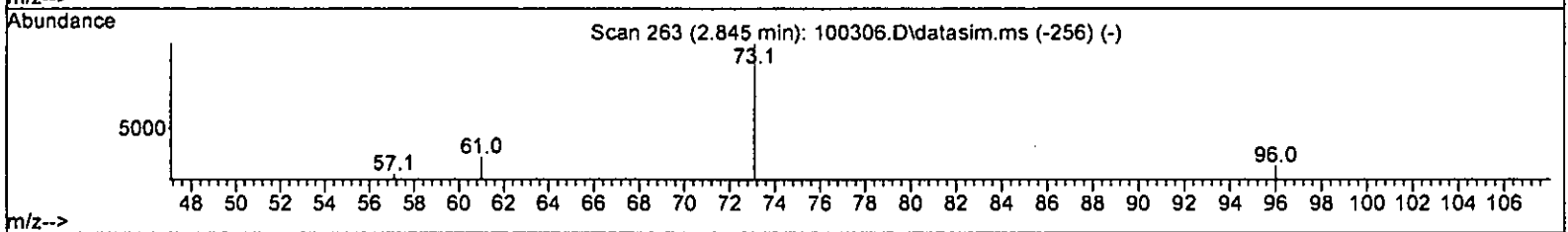
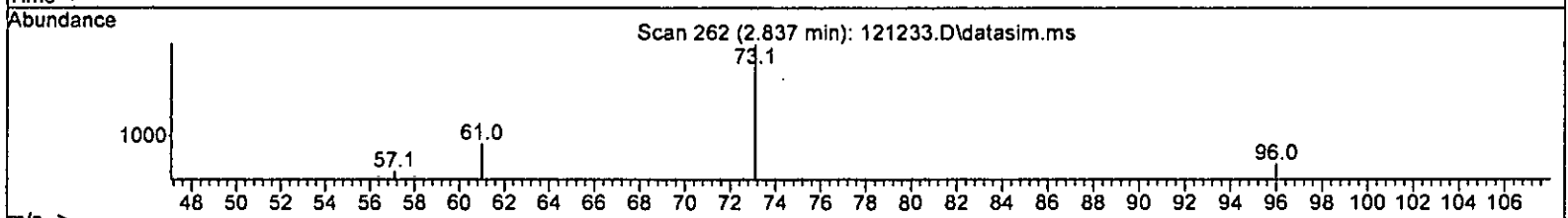
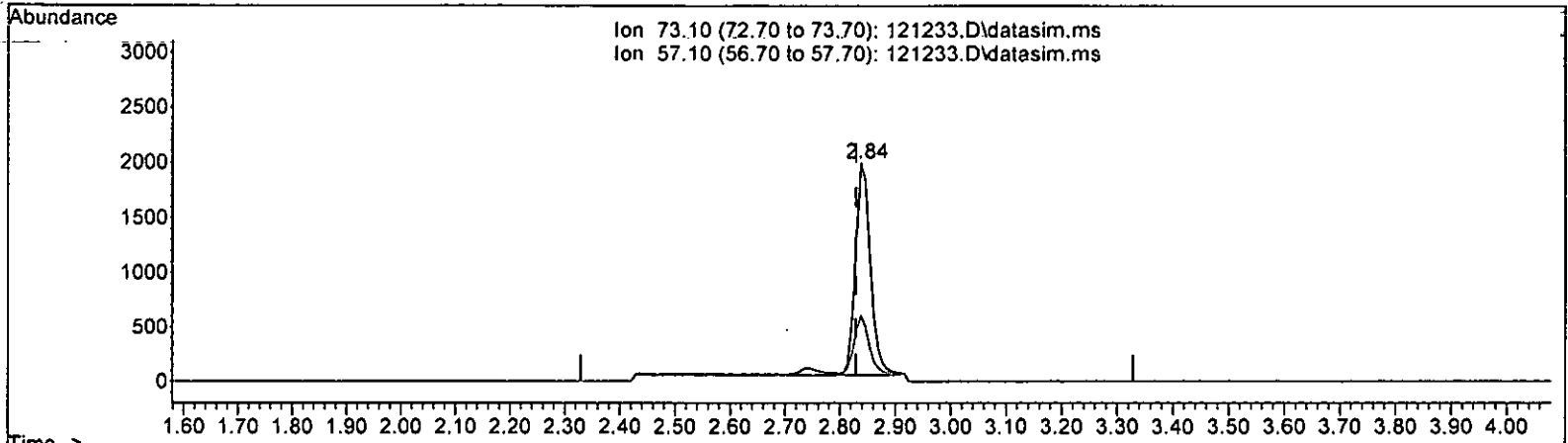
2.837min (+ 0.008) 1/141 ppb

response	4094		
Ion	Exp%	Act%	
73.10	100.00	100.00	<i>17/15 OK</i>
57.10	24.80	30.16	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 121233.D\data.ms

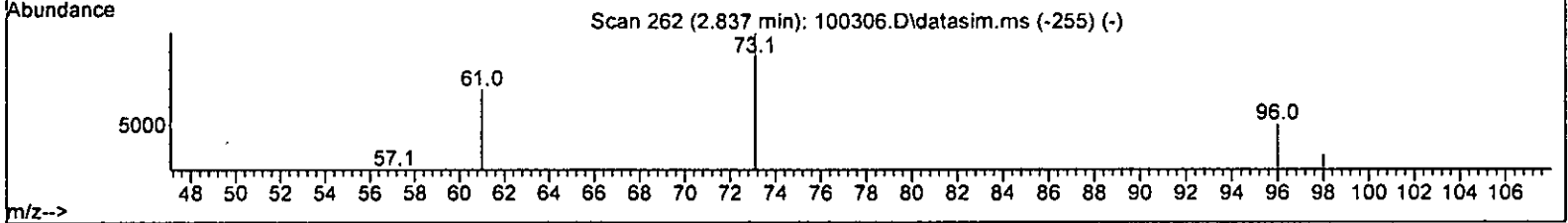
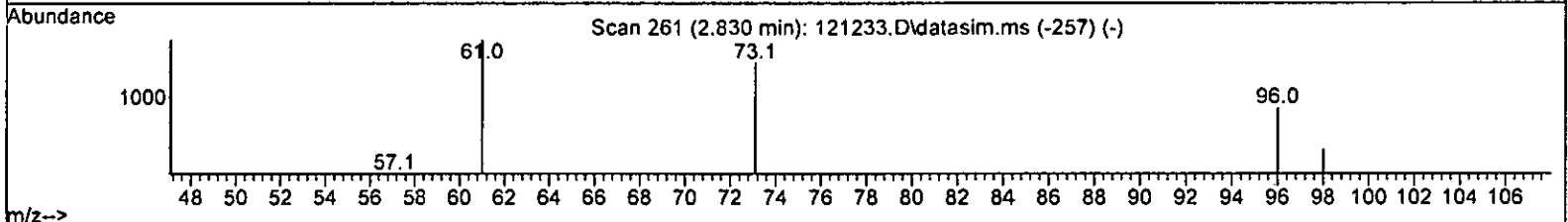
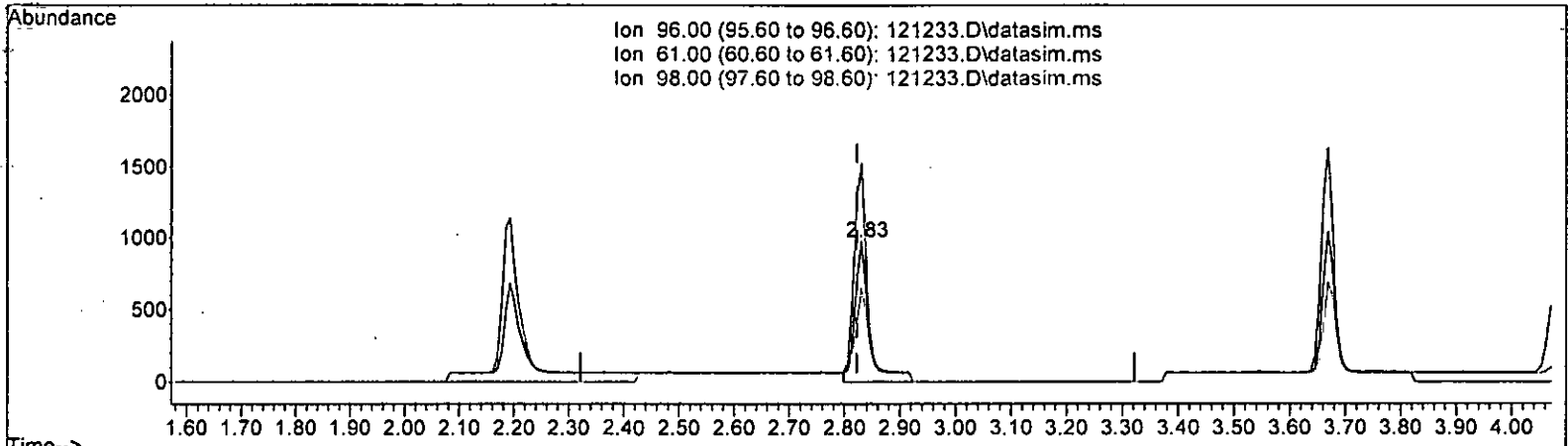
(16) Methyl t-butyl ether (MTBE) (TMP)  
 2.837min (+ 0.008) 1.013 ppb m

response	3634		
Ion	Exp%	Act%	
73.10	100.00	100.00	<i>17/15 Jan</i>
57.10	24.80	30.16	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.830min (+ 0.008) 1.311 ppb

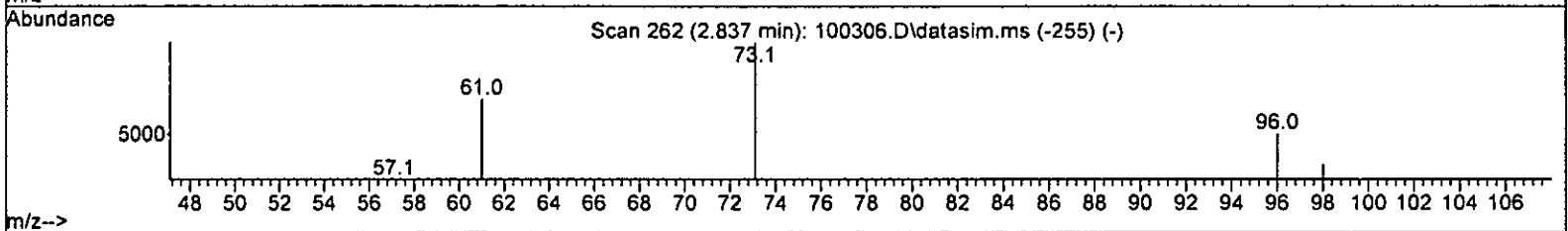
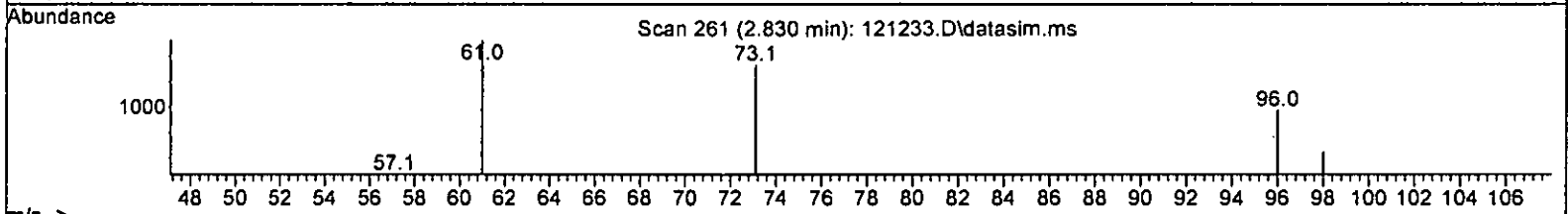
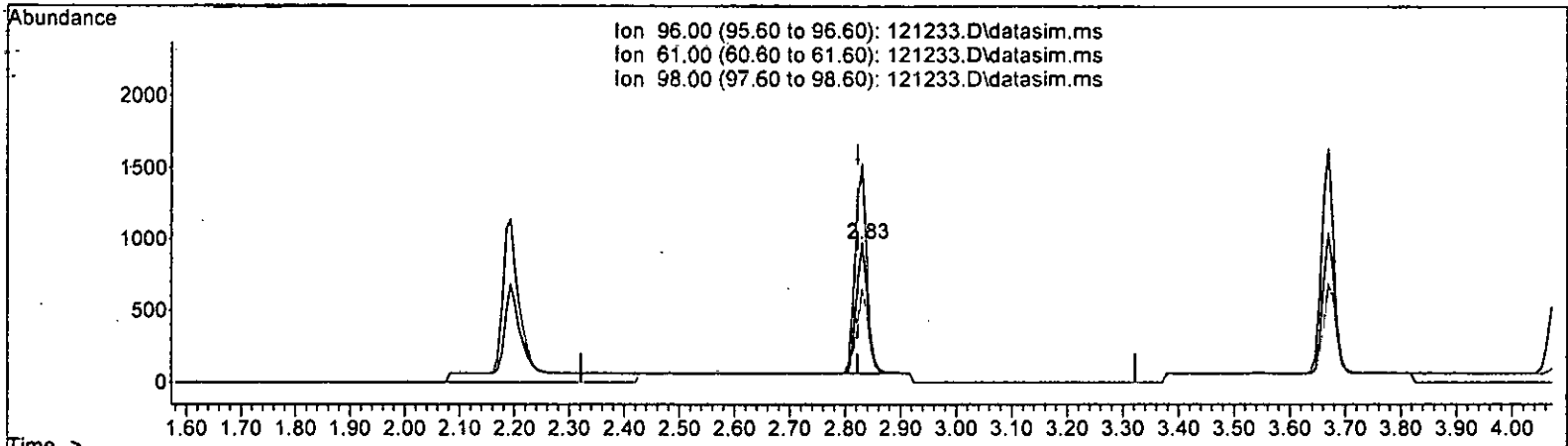
response	1747	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	171.80	156.57
98.00	61.00	66.12
0.00	0.00	0.00

*Handwritten note: 12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.830min (+ 0.008) 0.975 ppb m

response	1299		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	171.80	156.57	
98.00	61.00	66.12	
0.00	0.00	0.00	

*LM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.801	2.0	100	0.00
4 TMP Dichlorodifluoromethane	1.000	1.066	-6.6	100	0.00
5 TMP Chloromethane	1.000	1.087	-8.7	100	0.00
6 TMP Vinyl chloride	1.000	0.971	2.9	100	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP Chloroethane	1.000	1.018	-1.8	87	0.00
9 TMP Trichlorofluoromethane	1.000	0.916	8.4	95	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	5.000	5.627	-12.5	100	0.00
12 TMP 1,1-Dichloroethene	1.000	0.996	0.4	100	0.00
13 TMP Hexane	1.000	1.093	-9.3	100	0.00
14 TMP Methylene chloride	1.000	0.000	100.0#	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	5.000	5.536	-10.7	100	0.02
16 TMP Methyl t-butyl ether (MTBE)	1.000	1.013	-1.3	99	0.00
17 TMP trans-1,2-Dichloroethene	1.000	0.975	2.5	74	0.00
18 TMP Diisopropyl ether (DIPE)	1.000	0.990	1.0	100	0.00
19 TMP 1,1-Dichloroethane	1.000	1.026	-2.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	1.000	1.065	-6.5	100	0.00
21 TMP 2,2-Dichloropropane	1.000	1.022	-2.2	100	0.00
22 TMP cis-1,2-Dichloroethene	1.000	1.024	-2.4	100	0.00
23 TMP Chloroform	1.000	1.025	-2.5	100	0.00
24 TMP 2-Butanone (MEK)	5.000	5.403	-8.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	1.000	0.980	2.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	1.000	1.026	-2.6	100	0.00
27 TMP 1,1,1-Trichloroethane	1.000	1.014	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	1.000	1.042	-4.2	100	0.00
29 TMP Carbon tetrachloride	1.000	0.994	0.6	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.143	8.6	100	0.00
31 TMP Benzene	1.000	1.034	-3.4	100	0.00
32 TMP Trichloroethene	1.000	1.012	-1.2	100	0.00
33 TMP 1,2-Dichloropropane	1.000	1.001	-0.1	100	0.00
34 TMP Bromodichloromethane	1.000	0.910	9.0	100	0.00
35 S Toluene-d8	10.000	9.995	0.1	100	0.00
36 TMP Dibromomethane	1.000	0.956	4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	5.000	5.267	-5.3	100	0.00
38 TMP cis-1,3-Dichloropropene	1.000	0.906	9.4	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	1.000	1.021	-2.1	100	0.00
41 TMP trans-1,3-Dichloropropene	1.000	1.116	-11.6	100	0.00
42 TMP 1,1,2-Trichloroethane	1.000	1.038	-3.8	100	0.00
43 TMP 2-Hexanone	5.000	5.197	-3.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-2SK  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	1.000	1.072	-7.2	100	0.00
45 TMP Tetrachloroethene	1.000	1.027	-2.7	100	0.00
46 TMP Dibromochloromethane	1.000	0.967	3.3	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	1.000	1.029	-2.9	100	0.00
48 TMP Chlorobenzene	1.000	1.020	-2.0	100	0.00
49 TMP Ethylbenzene	1.000	1.031	-3.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	1.000	1.031	-3.1	100	0.00
51 TMP m,p-Xylene	2.000	2.075	-3.8	100	0.00
52 TMP o-Xylene	1.000	1.030	-3.0	100	0.00
53 TMP Styrene	1.000	1.055	-5.5	100	0.00
54 TMP Isopropylbenzene	1.000	1.008	-0.8	100	0.00
55 TMP Bromoform	1.000	1.022	-2.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.937	0.6	100	0.00
58 TMP n-Propylbenzene	1.000	1.092	-9.2	100	0.00
59 TMP Bromobenzene	1.000	1.058	-5.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.000	1.011	-1.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	1.000	1.072	-7.2	100	0.00
62 TMP 1,2,3-Trichloropropane	1.000	0.960	4.0	100	0.00
63 TMP 2-Chlorotoluene	1.000	1.009	-0.9	100	0.00
64 TMP 4-Chlorotoluene	1.000	0.999	0.1	100	0.00
65 TMP tert-Butylbenzene	1.000	1.034	-3.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.000	1.005	-0.5	100	0.00
67 TMP sec-Butylbenzene	1.000	1.013	-1.3	100	0.00
68 TMP p-Isopropyltoluene	1.000	1.011	-1.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.000	1.013	-1.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.000	1.068	-6.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.000	1.033	-3.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	1.000	0.994	0.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	1.000	0.997	0.3	100	0.00
74 TMP Hexachlorobutadiene	1.000	0.921	7.9	100	0.00
75 TMP Naphthalene	1.000	1.347	-34.7#	100	0.00
76 TMP 1,2,3-Trichlorobenzene	1.000	0.902	9.8	100	0.00

12/15 DM

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.259	1.9	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.734	-6.7	100	0.00
5 TMP Chloromethane	0.883	0.960	-8.7	100	0.00
6 TMP Vinyl chloride	0.732	0.710	3.0	100	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP Chloroethane	0.336	0.343	-2.1	87	0.00
9 TMP Trichlorofluoromethane	0.870	0.797	8.4	95	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.042	-13.5	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.240	0.0	100	0.00
13 TMP Hexane	0.434	0.474	-9.2	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.051	-10.9	100	0.02
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.743	-1.4	99	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.265	2.6	74	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.923	1.0	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.517	-2.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.315	-6.4	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.323	-2.2	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.293	-2.4	100	0.00
23 TMP Chloroform	0.477	0.489	-2.5	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.198	-8.2	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.680	2.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.424	-2.7	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.446	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.377	-4.1	100	0.00
29 TMP Carbon tetrachloride	0.367	0.365	0.5	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	100	0.00
31 TMP Benzene	0.999	1.033	-3.4	100	0.00
32 TMP Trichloroethene	0.316	0.319	-0.9	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.297	-0.3	100	0.00
34 TMP Bromodichloromethane	0.357	0.325	9.0	100	0.00
35 S Toluene-d8	0.960	0.960	0.0	100	0.00
36 TMP Dibromomethane	0.169	0.161	4.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.055	-5.8	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.388	9.6	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.876	-2.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.540	-11.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.274	-3.8	100	0.00
43 TMP 2-Hexanone	0.335	0.349	-4.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.504	-7.2	100	0.00
45 TMP Tetrachloroethene	0.342	0.351	-2.6	100	0.00
46 TMP Dibromochloromethane	0.354	0.342	3.4	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.337	-3.1	100	0.00
48 TMP Chlorobenzene	0.925	0.944	-2.1	100	0.00
49 TMP Ethylbenzene	1.611	1.661	-3.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.343	-3.0	100	0.00
51 TMP m,p-Xylene	0.607	0.630	-3.8	100	0.00
52 TMP o-Xylene	0.595	0.613	-3.0	100	0.00
53 TMP Styrene	0.973	1.026	-5.4	100	0.00
54 TMP Isopropylbenzene	1.564	1.577	-0.8	100	0.00
55 TMP Bromoform	0.252	0.258	-2.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.839	0.6	100	0.00
58 TMP n-Propylbenzene	3.281	3.582	-9.2	100	0.00
59 TMP Bromobenzene	0.770	0.815	-5.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.471	-1.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.748	-7.2	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.562	4.1	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.958	-0.9	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.279	0.1	100	0.00
65 TMP tert-Butylbenzene	2.141	2.214	-3.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.488	-0.5	100	0.00
67 TMP sec-Butylbenzene	3.103	3.143	-1.3	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.701	-1.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.453	-1.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.560	-6.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.426	-3.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.154	0.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.977	0.3	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.499	7.9	100	0.00
75 TMP Naphthalene	2.597	3.498	-34.7#	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.816	9.7	100	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0



Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	48931	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38342	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	20582	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12654	9.801	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.00%	
30) 1,2-Dichloroethane-d4	4.36	102	2699	9.143	ppb	0.00	
Spiked Amount	10.000	Range	79 - 128	Recovery	=	91.40%	
35) Toluene-d8	5.98	98	46954	9.995	ppb	0.00	
Spiked Amount	10.000	Range	84 - 121	Recovery	=	99.90%	
57) 4-Bromofluorobenzene	8.38	95	17267	9.937	ppb	0.00	
Spiked Amount	10.000	Range	84 - 116	Recovery	=	99.40%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	3590	1.066	ppb		87
5) Chloromethane	1.23	50	4697	1.087	ppb		96
6] Vinyl chloride	1.30	62	3475	0.971	ppb		94
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.60	64	1676m	1.018	ppb		
9) Trichlorofluoromethane	1.80	101	3899	0.916	ppb		76
10) 2-Propanol	2.40	45	331	No Calib			
11) Acetone	2.27	58	1025	5.627	ppb		98
12] 1,1-Dichloroethene	2.19	96	1172	0.996	ppb		92
13) Hexane	3.05	57	2319	1.093	ppb		94
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.75	59	1251	5.536	ppb		98
16] Methyl t-butyl ether (...)	2.84	73	3634m	1.013	ppb		
17] trans-1,2-Dichloroethene	2.83	96	1299m	0.975	ppb		
18) Diisopropyl ether (DIPE)	3.25	45	4515	0.990	ppb		98
19] 1,1-Dichloroethane	3.18	63	2531	1.026	ppb		96
20) Ethyl t-butyl ether (E...)	3.55	87	1543	1.065	ppb		84
21) 2,2-Dichloropropane	3.67	77	1580	1.022	ppb		98
22] cis-1,2-Dichloroethene	3.67	96	1435	1.024	ppb		97
23) Chloroform	3.94	83	2393	1.025	ppb		93
24) 2-Butanone (MEK)	3.71	43	4835	5.403	ppb		98
25) t-Amyl methyl ether (T...)	4.50	73	3327	0.980	ppb		96
26] 1,2-Dichloroethane (EDC)	4.42	62	2075	1.026	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	2183	1.014	ppb		97
28) 1,1-Dichloropropene	4.22	75	1846	1.042	ppb		86
29) Carbon tetrachloride	4.21	117	1786	0.994	ppb		89
31] Benzene	4.39	78	5055	1.034	ppb		98
32] Trichloroethene	4.93	95	1563	1.012	ppb		97
33) 1,2-Dichloropropane	5.14	63	1451	1.001	ppb	#	91
34) Bromodichloromethane	5.37	83	1591	0.910	ppb		90
36) Dibromomethane	5.22	93	790	0.956	ppb		81

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

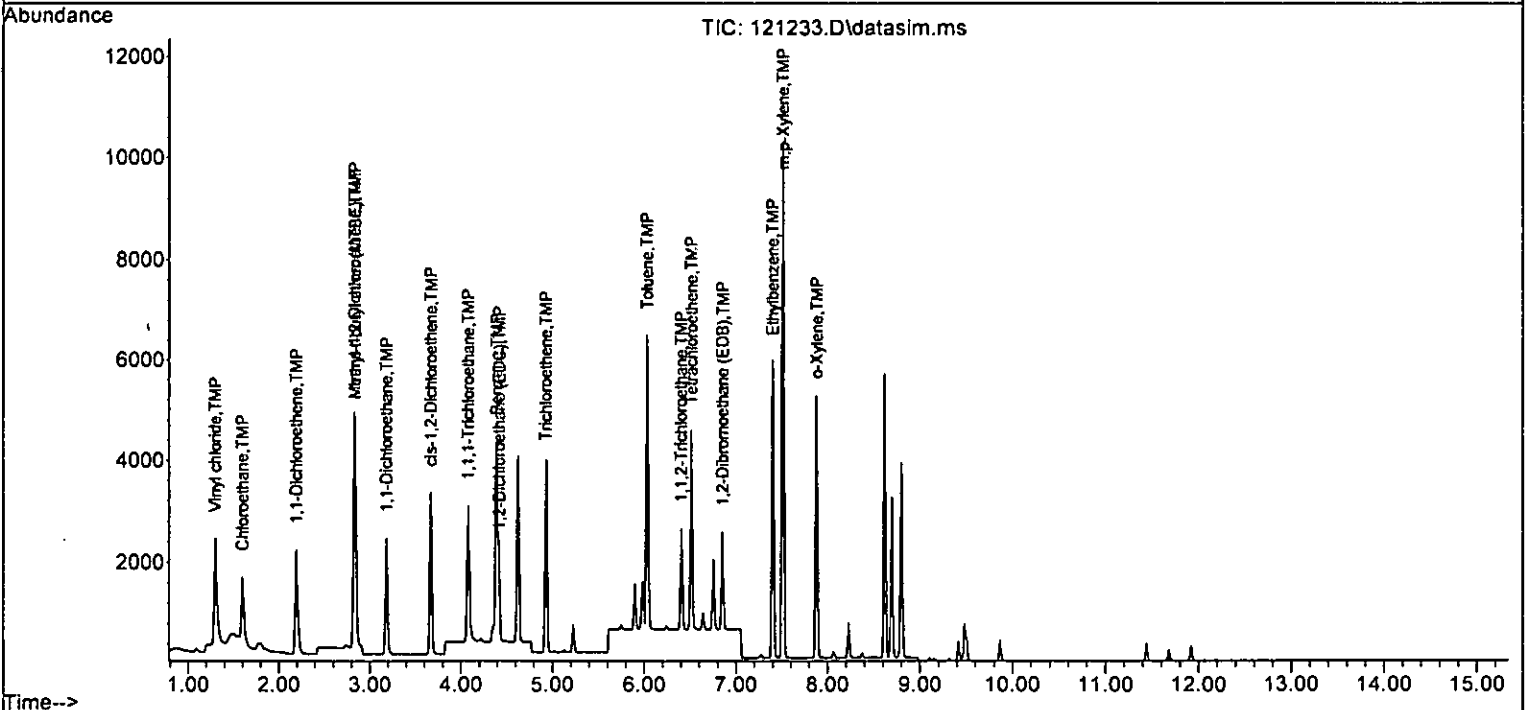
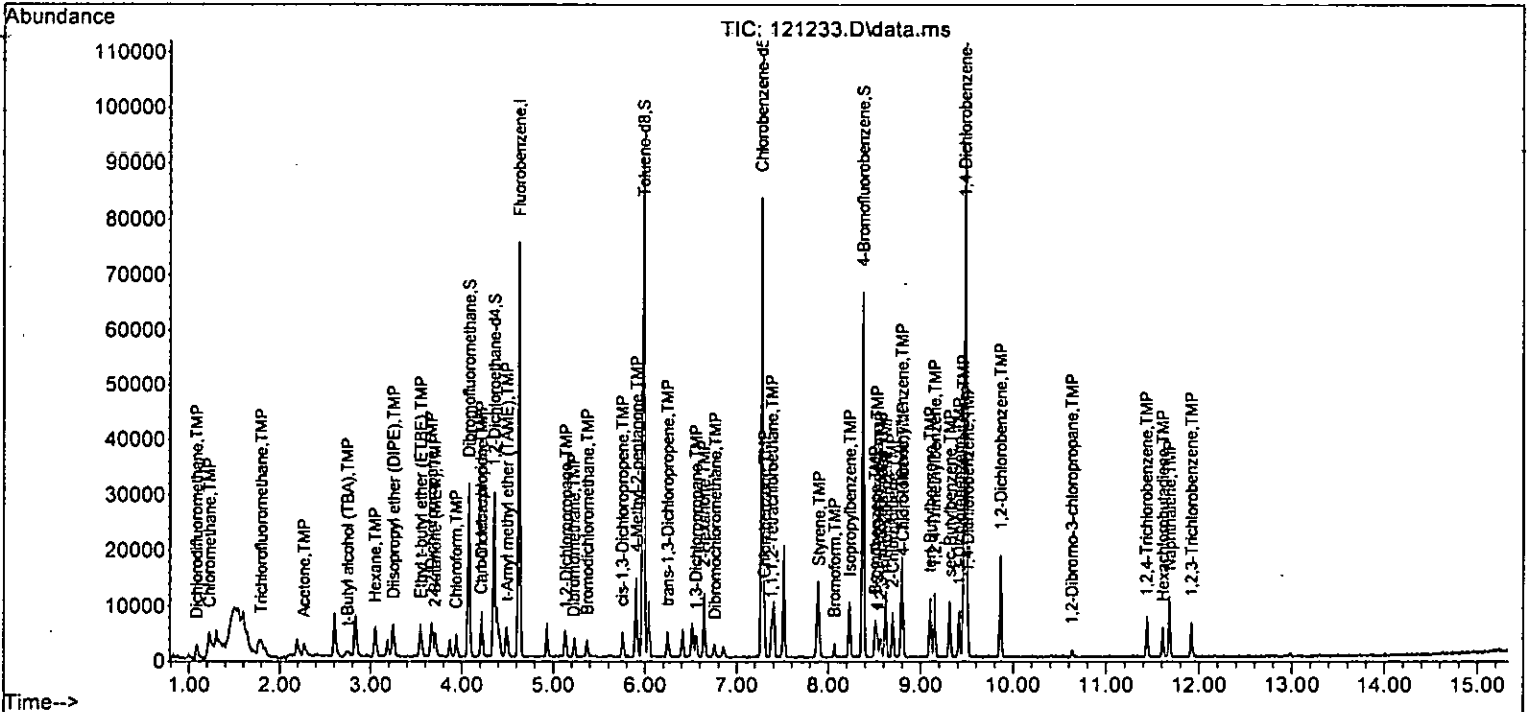
Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	1345	5.267	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	1900	0.906	ppb	93
40] Toluene	6.03	92	3357	1.021	ppb	89
41) trans-1,3-Dichloropropene	6.25	75	2070	1.116	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	1050	1.038	ppb	99
43) 2-Hexanone	6.64	43	6683	5.197	ppb	97
44) 1,3-Dichloropropane	6.55	76	1931	1.072	ppb	99
45] Tetrachloroethene	6.51	164	1347	1.027	ppb	99
46) Dibromochloromethane	6.76	129	1311	0.967	ppb	87
47] 1,2-Dibromoethane (EDB)	6.85	107	1292	1.029	ppb	99
48) Chlorobenzene	7.30	112	3619	1.020	ppb	97
49] Ethylbenzene	7.40	91	6368	1.031	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	1316	1.031	ppb	92
51] m,p-Xylene	7.52	106	4831	2.075	ppb	99
52] o-Xylene	7.88	106	2349	1.030	ppb	99
53) Styrene	7.90	104	3934	1.055	ppb	73
54) Isopropylbenzene	8.23	105	6046	1.008	ppb	98
55) Bromoform	8.07	173	988	1.022	ppb	86
58) n-Propylbenzene	8.63	91	7373	1.092	ppb	98
59) Bromobenzene	8.51	156	1678	1.058	ppb	90
60) 1,3,5-Trimethylbenzene	8.80	105	5085	1.011	ppb	87
61) 1,1,2,2-Tetrachloroethane	8.53	83	1540	1.072	ppb	81
62) 1,2,3-Trichloropropane	8.57	75	1157	0.960	ppb	80
63) 2-Chlorotoluene	8.70	91	4030	1.009	ppb	93
64) 4-Chlorotoluene	8.81	91	4690	0.999	ppb	98
65) tert-Butylbenzene	9.10	119	4557	1.034	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	5120	1.005	ppb	98
67) sec-Butylbenzene	9.32	105	6469	1.013	ppb	99
68) p-Isopropyltoluene	9.46	119	5560	1.011	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	2990	1.013	ppb	94
70) 1,4-Dichlorobenzene	9.51	146	3210	1.068	ppb	95
71) 1,2-Dichlorobenzene	9.86	146	2935	1.033	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.63	75	317	0.994	ppb #	56
73) 1,2,4-Trichlorobenzene	11.44	180	2010	0.997	ppb	91
74) Hexachlorobutadiene	11.61	225	1027	0.921	ppb	93
75) Naphthalene	11.68	128	7199	1.347	ppb	97
76) 1,2,3-Trichlorobenzene	11.92	180	1679	0.902	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

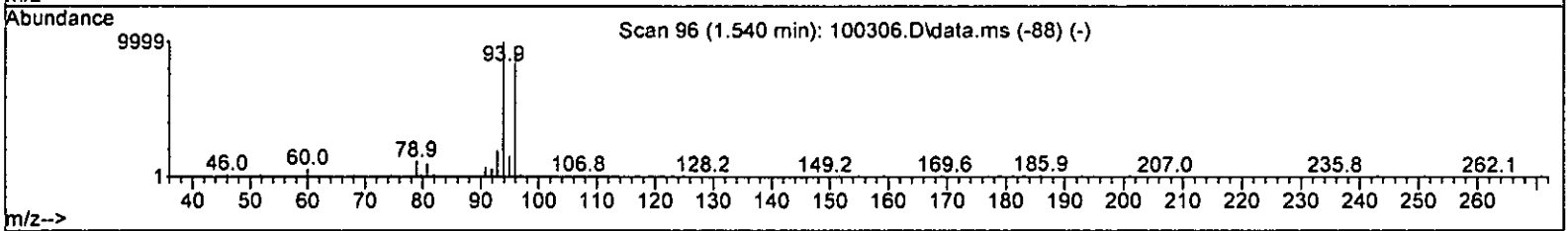
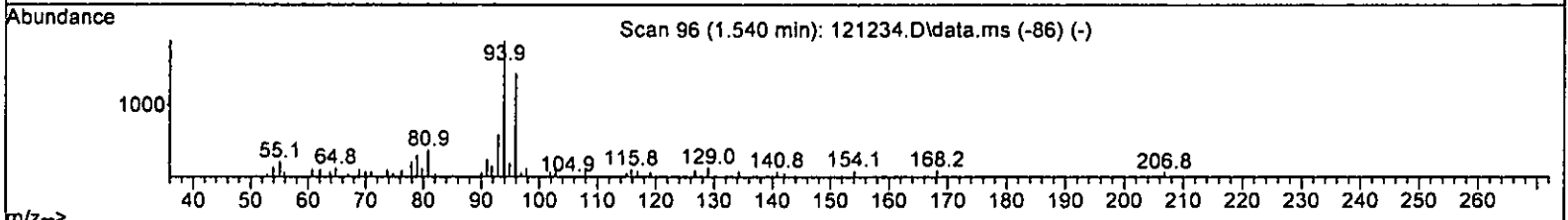
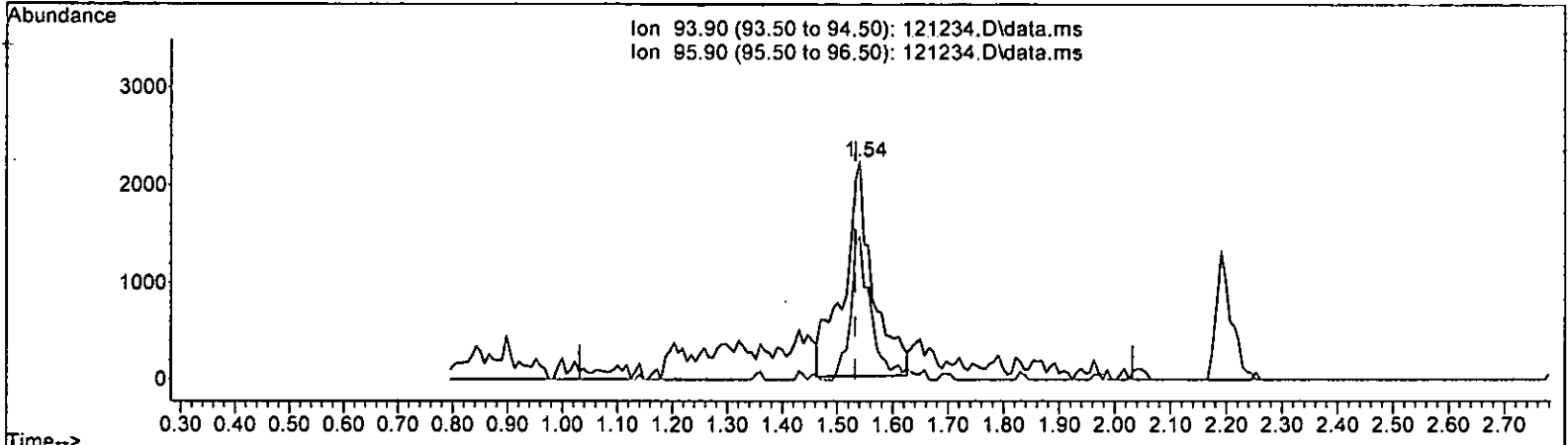
Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

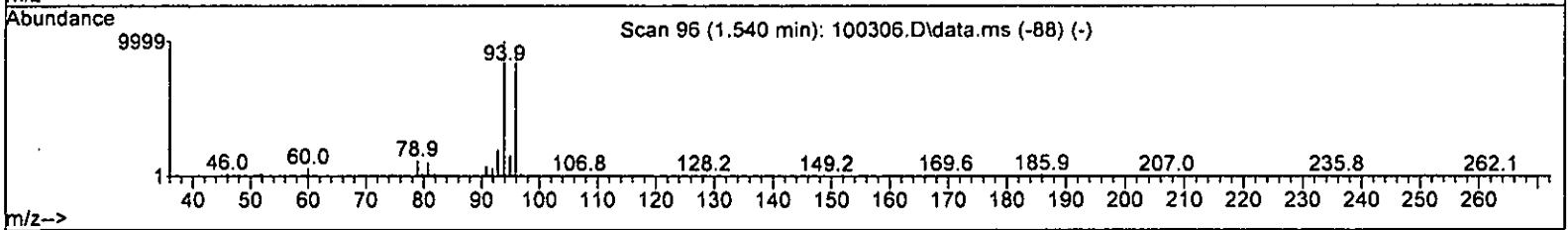
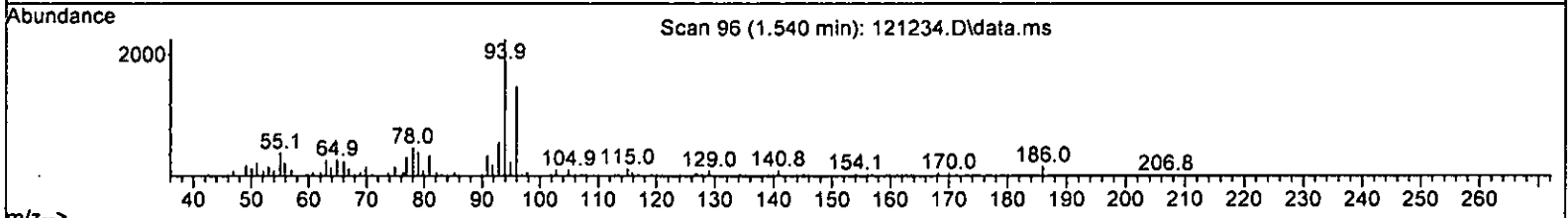
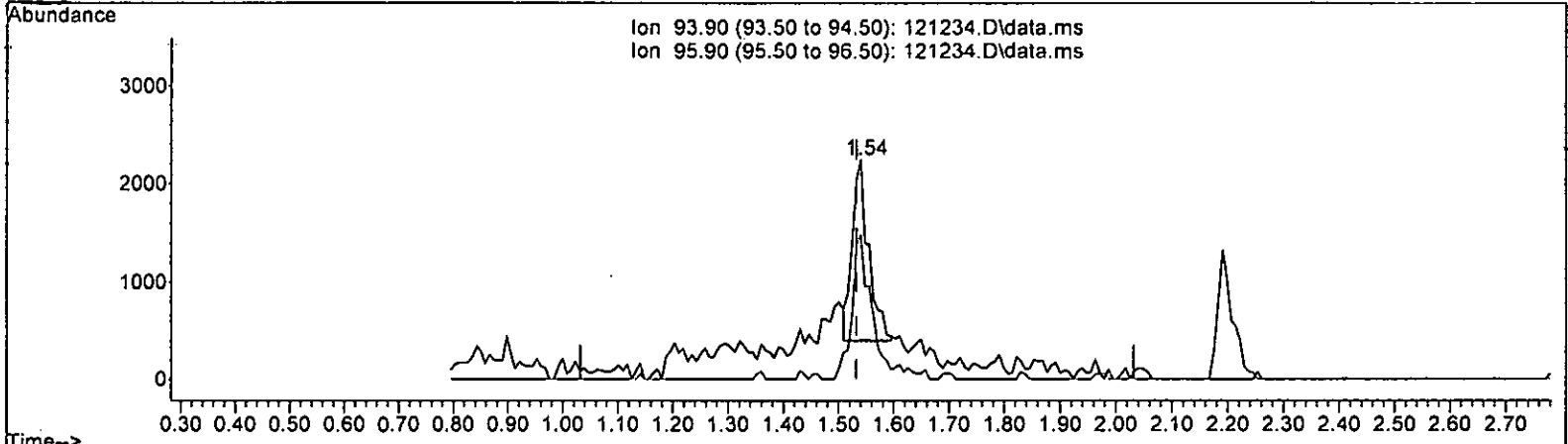
<del>(7) Bromomethane (TMP)</del>		
1.540min (+ 0.008)	4.516 ppb	
response	8121	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	59.20	72.34
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(7) Bromomethane (TMP)

1.540min (+ 0.008) 2.113 ppb m

response 3800

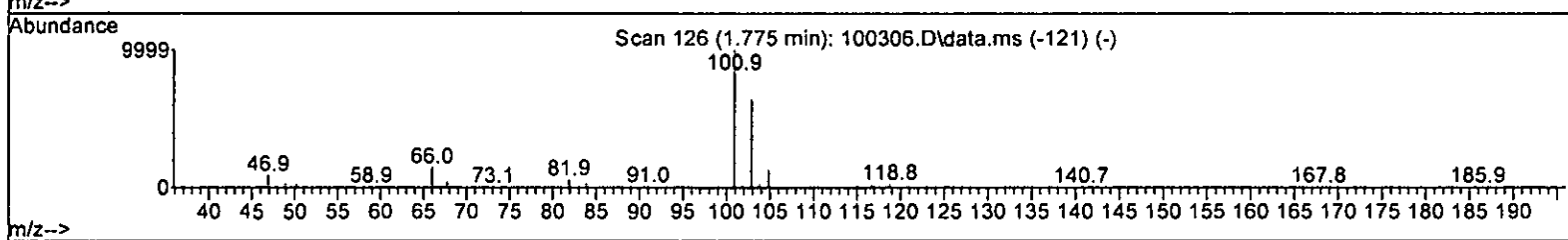
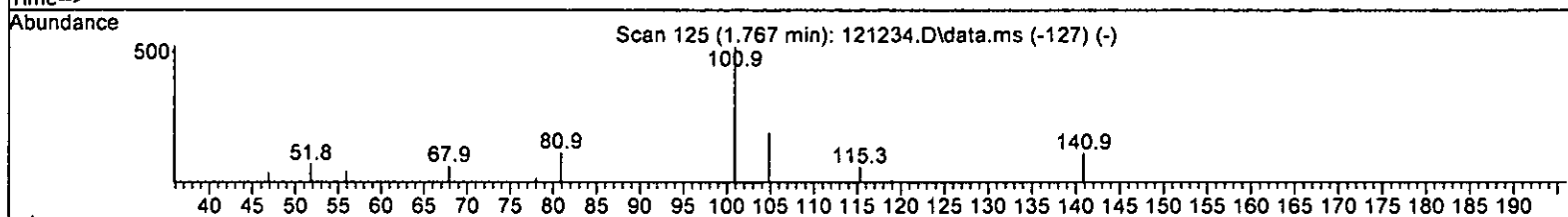
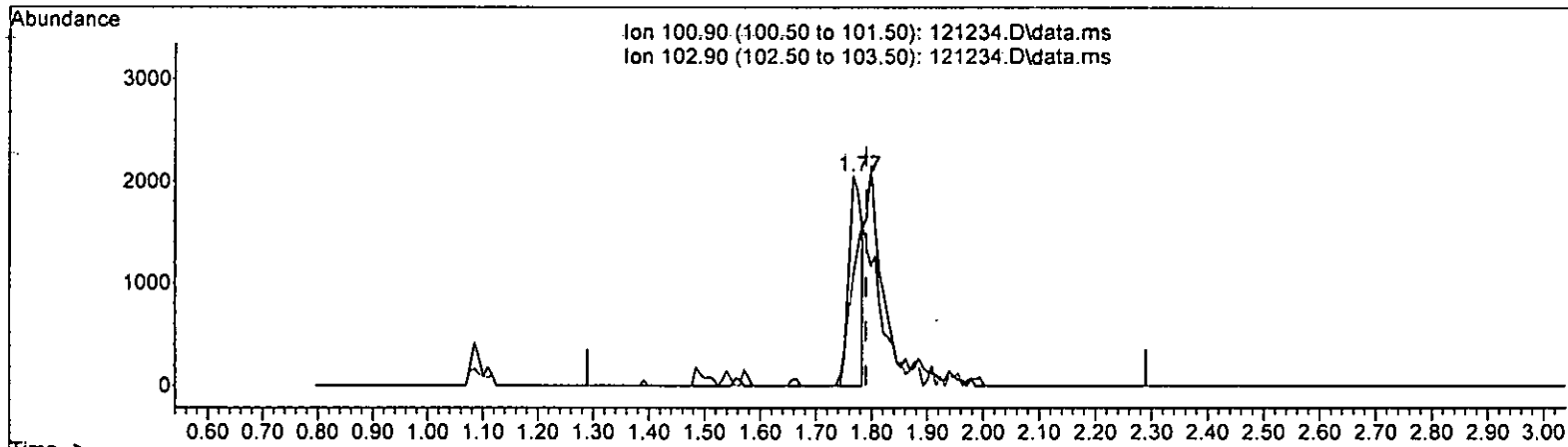
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	65.78
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 JLM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 0.758 ppb

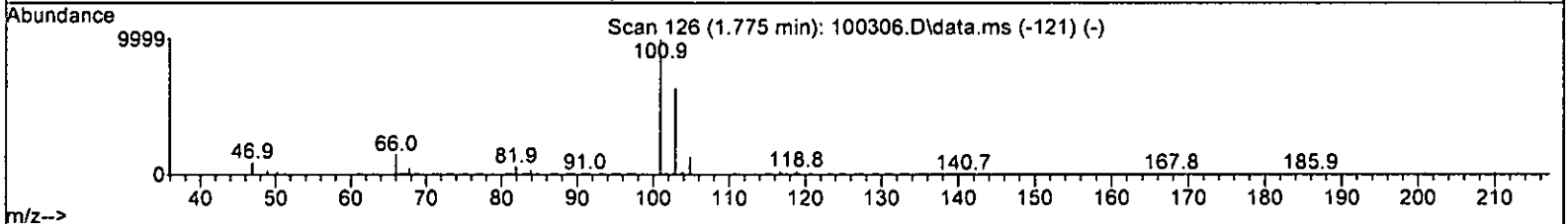
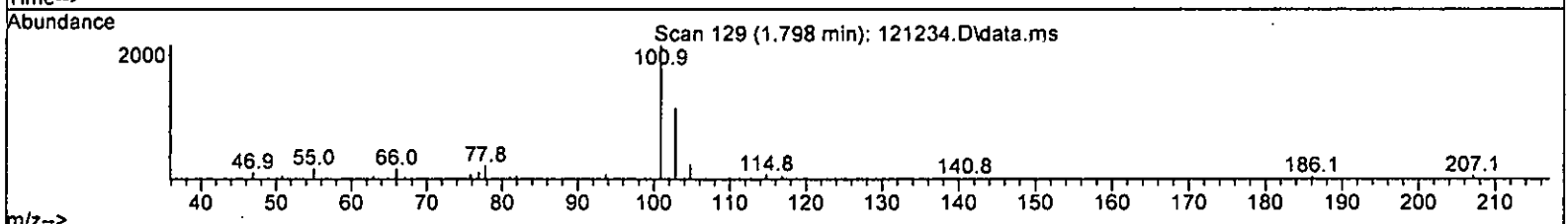
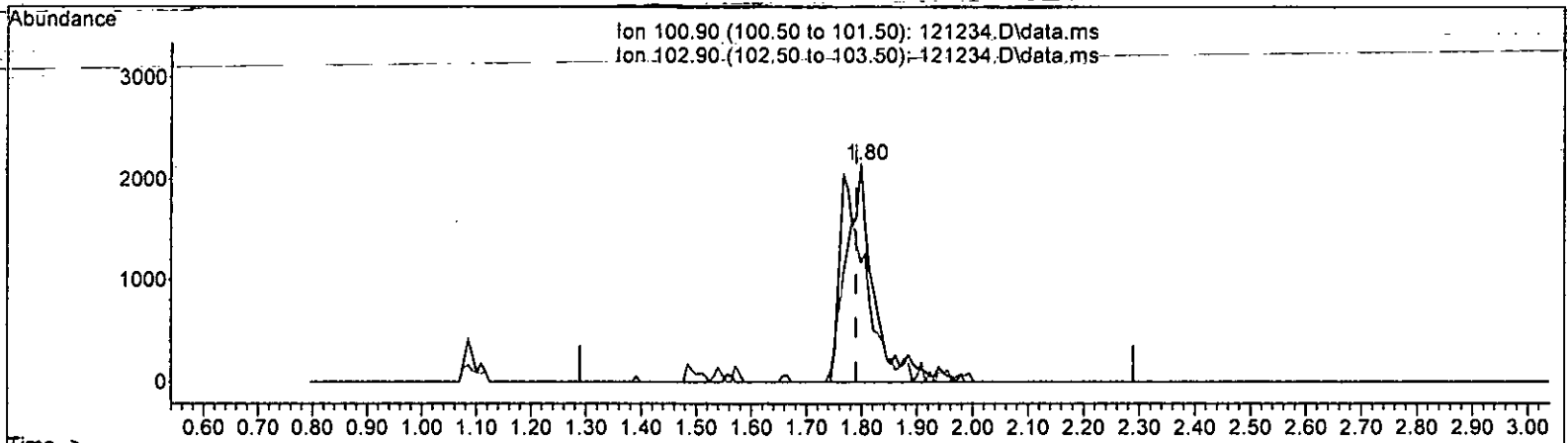
response	3219		
Ion	Exp%	Act%	
100.90	100.00	100.00	
102.90	62.70	51.68	
0.00	0.00	0.00	
0.00	0.00	0.00	

*17.5 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.798min (+ 0.008) 1.945 ppb m

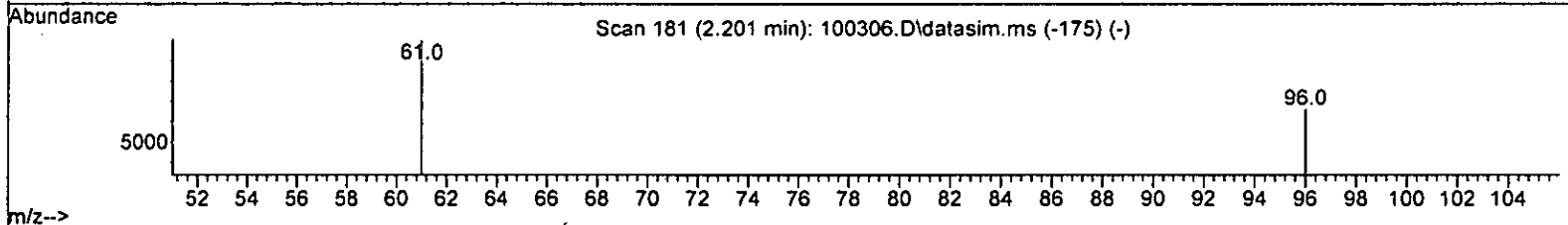
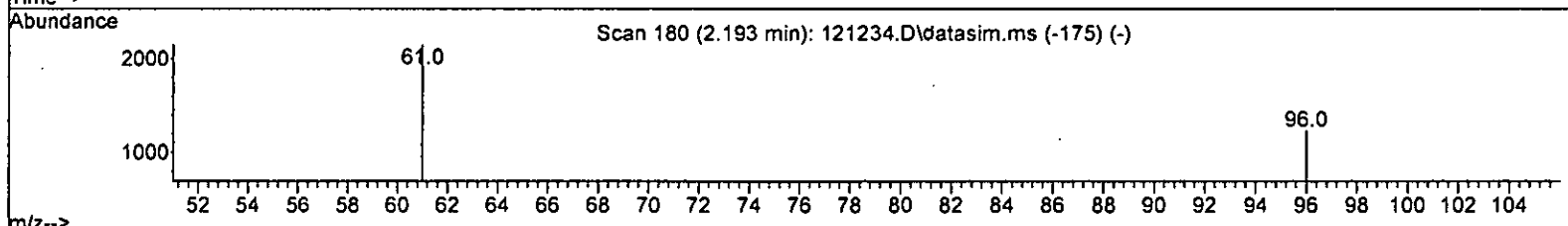
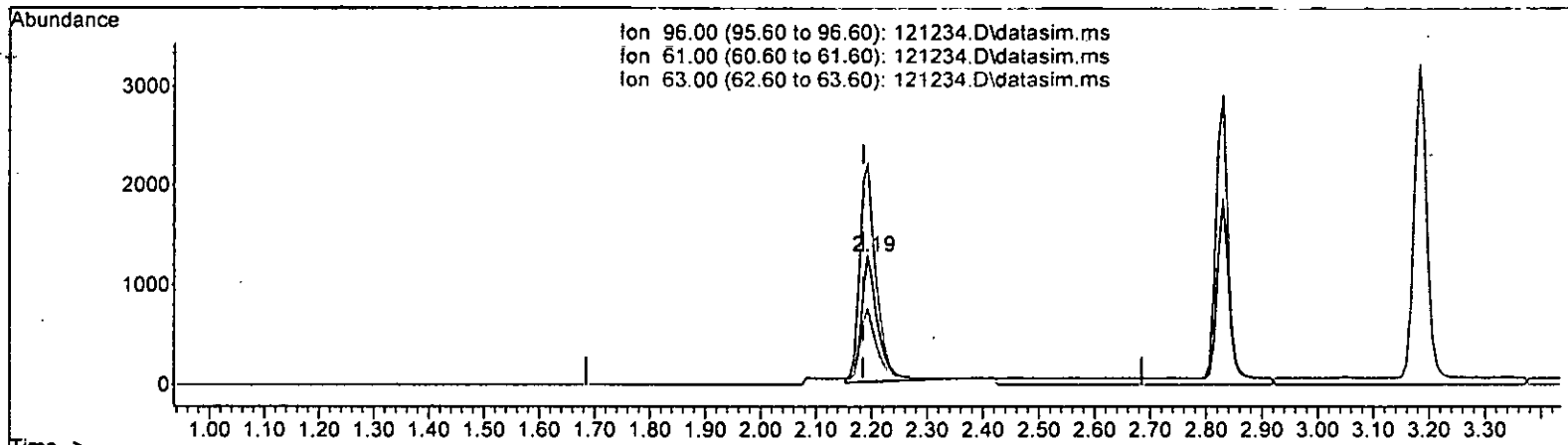
response	8259	
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	62.70	54.14
0.00	0.00	0.00
0.00	0.00	0.00

12/15 PM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.193min (+ 0.008) 2.183 ppb

response 2562

17/15 DM

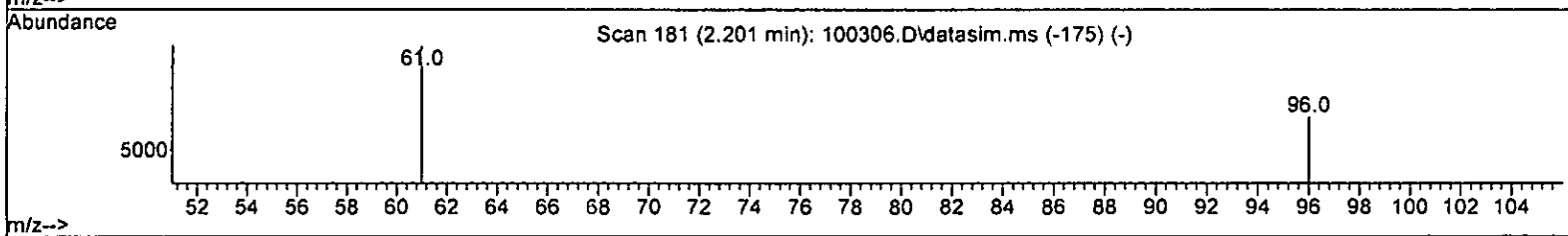
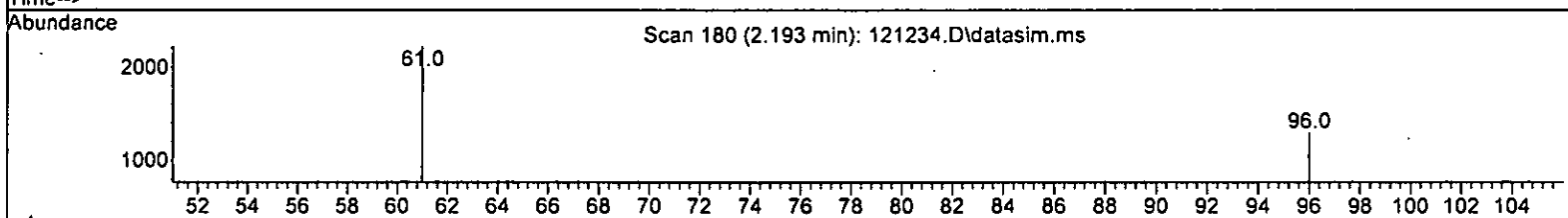
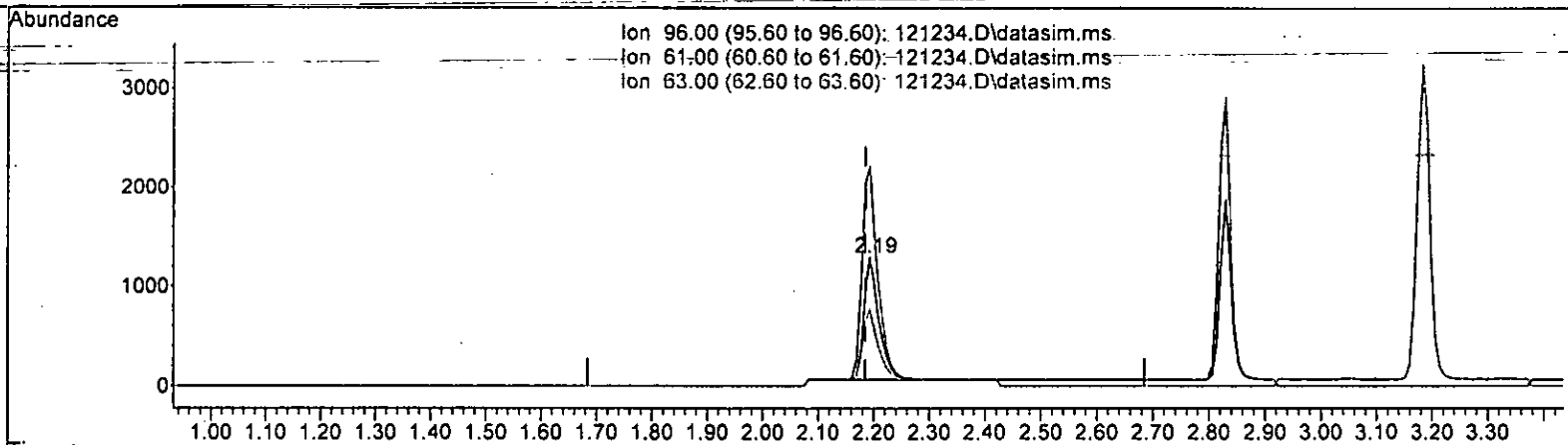
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	160.00	174.86
63.00	53.70	56.71
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.193min (+ 0.008) 1.963 ppb m

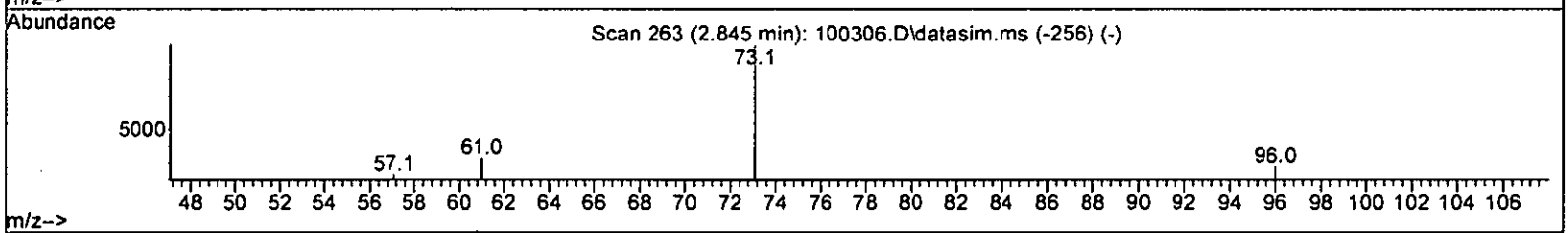
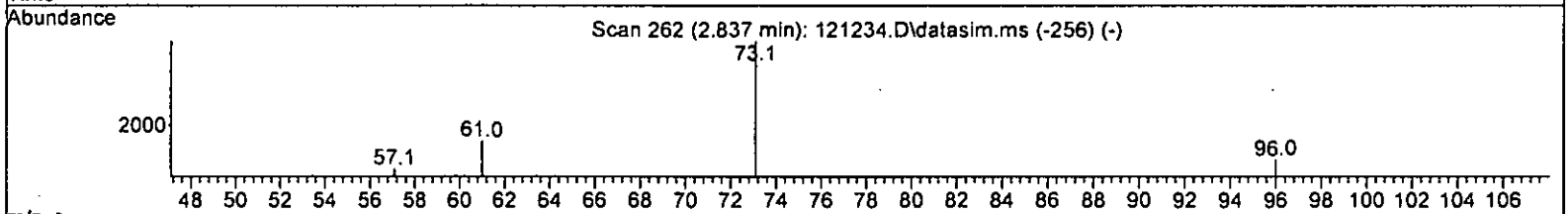
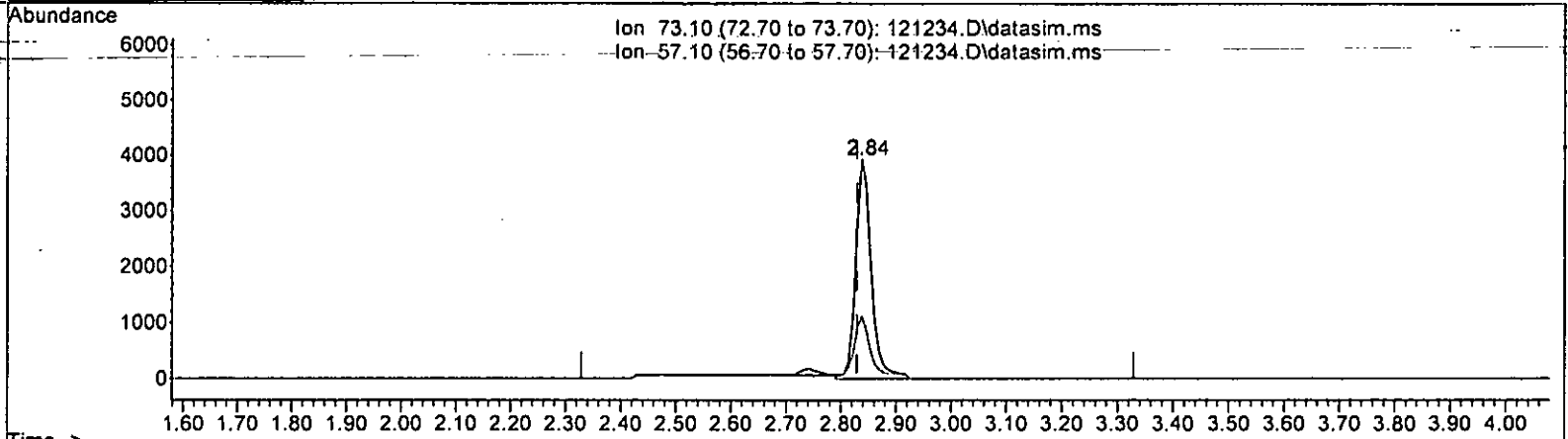
response	2304		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	160.00	171.31	
63.00	53.70	59.16	
0.00	0.00	0.00	

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (+ 0.008) 2.124 ppb

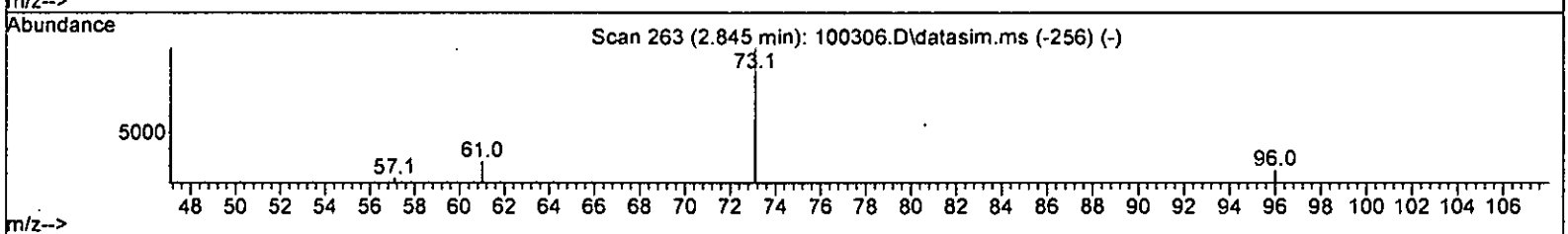
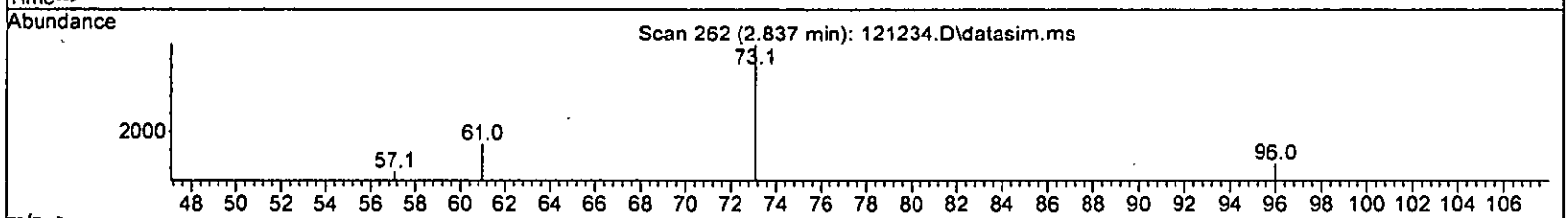
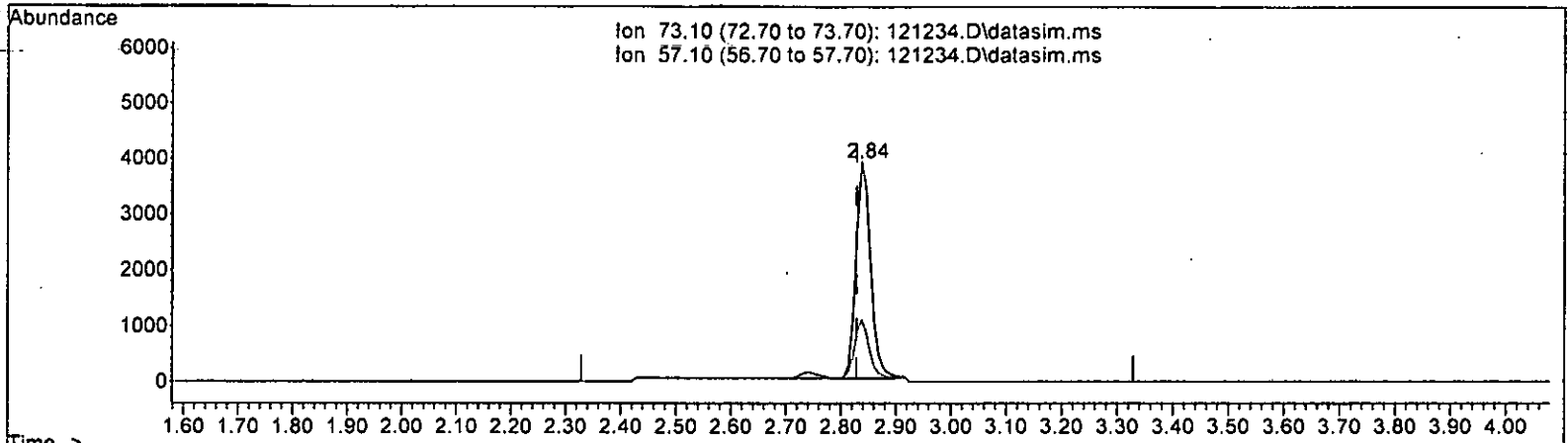
response	7637
Ion	Exp% Act%
73.10	100.00 100.00
57.10	24.80 28.28
0.00	0.00 0.00
0.00	0.00 0.00

12/15 LM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (+ 0.008) 2.008 ppb m

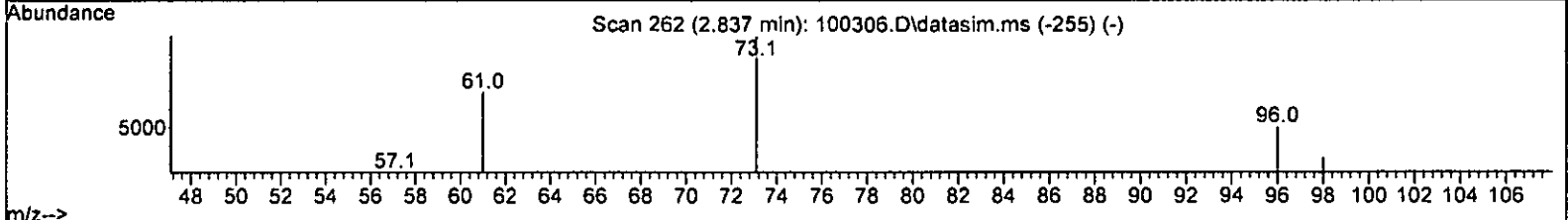
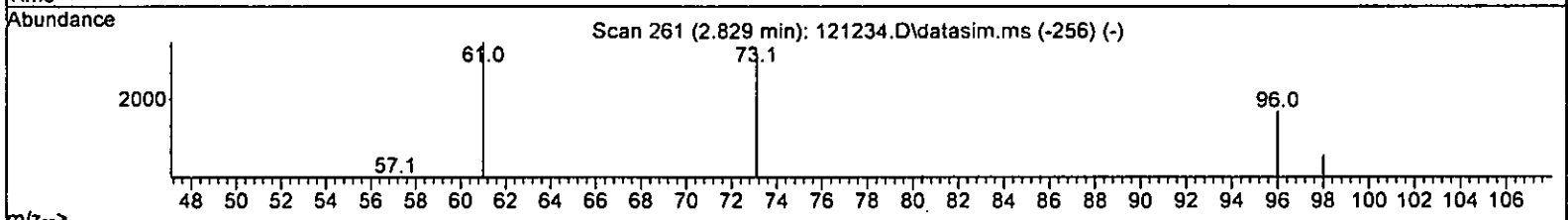
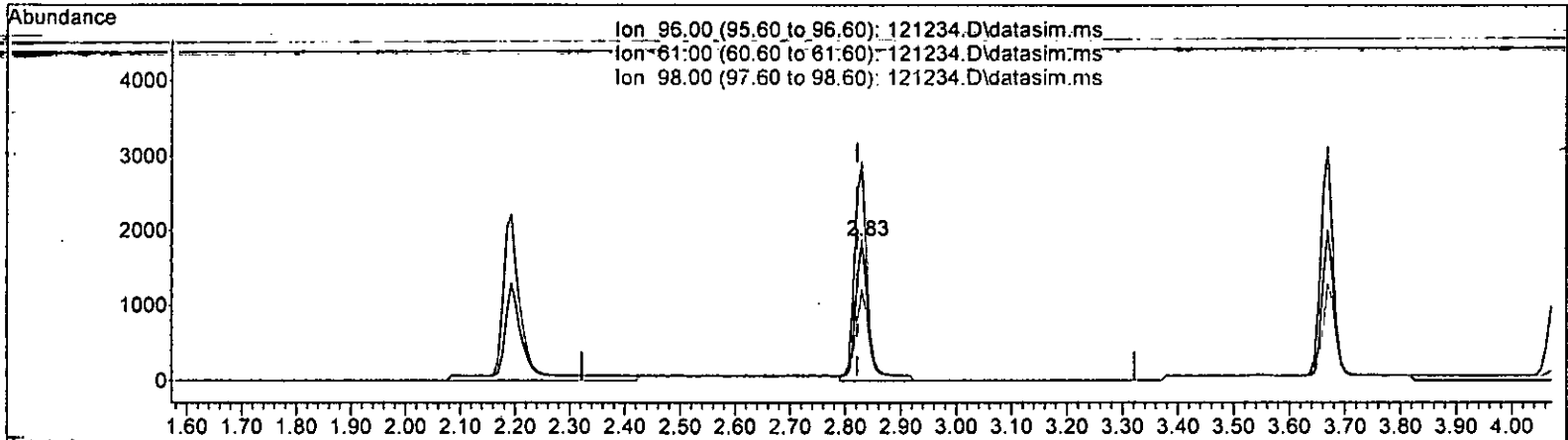
response	7187		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	24.80	28.28	
0.00	0.00	0.00	
0.00	0.00	0.00	

12/15 LM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.829min (+ 0.007) 2.284 ppb

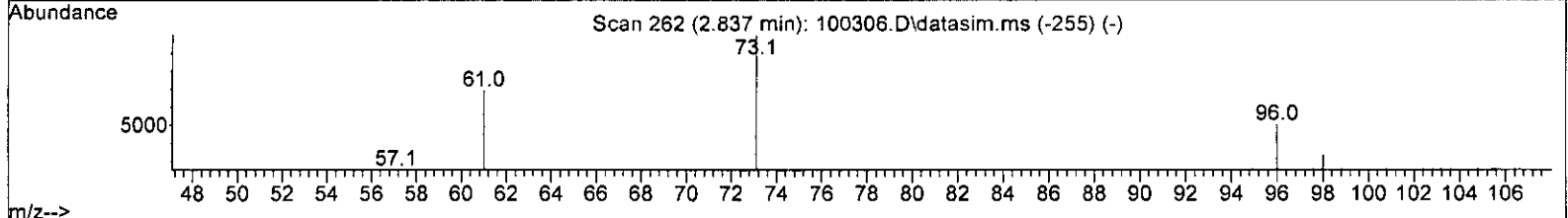
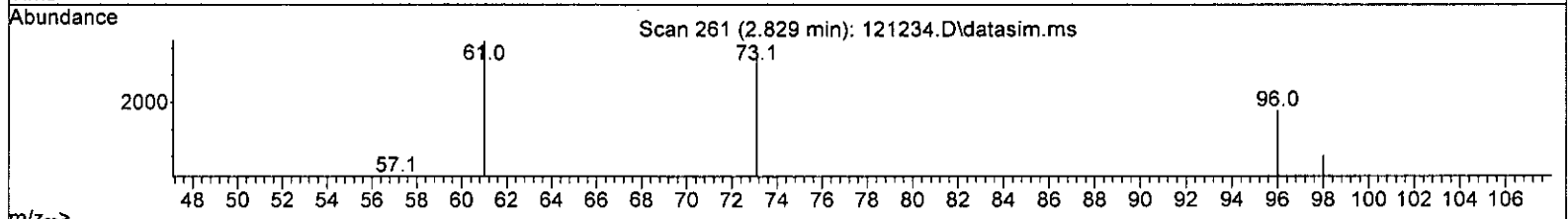
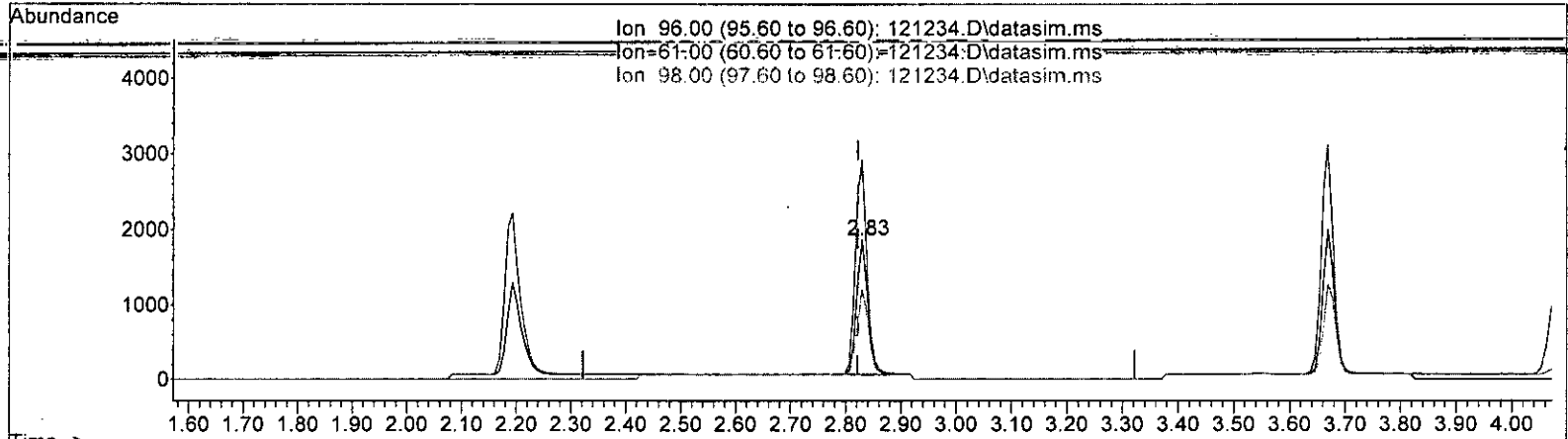
response	3036
Ion	Exp% Act%
96.00	100.00 100.00
61.00	171.80 156.11
98.00	61.00 64.20
0.00	0.00 0.00

*Handwritten note: 12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.829min (+ 0.007) 1.929 ppb m

response	2564		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	171.80	156.11	
98.00	61.00	64.20	
0.00	0.00	0.00	

*12/15 LM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq.Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.02
3 S Dibromofluoromethane	10.000	9.729	2.7	100	0.00
4 TMP Dichlorodifluoromethane	2.000	1.962	1.9	100	0.00
5 TMP Chloromethane	2.000	2.167	-8.3	100	0.00
6 TMP Vinyl chloride	2.000	2.011	-0.6	105	0.00
7 TMP Bromomethane	2.000	2.113	-5.6	103	0.00
8 TMP Chloroethane	2.000	2.061	-3.0	111	0.00
9 TMP Trichlorofluoromethane	2.000	1.945	2.7	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	10.000	10.310	-3.1	100	0.00
12 TMP 1,1-Dichloroethene	2.000	1.963	1.8	90	0.00
13 TMP Hexane	2.000	2.075	-3.8	100	0.00
14 TMP Methylene chloride	2.000	0.000	100.0#	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	10.000	10.330	-3.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	2.000	2.008	-0.4	100	0.00
17 TMP trans-1,2-Dichloroethene	2.000	1.929	3.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	2.000	2.034	-1.7	100	0.00
19 TMP 1,1-Dichloroethane	2.000	2.024	-1.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	2.000	2.030	-1.5	100	0.00
21 TMP 2,2-Dichloropropane	2.000	1.949	2.5	100	0.00
22 TMP cis-1,2-Dichloroethene	2.000	2.015	-0.8	100	0.00
23 TMP Chloroform	2.000	2.041	-2.0	100	0.00
24 TMP 2-Butanone (MEK)	10.000	10.076	-0.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	2.000	2.053	-2.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	2.000	1.981	0.9	100	0.00
27 TMP 1,1,1-Trichloroethane	2.000	2.027	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	2.000	2.118	-5.9	100	0.00
29 TMP Carbon tetrachloride	2.000	2.026	-1.3	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.992	0.1	100	0.00
31 TMP Benzene	2.000	2.036	-1.8	100	0.00
32 TMP Trichloroethene	2.000	1.995	0.2	100	0.00
33 TMP 1,2-Dichloropropane	2.000	2.066	-3.3	100	0.00
34 TMP Bromodichloromethane	2.000	1.982	0.9	100	0.00
35 S Toluene-d8	10.000	9.870	1.3	100	0.00
36 TMP Dibromomethane	2.000	2.115	-5.8	100	0.00
37 TMP 4-Methyl-2-pentanone	10.000	11.014	-10.1	100	0.00
38 TMP cis-1,3-Dichloropropene	2.000	1.982	0.9	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	2.000	1.968	1.6	100	0.00
41 TMP trans-1,3-Dichloropropene	2.000	2.044	-2.2	100	0.00
42 TMP 1,1,2-Trichloroethane	2.000	1.998	0.1	100	0.00
43 TMP 2-Hexanone	10.000	10.669	-6.7	100	0.00

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	2.000	2.080	-4.0	100	0.00
45 TMP Tetrachloroethene	2.000	1.982	0.9	100	0.00
46 TMP Dibromochloromethane	2.000	2.130	-6.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	2.000	1.984	0.8	100	0.00
48 TMP Chlorobenzene	2.000	1.953	2.3	100	0.00
49 TMP Ethylbenzene	2.000	2.026	-1.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	2.000	1.972	1.4	100	0.00
51 TMP m,p-Xylene	4.000	4.067	-1.7	100	0.00
52 TMP o-Xylene	2.000	2.028	-1.4	100	0.00
53 TMP Styrene	2.000	2.024	-1.2	100	0.00
54 TMP Isopropylbenzene	2.000	2.004	-0.2	100	0.00
55 TMP Bromoform	2.000	1.886	5.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.975	0.3	100	0.00
58 TMP n-Propylbenzene	2.000	1.984	0.8	100	0.00
59 TMP Bromobenzene	2.000	1.942	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.000	1.958	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	2.000	2.054	-2.7	100	0.00
62 TMP 1,2,3-Trichloropropane	2.000	1.904	4.8	100	0.00
63 TMP 2-Chlorotoluene	2.000	2.057	-2.8	100	0.00
64 TMP 4-Chlorotoluene	2.000	1.959	2.0	100	0.00
65 TMP tert-Butylbenzene	2.000	1.959	2.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.000	1.897	5.1	100	0.00
67 TMP sec-Butylbenzene	2.000	1.981	0.9	100	0.00
68 TMP p-Isopropyltoluene	2.000	1.984	0.8	100	0.00
69 TMP 1,3-Dichlorobenzene	2.000	2.058	-2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	2.000	1.990	0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	2.000	1.973	1.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	2.000	2.042	-2.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	2.000	1.910	4.5	100	0.00
74 TMP Hexachlorobutadiene	2.000	1.874	6.3	100	0.00
75 TMP Naphthalene	2.000	2.054	-2.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	2.000	1.863	6.9	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.02
3 S Dibromofluoromethane	0.264	0.257	2.7	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.675	1.9	100	0.00
5 TMP Chloromethane	0.883	0.956	-8.3	100	0.00
6 TMP Vinyl chloride	0.732	0.736	-0.5	105	0.00
7 TMP Bromomethane	0.368	0.389	-5.7	103	0.00
8 TMP Chloroethane	0.336	0.347	-3.3	111	0.00
9 TMP Trichlorofluoromethane	0.870	0.846	2.8	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.038	-2.7	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.236	1.7	90	0.00
13 TMP Hexane	0.434	0.450	-3.7	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.048	-4.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.736	-0.4	100	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.263	3.3	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.948	-1.7	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.510	-1.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.300	-1.4	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.308	2.5	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.288	-0.7	100	0.00
23 TMP Chloroform	0.477	0.487	-2.1	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.184	-0.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.712	-2.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.409	1.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.446	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.384	-6.1	100	0.00
29 TMP Carbon tetrachloride	0.367	0.372	-1.4	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	0.999	1.017	-1.8	100	0.00
32 TMP Trichloroethene	0.316	0.315	0.3	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.306	-3.4	100	0.00
34 TMP Bromodichloromethane	0.357	0.354	0.8	100	0.00
35 S Toluene-d8	0.960	0.948	1.3	100	0.00
36 TMP Dibromomethane	0.169	0.179	-5.9	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.057	-9.6	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.425	0.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.844	1.6	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.494	-2.1	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.263	0.4	100	0.00
43 TMP 2-Hexanone	0.335	0.358	-6.9	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.488	-3.8	100	0.00
45 TMP Tetrachloroethene	0.342	0.339	0.9	100	0.00
46 TMP Dibromochloromethane	0.354	0.377	-6.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.325	0.6	100	0.00
48 TMP Chlorobenzene	0.925	0.903	2.4	100	0.00
49 TMP Ethylbenzene	1.611	1.632	-1.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.328	1.5	100	0.00
51 TMP m,p-Xylene	0.607	0.618	-1.8	100	0.00
52 TMP o-Xylene	0.595	0.603	-1.3	100	0.00
53 TMP Styrene	0.973	0.985	-1.2	100	0.00
54 TMP Isopropylbenzene	1.564	1.567	-0.2	100	0.00
55 TMP Bromoform	0.252	0.238	5.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.842	0.2	100	0.00
58 TMP n-Propylbenzene	3.281	3.255	0.8	100	0.00
59 TMP Bromobenzene	0.770	0.748	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.392	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.716	-2.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.558	4.8	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.995	-2.8	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.234	2.1	100	0.00
65 TMP tert-Butylbenzene	2.141	2.097	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.348	5.2	100	0.00
67 TMP sec-Butylbenzene	3.103	3.073	1.0	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.651	0.8	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.475	-2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.454	0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.361	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.158	-1.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.936	4.5	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.507	6.5	100	0.00
75 TMP Naphthalene	2.597	2.667	-2.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.842	6.9	100	0.00

(#) = Out of Range

SPCC's out = 2 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	48822	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38734	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21530	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	12533	9.729	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	97.30%		
30) 1,2-Dichloroethane-d4	4.36	102	2943	9.992	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	99.90%		
35) Toluene-d8	5.98	98	46265	9.870	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	98.70%		
57) 4-Bromofluorobenzene	8.38	95	18132	9.975	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	99.80%		
<b>Target Compounds</b>							
2) Ethanol	1.88	45	58	No Calib			Qvalue
4) Dichlorodifluoromethane	1.09	85	6595	1.962	ppb		88
5) Chloromethane	1.23	50	9338	2.167	ppb		93
6] Vinyl chloride	1.30	62	7184	2.011	ppb		92
7) Bromomethane	1.54	94	3800m	2.113	ppb		
8] Chloroethane	1.60	64	3386	2.061	ppb		98
9) Trichlorofluoromethane	1.80	101	8259m	1.945	ppb		
10) 2-Propanol	2.41	45	290	No Calib			
11) Acetone	2.26	58	1874	10.310	ppb		96
12] 1,1-Dichloroethene	2.19	96	2304m	1.963	ppb		
13) Hexane	3.05	57	4393	2.075	ppb		93
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.74	59	2329	10.330	ppb		97
16] Methyl t-butyl ether (...)	2.84	73	7187m	2.008	ppb		
17] trans-1,2-Dichloroethene	2.83	96	2564m	1.929	ppb		
18) Diisopropyl ether (DIPE)	3.25	45	9256	2.034	ppb		94
19] 1,1-Dichloroethane	3.18	63	4983	2.024	ppb		95
20) Ethyl t-butyl ether (E...)	3.55	87	2934	2.030	ppb	#	79
21) 2,2-Dichloropropane	3.67	77	3007	1.949	ppb		92
22] cis-1,2-Dichloroethene	3.67	96	2817	2.015	ppb		97
23) Chloroform	3.95	83	4754	2.041	ppb		97
24) 2-Butanone (MEK)	3.71	43	8997	10.076	ppb		98
25) t-Amyl methyl ether (T...)	4.50	73	6950	2.053	ppb		96
26] 1,2-Dichloroethane (EDC)	4.42	62	3998	1.981	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	4357	2.027	ppb		98
28) 1,1-Dichloropropene	4.22	75	3746	2.118	ppb		94
29) Carbon tetrachloride	4.21	117	3631	2.026	ppb		91
31] Benzene	4.39	78	9931	2.036	ppb		98
32] Trichloroethene	4.93	95	3074	1.995	ppb		96
33) 1,2-Dichloropropane	5.13	63	2989	2.066	ppb	#	91
34) Bromodichloromethane	5.37	83	3458	1.982	ppb		89
36) Dibromomethane	5.23	93	1744	2.115	ppb		94

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

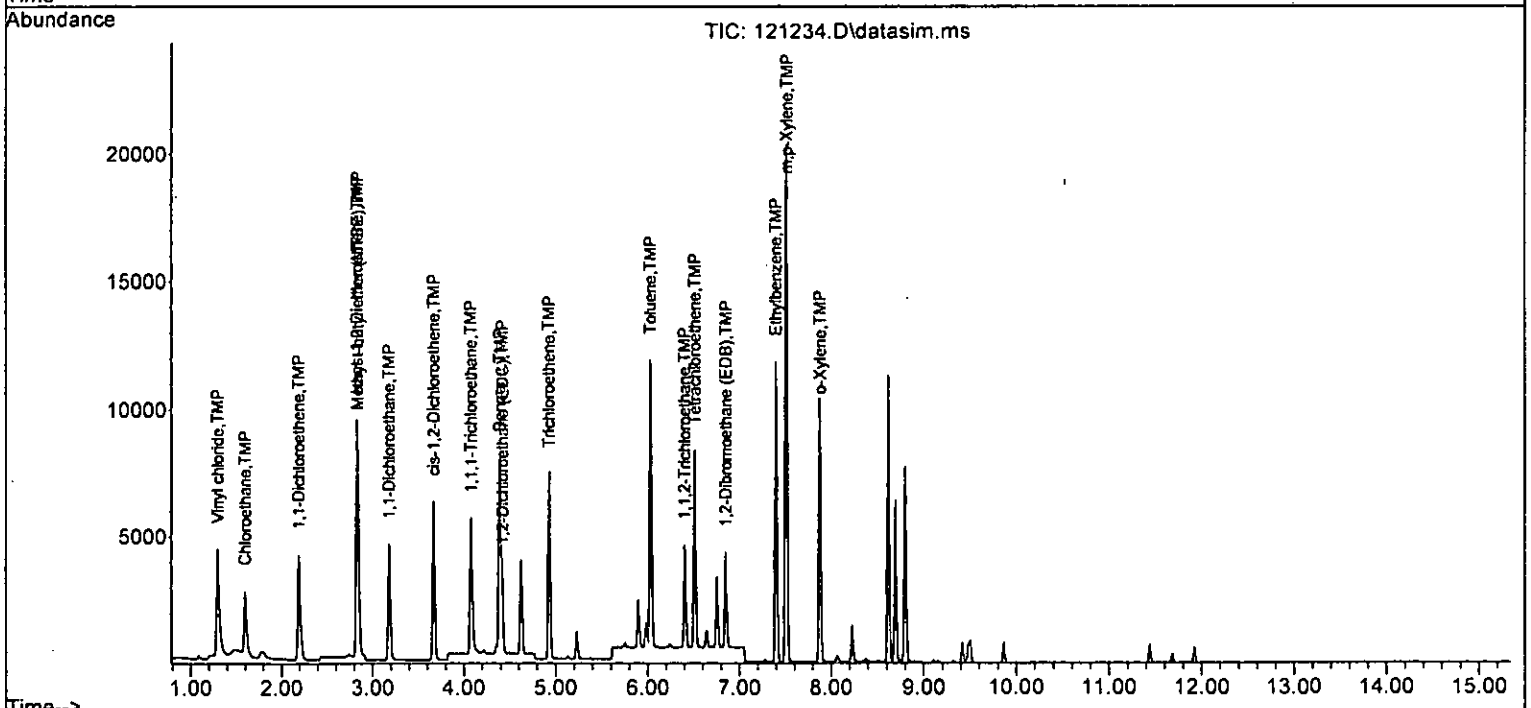
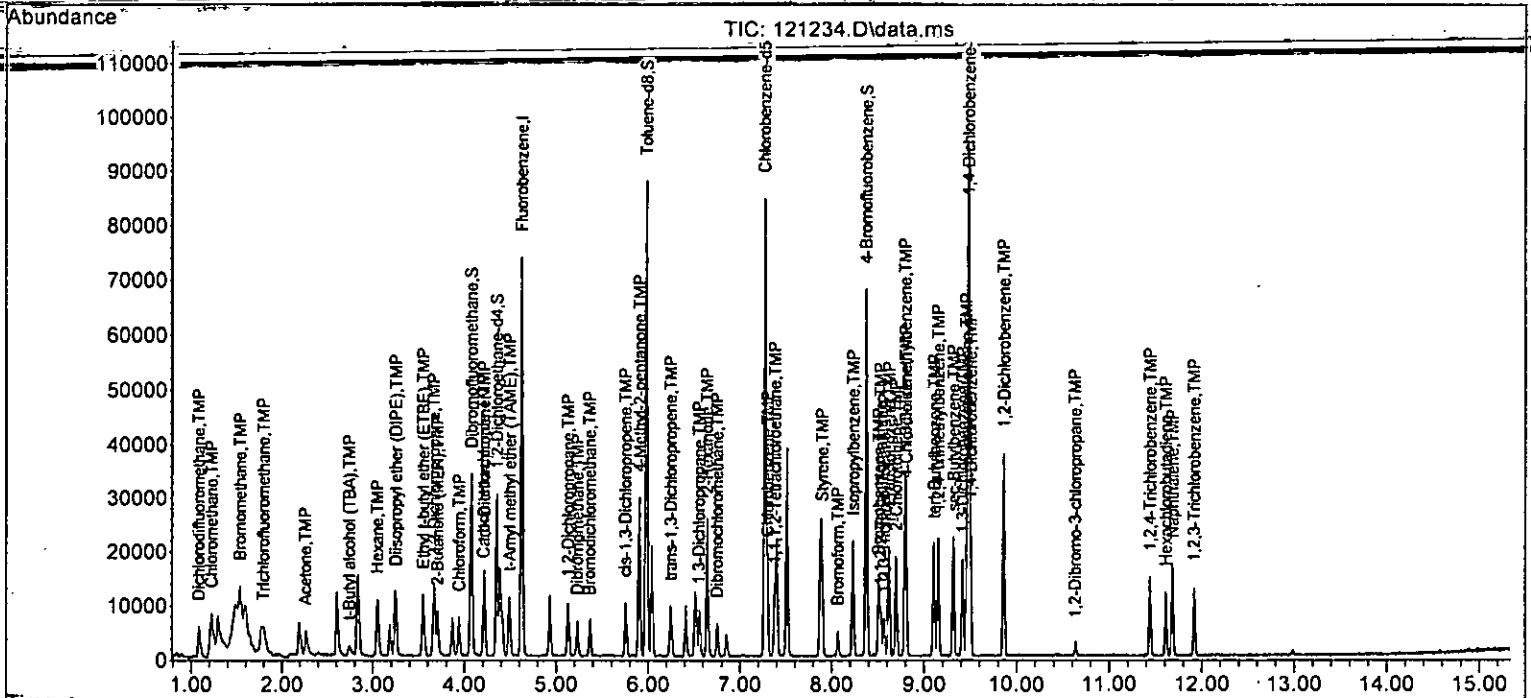
Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	2806	11.014	ppb	83
38) cis-1,3-Dichloropropene	5.75	75	4147	1.982	ppb	97
40] Toluene	6.03	92	6538	1.968	ppb	90
41) trans-1,3-Dichloropropene	6.25	75	3828	2.044	ppb	95
42] 1,1,2-Trichloroethane	6.40	83	2041	1.998	ppb	100
43) 2-Hexanone	6.64	43	13860	10.669	ppb	97
44) 1,3-Dichloropropane	6.55	76	3784	2.080	ppb	100
45] Tetrachloroethene	6.51	164	2627	1.982	ppb	99
46) Dibromochloromethane	6.75	129	2918	2.130	ppb	99
47] 1,2-Dibromoethane (EDB)	6.85	107	2515	1.984	ppb	100
48) Chlorobenzene	7.30	112	6999	1.953	ppb	99
49] Ethylbenzene	7.40	91	12645	2.026	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	2543	1.972	ppb	97
51] m,p-Xylene	7.52	106	9568	4.067	ppb	100
52] o-Xylene	7.88	106	4674	2.028	ppb	98
53) Styrene	7.90	104	7627	2.024	ppb	96
54) Isopropylbenzene	8.23	105	12137	2.004	ppb	97
55) Bromoform	8.07	173	1843	1.886	ppb	90
58) n-Propylbenzene	8.63	91	14014	1.984	ppb	89
59) Bromobenzene	8.51	156	3221	1.942	ppb #	81
60) 1,3,5-Trimethylbenzene	8.80	105	10300	1.958	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	3085	2.054	ppb	89
62) 1,2,3-Trichloropropane	8.57	75	2401	1.904	ppb	93
63) 2-Chlorotoluene	8.70	91	8592	2.057	ppb	98
64) 4-Chlorotoluene	8.81	91	9620	1.959	ppb	94
65) tert-Butylbenzene	9.11	119	9031	1.959	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	10112	1.897	ppb	98
67) sec-Butylbenzene	9.32	105	13234	1.981	ppb	99
68) p-Isopropyltoluene	9.46	119	11415	1.984	ppb	96
69) 1,3-Dichlorobenzene	9.42	146	6353	2.058	ppb	98
70) 1,4-Dichlorobenzene	9.50	146	6259	1.990	ppb	94
71) 1,2-Dichlorobenzene	9.86	146	5860	1.973	ppb	94
72) 1,2-Dibromo-3-chloropr...	10.63	75	681	2.042	ppb #	67
73) 1,2,4-Trichlorobenzene	11.44	180	4030	1.910	ppb	94
74) Hexachlorobutadiene	11.61	225	2185	1.874	ppb	78
75) Naphthalene	11.68	128	11484	2.054	ppb	97
76) 1,2,3-Trichlorobenzene	11.92	180	3625	1.863	ppb	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

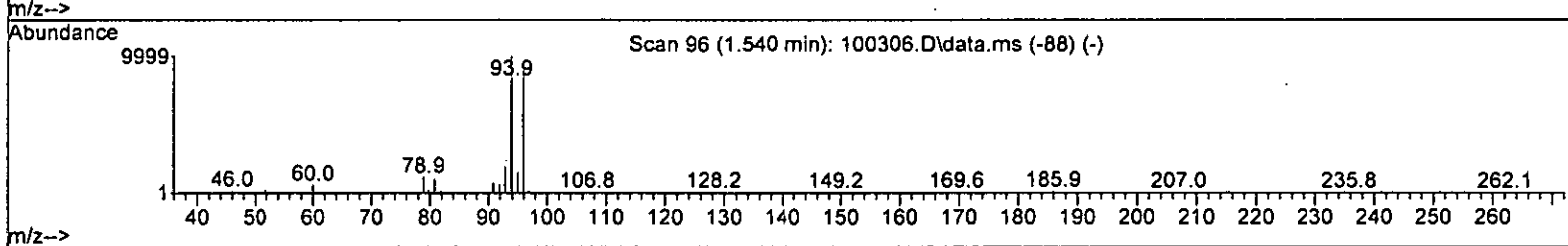
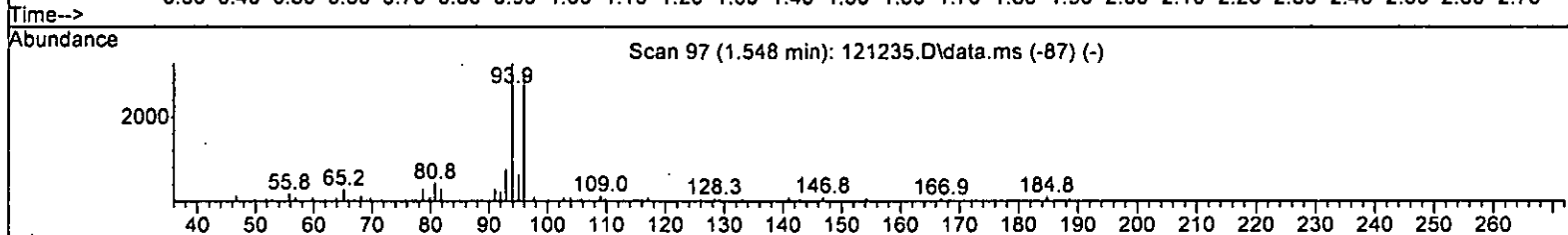
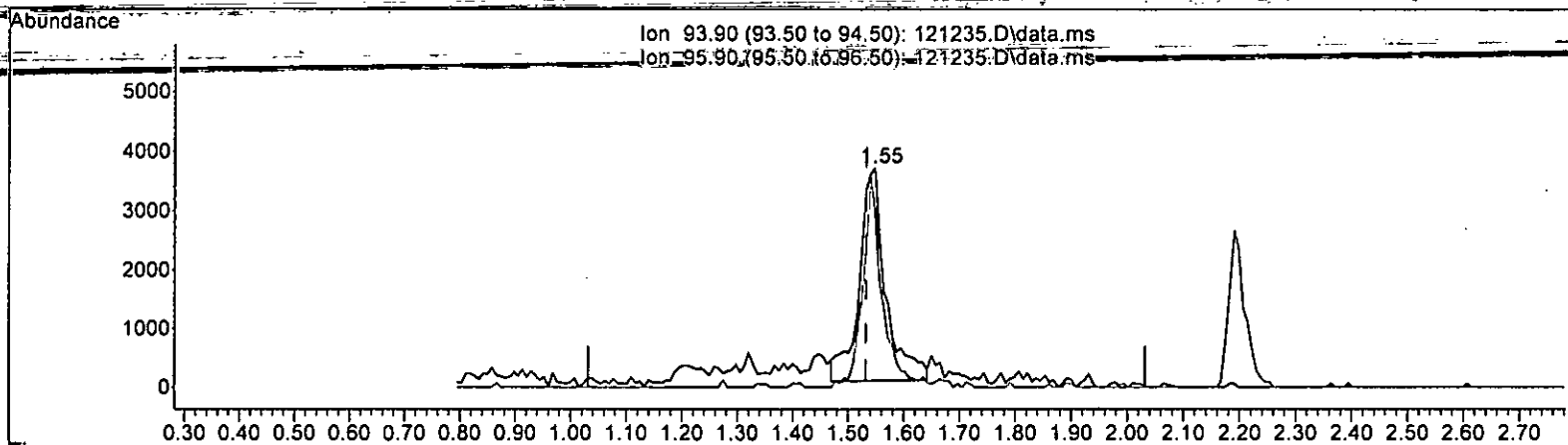
Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121235.D\data.ms

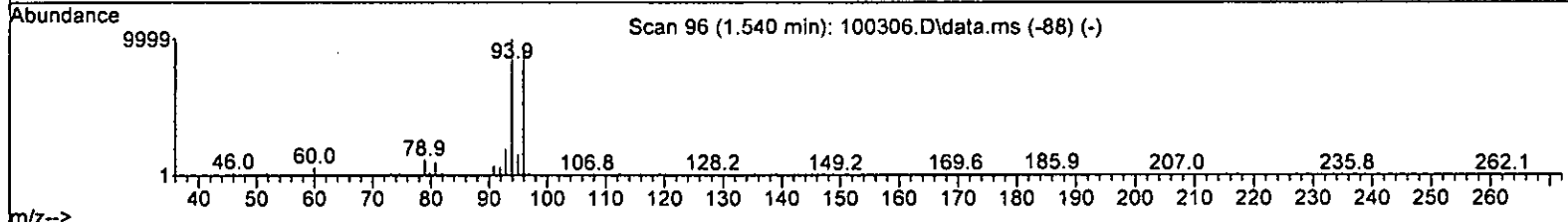
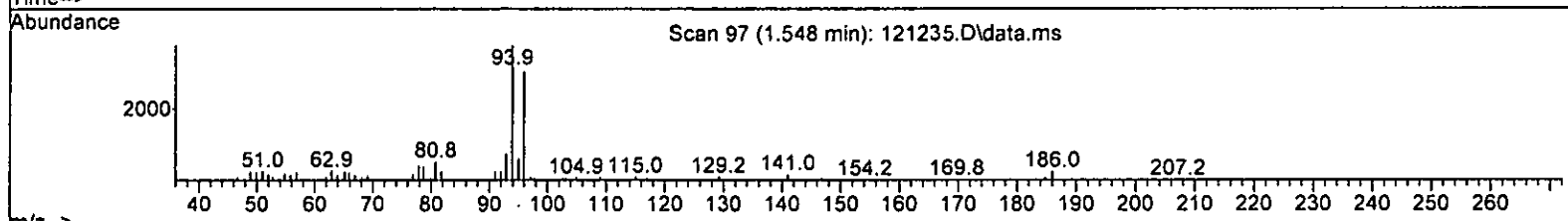
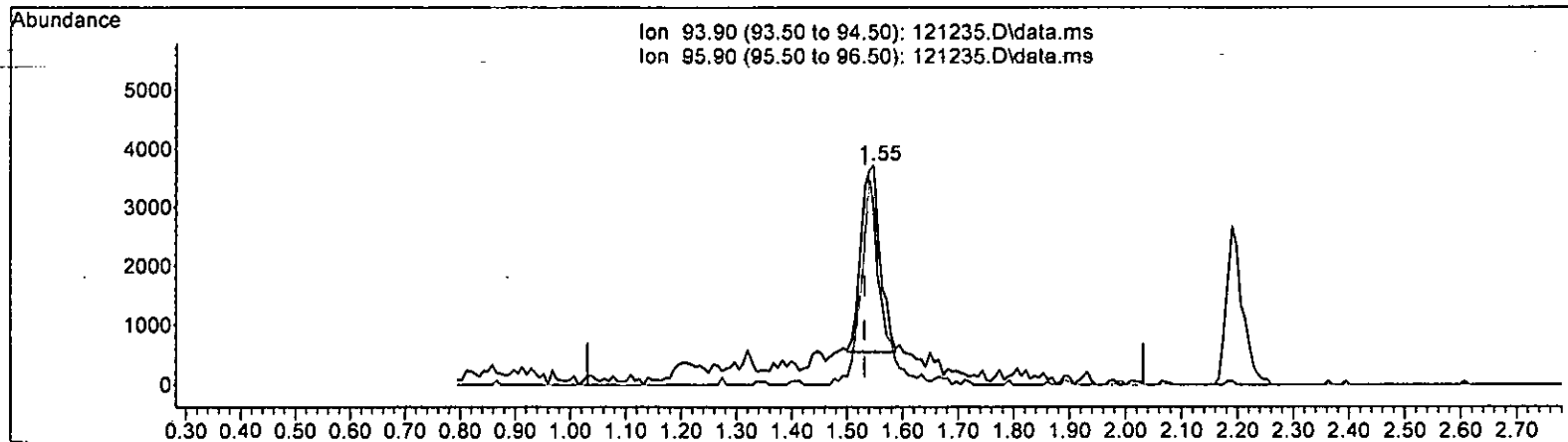
(7) Bromomethane (TMP)		
1.548min (+ 0.016)	6.572 ppb	
response	11813	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	87.24
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: 12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121235.D\data.ms

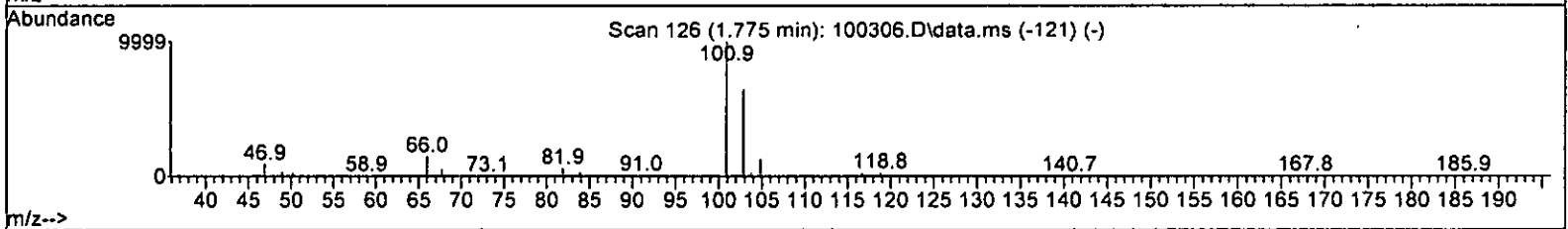
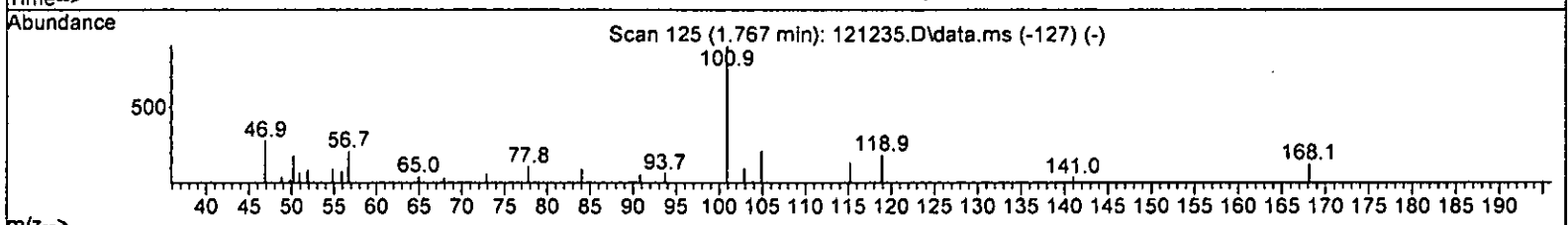
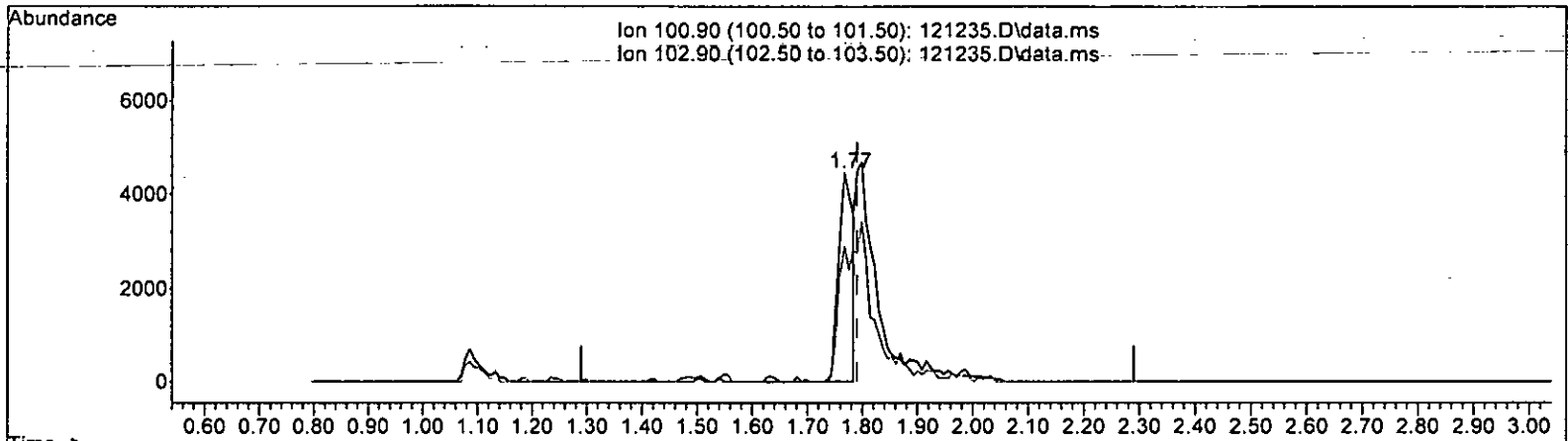
(7) Bromomethane (TMP)			
Retention Time	Response	Exp%	Act%
1.548min (+ 0.016)	7456	100.00	100.00
93.90		100.00	100.00
95.90		69.20	80.36
0.00		0.00	0.00
0.00		0.00	0.00

*Handwritten note: 12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121235.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 1.862 ppb

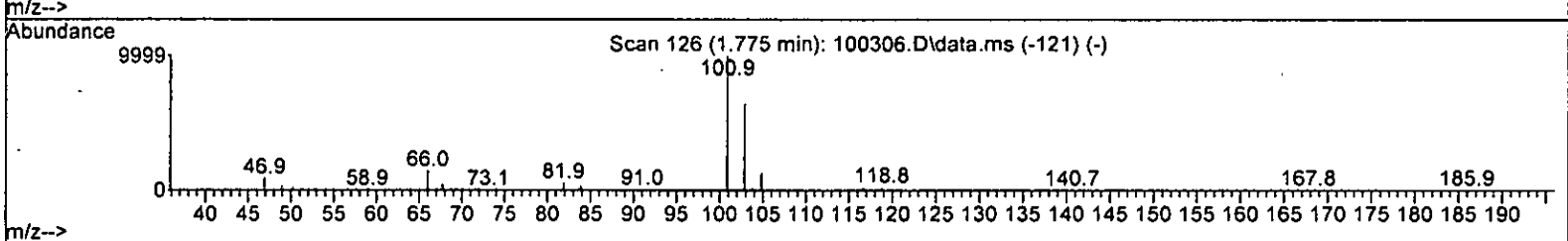
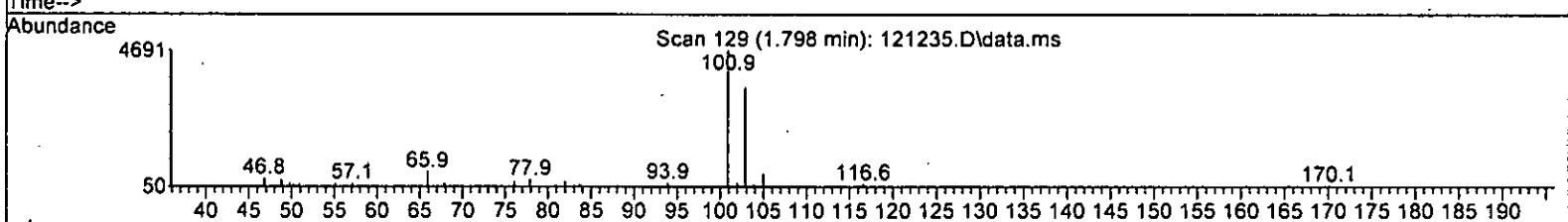
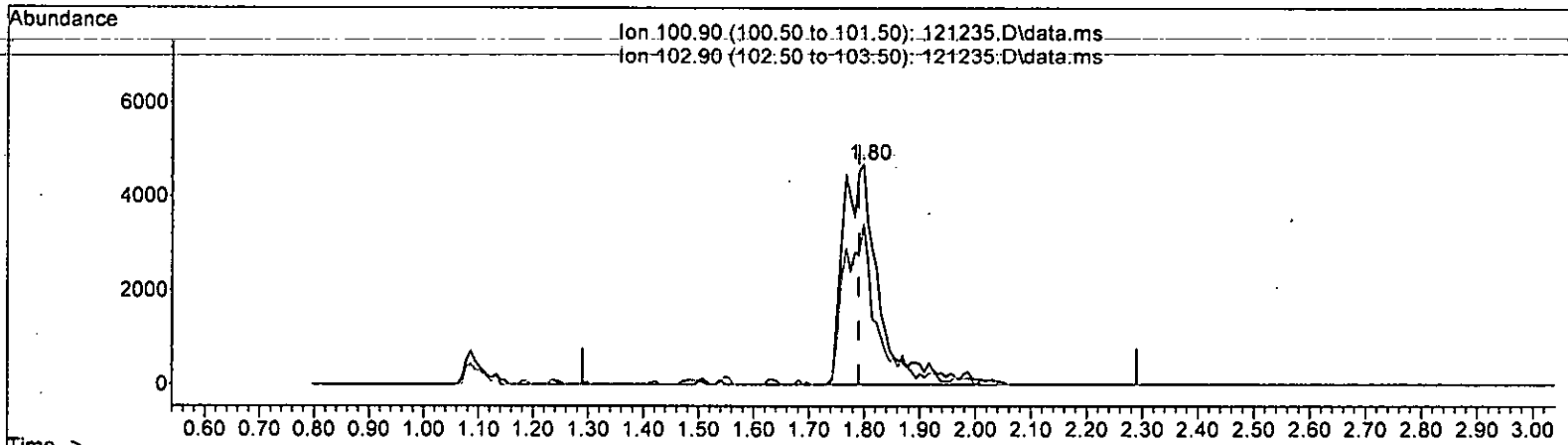
response	7904
Ion	Exp% Act%
100.90	100.00 100.00
102.90	62.70 65.09
0.00	0.00 0.00
0.00	0.00 0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121235.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.798min (+ 0.008) 5.170 ppb m

response	21948		
Ion	Exp%	Act%	
100.90	100.00	100.00	<i>12/15 LM</i>
102.90	62.70	72.89	
0.00	0.00	0.00	
0.00	0.00	0.00	



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.788	2.1	100	0.00
4 TMP Dichlorodifluoromethane	5.000	4.942	1.2	100	0.00
5 TMP Chloromethane	5.000	4.859	2.8	100	0.00
6 TMP Vinyl chloride	5.000	4.878	2.4	100	0.00
7 TMP Bromomethane	5.000	4.148	17.0	100	0.02
8 TMP Chloroethane	5.000	4.728	5.4	100	0.00
9 TMP Trichlorofluoromethane	5.000	5.170	-3.4	104	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	25.000	23.045	7.8	100	0.00
12 TMP 1,1-Dichloroethene	5.000	4.750	5.0	100	0.00
13 TMP Hexane	5.000	4.750	5.0	100	0.00
14 TMP Methylene chloride	5.000	5.745	-14.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	25.000	23.352	6.6	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	5.000	4.971	0.6	100	0.00
17 TMP trans-1,2-Dichloroethene	5.000	5.021	-0.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	5.000	4.959	0.8	100	0.00
19 TMP 1,1-Dichloroethane	5.000	4.880	2.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	5.000	4.794	4.1	100	0.00
21 TMP 2,2-Dichloropropane	5.000	4.739	5.2	100	0.00
22 TMP cis-1,2-Dichloroethene	5.000	4.845	3.1	100	0.00
23 TMP Chloroform	5.000	4.944	1.1	100	0.00
24 TMP 2-Butanone (MEK)	25.000	26.196	-4.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	5.000	4.906	1.9	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	5.000	4.734	5.3	100	0.00
27 TMP 1,1,1-Trichloroethane	5.000	4.859	2.8	100	0.00
28 TMP 1,1-Dichloropropene	5.000	4.825	3.5	100	0.00
29 TMP Carbon tetrachloride	5.000	4.902	2.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.917	0.8	100	0.00
31 TMP Benzene	5.000	4.860	2.8	100	0.00
32 TMP Trichloroethene	5.000	4.769	4.6	100	0.00
33 TMP 1,2-Dichloropropane	5.000	4.540	9.2	100	0.00
34 TMP Bromodichloromethane	5.000	4.562	8.8	100	0.00
35 S Toluene-d8	10.000	9.824	1.8	100	0.00
36 TMP Dibromomethane	5.000	5.030	-0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	25.000	24.628	1.5	100	0.00
38 TMP cis-1,3-Dichloropropene	5.000	4.414	11.7	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	5.000	4.876	2.5	100	0.00
41 TMP trans-1,3-Dichloropropene	5.000	5.115	-2.3	100	0.00
42 TMP 1,1,2-Trichloroethane	5.000	4.937	1.3	100	0.00
43 TMP 2-Hexanone	25.000	25.784	-3.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44	TMP 1,3-Dichloropropane	5.000	5.076	-1.5	100	0.00
45	TMP Tetrachloroethene	5.000	4.811	3.8	100	0.00
46	TMP Dibromochloromethane	5.000	4.809	3.8	100	0.00
47	TMP 1,2-Dibromoethane (EDB)	5.000	4.894	2.1	100	0.00
48	TMP Chlorobenzene	5.000	4.971	0.6	100	0.00
49	TMP Ethylbenzene	5.000	4.985	0.3	100	0.00
50	TMP 1,1,1,2-Tetrachloroethane	5.000	5.071	-1.4	100	0.00
51	TMP m,p-Xylene	10.000	9.969	0.3	100	0.00
52	TMP o-Xylene	5.000	5.006	-0.1	100	0.00
53	TMP Styrene	5.000	5.221	-4.4	100	0.00
54	TMP Isopropylbenzene	5.000	4.952	1.0	100	0.00
55	TMP Bromoform	5.000	4.836	3.3	100	0.00
56	I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57	S 4-Bromofluorobenzene	10.000	9.730	2.7	100	0.00
58	TMP n-Propylbenzene	5.000	4.927	1.5	100	0.00
59	TMP Bromobenzene	5.000	4.969	0.6	100	0.00
60	TMP 1,3,5-Trimethylbenzene	5.000	4.816	3.7	100	0.00
61	TMP 1,1,2,2-Tetrachloroethane	5.000	5.047	-0.9	100	0.00
62	TMP 1,2,3-Trichloropropane	5.000	5.106	-2.1	100	0.00
63	TMP 2-Chlorotoluene	5.000	4.705	5.9	100	0.00
64	TMP 4-Chlorotoluene	5.000	4.619	7.6	100	0.00
65	TMP tert-Butylbenzene	5.000	4.757	4.9	100	0.00
66	TMP 1,2,4-Trimethylbenzene	5.000	4.762	4.8	100	0.00
67	TMP sec-Butylbenzene	5.000	4.773	4.5	100	0.00
68	TMP p-Isopropyltoluene	5.000	4.785	4.3	100	0.00
69	TMP 1,3-Dichlorobenzene	5.000	4.735	5.3	100	0.00
70	TMP 1,4-Dichlorobenzene	5.000	4.708	5.8	100	0.00
71	TMP 1,2-Dichlorobenzene	5.000	4.857	2.9	100	0.00
72	TMP 1,2-Dibromo-3-chloropropane	5.000	4.574	8.5	100	0.00
73	TMP 1,2,4-Trichlorobenzene	5.000	4.707	5.9	100	0.00
74	TMP Hexachlorobutadiene	5.000	4.800	4.0	100	0.00
75	TMP Naphthalene	5.000	4.667	6.7	100	0.00
76	TMP 1,2,3-Trichlorobenzene	5.000	4.727	5.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.258	2.3	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.681	1.0	100	0.00
5 TMP Chloromethane	0.883	0.858	2.8	100	0.00
6 TMP Vinyl chloride	0.732	0.714	2.5	100	0.00
7 TMP Bromomethane	0.368	0.306	16.8	100	0.02
8 TMP Chloroethane	0.336	0.318	5.4	100	0.00
9 TMP Trichlorofluoromethane	0.870	0.899	-3.3	104	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.034	8.1	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.228	5.0	100	0.00
13 TMP Hexane	0.434	0.412	5.1	100	0.00
14 TMP Methylene chloride	0.269	0.309	-14.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.043	6.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.729	0.5	100	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.273	-0.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.924	0.9	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.492	2.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.284	4.1	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.299	5.4	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.277	3.1	100	0.00
23 TMP Chloroform	0.477	0.472	1.0	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.192	-4.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.680	2.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.391	5.3	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.428	2.7	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.350	3.3	100	0.00
29 TMP Carbon tetrachloride	0.367	0.360	1.9	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	0.999	0.971	2.8	100	0.00
32 TMP Trichloroethene	0.316	0.301	4.7	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.269	9.1	100	0.00
34 TMP Bromodichloromethane	0.357	0.326	8.7	100	0.00
35 S Toluene-d8	0.960	0.943	1.8	100	0.00
36 TMP Dibromomethane	0.169	0.170	-0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.378	11.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.836	2.6	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.495	-2.3	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.260	1.5	100	0.00
43 TMP 2-Hexanone	0.335	0.346	-3.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.477	-1.5	100	0.00
45 TMP Tetrachloroethene	0.342	0.329	3.8	100	0.00
46 TMP Dibromochloromethane	0.354	0.340	4.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.320	2.1	100	0.00
48 TMP Chlorobenzene	0.925	0.920	0.5	100	0.00
49 TMP Ethylbenzene	1.611	1.607	0.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.338	-1.5	100	0.00
51 TMP m,p-Xylene	0.607	0.605	0.3	100	0.00
52 TMP o-Xylene	0.595	0.596	-0.2	100	0.00
53 TMP Styrene	0.973	1.016	-4.4	100	0.00
54 TMP Isopropylbenzene	1.564	1.549	1.0	100	0.00
55 TMP Bromoform	0.252	0.244	3.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.822	2.6	100	0.00
58 TMP n-Propylbenzene	3.281	3.233	1.5	100	0.00
59 TMP Bromobenzene	0.770	0.766	0.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.353	3.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.704	-0.9	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.598	-2.0	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.826	5.9	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.107	7.6	100	0.00
65 TMP tert-Butylbenzene	2.141	2.037	4.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.358	4.8	100	0.00
67 TMP sec-Butylbenzene	3.103	2.962	4.5	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.557	4.3	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.358	5.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.376	5.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.340	2.9	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.142	8.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.922	5.9	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.520	4.1	100	0.00
75 TMP Naphthalene	2.597	2.424	6.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.855	5.4	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	48803	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	37344	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21151	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12604	9.788	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	97.90%		
30) 1,2-Dichloroethane-d4	4.36	102	2920	9.917	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	99.20%		
35) Toluene-d8	5.98	98	46032	9.824	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	98.20%		
57) 4-Bromofluorobenzene	8.38	95	17376	9.730	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	97.30%		
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	1.09	85	16607	4.942	ppb	96	
5) Chloromethane	1.23	50	20935	4.859	ppb	95	
6] Vinyl chloride	1.29	62	17419	4.878	ppb	99	
7) Bromomethane	1.55	94	7456m	4.148	ppb		
8] Chloroethane	1.60	64	7762	4.728	ppb	100	
9) Trichlorofluoromethane	1.80	101	21948m	5.170	ppb		
10] 2-Propanol	2.41	45	324	No Calib			
11) Acetone	2.26	58	4187	23.045	ppb	97	
12] 1,1-Dichloroethene	2.19	96	5572	4.750	ppb	94	
13) Hexane	3.05	57	10054	4.750	ppb	97	
14) Methylene chloride	2.61	84	7543	5.745	ppb	95	
15) t-Butyl alcohol (TBA)	2.74	59	5263	23.352	ppb	100	
16] Methyl t-butyl ether (...)	2.84	73	17787	4.971	ppb	96	
17] trans-1,2-Dichloroethene	2.83	96	6671	5.021	ppb	87	
18) Diisopropyl ether (DIPE)	3.24	45	22556	4.959	ppb	99	
19] 1,1-Dichloroethane	3.18	63	12011	4.880	ppb	97	
20] Ethyl t-butyl ether (E...)	3.55	87	6926	4.794	ppb	88	
21) 2,2-Dichloropropane	3.67	77	7308	4.739	ppb	91	
22] cis-1,2-Dichloroethene	3.67	96	6771	4.845	ppb	93	
23) Chloroform	3.94	83	11509	4.944	ppb	92	
24) 2-Butanone (MEK)	3.70	43	23381	26.196	ppb	93	
25) t-Amyl methyl ether (T...)	4.49	73	16604	4.906	ppb	97	
26] 1,2-Dichloroethane (EDC)	4.41	62	9550	4.734	ppb	96	
27] 1,1,1-Trichloroethane	4.08	97	10437	4.859	ppb	97	
28) 1,1-Dichloropropene	4.22	75	8529	4.825	ppb	92	
29) Carbon tetrachloride	4.21	117	8782	4.902	ppb	96	
31] Benzene	4.39	78	23692	4.860	ppb	92	
32] Trichloroethene	4.93	95	7345	4.769	ppb	93	
33) 1,2-Dichloropropane	5.13	63	6565	4.540	ppb	97	
34) Bromodichloromethane	5.37	83	7957	4.562	ppb	87	
36) Dibromomethane	5.23	93	4146	5.030	ppb	97	

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

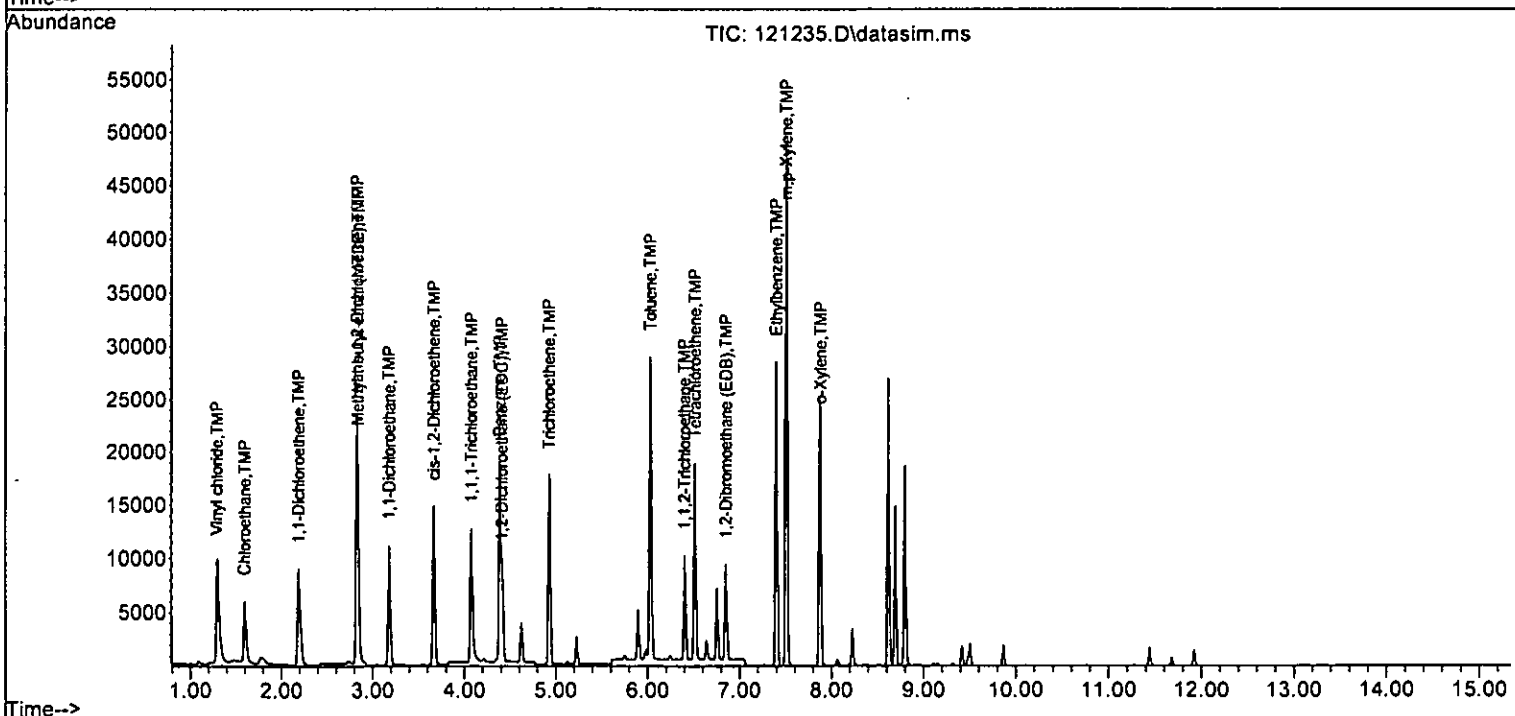
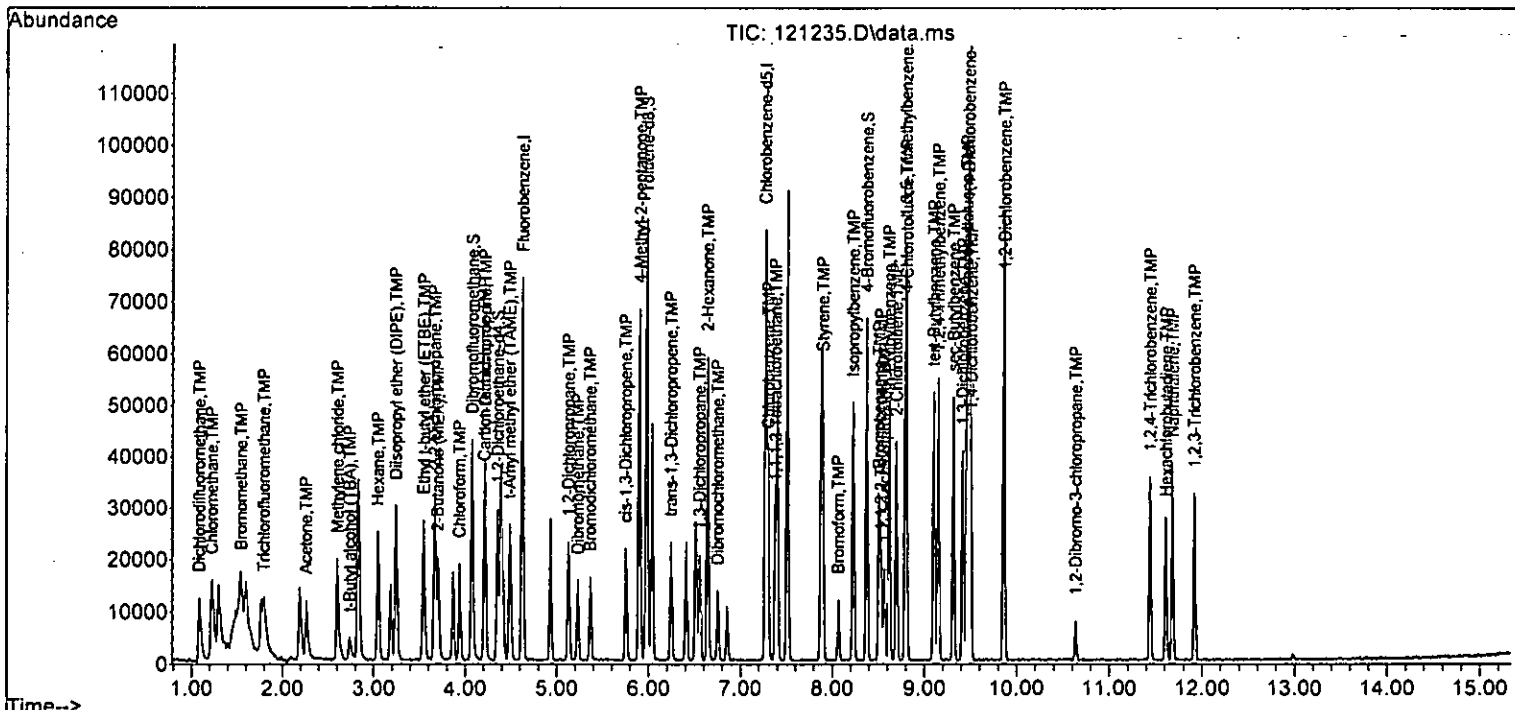
Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	6272	24.628	ppb	99
38) cis-1,3-Dichloropropene	5.75	75	9232	4.414	ppb	92
40] Toluene	6.03	92	15615	4.876	ppb	90
41) trans-1,3-Dichloropropene	6.25	75	9238	5.115	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	4862	4.937	ppb	97
43) 2-Hexanone	6.64	43	32294	25.784	ppb	98
44) 1,3-Dichloropropane	6.55	76	8904	5.076	ppb	98
45] Tetrachloroethene	6.51	164	6148	4.811	ppb	98
46) Dibromochloromethane	6.75	129	6352	4.809	ppb	97
47] 1,2-Dibromoethane (EDB)	6.85	107	5982	4.894	ppb	100
48) Chlorobenzene	7.30	112	17175	4.971	ppb	95
49] Ethylbenzene	7.40	91	29998	4.985	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	6304	5.071	ppb	92
51] m,p-Xylene	7.51	106	22609	9.969	ppb #	70
52] o-Xylene	7.88	106	11122	5.006	ppb	97
53) Styrene	7.90	104	18970	5.221	ppb	93
54) Isopropylbenzene	8.23	105	28922	4.952	ppb	100
55) Bromoform	8.07	173	4555	4.836	ppb	97
58) n-Propylbenzene	8.62	91	34191	4.927	ppb	97
59) Bromobenzene	8.51	156	8097	4.969	ppb	96
60) 1,3,5-Trimethylbenzene	8.80	105	24883	4.816	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	7448	5.047	ppb	90
62) 1,2,3-Trichloropropane	8.57	75	6327	5.106	ppb	89
63) 2-Chlorotoluene	8.70	91	19313	4.705	ppb	100
64) 4-Chlorotoluene	8.81	91	22285	4.619	ppb	97
65) tert-Butylbenzene	9.10	119	21540	4.757	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	24938	4.762	ppb	92
67) sec-Butylbenzene	9.31	105	31326	4.773	ppb	98
68) p-Isopropyltoluene	9.46	119	27043	4.785	ppb	99
69) 1,3-Dichlorobenzene	9.42	146	14361	4.735	ppb	93
70) 1,4-Dichlorobenzene	9.51	146	14547	4.708	ppb	95
71) 1,2-Dichlorobenzene	9.87	146	14174	4.857	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.64	75	1499	4.574	ppb	95
73) 1,2,4-Trichlorobenzene	11.44	180	9754	4.707	ppb	98
74) Hexachlorobutadiene	11.61	225	5498	4.800	ppb	85
75) Naphthalene	11.68	128	25634	4.667	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	9037	4.727	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

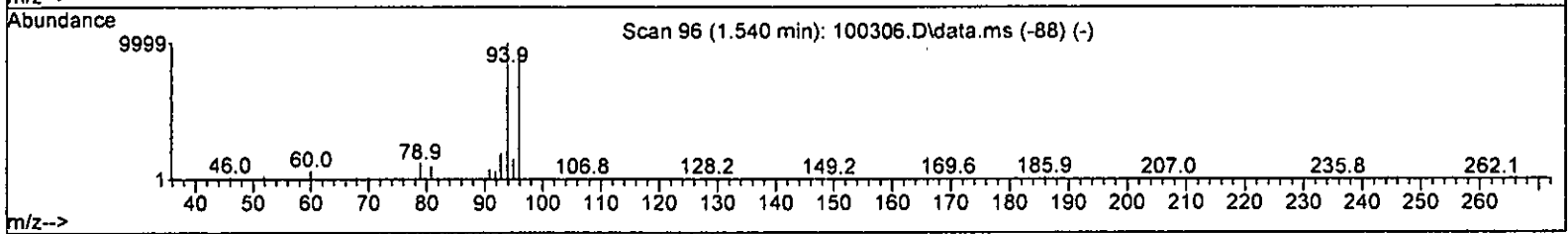
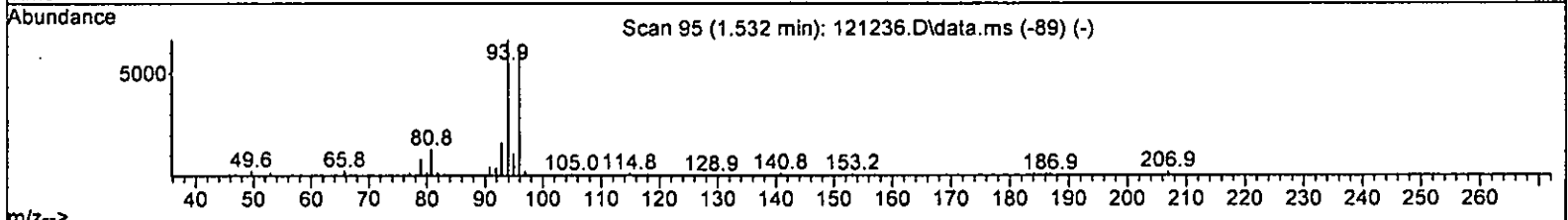
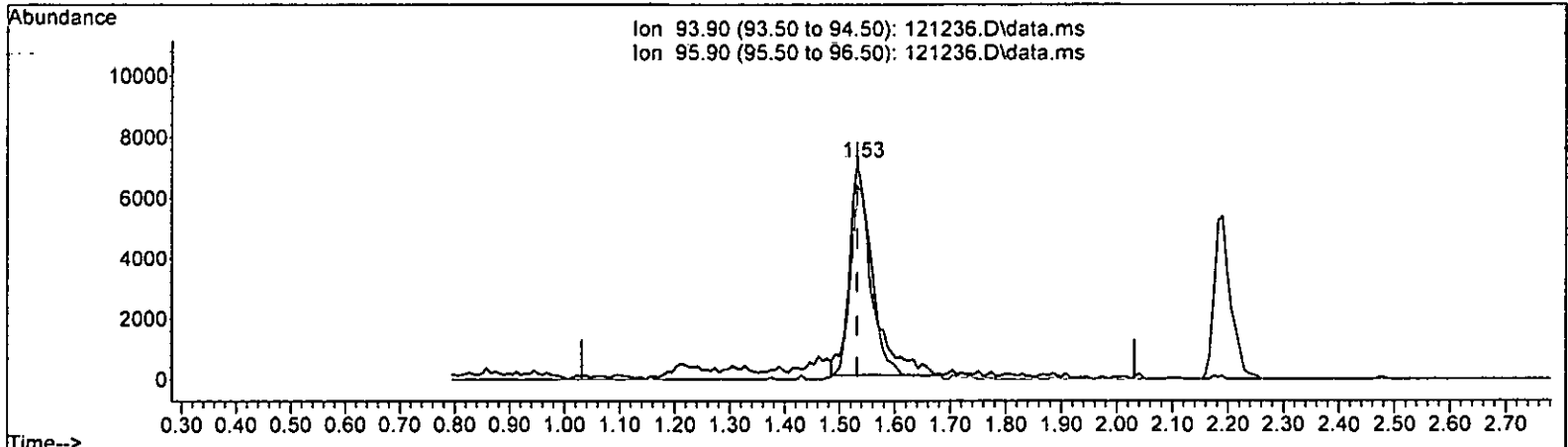
Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121236.D\data.ms

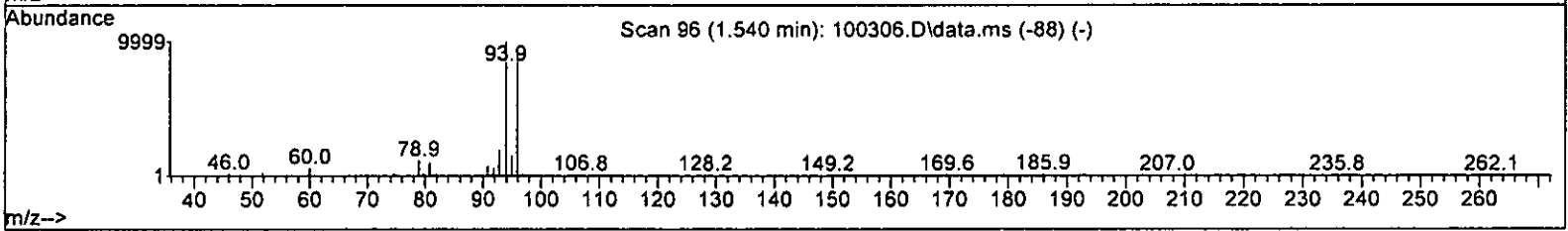
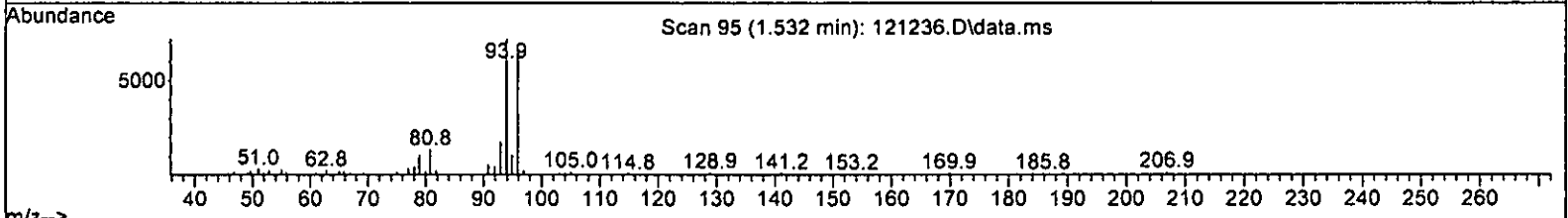
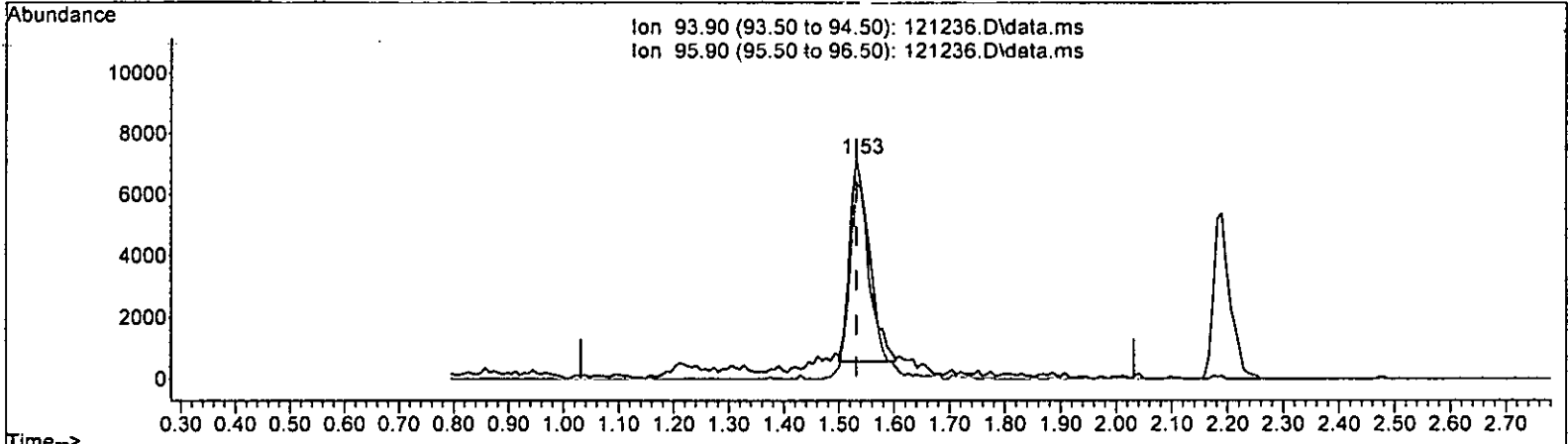
(7) Bromomethane (TMP)			
1.532min (-0.000) 12/106 ppb			
response	21050		
Ion	Expt	Act%	
93.90	100.00	100.00	<i>12/15 LM</i>
95.90	69.20	91.07	
0.00	0.00	0.00	
0.00	0.00	0.00	



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121236.D\data.ms

(7) Bromomethane (TMP)			
1.532min (-0.000) 9.339 ppb m			
response	16239		
Ion	Exp%	Act%	
93.90	100.00	100.00	<i>12/15 LM</i>
95.90	69.20	89.43	
0.00	0.00	0.00	
0.00	0.00	0.00	

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.069	-0.7	100	0.00
4 TMP Dichlorodifluoromethane	10.000	9.783	2.2	100	0.00
5 TMP Chloromethane	10.000	9.771	2.3	100	0.00
6 TMP Vinyl chloride	10.000	10.198	-2.0	100	0.00
7 TMP Bromomethane	10.000	9.339	6.6	104	0.00
8 TMP Chloroethane	10.000	9.829	1.7	100	0.00
9 TMP Trichlorofluoromethane	10.000	9.726	2.7	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	46.444	7.1	100	0.00
12 TMP 1,1-Dichloroethene	10.000	10.126	-1.3	100	0.00
13 TMP Hexane	10.000	10.044	-0.4	100	0.00
14 TMP Methylene chloride	10.000	10.715	-7.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	49.443	1.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.370	-3.7	100	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.134	-1.3	100	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.998	0.0	100	0.00
19 TMP 1,1-Dichloroethane	10.000	10.253	-2.5	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.386	-3.9	100	0.00
21 TMP 2,2-Dichloropropane	10.000	10.005	-0.1	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	10.140	-1.4	100	0.00
23 TMP Chloroform	10.000	9.592	4.1	100	0.00
24 TMP 2-Butanone (MEK)	50.000	48.782	2.4	100	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	10.319	-3.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	9.902	1.0	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.124	-1.2	100	0.00
28 TMP 1,1-Dichloropropene	10.000	10.072	-0.7	100	0.00
29 TMP Carbon tetrachloride	10.000	10.188	-1.9	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.599	-6.0	100	0.00
31 TMP Benzene	10.000	10.086	-0.9	100	0.00
32 TMP Trichloroethene	10.000	10.071	-0.7	100	0.00
33 TMP 1,2-Dichloropropane	10.000	9.926	0.7	100	0.00
34 TMP Bromodichloromethane	10.000	9.853	1.5	100	0.00
35 S Toluene-d8	10.000	9.802	2.0	100	0.00
36 TMP Dibromomethane	10.000	10.365	-3.7	100	0.00
37 TMP 4-Methyl-2-pentanone	50.000	48.757	2.5	100	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.748	2.5	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	10.000	9.979	0.2	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.943	0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.153	-1.5	100	0.00
43 TMP 2-Hexanone	50.000	51.220	-2.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.558	-5.6	100	0.00
45 TMP Tetrachloroethene	10.000	9.813	1.9	100	0.00
46 TMP Dibromochloromethane	10.000	9.970	0.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.035	-0.4	100	0.00
48 TMP Chlorobenzene	10.000	10.141	-1.4	100	0.00
49 TMP Ethylbenzene	10.000	10.158	-1.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.518	-5.2	100	0.00
51 TMP m,p-Xylene	20.000	20.237	-1.2	100	0.00
52 TMP o-Xylene	10.000	10.217	-2.2	100	0.00
53 TMP Styrene	10.000	10.267	-2.7	100	0.00
54 TMP Isopropylbenzene	10.000	10.275	-2.8	100	0.00
55 TMP Bromoform	10.000	10.118	-1.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.143	-1.4	100	0.00
58 TMP n-Propylbenzene	10.000	10.113	-1.1	100	0.00
59 TMP Bromobenzene	10.000	10.054	-0.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.792	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	10.163	-1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.870	1.3	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.930	0.7	100	0.00
64 TMP 4-Chlorotoluene	10.000	9.827	1.7	100	0.00
65 TMP tert-Butylbenzene	10.000	9.942	0.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.000	0.0	100	0.00
67 TMP sec-Butylbenzene	10.000	9.844	1.6	100	0.00
68 TMP p-Isopropyltoluene	10.000	10.133	-1.3	100	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.879	1.2	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.915	0.9	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.074	-0.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.649	3.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.881	1.2	100	0.00
74 TMP Hexachlorobutadiene	10.000	9.973	0.3	100	0.00
75 TMP Naphthalene	10.000	9.429	5.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.133	-1.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.266	-0.8	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.674	2.0	100	0.00
5 TMP Chloromethane	0.883	0.863	2.3	100	0.00
6 TMP Vinyl chloride	0.732	0.746	-1.9	100	0.00
7 TMP Bromomethane	0.368	0.344	6.5	104	0.00
8 TMP Chloroethane	0.336	0.331	1.5	100	0.00
9 TMP Trichlorofluoromethane	0.870	0.846	2.8	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.035	5.4	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.243	-1.3	100	0.00
13 TMP Hexane	0.434	0.436	-0.5	100	0.00
14 TMP Methylene chloride	0.269	0.288	-7.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.760	-3.7	100	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.276	-1.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.932	0.0	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.517	-2.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.307	-3.7	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.316	0.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.290	-1.4	100	0.00
23 TMP Chloroform	0.477	0.458	4.0	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.178	2.7	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.716	-3.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.409	1.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.446	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.365	-0.8	100	0.00
29 TMP Carbon tetrachloride	0.367	0.374	-1.9	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.064	-6.7	100	0.00
31 TMP Benzene	0.999	1.008	-0.9	100	0.00
32 TMP Trichloroethene	0.316	0.318	-0.6	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.294	0.7	100	0.00
34 TMP Bromodichloromethane	0.357	0.352	1.4	100	0.00
35 S Toluene-d8	0.960	0.941	2.0	100	0.00
36 TMP Dibromomethane	0.169	0.175	-3.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.418	2.6	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.856	0.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.481	0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.268	-1.5	100	0.00
43 TMP 2-Hexanone	0.335	0.344	-2.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.496	-5.5	100	0.00
45 TMP Tetrachloroethene	0.342	0.336	1.8	100	0.00
46 TMP Dibromochloromethane	0.354	0.353	0.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.328	-0.3	100	0.00
48 TMP Chlorobenzene	0.925	0.938	-1.4	100	0.00
49 TMP Ethylbenzene	1.611	1.637	-1.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.350	-5.1	100	0.00
51 TMP m,p-Xylene	0.607	0.615	-1.3	100	0.00
52 TMP o-Xylene	0.595	0.608	-2.2	100	0.00
53 TMP Styrene	0.973	0.999	-2.7	100	0.00
54 TMP Isopropylbenzene	1.564	1.607	-2.7	100	0.00
55 TMP Bromoform	0.252	0.255	-1.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.856	-1.4	100	0.00
58 TMP n-Propylbenzene	3.281	3.318	-1.1	100	0.00
59 TMP Bromobenzene	0.770	0.775	-0.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.392	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.709	-1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.578	1.4	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.927	0.7	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.241	1.8	100	0.00
65 TMP tert-Butylbenzene	2.141	2.128	0.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.476	0.0	100	0.00
67 TMP sec-Butylbenzene	3.103	3.055	1.5	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.707	-1.3	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.417	1.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.448	0.9	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.390	-0.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.149	3.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.968	1.2	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.540	0.4	100	0.00
75 TMP Naphthalene	2.597	2.449	5.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.916	-1.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	47211	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	36478	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	20261	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.07	113	12542	10.069	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.70%		
30) 1,2-Dichloroethane-d4	4.35	102	3019	10.599	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	106.00%		
35) Toluene-d8	5.98	98	44430	9.802	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	98.00%		
57) 4-Bromofluorobenzene	8.38	95	17351	10.143	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	101.40%		
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.08	85	31799	9.783	ppb		99
5) Chloromethane	1.22	50	40723	9.771	ppb		97
6] Vinyl chloride	1.29	62	35229	10.198	ppb		97
7) Bromomethane	1.53	94	16239m	9.339	ppb		
8] Chloroethane	1.59	64	15611	9.829	ppb		100
9) Trichlorofluoromethane	1.79	101	39943	9.726	ppb		96
10) 2-Propanol	2.41	45	312	No Calib			
11) Acetone	2.26	58	8163	46.444	ppb	#	85
12] 1,1-Dichloroethene	2.18	96	11491	10.126	ppb		83
13) Hexane	3.05	57	20568	10.044	ppb		97
14) Methylene chloride	2.60	84	13609	10.715	ppb		95
15) t-Butyl alcohol (TBA)	2.73	59	10780	49.443	ppb		99
16] Methyl t-butyl ether (...)	2.83	73	35895	10.370	ppb		94
17] trans-1,2-Dichloroethene	2.82	96	13025	10.134	ppb		98
18) Diisopropyl ether (DIPE)	3.24	45	43994	9.998	ppb		97
19] 1,1-Dichloroethane	3.18	63	24409	10.253	ppb		99
20) Ethyl t-butyl ether (E...)	3.55	87	14514	10.386	ppb		91
21) 2,2-Dichloropropane	3.66	77	14926	10.005	ppb		90
22] cis-1,2-Dichloroethene	3.67	96	13710	10.140	ppb		88
23) Chloroform	3.94	83	21601	9.592	ppb		92
24) 2-Butanone (MEK)	3.70	43	42119	48.782	ppb		99
25) t-Amyl methyl ether (T...)	4.49	73	33785	10.319	ppb		98
26] 1,2-Dichloroethane (EDC)	4.41	62	19323	9.902	ppb		97
27] 1,1,1-Trichloroethane	4.08	97	21039	10.124	ppb		94
28) 1,1-Dichloropropene	4.22	75	17223	10.072	ppb		97
29) Carbon tetrachloride	4.21	117	17656	10.188	ppb		98
31] Benzene	4.38	78	47570	10.086	ppb		94
32] Trichloroethene	4.93	95	15004	10.071	ppb		88
33) 1,2-Dichloropropane	5.13	63	13885	9.926	ppb		98
34) Bromodichloromethane	5.37	83	16626	9.853	ppb		83
36) Dibromomethane	5.23	93	8265	10.365	ppb		95

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

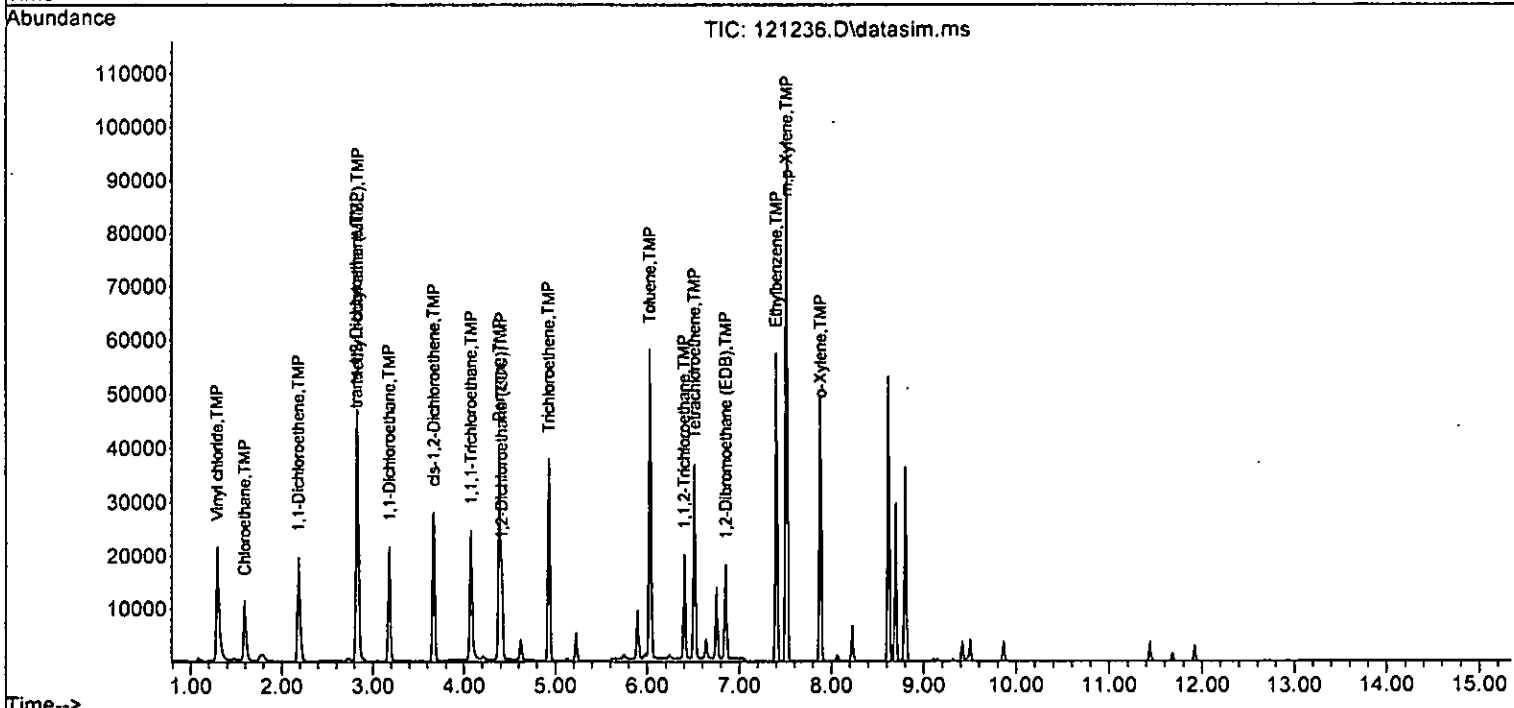
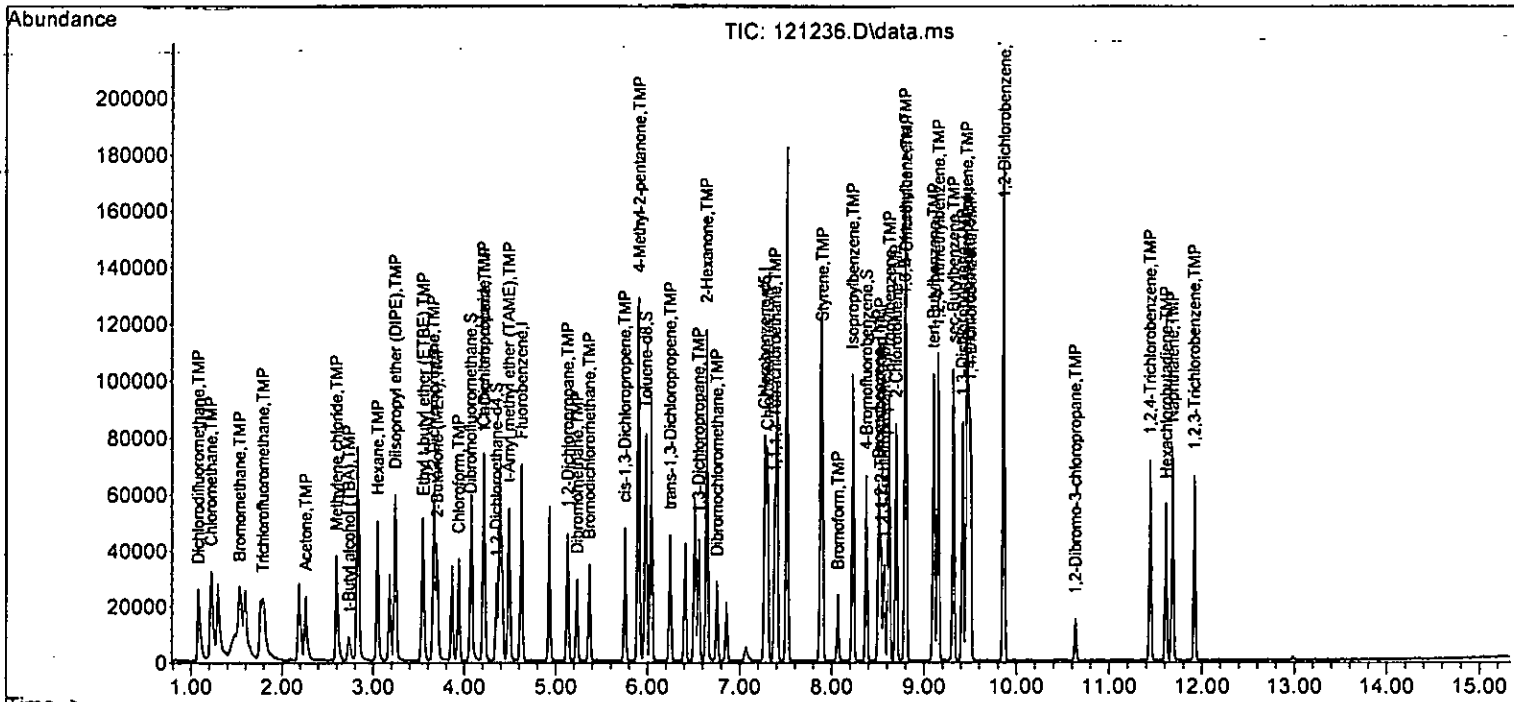
Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	12012	48.757	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	19722	9.748	ppb	99
40) Toluene	6.03	92	31218	9.979	ppb	92
41) trans-1,3-Dichloropropene	6.25	75	17541	9.943	ppb	97
42) 1,1,2-Trichloroethane	6.40	83	9767	10.153	ppb	97
43) 2-Hexanone	6.64	43	62666	51.220	ppb	97
44) 1,3-Dichloropropane	6.55	76	18090	10.558	ppb	100
45) Tetrachloroethene	6.51	164	12249	9.813	ppb	99
46) Dibromochloromethane	6.75	129	12864	9.970	ppb	97
47) 1,2-Dibromoethane (EDB)	6.85	107	11982	10.035	ppb	99
48) Chlorobenzene	7.30	112	34223	10.141	ppb	98
49) Ethylbenzene	7.40	91	59706	10.158	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	12772	10.518	ppb	95
51) m,p-Xylene	7.51	106	44834	20.237	ppb #	69
52) o-Xylene	7.88	106	22172	10.217	ppb	98
53) Styrene	7.90	104	36435	10.267	ppb	100
54) Isopropylbenzene	8.23	105	58617	10.275	ppb	98
55) Bromoform	8.07	173	9309	10.118	ppb	96
58) n-Propylbenzene	8.63	91	67235	10.113	ppb	98
59) Bromobenzene	8.51	156	15695	10.054	ppb	97
60) 1,3,5-Trimethylbenzene	8.79	105	48463	9.792	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	14366	10.163	ppb	91
62) 1,2,3-Trichloropropane	8.57	75	11716	9.870	ppb	97
63) 2-Chlorotoluene	8.70	91	39041	9.930	ppb	95
64) 4-Chlorotoluene	8.81	91	45413	9.827	ppb	97
65) tert-Butylbenzene	9.10	119	43121	9.942	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	50168	10.000	ppb	95
67) sec-Butylbenzene	9.31	105	61889	9.844	ppb	100
68) p-Isopropyltoluene	9.46	119	54856	10.133	ppb	99
69) 1,3-Dichlorobenzene	9.42	146	28704	9.879	ppb	98
70) 1,4-Dichlorobenzene	9.50	146	29345	9.915	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	28163	10.074	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.63	75	3029	9.649	ppb	98
73) 1,2,4-Trichlorobenzene	11.44	180	19616	9.881	ppb	99
74) Hexachlorobutadiene	11.61	225	10943	9.973	ppb	93
75) Naphthalene	11.68	128	49612	9.429	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	18559	10.133	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.066	-0.7	100	0.00
4 TMP Dichlorodifluoromethane	20.000	19.846	0.8	100	0.00
5 TMP Chloromethane	20.000	19.148	4.3	100	0.00
6 TMP Vinyl chloride	20.000	19.794	1.0	100	0.00
7 TMP Bromomethane	20.000	21.535	-7.7	100	0.00
8 TMP Chloroethane	20.000	19.344	3.3	100	0.00
9 TMP Trichlorofluoromethane	20.000	19.153	4.2	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	100.000	94.914	5.1	100	0.00
12 TMP 1,1-Dichloroethene	20.000	19.447	2.8	100	0.00
13 TMP Hexane	20.000	19.153	4.2	100	0.00
14 TMP Methylene chloride	20.000	19.409	3.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	100.000	99.207	0.8	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	20.000	19.849	0.8	100	0.00
17 TMP trans-1,2-Dichloroethene	20.000	19.091	4.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	20.000	19.331	3.3	100	0.00
19 TMP 1,1-Dichloroethane	20.000	19.569	2.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	20.000	19.346	3.3	100	0.00
21 TMP 2,2-Dichloropropane	20.000	17.724	11.4	100	0.00
22 TMP cis-1,2-Dichloroethene	20.000	19.353	3.2	100	0.00
23 TMP Chloroform	20.000	18.861	5.7	100	0.00
24 TMP 2-Butanone (MEK)	100.000	91.850	8.2	100	0.00
25 TMP t-Amyl methyl ether (TAME)	20.000	19.319	3.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	20.000	18.982	5.1	100	0.00
27 TMP 1,1,1-Trichloroethane	20.000	19.627	1.9	100	0.00
28 TMP 1,1-Dichloropropene	20.000	19.047	4.8	100	0.00
29 TMP Carbon tetrachloride	20.000	20.073	-0.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.333	-3.3	100	0.00
31 TMP Benzene	20.000	19.365	3.2	100	0.00
32 TMP Trichloroethene	20.000	19.305	3.5	100	0.00
33 TMP 1,2-Dichloropropane	20.000	18.751	6.2	100	0.00
34 TMP Bromodichloromethane	20.000	18.979	5.1	100	0.00
35 S Toluene-d8	10.000	9.926	0.7	100	0.00
36 TMP Dibromomethane	20.000	20.136	-0.7	100	0.00
37 TMP 4-Methyl-2-pentanone	100.000	98.234	1.8	100	0.00
38 TMP cis-1,3-Dichloropropene	20.000	19.182	4.1	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	20.000	18.932	5.3	100	0.00
41 TMP trans-1,3-Dichloropropene	20.000	19.505	2.5	100	0.00
42 TMP 1,1,2-Trichloroethane	20.000	19.195	4.0	100	0.00
43 TMP 2-Hexanone	100.000	97.771	2.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	20.000	19.720	1.4	100	0.00
45 TMP Tetrachloroethene	20.000	18.629	6.9	100	0.00
46 TMP Dibromochloromethane	20.000	20.035	-0.2	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	20.000	19.134	4.3	100	0.00
48 TMP Chlorobenzene	20.000	19.471	2.6	100	0.00
49 TMP Ethylbenzene	20.000	19.163	4.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	20.000	19.681	1.6	100	0.00
51 TMP m,p-Xylene	40.000	37.969	5.1	100	0.00
52 TMP o-Xylene	20.000	19.259	3.7	100	0.00
53 TMP Styrene	20.000	19.253	3.7	100	0.00
54 TMP Isopropylbenzene	20.000	19.098	4.5	100	0.00
55 TMP Bromoform	20.000	19.634	1.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.052	-0.5	100	0.00
58 TMP n-Propylbenzene	20.000	19.472	2.6	100	0.00
59 TMP Bromobenzene	20.000	19.854	0.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	20.000	19.197	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	20.000	19.894	0.5	100	0.00
62 TMP 1,2,3-Trichloropropane	20.000	19.669	1.7	100	0.00
63 TMP 2-Chlorotoluene	20.000	19.483	2.6	100	0.00
64 TMP 4-Chlorotoluene	20.000	19.027	4.9	100	0.00
65 TMP tert-Butylbenzene	20.000	19.521	2.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	20.000	19.510	2.4	100	0.00
67 TMP sec-Butylbenzene	20.000	19.824	0.9	100	0.00
68 TMP p-Isopropyltoluene	20.000	19.733	1.3	100	0.00
69 TMP 1,3-Dichlorobenzene	20.000	19.624	1.9	100	0.00
70 TMP 1,4-Dichlorobenzene	20.000	19.537	2.3	100	0.00
71 TMP 1,2-Dichlorobenzene	20.000	19.726	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	20.000	19.964	0.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	20.000	20.297	-1.5	100	0.00
74 TMP Hexachlorobutadiene	20.000	20.013	-0.1	100	0.00
75 TMP Naphthalene	20.000	18.353	8.2	100	0.00
76 TMP 1,2,3-Trichlorobenzene	20.000	20.045	-0.2	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.266	-0.8	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.683	0.7	100	0.00
5 TMP	Chloromethane	0.883	0.845	4.3	100	0.00
6 TMP	Vinyl chloride	0.732	0.724	1.1	100	0.00
7 TMP	Bromomethane	0.368	0.397	-7.9	100	0.00
8 TMP	Chloroethane	0.336	0.325	3.3	100	0.00
9 TMP	Trichlorofluoromethane	0.870	0.833	4.3	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.035	5.4	100	0.00
12 TMP	1,1-Dichloroethene	0.240	0.234	2.5	100	0.00
13 TMP	Hexane	0.434	0.415	4.4	100	0.00
14 TMP	Methylene chloride	0.269	0.261	3.0	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.728	0.7	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.260	4.4	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.901	3.3	100	0.00
19 TMP	1,1-Dichloroethane	0.504	0.493	2.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.286	3.4	100	0.00
21 TMP	2,2-Dichloropropane	0.316	0.280	11.4	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.277	3.1	100	0.00
23 TMP	Chloroform	0.477	0.450	5.7	100	0.00
24 TMP	2-Butanone (MEK)	0.183	0.168	8.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.670	3.5	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.392	5.1	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.432	1.8	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.345	4.7	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.368	-0.3	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP	Benzene	0.999	0.967	3.2	100	0.00
32 TMP	Trichloroethene	0.316	0.305	3.5	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.278	6.1	100	0.00
34 TMP	Bromodichloromethane	0.357	0.339	5.0	100	0.00
35 S	Toluene-d8	0.960	0.953	0.7	100	0.00
36 TMP	Dibromomethane	0.169	0.170	-0.6	100	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.411	4.2	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.858	0.812	5.4	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.484	0.472	2.5	100	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.253	4.2	100	0.00
43 TMP	2-Hexanone	0.335	0.328	2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.463	1.5	100	0.00
45 TMP Tetrachloroethene	0.342	0.319	6.7	100	0.00
46 TMP Dibromochloromethane	0.354	0.354	0.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.313	4.3	100	0.00
48 TMP Chlorobenzene	0.925	0.901	2.6	100	0.00
49 TMP Ethylbenzene	1.611	1.544	4.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.328	1.5	100	0.00
51 TMP m,p-Xylene	0.607	0.576	5.1	100	0.00
52 TMP o-Xylene	0.595	0.573	3.7	100	0.00
53 TMP Styrene	0.973	0.937	3.7	100	0.00
54 TMP Isopropylbenzene	1.564	1.493	4.5	100	0.00
55 TMP Bromoform	0.252	0.248	1.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.849	-0.6	100	0.00
58 TMP n-Propylbenzene	3.281	3.195	2.6	100	0.00
59 TMP Bromobenzene	0.770	0.765	0.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.345	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.694	0.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.576	1.7	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.890	2.6	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.170	4.9	100	0.00
65 TMP tert-Butylbenzene	2.141	2.089	2.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.415	2.5	100	0.00
67 TMP sec-Butylbenzene	3.103	3.076	0.9	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.636	1.3	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.407	1.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.427	2.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.361	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.155	0.0	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.994	-1.4	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.542	0.0	100	0.00
75 TMP Naphthalene	2.597	2.383	8.2	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.906	-0.2	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	46537	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	36436	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19498	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	12360	10.066	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.70%		
30) 1,2-Dichloroethane-d4	4.36	102	2901	10.333	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	103.30%		
35) Toluene-d8	5.98	98	44349	9.926	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	99.30%		
57) 4-Bromofluorobenzene	8.38	95	16547	10.052	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	100.50%		
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.08	85	63589	19.846	ppb	98	
5) Chloromethane	1.22	50	78665	19.148	ppb	95	
6] Vinyl chloride	1.29	62	67404	19.794	ppb	96	
7) Bromomethane	1.53	94	36911	21.535	ppb	71	
8] Chloroethane	1.60	64	30285	19.344	ppb	96	
9) Trichlorofluoromethane	1.79	101	77534	19.153	ppb	95	
10) 2-Propanol	2.40	45	206	No Calib			
11) Acetone	2.26	58	16444	94.914	ppb	91	
12] 1,1-Dichloroethene	2.19	96	21753	19.447	ppb	98	
13) Hexane	3.05	57	38661	19.153	ppb	98	
14) Methylene chloride	2.60	84	24299	19.409	ppb	97	
15) t-Butyl alcohol (TBA)	2.73	59	21321	99.207	ppb	98	
16] Methyl t-butyl ether (...)	2.84	73	67723	19.849	ppb	100	
17] trans-1,2-Dichloroethene	2.83	96	24187	19.091	ppb	84	
18) Diisopropyl ether (OIPE)	3.24	45	83844	19.331	ppb	98	
19] 1,1-Dichloroethane	3.18	63	45923	19.569	ppb	98	
20) Ethyl t-butyl ether (E...)	3.55	87	26650	19.346	ppb	97	
21) 2,2-Dichloropropane	3.66	77	26063	17.724	ppb	90	
22] cis-1,2-Dichloroethene	3.67	96	25792	19.353	ppb	90	
23) Chloroform	3.94	83	41867	18.861	ppb	95	
24) 2-Butanone (MEK)	3.70	43	78173	91.850	ppb	99	
25) t-Amyl methyl ether (T...)	4.49	73	62350	19.319	ppb	98	
26] 1,2-Dichloroethane (EDC)	4.41	62	36513	18.982	ppb	97	
27] 1,1,1-Trichloroethane	4.08	97	40205	19.627	ppb	95	
28) 1,1-Dichloropropene	4.22	75	32106	19.047	ppb	98	
29) Carbon tetrachloride	4.21	117	34292	20.073	ppb	95	
31] Benzene	4.39	78	90028	19.365	ppb	94	
32] Trichloroethene	4.93	95	28352	19.305	ppb	91	
33] 1,2-Dichloropropane	5.13	63	25854	18.751	ppb	100	
34) Bromodichloromethane	5.37	83	31570	18.979	ppb	96	
36) Dibromomethane	5.23	93	15827	20.136	ppb	94	

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

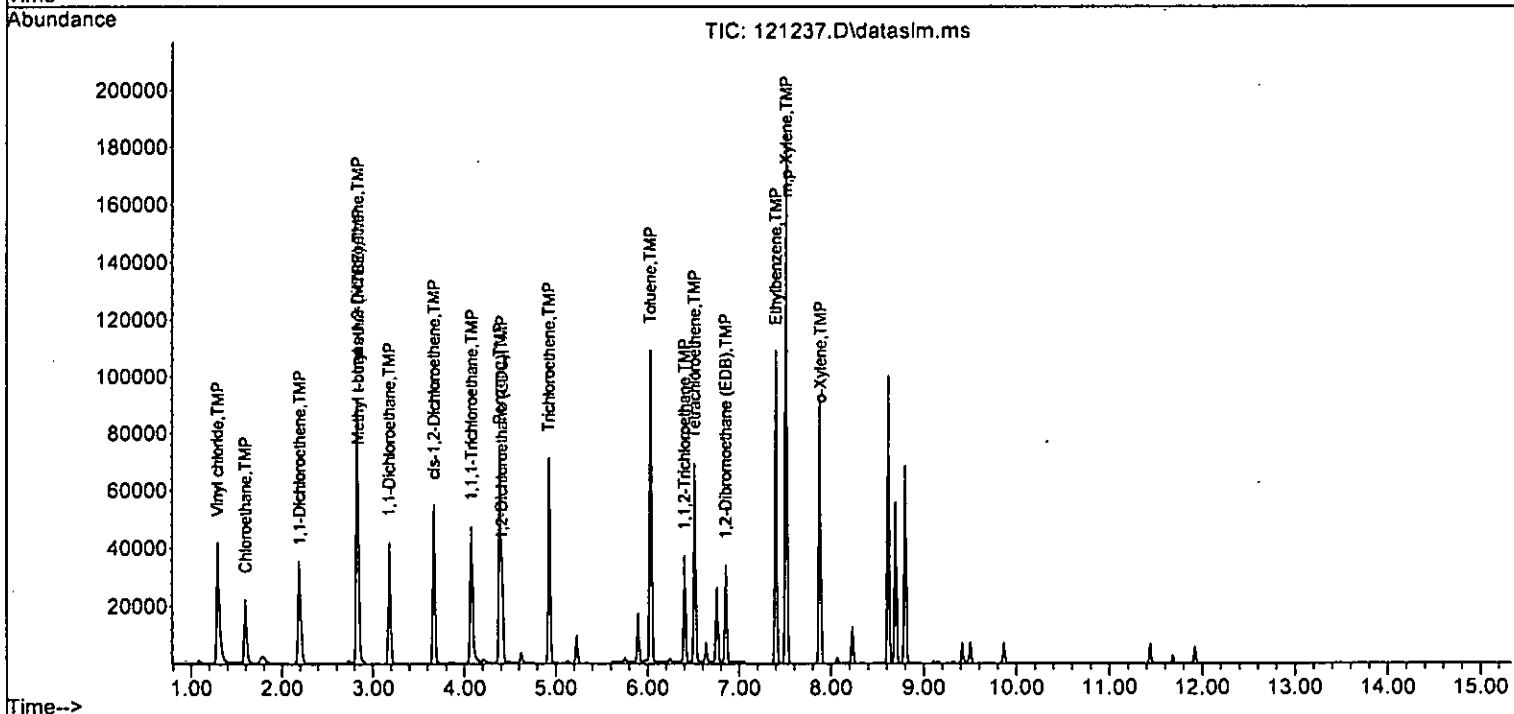
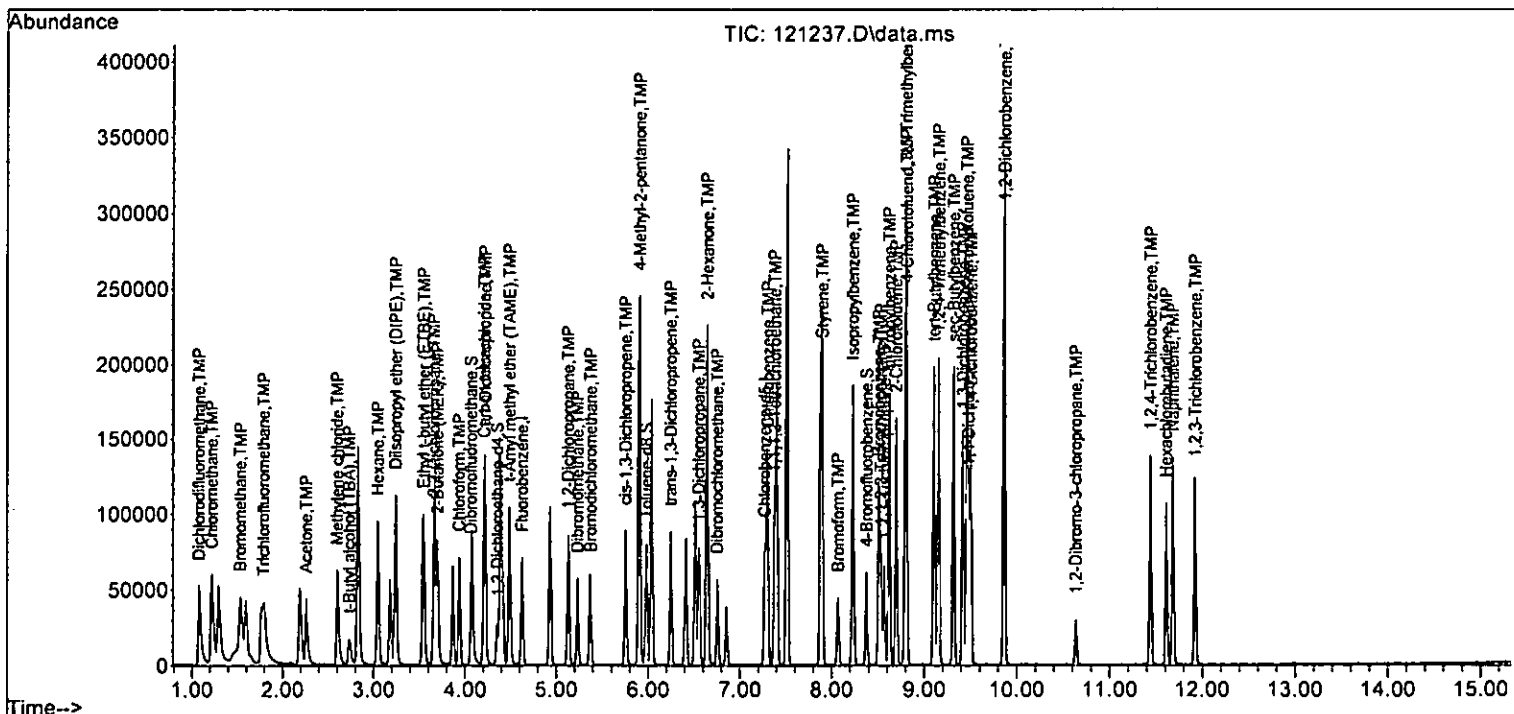
Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	23856	98.234	ppb	89
38) cis-1,3-Dichloropropene	5.75	75	38257	19.182	ppb	98
40] Toluene	6.03	92	59157	18.932	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	34368	19.505	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	18444	19.195	ppb	97
43) 2-Hexanone	6.64	43	119481	97.771	ppb	97
44) 1,3-Dichloropropane	6.55	76	33750	19.720	ppb	98
45] Tetrachloroethene	6.51	164	23226	18.629	ppb	99
46) Dibromochloromethane	6.75	129	25821	20.035	ppb	98
47] 1,2-Dibromoethane (EDB)	6.85	107	22821	19.134	ppb	99
48) Chlorobenzene	7.30	112	65636	19.471	ppb	98
49] Ethylbenzene	7.40	91	112510	19.163	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	23872	19.681	ppb	96
51] m,p-Xylene	7.51	106	84021	37.969	ppb #	71
52] o-Xylene	7.88	106	41746	19.259	ppb	98
53) Styrene	7.90	104	68247	19.253	ppb	98
54) Isopropylbenzene	8.23	105	108826	19.098	ppb	99
55) Bromoform	8.07	173	18043	19.634	ppb	91
58) n-Propylbenzene	8.62	91	124581	19.472	ppb	97
59) Bromobenzene	8.51	156	29827	19.854	ppb	96
60) 1,3,5-Trimethylbenzene	8.80	105	91430	19.197	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	27062	19.894	ppb	94
62) 1,2,3-Trichloropropane	8.57	75	22468	19.669	ppb	96
63) 2-Chlorotoluene	8.70	91	73715	19.483	ppb	100
64) 4-Chlorotoluene	8.81	91	84617	19.027	ppb	100
65) tert-Butylbenzene	9.10	119	81481	19.521	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	94194	19.510	ppb	100
67) sec-Butylbenzene	9.32	105	119935	19.824	ppb	98
68) p-Isopropyltoluene	9.46	119	102802	19.733	ppb	99
69) 1,3-Dichlorobenzene	9.42	146	54872	19.624	ppb	95
70) 1,4-Dichlorobenzene	9.51	146	55647	19.537	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	53070	19.726	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.63	75	6031	19.964	ppb	97
73) 1,2,4-Trichlorobenzene	11.44	180	38775	20.297	ppb	100
74) Hexachlorobutadiene	11.61	225	21132	20.013	ppb	96
75) Naphthalene	11.68	128	92933	18.353	ppb	96
76) 1,2,3-Trichlorobenzene	11.92	180	35330	20.045	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.932	0.7	100	0.00
4 TMP Dichlorodifluoromethane	50.000	50.117	-0.2	100	0.00
5 TMP Chloromethane	50.000	48.681	2.6	100	0.00
6 TMP Vinyl chloride	50.000	50.308	-0.6	100	0.00
7 TMP Bromomethane	50.000	52.732	-5.5	100	0.00
8 TMP Chloroethane	50.000	47.793	4.4	100	0.00
9 TMP Trichlorofluoromethane	50.000	50.171	-0.3	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-0.02
11 TMP Acetone	250.000	234.746	6.1	100	0.00
12 TMP 1,1-Dichloroethene	50.000	49.455	1.1	100	0.00
13 TMP Hexane	50.000	48.989	2.0	100	0.00
14 TMP Methylene chloride	50.000	48.544	2.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	250.000	241.695	3.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	50.000	49.919	0.2	100	0.00
17 TMP trans-1,2-Dichloroethene	50.000	47.920	4.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	50.000	49.444	1.1	100	0.00
19 TMP 1,1-Dichloroethane	50.000	49.817	0.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	50.000	50.377	-0.8	100	0.00
21 TMP 2,2-Dichloropropane	50.000	47.364	5.3	100	0.00
22 TMP cis-1,2-Dichloroethene	50.000	49.369	1.3	100	0.00
23 TMP Chloroform	50.000	47.951	4.1	100	0.00
24 TMP 2-Butanone (MEK)	250.000	233.064	6.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	50.000	49.524	1.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	50.000	48.150	3.7	100	0.00
27 TMP 1,1,1-Trichloroethane	50.000	50.544	-1.1	100	0.00
28 TMP 1,1-Dichloropropene	50.000	48.794	2.4	100	0.00
29 TMP Carbon tetrachloride	50.000	51.607	-3.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.036	-0.4	100	0.00
31 TMP Benzene	50.000	49.122	1.8	100	0.00
32 TMP Trichloroethene	50.000	49.788	0.4	100	0.00
33 TMP 1,2-Dichloropropane	50.000	48.366	3.3	100	0.00
34 TMP Bromodichloromethane	50.000	49.586	0.8	100	0.00
35 S Toluene-d8	10.000	10.306	-3.1	100	0.00
36 TMP Dibromomethane	50.000	51.229	-2.5	100	0.00
37 TMP 4-Methyl-2-pentanone	250.000	247.845	0.9	100	0.00
38 TMP cis-1,3-Dichloropropene	50.000	48.588	2.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	50.000	47.454	5.1	100	0.00
41 TMP trans-1,3-Dichloropropene	50.000	49.657	0.7	100	0.00
42 TMP 1,1,2-Trichloroethane	50.000	48.837	2.3	100	0.00
43 TMP 2-Hexanone	250.000	240.345	3.9	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	50.000	49.844	0.3	100	0.00
45 TMP Tetrachloroethene	50.000	46.828	6.3	100	0.00
46 TMP Dibromochloromethane	50.000	49.643	0.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	50.000	48.523	3.0	100	0.00
48 TMP Chlorobenzene	50.000	48.429	3.1	100	0.00
49 TMP Ethylbenzene	50.000	47.821	4.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	50.000	49.496	1.0	100	0.00
51 TMP m,p-Xylene	100.000	94.459	5.5	100	0.00
52 TMP o-Xylene	50.000	47.696	4.6	100	0.00
53 TMP Styrene	50.000	48.347	3.3	100	0.00
54 TMP Isopropylbenzene	50.000	48.121	3.8	100	0.00
55 TMP Bromoform	50.000	50.911	-1.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.701	3.0	100	0.00
58 TMP n-Propylbenzene	50.000	48.518	3.0	100	0.00
59 TMP Bromobenzene	50.000	49.460	1.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	50.000	47.614	4.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	50.000	48.728	2.5	100	0.00
62 TMP 1,2,3-Trichloropropane	50.000	48.135	3.7	100	0.00
63 TMP 2-Chlorotoluene	50.000	47.863	4.3	100	0.00
64 TMP 4-Chlorotoluene	50.000	47.608	4.8	100	0.00
65 TMP tert-Butylbenzene	50.000	49.036	1.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	50.000	48.151	3.7	100	0.00
67 TMP sec-Butylbenzene	50.000	49.132	1.7	100	0.00
68 TMP p-Isopropyltoluene	50.000	49.744	0.5	100	0.00
69 TMP 1,3-Dichlorobenzene	50.000	49.230	1.5	100	0.00
70 TMP 1,4-Dichlorobenzene	50.000	48.438	3.1	100	0.00
71 TMP 1,2-Dichlorobenzene	50.000	48.960	2.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	50.000	49.268	1.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	50.000	51.142	-2.3	100	0.00
74 TMP Hexachlorobutadiene	50.000	50.362	-0.7	100	0.00
75 TMP Naphthalene	50.000	45.598	8.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	50.000	50.171	-0.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.262	0.8	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.690	-0.3	100	0.00
5 TMP Chloromethane	0.883	0.860	2.6	100	0.00
6 TMP Vinyl chloride	0.732	0.736	-0.5	100	0.00
7 TMP Bromomethane	0.368	0.388	-5.4	100	0.00
8 TMP Chloroethane	0.336	0.322	4.2	100	0.00
9 TMP Trichlorofluoromethane	0.870	0.873	-0.3	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-0.02
11 TMP Acetone	0.037	0.035	5.4	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.238	0.8	100	0.00
13 TMP Hexane	0.434	0.425	2.1	100	0.00
14 TMP Methylene chloride	0.269	0.261	3.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.732	0.1	100	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.261	4.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.922	1.1	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.502	0.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.298	-0.7	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.299	5.4	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.283	1.0	100	0.00
23 TMP Chloroform	0.477	0.457	4.2	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.170	7.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.687	1.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.398	3.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.445	-1.1	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.353	2.5	100	0.00
29 TMP Carbon tetrachloride	0.367	0.379	-3.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP Benzene	0.999	0.981	1.8	100	0.00
32 TMP Trichloroethene	0.316	0.314	0.6	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.287	3.0	100	0.00
34 TMP Bromodichloromethane	0.357	0.354	0.8	100	0.00
35 S Toluene-d8	0.960	0.990	-3.1	100	0.00
36 TMP Dibromomethane	0.169	0.173	-2.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.052	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.416	3.0	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.814	5.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.480	0.8	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.258	2.3	100	0.00
43 TMP 2-Hexanone	0.335	0.322	3.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.468	0.4	100	0.00
45 TMP Tetrachloroethene	0.342	0.320	6.4	100	0.00
46 TMP Dibromochloromethane	0.354	0.351	0.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.318	2.8	100	0.00
48 TMP Chlorobenzene	0.925	0.896	3.1	100	0.00
49 TMP Ethylbenzene	1.611	1.541	4.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.330	0.9	100	0.00
51 TMP m,p-Xylene	0.607	0.574	5.4	100	0.00
52 TMP o-Xylene	0.595	0.567	4.7	100	0.00
53 TMP Styrene	0.973	0.941	3.3	100	0.00
54 TMP Isopropylbenzene	1.564	1.505	3.8	100	0.00
55 TMP Bromoform	0.252	0.257	-2.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.819	3.0	100	0.00
58 TMP n-Propylbenzene	3.281	3.184	3.0	100	0.00
59 TMP Bromobenzene	0.770	0.762	1.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.326	4.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.680	2.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.564	3.8	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.858	4.3	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.172	4.8	100	0.00
65 TMP tert-Butylbenzene	2.141	2.099	2.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.385	3.7	100	0.00
67 TMP sec-Butylbenzene	3.103	3.049	1.7	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.658	0.5	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.412	1.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.415	3.1	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.351	2.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.153	1.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.002	-2.2	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.545	-0.6	100	0.00
75 TMP Naphthalene	2.597	2.368	8.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.907	-0.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	46625	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	37972	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	20328	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	12218	9.932	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.30%
30) 1,2-Dichloroethane-d4	4.35	102	2823	10.036	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	100.40%
35) Toluene-d8	5.98	98	46137	10.306	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	103.10%
57) 4-Bromofluorobenzene	8.38	95	16649	9.701	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	97.00%
Target Compounds						
2) Ethanol	0.00		0	N.D.		Qvalue
4) Dichlorodifluoromethane	1.08	85	160882	50.117	ppb	99
5) Chloromethane	1.22	50	200371	48.681	ppb	99
6] Vinyl chloride	1.29	62	171639	50.308	ppb	94
7) Bromomethane	1.53	94	90556	52.732	ppb	68
8] Chloroethane	1.59	64	74967	47.793	ppb	99
9) Trichlorofluoromethane	1.79	101	203487	50.171	ppb	99
10) 2-Propanol	2.39	45	405	No Calib		
11) Acetone	2.25	58	40747	234.746	ppb	91
12] 1,1-Dichloroethene	2.19	96	55425	49.455	ppb	85
13) Hexane	3.05	57	99072	48.989	ppb	98
14) Methylene chloride	2.60	84	60890	48.544	ppb	97
15) t-Butyl alcohol (TBA)	2.73	59	52042	241.695	ppb	96
16] Methyl t-butyl ether (...)	2.83	73	170643	49.919	ppb	97
17] trans-1,2-Dichloroethene	2.82	96	60828	47.920	ppb	97
18) Diisopropyl ether (DIPE)	3.24	45	214860	49.444	ppb	99
19] 1,1-Dichloroethane	3.18	63	117130	49.817	ppb	100
20) Ethyl t-butyl ether (E...)	3.54	87	69528	50.377	ppb	97
21) 2,2-Dichloropropane	3.66	77	69780	47.364	ppb	95
22] cis-1,2-Dichloroethene	3.67	96	65920	49.369	ppb	86
23) Chloroform	3.94	83	106640	47.951	ppb	95
24) 2-Butanone (MEK)	3.70	43	198735	233.064	ppb	99
25) t-Amyl methyl ether (T...)	4.49	73	160139	49.524	ppb	97
26] 1,2-Dichloroethane (EDC)	4.41	62	92792	48.150	ppb	97
27] 1,1,1-Trichloroethane	4.08	97	103733	50.544	ppb	93
28) 1,1-Dichloropropene	4.22	75	82405	48.794	ppb	97
29) Carbon tetrachloride	4.21	117	88329	51.607	ppb	100
31] Benzene	4.39	78	228800	49.122	ppb	95
32] Trichloroethene	4.93	95	73258	49.788	ppb	88
33) 1,2-Dichloropropane	5.13	63	66814	48.366	ppb	98
34) Bromodichloromethane	5.37	83	82637	49.586	ppb	87
36) Dibromomethane	5.22	93	40342	51.229	ppb	88

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

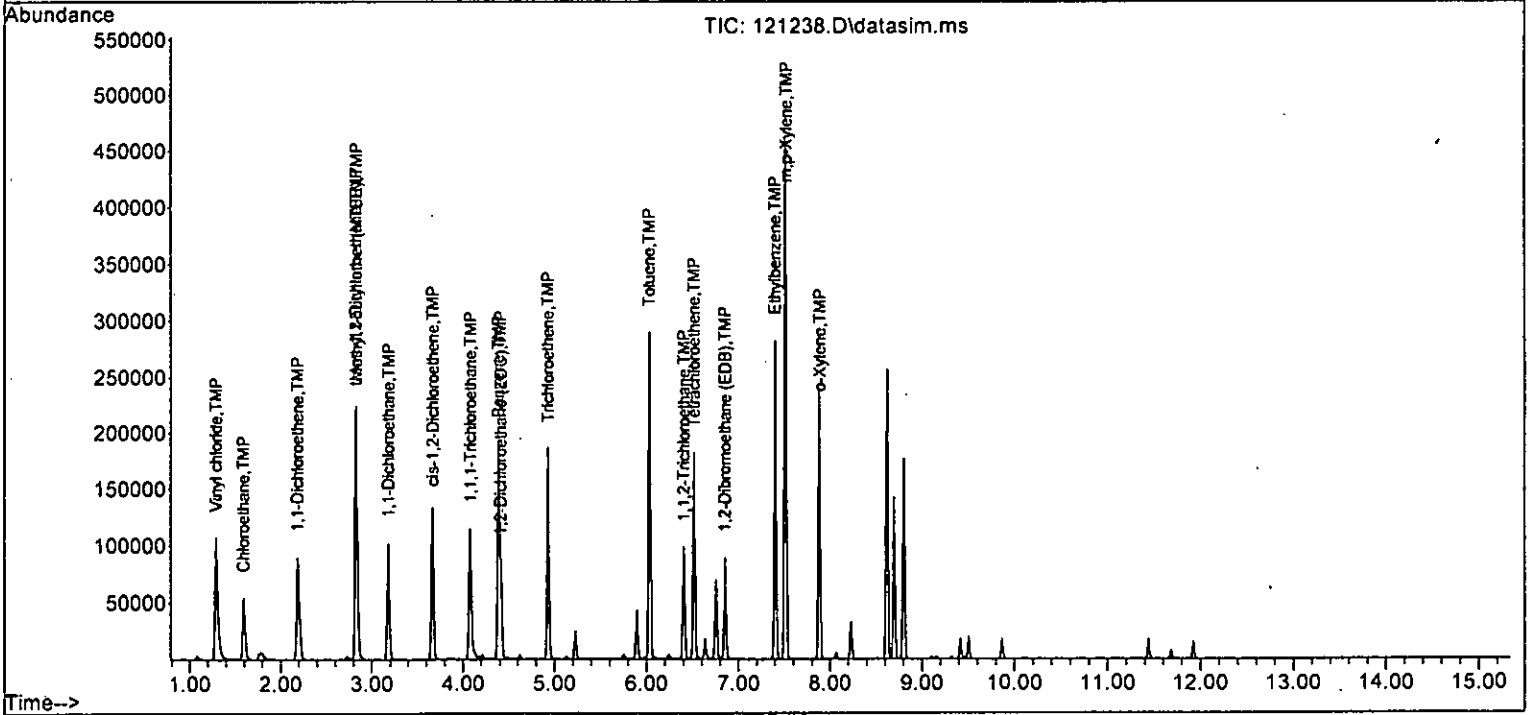
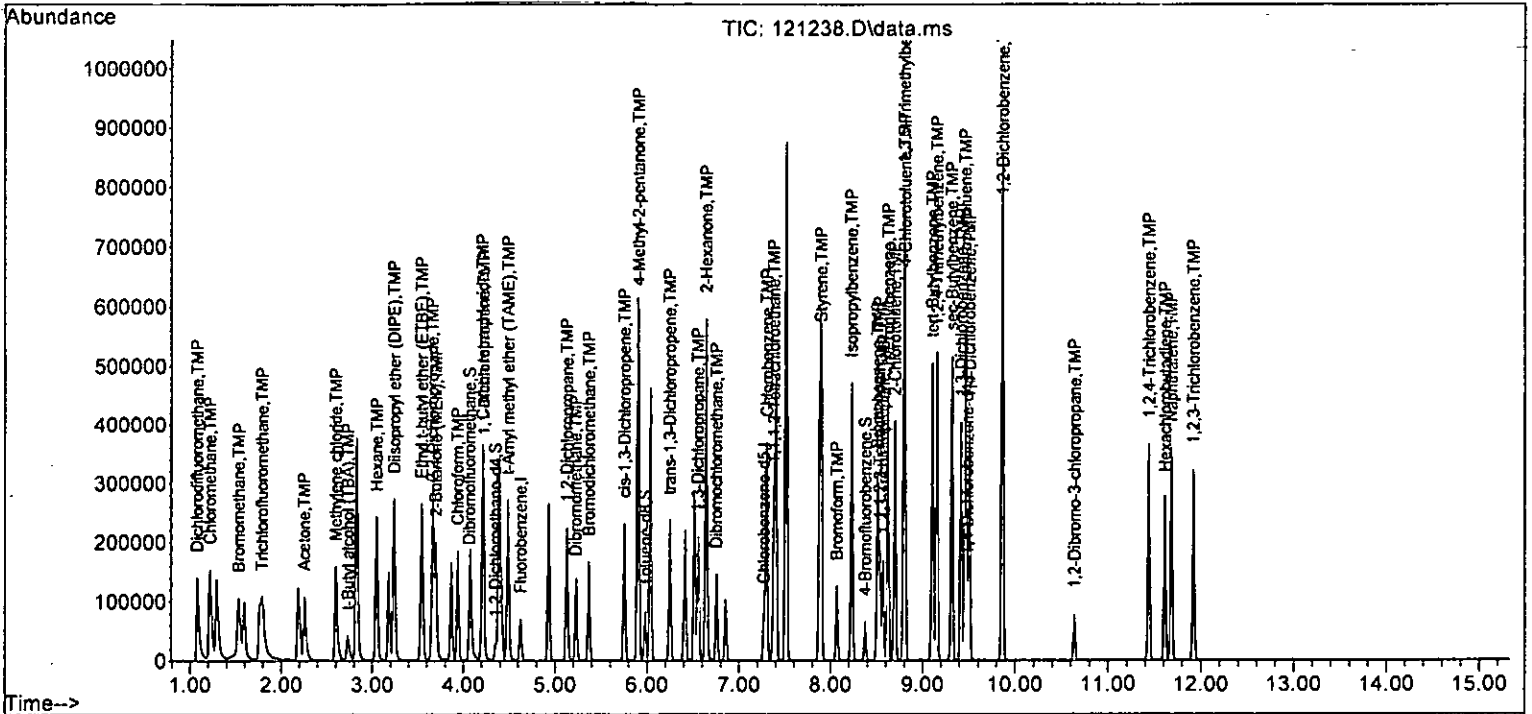
Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	60303	247.845	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	97086	48.588	ppb	99
40] Toluene	6.03	92	154527	47.454	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	91187	49.657	ppb	97
42] 1,1,2-Trichloroethane	6.40	83	48904	48.837	ppb	97
43) 2-Hexanone	6.64	43	306095	240.345	ppb	96
44) 1,3-Dichloropropane	6.55	76	88903	49.844	ppb	96
45] Tetrachloroethene	6.51	164	60846	46.828	ppb	98
46) Dibromochloromethane	6.75	129	66676	49.643	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	60311	48.523	ppb	99
48) Chlorobenzene	7.30	112	170131	48.429	ppb	99
49] Ethylbenzene	7.40	91	292600	47.821	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	62567	49.496	ppb	97
51] m,p-Xylene	7.52	106	217837	94.459	ppb	100
52] o-Xylene	7.89	106	107745	47.696	ppb	98
53) Styrene	7.90	104	178605	48.347	ppb	98
54) Isopropylbenzene	8.23	105	285775	48.121	ppb	98
55) Bromoform	8.07	173	48759	50.911	ppb	92
58) n-Propylbenzene	8.63	91	323625	48.518	ppb	95
59) Bromobenzene	8.51	156	77466	49.460	ppb	98
60) 1,3,5-Trimethylbenzene	8.80	105	236431	47.614	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.53	83	69108	48.728	ppb	97
62) 1,2,3-Trichloropropane	8.57	75	57325	48.135	ppb	96
63) 2-Chlorotoluene	8.70	91	188806	47.863	ppb	98
64) 4-Chlorotoluene	8.81	91	220731	47.608	ppb	97
65) tert-Butylbenzene	9.10	119	213389	49.036	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	242363	48.151	ppb	97
67) sec-Butylbenzene	9.32	105	309899	49.132	ppb	99
68) p-Isopropyltoluene	9.46	119	270183	49.744	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	143514	49.230	ppb	98
70) 1,4-Dichlorobenzene	9.51	146	143839	48.438	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	137330	48.960	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.64	75	15517	49.268	ppb	86
73) 1,2,4-Trichlorobenzene	11.44	180	101859	51.142	ppb	99
74) Hexachlorobutadiene	11.61	225	55442	50.362	ppb	91
75) Naphthalene	11.68	128	240720	45.598	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	92190	50.171	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

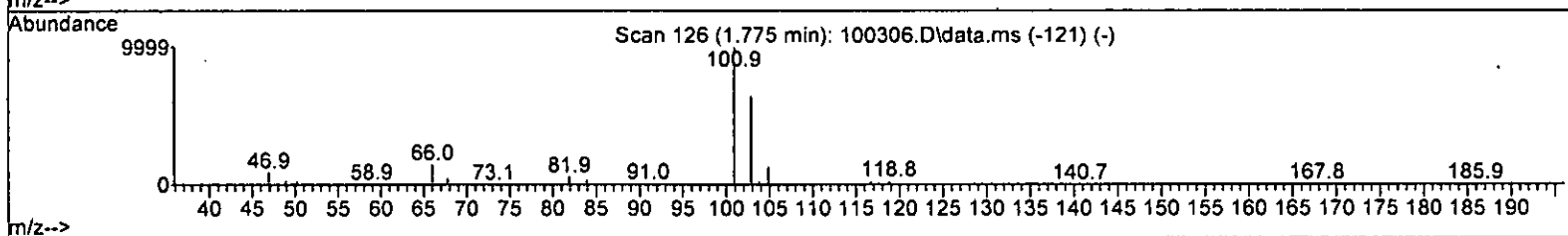
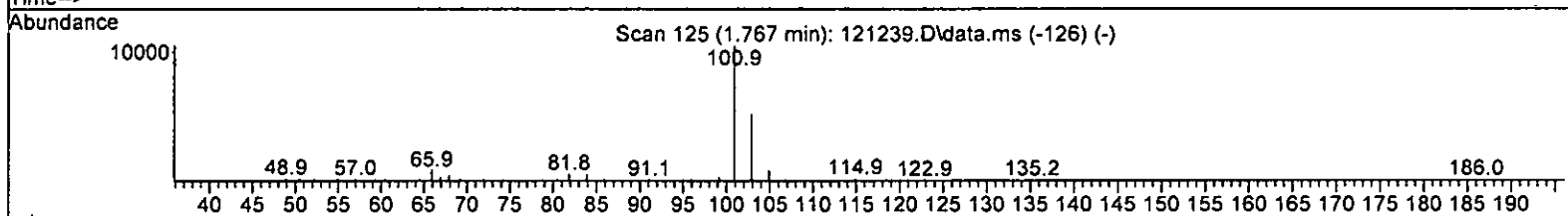
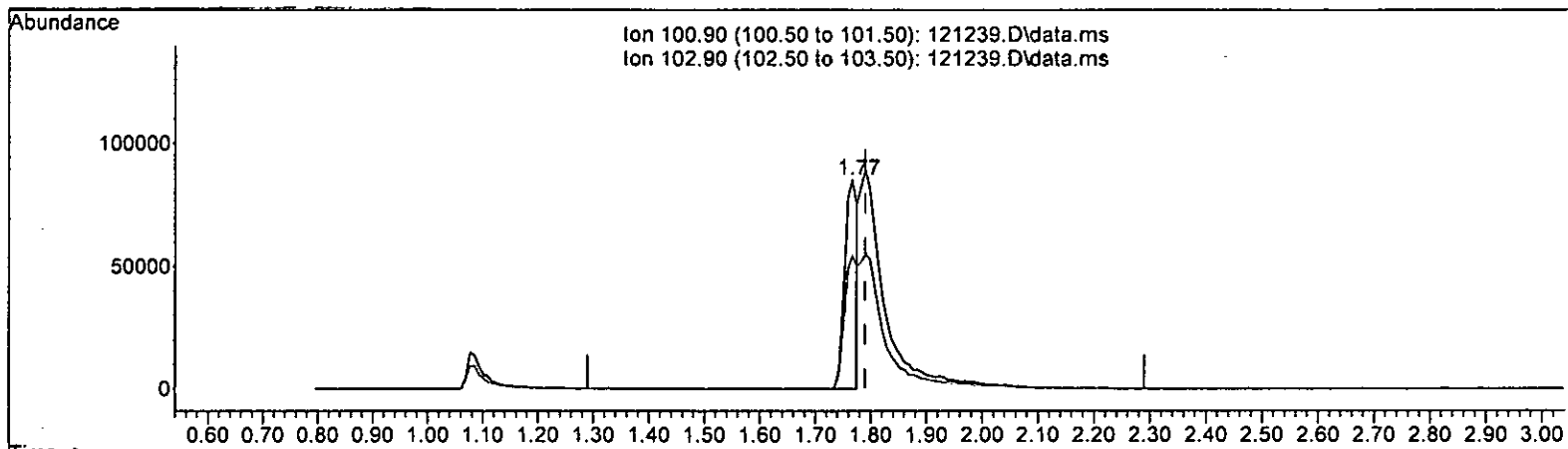
Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-25S  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121239.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 33.644 ppb

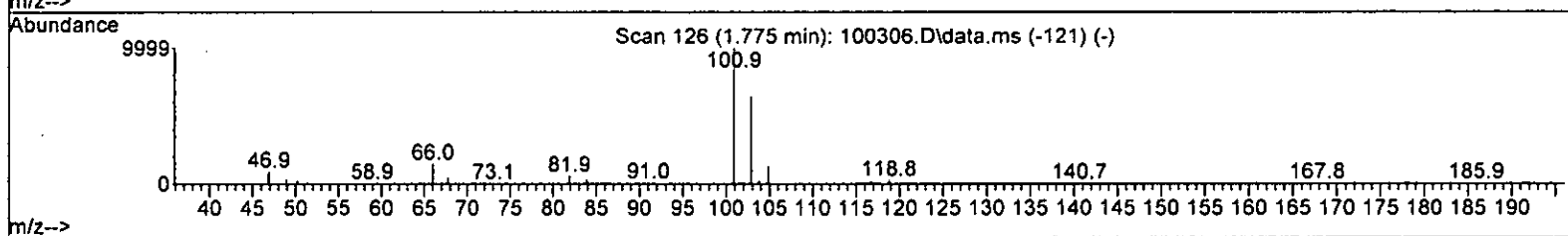
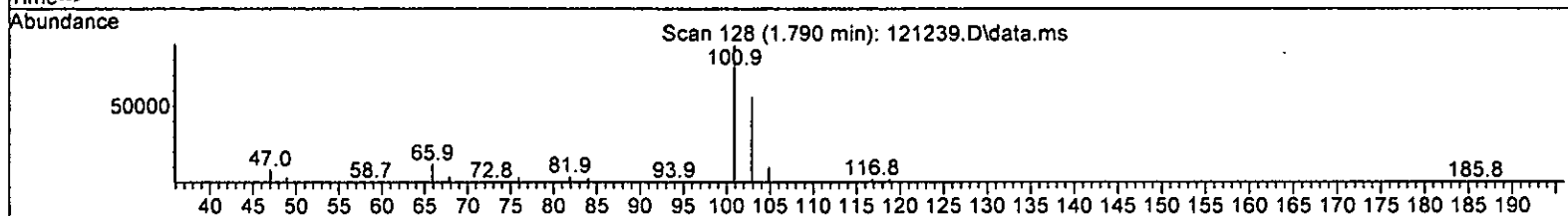
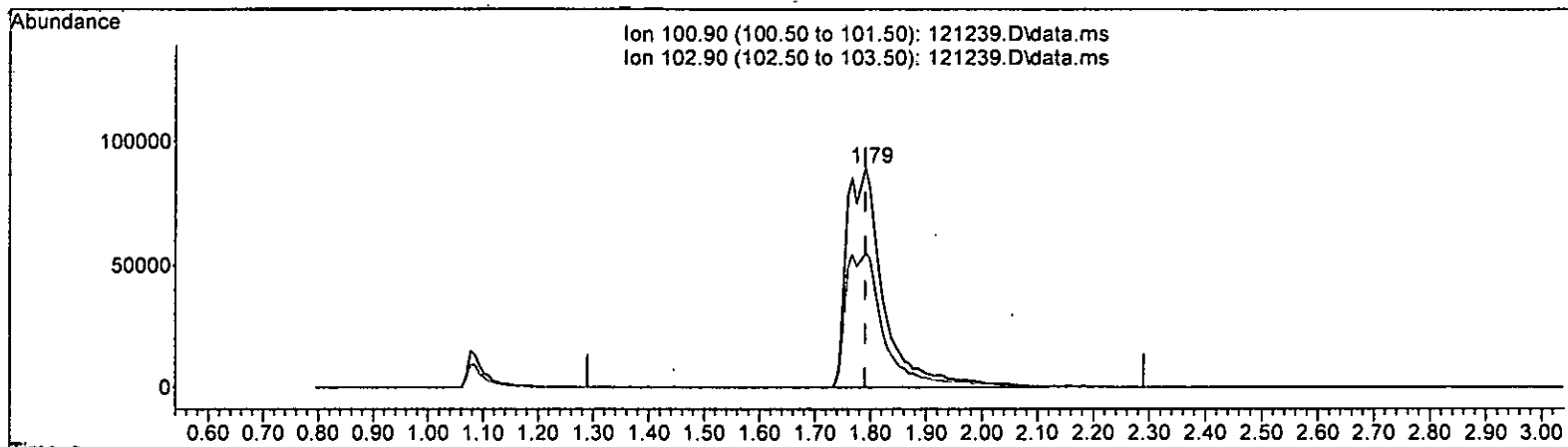
response	135279	
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	62.70	63.95
0.00	0.00	0.00
0.00	0.00	0.00

*17.15 pm*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121239.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.790min (+ 0.000) 106.307 ppb m

response 427456

Ion	Exp%	Act%
100.90	100.00	100.00
102.90	62.70	61.61
0.00	0.00	0.00
0.00	0.00	0.00

*17/15 DM*



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.02
3 S Dibromofluoromethane	10.000	10.279	-2.8	100	0.00
4 TMP Dichlorodifluoromethane	100.000	103.087	-3.1	100	0.00
5 TMP Chloromethane	100.000	98.069	1.9	100	0.00
6 TMP Vinyl chloride	100.000	100.209	-0.2	100	0.00
7 TMP Bromomethane	100.000	104.675	-4.7	100	0.00
8 TMP Chloroethane	100.000	100.075	-0.1	100	0.00
9 TMP Trichlorofluoromethane	100.000	106.307	-6.3	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-0.02
11 TMP Acetone	500.000	491.620	1.7	100	0.00
12 TMP 1,1-Dichloroethene	100.000	99.371	0.6	100	0.00
13 TMP Hexane	100.000	96.351	3.6	100	0.00
14 TMP Methylene chloride	100.000	93.876	6.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	500.000	492.995	1.4	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	100.000	98.763	1.2	100	0.00
17 TMP trans-1,2-Dichloroethene	100.000	94.626	5.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	100.000	97.185	2.8	100	0.00
19 TMP 1,1-Dichloroethane	100.000	98.632	1.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	100.000	100.902	-0.9	100	0.00
21 TMP 2,2-Dichloropropane	100.000	98.227	1.8	100	0.00
22 TMP cis-1,2-Dichloroethene	100.000	97.600	2.4	100	0.00
23 TMP Chloroform	100.000	95.586	4.4	100	0.00
24 TMP 2-Butanone (MEK)	500.000	489.680	2.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	100.000	99.045	1.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	100.000	95.242	4.8	100	0.00
27 TMP 1,1,1-Trichloroethane	100.000	100.907	-0.9	100	0.00
28 TMP 1,1-Dichloropropene	100.000	96.971	3.0	100	0.00
29 TMP Carbon tetrachloride	100.000	105.419	-5.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.126	-1.3	100	0.00
31 TMP Benzene	100.000	97.414	2.6	100	0.00
32 TMP Trichloroethene	100.000	100.492	-0.5	100	0.00
33 TMP 1,2-Dichloropropane	100.000	97.766	2.2	100	0.00
34 TMP Bromodichloromethane	100.000	99.778	0.2	100	0.00
35 S Toluene-d8	10.000	9.928	0.7	100	0.00
36 TMP Dibromomethane	100.000	101.336	-1.3	100	0.00
37 TMP 4-Methyl-2-pentanone	500.000	480.685	3.9	100	0.00
38 TMP cis-1,3-Dichloropropene	100.000	97.638	2.4	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	100.000	96.307	3.7	100	0.00
41 TMP trans-1,3-Dichloropropene	100.000	101.229	-1.2	100	0.00
42 TMP 1,1,2-Trichloroethane	100.000	98.144	1.9	100	0.00
43 TMP 2-Hexanone	500.000	461.458	7.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	100.000	98.108	1.9	100	0.00
45 TMP Tetrachloroethene	100.000	95.015	5.0	100	0.00
46 TMP Dibromochloromethane	100.000	103.069	-3.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	100.000	98.059	1.9	100	0.00
48 TMP Chlorobenzene	100.000	99.732	0.3	100	0.00
49 TMP Ethylbenzene	100.000	96.325	3.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	100.000	104.318	-4.3	100	0.00
51 TMP m,p-Xylene	200.000	189.776	5.1	100	0.00
52 TMP o-Xylene	100.000	96.435	3.6	100	0.00
53 TMP Styrene	100.000	98.020	2.0	100	0.00
54 TMP Isopropylbenzene	100.000	97.670	2.3	100	0.00
55 TMP Bromoform	100.000	104.341	-4.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.021	-0.2	100	0.00
58 TMP n-Propylbenzene	100.000	96.073	3.9	100	0.00
59 TMP Bromobenzene	100.000	98.094	1.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	100.000	95.787	4.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	100.000	94.762	5.2	100	0.00
62 TMP 1,2,3-Trichloropropane	100.000	93.177	6.8	100	0.00
63 TMP 2-Chlorotoluene	100.000	96.010	4.0	100	0.00
64 TMP 4-Chlorotoluene	100.000	94.476	5.5	100	0.00
65 TMP tert-Butylbenzene	100.000	98.702	1.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	100.000	96.517	3.5	100	0.00
67 TMP sec-Butylbenzene	100.000	97.977	2.0	100	0.00
68 TMP p-Isopropyltoluene	100.000	99.887	0.1	100	0.00
69 TMP 1,3-Dichlorobenzene	100.000	96.675	3.3	100	0.00
70 TMP 1,4-Dichlorobenzene	100.000	95.298	4.7	100	0.00
71 TMP 1,2-Dichlorobenzene	100.000	96.795	3.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	100.000	99.737	0.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	100.000	104.517	-4.5	100	0.00
74 TMP Hexachlorobutadiene	100.000	101.761	-1.8	100	0.00
75 TMP Naphthalene	100.000	93.202	6.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	100.000	103.850	-3.8	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAI 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	100	0.02
3 S	Dibromofluoromethane	0.264	0.271	-2.7	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.710	-3.2	100	0.00
5 TMP	Chloromethane	0.883	0.866	1.9	100	0.00
6 TMP	Vinyl chloride	0.732	0.733	-0.1	100	0.00
7 TMP	Bromomethane	0.368	0.386	-4.9	100	0.00
8 TMP	Chloroethane	0.336	0.337	-0.3	100	0.00
9 TMP	Trichlorofluoromethane	0.870	0.925	-6.3	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-0.02
11 TMP	Acetone	0.037	0.037	0.0	100	0.00
12 TMP	1,1-Dichloroethene	0.240	0.239	0.4	100	0.00
13 TMP	Hexane	0.434	0.418	3.7	100	0.00
14 TMP	Methylene chloride	0.269	0.253	5.9	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.724	1.2	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.258	5.1	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.906	2.8	100	0.00
19 TMP	1,1-Dichloroethane	0.504	0.497	1.4	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.299	-1.0	100	0.00
21 TMP	2,2-Dichloropropane	0.316	0.310	1.9	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.280	2.1	100	0.00
23 TMP	Chloroform	0.477	0.456	4.4	100	0.00
24 TMP	2-Butanone (MEK)	0.183	0.179	2.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.687	1.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.394	4.6	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.444	-0.9	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.351	3.0	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.387	-5.4	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	0.999	0.973	2.6	100	0.00
32 TMP	Trichloroethene	0.316	0.317	-0.3	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.290	2.0	100	0.00
34 TMP	Bromodichloromethane	0.357	0.357	0.0	100	0.00
35 S	Toluene-d8	0.960	0.953	0.7	100	0.00
36 TMP	Dibromomethane	0.169	0.171	-1.2	100	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.050	3.8	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.418	2.6	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.858	0.826	3.7	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.484	0.490	-1.2	100	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.259	1.9	100	0.00
43 TMP	2-Hexanone	0.335	0.310	7.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.461	1.9	100	0.00
45 TMP Tetrachloroethene	0.342	0.325	5.0	100	0.00
46 TMP Dibromochloromethane	0.354	0.365	-3.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.321	1.8	100	0.00
48 TMP Chlorobenzene	0.925	0.923	0.2	100	0.00
49 TMP Ethylbenzene	1.611	1.552	3.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.347	-4.2	100	0.00
51 TMP m,p-Xylene	0.607	0.576	5.1	100	0.00
52 TMP o-Xylene	0.595	0.574	3.5	100	0.00
53 TMP Styrene	0.973	0.954	2.0	100	0.00
54 TMP Isopropylbenzene	1.564	1.528	2.3	100	0.00
55 TMP Bromoform	0.252	0.263	-4.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.846	-0.2	100	0.00
58 TMP n-Propylbenzene	3.281	3.152	3.9	100	0.00
59 TMP Bromobenzene	0.770	0.756	1.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.340	4.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.661	5.3	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.546	6.8	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.863	4.0	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.155	5.5	100	0.00
65 TMP tert-Butylbenzene	2.141	2.113	1.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.390	3.5	100	0.00
67 TMP sec-Butylbenzene	3.103	3.040	2.0	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.669	0.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.386	3.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.392	4.7	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.336	3.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.155	0.0	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.024	-4.5	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.551	-1.7	100	0.00
75 TMP Naphthalene	2.597	2.420	6.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.939	-3.9	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	46224	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	36627	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19904	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	12536	10.279	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.80%
30) 1,2-Dichloroethane-d4	4.36	102	2824	10.126	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	101.30%
35) Toluene-d8	5.98	98	44060	9.928	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	99.30%
57) 4-Bromofluorobenzene	8.38	95	16839	10.021	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	100.20%
Target Compounds						
						Qvalue
2) Ethanol	1.88	45	55	No Calib		
4) Dichlorodifluoromethane	1.08	85	328077	103.087	ppb	99
5) Chloromethane	1.22	50	400177	98.069	ppb	99
6) Vinyl chloride	1.29	62	338951	100.209	ppb	97
7) Bromomethane	1.53	94	178210	104.675	ppb	67
8) Chloroethane	1.59	64	155625	100.075	ppb	100
9) Trichlorofluoromethane	1.79	101	427456m	106.307	ppb	
10) 2-Propanol	2.39	45	473	No Calib		
11) Acetone	2.25	58	84601	491.620	ppb	96
12) 1,1-Dichloroethene	2.18	96	110409	99.371	ppb	# 80
13) Hexane	3.05	57	193177	96.351	ppb	98
14) Methylene chloride	2.60	84	116739	93.876	ppb	96
15) t-Butyl alcohol (TBA)	2.73	59	105239	492.995	ppb	98
16) Methyl t-butyl ether (...)	2.83	73	334705	98.763	ppb	96
17) trans-1,2-Dichloroethene	2.82	96	119081	94.626	ppb	100
18) Diisopropyl ether (DIPE)	3.24	45	418686	97.185	ppb	97
19) 1,1-Dichloroethane	3.18	63	229909	98.632	ppb	99
20) Ethyl t-butyl ether (E...)	3.54	87	138062	100.902	ppb	97
21) 2,2-Dichloropropane	3.66	77	143469	98.227	ppb	92
22) cis-1,2-Dichloroethene	3.67	96	129200	97.600	ppb	89
23) Chloroform	3.94	83	210748	95.586	ppb	96
24) 2-Butanone (MEK)	3.70	43	413961	489.680	ppb	99
25) t-Amyl methyl ether (T...)	4.49	73	317512	99.045	ppb	99
26) 1,2-Dichloroethane (EDC)	4.41	62	181967	95.242	ppb	97
27) 1,1,1-Trichloroethane	4.08	97	205311	100.907	ppb	94
28) 1,1-Dichloropropene	4.22	75	162360	96.971	ppb	99
29) Carbon tetrachloride	4.21	117	178880	105.419	ppb	100
31) Benzene	4.38	78	449827	97.414	ppb	93
32) Trichloroethene	4.93	95	146592	100.492	ppb	92
33) 1,2-Dichloropropane	5.13	63	133896	97.766	ppb	98
34) Bromodichloromethane	5.37	83	164852	99.778	ppb	92
36) Dibromomethane	5.23	93	79115	101.336	ppb	97

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-25S  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

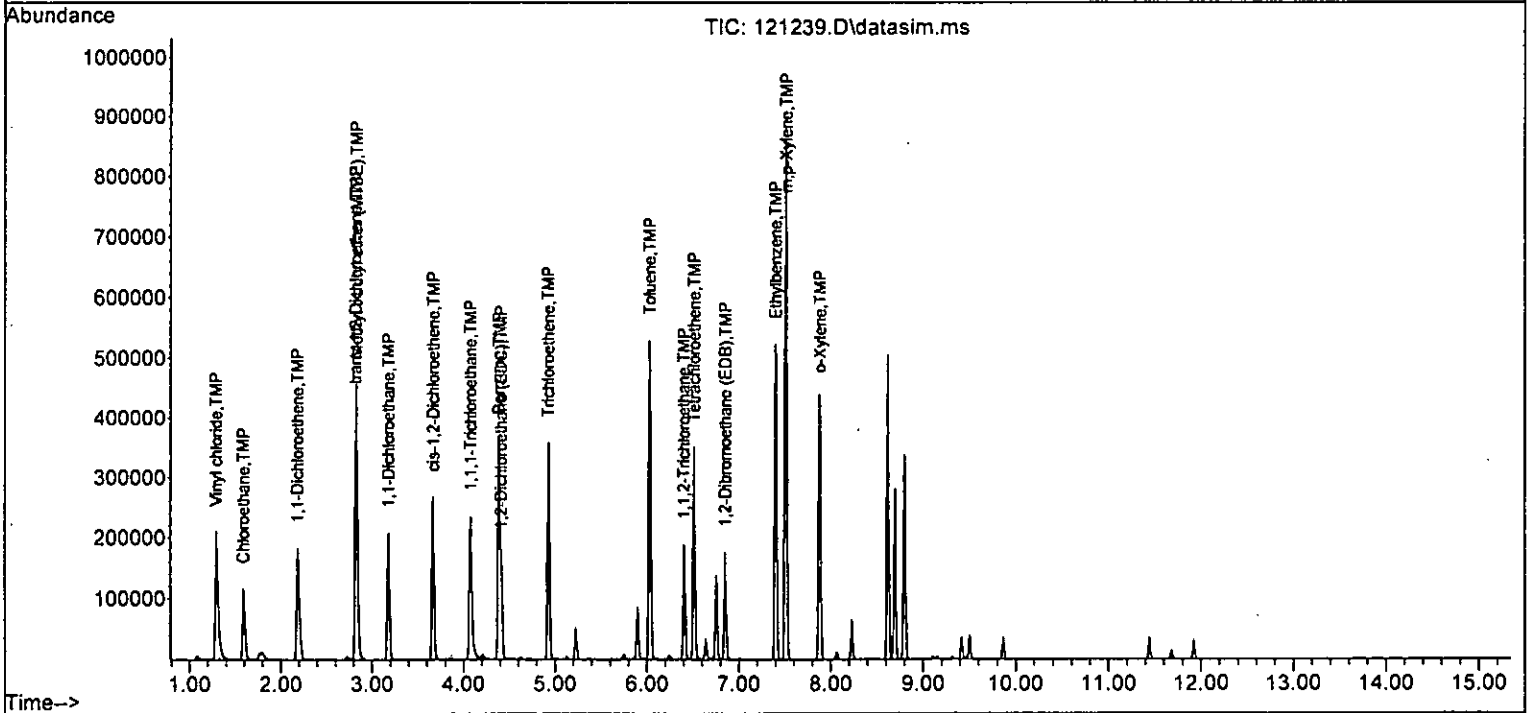
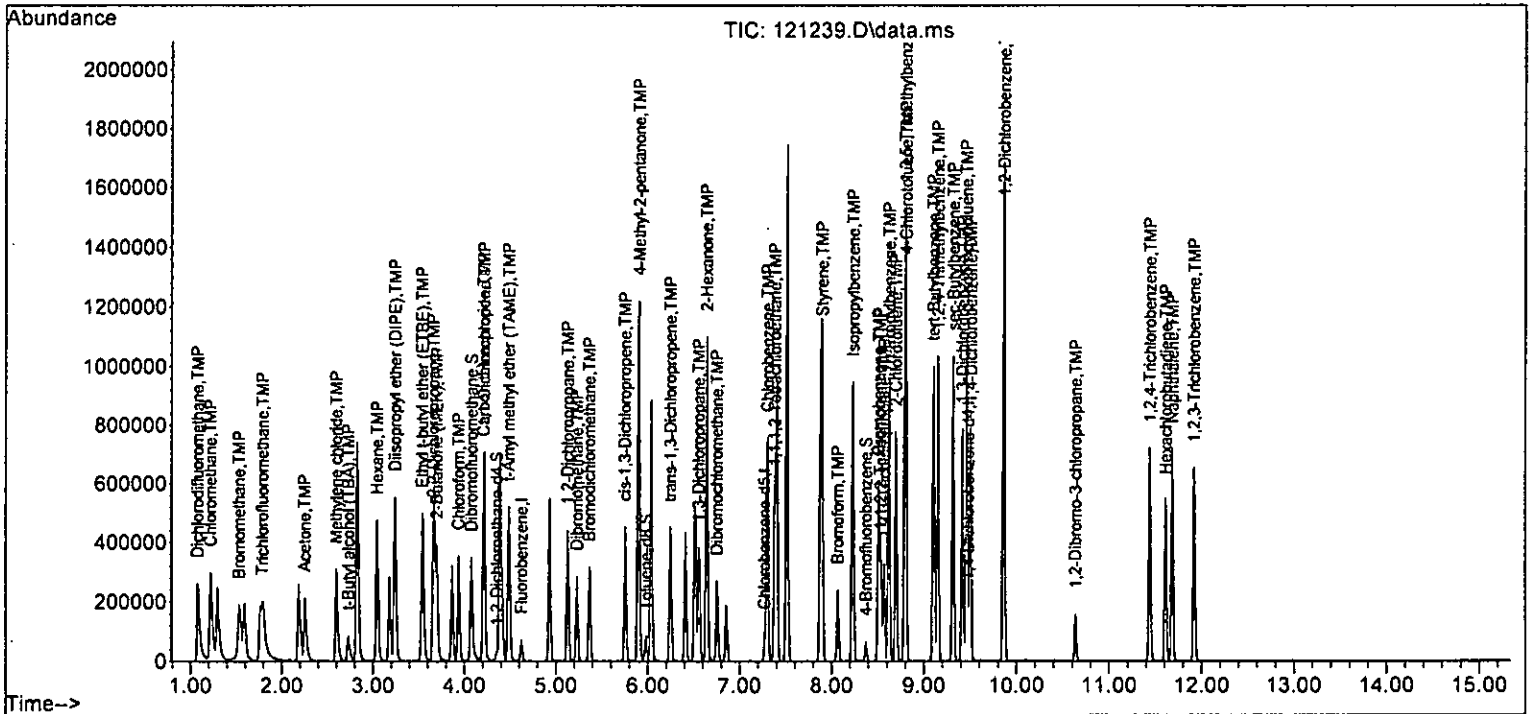
Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	115949	480.685	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	193419	97.638	ppb	98
40] Toluene	6.03	92	302504	96.307	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	179305	101.229	ppb	97
42] 1,1,2-Trichloroethane	6.40	83	94797	98.144	ppb	99
43) 2-Hexanone	6.64	43	566880	461.458	ppb	97
44) 1,3-Dichloropropane	6.55	76	168788	98.108	ppb	99
45] Tetrachloroethene	6.51	164	119084	95.015	ppb	99
46) Dibromochloromethane	6.75	129	133529	103.069	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	117565	98.059	ppb	100
48) Chlorobenzene	7.30	112	337948	99.732	ppb	99
49] Ethylbenzene	7.40	91	568500	96.325	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	127197	104.318	ppb	95
51] m,p-Xylene	7.52	106	422151	189.776	ppb	98
52] o-Xylene	7.88	106	210130	96.435	ppb	97
53) Styrene	7.90	104	349287	98.020	ppb	97
54) Isopropylbenzene	8.23	105	559484	97.670	ppb	98
55) Bromoform	8.07	173	96391	104.341	ppb	95
58) n-Propylbenzene	8.63	91	627453	96.073	ppb	94
59) Bromobenzene	8.51	156	150434	98.094	ppb	97
60) 1,3,5-Trimethylbenzene	8.80	105	465716	95.787	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	131592	94.762	ppb	96
62) 1,2,3-Trichloropropane	8.57	75	108652	93.177	ppb	96
63) 2-Chlorotoluene	8.70	91	370831	96.010	ppb	99
64) 4-Chlorotoluene	8.81	91	428893	94.476	ppb	99
65) tert-Butylbenzene	9.10	119	420561	98.702	ppb	98
66) 1,2,4-Trimethylbenzene	9.15	105	475679	96.517	ppb	98
67) sec-Butylbenzene	9.32	105	605103	97.977	ppb	99
68) p-Isopropyltoluene	9.46	119	531214	99.887	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	275947	96.675	ppb	98
70) 1,4-Dichlorobenzene	9.51	146	277090	95.298	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	265839	96.795	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.64	75	30757	99.737	ppb	83
73) 1,2,4-Trichlorobenzene	11.44	180	203824	104.517	ppb	97
74) Hexachlorobutadiene	11.61	225	109690	101.761	ppb	95
75) Naphthalene	11.68	128	481763	93.202	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	186847	103.850	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	9.864	1.4	100	0.00
4 TMP	Dichlorodifluoromethane	150.000	157.348	-4.9	100	0.00
5 TMP	Chloromethane	150.000	147.059	2.0	100	0.00
6 TMP	Vinyl chloride	150.000	151.013	-0.7	100	0.00
7 TMP	Bromomethane	150.000	154.661	-3.1	100	0.00
8 TMP	Chloroethane	150.000	141.583	5.6	100	0.00
9 TMP	Trichlorofluoromethane	150.000	161.528	-7.7	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	750.000	750.266	-0.0	100	0.00
12 TMP	1,1-Dichloroethene	150.000	150.515	-0.3	100	0.00
13 TMP	Hexane	150.000	144.867	3.4	100	0.00
14 TMP	Methylene chloride	150.000	142.028	5.3	100	0.00
15 TMP	t-Butyl alcohol (TBA)	750.000	769.304	-2.6	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	150.000	148.506	1.0	100	0.00
17 TMP	trans-1,2-Dichloroethene	150.000	142.672	4.9	100	0.00
18 TMP	Diisopropyl ether (DIPE)	150.000	146.936	2.0	100	0.00
19 TMP	1,1-Dichloroethane	150.000	148.289	1.1	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	150.000	150.897	-0.6	100	0.00
21 TMP	2,2-Dichloropropane	150.000	142.851	4.8	100	0.00
22 TMP	cis-1,2-Dichloroethene	150.000	147.232	1.8	100	0.00
23 TMP	Chloroform	150.000	146.112	2.6	100	0.00
24 TMP	2-Butanone (MEK)	750.000	745.033	0.7	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	150.000	146.873	2.1	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	150.000	143.753	4.2	100	0.00
27 TMP	1,1,1-Trichloroethane	150.000	153.408	-2.3	100	0.00
28 TMP	1,1-Dichloropropene	150.000	146.263	2.5	100	0.00
29 TMP	Carbon tetrachloride	150.000	162.724	-8.5	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.908	0.9	100	0.00
31 TMP	Benzene	150.000	147.073	2.0	100	0.00
32 TMP	Trichloroethene	150.000	152.545	-1.7	100	0.00
33 TMP	1,2-Dichloropropane	150.000	146.158	2.6	100	0.00
34 TMP	Bromodichloromethane	150.000	154.015	-2.7	100	0.00
35 S	Toluene-d8	10.000	9.972	0.3	100	0.00
36 TMP	Dibromomethane	150.000	154.323	-2.9	100	0.00
37 TMP	4-Methyl-2-pentanone	750.000	738.409	1.5	100	0.00
38 TMP	cis-1,3-Dichloropropene	150.000	148.299	1.1	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	150.000	148.909	0.7	100	0.00
41 TMP	trans-1,3-Dichloropropene	150.000	158.386	-5.6	100	0.00
42 TMP	1,1,2-Trichloroethane	150.000	153.831	-2.6	100	0.00
43 TMP	2-Hexanone	750.000	720.241	4.0	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	150.000	153.253	-2.2	100	0.00
45 TMP Tetrachloroethene	150.000	147.548	1.6	100	0.00
46 TMP Dibromochloromethane	150.000	163.093	-8.7	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	150.000	153.058	-2.0	100	0.00
48 TMP Chlorobenzene	150.000	154.996	-3.3	100	0.00
49 TMP Ethylbenzene	150.000	148.374	1.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	150.000	161.615	-7.7	100	0.00
51 TMP m,p-Xylene	300.000	294.148	2.0	100	0.00
52 TMP o-Xylene	150.000	149.783	0.1	100	0.00
53 TMP Styrene	150.000	152.583	-1.7	100	0.00
54 TMP Isopropylbenzene	150.000	152.556	-1.7	100	0.00
55 TMP Bromoform	150.000	167.050	-11.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.604	-6.0	100	0.00
58 TMP n-Propylbenzene	150.000	149.893	0.1	100	0.00
59 TMP Bromobenzene	150.000	154.222	-2.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	150.000	148.178	1.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	150.000	147.638	1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	150.000	147.268	1.8	100	0.00
63 TMP 2-Chlorotoluene	150.000	148.863	0.8	100	0.00
64 TMP 4-Chlorotoluene	150.000	147.049	2.0	100	0.00
65 TMP tert-Butylbenzene	150.000	154.977	-3.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	150.000	151.478	-1.0	100	0.00
67 TMP sec-Butylbenzene	150.000	153.498	-2.3	100	0.00
68 TMP p-Isopropyltoluene	150.000	155.786	-3.9	100	0.00
69 TMP 1,3-Dichlorobenzene	150.000	151.079	-0.7	100	0.00
70 TMP 1,4-Dichlorobenzene	150.000	149.089	0.6	100	0.00
71 TMP 1,2-Dichlorobenzene	150.000	151.392	-0.9	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	150.000	162.204	-8.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	150.000	166.038	-10.7	100	0.00
74 TMP Hexachlorobutadiene	150.000	159.359	-6.2	100	0.00
75 TMP Naphthalene	150.000	151.154	-0.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	150.000	166.297	-10.9	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.260	1.5	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.722	-4.9	100	0.00
5 TMP	Chloromethane	0.883	0.865	2.0	100	0.00
6 TMP	Vinyl chloride	0.732	0.737	-0.7	100	0.00
7 TMP	Bromomethane	0.368	0.380	-3.3	100	0.00
8 TMP	Chloroethane	0.336	0.318	5.4	100	0.00
9 TMP	Trichlorofluoromethane	0.870	0.937	-7.7	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.037	0.0	100	0.00
12 TMP	1,1-Dichloroethene	0.240	0.241	-0.4	100	0.00
13 TMP	Hexane	0.434	0.419	3.5	100	0.00
14 TMP	Methylene chloride	0.269	0.255	5.2	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.047	-2.2	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.726	1.0	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.259	4.8	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.913	2.0	100	0.00
19 TMP	1,1-Dichloroethane	0.504	0.499	1.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.298	-0.7	100	0.00
21 TMP	2,2-Dichloropropane	0.316	0.301	4.7	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.281	1.7	100	0.00
23 TMP	Chloroform	0.477	0.465	2.5	100	0.00
24 TMP	2-Butanone (MEK)	0.183	0.182	0.5	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.679	2.2	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.396	4.1	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.450	-2.3	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.353	2.5	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.398	-8.4	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP	Benzene	0.999	0.979	2.0	100	0.00
32 TMP	Trichloroethene	0.316	0.321	-1.6	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.289	2.4	100	0.00
34 TMP	Bromodichloromethane	0.357	0.367	-2.8	100	0.00
35 S	Toluene-d8	0.960	0.957	0.3	100	0.00
36 TMP	Dibromomethane	0.169	0.174	-3.0	100	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.424	1.2	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.858	0.851	0.8	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.484	0.511	-5.6	100	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.270	-2.3	100	0.00
43 TMP	2-Hexanone	0.335	0.322	3.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.480	-2.1	100	0.00
45 TMP Tetrachloroethene	0.342	0.337	1.5	100	0.00
46 TMP Dibromochloromethane	0.354	0.385	-8.8	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.334	-2.1	100	0.00
48 TMP Chlorobenzene	0.925	0.956	-3.4	100	0.00
49 TMP Ethylbenzene	1.611	1.594	1.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.359	-7.8	100	0.00
51 TMP m,p-Xylene	0.607	0.595	2.0	100	0.00
52 TMP o-Xylene	0.595	0.594	0.2	100	0.00
53 TMP Styrene	0.973	0.990	-1.7	100	0.00
54 TMP Isopropylbenzene	1.564	1.591	-1.7	100	0.00
55 TMP Bromoform	0.252	0.281	-11.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.895	-6.0	100	0.00
58 TMP n-Propylbenzene	3.281	3.279	0.1	100	0.00
59 TMP Bromobenzene	0.770	0.792	-2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.413	1.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.687	1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.575	1.9	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.926	0.8	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.236	2.0	100	0.00
65 TMP tert-Butylbenzene	2.141	2.212	-3.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.501	-1.0	100	0.00
67 TMP sec-Butylbenzene	3.103	3.175	-2.3	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.775	-3.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.444	-0.7	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.452	0.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.393	-0.9	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.168	-8.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.085	-10.7	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.575	-6.1	100	0.00
75 TMP Naphthalene	2.597	2.617	-0.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	1.002	-10.8	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	46540	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	36065	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19550	10.000	ppb	# 0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	12113	9.864	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.60%
30) 1,2-Dichloroethane-d4	4.35	102	2782	9.908	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	99.10%
35) Toluene-d8	5.98	98	44558	9.972	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	99.70%
57) 4-Bromofluorobenzene	8.38	95	17502	10.604	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	106.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.08	85	504188	157.348	ppb	99
5) Chloromethane	1.22	50	604187	147.059	ppb	99
6) Vinyl chloride	1.29	62	514284	151.013	ppb	94
7) Bromomethane	1.53	94	265112	154.661	ppb	69
8) Chloroethane	1.59	64	221680	141.583	ppb	98
9) Trichlorofluoromethane	1.79	101	653937	161.528	ppb	99
10) 2-Propanol	2.40	45	537	No Calib		
11) Acetone	2.25	58	129993	750.266	ppb	93
12) 1,1-Dichloroethene	2.19	96	168377	150.515	ppb	85
13) Hexane	3.05	57	292433	144.867	ppb	98
14) Methylene chloride	2.60	84	177825	142.028	ppb	95
15) t-Butyl alcohol (TBA)	2.73	59	165345	769.304	ppb	99
16) Methyl t-butyl ether (...)	2.83	73	506723	148.506	ppb	97
17) trans-1,2-Dichloroethene	2.82	96	180772	142.672	ppb	97
18) Diisopropyl ether (DIPE)	3.24	45	637349	146.936	ppb	98
19) 1,1-Dichloroethane	3.18	63	348023	148.289	ppb	100
20) Ethyl t-butyl ether (E...)	3.54	87	207881	150.897	ppb	99
21) 2,2-Dichloropropane	3.66	77	210074	142.851	ppb	93
22) cis-1,2-Dichloroethene	3.67	96	196234	147.232	ppb	87
23) Chloroform	3.94	83	324349	146.112	ppb	97
24) 2-Butanone (MEK)	3.70	43	634135	745.033	ppb	98
25) t-Amyl methyl ether (T...)	4.49	73	474055	146.873	ppb	98
26) 1,2-Dichloroethane (EDC)	4.41	62	276529	143.753	ppb	97
27) 1,1,1-Trichloroethane	4.08	97	314267	153.408	ppb	94
28) 1,1-Dichloropropene	4.22	75	246565	146.263	ppb	97
29) Carbon tetrachloride	4.21	117	278007	162.724	ppb	99
31) Benzene	4.39	78	683781	147.073	ppb	94
32) Trichloroethene	4.93	95	224045	152.545	ppb	90
33) 1,2-Dichloropropane	5.13	63	201540	146.158	ppb	98
34) Bromodichloromethane	5.37	83	256202	154.015	ppb	91
36) Dibromomethane	5.23	93	121306	154.323	ppb	97

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

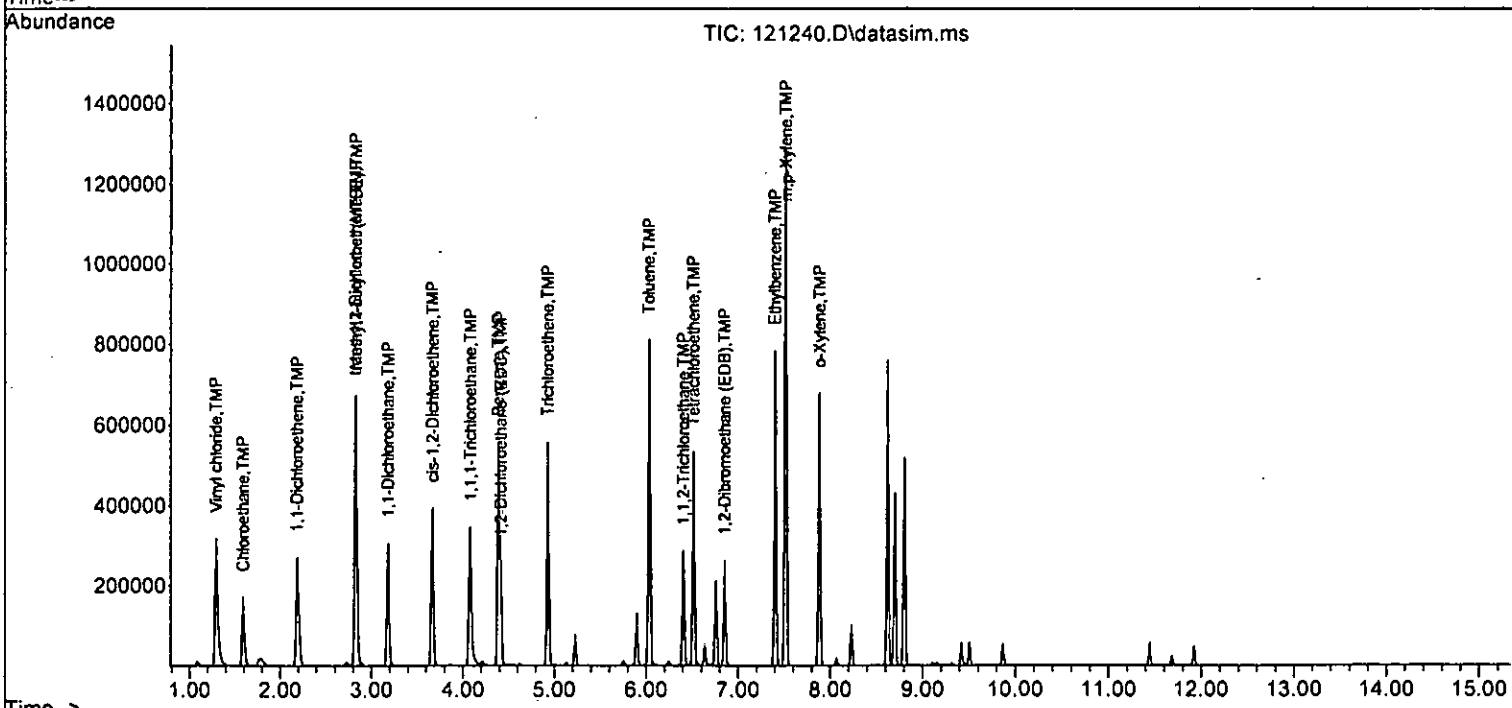
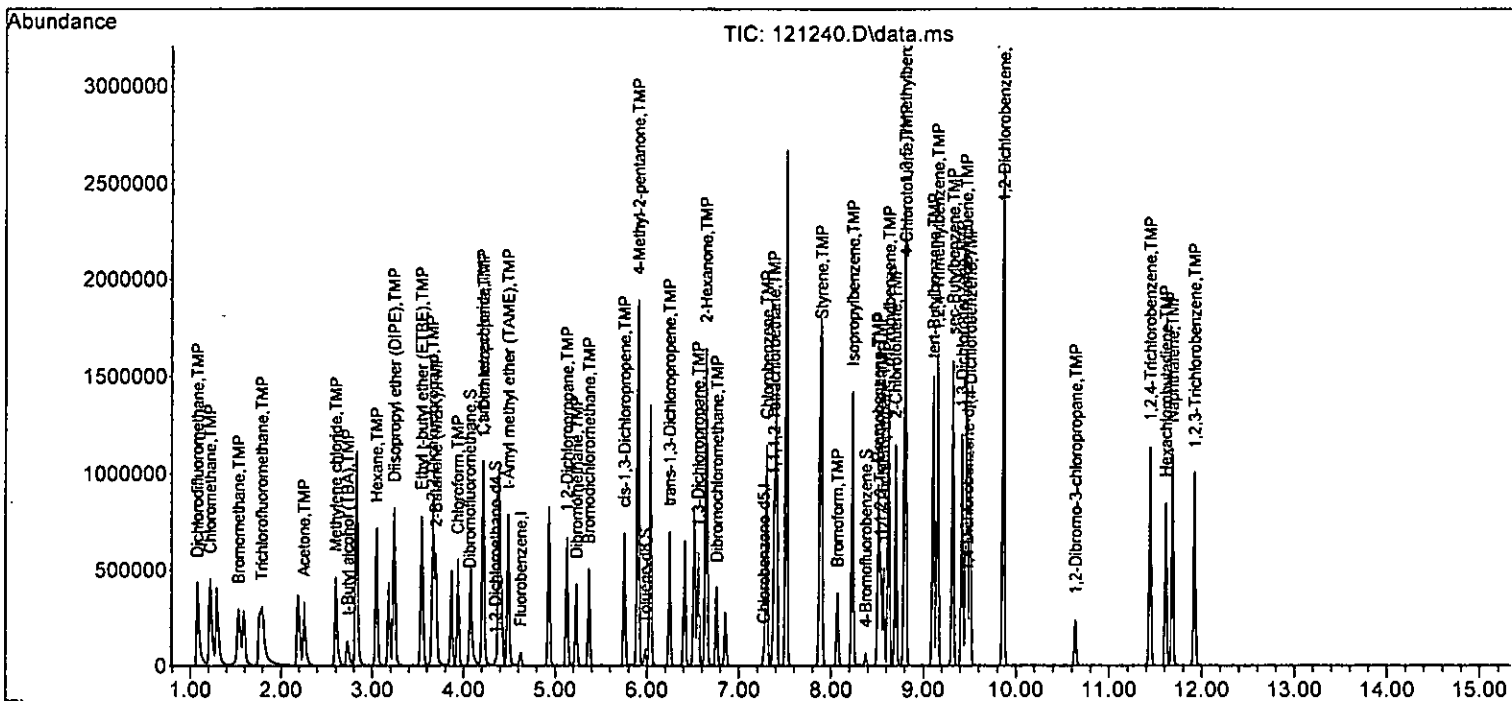
Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	179334	738.409	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	295786	148.299	ppb	100
40] Toluene	6.03	92	460551	148.909	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	276241	158.386	ppb	97
42] 1,1,2-Trichloroethane	6.40	83	146305	153.831	ppb	99
43) 2-Hexanone	6.64	43	871208	720.241	ppb	97
44) 1,3-Dichloropropane	6.55	76	259616	153.253	ppb	98
45] Tetrachloroethene	6.51	164	182088	147.548	ppb	99
46) Dibromochloromethane	6.76	129	208049	163.093	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	180689	153.058	ppb	100
48) Chlorobenzene	7.30	112	517157	154.996	ppb	99
49] Ethylbenzene	7.40	91	862249	148.374	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	194036	161.615	ppb	95
51] m,p-Xylene	7.52	106	644285	294.148	ppb	96
52] o-Xylene	7.88	106	321364	149.783	ppb	95
53) Styrene	7.90	104	535373	152.583	ppb	100
54) Isopropylbenzene	8.23	105	860476	152.556	ppb	99
55) Bromoform	8.07	173	151954	167.050	ppb	94
58) n-Propylbenzene	8.63	91	961540	149.893	ppb	96
59) Bromobenzene	8.51	156	232304	154.222	ppb	99
60) 1,3,5-Trimethylbenzene	8.80	105	707628	148.178	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	201371	147.638	ppb	95
62) 1,2,3-Trichloropropane	8.57	75	168671	147.268	ppb	97
63) 2-Chlorotoluene	8.70	91	564745	148.863	ppb	100
64) 4-Chlorotoluene	8.81	91	655687	147.049	ppb	97
65) tert-Butylbenzene	9.11	119	648597	154.977	ppb	98
66) 1,2,4-Trimethylbenzene	9.15	105	733274	151.478	ppb	98
67) sec-Butylbenzene	9.32	105	931136	153.498	ppb	98
68) p-Isopropyltoluene	9.46	119	813758	155.786	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	423564	151.079	ppb	99
70) 1,4-Dichlorobenzene	9.51	146	425782	149.089	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	408391	151.392	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.64	75	49131	162.204	ppb	81
73) 1,2,4-Trichlorobenzene	11.44	180	318041	166.038	ppb	99
74) Hexachlorobutadiene	11.61	225	168720	159.359	ppb	93
75) Naphthalene	11.68	128	767421	151.154	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	293881	166.297	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

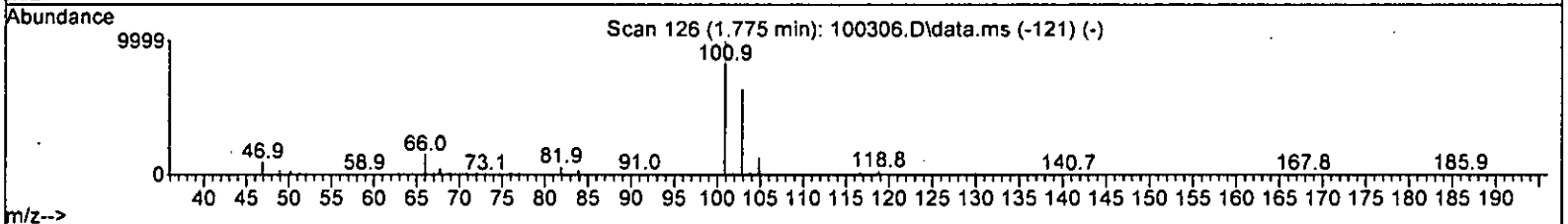
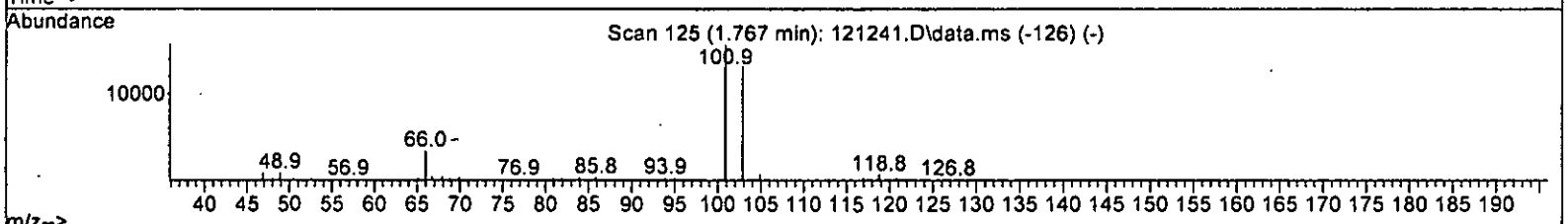
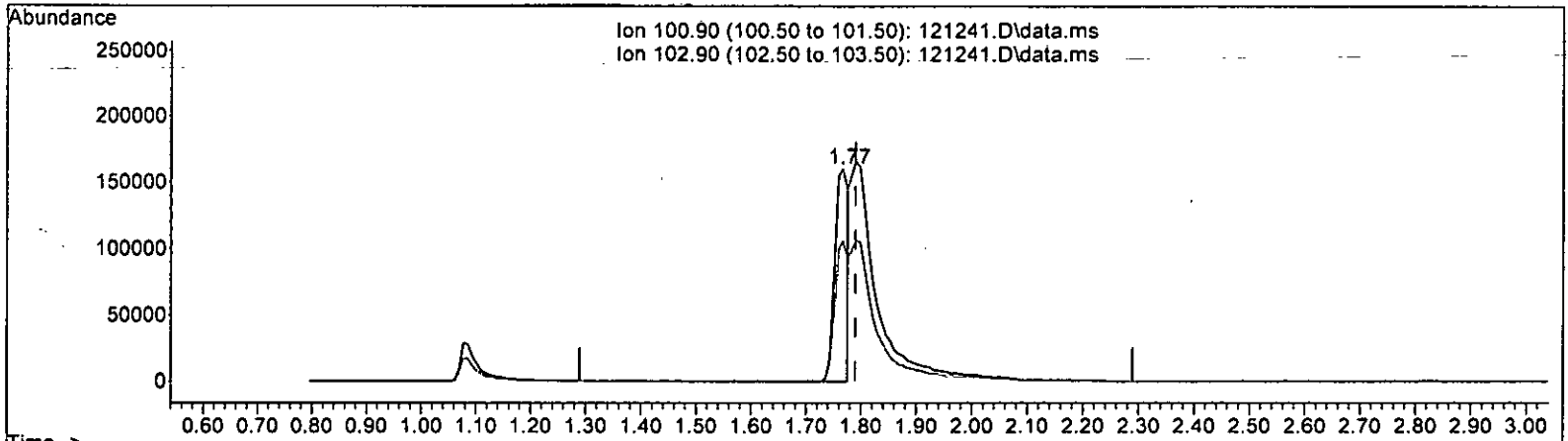
Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121241.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 66.449 ppb

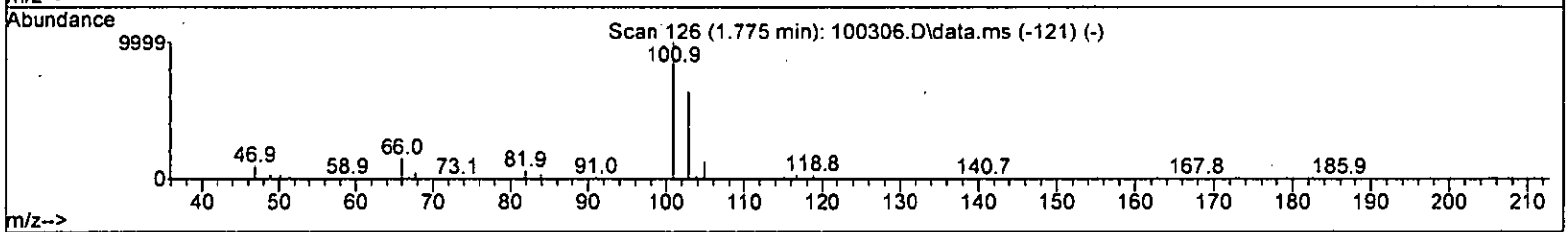
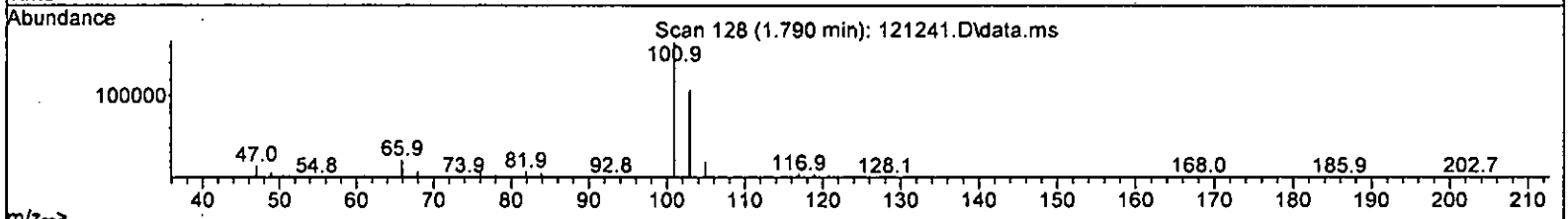
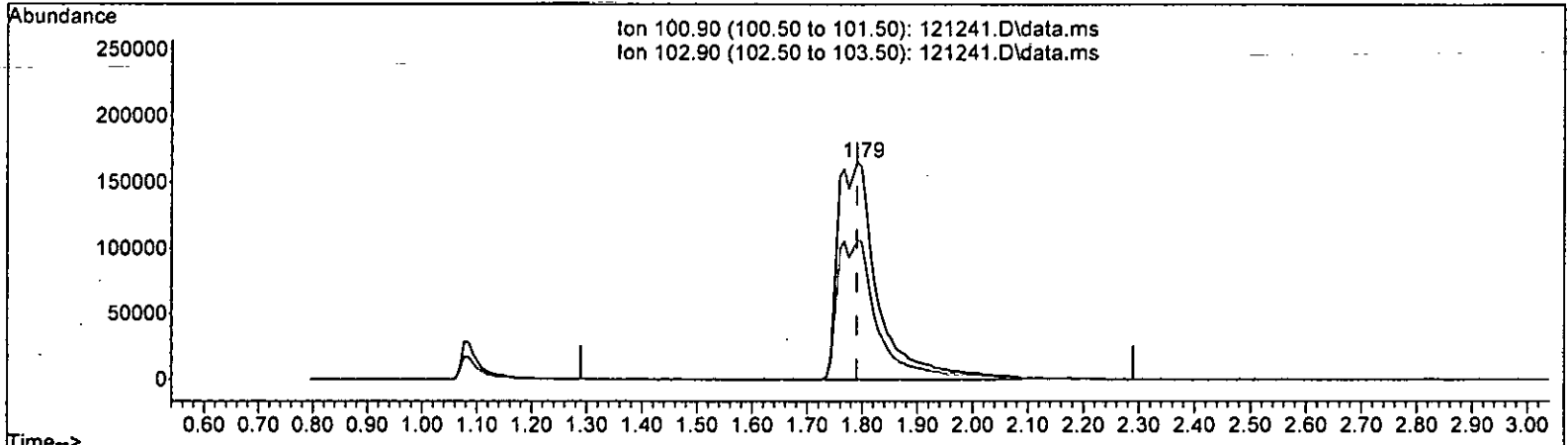
response	Exp%	Act%
264917	100.00	100.00
Ion 100.90	100.00	100.00
Ion 102.90	67.70	65.86
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121241.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.790min (+ 0.000) 215.597 ppb m

response	859534
Ion	Exp% Act%
100.90	100.00 100.00
102.90	62.70 64.20
0.00	0.00 0.00
0.00	0.00 0.00

*12/15 LM*



Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.178	-1.8	100	0.00
4 TMP Dichlorodifluoromethane	200.000	207.595	-3.8	100	0.00
5 TMP Chloromethane	200.000	197.639	1.2	100	0.00
6 TMP Vinyl chloride	200.000	200.385	-0.2	100	0.00
7 TMP Bromomethane	200.000	207.118	-3.6	100	0.00
8 TMP Chloroethane	200.000	189.756	5.1	100	0.00
9 TMP Trichlorofluoromethane	200.000	215.597	-7.8	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	1000.000	1007.946	-0.8	100	0.00
12 TMP 1,1-Dichloroethene	200.000	198.369	0.8	100	0.00
13 TMP Hexane	200.000	192.176	3.9	100	0.00
14 TMP Methylene chloride	200.000	190.509	4.7	100	0.00
15 TMP t-Butyl alcohol (TBA)	1000.000	1016.892	-1.7	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	200.000	198.672	0.7	100	0.00
17 TMP trans-1,2-Dichloroethene	200.000	191.318	4.3	100	0.00
18 TMP Diisopropyl ether (DIPE)	200.000	194.152	2.9	100	0.00
19 TMP 1,1-Dichloroethane	200.000	198.145	0.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	200.000	201.413	-0.7	100	0.00
21 TMP 2,2-Dichloropropane	200.000	192.271	3.9	100	0.00
22 TMP cis-1,2-Dichloroethene	200.000	197.706	1.1	100	0.00
23 TMP Chloroform	200.000	195.552	2.2	100	0.00
24 TMP 2-Butanone (MEK)	1000.000	909.549	9.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	200.000	200.350	-0.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	200.000	192.918	3.5	100	0.00
27 TMP 1,1,1-Trichloroethane	200.000	205.791	-2.9	100	0.00
28 TMP 1,1-Dichloropropene	200.000	197.985	1.0	100	0.00
29 TMP Carbon tetrachloride	200.000	220.014	-10.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.340	-3.4	100	0.00
31 TMP Benzene	200.000	197.148	1.4	100	0.00
32 TMP Trichloroethene	200.000	205.137	-2.6	100	0.00
33 TMP 1,2-Dichloropropane	200.000	196.561	1.7	100	0.00
34 TMP Bromodichloromethane	200.000	204.528	-2.3	100	0.00
35 S Toluene-d8	10.000	10.001	-0.0	100	0.00
36 TMP Dibromomethane	200.000	208.739	-4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	1000.000	977.670	2.2	100	0.00
38 TMP cis-1,3-Dichloropropene	200.000	200.117	-0.1	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	200.000	191.517	4.2	100	0.01
41 TMP trans-1,3-Dichloropropene	200.000	202.915	-1.5	100	0.00
42 TMP 1,1,2-Trichloroethane	200.000	196.155	1.9	100	0.00
43 TMP 2-Hexanone	1000.000	902.158	9.8	100	0.00

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	200.000	198.072	1.0	100	0.00
45 TMP Tetrachloroethene	200.000	188.790	5.6	100	0.00
46 TMP Dibromochloromethane	200.000	209.916	-5.0	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	200.000	194.643	2.7	100	0.00
48 TMP Chlorobenzene	200.000	200.291	-0.1	100	0.00
49 TMP Ethylbenzene	200.000	190.535	4.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	200.000	208.890	-4.4	100	0.00
51 TMP m,p-Xylene	400.000	379.798	5.1	100	0.00
52 TMP o-Xylene	200.000	191.876	4.1	100	0.00
53 TMP Styrene	200.000	197.267	1.4	100	0.00
54 TMP Isopropylbenzene	200.000	194.397	2.8	100	0.00
55 TMP Bromoform	200.000	215.393	-7.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.387	-3.9	100	0.00
58 TMP n-Propylbenzene	200.000	193.174	3.4	100	0.00
59 TMP Bromobenzene	200.000	200.088	-0.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	200.000	191.959	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	200.000	191.068	4.5	100	0.00
62 TMP 1,2,3-Trichloropropane	200.000	189.783	5.1	100	0.00
63 TMP 2-Chlorotoluene	200.000	192.810	3.6	100	0.00
64 TMP 4-Chlorotoluene	200.000	191.260	4.4	100	0.00
65 TMP tert-Butylbenzene	200.000	200.213	-0.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	200.000	198.455	0.8	100	0.00
67 TMP sec-Butylbenzene	200.000	200.676	-0.3	100	0.00
68 TMP p-Isopropyltoluene	200.000	201.968	-1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	200.000	197.661	1.2	100	0.00
70 TMP 1,4-Dichlorobenzene	200.000	195.446	2.3	100	0.00
71 TMP 1,2-Dichlorobenzene	200.000	197.850	1.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	200.000	208.611	-4.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	200.000	216.478	-8.2	100	0.00
74 TMP Hexachlorobutadiene	200.000	201.749	-0.9	100	0.00
75 TMP Naphthalene	200.000	196.122	1.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	200.000	214.664	-7.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.269	-1.9	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.715	-3.9	100	0.00
5 TMP	Chloromethane	0.883	0.872	1.2	100	0.00
6 TMP	Vinyl chloride	0.732	0.733	-0.1	100	0.00
7 TMP	Bromomethane	0.368	0.381	-3.5	100	0.00
8 TMP	Chloroethane	0.336	0.319	5.1	100	0.00
9 TMP	Trichlorofluoromethane	0.870	0.938	-7.8	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.038	-2.7	100	0.00
12 TMP	1,1-Dichloroethene	0.240	0.238	0.8	100	0.00
13 TMP	Hexane	0.434	0.417	3.9	100	0.00
14 TMP	Methylene chloride	0.269	0.256	4.8	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.047	-2.2	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.728	0.7	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.260	4.4	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.905	2.9	100	0.00
19 TMP	1,1-Dichloroethane	0.504	0.500	0.8	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.298	-0.7	100	0.00
21 TMP	2,2-Dichloropropane	0.316	0.304	3.8	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.283	1.0	100	0.00
23 TMP	Chloroform	0.477	0.466	2.3	100	0.00
24 TMP	2-Butanone (MEK)	0.183	0.166	9.3	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.695	-0.1	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.399	3.4	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.453	-3.0	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.359	0.8	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.404	-10.1	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP	Benzene	0.999	0.985	1.4	100	0.00
32 TMP	Trichloroethene	0.316	0.324	-2.5	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.291	1.7	100	0.00
34 TMP	Bromodichloromethane	0.357	0.366	-2.5	100	0.00
35 S	Toluene-d8	0.960	0.960	0.0	100	0.00
36 TMP	Dibromomethane	0.169	0.176	-4.1	100	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.429	0.0	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.858	0.821	4.3	100	0.01
41 TMP	trans-1,3-Dichloropropene	0.484	0.491	-1.4	100	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.259	1.9	100	0.00
43 TMP	2-Hexanone	0.335	0.303	9.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.465	1.1	100	0.00
45 TMP Tetrachloroethene	0.342	0.323	5.6	100	0.00
46 TMP Dibromochloromethane	0.354	0.371	-4.8	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.319	2.4	100	0.00
48 TMP Chlorobenzene	0.925	0.927	-0.2	100	0.00
49 TMP Ethylbenzene	1.611	1.535	4.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.348	-4.5	100	0.00
51 TMP m,p-Xylene	0.607	0.577	4.9	100	0.00
52 TMP o-Xylene	0.595	0.571	4.0	100	0.00
53 TMP Styrene	0.973	0.960	1.3	100	0.00
54 TMP Isopropylbenzene	1.564	1.520	2.8	100	0.00
55 TMP Bromoform	0.252	0.272	-7.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.877	-3.9	100	0.00
58 TMP n-Propylbenzene	3.281	3.169	3.4	100	0.00
59 TMP Bromobenzene	0.770	0.771	-0.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.345	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.667	4.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.556	5.1	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.871	3.6	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.181	4.4	100	0.00
65 TMP tert-Butylbenzene	2.141	2.143	-0.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.457	0.8	100	0.00
67 TMP sec-Butylbenzene	3.103	3.113	-0.3	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.698	-1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.417	1.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.428	2.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.365	1.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.162	-4.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.061	-8.3	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.546	-0.7	100	0.00
75 TMP Naphthalene	2.597	2.547	1.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.970	-7.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	45831	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	37397	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	20078	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	12308	10.178	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery = 101.80%				
30) 1,2-Dichloroethane-d4	4.36	102	2859	10.340	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery = 103.40%				
35) Toluene-d8	5.98	98	44007	10.001	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery = 100.00%				
57) 4-Bromofluorobenzene	8.38	95	17607	10.387	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery = 103.90%				
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.08	85	655057	207.595	ppb		99
5) Chloromethane	1.22	50	799622	197.639	ppb		99
6] Vinyl chloride	1.29	62	672029	200.385	ppb		97
7) Bromomethane	1.54	94	349621	207.118	ppb		70
8] Chloroethane	1.59	64	292579	189.756	ppb		99
9) Trichlorofluoromethane	1.79	101	859534m	215.597	ppb		
10) 2-Propanol	2.41	45	713	No Calib			
11) Acetone	2.25	58	171979	1007.946	ppb		91
12] 1,1-Dichloroethene	2.18	96	218529	198.369	ppb		82
13) Hexane	3.05	57	382022	192.176	ppb		95
14) Methylene chloride	2.60	84	234892	190.509	ppb		97
15) t-Butyl alcohol (TBA)	2.73	59	215229	1016.892	ppb		97
16] Methyl t-butyl ether (...)	2.83	73	667568	198.672	ppb		97
17] trans-1,2-Dichloroethene	2.82	96	238715	191.318	ppb		98
18) Diisopropyl ether (DIPE)	3.24	45	829323	194.152	ppb		98
19] 1,1-Dichloroethane	3.18	63	457946	198.145	ppb		99
20) Ethyl t-butyl ether (E...)	3.54	87	273247	201.413	ppb		97
21) 2,2-Dichloropropane	3.66	77	278442	192.271	ppb		92
22] cis-1,2-Dichloroethene	3.67	96	259492	197.706	ppb		89
23) Chloroform	3.94	83	427487	195.552	ppb		96
24) 2-Butanone (MEK)	3.70	43	762369	909.549	ppb		98
25) t-Amyl methyl ether (T...)	4.49	73	636808	200.350	ppb		100
26] 1,2-Dichloroethane (EDC)	4.41	62	365450	192.918	ppb		97
27] 1,1,1-Trichloroethane	4.08	97	415155	205.791	ppb		95
28) 1,1-Dichloropropene	4.22	75	328671	197.985	ppb		98
29) Carbon tetrachloride	4.21	117	370157	220.014	ppb		99
31] Benzene	4.38	78	902630	197.148	ppb		93
32] Trichloroethene	4.93	95	296697	205.137	ppb		92
33) 1,2-Dichloropropane	5.13	63	266913	196.561	ppb		99
34) Bromodichloromethane	5.37	83	335047	204.528	ppb		88
36) Dibromomethane	5.23	93	161580	208.739	ppb		98

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

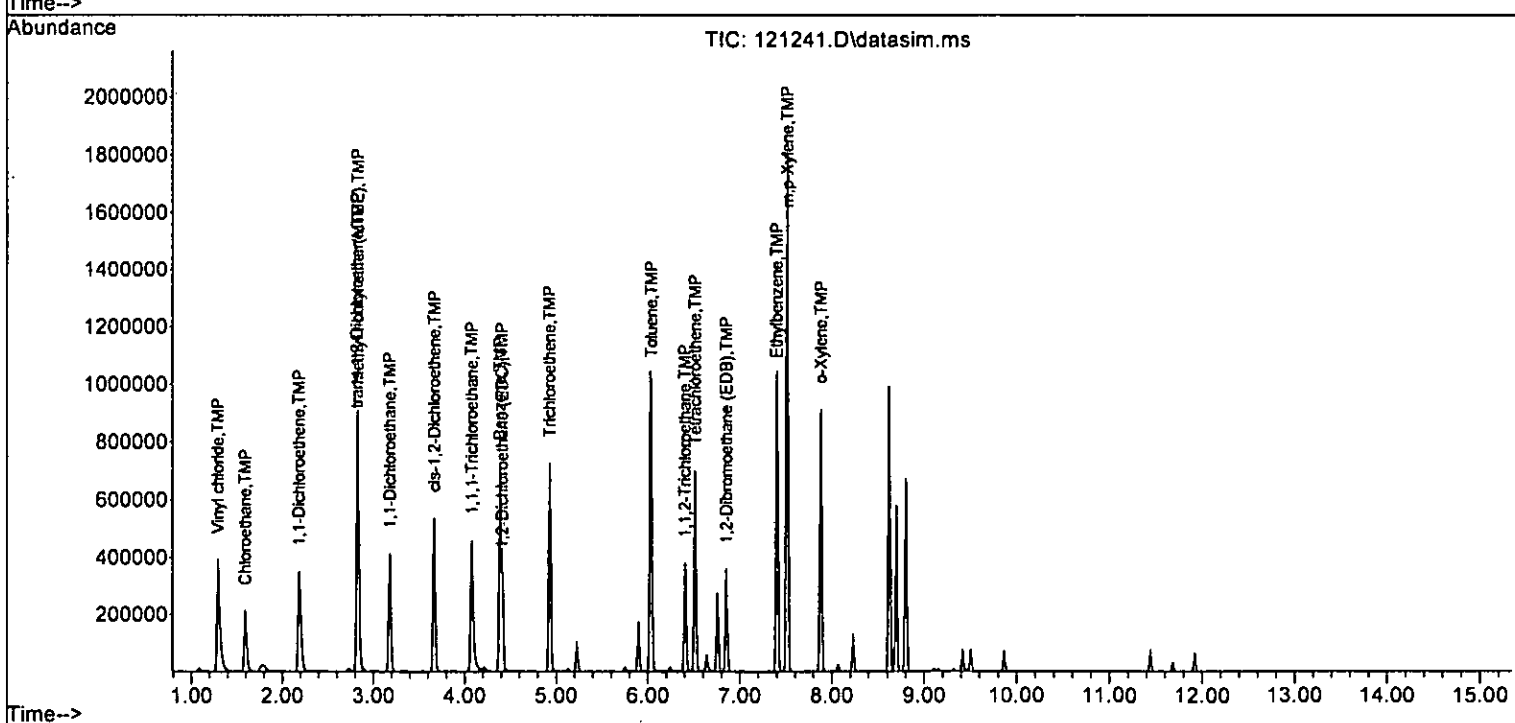
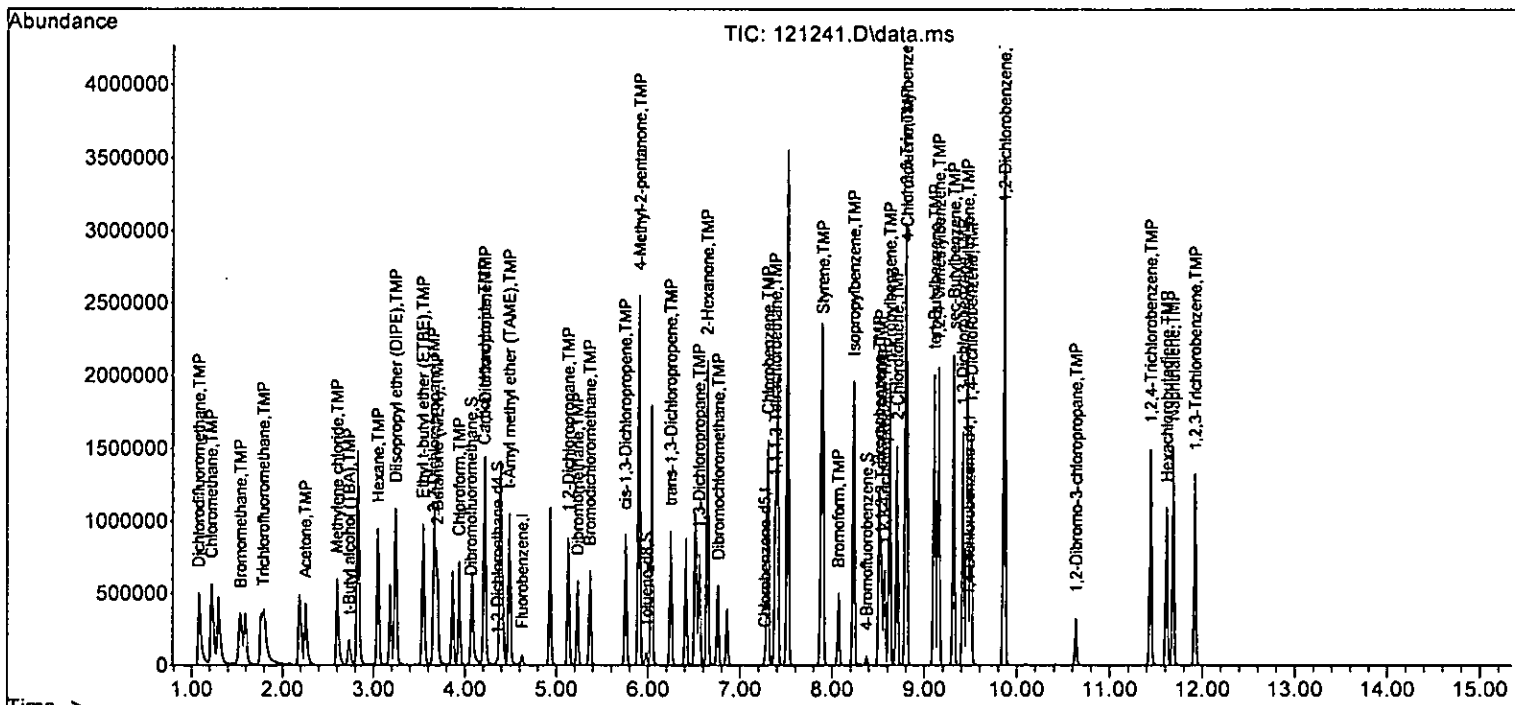
Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	233825	977.670	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	393056	200.117	ppb	99
40] Toluene	6.04	92	614208	191.517	ppb	98
41) trans-1,3-Dichloropropene	6.25	75	366976	202.915	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	193449	196.155	ppb	99
43) 2-Hexanone	6.64	43	1131560	902.158	ppb	97
44) 1,3-Dichloropropane	6.55	76	347933	198.072	ppb	98
45] Tetrachloroethene	6.51	164	241589	188.790	ppb	99
46) Dibromochloromethane	6.76	129	277669	209.916	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	238267	194.643	ppb	99
48) Chlorobenzene	7.30	112	692968	200.291	ppb	99
49] Ethylbenzene	7.40	91	1148153	190.535	ppb	97
50) 1,1,1,2-Tetrachloroethane	7.38	131	260058	208.890	ppb	97
51] m,p-Xylene	7.52	106	862612	379.798	ppb	91
52] o-Xylene	7.88	106	426881	191.876	ppb	95
53) Styrene	7.90	104	717721	197.267	ppb	98
54) Isopropylbenzene	8.23	105	1136970	194.397	ppb	99
55) Bromoform	8.07	173	203165	215.393	ppb	94
58) n-Propylbenzene	8.63	91	1272652	193.174	ppb	96
59) Bromobenzene	8.51	156	309532	200.088	ppb	98
60) 1,3,5-Trimethylbenzene	8.80	105	941465	191.959	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	267646	191.068	ppb	96
62) 1,2,3-Trichloropropane	8.57	75	223236	189.783	ppb	95
63) 2-Chlorotoluene	8.70	91	751222	192.810	ppb	98
64) 4-Chlorotoluene	8.81	91	875859	191.260	ppb	97
65) tert-Butylbenzene	9.11	119	860547	200.213	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	986628	198.455	ppb	99
67) sec-Butylbenzene	9.32	105	1250198	200.676	ppb	99
68) p-Isopropyltoluene	9.47	119	1083489	201.968	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	569128	197.661	ppb	98
70) 1,4-Dichlorobenzene	9.51	146	573249	195.446	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	548129	197.850	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.64	75	64894	208.611	ppb	86
73) 1,2,4-Trichlorobenzene	11.44	180	425856	216.478	ppb	98
74) Hexachlorobutadiene	11.61	225	219369	201.749	ppb	91
75) Naphthalene	11.68	128	1022620	196.122	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	389600	214.664	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

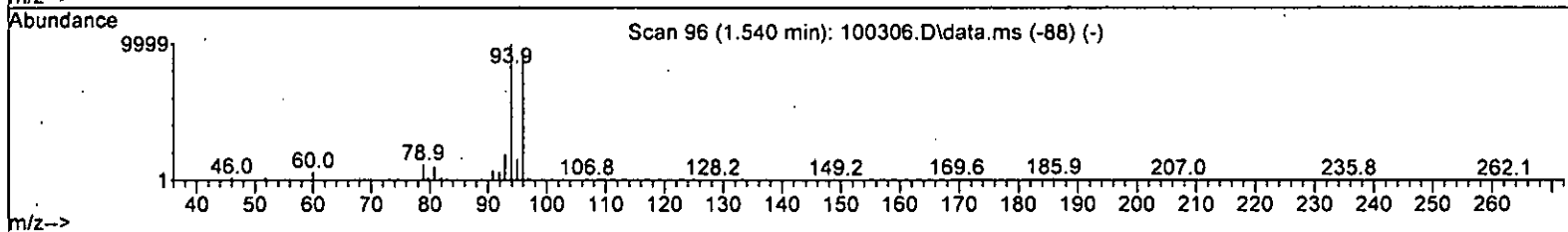
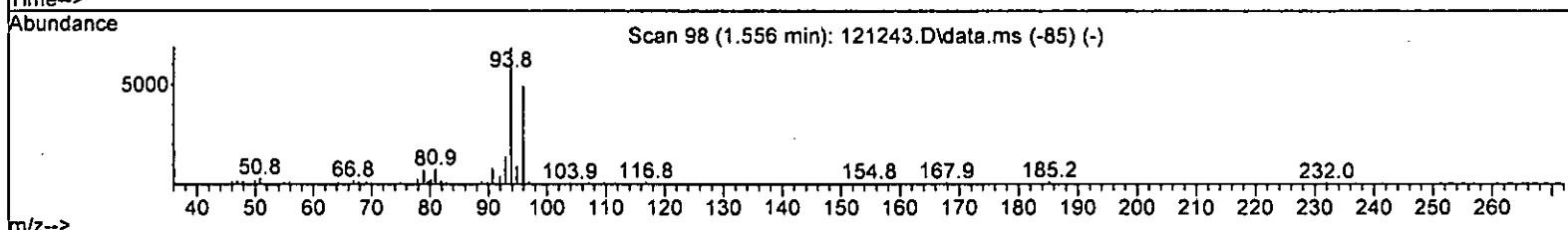
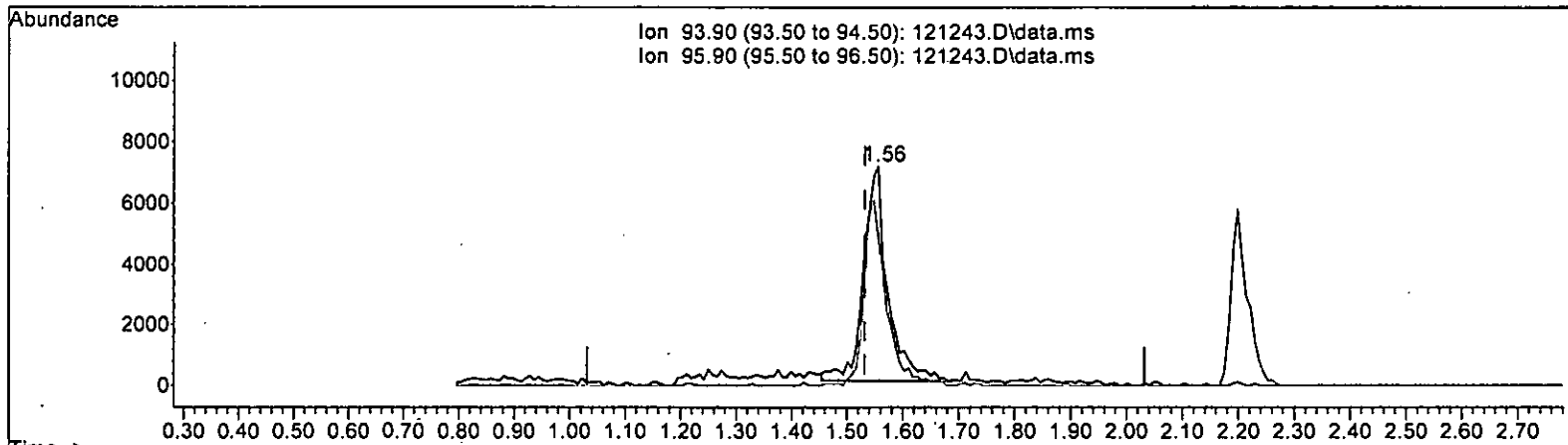
Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121243.D\data.ms

(7) Bromomethane (TMB)		
1.556min (+ 0.024)	11.782 ppb	
response	21279	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	69.20
0.00	0.00	0.00
0.00	0.00	0.00

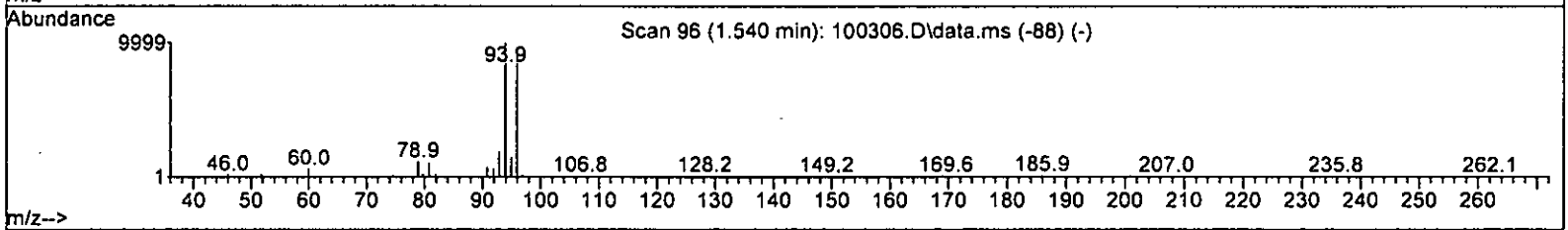
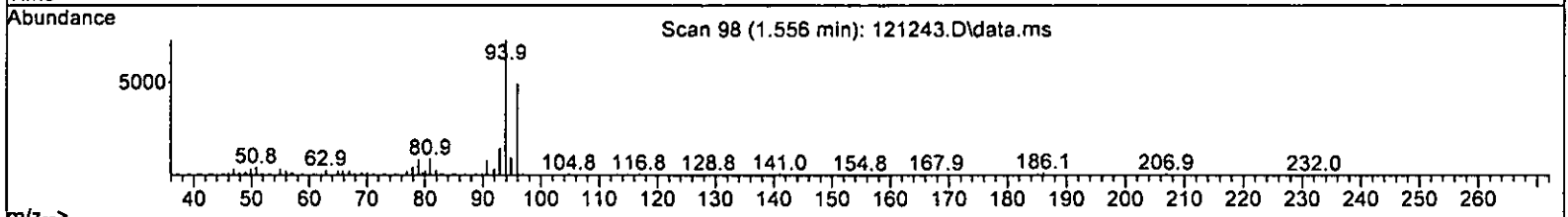
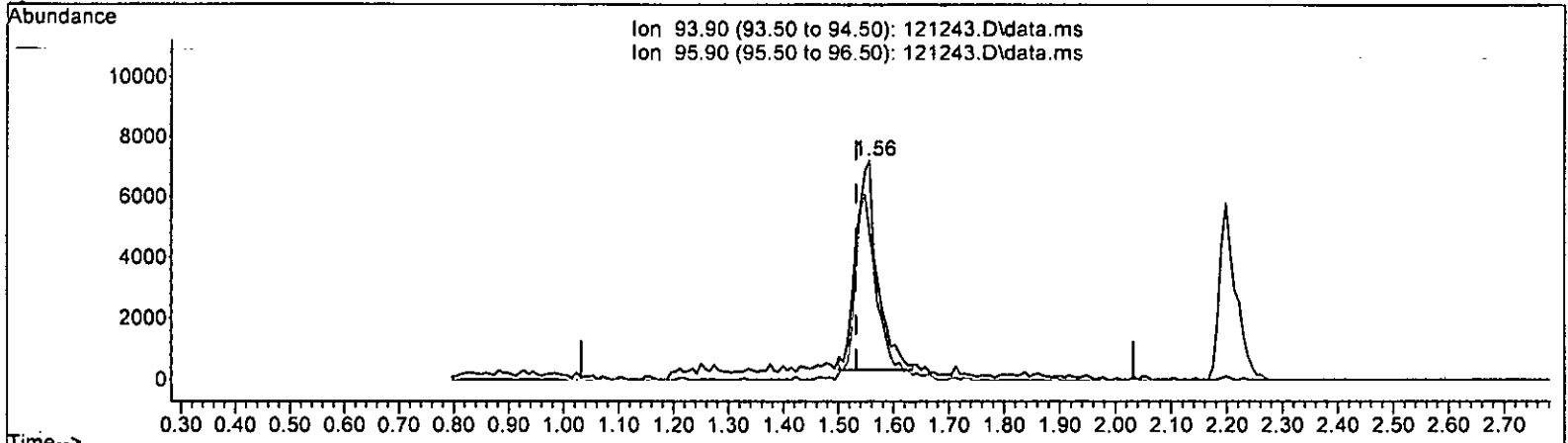
*12/15 LM*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121243.D\data.ms

(7) Bromomethane (TMP)

1.556min (+ 0.024) 10.175 ppb m

response	18377
Ion	Exp% Act%
93.90	100.00 100.00
95.90	69.20 67.66
0.00	0.00 0.00
0.00	0.00 0.00

*12/15 JLM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	104	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.501	5.0	98	0.00
4 TMP Dichlorodifluoromethane	10.000	9.073	9.3	96	0.02
5 TMP Chloromethane	10.000	8.868	11.3	94	0.00
6 TMP Vinyl chloride	10.000	9.860	1.4	100	0.00
7 TMP Bromomethane	10.000	10.175	-1.8	117	0.02
8 TMP Chloroethane	10.000	9.798	2.0	104	0.02
9 TMP Trichlorofluoromethane	10.000	9.673	3.3	103	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	48.632	2.7	109	0.00
12 TMP 1,1-Dichloroethene	10.000	10.504	-5.0	108	0.02
13 TMP Hexane	10.000	9.308	6.9	96	0.00
14 TMP Methylene chloride	10.000	10.260	-2.6	99	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	48.252	3.5	101	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.209	-2.1	102	0.02
17 TMP trans-1,2-Dichloroethene	10.000	10.142	-1.4	104	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	10.114	-1.1	105	0.00
19 TMP 1,1-Dichloroethane	10.000	10.154	-1.5	103	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.280	-2.8	103	0.00
21 TMP 2,2-Dichloropropane	10.000	8.459	15.4	88	0.00
22 TMP cis-1,2-Dichloroethene	10.000	10.077	-0.8	103	0.00
23 TMP Chloroform	10.000	9.577	4.2	104	0.00
24 TMP 2-Butanone (MEK)	50.000	48.688	2.6	104	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	10.204	-2.0	103	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	9.756	2.4	102	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.187	-1.9	105	0.00
28 TMP 1,1-Dichloropropene	10.000	9.736	2.6	100	0.00
29 TMP Carbon tetrachloride	10.000	10.517	-5.2	107	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.150	8.5	90	0.00
31 TMP Benzene	10.000	9.992	0.1	103	0.00
32 TMP Trichloroethene	10.000	10.467	-4.7	108	0.00
33 TMP 1,2-Dichloropropane	10.000	9.694	3.1	101	0.00
34 TMP Bromodichloromethane	10.000	9.792	2.1	103	0.00
35 S Toluene-d8	10.000	9.643	3.6	102	0.00
36 TMP Dibromomethane	10.000	10.247	-2.5	103	0.00
37 TMP 4-Methyl-2-pentanone	50.000	50.643	-1.3	108	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.758	2.4	104	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	103	0.00
40 TMP Toluene	10.000	10.073	-0.7	104	0.01
41 TMP trans-1,3-Dichloropropene	10.000	10.189	-1.9	106	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.266	-2.7	104	0.00
43 TMP 2-Hexanone	50.000	52.975	-6.0	107	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.494	-4.9	102	0.00
45 TMP Tetrachloroethene	10.000	9.951	0.5	105	0.00
46 TMP Dibromochloromethane	10.000	10.772	-7.7	111	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.211	-2.1	105	0.00
48 TMP Chlorobenzene	10.000	10.379	-3.8	106	0.00
49 TMP Ethylbenzene	10.000	10.238	-2.4	104	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.497	-5.0	103	0.00
51 TMP m,p-Xylene	20.000	20.390	-2.0	104	0.00
52 TMP o-Xylene	10.000	10.454	-4.5	105	0.00
53 TMP Styrene	10.000	10.399	-4.0	104	0.00
54 TMP Isopropylbenzene	10.000	10.225	-2.2	103	0.00
55 TMP Bromoform	10.000	9.966	0.3	102	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	101	0.00
57 S 4-Bromofluorobenzene	10.000	10.210	-2.1	102	0.00
58 TMP n-Propylbenzene	10.000	10.435	-4.4	104	0.00
59 TMP Bromobenzene	10.000	10.450	-4.5	105	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.071	-0.7	104	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.900	1.0	99	0.00
62 TMP 1,2,3-Trichloropropane	10.000	10.281	-2.8	105	0.00
63 TMP 2-Chlorotoluene	10.000	10.084	-0.8	103	0.00
64 TMP 4-Chlorotoluene	10.000	10.212	-2.1	105	0.00
65 TMP tert-Butylbenzene	10.000	10.358	-3.6	105	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.448	-4.5	106	0.00
67 TMP sec-Butylbenzene	10.000	10.355	-3.6	106	0.00
68 TMP p-Isopropyltoluene	10.000	10.467	-4.7	104	0.00
69 TMP 1,3-Dichlorobenzene	10.000	10.511	-5.1	108	0.00
70 TMP 1,4-Dichlorobenzene	10.000	10.382	-3.8	106	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.521	-5.2	106	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	10.411	-4.1	109	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	10.961	-9.6	112	0.00
74 TMP Hexachlorobutadiene	10.000	10.570	-5.7	107	0.00
75 TMP Naphthalene	10.000	10.130	-1.3	109	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	11.124	-11.2	111	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	104	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.251	4.9	98	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.625	9.2	96	0.02
5 TMP	Chloromethane	0.883	0.783	11.3	94	0.00
6 TMP	Vinyl chloride	0.732	0.721	1.5	100	0.00
7 TMP	Bromomethane	0.368	0.375	-1.9	117	0.02
8 TMP	Chloroethane	0.336	0.330	1.8	104	0.02
9 TMP	Trichlorofluoromethane	0.870	0.841	3.3	103	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.036	2.7	109	0.00
12 TMP	1,1-Dichloroethene	0.240	0.252	-5.0	108	0.02
13 TMP	Hexane	0.434	0.404	6.9	96	0.00
14 TMP	Methylene chloride	0.269	0.276	-2.6	99	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.045	2.2	101	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.748	-2.0	102	0.02
17 TMP	trans-1,2-Dichloroethene	0.272	0.276	-1.5	104	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.943	-1.2	105	0.00
19 TMP	1,1-Dichloroethane	0.504	0.512	-1.6	103	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.304	-2.7	103	0.00
21 TMP	2,2-Dichloropropane	0.316	0.267	15.5	88	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.289	-1.0	103	0.00
23 TMP	Chloroform	0.477	0.457	4.2	104	0.00
24 TMP	2-Butanone (MEK)	0.183	0.178	2.7	104	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.708	-2.0	103	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.403	2.4	102	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.448	-1.8	105	0.00
28 TMP	1,1-Dichloropropene	0.362	0.353	2.5	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.386	-5.2	107	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.055	8.3	90	0.00
31 TMP	Benzene	0.999	0.998	0.1	103	0.00
32 TMP	Trichloroethene	0.316	0.330	-4.4	108	0.00
33 TMP	1,2-Dichloropropane	0.296	0.287	3.0	101	0.00
34 TMP	Bromodichloromethane	0.357	0.350	2.0	103	0.00
35 S	Toluene-d8	0.960	0.926	3.5	102	0.00
36 TMP	Dibromomethane	0.169	0.173	-2.4	103	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.053	-1.9	108	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.418	2.6	104	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
40 TMP	Toluene	0.858	0.864	-0.7	104	0.01
41 TMP	trans-1,3-Dichloropropene	0.484	0.493	-1.9	106	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.271	-2.7	104	0.00
43 TMP	2-Hexanone	0.335	0.355	-6.0	107	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.493	-4.9	102	0.00
45 TMP Tetrachloroethene	0.342	0.341	0.3	105	0.00
46 TMP Dibromochloromethane	0.354	0.381	-7.6	111	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.334	-2.1	105	0.00
48 TMP Chlorobenzene	0.925	0.960	-3.8	106	0.00
49 TMP Ethylbenzene	1.611	1.650	-2.4	104	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.349	-4.8	103	0.00
51 TMP m,p-Xylene	0.607	0.619	-2.0	104	0.00
52 TMP o-Xylene	0.595	0.622	-4.5	105	0.00
53 TMP Styrene	0.973	1.012	-4.0	104	0.00
54 TMP Isopropylbenzene	1.564	1.599	-2.2	103	0.00
55 TMP Bromoform	0.252	0.251	0.4	102	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
57 S 4-Bromofluorobenzene	0.844	0.862	-2.1	102	0.00
58 TMP n-Propylbenzene	3.281	3.424	-4.4	104	0.00
59 TMP Bromobenzene	0.770	0.805	-4.5	105	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.460	-0.7	104	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.691	1.0	99	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.602	-2.7	105	0.00
63 TMP 2-Chlorotoluene	1.941	1.957	-0.8	103	0.00
64 TMP 4-Chlorotoluene	2.281	2.329	-2.1	105	0.00
65 TMP tert-Butylbenzene	2.141	2.217	-3.5	105	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.587	-4.5	106	0.00
67 TMP sec-Butylbenzene	3.103	3.213	-3.5	106	0.00
68 TMP p-Isopropyltoluene	2.672	2.797	-4.7	104	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.507	-5.1	108	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.517	-3.8	106	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.452	-5.2	106	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.161	-3.9	109	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.074	-9.6	112	0.00
74 TMP Hexachlorobutadiene	0.542	0.572	-5.5	107	0.00
75 TMP Naphthalene	2.597	2.631	-1.3	109	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	1.006	-11.3	111	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	49036	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	37606	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	20495	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	12292	9.501	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	95.00%
30) 1,2-Dichloroethane-d4	4.36	102	2707	9.150	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	91.50%
35) Toluene-d8	5.98	98	45397	9.643	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	96.40%
57) 4-Bromofluorobenzene	8.38	95	17667	10.210	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	102.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.09	85	30632	9.073	ppb	100
5) Chloromethane	1.23	50	38388	8.868	ppb	100
6] Vinyl chloride	1.30	62	35379	9.860	ppb	100
7) Bromomethane	1.56	94	18377m	10.175	ppb	
8] Chloroethane	1.61	64	16164	9.798	ppb	100
9) Trichlorofluoromethane	1.80	101	41260	9.673	ppb	100
10) 2-Propanol	2.40	45	277	No Calib		
11) Acetone	2.27	58	8878	48.632	ppb	100
12] 1,1-Dichloroethene	2.20	96	12381	10.504	ppb	100
13) Hexane	3.06	57	19798	9.308	ppb	100
14) Methylene chloride	2.61	84	13535	10.260	ppb	100
15) t-Butyl alcohol (TBA)	2.74	59	10927	48.252	ppb	100
16] Methyl t-butyl ether (...)	2.85	73	36701	10.209	ppb	100
17] trans-1,2-Dichloroethene	2.83	96	13539	10.142	ppb	100
18) Diisopropyl ether (DIPE)	3.25	45	46222	10.114	ppb	100
19] 1,1-Dichloroethane	3.19	63	25109	10.154	ppb	100
20) Ethyl t-butyl ether (E...)	3.55	87	14921	10.280	ppb	100
21) 2,2-Dichloropropane	3.67	77	13107	8.459	ppb	100
22] cis-1,2-Dichloroethene	3.67	96	14151	10.077	ppb	100
23) Chloroform	3.95	83	22401	9.577	ppb	100
24) 2-Butanone (MEK)	3.71	43	43663	48.688	ppb	100
25) t-Amyl methyl ether (T...)	4.50	73	34702	10.204	ppb	100
26] 1,2-Dichloroethane (EDC)	4.42	62	19774	9.756	ppb	100
27] 1,1,1-Trichloroethane	4.08	97	21987	10.187	ppb	100
28) 1,1-Dichloropropene	4.22	75	17293	9.736	ppb	100
29) Carbon tetrachloride	4.22	117	18932	10.517	ppb	100
31] Benzene	4.39	78	48945	9.992	ppb	100
32] Trichloroethene	4.93	95	16197	10.467	ppb	100
33) 1,2-Dichloropropane	5.13	63	14084	9.694	ppb	100
34) Bromodichloromethane	5.37	83	17162	9.792	ppb	100
36) Dibromomethane	5.23	93	8487	10.247	ppb	100

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

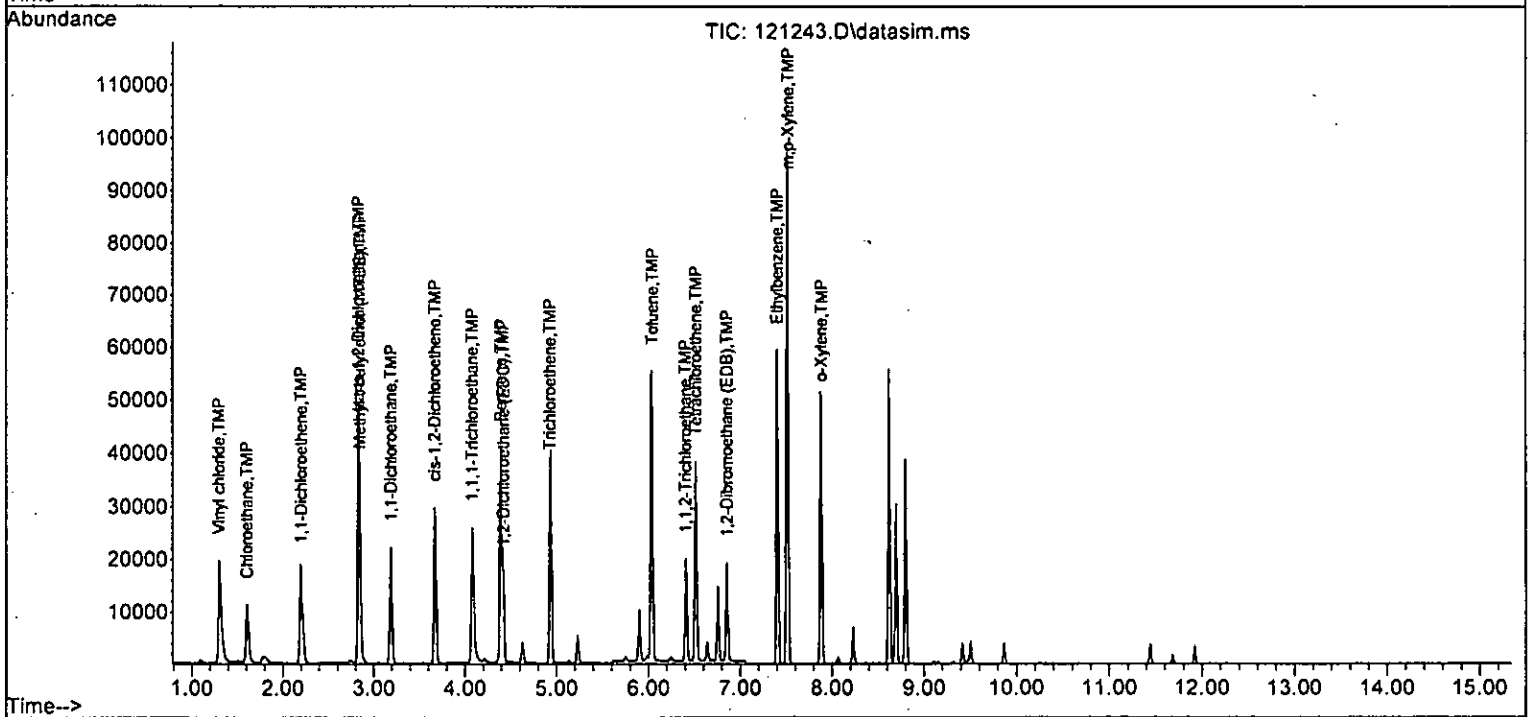
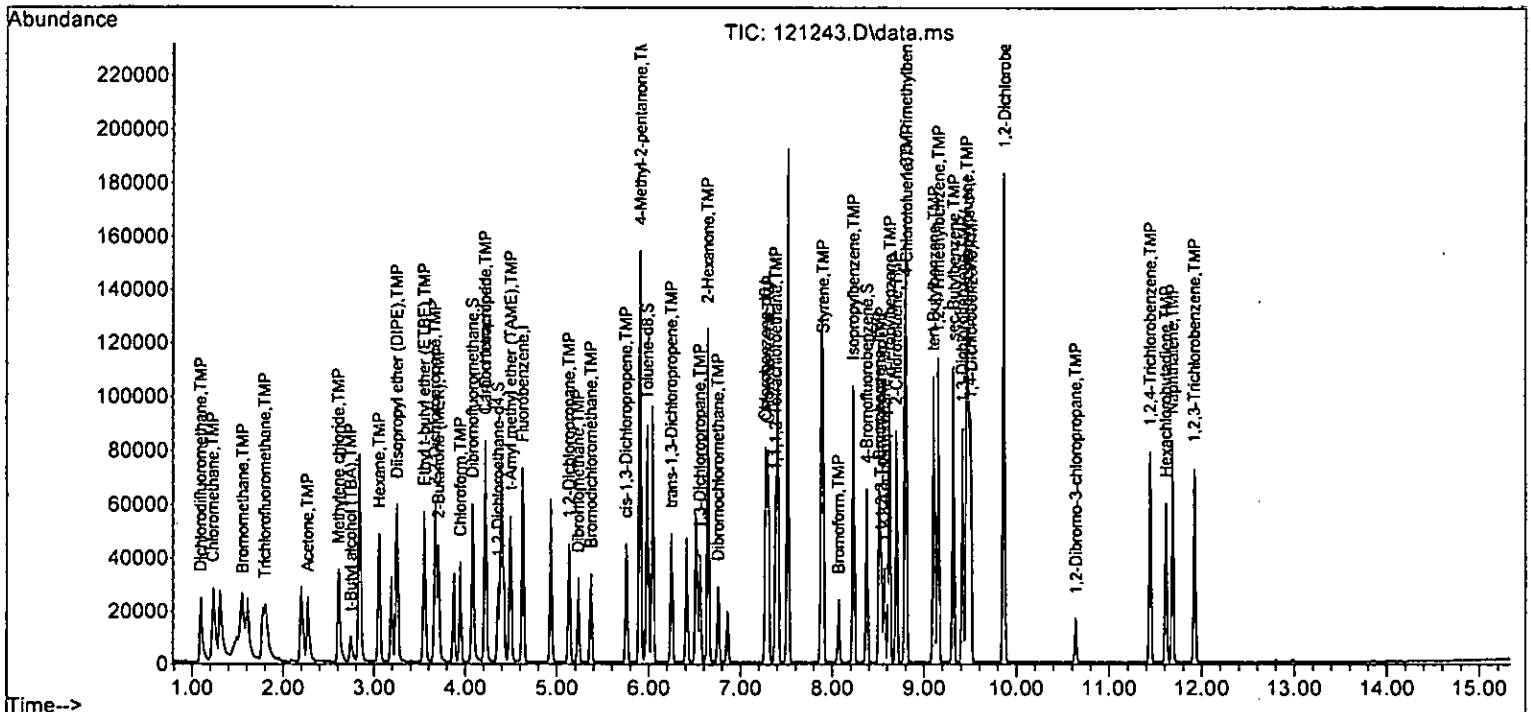
Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	12959	50.643	ppb	100
38) cis-1,3-Dichloropropene	5.75	75	20507	9.758	ppb	100
40] Toluene	6.04	92	32485	10.073	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	18530	10.189	ppb	100
42] 1,1,2-Trichloroethane	6.40	83	10181	10.266	ppb	100
43) 2-Hexanone	6.64	43	66817	52.975	ppb	100
44) 1,3-Dichloropropane	6.55	76	18536	10.494	ppb	100
45] Tetrachloroethene	6.51	164	12805	9.951	ppb	100
46) Dibromochloromethane	6.75	129	14329	10.772	ppb	100
47] 1,2-Dibromoethane (EDB)	6.85	107	12569	10.211	ppb	100
48) Chlorobenzene	7.30	112	36111	10.379	ppb	100
49] Ethylbenzene	7.40	91	62038	10.238	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	13141	10.497	ppb	100
51] m,p-Xylene	7.52	106	46570	20.390	ppb	100
52] o-Xylene	7.88	106	23388	10.454	ppb	100
53) Styrene	7.90	104	38045	10.399	ppb	100
54) Isopropylbenzene	8.23	105	60137	10.225	ppb	100
55) Bromoform	8.07	173	9453	9.966	ppb	100
58) n-Propylbenzene	8.63	91	70177	10.435	ppb	100
59) Bromobenzene	8.51	156	16501	10.450	ppb	100
60) 1,3,5-Trimethylbenzene	8.80	105	50420	10.071	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	14156	9.900	ppb	100
62) 1,2,3-Trichloropropane	8.57	75	12344	10.281	ppb	100
63) 2-Chlorotoluene	8.70	91	40107	10.084	ppb	100
64) 4-Chlorotoluene	8.81	91	47734	10.212	ppb	100
65) tert-Butylbenzene	9.10	119	45446	10.358	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	53023	10.448	ppb	100
67) sec-Butylbenzene	9.32	105	65853	10.355	ppb	100
68) p-Isopropyltoluene	9.46	119	57318	10.467	ppb	100
69) 1,3-Dichlorobenzene	9.42	146	30894	10.511	ppb	100
70) 1,4-Dichlorobenzene	9.51	146	31084	10.382	ppb	100
71) 1,2-Dichlorobenzene	9.86	146	29754	10.521	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.64	75	3306	10.411	ppb	100
73) 1,2,4-Trichlorobenzene	11.44	180	22011	10.961	ppb	100
74) Hexachlorobutadiene	11.61	225	11732	10.570	ppb	100
75) Naphthalene	11.68	128	53915	10.130	ppb	100
76) 1,2,3-Trichlorobenzene	11.92	180	20608	11.124	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121243.D  
Acq On : 13 Dec 2022 04:13 am  
Operator : LM  
Sample : 10 ppb 8260 SCV 68-26C  
Misc : soil/water  
ALS Vial : 21 Sample Multiplier: 1  
InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
Quant Method : D:\Methods\Inst11\VB121222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
Qlast Update : Tue Dec 13 13:28:26 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M





**EPA 8260D**  
**CCV Summaries**

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	101	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 5 Dibromofluoromethane	10.000	10.086	-0.9	103	0.00
4 TMP Dichlorodifluoromethane	10.000	9.891	1.1	100	0.00
5 TMP Chloromethane	10.000	10.040	-0.4	106	0.00
6 TMP Vinyl chloride	10.000	9.968	0.3	98	0.00
7 TMP Bromomethane	10.000	8.916	10.8	96	0.00
8 TMP Chloroethane	10.000	10.734	-7.3	100	-0.02
9 TMP Trichlorofluoromethane	10.000	9.711	2.9	93	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	51.712	-3.4	106	0.00
12 TMP 1,1-Dichloroethene	10.000	10.128	-1.3	99	0.00
13 TMP Hexane	10.000	10.263	-2.6	103	0.00
14 TMP Methylene chloride	10.000	10.194	-1.9	105	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	48.977	2.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.315	-3.1	98	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.448	-4.5	98	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.604	4.0	101	0.00
19 TMP 1,1-Dichloroethane	10.000	10.204	-2.0	99	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	9.765	2.3	96	0.00
21 TMP 2,2-Dichloropropane	10.000	10.400	-4.0	107	0.00
22 TMP cis-1,2-Dichloroethene	10.000	9.989	0.1	98	0.00
23 TMP Chloroform	10.000	9.905	1.0	103	0.00
24 TMP 2-Butanone (MEK)	50.000	47.715	4.6	89	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	9.614	3.9	99	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	10.112	-1.1	99	0.00
27 TMP 1,1,1-Trichloroethane	10.000	9.788	2.1	98	0.00
28 TMP 1,1-Dichloropropene	10.000	9.938	0.6	101	0.00
29 TMP Carbon tetrachloride	10.000	9.862	1.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.287	7.1	93	0.00
31 TMP Benzene	10.000	9.924	0.8	99	0.00
32 TMP Trichloroethene	10.000	9.563	4.4	93	0.00
33 TMP 1,2-Dichloropropane	10.000	9.385	6.2	101	0.00
34 TMP Bromodichloromethane	10.000	9.171	8.3	97	0.00
35 S Toluene-d8	10.000	9.876	1.2	97	0.00
36 TMP Dibromomethane	10.000	9.307	6.9	97	0.00
37 TMP 4-Methyl-2-pentanone	50.000	47.735	4.5	95	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.482	5.2	97	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	101	0.00
40 TMP Toluene	10.000	9.654	3.5	97	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.740	2.6	99	0.00
42 TMP 1,1,2-Trichloroethane	10.000	9.471	5.3	97	0.00
43 TMP 2-Hexanone	50.000	50.072	-0.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	9.584	4.2	98	0.00
45 TMP Tetrachloroethene	10.000	9.798	2.0	100	0.00
46 TMP Dibromochloromethane	10.000	9.793	2.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	9.799	2.0	99	0.00
48 TMP Chlorobenzene	10.000	9.786	2.1	102	0.00
49 TMP Ethylbenzene	10.000	10.045	-0.4	97	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.447	5.5	101	0.00
51 TMP m,p-Xylene	20.000	19.517	2.4	98	0.00
52 TMP o-Xylene	10.000	9.708	2.9	97	0.00
53 TMP Styrene	10.000	9.612	3.9	99	0.00
54 TMP Isopropylbenzene	10.000	9.373	6.3	97	0.00
55 TMP Bromoform	10.000	9.390	6.1	99	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.978	0.2	101	0.00
58 TMP n-Propylbenzene	10.000	9.795	2.1	99	0.00
59 TMP Bromobenzene	10.000	9.582	4.2	99	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.546	4.5	98	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	10.527	-5.3	108	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.533	4.7	98	0.00
63 TMP 2-Chlorotoluene	10.000	9.190	8.1	97	0.00
64 TMP 4-Chlorotoluene	10.000	9.450	5.5	97	0.00
65 TMP tert-Butylbenzene	10.000	9.662	3.4	99	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.292	7.1	97	0.00
67 TMP sec-Butylbenzene	10.000	9.717	2.8	99	0.00
68 TMP p-Isopropyltoluene	10.000	9.623	3.8	97	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.610	3.9	101	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.437	5.6	98	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.844	1.6	98	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.253	7.5	101	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.367	6.3	98	0.00
74 TMP Hexachlorobutadiene	10.000	9.892	1.1	100	0.00
75 TMP Naphthalene	10.000	8.801	12.0	94	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.341	6.6	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	101	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.266	-0.8	103	0.00
4 TMP Dichlorodifluoromethane	0.712	0.704	1.1	100	0.00
5 TMP Chloromethane	0.951	0.871	8.4	106	0.00
6 TMP Vinyl chloride	0.862	0.746	13.5	98	0.00
7 TMP Bromomethane	0.441	0.432	2.0	96	0.00
8 TMP Chloroethane	0.341	0.357	-4.7	100	-0.02
9 TMP Trichlorofluoromethane	0.899	0.873	2.9	93	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.032	-3.2	106	0.00
12 TMP 1,1-Dichloroethene	0.271	0.251	7.4	99	0.00
13 TMP Hexane	0.469	0.440	6.2	103	0.00
14 TMP Methylene chloride	0.269	0.286	-6.3	105	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.763	6.0	98	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.279	11.1	98	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.915	4.0	101	0.00
19 TMP 1,1-Dichloroethane	0.547	0.508	7.1	99	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.300	2.3	96	0.00
21 TMP 2,2-Dichloropropane	0.347	0.320	7.8	107	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.292	11.2	98	0.00
23 TMP Chloroform	0.477	0.472	1.0	103	0.00
24 TMP 2-Butanone (MEK)	0.173	0.159	8.1	89	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.710	3.9	99	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.398	16.9	99	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.454	8.1	98	0.00
28 TMP 1,1-Dichloropropene	0.368	0.366	0.5	101	0.00
29 TMP Carbon tetrachloride	0.396	0.391	1.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	93	0.00
31 TMP Benzene	1.103	1.007	8.7	99	0.00
32 TMP Trichloroethene	0.368	0.305	17.1	93	0.00
33 TMP 1,2-Dichloropropane	0.315	0.295	6.3	101	0.00
34 TMP Bromodichloromethane	0.375	0.344	8.3	97	0.00
35 S Toluene-d8	0.975	0.963	1.2	97	0.00
36 TMP Dibromomethane	0.181	0.169	6.6	97	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.052	3.7	95	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.420	5.2	97	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
40 TMP Toluene	0.986	0.833	15.5	97	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.494	2.8	99	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.263	7.7	97	0.00
43 TMP 2-Hexanone	0.312	0.312	0.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.464	4.1	98	0.00
45 TMP Tetrachloroethene	0.420	0.324	22.9#	100	0.00
46 TMP Dibromochloromethane	0.366	0.359	1.9	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.317	16.4	99	0.00
48 TMP Chlorobenzene	0.957	0.937	2.1	102	0.00
49 TMP Ethylbenzene	1.885	1.609	14.6	97	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.338	5.6	101	0.00
51 TMP m,p-Xylene	0.705	0.599	15.0	98	0.00
52 TMP o-Xylene	0.683	0.584	14.5	97	0.00
53 TMP Styrene	1.004	0.965	3.9	99	0.00
54 TMP Isopropylbenzene	1.606	1.505	6.3	97	0.00
55 TMP Bromoform	0.269	0.253	5.9	99	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.862	0.2	101	0.00
58 TMP n-Propylbenzene	3.386	3.317	2.0	99	0.00
59 TMP Bromobenzene	0.790	0.757	4.2	99	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.369	4.6	98	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.772	-5.3	108	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.571	4.7	98	0.00
63 TMP 2-Chlorotoluene	2.054	1.888	8.1	97	0.00
64 TMP 4-Chlorotoluene	2.355	2.225	5.5	97	0.00
65 TMP tert-Butylbenzene	2.194	2.119	3.4	99	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.392	7.1	97	0.00
67 TMP sec-Butylbenzene	3.160	3.070	2.8	99	0.00
68 TMP p-Isopropyltoluene	2.706	2.604	3.8	97	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.412	3.9	101	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.413	5.7	98	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.339	1.6	98	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.146	7.6	101	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.916	6.3	98	0.00
74 TMP Hexachlorobutadiene	0.516	0.510	1.2	100	0.00
75 TMP Naphthalene	2.401	2.114	12.0	94	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.827	6.6	97	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	43966	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35885	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19188	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	11687	10.086	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.90%	
30) 1,2-Dichloroethane-d4	4.35	102	2434	9.287	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery	=	92.90%	
35) Toluene-d8	5.98	98	42355	9.876	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery	=	98.80%	
57) 4-Bromofluorobenzene	8.38	95	16542	9.978	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery	=	99.80%	
Target Compounds						
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.08	85	30942	9.891	ppb	93
5) Chloromethane	1.22	50	38275	10.040	ppb	91
6] Vinyl chloride	1.29	62	32780	9.968	ppb	96
7) Bromomethane	1.53	94	19001	8.916	ppb	71
8] Chloroethane	1.59	64	15701	10.734	ppb	81
9) Trichlorofluoromethane	1.79	101	38390	9.711	ppb	63
10) 2-Propanol	2.39	45	217	No Calib		
11) Acetone	2.26	58	7094	51.712	ppb	# 78
12] 1,1-Dichloroethene	2.18	96	11015	10.128	ppb	# 82
13) Hexane	3.05	57	19367	10.263	ppb	96
14) Methylene chloride	2.60	84	12596	10.194	ppb	83
15) t-Butyl alcohol (TBA)	2.73	59	9963	48.977	ppb	93
16] Methyl t-butyl ether (...)	2.83	73	33556	10.315	ppb	100
17] trans-1,2-Dichloroethene	2.82	96	12276	10.448	ppb	87
18) Diisopropyl ether (DIPE)	3.24	45	40225	9.604	ppb	98
19] 1,1-Dichloroethane	3.18	63	22329	10.204	ppb	95
20) Ethyl t-butyl ether (E...)	3.55	87	13194	9.765	ppb	# 81
21) 2,2-Dichloropropane	3.66	77	14070	10.400	ppb	87
22] cis-1,2-Dichloroethene	3.66	96	12835	9.989	ppb	87
23) Chloroform	3.94	83	20752	9.905	ppb	88
24) 2-Butanone (MEK)	3.70	43	35017	47.715	ppb	99
25) t-Amyl methyl ether (T...)	4.49	73	31222	9.614	ppb	98
26] 1,2-Dichloroethane (EDC)	4.41	62	17508	10.112	ppb	99
27] 1,1,1-Trichloroethane	4.08	97	19945	9.788	ppb	98
28) 1,1-Dichloropropene	4.21	75	16088	9.938	ppb	91
29) Carbon tetrachloride	4.21	117	17173	9.862	ppb	96
31] Benzene	4.39	78	44275	9.924	ppb	98
32] Trichloroethene	4.93	95	13403	9.563	ppb	94
33) 1,2-Dichloropropane	5.13	63	12991	9.385	ppb	100
34) Bromodichloromethane	5.37	83	15131	9.171	ppb	90
36) Dibromomethane	5.23	93	7420	9.307	ppb	77

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

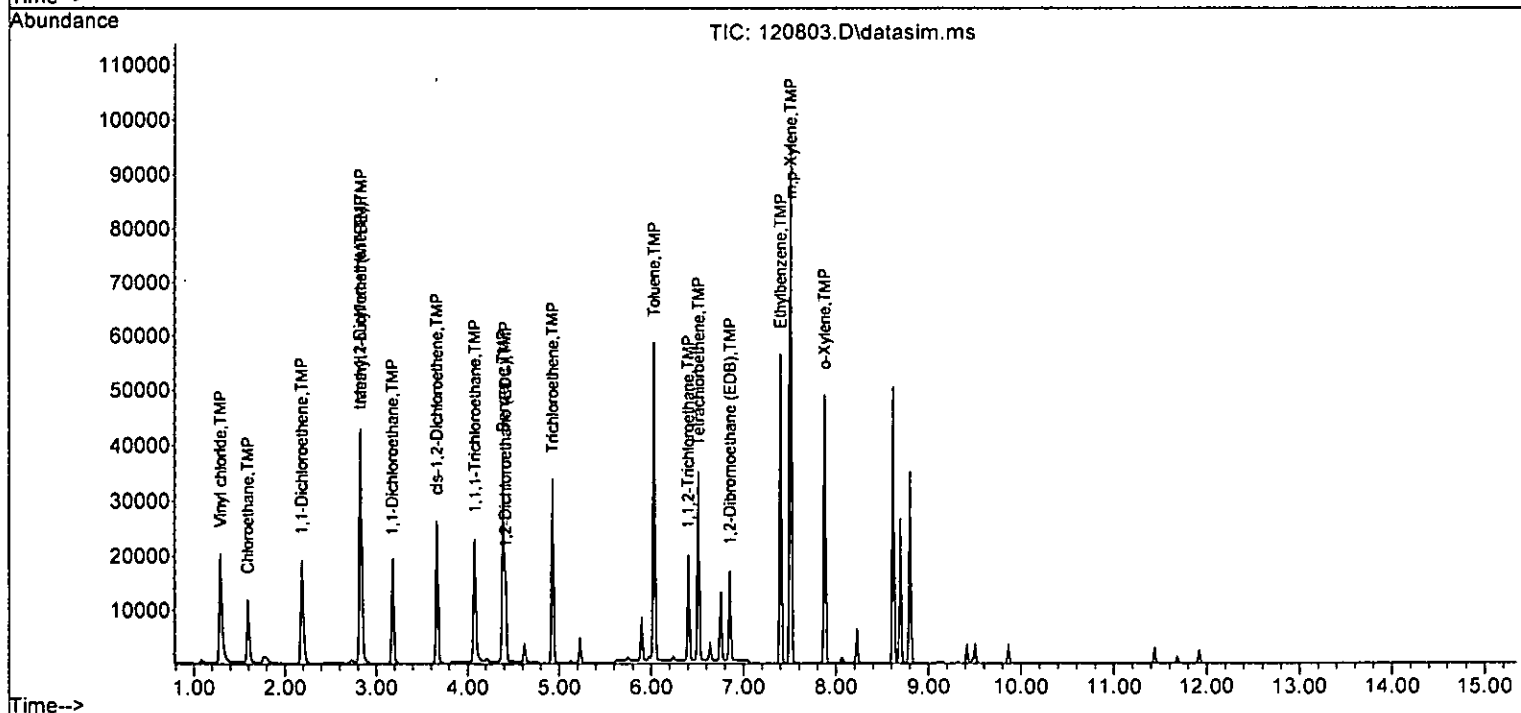
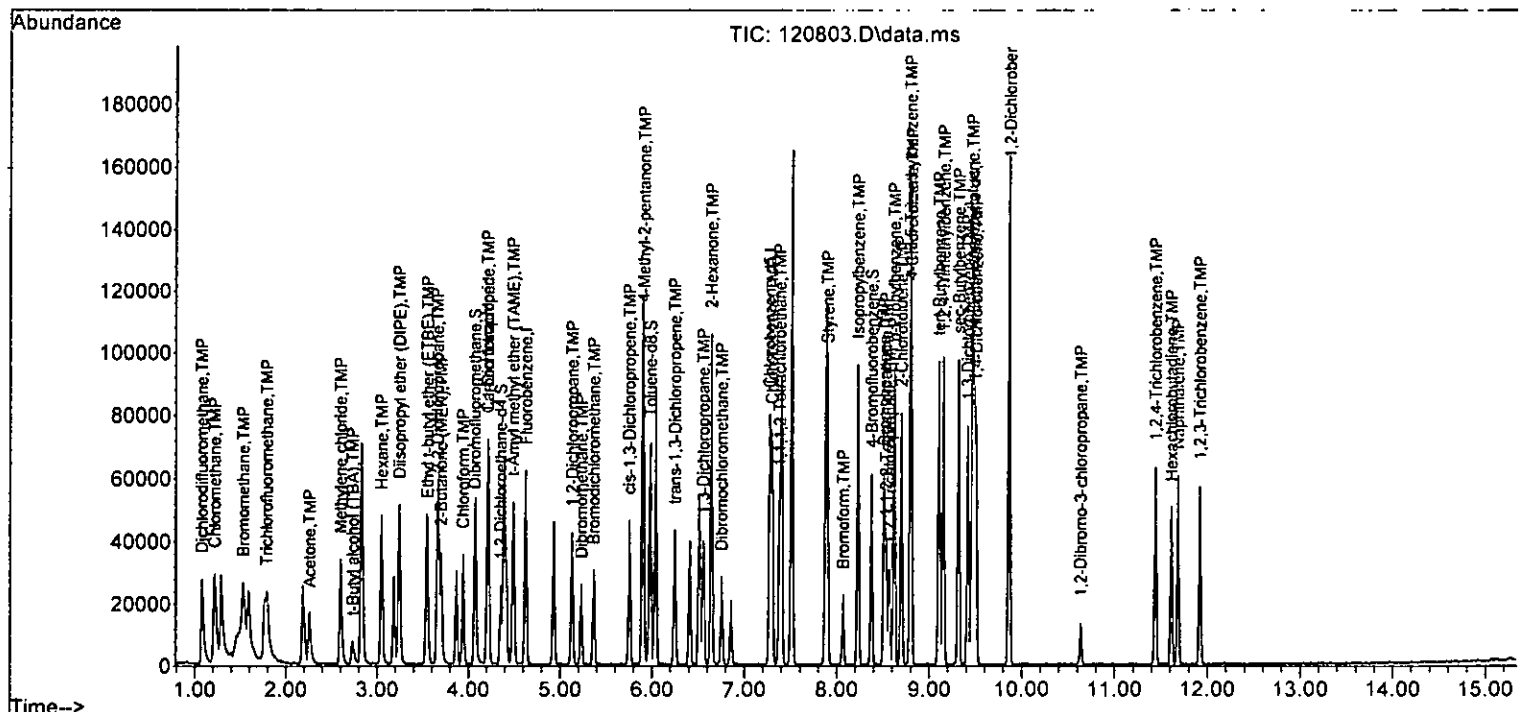
Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11364	47.735	ppb	92
38) cis-1,3-Dichloropropene	5.75	75	18471	9.482	ppb	93
40] Toluene	6.03	92	29904	9.654	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	17743	9.740	ppb	90
42] 1,1,2-Trichloroethane	6.40	83	9422	9.471	ppb	97
43) 2-Hexanone	6.64	43	55982	50.072	ppb	97
44) 1,3-Dichloropropane	6.55	76	16658	9.584	ppb	97
45] Tetrachloroethene	6.51	164	11634	9.798	ppb	98
46) Dibromochloromethane	6.75	129	12867	9.793	ppb	93
47] 1,2-Dibromoethane (EDB)	6.85	107	11358	9.799	ppb	99
48) Chlorobenzene	7.30	112	33615	9.786	ppb	96
49] Ethylbenzene	7.40	91	57722	10.045	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.38	131	12142	9.447	ppb	81
51] m,p-Xylene	7.51	106	42958	19.517	ppb	96
52] o-Xylene	7.88	106	20973	9.708	ppb #	68
53) Styrene	7.90	104	34635	9.612	ppb	91
54) Isopropylbenzene	8.23	105	54023	9.373	ppb	97
55) Bromoform	8.07	173	9066	9.390	ppb	99
58) n-Propylbenzene	8.62	91	63640	9.795	ppb	90
59) Bromobenzene	8.51	156	14516	9.582	ppb	87
60) 1,3,5-Trimethylbenzene	8.79	105	45454	9.546	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	14816	10.527	ppb	82
62) 1,2,3-Trichloropropane	8.57	75	10952	9.533	ppb	91
63) 2-Chlorotoluene	8.70	91	36225	9.190	ppb	97
64) 4-Chlorotoluene	8.81	91	42701	9.450	ppb	99
65) tert-Butylbenzene	9.10	119	40668	9.662	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	45907	9.292	ppb	96
67) sec-Butylbenzene	9.31	105	58916	9.717	ppb	99
68) p-Isopropyltoluene	9.46	119	49972	9.623	ppb	95
69) 1,3-Dichlorobenzene	9.41	146	27088	9.610	ppb	91
70) 1,4-Dichlorobenzene	9.50	146	27118	9.437	ppb	97
71) 1,2-Dichlorobenzene	9.86	146	25702	9.844	ppb	92
72) 1,2-Dibromo-3-chloropr...	10.63	75	2808	9.253	ppb	89
73) 1,2,4-Trichlorobenzene	11.44	180	17585	9.367	ppb	98
74) Hexachlorobutadiene	11.61	225	9786	9.892	ppb	91
75) Naphthalene	11.68	128	40555	8.801	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	15870	9.341	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM513\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCM513

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	84	0.01
2 TMP Ethanol	-1.000	0.000	0.0	55	0.00
3 S Dibromofluoromethane	10.000	8.780	12.2	71	0.00
4 TMP Dichlorodifluoromethane	10.000	11.076	-10.8	90	0.01
5 TMP Chloromethane	10.000	12.891	-28.9#	105	0.01
6 TMP Vinyl chloride	10.000	12.756	-27.6#	93	0.01
7 TMP Bromomethane	10.000	11.200	-12.0	84	0.01
8 TMP Chloroethane	10.000	9.926	0.7	76	0.00
9 TMP Trichlorofluoromethane	10.000	9.670	3.3	77	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	56.301	-12.6	101	0.01
12 TMP 1,1-Dichloroethene	10.000	11.619	-16.2	90	0.01
13 TMP Hexane	10.000	14.496	-45.0#	116	0.00
14 TMP Methylene chloride	10.000	13.026	-30.3#	107	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	67.986	-36.0#	113	0.01
16 TMP Methyl t-butyl ether (MTBE)	10.000	12.327	-23.3#	95	0.01
17 TMP trans-1,2-Dichloroethene	10.000	11.685	-16.9	91	0.01
18 TMP Diisopropyl ether (DIPE)	10.000	12.947	-29.5#	95	0.01
19 TMP 1,1-Dichloroethane	10.000	14.171	-41.7#	106	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.755	-7.6	86	0.01
21 TMP 2,2-Dichloropropane	10.000	12.618	-26.2#	97	0.00
22 TMP cis-1,2-Dichloroethene	10.000	11.480	-14.8	88	0.00
23 TMP Chloroform	10.000	11.025	-10.3	89	0.00
24 TMP 2-Butanone (MEK)	50.000	60.702	-21.4#	104	0.01
25 TMP t-Amyl methyl ether (TAME)	10.000	12.257	-22.6#	96	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	11.290	-12.9	86	0.01
27 TMP 1,1,1-Trichloroethane	10.000	10.114	-1.1	78	0.00
28 TMP 1,1-Dichloropropene	10.000	11.705	-17.1	96	0.00
29 TMP Carbon tetrachloride	10.000	8.322	16.8	69	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.634	3.7	79	0.00
31 TMP Benzene	10.000	14.325	-43.2#	107	0.00
32 TMP Trichloroethene	10.000	10.963	-9.6	83	0.00
33 TMP 1,2-Dichloropropane	10.000	14.439	-44.4#	108	0.00
34 TMP Bromodichloromethane	10.000	11.054	-10.5	89	0.00
35 S Toluene-d8	10.000	10.453	-4.5	84	0.00
36 TMP Dibromomethane	10.000	11.106	-11.1	88	0.00
37 TMP 4-Methyl-2-pentanone	50.000	54.648	-9.3	89	0.00
38 TMP cis-1,3-Dichloropropene	10.000	11.961	-19.6	99	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	67	0.00
40 TMP Toluene	10.000	13.765	-37.7#	92	0.00
41 TMP trans-1,3-Dichloropropene	10.000	13.482	-34.8#	94	0.00
42 TMP 1,1,2-Trichloroethane	10.000	15.528	-55.3#	103	0.00
43 TMP 2-Hexanone	50.000	78.305	-56.6#	107	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	14.457	-44.6#	97	0.00
45 TMP Tetrachloroethene	10.000	9.082	9.2	62	0.00
46 TMP Dibromochloromethane	10.000	9.298	7.0	63	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	12.343	-23.4#	79	0.00
48 TMP Chlorobenzene	10.000	10.348	-3.5	70	0.00
49 TMP Ethylbenzene	10.000	13.829	-38.3#	89	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	8.959	10.4	61	0.00
51 TMP m,p-Xylene	20.000	23.702	-18.5	76	0.00
52 TMP o-Xylene	10.000	11.222	-12.2	74	0.00
53 TMP Styrene	10.000	10.882	-8.8	74	0.00
54 TMP Isopropylbenzene	10.000	10.879	-8.8	74	0.00
55 TMP Bromoform	10.000	8.674	13.3	59	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	56	0.00
57 S 4-Bromofluorobenzene	10.000	12.726	-27.3#	71	0.00
58 TMP n-Propylbenzene	10.000	14.208	-42.1#	81	0.00
59 TMP Bromobenzene	10.000	9.965	0.4	57	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	12.001	-20.0#	70	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	17.873	-78.7#	103	0.00
62 TMP 1,2,3-Trichloropropane	10.000	16.348	-63.5#	92	0.00
63 TMP 2-Chlorotoluene	10.000	14.133	-41.3#	80	0.00
64 TMP 4-Chlorotoluene	10.000	13.921	-39.2#	79	0.00
65 TMP tert-Butylbenzene	10.000	10.323	-3.2	59	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	11.242	-12.4	66	0.00
67 TMP sec-Butylbenzene	10.000	12.219	-22.2#	70	0.00
68 TMP p-Isopropyltoluene	10.000	10.324	-3.2	60	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.920	0.8	57	0.00
70 TMP 1,4-Dichlorobenzene	10.000	10.130	-1.3	58	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.925	0.7	58	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	13.056	-30.6#	79	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.610	3.9	55	0.00
74 TMP Hexachlorobutadiene	10.000	8.918	10.8	53	0.00
75 TMP Naphthalene	10.000	10.533	-5.3	62	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.347	-3.5	61	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	97279	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	70618	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	36798	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	27208	8.780	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	87.80%	
30) 1,2-Dichloroethane-d4	4.45	102	5596	9.634	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	96.30%	
35) Toluene-d8	6.11	98	91405	10.453	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	104.50%	
57) 4-Bromofluorobenzene	8.51	95	28376	12.726	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	127.30%	
Target Compounds						
2) Ethanol	2.33	45	230	No Calib		Qvalue
4) Dichlorodifluoromethane	1.12	85	62754	11.076	ppb	93
5) Chloromethane	1.26	50	48394	12.891	ppb	94
6] Vinyl chloride	1.34	62	46307	12.756	ppb	100
7) Bromomethane	1.58	94	41960	11.200	ppb	95
8] Chloroethane	1.65	64	19292	9.926	ppb	95
9) Trichlorofluoromethane	1.83	101	95520	9.670	ppb	97
10) 2-Propanol	2.33	45	230	No Calib	#	
11) Acetone	2.33	58	13705	56.301	ppb	# 68
12] 1,1-Dichloroethene	2.27	96	28021	11.619	ppb	96
13) Hexane	3.16	57	33324	14.496	ppb	95
14) Methylene chloride	2.68	84	31728	13.026	ppb	95
15) t-Butyl alcohol (TBA)	2.82	59	14747	67.986	ppb	98
16] Methyl t-butyl ether (...)	2.93	73	71434	12.327	ppb	100
17] trans-1,2-Dichloroethene	2.92	96	31188	11.685	ppb	98
18) Diisopropyl ether (DIPE)	3.35	45	67189	12.947	ppb	97
19] 1,1-Dichloroethane	3.27	63	46960	14.171	ppb	94
20) Ethyl t-butyl ether (E...)	3.66	87	30046	10.755	ppb	89
21] 2,2-Dichloropropane	3.76	77	29925	12.618	ppb	88
22] cis-1,2-Dichloroethene	3.77	96	33083	11.480	ppb	85
23) Chloroform	4.04	83	47350	11.025	ppb	100
24) 2-Butanone (MEK)	3.79	43	66234	60.702	ppb	96
25) t-Amyl methyl ether (T...)	4.61	73	65662	12.257	ppb	93
26] 1,2-Dichloroethane (EDC)	4.53	62	33449	11.290	ppb	93
27] 1,1,1-Trichloroethane	4.19	97	46034	10.114	ppb	94
28) 1,1-Dichloropropene	4.33	75	36446	11.705	ppb	89
29) Carbon tetrachloride	4.33	117	40240	8.322	ppb	99
31] Benzene	4.50	78	110210	14.325	ppb	98
32] Trichloroethene	5.05	95	32430	10.963	ppb	# 70
33) 1,2-Dichloropropane	5.24	63	23429	14.439	ppb	94
34) Bromodichloromethane	5.48	83	34022	11.054	ppb	91
36) Dibromomethane	5.34	93	18657	11.106	ppb	# 71

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

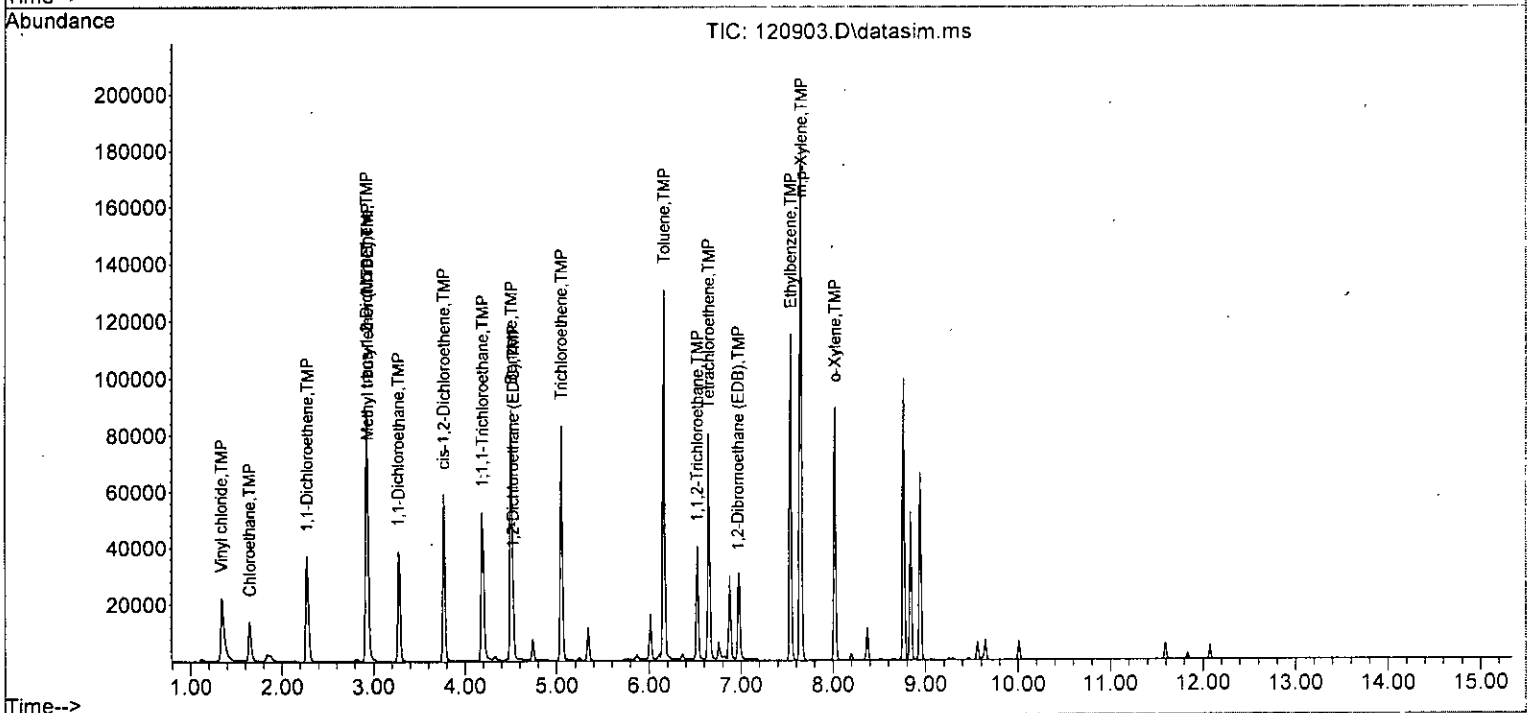
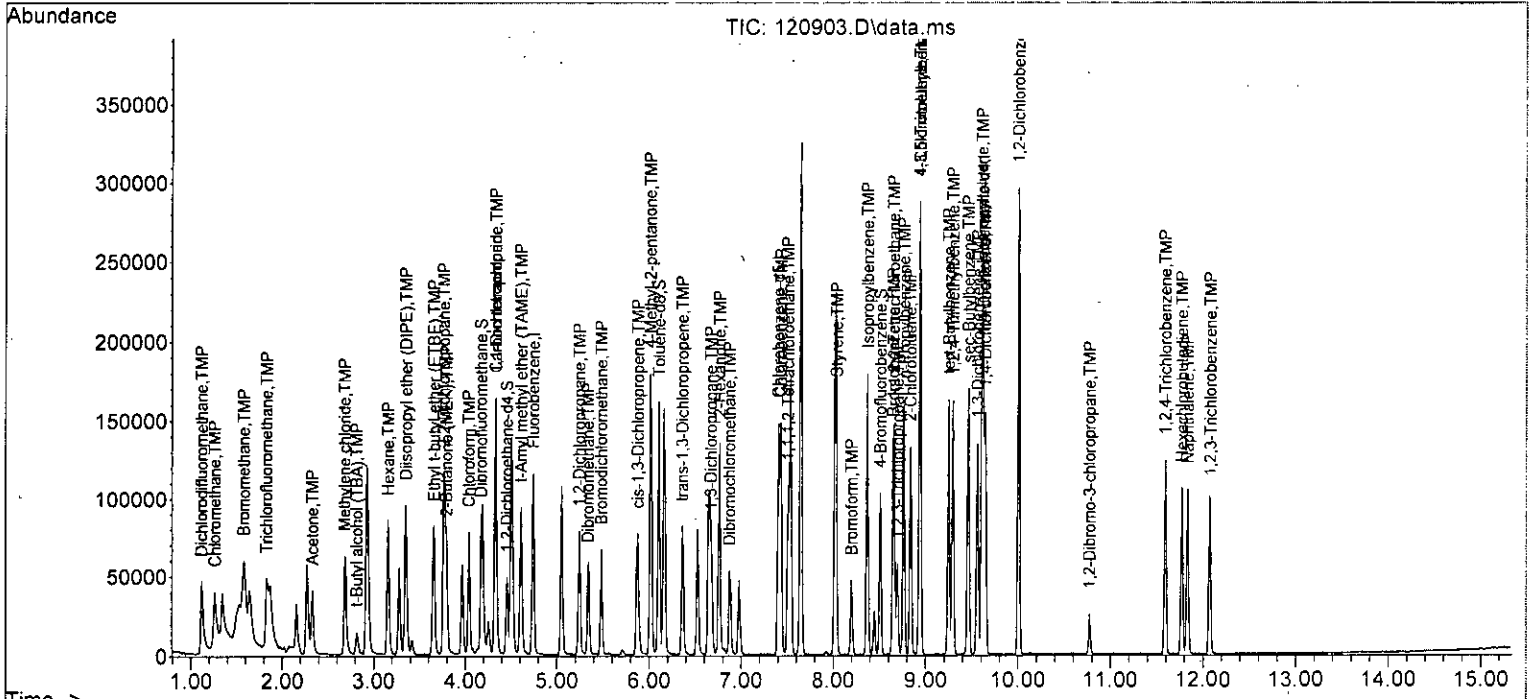
Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	21100	54.648	ppb	# 80
38) cis-1,3-Dichloropropene	5.88	75	38222	11.961	ppb	88
40] Toluene	6.16	92	67582	13.765	ppb	96
41) trans-1,3-Dichloropropene	6.36	75	33872	13.482	ppb	89
42] 1,1,2-Trichloroethane	6.53	83	21444	15.528	ppb	88
43) 2-Hexanone	6.76	43	78261	78.305	ppb	94
44) 1,3-Dichloropropane	6.67	76	34504	14.457	ppb	95
45] Tetrachloroethene	6.65	164	27899	9.082	ppb	98
46) Dibromochloromethane	6.87	129	27917	9.298	ppb	94
47] 1,2-Dibromoethane (EDB)	6.97	107	27323	12.343	ppb	99
48) Chlorobenzene	7.43	112	68916	10.348	ppb	89
49] Ethylbenzene	7.54	91	121053	13.829	ppb	93
50) 1,1,1,2-Tetrachloroethane	7.51	131	26109	8.959	ppb	92
51] m,p-Xylene	7.65	106	91279	23.702	ppb	87
52] o-Xylene	8.02	106	43266	11.222	ppb	86
53) Styrene	8.03	104	65206	10.882	ppb	93
54) Isopropylbenzene	8.37	105	103955	10.879	ppb	93
55) Bromoform	8.20	173	18524	8.674	ppb	99
58) n-Propylbenzene	8.77	91	118019	14.208	ppb	84
59) Bromobenzene	8.65	156	30113	9.965	ppb	# 79
60) 1,3,5-Trimethylbenzene	8.94	105	81069	12.001	ppb	91
61) 1,1,2,2-Tetrachloroethane	8.65	83	28140	17.873	ppb	95
62) 1,2,3-Trichloropropane	8.70	75	20297	16.348	ppb	91
63) 2-Chlorotoluene	8.84	91	66699	14.133	ppb	86
64) 4-Chlorotoluene	8.94	91	79501	13.921	ppb	77
65) tert-Butylbenzene	9.25	119	73922	10.323	ppb	91
66) 1,2,4-Trimethylbenzene	9.30	105	81711	11.242	ppb	94
67) sec-Butylbenzene	9.46	105	107721	12.219	ppb	93
68) p-Isopropyltoluene	9.61	119	91168	10.324	ppb	95
69) 1,3-Dichlorobenzene	9.56	146	53885	9.920	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	54260	10.130	ppb	96
71) 1,2-Dichlorobenzene	10.01	146	51935	9.925	ppb	96
72) 1,2-Dibromo-3-chloropr...	10.77	75	4351	13.056	ppb	# 71
73) 1,2,4-Trichlorobenzene	11.59	180	35265	9.610	ppb	98
74) Hexachlorobutadiene	11.77	225	19285	8.918	ppb	96
75) Naphthalene	11.83	128	75133	10.533	ppb	100
76) 1,2,3-Trichlorobenzene	12.08	180	30048	10.347	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	84	0.01
2 TMP Ethanol	0.000	0.000#	0.0	55	0.00
3 S Dibromofluoromethane	0.319	0.280	12.2	71	0.00
4 TMP Dichlorodifluoromethane	0.582	0.645	-10.8	90	0.01
5 TMP Chloromethane	0.386	0.497	-28.8#	105	0.01
6 TMP Vinyl chloride	0.373	0.476	-27.6#	93	0.01
7 TMP Bromomethane	0.385	0.431	-11.9	84	0.01
8 TMP Chloroethane	0.200	0.198	1.0	76	0.00
9 TMP Trichlorofluoromethane	1.015	0.982	3.3	77	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.028	-27.3#	101	0.01
12 TMP 1,1-Dichloroethene	0.248	0.288	-16.1	90	0.01
13 TMP Hexane	0.236	0.343	-45.3#	116	0.00
14 TMP Methylene chloride	0.247	0.326	-32.0#	107	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.030	-36.4#	113	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.734	-23.2#	95	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.321	-17.2	91	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.691	-29.6#	95	0.01
19 TMP 1,1-Dichloroethane	0.341	0.483	-41.6#	106	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.309	-7.7	86	0.01
21 TMP 2,2-Dichloropropane	0.297	0.308	-3.7	97	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.340	-14.9	88	0.00
23 TMP Chloroform	0.441	0.487	-10.4	89	0.00
24 TMP 2-Butanone (MEK)	0.102	0.136	-33.3#	104	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.675	-22.5#	96	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.344	-3.0	86	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.473	-1.1	78	0.00
28 TMP 1,1-Dichloropropene	0.320	0.375	-17.2	96	0.00
29 TMP Carbon tetrachloride	0.497	0.414	16.7	69	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.058	3.3	79	0.00
31 TMP Benzene	0.849	1.133	-33.5#	107	0.00
32 TMP Trichloroethene	0.304	0.333	-9.5	83	0.00
33 TMP 1,2-Dichloropropane	0.189	0.241	-27.5#	108	0.00
34 TMP Bromodichloromethane	0.316	0.350	-10.8	89	0.00
35 S Toluene-d8	0.899	0.940	-4.6	84	0.00
36 TMP Dibromomethane	0.173	0.192	-11.0	88	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.043	-7.5	89	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.393	-19.5	99	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	67	0.00
40 TMP Toluene	0.719	0.957	-33.1#	92	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.480	-34.8#	94	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.304	-49.0#	103	0.00
43 TMP 2-Hexanone	0.142	0.222	-56.3#	107	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.489	-44.7#	97	0.00
45 TMP Tetrachloroethene	0.443	0.395	10.8	62	0.00
46 TMP Dibromochloromethane	0.425	0.395	7.1	63	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.387	-15.5	79	0.00
48 TMP Chlorobenzene	0.943	0.976	-3.5	70	0.00
49 TMP Ethylbenzene	1.560	1.714	-9.9	89	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.370	10.4	61	0.00
51 TMP m,p-Xylene	0.718	0.646	10.0	76	0.00
52 TMP o-Xylene	0.611	0.613	-0.3	74	0.00
53 TMP Styrene	0.848	0.923	-8.8	74	0.00
54 TMP Isopropylbenzene	1.353	1.472	-8.8	74	0.00
55 TMP Bromoform	0.302	0.262	13.2	59	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	56	0.00
57 S 4-Bromofluorobenzene	0.606	0.771	-27.2#	71	0.00
58 TMP n-Propylbenzene	2.257	3.207	-42.1#	81	0.00
59 TMP Bromobenzene	0.821	0.818	0.4	57	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	2.203	-20.0	70	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.765	-76.7#	103	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.552	-63.8#	92	0.00
63 TMP 2-Chlorotoluene	1.282	1.813	-41.4#	80	0.00
64 TMP 4-Chlorotoluene	1.552	2.160	-39.2#	79	0.00
65 TMP tert-Butylbenzene	1.946	2.009	-3.2	59	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.221	-12.5	66	0.00
67 TMP sec-Butylbenzene	2.396	2.927	-22.2#	70	0.00
68 TMP p-Isopropyltoluene	2.400	2.478	-3.3	60	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.464	0.8	57	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.475	-1.3	58	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.411	0.8	58	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.118	-29.7#	79	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.958	3.9	55	0.00
74 TMP Hexachlorobutadiene	0.588	0.524	10.9	53	0.00
75 TMP Naphthalene	1.938	2.042	-5.4	62	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.817	-3.5	61	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq On : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	102	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.00
3 S	Dibromofluoromethane	10.000	10.461	-4.6	106	0.00
4 TMP	Dichlorodifluoromethane	10.000	10.571	-5.7	110	0.02
5 TMP	Chloromethane	10.000	9.861	1.4	103	0.00
6 TMP	Vinyl chloride	10.000	10.415	-4.1	104	0.00
7 TMP	Bromomethane	10.000	11.889	-18.9	134	0.02
8 TMP	Chloroethane	10.000	10.738	-7.4	111	0.02
9 TMP	Trichlorofluoromethane	10.000	9.865	1.3	103	-0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	50.000	41.731	16.5	91	0.00
12 TMP	1,1-Dichloroethene	10.000	10.095	-1.0	101	0.00
13 TMP	Hexane	10.000	10.122	-1.2	102	0.00
14 TMP	Methylene chloride	10.000	11.259	-12.6	107	0.00
15 TMP	t-Butyl alcohol (TBA)	50.000	45.609	8.8	94	0.00
16 TMP	Methyl t-butyl ether (MTBE)	10.000	10.316	-3.2	101	0.00
17 TMP	trans-1,2-Dichloroethene	10.000	10.163	-1.6	102	0.00
18 TMP	Diisopropyl ether (DIPE)	10.000	10.150	-1.5	103	0.00
19 TMP	1,1-Dichloroethane	10.000	10.198	-2.0	101	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	10.000	10.086	-0.9	99	0.00
21 TMP	2,2-Dichloropropane	10.000	10.112	-1.1	103	0.00
22 TMP	cis-1,2-Dichloroethene	10.000	10.128	-1.3	102	0.00
23 TMP	Chloroform	10.000	10.013	-0.1	106	0.00
24 TMP	2-Butanone (MEK)	50.000	48.231	3.5	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	10.000	10.155	-1.5	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	10.000	9.774	2.3	100	0.00
27 TMP	1,1,1-Trichloroethane	10.000	10.224	-2.2	103	0.00
28 TMP	1,1-Dichloropropene	10.000	9.793	2.1	99	0.00
29 TMP	Carbon tetrachloride	10.000	10.518	-5.2	105	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.527	4.7	91	0.00
31 TMP	Benzene	10.000	10.070	-0.7	101	0.00
32 TMP	Trichloroethene	10.000	9.606	3.9	97	0.00
33 TMP	1,2-Dichloropropane	10.000	9.761	2.4	100	0.00
34 TMP	Bromodichloromethane	10.000	9.904	1.0	102	0.00
35 S	Toluene-d8	10.000	9.981	0.2	103	0.00
36 TMP	Dibromomethane	10.000	10.017	-0.2	98	0.00
37 TMP	4-Methyl-2-pentanone	50.000	47.207	5.6	98	0.00
38 TMP	cis-1,3-Dichloropropene	10.000	9.758	2.4	102	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	102	0.00
40 TMP	Toluene	10.000	9.919	0.8	101	0.00
41 TMP	trans-1,3-Dichloropropene	10.000	9.684	3.2	99	0.00
42 TMP	1,1,2-Trichloroethane	10.000	10.064	-0.6	101	0.00
43 TMP	2-Hexanone	50.000	44.185	11.6	88	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq Dn : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.153	-1.5	98	0.00
45 TMP Tetrachloroethene	10.000	9.803	2.0	101	0.00
46 TMP Dibromochloromethane	10.000	10.023	-0.2	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	9.892	1.1	100	0.00
48 TMP Chlorobenzene	10.000	10.264	-2.6	103	0.00
49 TMP Ethylbenzene	10.000	10.100	-1.0	101	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.085	-0.9	97	0.00
51 TMP m,p-Xylene	20.000	20.056	-0.3	101	0.00
52 TMP o-Xylene	10.000	10.051	-0.5	100	0.00
53 TMP Styrene	10.000	9.884	1.2	98	0.00
54 TMP Isopropylbenzene	10.000	9.947	0.5	98	0.00
55 TMP Bromoform	10.000	9.802	2.0	98	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	98	0.00
57 S 4-Bromofluorobenzene	10.000	9.529	4.7	92	0.00
58 TMP n-Propylbenzene	10.000	10.274	-2.7	99	0.00
59 TMP Bromobenzene	10.000	10.173	-1.7	99	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.157	-1.6	101	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	10.732	-7.3	103	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.451	5.5	94	0.00
63 TMP 2-Chlorotoluene	10.000	10.066	-0.7	99	0.00
64 TMP 4-Chlorotoluene	10.000	9.926	0.7	99	0.00
65 TMP tert-Butylbenzene	10.000	10.054	-0.5	99	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.986	0.1	98	0.00
67 TMP sec-Butylbenzene	10.000	10.101	-1.0	100	0.00
68 TMP p-Isopropyltoluene	10.000	10.274	-2.7	99	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.770	2.3	97	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.887	1.1	97	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.955	0.4	97	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.125	8.8	92	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.810	1.9	97	0.00
74 TMP Hexachlorobutadiene	10.000	9.783	2.2	96	0.00
75 TMP Naphthalene	10.000	8.738	12.6	91	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.495	5.1	92	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq On : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-1S0N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	47985	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	37060	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19799	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	13244	10.461	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	104.60%		
30) 1,2-Dichloroethane-d4	4.36	102	2758	9.527	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	95.30%		
35) Toluene-d8	5.98	98	45984	9.981	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	99.80%		
57) 4-Bromofluorobenzene	8.38	95	15928	9.529	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	95.30%		
Target Compounds							
2) Ethanol	1.85	45	74	No Calib			Qvalue
4) Dichlorodifluoromethane	1.09	85	34923	10.571	ppb	98	
5) Chloromethane	1.23	50	41773	9.861	ppb	99	
6] Vinyl chloride	1.30	62	36571	10.415	ppb	97	
7) Bromomethane	1.55	94	21012	11.889	ppb	68	
8] Chloroethane	1.61	64	17334	10.738	ppb	99	
9) Trichlorofluoromethane	1.78	101	41177	9.865	ppb	100	
10) 2-Propanol	2.40	45	237	No Calib			
11) Acetone	2.27	58	7455	41.731	ppb	99	
12] 1,1-Dichloroethene	2.19	96	11644	10.095	ppb	82	
13) Hexane	3.06	57	21066	10.122	ppb	99	
14) Methylene chloride	2.61	84	14534	11.259	ppb	96	
15) t-Butyl alcohol (TBA)	2.74	59	10107	45.609	ppb	96	
16] Methyl t-butyl ether (...)	2.84	73	36294	10.316	ppb	97	
17] trans-1,2-Dichloroethene	2.83	96	13277	10.163	ppb	95	
18) Diisopropyl ether (DIPE)	3.24	45	45394	10.150	ppb	99	
19] 1,1-Dichloroethane	3.18	63	24677	10.198	ppb	95	
20] Ethyl t-butyl ether (E...)	3.55	87	14326	10.086	ppb	92	
21] 2,2-Dichloropropane	3.67	77	15332	10.112	ppb	93	
22] cis-1,2-Dichloroethene	3.67	96	13918	10.128	ppb	97	
23) Chloroform	3.95	83	22918	10.013	ppb	98	
24) 2-Butanone (MEK)	3.71	43	42326	48.231	ppb	99	
25) t-Amyl methyl ether (T...)	4.49	73	33795	10.155	ppb	97	
26] 1,2-Dichloroethane (EDC)	4.42	62	19386	9.774	ppb	99	
27] 1,1,1-Trichloroethane	4.08	97	21595	10.224	ppb	97	
28) 1,1-Dichloropropene	4.22	75	17022	9.793	ppb	99	
29) Carbon tetrachloride	4.21	117	18528	10.518	ppb	98	
31] Benzene	4.39	78	48270	10.070	ppb	98	
32] Trichloroethene	4.93	95	14547	9.606	ppb	95	
33) 1,2-Dichloropropane	5.13	63	13877	9.761	ppb	99	
34) Bromodichloromethane	5.37	83	16986	9.904	ppb	93	
36) Dibromomethane	5.23	93	8118	10.017	ppb	94	

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq On : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

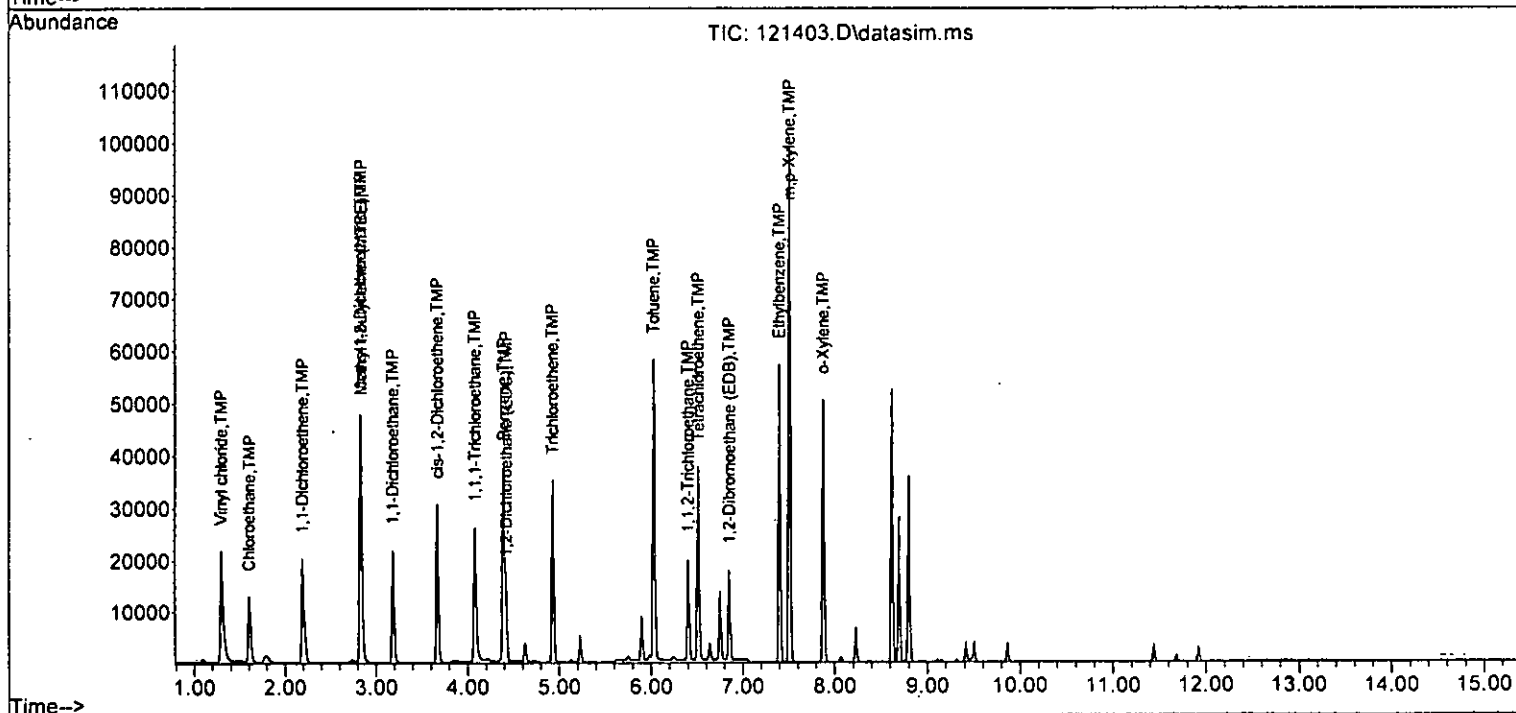
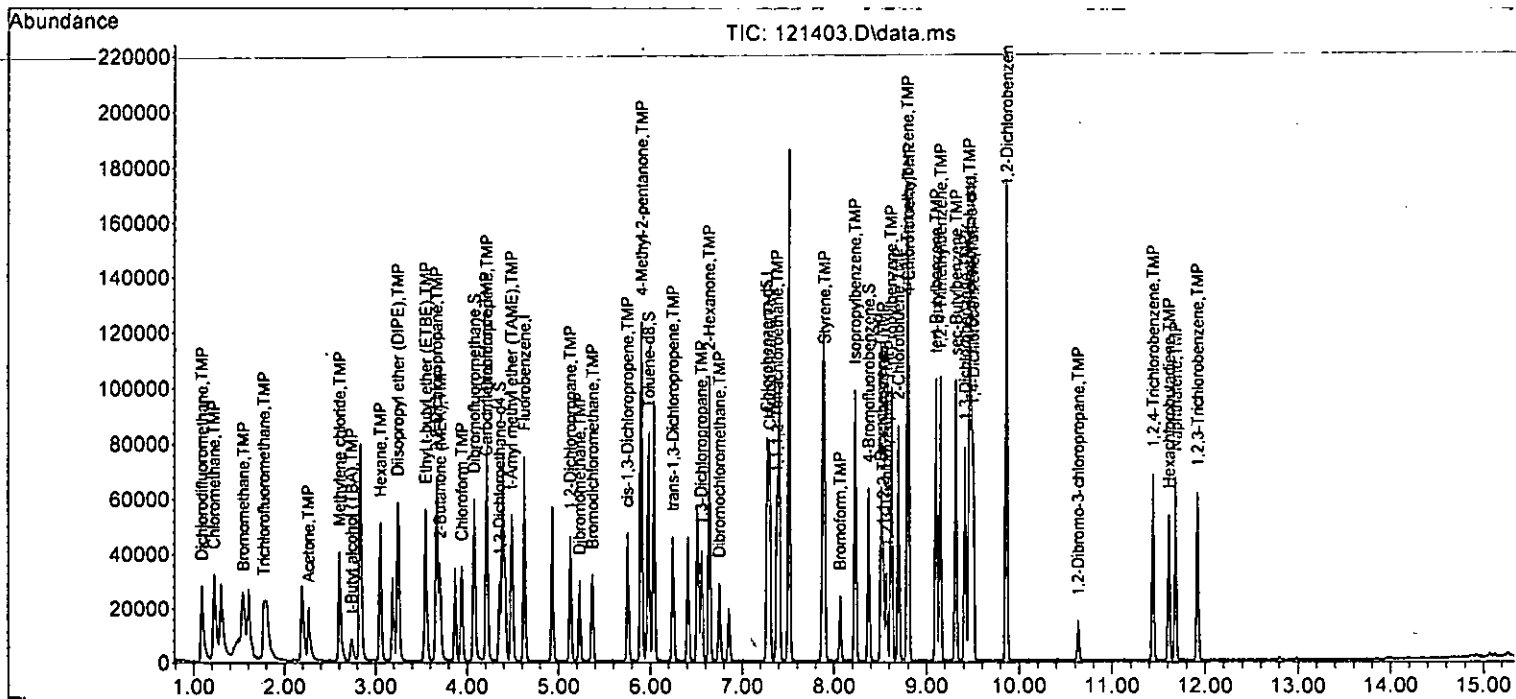
Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11821	47.207	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	20067	9.758	ppb	98
40] Toluene	6.03	92	31524	9.919	ppb	90
41) trans-1,3-Dichloropropene	6.25	75	17355	9.684	ppb	95
42] 1,1,2-Trichloroethane	6.40	83	9836	10.064	ppb	97
43) 2-Hexanone	6.64	43	54921	44.185	ppb	97
44) 1,3-Dichloropropane	6.55	76	17674	10.153	ppb	91
45] Tetrachloroethene	6.51	164	12431	9.803	ppb	98
46) Dibromochloromethane	6.75	129	13139	10.023	ppb	98
47] 1,2-Dibromoethane (EDB)	6.85	107	12000	9.892	ppb	99
48) Chlorobenzene	7.30	112	35190	10.264	ppb	93
49] Ethylbenzene	7.40	91	60314	10.100	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	12442	10.085	ppb	96
51] m,p-Xylene	7.51	106	45141	20.056	ppb #	70
52] o-Xylene	7.88	106	22159	10.051	ppb #	69
53) Styrene	7.90	104	35637	9.884	ppb	100
54) Isopropylbenzene	8.23	105	57654	9.947	ppb	96
55) Bromoform	8.07	173	9162	9.802	ppb	98
58) n-Propylbenzene	8.62	91	66745	10.274	ppb	99
59) Bromobenzene	8.51	156	15518	10.173	ppb	95
60) 1,3,5-Trimethylbenzene	8.79	105	49123	10.157	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.53	83	14824	10.732	ppb	99
62) 1,2,3-Trichloropropane	8.57	75	10963	9.451	ppb	94
63) 2-Chlorotoluene	8.70	91	38673	10.066	ppb	99
64) 4-Chlorotoluene	8.81	91	44824	9.926	ppb	96
65) tert-Butylbenzene	9.10	119	42615	10.054	ppb	98
66) 1,2,4-Trimethylbenzene	9.15	105	48954	9.986	ppb	96
67) sec-Butylbenzene	9.32	105	62054	10.101	ppb	99
68) p-Isopropyltoluene	9.46	119	54350	10.274	ppb	99
69) 1,3-Dichlorobenzene	9.42	146	27739	9.770	ppb	98
70) 1,4-Dichlorobenzene	9.50	146	28595	9.887	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	27195	9.955	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.63	75	2799	9.125	ppb	82
73) 1,2,4-Trichlorobenzene	11.44	180	19030	9.810	ppb	96
74) Hexachlorobutadiene	11.61	225	10490	9.783	ppb	90
75) Naphthalene	11.68	128	44931	8.738	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	16993	9.495	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq On : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq On : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	102	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.00
3 S Dibromofluoromethane	0.264	0.276	-4.5	106	0.00
4 TMP Dichlorodifluoromethane	0.688	0.728	-5.8	110	0.02
5 TMP Chloromethane	0.883	0.871	1.4	103	0.00
6 TMP Vinyl chloride	0.732	0.762	-4.1	104	0.00
7 TMP Bromomethane	0.368	0.438	-19.0	134	0.02
8 TMP Chloroethane	0.336	0.361	-7.4	111	0.02
9 TMP Trichlorofluoromethane	0.870	0.858	1.4	103	-0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.031	16.2	91	0.00
12 TMP 1,1-Dichloroethene	0.240	0.243	-1.3	101	0.00
13 TMP Hexane	0.434	0.439	-1.2	102	0.00
14 TMP Methylene chloride	0.269	0.303	-12.6	107	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.042	8.7	94	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.756	-3.1	101	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.277	-1.8	102	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.946	-1.5	103	0.00
19 TMP 1,1-Dichloroethane	0.504	0.514	-2.0	101	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.299	-1.0	99	0.00
21 TMP 2,2-Dichloropropane	0.316	0.320	-1.3	103	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.290	-1.4	102	0.00
23 TMP Chloroform	0.477	0.478	-0.2	106	0.00
24 TMP 2-Butanone (MEK)	0.183	0.176	3.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.704	-1.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.404	2.2	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.450	-2.3	103	0.00
28 TMP 1,1-Dichloropropene	0.362	0.355	1.9	99	0.00
29 TMP Carbon tetrachloride	0.367	0.386	-5.2	105	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.057	5.0	91	0.00
31 TMP Benzene	0.999	1.006	-0.7	101	0.00
32 TMP Trichloroethene	0.316	0.303	4.1	97	0.00
33 TMP 1,2-Dichloropropane	0.296	0.289	2.4	100	0.00
34 TMP Bromodichloromethane	0.357	0.354	0.8	102	0.00
35 S Toluene-d8	0.960	0.958	0.2	103	0.00
36 TMP Dibromomethane	0.169	0.169	0.0	98	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.049	5.8	98	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.418	2.6	102	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
40 TMP Toluene	0.858	0.851	0.8	101	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.468	3.3	99	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.265	-0.4	101	0.00
43 TMP 2-Hexanone	0.335	0.296	11.6	88	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq On : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.477	-1.5	98	0.00
45 TMP Tetrachloroethene	0.342	0.335	2.0	101	0.00
46 TMP Dibromochloromethane	0.354	0.355	-0.3	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.324	0.9	100	0.00
48 TMP Chlorobenzene	0.925	0.950	-2.7	103	0.00
49 TMP Ethylbenzene	1.611	1.627	-1.0	101	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.336	-0.9	97	0.00
51 TMP m,p-Xylene	0.607	0.609	-0.3	101	0.00
52 TMP o-Xylene	0.595	0.598	-0.5	100	0.00
53 TMP Styrene	0.973	0.962	1.1	98	0.00
54 TMP Isopropylbenzene	1.564	1.556	0.5	98	0.00
55 TMP Bromoform	0.252	0.247	2.0	98	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
57 S 4-Bromofluorobenzene	0.844	0.804	4.7	92	0.00
58 TMP n-Propylbenzene	3.281	3.371	-2.7	99	0.00
59 TMP Bromobenzene	0.770	0.784	-1.8	99	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.481	-1.6	101	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.749	-7.3	103	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.554	5.5	94	0.00
63 TMP 2-Chlorotoluene	1.941	1.953	-0.6	99	0.00
64 TMP 4-Chlorotoluene	2.281	2.264	0.7	99	0.00
65 TMP tert-Butylbenzene	2.141	2.152	-0.5	99	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.473	0.1	98	0.00
67 TMP sec-Butylbenzene	3.103	3.134	-1.0	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.745	-2.7	99	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.401	2.3	97	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.444	1.2	97	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.374	0.4	97	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.141	9.0	92	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.961	1.9	97	0.00
74 TMP Hexachlorobutadiene	0.542	0.530	2.2	96	0.00
75 TMP Naphthalene	2.597	2.269	12.6	91	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.858	5.1	92	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

**EPA 8260D**  
**Quality Assurance Data**

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120804.D  
 Acq On : 08 Dec 2022 06:36 am  
 Operator : LM  
 Sample : 02-2869 lcs  
 Misc : water  
 ALS Vial : 2 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	43747	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35166	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19160	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11595	10.057	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	100.60%
30) 1,2-Dichloroethane-d4	4.36	102	2583	9.905	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	99.00%
35) Toluene-d8	5.98	98	42838	10.039	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	100.40%
57) 4-Bromofluorobenzene	8.38	95	16474	9.951	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	99.50%
Target Compounds						
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.09	85	30649	9.846	ppb	91
5) Chloromethane	1.23	50	39896	10.529	ppb	92
6] Vinyl chloride	1.30	62	32901	10.055	ppb	92
7) Bromomethane	1.55	94	20749	10.039	ppb	# 61
8] Chloroethane	1.61	64	16408	11.278	ppb	84
9) Trichlorofluoromethane	1.78	101	38049	9.673	ppb	70
10) 2-Propanol	0.00		0	N.D.		
11) Acetone	2.27	58	6564	48.088	ppb	# 86
12] 1,1-Dichloroethene	2.20	96	11228	10.376	ppb	94
13) Hexane	3.06	57	20916	11.167	ppb	98
14) Methylene chloride	2.61	84	12628	10.277	ppb	# 79
15) t-Butyl alcohol (TBA)	2.73	59	10401	51.386	ppb	97
16] Methyl t-butyl ether (...)	2.84	73	34483	10.654	ppb	100
17] trans-1,2-Dichloroethene	2.83	96	12642	10.814	ppb	83
18) Diisopropyl ether (DIPE)	3.24	45	41231	9.894	ppb	98
19] 1,1-Dichloroethane	3.18	63	23065	10.594	ppb	95
20) Ethyl t-butyl ether (E...)	3.55	87	13458	10.010	ppb	96
21) 2,2-Dichloropropane	3.67	77	14510	10.786	ppb	93
22] cis-1,2-Dichloroethene	3.67	96	13228	10.347	ppb	90
23) Chloroform	3.95	83	21369	10.251	ppb	95
24) 2-Butanone (MEK)	3.71	43	35112	48.096	ppb	100
25) t-Amyl methyl ether (T...)	4.49	73	32438	10.039	ppb	96
26] 1,2-Dichloroethane (EDC)	4.42	62	18093	10.503	ppb	96
27] 1,1,1-Trichloroethane	4.08	97	20763	10.241	ppb	95
28) 1,1-Dichloropropene	4.22	75	16495	10.240	ppb	93
29) Carbon tetrachloride	4.22	117	17913	10.339	ppb	97
31] Benzene	4.39	78	45816	10.323	ppb	93
32] Trichloroethene	4.93	95	13757	9.866	ppb	94
33) 1,2-Dichloropropane	5.13	63	13037	9.465	ppb	100
34) Bromodichloromethane	5.37	83	16091	9.802	ppb	94
36) Dibromomethane	5.23	93	7645	9.637	ppb	79



Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120804.D  
 Acq On : 08 Dec 2022 06:36 am  
 Operator : LM  
 Sample : 02-2869 lcs  
 Misc : water  
 ALS Vial : 2 Sample Multiplier: 1  
 InstName : GCMS11

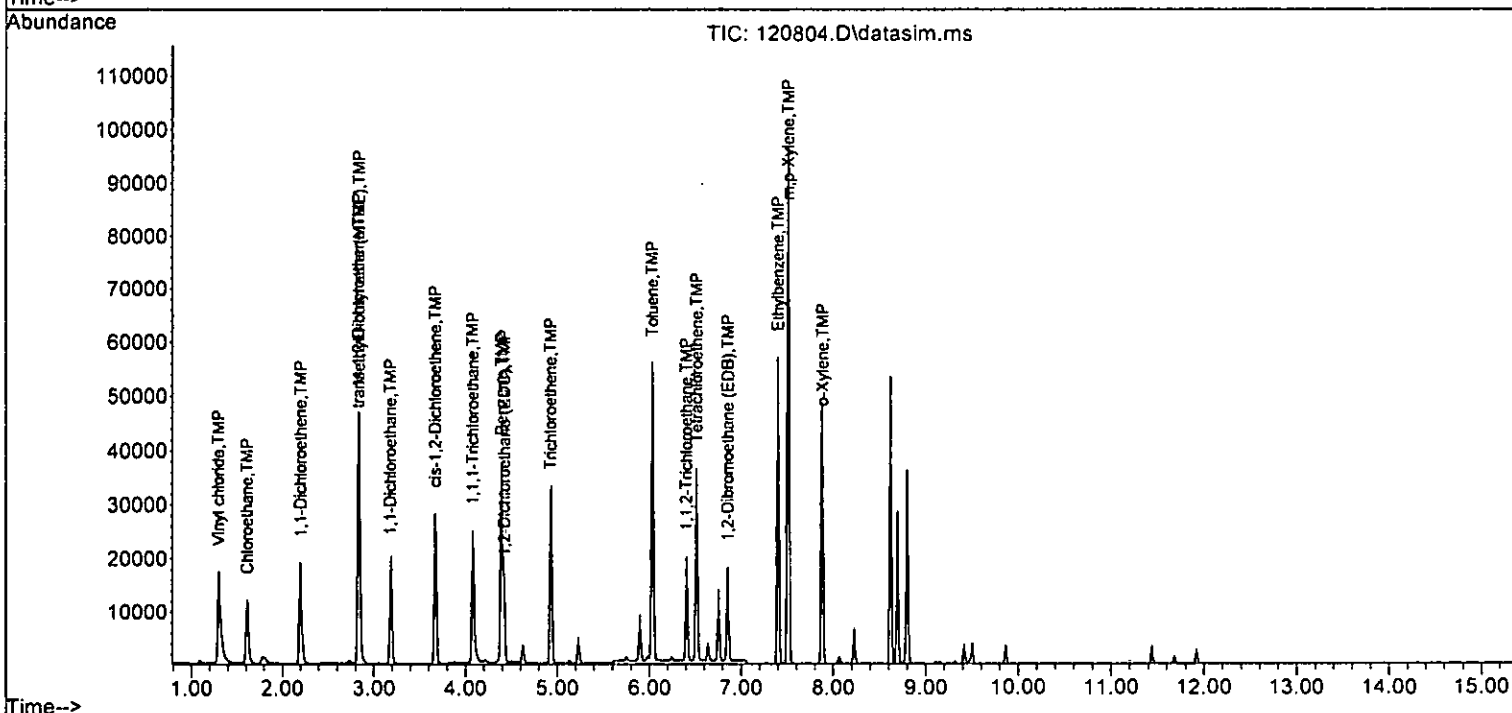
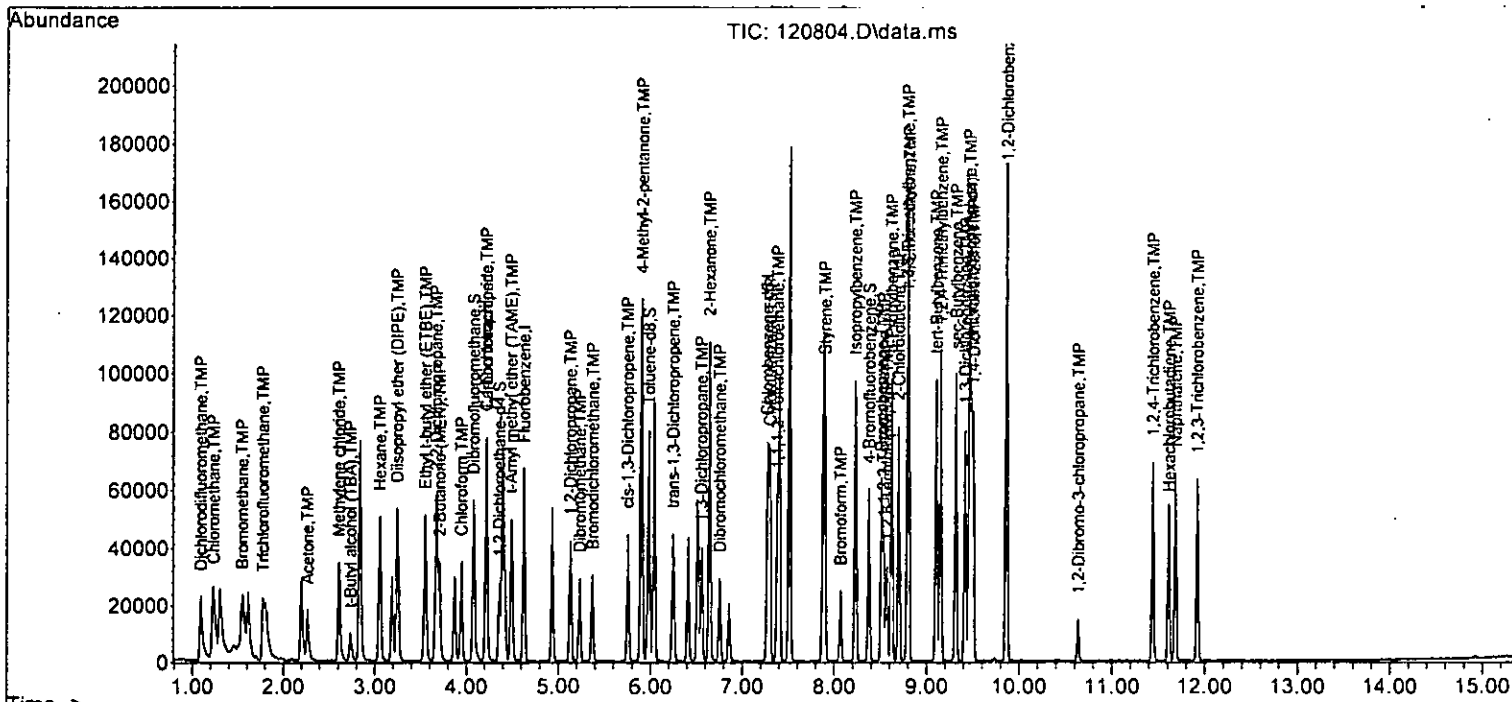
Quant Time: Dec 08 07:13:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11640	49.139	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	20081	10.360	ppb	96
40] Toluene	6.03	92	30999	10.213	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	17794	9.968	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	9786	10.040	ppb	98
43) 2-Hexanone	6.64	43	58051	52.984	ppb	97
44) 1,3-Dichloropropane	6.55	76	16989	9.974	ppb	99
45] Tetrachloroethene	6.51	164	11934	10.260	ppb	99
46) Dibromochloromethane	6.75	129	13266	10.303	ppb	95
47] 1,2-Dibromoethane (EDB)	6.85	107	11797	10.388	ppb	100
48) Chlorobenzene	7.30	112	33525	9.960	ppb	98
49] Ethylbenzene	7.40	91	59887	10.637	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	12520	9.940	ppb	77
51] m,p-Xylene	7.51	106	44588	20.676	ppb	100
52] o-Xylene	7.88	106	21733	10.267	ppb	98
53) Styrene	7.90	104	32831	9.297	ppb	96
54) Isopropylbenzene	8.23	105	57186	10.124	ppb	92
55) Bromoform	8.07	173	9625	10.172	ppb	98
58) n-Propylbenzene	8.62	91	66372	10.230	ppb	92
59) Bromobenzene	8.51	156	15034	9.938	ppb	84
60) 1,3,5-Trimethylbenzene	8.79	105	46820	9.847	ppb	94
61) 1,1,2,2-Tetrachloroethane	8.53	83	15406	10.963	ppb	84
62) 1,2,3-Trichloropropane	8.57	75	11545	10.064	ppb	93
63) 2-Chlorotoluene	8.70	91	38243	9.716	ppb	97
64) 4-Chlorotoluene	8.81	91	44118	9.778	ppb	99
65) tert-Butylbenzene	9.10	119	41580	9.893	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	48703	9.873	ppb	99
67) sec-Butylbenzene	9.32	105	61429	10.146	ppb	97
68) p-Isopropyltoluene	9.46	119	52803	10.183	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	28378	10.082	ppb	91
70) 1,4-Dichlorobenzene	9.50	146	28276	9.854	ppb	96
71) 1,2-Dichlorobenzene	9.86	146	26708	10.245	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.64	75	3057	10.089	ppb	98
73) 1,2,4-Trichlorobenzene	11.44	180	19140	10.210	ppb	96
74) Hexachlorobutadiene	11.61	225	10422	10.550	ppb	96
75) Naphthalene	11.68	128	44949	9.769	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	17167	10.119	ppb	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120804.D  
 Acq On : 08 Dec 2022 06:36 am  
 Operator : LM  
 Sample : 02-2869 lcs  
 Misc : water  
 ALS Vial : 2 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120805.D  
 Acq On : 08 Dec 2022 06:59 am  
 Operator : LM  
 Sample : 02-2869 lcsd  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:15:56 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	43321	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	34795	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	18678	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	11626	10.183	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	101.80%	
30) 1,2-Dichloroethane-d4	4.35	102	2651	10.265	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	102.70%	
35) Toluene-d8	5.98	98	43477	10.289	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	102.90%	
57) 4-Bromofluorobenzene	8.38	95	15796	9.788	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	97.90%	
Target Compounds						
2) Ethanol	1.86	45	64	No Calib		Qvalue
4) Dichlorodifluoromethane	1.09	85	30992	10.054	ppb	99
5) Chloromethane	1.22	50	40823	10.888	ppb	99
6] Vinyl chloride	1.29	62	32897	10.153	ppb	91
7) Bromomethane	1.54	94	20543	10.036	ppb	# 59
8] Chloroethane	1.60	64	16162	11.217	ppb	82
9) Trichlorofluoromethane	1.77	101	38398	9.858	ppb	67
10) 2-Propanol	0.00		0	N.D.		
11) Acetone	2.26	58	6192	45.809	ppb	89
12] 1,1-Dichloroethene	2.19	96	10911	10.182	ppb	95
13) Hexane	3.05	57	20278	10.926	ppb	93
14) Methylene chloride	2.60	84	12621	10.380	ppb	83
15) t-Butyl alcohol (TBA)	2.73	59	9821	48.998	ppb	91
16] Methyl t-butyl ether (...)	2.83	73	33751	10.530	ppb	99
17] trans-1,2-Dichloroethene	2.83	96	12357	10.674	ppb	100
18) Diisopropyl ether (OIPE)	3.24	45	40641	9.848	ppb	98
19] 1,1-Dichloroethane	3.18	63	22480	10.426	ppb	100
20) Ethyl t-butyl ether (E...)	3.54	87	13613	10.225	ppb	92
21) 2,2-Dichloropropane	3.66	77	15253	11.461	ppb	97
22] cis-1,2-Dichloroethene	3.67	96	12940	10.221	ppb	99
23) Chloroform	3.94	83	20065	9.720	ppb	88
24) 2-Butanone (MEK)	3.70	43	34071	47.097	ppb	96
25) t-Amyl methyl ether (T...)	4.49	73	32330	10.104	ppb	97
26] 1,2-Dichloroethane (EDC)	4.41	62	17680	10.364	ppb	100
27] 1,1,1-Trichloroethane	4.08	97	20086	10.004	ppb	99
28) 1,1-Dichloropropene	4.22	75	15814	9.914	ppb	88
29) Carbon tetrachloride	4.21	117	17471	10.183	ppb	96
31] Benzene	4.39	78	44772	10.186	ppb	100
32] Trichloroethene	4.93	95	13366	9.679	ppb	98
33) 1,2-Dichloropropane	5.13	63	13130	9.627	ppb	100
34) Bromodichloromethane	5.37	83	15944	9.808	ppb	93
36) Dibromomethane	5.23	93	8039	10.234	ppb	85

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120805.D  
 Acq On : 08 Dec 2022 06:59 am  
 Operator : LM  
 Sample : 02-2869 lcsd  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS11

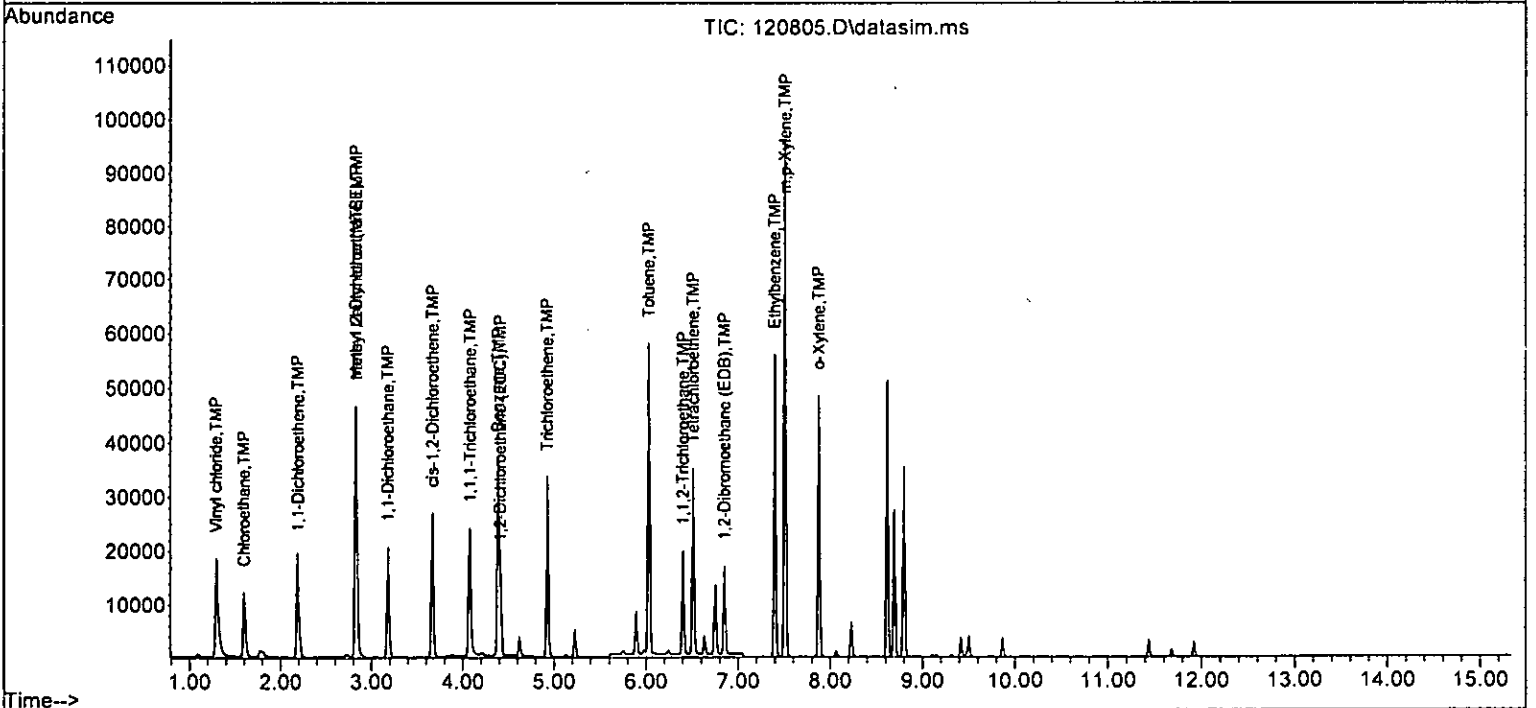
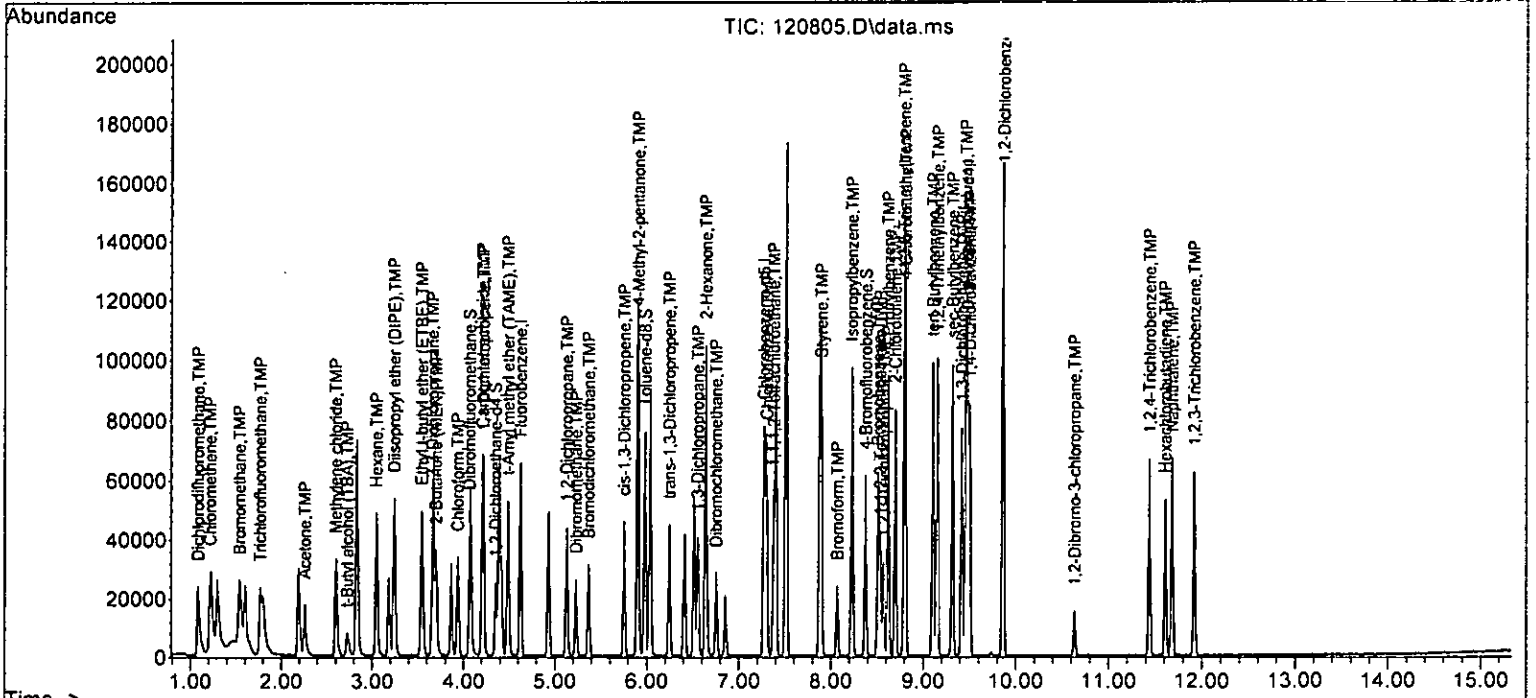
Quant Time: Dec 08 07:15:56 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11380	48.514	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	18859	9.826	ppb	97
40] Toluene	6.03	92	30242	10.070	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	17864	10.114	ppb	94
42] 1,1,2-Trichloroethane	6.40	83	9616	9.970	ppb	99
43) 2-Hexanone	6.64	43	54012	49.823	ppb	99
44) 1,3-Dichloropropane	6.55	76	16969	10.068	ppb	97
45] Tetrachloroethene	6.51	164	11657	10.127	ppb	99
46) Dibromochloromethane	6.75	129	12976	10.185	ppb	92
47] 1,2-Dibromoethane (EDB)	6.85	107	11515	10.247	ppb	99
48) Chlorobenzene	7.30	112	33523	10.065	ppb	97
49] Ethylbenzene	7.40	91	58359	10.475	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	11926	9.569	ppb	78
51] m,p-Xylene	7.51	106	43469	20.371	ppb	99
52] o-Xylene	7.88	106	21249	10.145	ppb #	65
53) Styrene	7.90	104	31424	8.994	ppb	94
54) Isopropylbenzene	8.23	105	55503	9.931	ppb	92
55) Bromoform	8.07	173	9262	9.893	ppb	93
58) n-Propylbenzene	8.62	91	63422	10.028	ppb	94
59) Bromobenzene	8.51	156	14458	9.804	ppb	83
60) 1,3,5-Trimethylbenzene	8.79	105	46364	10.003	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	14895	10.873	ppb	78
62) 1,2,3-Trichloropropane	8.57	75	11920	10.659	ppb	98
63) 2-Chlorotoluene	8.70	91	37645	9.811	ppb	94
64) 4-Chlorotoluene	8.81	91	43678	9.930	ppb	98
65) tert-Butylbenzene	9.10	119	41301	10.080	ppb	96
66) 1,2,4-Trimethylbenzene	9.15	105	46935	9.760	ppb	100
67) sec-Butylbenzene	9.32	105	59947	10.157	ppb	100
68) p-Isopropyltoluene	9.46	119	51742	10.236	ppb	96
69) 1,3-Dichlorobenzene	9.42	146	27812	10.136	ppb	93
70) 1,4-Dichlorobenzene	9.50	146	27627	9.876	ppb	95
71) 1,2-Dichlorobenzene	9.86	146	26058	10.253	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.63	75	3096	10.481	ppb	93
73) 1,2,4-Trichlorobenzene	11.44	180	18899	10.341	ppb	96
74) Hexachlorobutadiene	11.61	225	10156	10.546	ppb	91
75) Naphthalene	11.68	128	44506	9.923	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	17002	10.280	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-08-22\  
Data File : 120805.D  
Acq On : 08 Dec 2022 06:59 am  
Operator : LM  
Sample : 02-2869 lcsd  
Misc : water  
ALS Vial : 3 Sample Multiplier: 1  
InstName : GCMS11

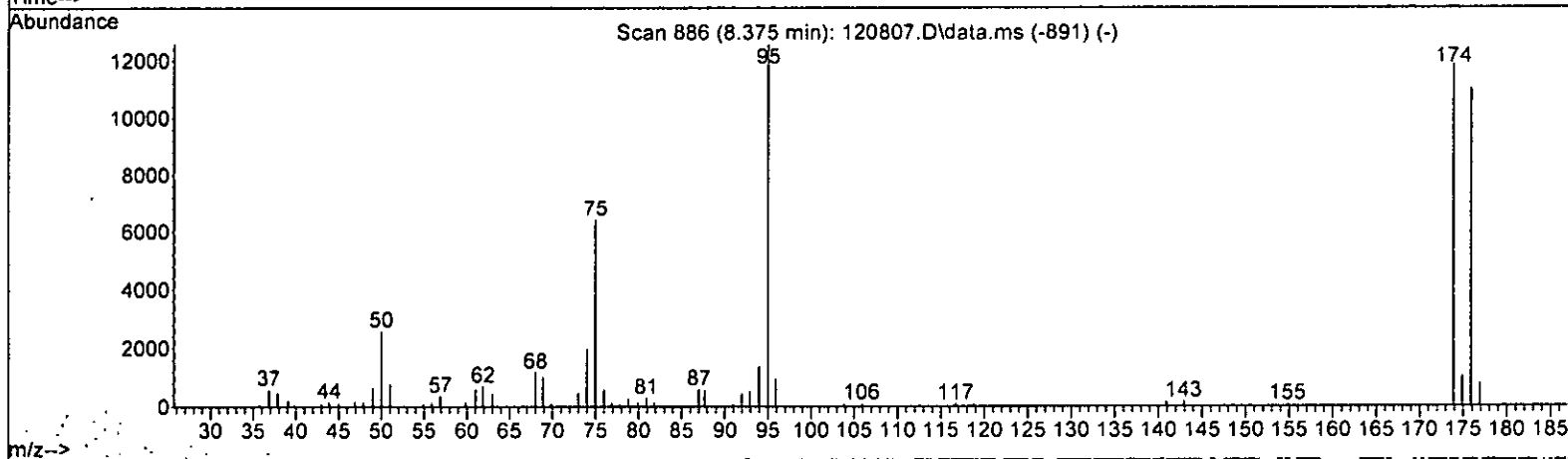
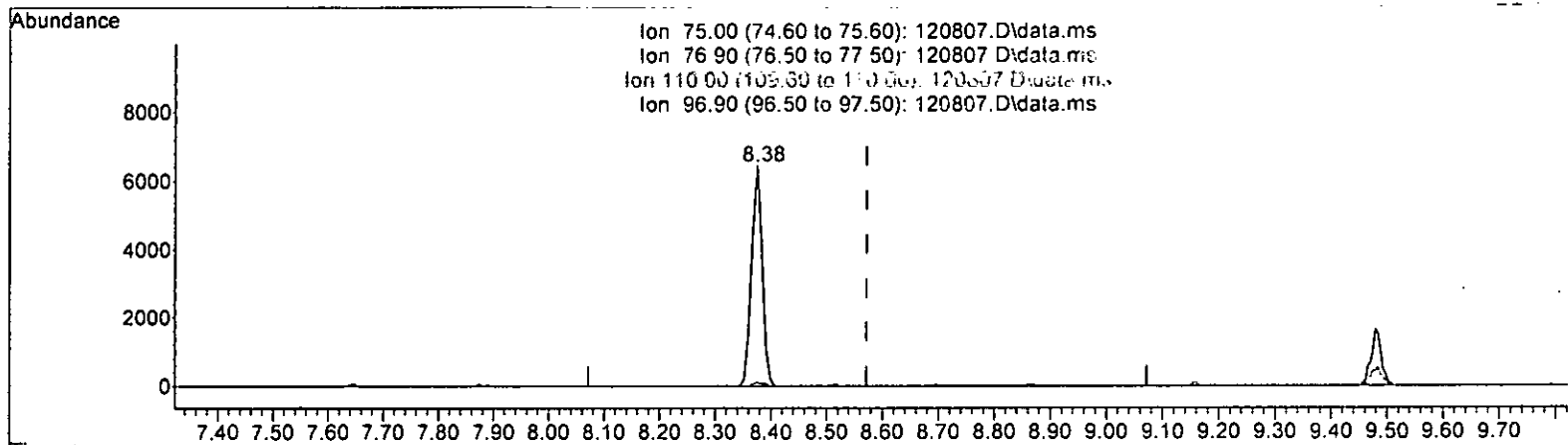
Quant Time: Dec 08 07:15:56 2022  
Quant Method : Y:\Methods\Inst11\VB12022ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Mon Dec 05 13:11:58 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120807.D  
 Acq On : 08 Dec 2022 07:46 am  
 Operator : LM  
 Sample : 02-2869 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 08:33:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120807.D\data.ms

(62) 1,2,3-Trichloropropane (TMP)

8.375min (-0.197) 7.512 ppb

response	8409
Ion	Exp% Act%
75.00	100.00 100.00
76.90	26.80 1.73
110.00	32.90 0.00#
96.90	16.30 0.00

Data Path : Y:\Proc\_GCM511\12-08-22\  
 Data File : 120807.D  
 Acq On : 08 Dec 2022 07:46 am  
 Operator : LM  
 Sample : 02-2869 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCM511

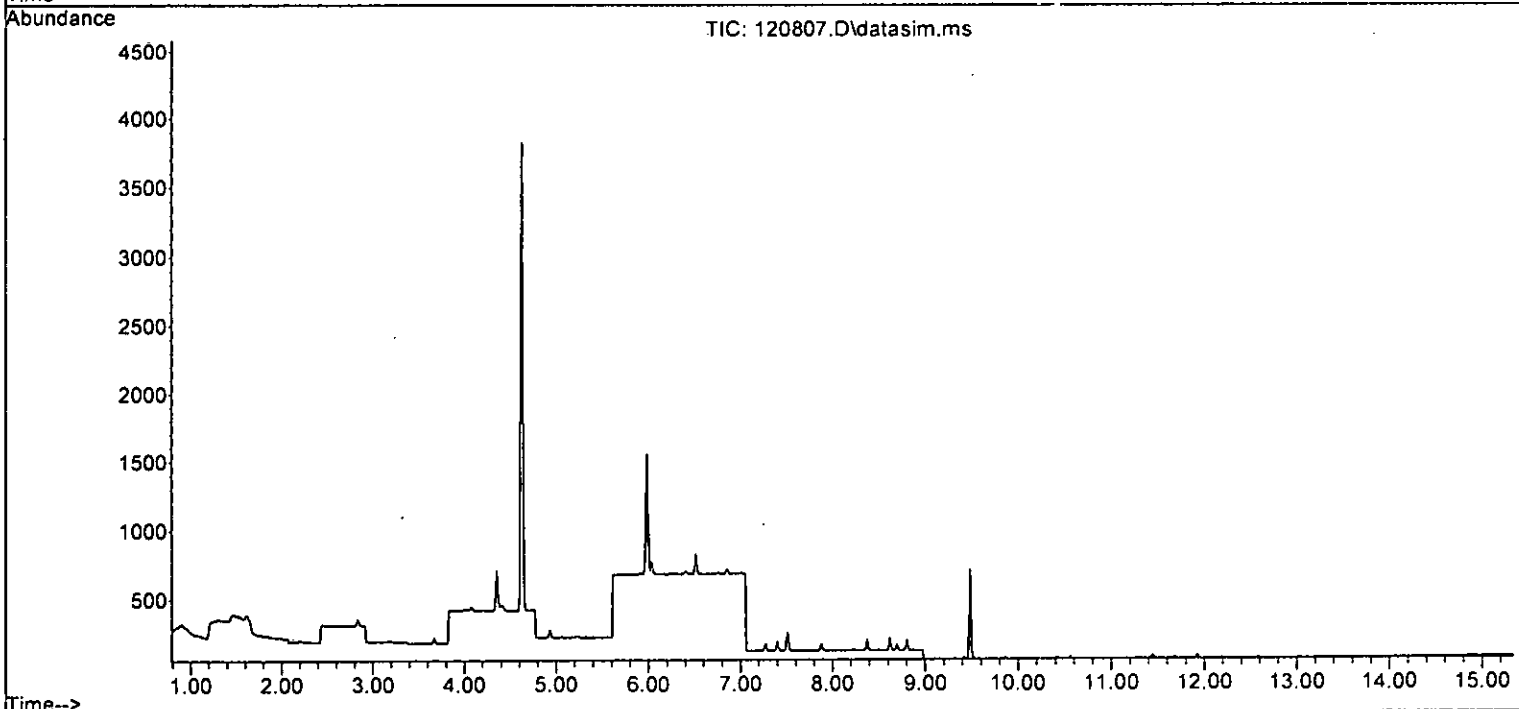
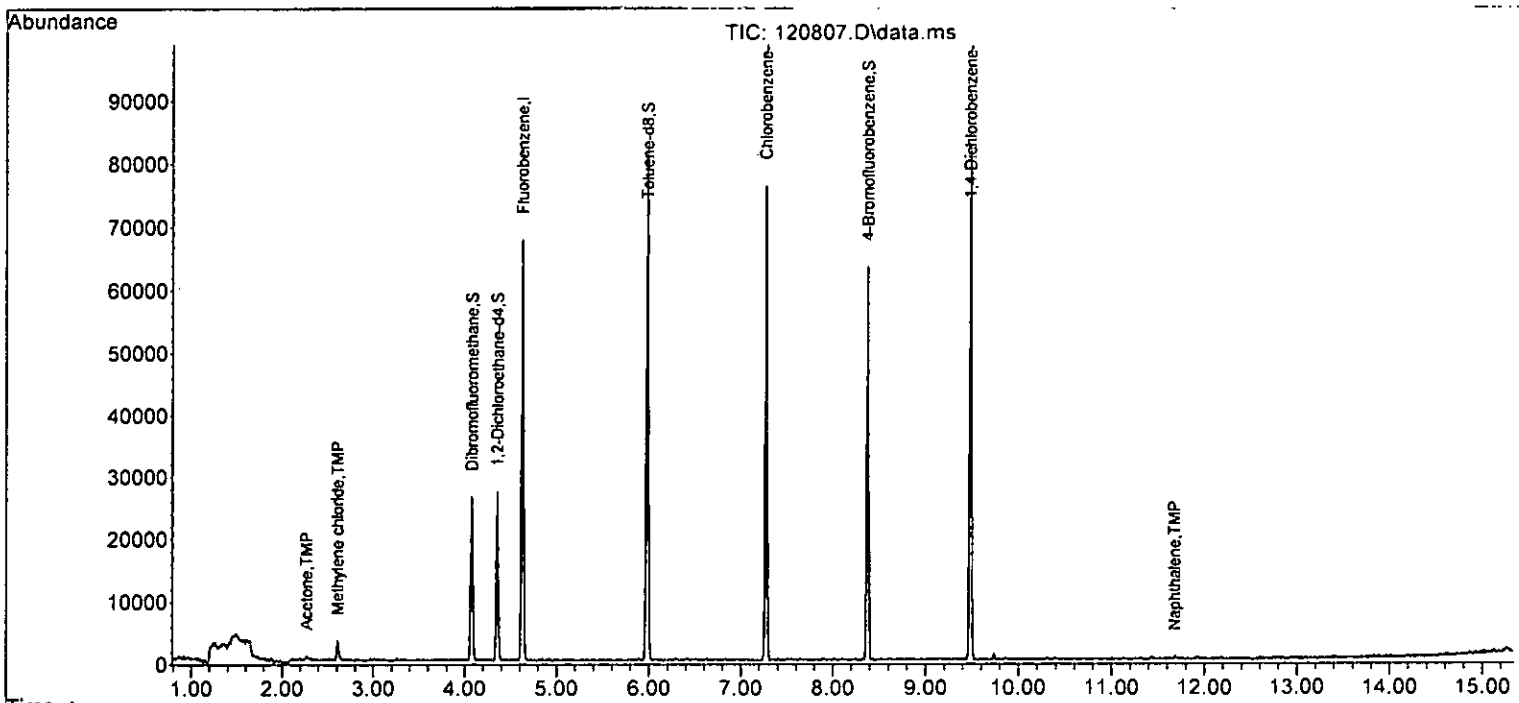
Quant Time: Dec 08 08:33:37 2022  
 Quant Method : Y:\Methods\Inst11\V8120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	44374	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35325	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	18697	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	12305	10.522	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	105.20%	
30) 1,2-Dichloroethane-d4	4.36	102	2669	10.090	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	100.90%	
35) Toluene-d8	5.98	98	44292	10.233	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	102.30%	
57) 4-Bromofluorobenzene	8.38	95	16694	10.334	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	103.30%	
Target Compounds						
7) Bromomethane	1.53	94	262	Below Cal	#	18
11) Acetone	2.27	58	176	1.271	ppb #	1
14) Methylene chloride	2.61	84	1221	0.304	ppb #	62
21) 2,2-Dichloropropane	3.74	77	67	Below Cal		54
24) 2-Butanone (MEK)	3.71	43	95	Below Cal		63
45] Tetrachloroethene	6.51	164	58	Below Cal		95
49] Ethylbenzene	7.40	91	80	Below Cal		99
51] m,p-Xylene	7.51	106	65	Below Cal		99
75) Naphthalene	11.68	128	443	0.099	ppb	85

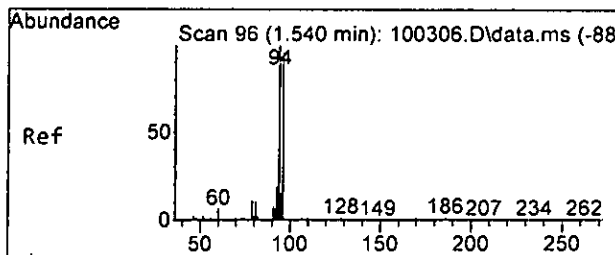
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-08-22\  
Data File : 120807.D  
Acq On : 08 Dec 2022 07:46 am  
Operator : LM  
Sample : 02-2869 mb  
Misc : water  
ALS Vial : 4 Sample Multiplier: 1  
InstName : GCMS11

Quant Time: Dec 08 08:33:37 2022  
Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Mon Dec 05 13:11:58 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M

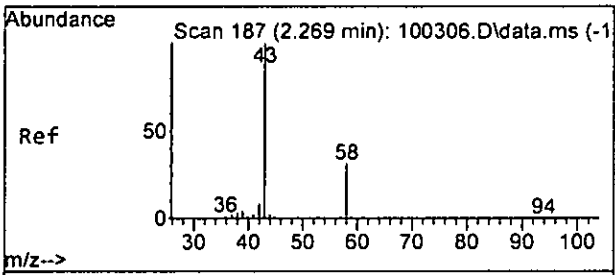
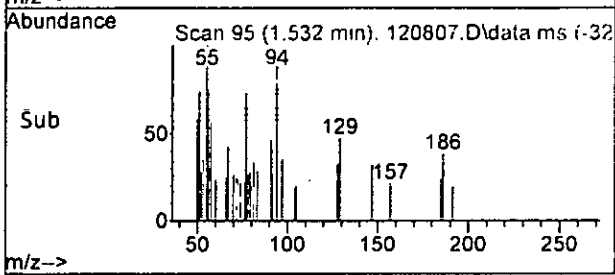
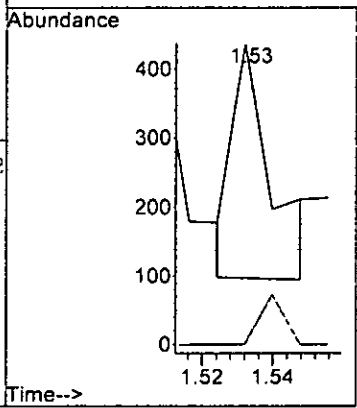
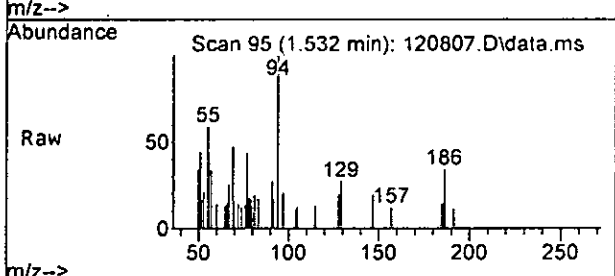






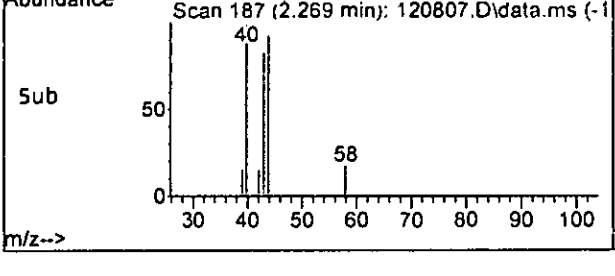
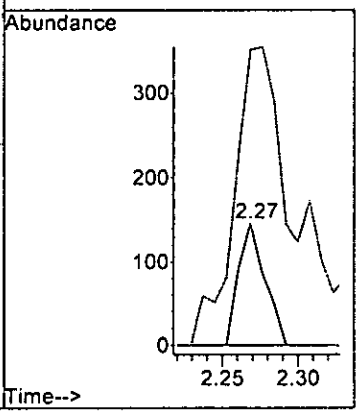
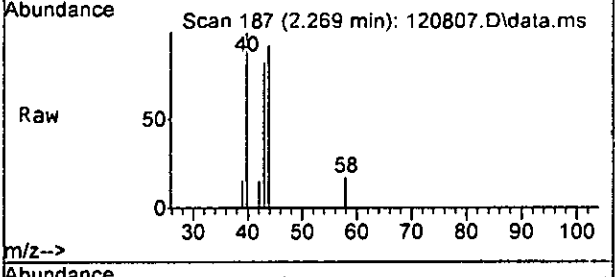
#7  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.53 min Scan# 95  
 Delta R.T. -0.008 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

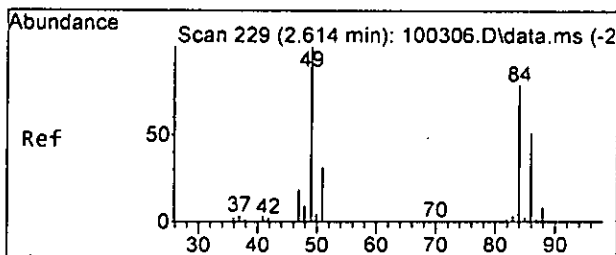
Tgt Ion: 94 Resp: 262  
 Ion Ratio Lower Upper  
 94 100  
 96 0.0 33.9 93.9#



#11  
 Acetone  
 Concen: 1.271 ppb  
 RT: 2.27 min Scan# 187  
 Delta R.T. -0.000 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

Tgt Ion: 58 Resp: 176  
 Ion Ratio Lower Upper  
 58 100  
 43 579.5 319.7 379.7#

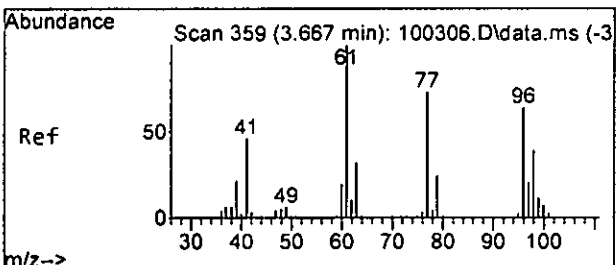
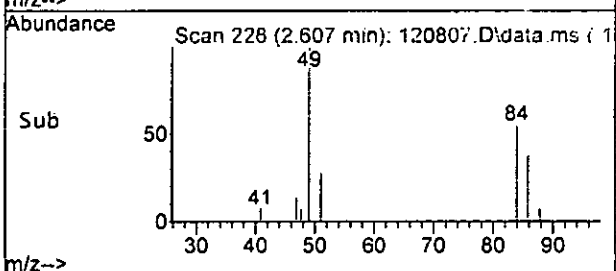
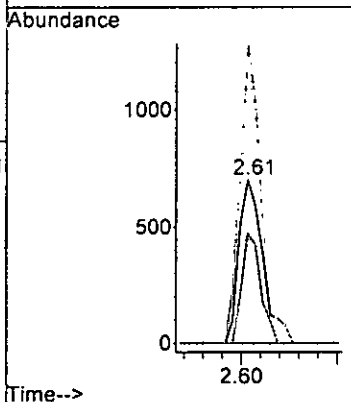
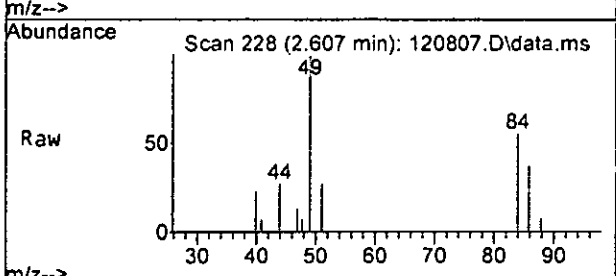




#14  
 Methylene chloride  
 Concen: 0.304 ppb  
 RT: 2.61 min Scan# 228  
 Delta R.T. -0.000 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

Tgt Ion: 84 Resp: 1221

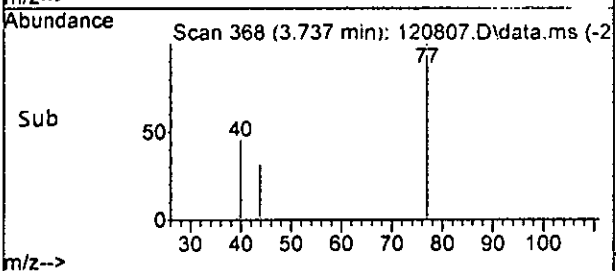
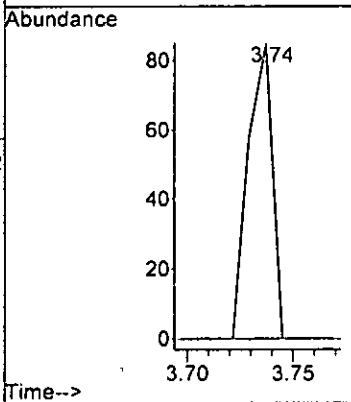
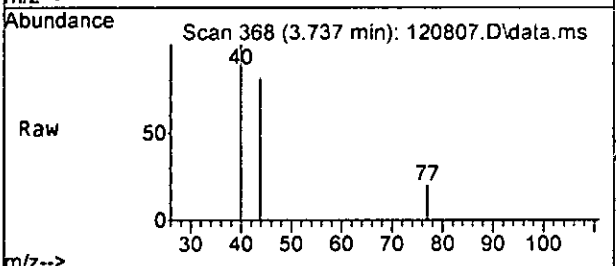
Ion	Ratio	Lower	Upper
84	100		
86	67.5	30.4	90.4
49	181.4	93.0	153.0

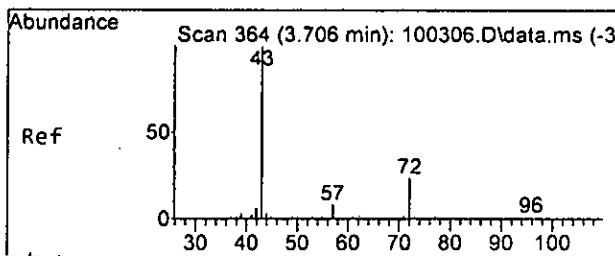


#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.74 min Scan# 368  
 Delta R.T. 0.070 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

Tgt Ion: 77 Resp: 67

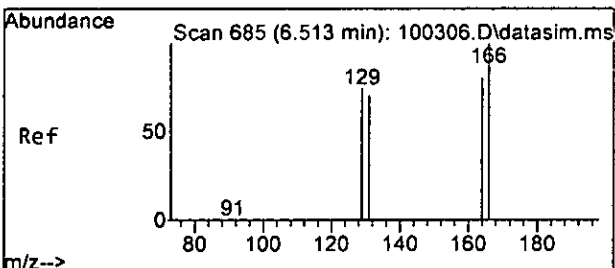
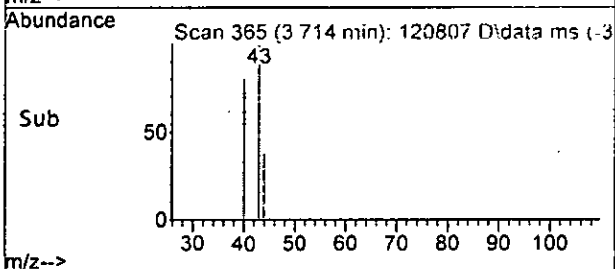
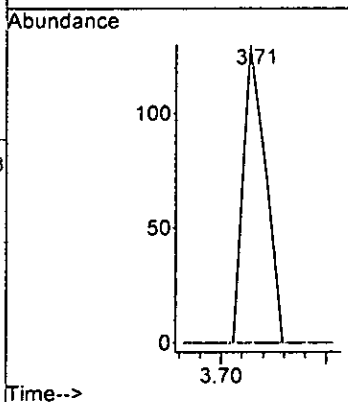
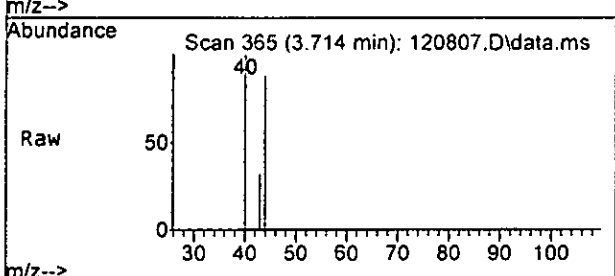
Ion	Ratio	Lower	Upper
77	100		
97	0.0	0.0	51.5





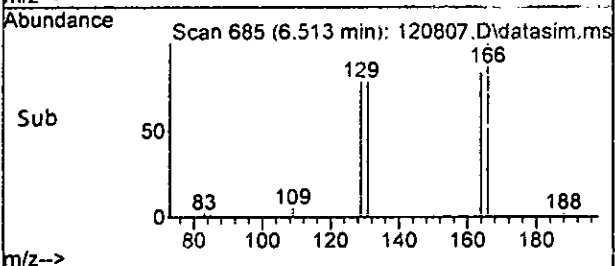
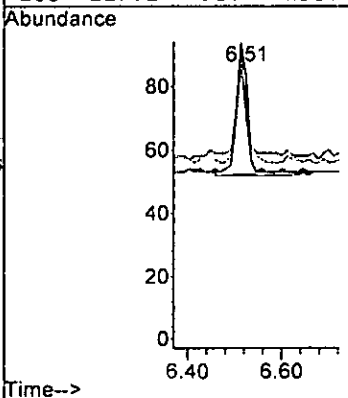
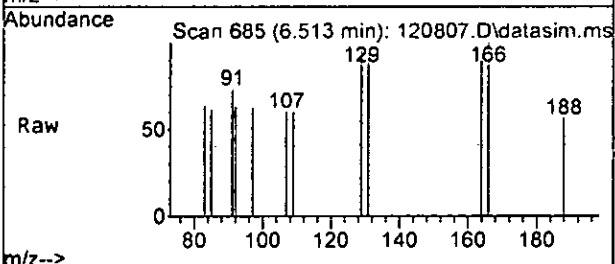
#24  
 2-Butanone (MEK)  
 Concen: Below Cal  
 RT: 3.71 min Scan# 365  
 Delta R.T. 0.008 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

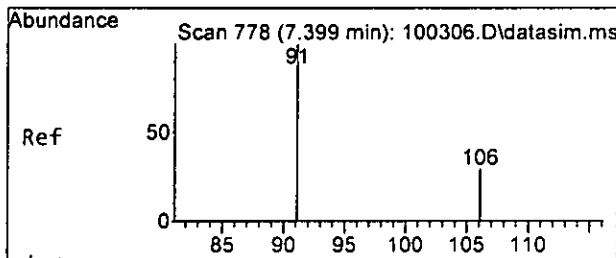
Tgt Ion	Resp	Lower	Upper
43	100		
72	0.0	0.0	49.9
57	0.0	0.0	28.2



#45  
 Tetrachloroethene  
 Concen: Below Cal  
 RT: 6.51 min Scan# 685  
 Delta R.T. 0.000 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

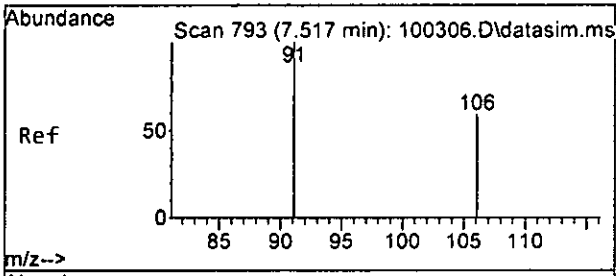
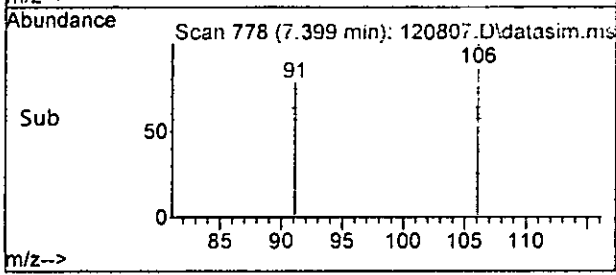
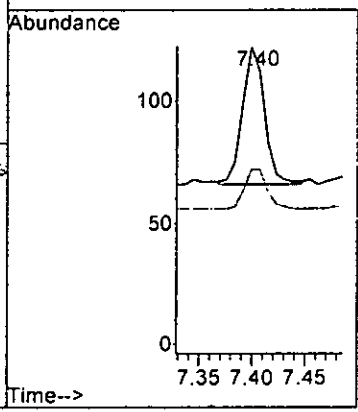
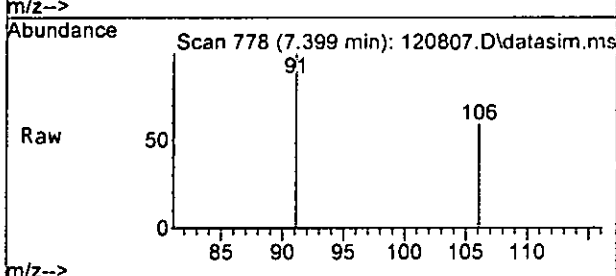
Tgt Ion	Resp	Lower	Upper
164	100		
129	94.3	62.5	122.5
131	88.6	60.3	120.3
166	117.1	98.4	158.4





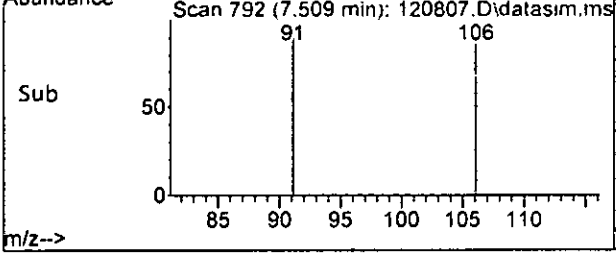
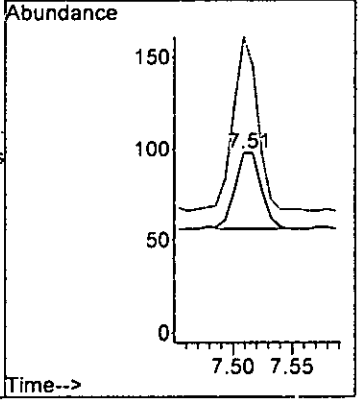
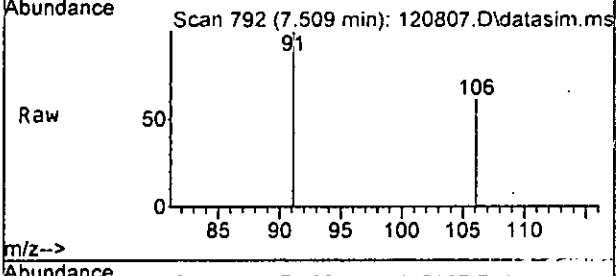
#49  
Ethylbenzene  
Concen: Below Cal  
RT: 7.40 min Scan# 778  
Delta R.T. -0.001 min  
Lab File: 120807.D  
Acq: 08 Dec 2022 07:46 am

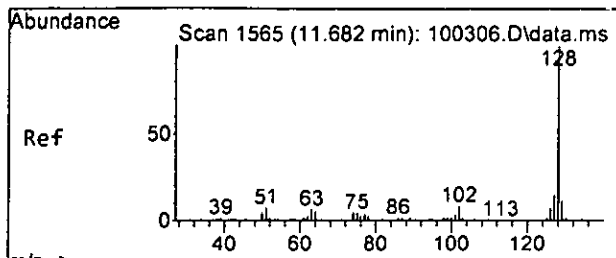
Tgt Ion: 91 Resp: 80  
Ion Ratio Lower Upper  
91 100  
106 29.1 0.0 58.4



#51  
m,p-Xylene  
Concen: Below Cal  
RT: 7.51 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: 120807.D  
Acq: 08 Dec 2022 07:46 am

Tgt Ion: 106 Resp: 65  
Ion Ratio Lower Upper  
106 100  
91 223.8 191.7 251.7

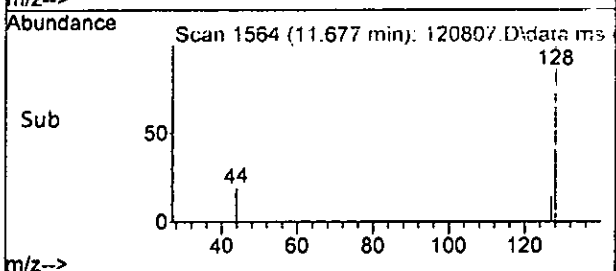
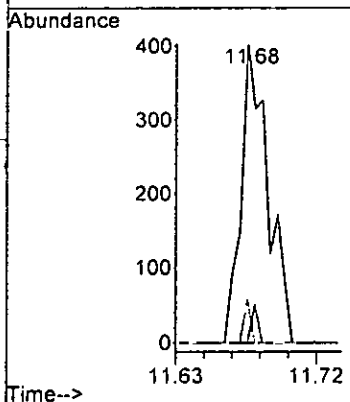
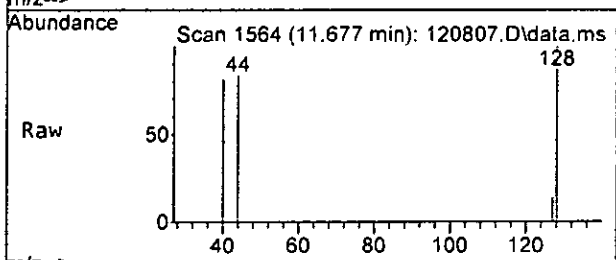




#75  
 Naphthalene  
 Concen: 0.099 ppb  
 RT: 11.68 min Scan# 1564  
 Delta R.T. -0.005 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

Tgt Ion: 128 Resp: 443

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	41.7
127	14.4	0.0	43.5



Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120807.D  
 Acq On : 08 Dec 2022 07:46 am  
 Operator : LM  
 Sample : 02-2869 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 08:33:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	44374	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35325	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	18697	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	12305	10.522	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery = 105.20%			
30) 1,2-Dichloroethane-d4	4.36	102	2669	10.090	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery = 100.90%			
35) Toluene-d8	5.98	98	44292	10.233	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery = 102.30%			
57) 4-Bromofluorobenzene	8.38	95	16694	10.334	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery = 103.30%			
<b>Target Compounds</b>						
2) Ethanol	0.00		0	N.D.		Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.23	50	1650	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) Bromomethane	1.53	94	262	Below Cal	#	18
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	0.00		0	N.D.		
11) Acetone	2.27	58	176	1.271	ppb	# 1
12) 1,1-Dichloroethene	0.00		0	N.D.		
13) Hexane	0.00		0	N.D.		
14) Methylene chloride	2.61	84	1221	0.304	ppb	# 62
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17) trans-1,2-Dichloroethene	0.00		0	N.D.		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.74	77	67	Below Cal		54
22) cis-1,2-Dichloroethene	0.00		0	N.D.		
23) Chloroform	0.00		0	N.D.		
24) 2-Butanone (MEK)	3.71	43	95	Below Cal		63
25) t-Amyl methyl ether (T...)	0.00		0	N.D.		
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.		
27) 1,1,1-Trichloroethane	0.00		0	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31) Benzene	0.00		0	N.D.		
32) Trichloroethene	0.00		0	N.D.		
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120807.D  
 Acq On : 08 Dec 2022 07:46 am  
 Operator : LM  
 Sample : 02-2869 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

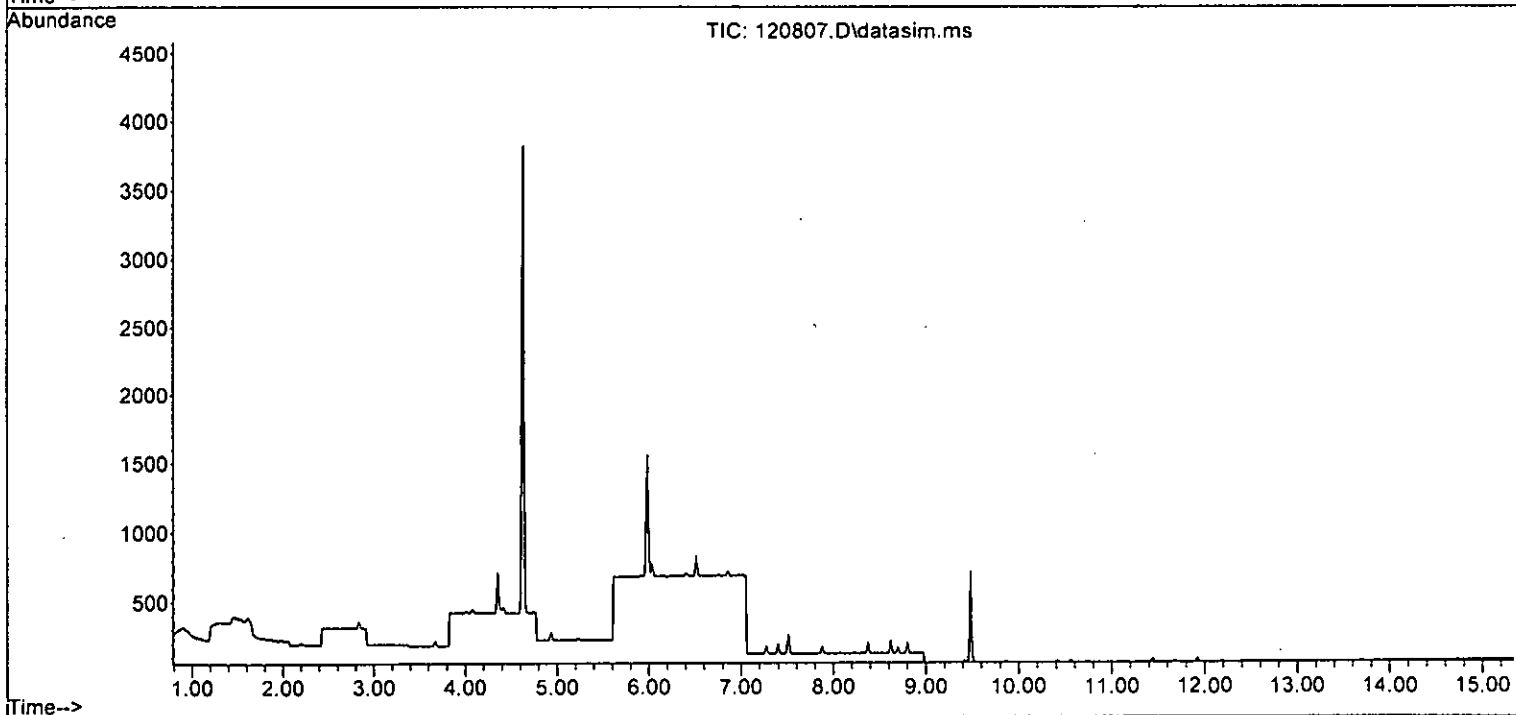
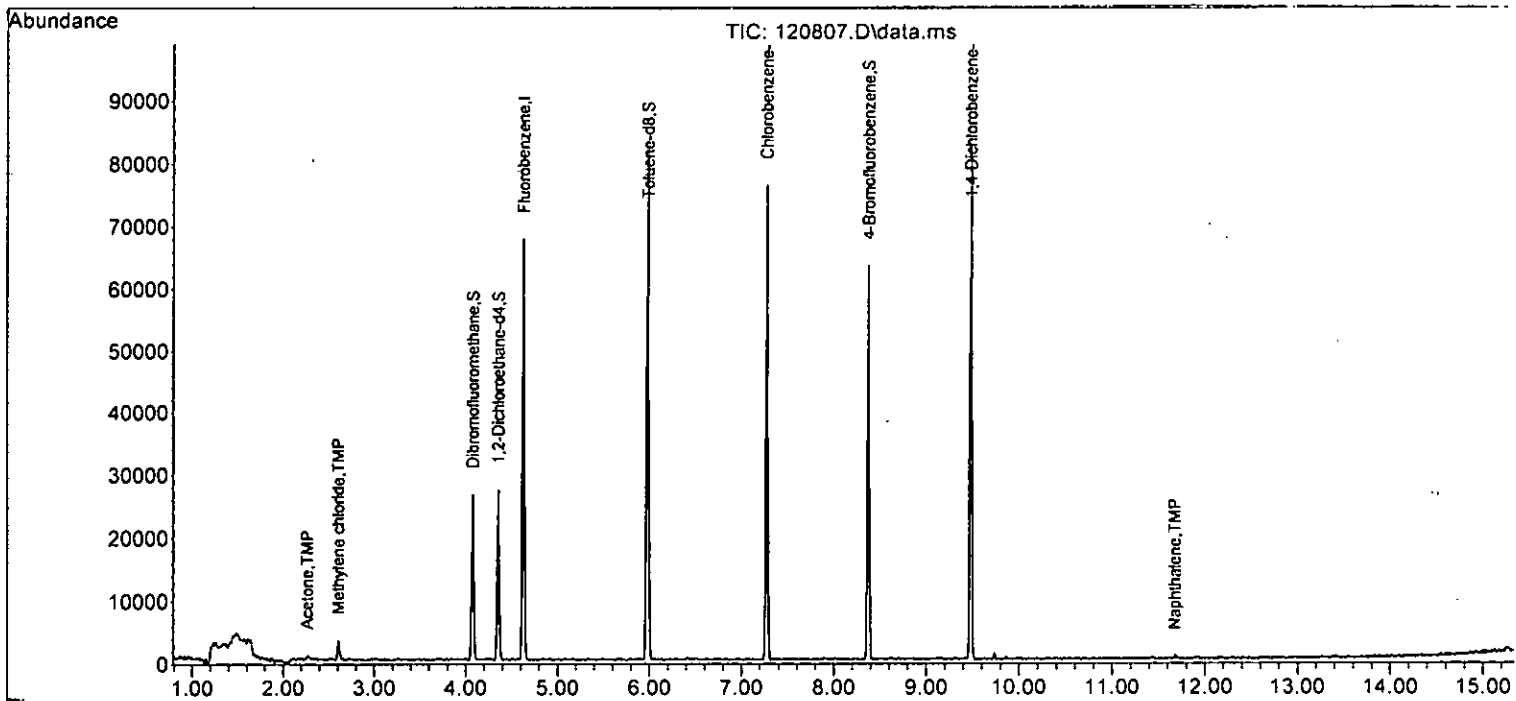
Quant Time: Dec 08 08:33:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40) Toluene	0.00		0		N.D.	
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D.	
43) 2-Hexanone	0.00		0		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.51	164	58	Below Cal		95
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.40	91	80	Below Cal		99
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.51	106	65	Below Cal		99
52) o-Xylene	0.00		0		N.D.	
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	8.23	105	114		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.62	91	111		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.80	105	97		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.70	91	71		N.D.	
64) 4-Chlorotoluene	8.81	91	92		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.15	105	66		N.D.	
67) sec-Butylbenzene	9.31	105	111		N.D.	
68) p-Isopropyltoluene	0.00		0		N.D.	
69) 1,3-Dichlorobenzene	9.42	146	56		N.D.	
70) 1,4-Dichlorobenzene	9.50	146	69		N.D.	
71) 1,2-Dichlorobenzene	9.86	146	50		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	11.44	180	132		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.68	128	443	0.099 ppb		85
76) 1,2,3-Trichlorobenzene	11.91	180	122		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120807.D  
 Acq On : 08 Dec 2022 07:46 am  
 Operator : LM  
 Sample : 02-2869 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 08:33:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120907.D  
 Acq On : 09 Dec 2022 11:15 am  
 Operator : lm  
 Sample : 02-2859 mb2  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

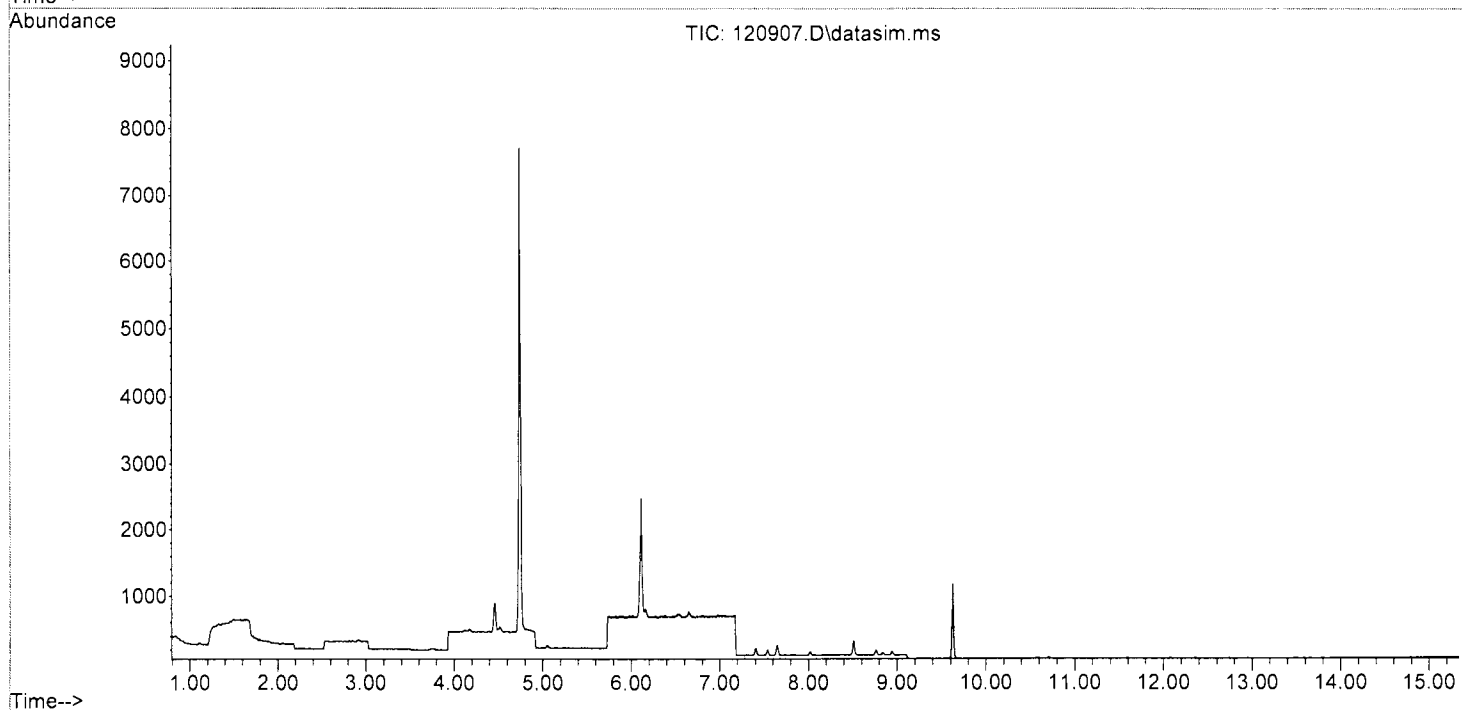
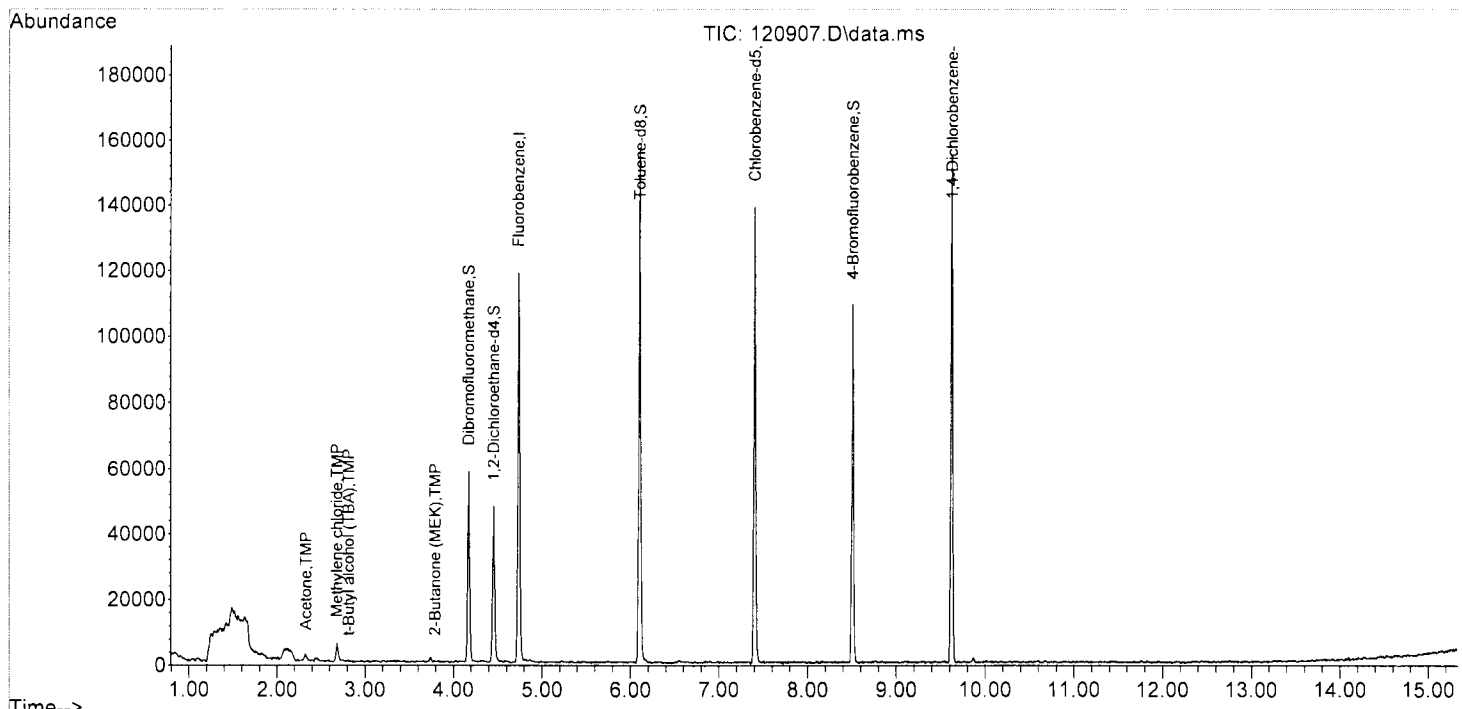
Quant Time: Dec 09 11:50:37 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

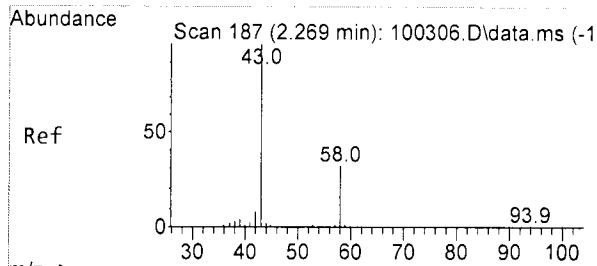
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	107629	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	70337	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37467	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	27131	7.913	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	79.10%
30) 1,2-Dichloroethane-d4	4.45	102	5438	8.462	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	84.60%
35) Toluene-d8	6.11	98	90602	9.365	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	93.70%
57) 4-Bromofluorobenzene	8.51	95	29628	13.050	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	130.50%
Target Compounds						
					Qvalue	
11) Acetone	2.33	58	725	4.506	ppb	91
14) Methylene chloride	2.68	84	2592	0.313	ppb	86
15) t-Butyl alcohol (TBA)	2.82	59	120	0.500	ppb	37
21) 2,2-Dichloropropane	3.73	77	92	Below Cal	#	43
24) 2-Butanone (MEK)	3.79	43	266	0.827	ppb	57
49] Ethylbenzene	7.54	91	82	Below Cal		99
51] m,p-Xylene	7.65	106	77	Below Cal		100
52] o-Xylene	8.02	106	25	Below Cal		86
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120907.D  
 Acq On : 09 Dec 2022 11:15 am  
 Operator : lm  
 Sample : 02-2859 mb2  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

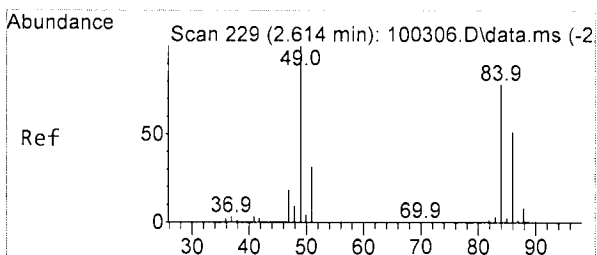
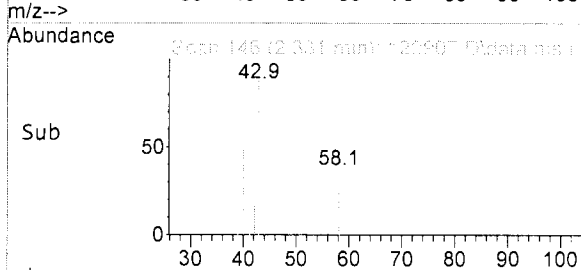
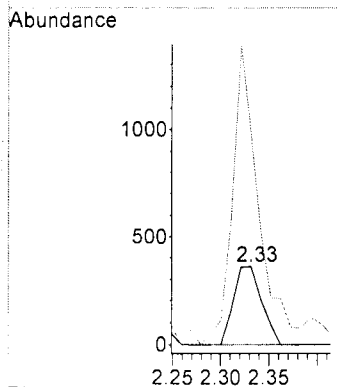
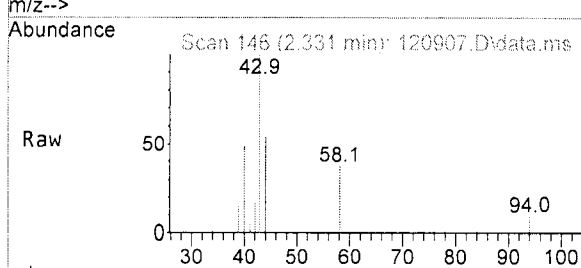
Quant Time: Dec 09 11:50:37 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M





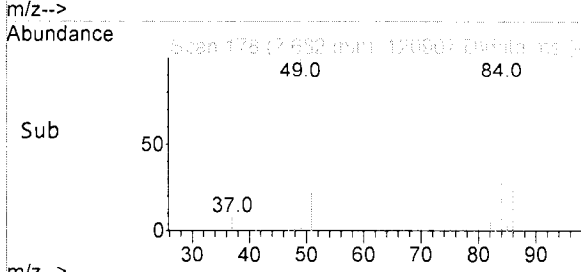
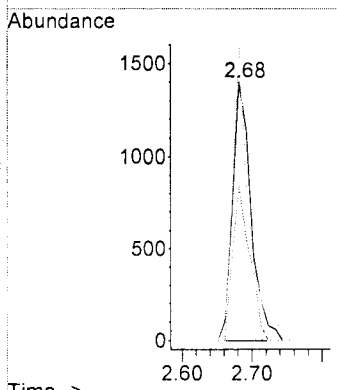
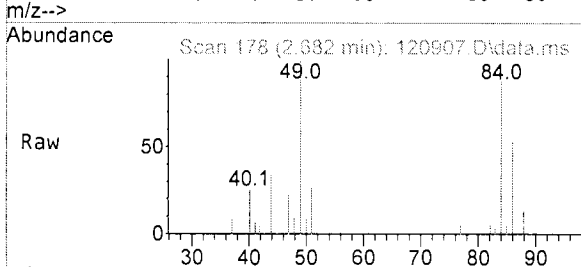
#11  
 Acetone  
 Concen: 4.506 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

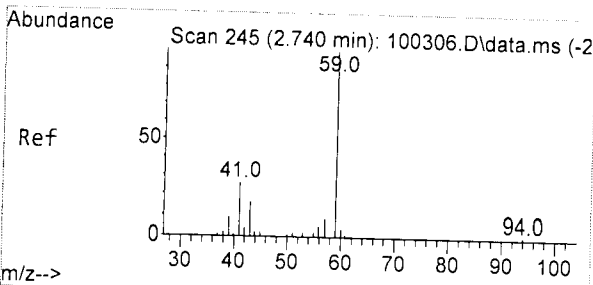
Tgt Ion: 58 Resp: 725  
 Ion Ratio Lower Upper  
 58 100  
 43 359.3 350.8 410.8



#14  
 Methylene chloride  
 Concen: 0.313 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

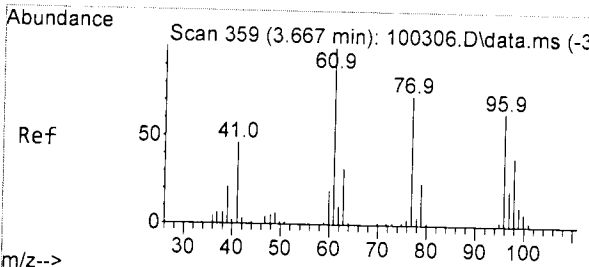
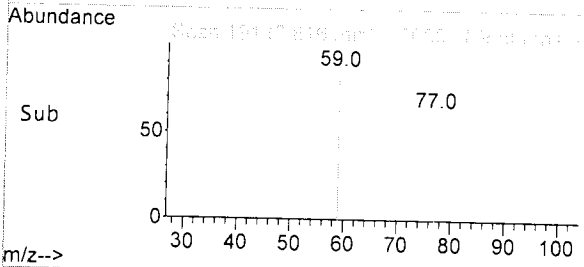
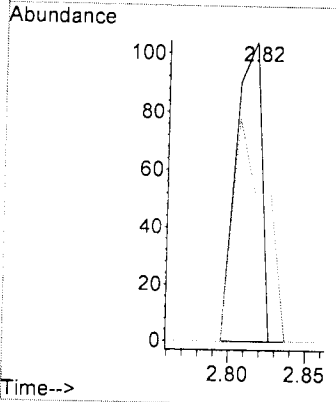
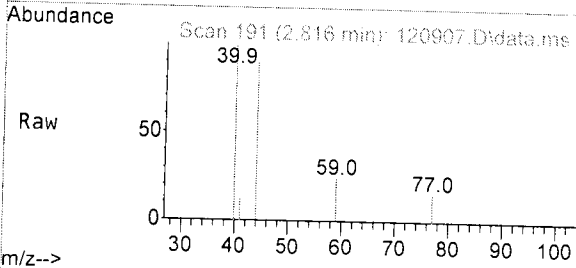
Tgt Ion: 84 Resp: 2592  
 Ion Ratio Lower Upper  
 84 100  
 86 60.2 41.2 101.2  
 49 114.4 69.2 129.2





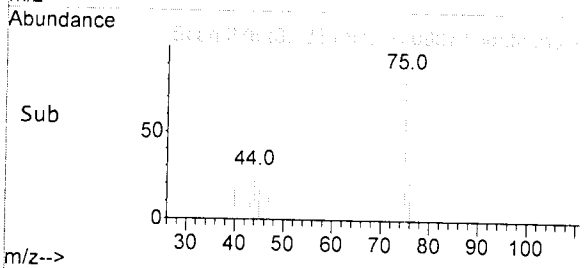
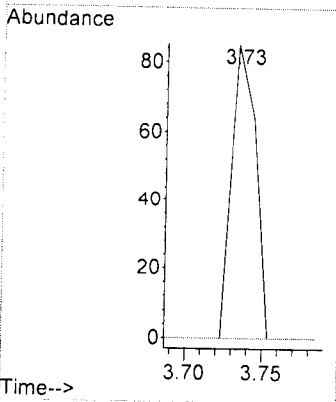
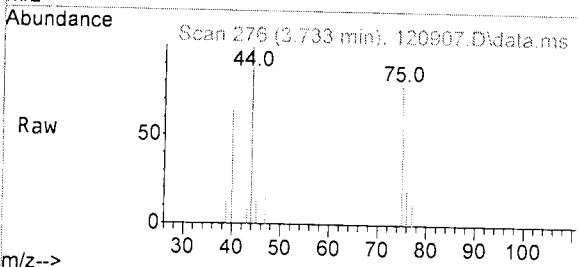
#15  
 t-Butyl alcohol (TBA)  
 Concen: 0.500 ppb  
 RT: 2.82 min Scan# 191  
 Delta R.T. 0.010 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

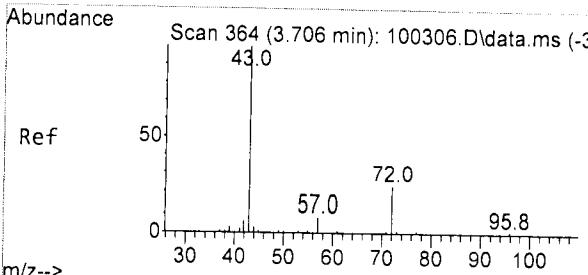
Tgt Ion: 59 Resp: 120  
 Ion Ratio Lower Upper  
 59 100  
 41 50.0 0.0 50.8



#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.73 min Scan# 276  
 Delta R.T. -0.031 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

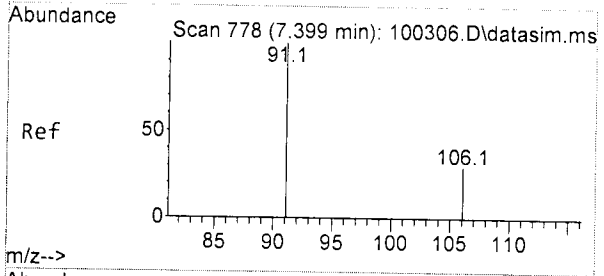
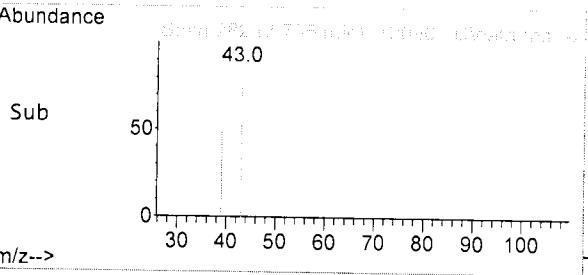
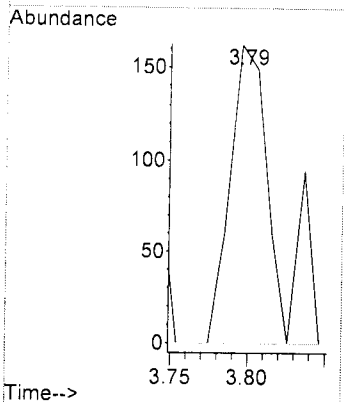
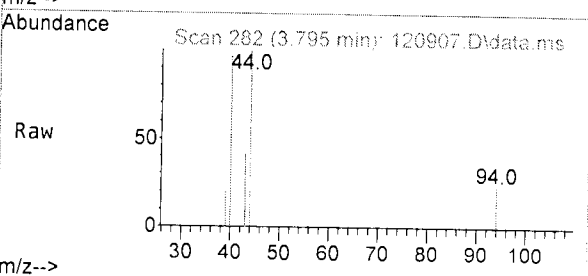
Tgt Ion: 77 Resp: 92  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 2.0 62.0#





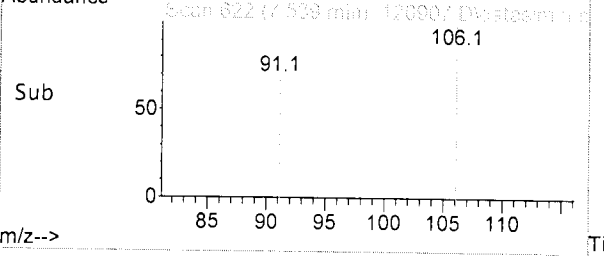
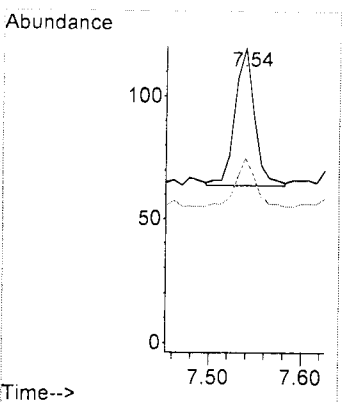
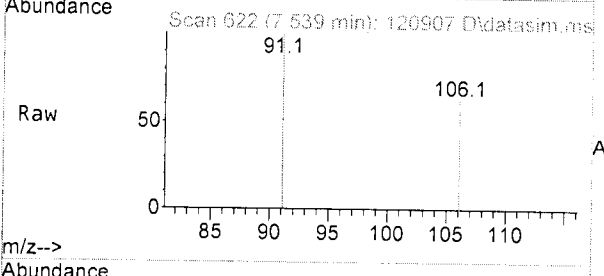
#24  
 2-Butanone (MEK)  
 Concen: 0.827 ppb  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.010 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

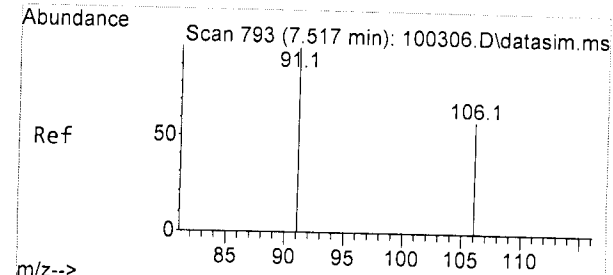
Tgt Ion	Resp	Lower	Upper
43	100		
72	0.0	0.0	54.9
57	0.0	0.0	28.8



#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. 0.000 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

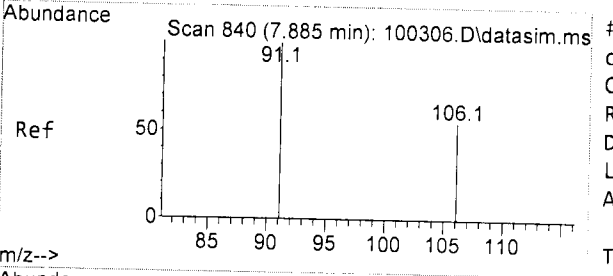
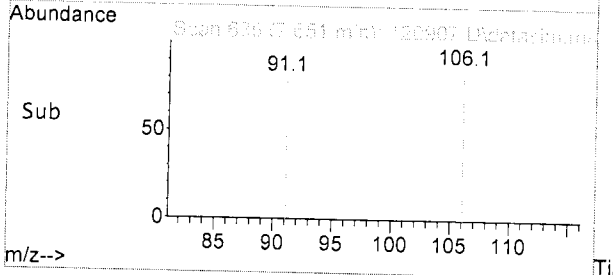
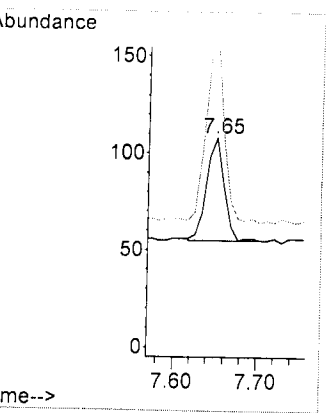
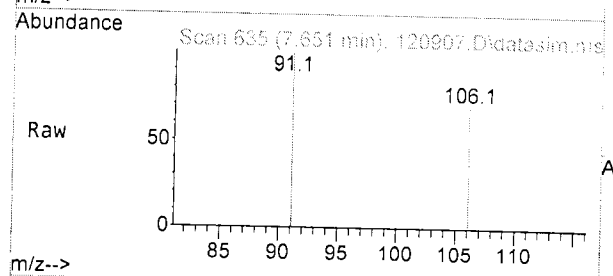
Tgt Ion	Resp	Lower	Upper
91	100		
106	36.4	7.1	67.1





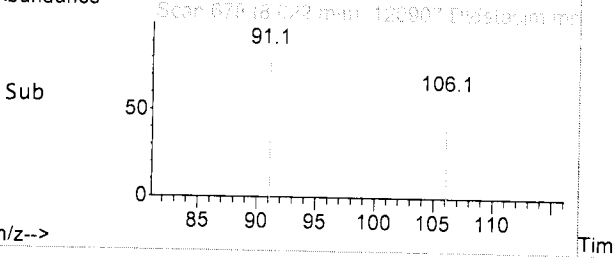
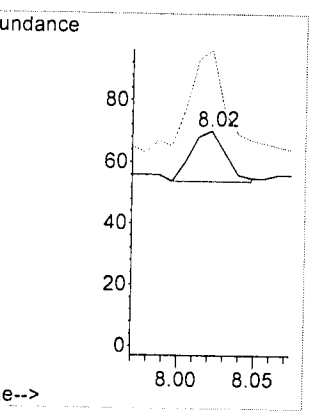
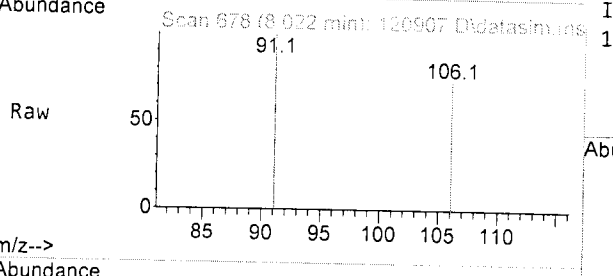
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

Tgt Ion: 106 Resp: 77  
 Ion Ratio Lower Upper  
 106 100  
 91 167.9 138.1 198.1



#52  
 o-Xylene  
 Concen: Below Cal  
 RT: 8.02 min Scan# 678  
 Delta R.T. -0.000 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

Tgt Ion: 106 Resp: 25  
 Ion Ratio Lower Upper  
 106 100  
 91 193.8 143.9 203.9



Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120907.D  
 Acq On : 09 Dec 2022 11:15 am  
 Operator : lm  
 Sample : 02-2859 mb2  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 11:50:37 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	107629	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	70337	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	37467	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	27131	7.913	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	79.10%	
30) 1,2-Dichloroethane-d4	4.45	102	5438	8.462	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	84.60%	
35) Toluene-d8	6.11	98	90602	9.365	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	93.70%	
57) 4-Bromofluorobenzene	8.51	95	29628	13.050	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	130.50%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.25	50	2025	N.D.			
6) Vinyl chloride	0.00		0	N.D.	d		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	0.00		0	N.D.			
11) Acetone	2.33	58	725	4.506	ppb	91	
12) 1,1-Dichloroethene	0.00		0	N.D.	d		
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.68	84	2592	0.313	ppb	86	
15) t-Butyl alcohol (TBA)	2.82	59	120	0.500	ppb	37	
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	3.40	45	35	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.73	77	92	Below Cal	#	43	
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.79	43	266	0.827	ppb	57	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26) 1,2-Dichloroethane (EDC)	4.52	62	68	N.D.			
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31) Benzene	0.00		0	N.D.			
32) Trichloroethene	0.00		0	N.D.	d		
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120907.D  
 Acq On : 09 Dec 2022 11:15 am  
 Operator : lm  
 Sample : 02-2859 mb2  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 11:50:37 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

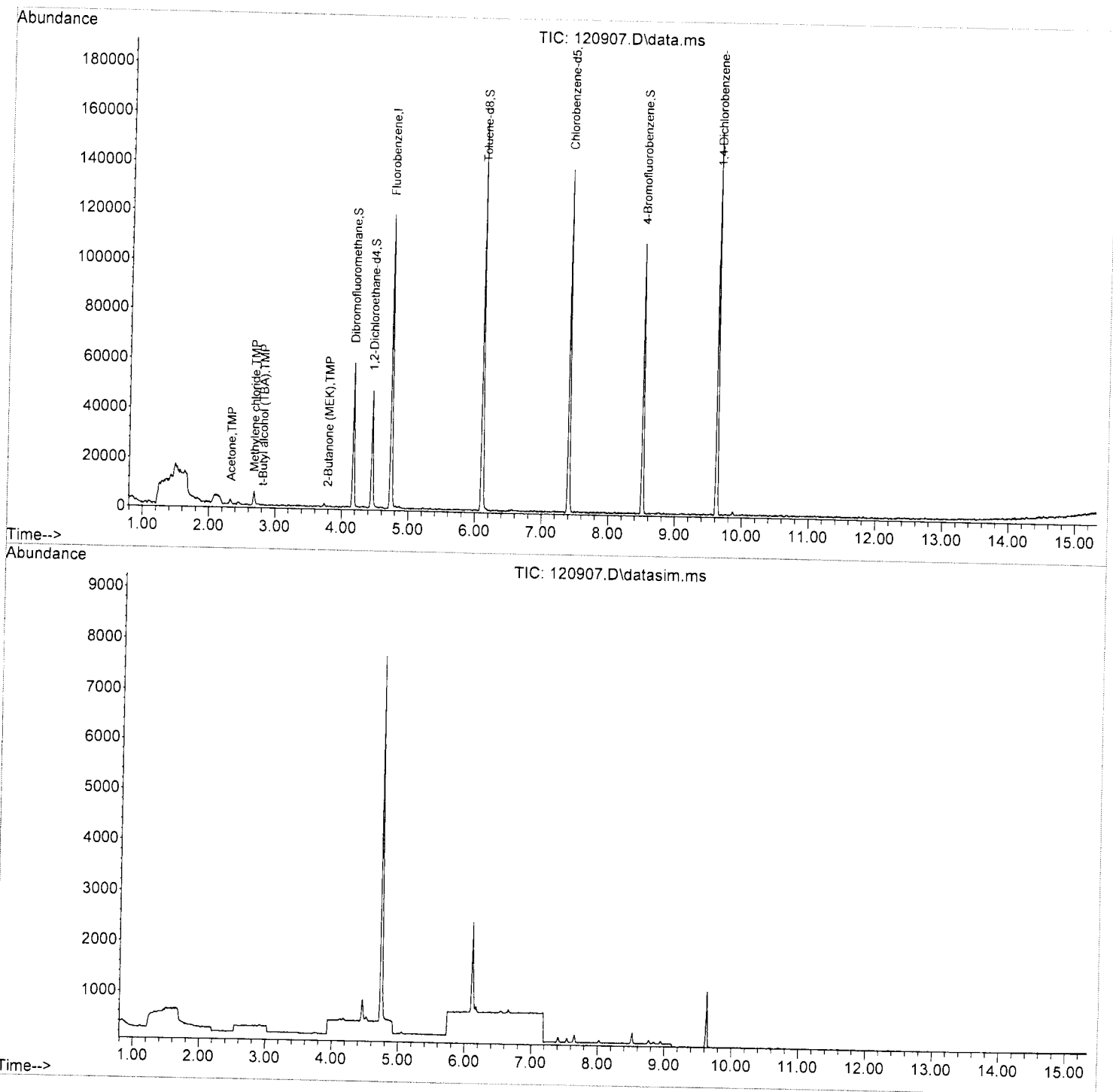
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40) Toluene	6.16	92	52	N.D.	
41) trans-1,3-Dichloropropene	0.00		0	N.D.	
42) 1,1,2-Trichloroethane	6.53	83	47	N.D.	
43) 2-Hexanone	0.00		0	N.D. d	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45) Tetrachloroethene	6.65	164	35	N.D.	
46) Dibromochloromethane	6.90	129	46	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	7.41	112	73	N.D.	
49] Ethylbenzene	7.54	91	82	Below Cal	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.65	106	77	Below Cal	100
52] o-Xylene	8.02	106	25	Below Cal	86
53) Styrene	8.03	104	26	N.D.	
54) Isopropylbenzene	8.37	105	35	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	8.76	91	191	N.D.	
59) Bromobenzene	0.00		0	N.D.	
60) 1,3,5-Trimethylbenzene	8.84	105	95	N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
62) 1,2,3-Trichloropropane	0.00		0	N.D. d	
63) 2-Chlorotoluene	8.76	91	191	N.D.	
64) 4-Chlorotoluene	8.76	91	191	N.D.	
65) tert-Butylbenzene	0.00		0	N.D.	
66) 1,2,4-Trimethylbenzene	9.31	105	147	N.D.	
67) sec-Butylbenzene	9.31	105	147	N.D.	
68) p-Isopropyltoluene	9.61	119	23	N.D.	
69) 1,3-Dichlorobenzene	9.64	146	48	N.D.	
70) 1,4-Dichlorobenzene	9.64	146	48	N.D.	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	
73) 1,2,4-Trichlorobenzene	11.59	180	22	N.D.	
74) Hexachlorobutadiene	0.00		0	N.D.	
75) Naphthalene	11.83	128	132	N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120907.D  
 Acq On : 09 Dec 2022 11:15 am  
 Operator : lm  
 Sample : 02-2859 mb2  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 11:50:37 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



**EPA 8260D**  
**Sample Data**

Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120908.D  
 Acq On : 09 Dec 2022 11:38 am  
 Operator : lm  
 Sample : 212083-01 rr  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

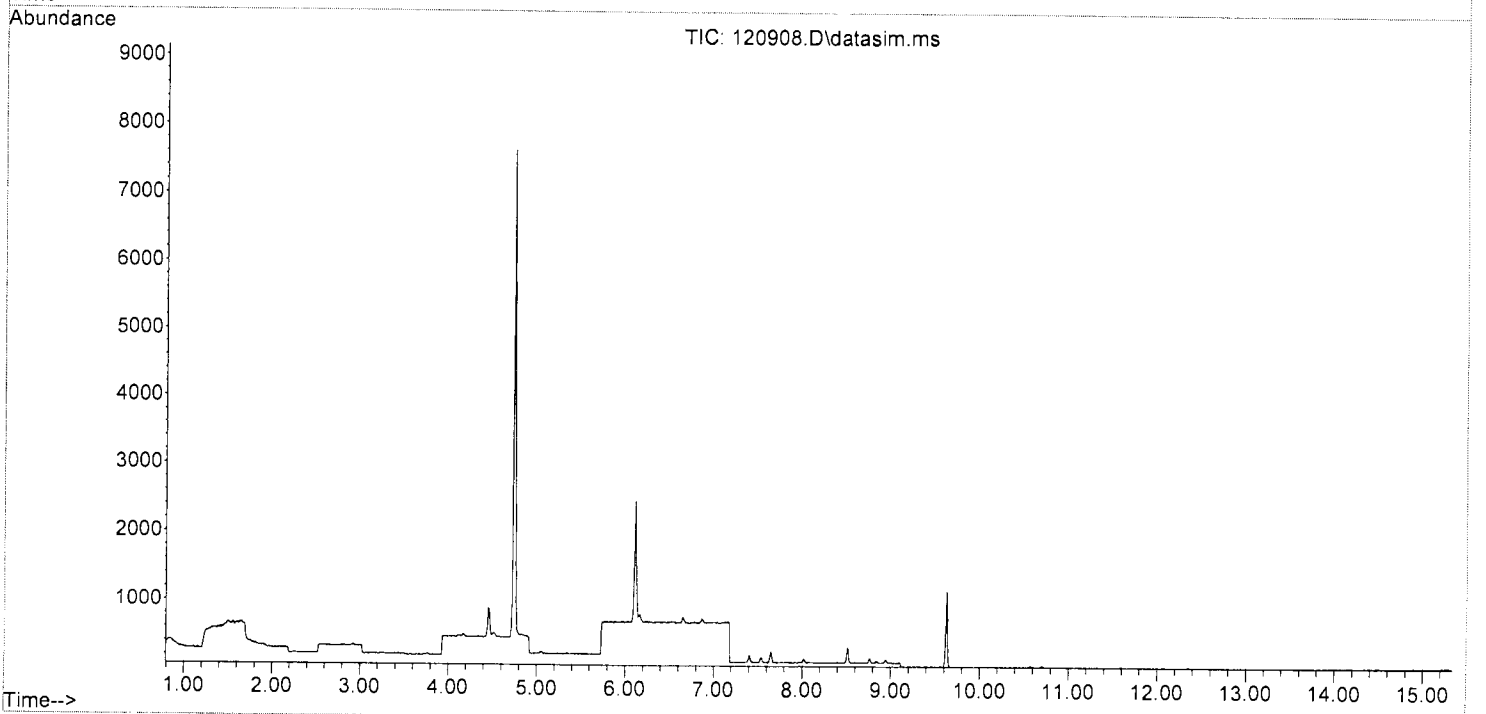
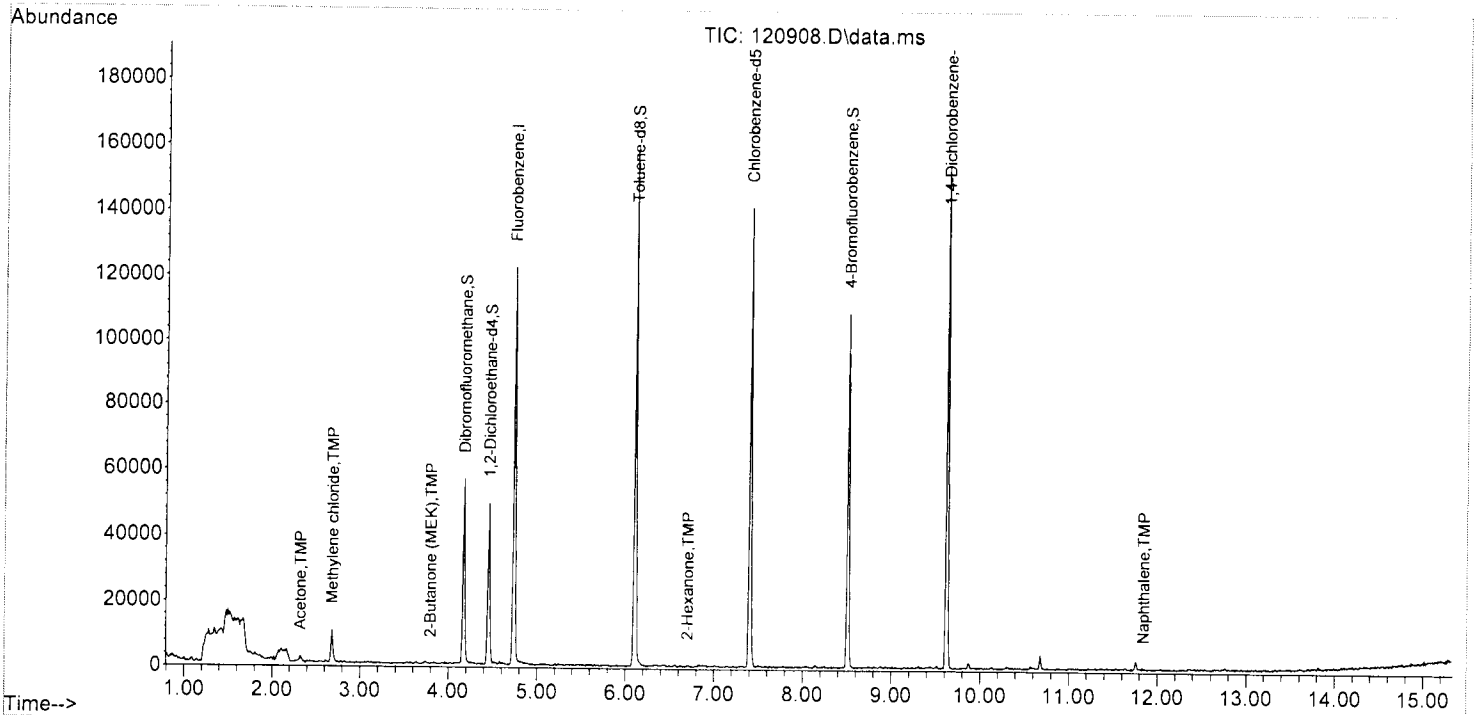
Quant Time: Dec 12 07:58:46 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

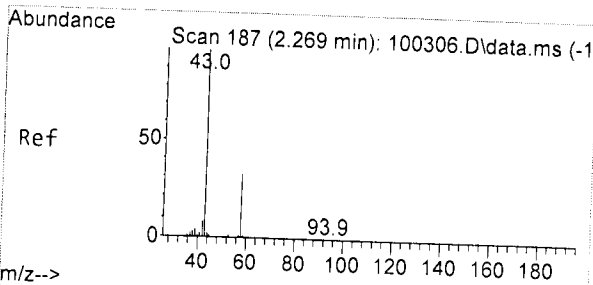
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	107181	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	71880	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37266	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	27381	8.019	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	80.20%
30) 1,2-Dichloroethane-d4	4.45	102	5750	8.985	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	89.90%
35) Toluene-d8	6.11	98	88668	9.203	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	92.00%
57) 4-Bromofluorobenzene	8.51	95	29383	13.012	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	130.10%
Target Compounds						
11) Acetone	2.32	58	480	3.647	ppb	# 79
14) Methylene chloride	2.68	84	4417	1.027	ppb	91
21) 2,2-Dichloropropane	3.75	77	36	Below Cal	#	43
24) 2-Butanone (MEK)	3.79	43	263	0.826	ppb	57
33) 1,2-Dichloropropane	5.25	63	71	Below Cal	#	81
43) 2-Hexanone	6.70	43	163	0.160	ppb	# 41
49] Ethylbenzene	7.54	91	91	Below Cal		88
51] m,p-Xylene	7.65	106	79	Below Cal		89
75) Naphthalene	11.84	128	146	0.020	ppb	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120908.D  
 Acq On : 09 Dec 2022 11:38 am  
 Operator : lm  
 Sample : 212083-01 rr  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

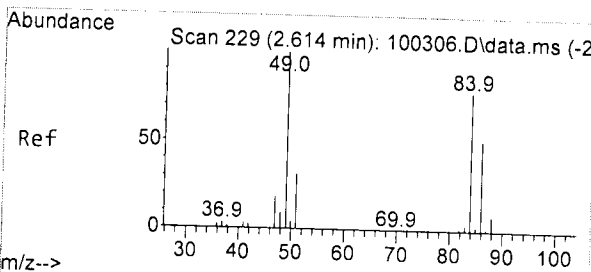
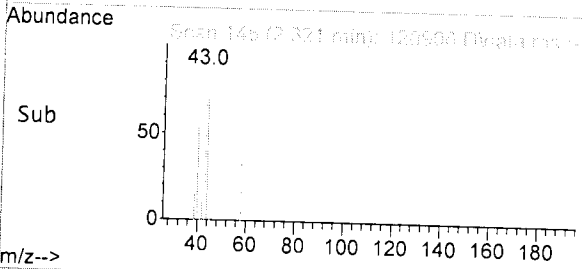
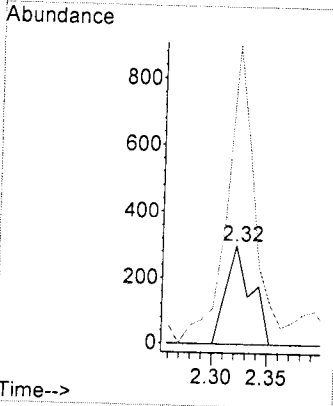
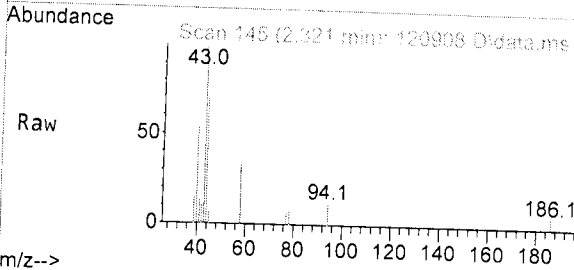
Quant Time: Dec 12 07:58:46 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M





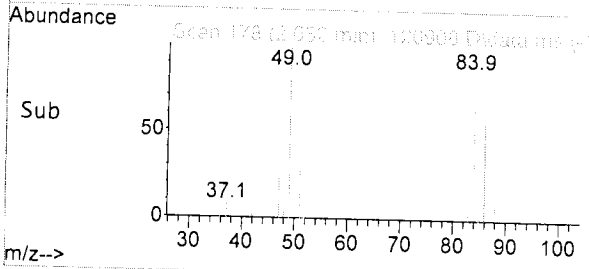
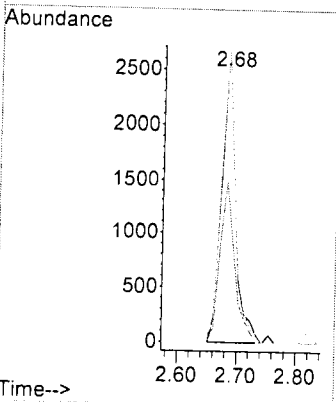
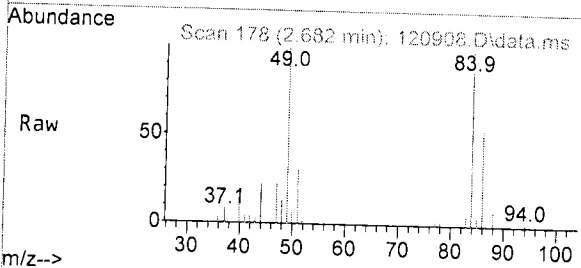
#11  
 Acetone  
 Concen: 3.647 ppb  
 RT: 2.32 min Scan# 145  
 Delta R.T. -0.000 min  
 Lab File: 120908.D  
 Acq: 09 Dec 2022 11:38 am

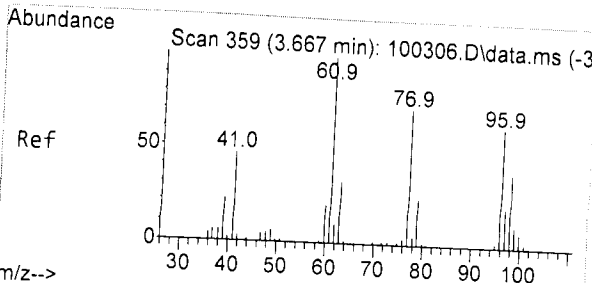
Tgt Ion	Resp	Lower	Upper
58	100		
43	333.5	350.8	410.8#



#14  
 Methylene chloride  
 Concen: 1.027 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 120908.D  
 Acq: 09 Dec 2022 11:38 am

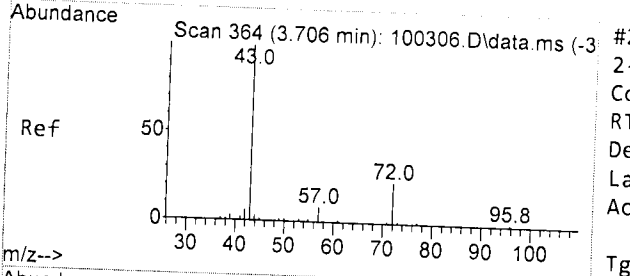
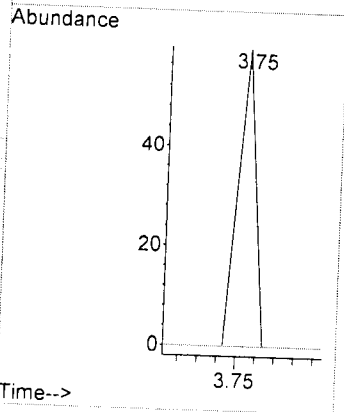
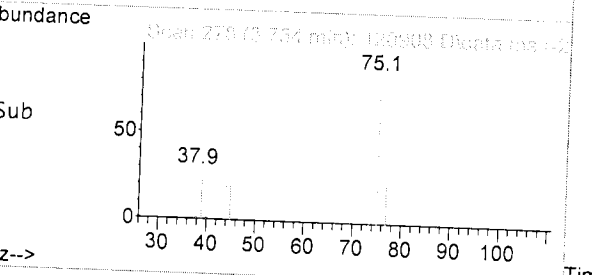
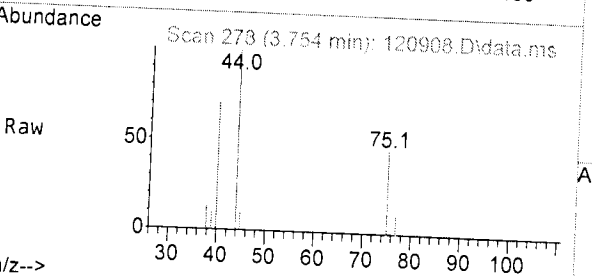
Tgt Ion	Resp	Lower	Upper
84	100		
86	54.9	41.2	101.2
49	100.0	69.2	129.2





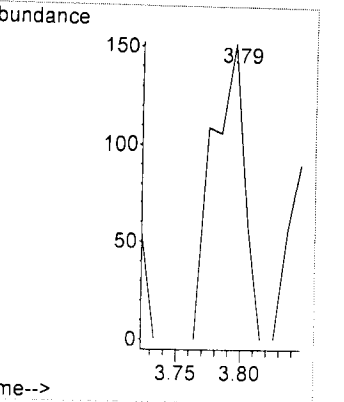
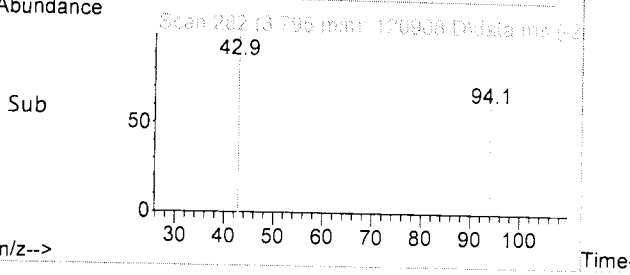
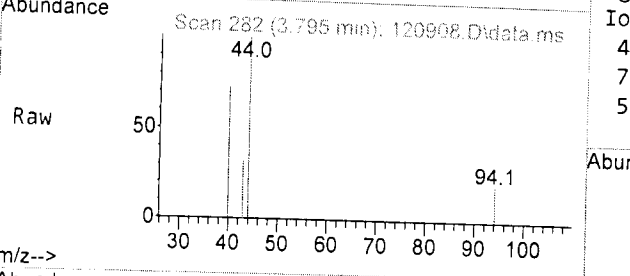
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.75 min Scan# 278  
 Delta R.T. -0.010 min  
 Lab File: 120908.D  
 Acq: 09 Dec 2022 11:38 am

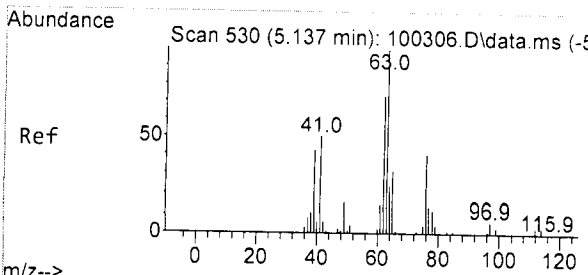
Tgt Ion	Resp	Lower	Upper
77	100		
97	0.0	2.0	62.0#



#24  
 2-Butanone (MEK)  
 Concen: 0.826 ppb  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.010 min  
 Lab File: 120908.D  
 Acq: 09 Dec 2022 11:38 am

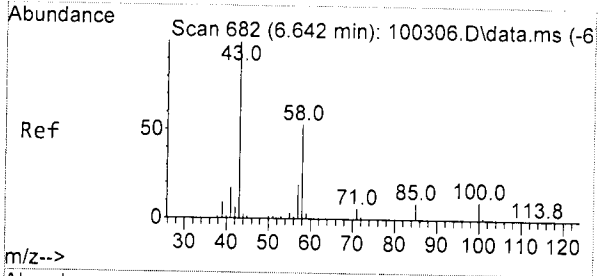
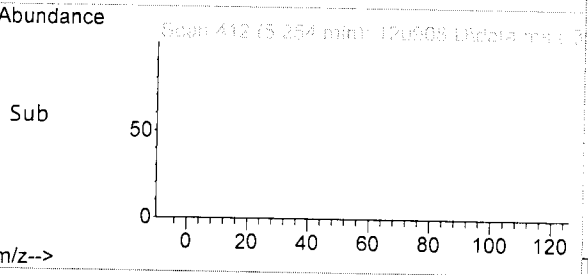
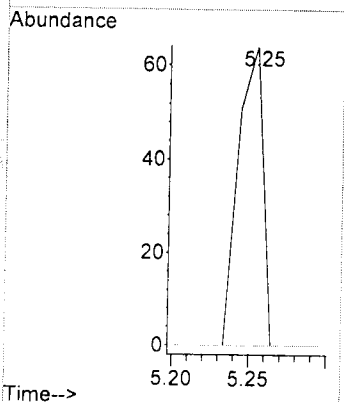
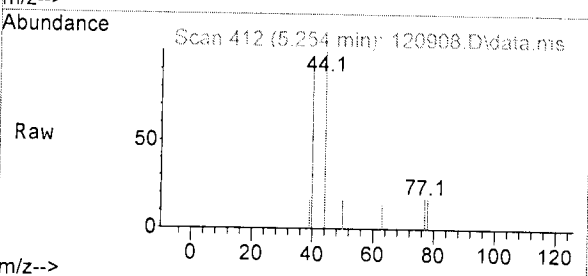
Tgt Ion	Resp	Lower	Upper
43	100		
72	0.0	0.0	54.9
57	0.0	0.0	28.8





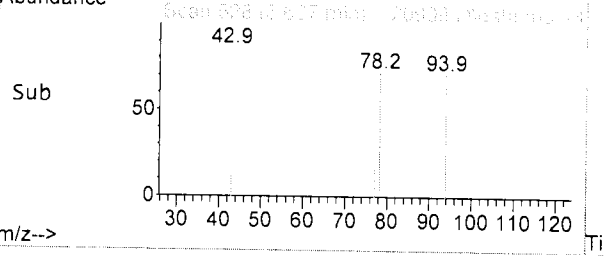
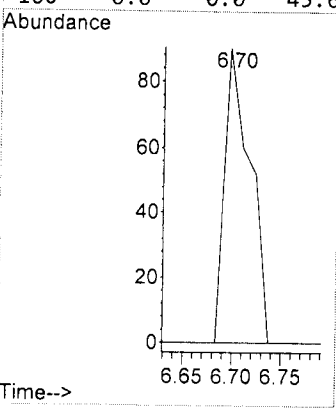
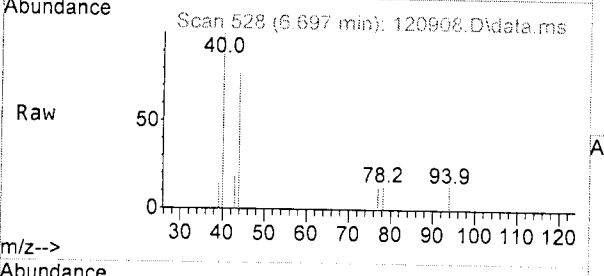
#33  
 1,2-Dichloropropane  
 Concen: Below Cal  
 RT: 5.25 min Scan# 412  
 Delta R.T. 0.010 min  
 Lab File: 120908.D  
 Acq: 09 Dec 2022 11:38 am

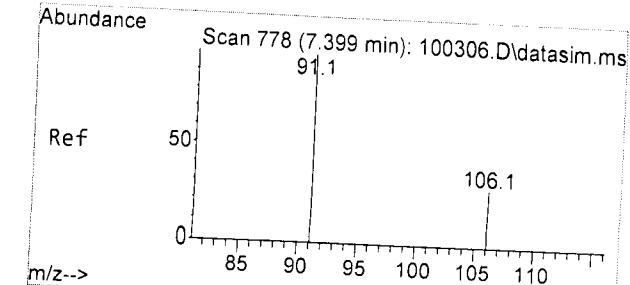
Tgt Ion	Resp	Lower	Upper
63	100		
112	0.0	0.0	36.5



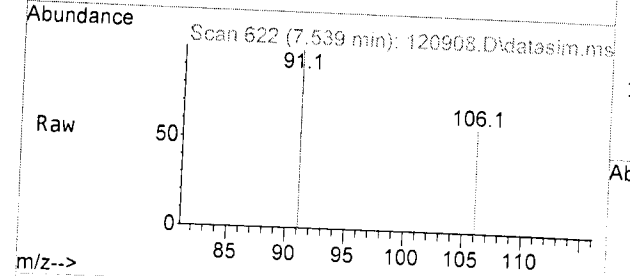
#43  
 2-Hexanone  
 Concen: 0.160 ppb  
 RT: 6.70 min Scan# 528  
 Delta R.T. -0.067 min  
 Lab File: 120908.D  
 Acq: 09 Dec 2022 11:38 am

Tgt Ion	Resp	Lower	Upper
43	100		
58	0.0	19.4	79.4#
57	0.0	0.0	48.4
100	0.0	0.0	45.6

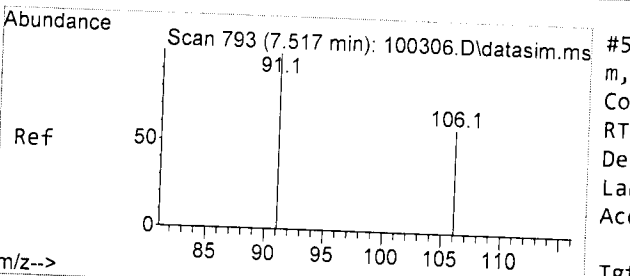
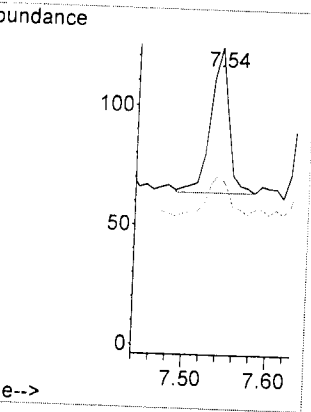
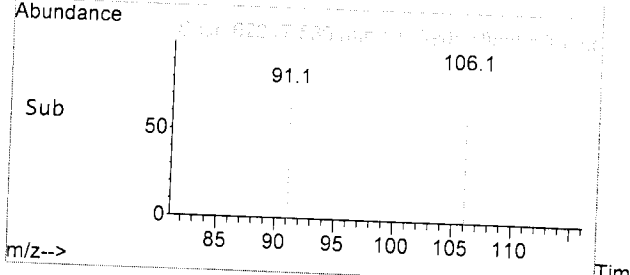




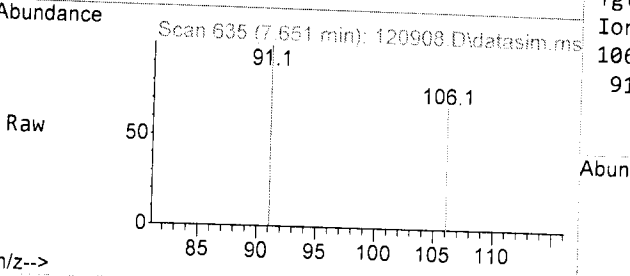
#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. 0.000 min  
 Lab File: 120908.D  
 Acq: 09 Dec 2022 11:38 am



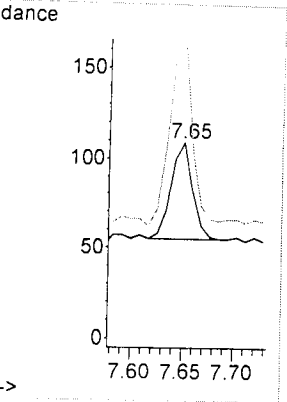
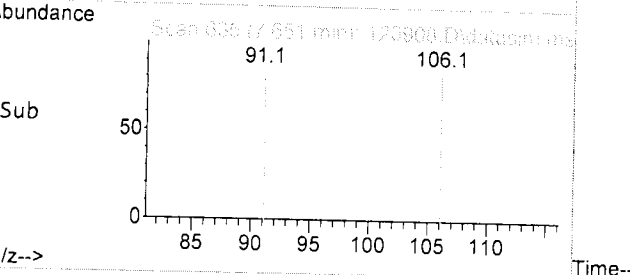
Tgt Ion: 91 Resp: 91  
 Ion Ratio Lower Upper  
 91 100  
 106 30.0 7.1 67.1



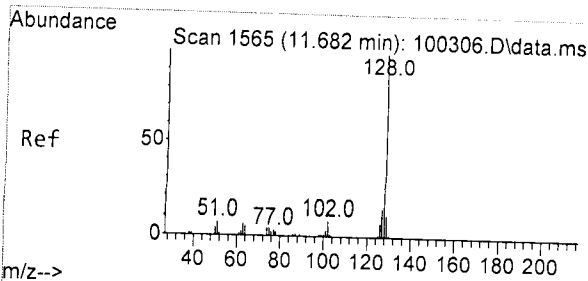
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: 120908.D  
 Acq: 09 Dec 2022 11:38 am



Tgt Ion: 106 Resp: 79  
 Ion Ratio Lower Upper  
 106 100  
 91 183.3 138.1 198.1

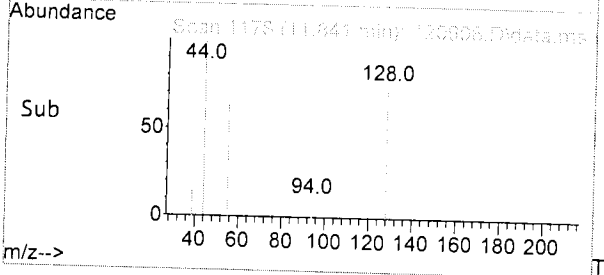
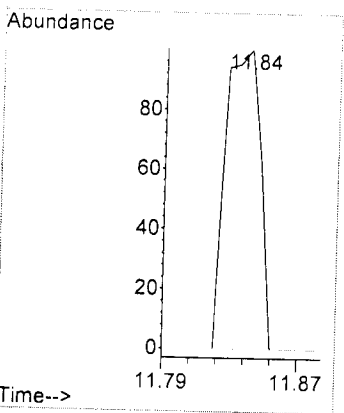
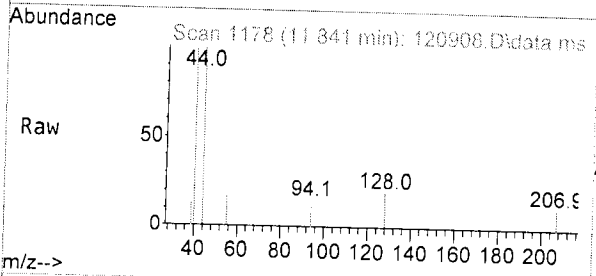






#75  
 Naphthalene  
 Concen: 0.020 ppb  
 RT: 11.84 min Scan# 1178  
 Delta R.T. 0.007 min  
 Lab File: 120908.D  
 Acq: 09 Dec 2022 11:38 am

Tgt Ion	Resp	Lower	Upper
128	100		
129	0.0	0.0	41.5
127	0.0	0.0	44.0



Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120908.D  
 Acq On : 09 Dec 2022 11:38 am  
 Operator : lm  
 Sample : 212083-01 rr  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:46 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	107181	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	71880	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	37266	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	27381	8.019	ppb	0.00	
Spiked Amount	10.000		Range 50 - 150	Recovery =	80.20%		
30) 1,2-Dichloroethane-d4	4.45	102	5750	8.985	ppb	0.00	
Spiked Amount	10.000		Range 71 - 132	Recovery =	89.90%		
35) Toluene-d8	6.11	98	88668	9.203	ppb	0.00	
Spiked Amount	10.000		Range 68 - 139	Recovery =	92.00%		
57) 4-Bromofluorobenzene	8.51	95	29383	13.012	ppb	0.00	
Spiked Amount	10.000		Range 62 - 136	Recovery =	130.10%		
Target Compounds							
2) Ethanol	2.32	45	34	No Calib			Qvalue
4) Dichlorodifluoromethane	1.10	85	64	N.D.			
5) Chloromethane	1.26	50	2912	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	1.57	94	388	N.D.			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.32	45	34	No Calib			
11) Acetone	2.32	58	480	3.647	ppb #	79	
12) 1,1-Dichloroethene	0.00		0	N.D.			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.68	84	4417	1.027	ppb	91	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.75	77	36	Below Cal	#	43	
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.79	43	263	0.826	ppb	57	
25) t-Amyl methyl ether (T...)	4.57	73	47	N.D.			
26) 1,2-Dichloroethane (EDC)	4.52	62	64	N.D.			
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31) Benzene	0.00		0	N.D.			
32) Trichloroethene	0.00		0	N.D.			
33) 1,2-Dichloropropane	5.25	63	71	Below Cal	#	81	
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120908.D  
 Acq On : 09 Dec 2022 11:38 am  
 Operator : lm  
 Sample : 212083-01 rr  
 MiSC : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:46 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

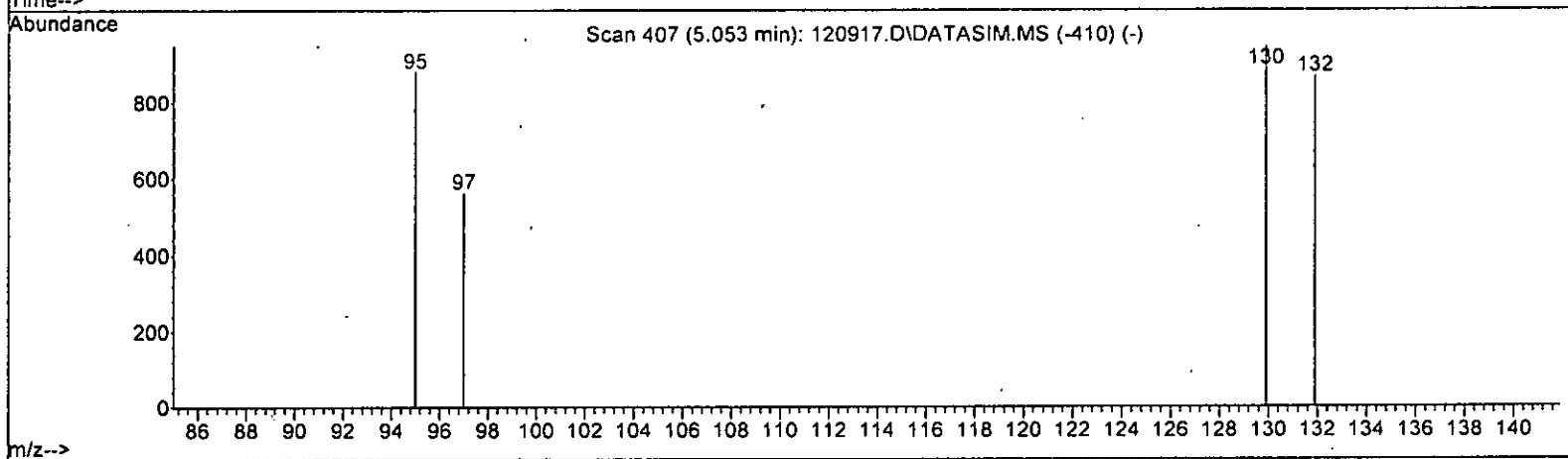
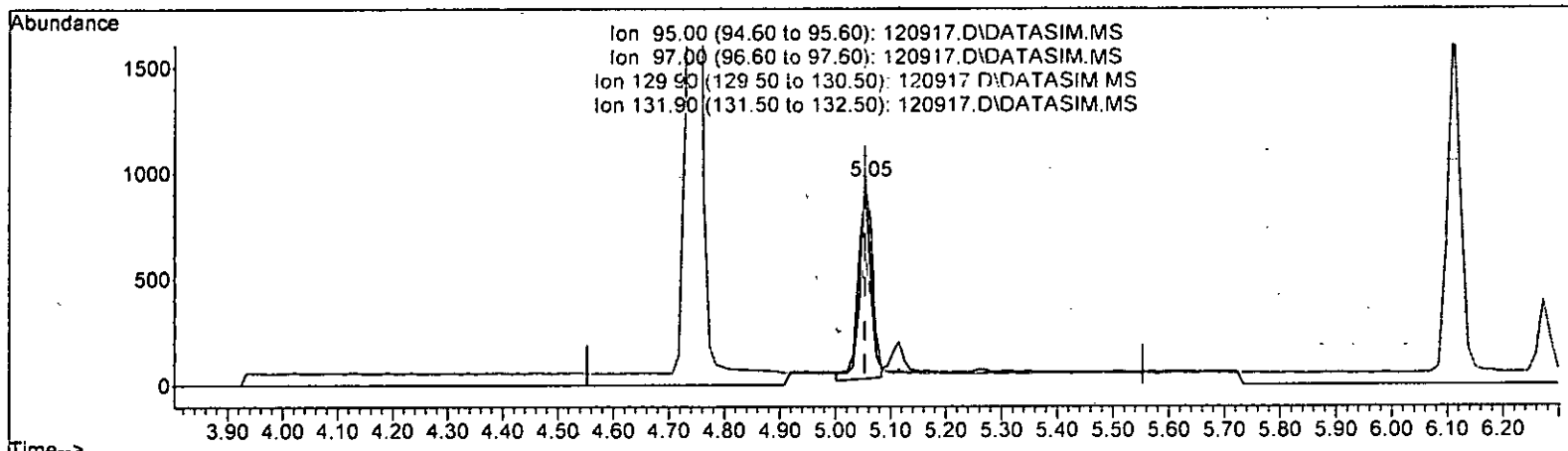
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	5.88	75	45		N.D.	
40) Toluene	6.16	92	61		N.D.	
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D.	
43) 2-Hexanone	6.70	43	163	0.160	ppb	# 41
44) 1,3-Dichloropropane	0.00		0		N.D.	
45) Tetrachloroethene	6.65	164	34		N.D.	
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	91	Below Cal		88
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.65	106	79	Below Cal		89
52) o-Xylene	0.00		0		N.D.	
53) Styrene	8.03	104	41		N.D.	
54) Isopropylbenzene	8.37	105	56		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.77	91	165		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	8.57	75	31		N.D.	
63) 2-Chlorotoluene	8.77	91	165		N.D.	
64) 4-Chlorotoluene	8.77	91	165		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.30	105	133		N.D.	
67) sec-Butylbenzene	9.30	105	133		N.D.	
68) p-Isopropyltoluene	9.60	119	28		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	11.60	180	25		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.84	128	146	0.020	ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120917.D  
 Acq On : 09 Dec 2022 03:07 pm  
 Operator : lm  
 Sample : 212083-02  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:23 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120917.D\DATA.MS

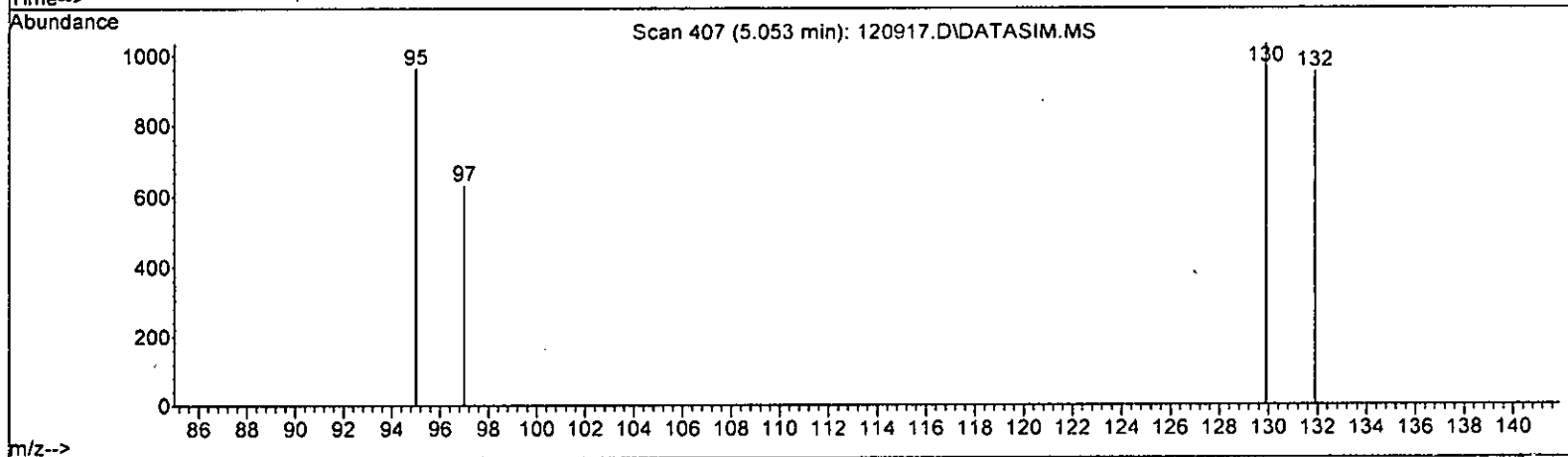
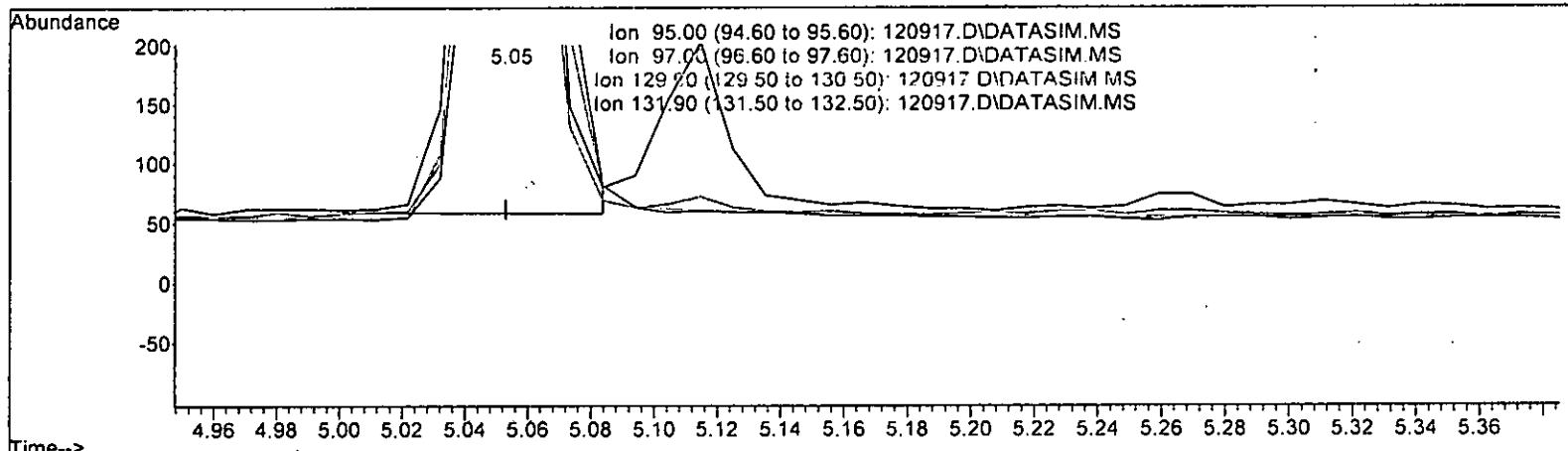
(32) Trichloroethene (TMP)  
 5.053min (-0.000) 0.501 ppb  
 response 1463

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	63.49
129.90	161.00	108.88#
131.90	160.10	99.67#

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120917.D  
 Acq On : 09 Dec 2022 03:07 pm  
 Operator : lm  
 Sample : 212083-02  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:23 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120917.D\DATA.MS

(32) Trichloroethene (TMP)  
 5.053min (-0.000) 0.449 ppb m  
 response 1312

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	65.49
129.90	161.00	107.48#
131.90	160.10	98.96#

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120917.D  
 Acq On : 09 Dec 2022 03:07 pm  
 Operator : lm  
 Sample : 212083-02  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS13

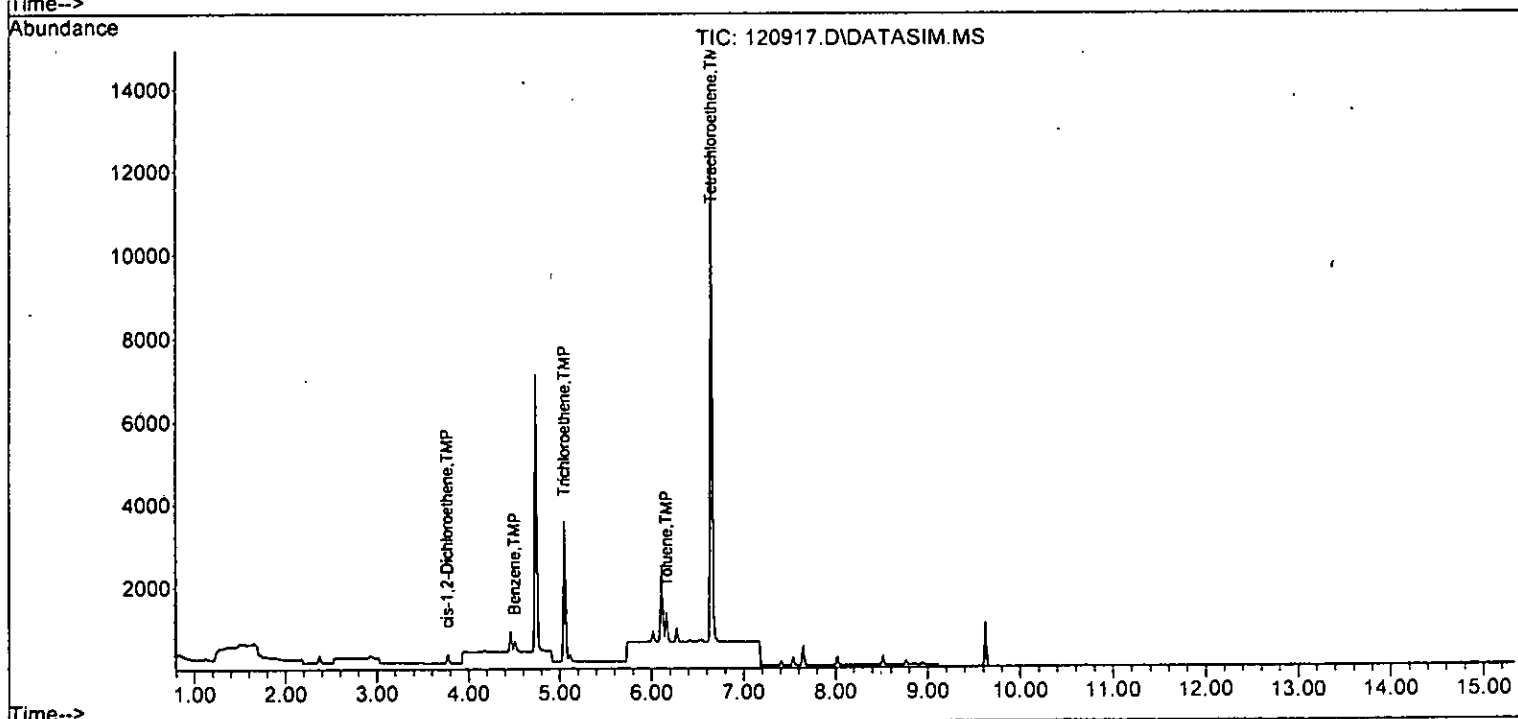
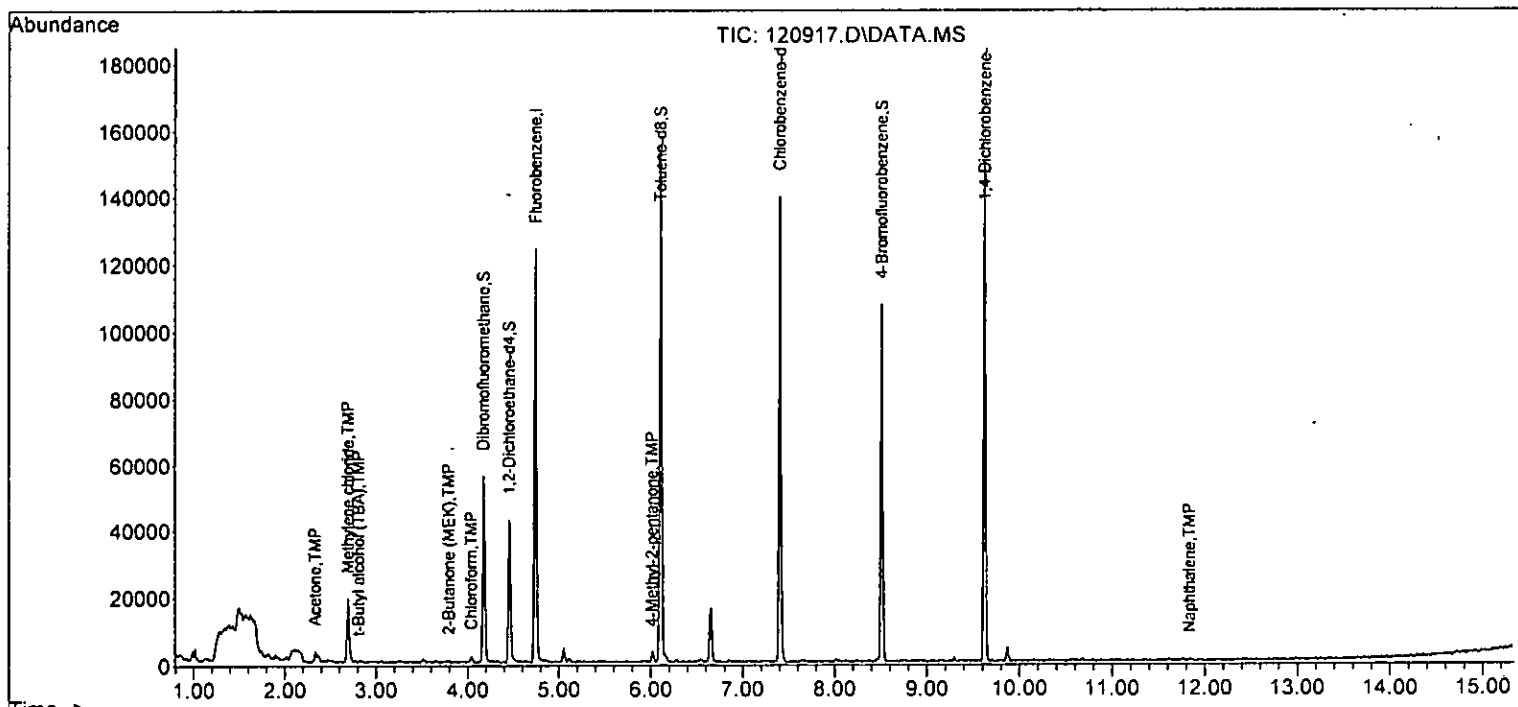
Quant Time: Dec 12 07:59:23 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

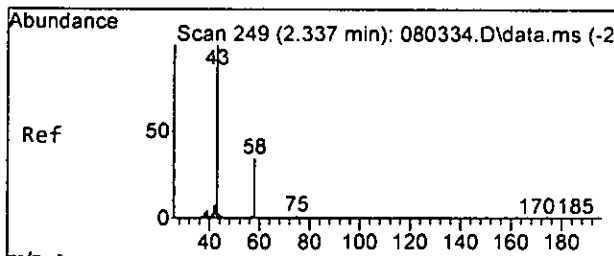
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	96012	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	68798	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	36325	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.18	113	26325	8.607	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	85.10%
30) 1,2-Dichloroethane-d4	4.45	102	5161	9.003	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	90.00%
35) Toluene-d8	6.11	98	86813	10.059	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	100.60%
57) 4-Bromofluorobenzene	8.51	95	29426	13.368	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	133.70%
Target Compounds						
						Qvalue
11) Acetone	2.33	58	1234	6.835	ppb #	39
14) Methylene chloride	2.69	84	8060	2.814	ppb	93
15) t-Butyl alcohol (TBA)	2.81	59	76	0.355	ppb #	1
21) 2,2-Dichloropropane	3.72	77	32	Below Cal	#	43
22) cis-1,2-Dichloroethene	3.77	96	129	0.045	ppb	87
23) Chloroform	4.04	83	1202	0.284	ppb	99
24) 2-Butanone (MEK)	3.79	43	871	1.402	ppb	84
31] Benzene	4.50	78	320	0.028	ppb	98
32] Trichloroethene	5.05	95	1312m	0.449	ppb	
33) 1,2-Dichloropropane	5.25	63	44	Below Cal	#	81
37) 4-Methyl-2-pentanone	6.01	85	469	1.231	ppb	92
40] Toluene	6.16	92	353	0.067	ppb	95
45] Tetrachloroethene	6.65	164	4284	1.421	ppb	97
49] Ethylbenzene	7.54	91	229	Below Cal		91
51] m,p-Xylene	7.65	106	229	Below Cal		88
75) Naphthalene	11.83	128	252	0.036	ppb	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120917.D  
 Acq On : 09 Dec 2022 03:07 pm  
 Operator : lm  
 Sample : 212083-02  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS13

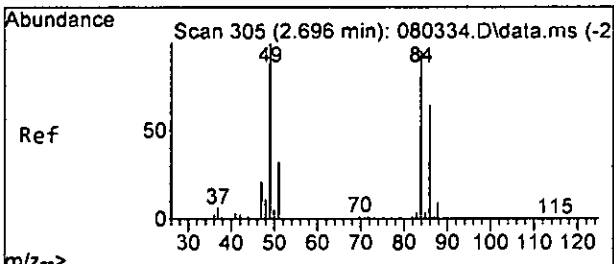
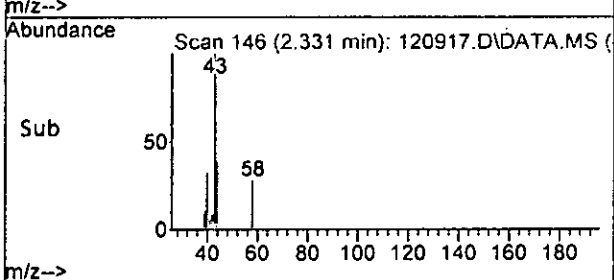
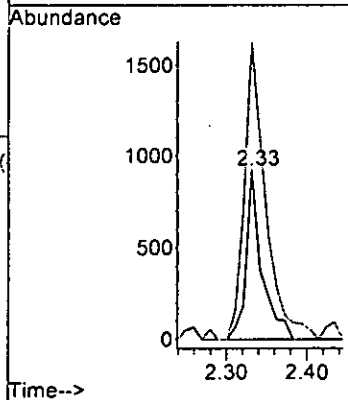
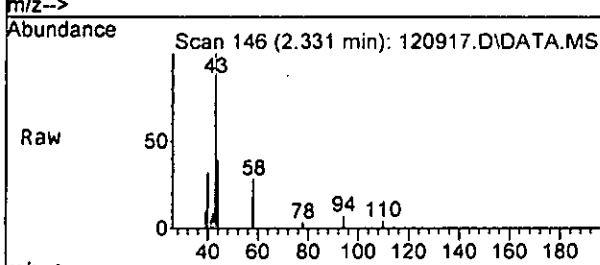
Quant Time: Dec 12 07:59:23 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M





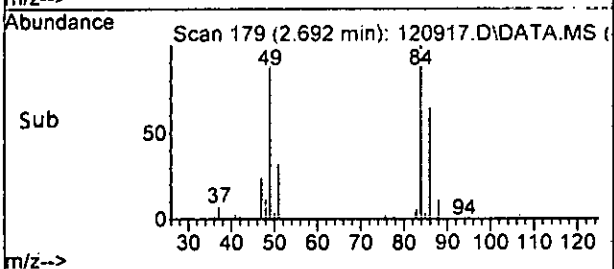
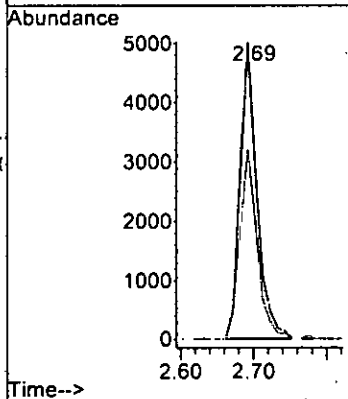
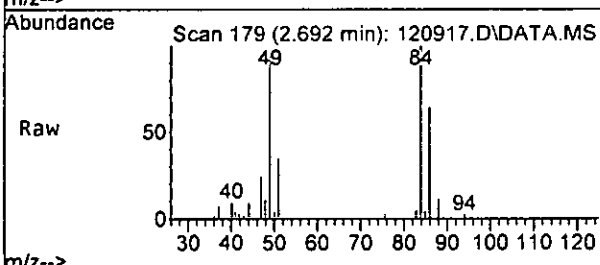
#11  
 Acetone  
 Concen: 6.835 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

Tgt Ion: 58 Resp: 1234  
 Ion Ratio Lower Upper  
 58 100  
 43 240.4 350.8 410.8#

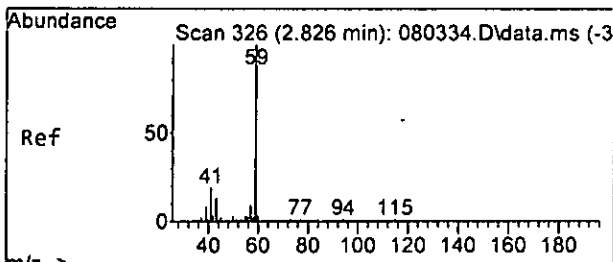


#14  
 Methylene chloride  
 Concen: 2.814 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

Tgt Ion: 84 Resp: 8060  
 Ion Ratio Lower Upper  
 84 100  
 86 63.9 41.2 101.2  
 49 93.8 69.2 129.2

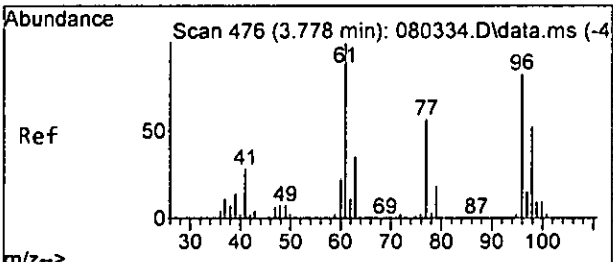
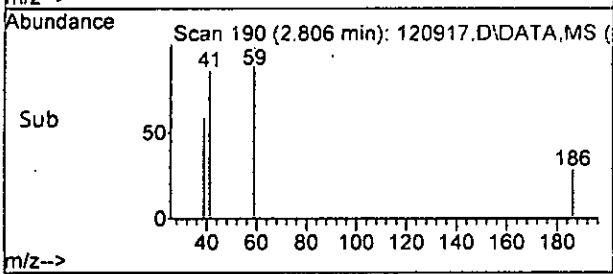
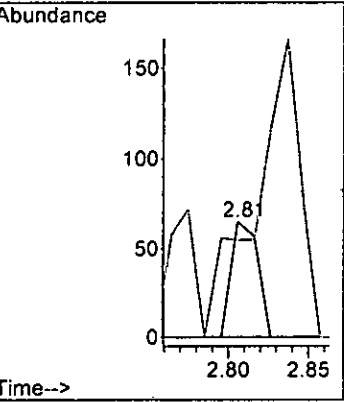
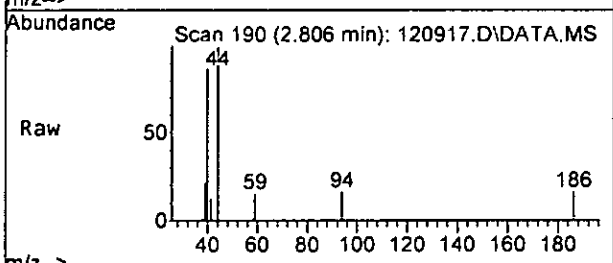






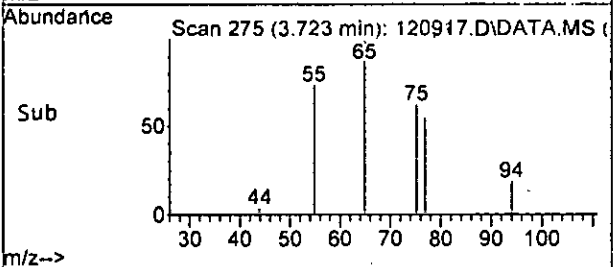
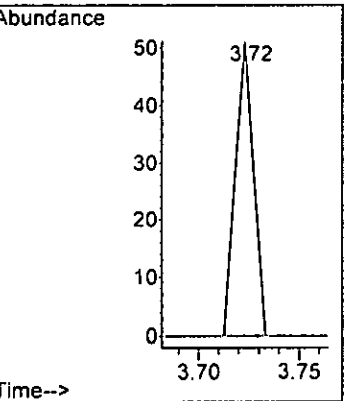
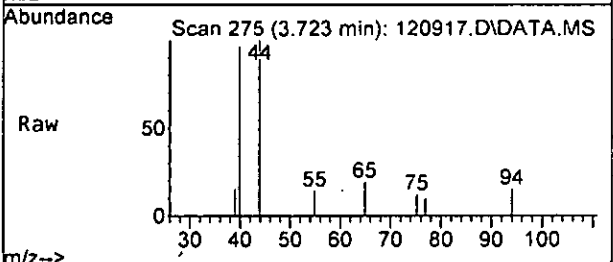
#15  
 t-Butyl alcohol (TBA)  
 Concen: 0.355 ppb  
 RT: 2.81 min Scan# 190  
 Delta R.T. -0.000 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

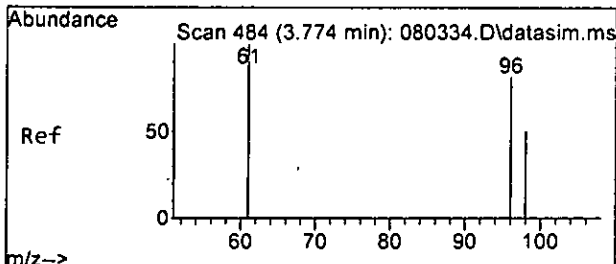
Tgt Ion: 59 Resp: 76  
 Ion Ratio Lower Upper  
 59 100  
 41 84.6 0.0 50.8#



#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.72 min Scan# 275  
 Delta R.T. -0.041 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

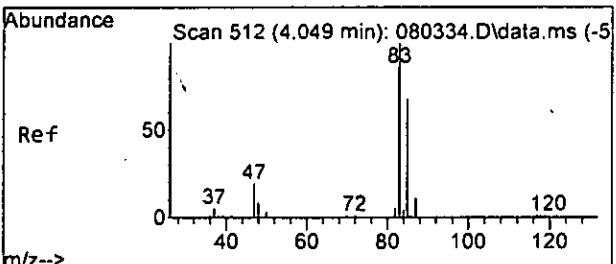
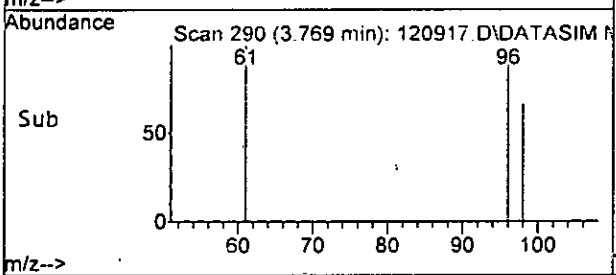
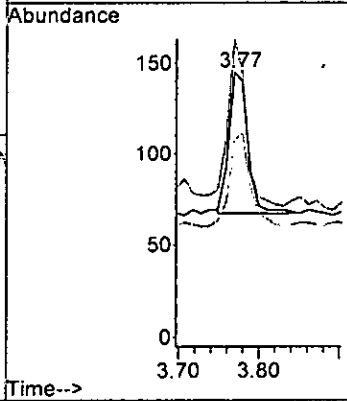
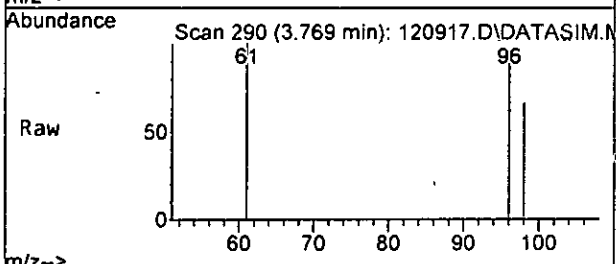
Tgt Ion: 77 Resp: 32  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 2.0 62.0#





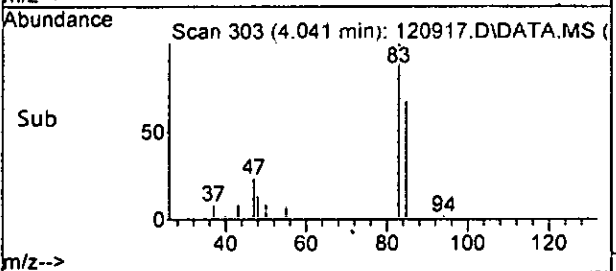
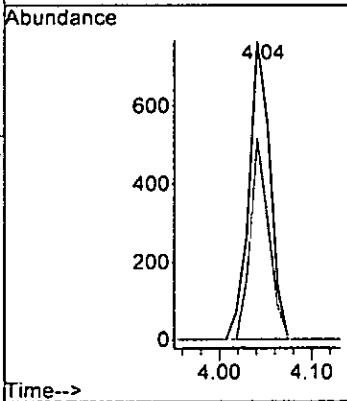
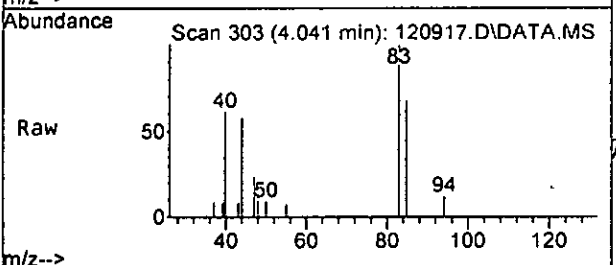
#22  
 cis-1,2-Dichloroethene  
 Concen: 0.045 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.000 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

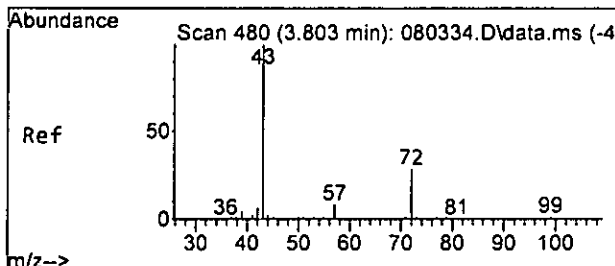
Tgt Ion: 96 Resp: 129  
 Ion Ratio Lower Upper  
 96 100  
 61 111.5 67.0 127.0  
 98 59.0 38.1 98.1



#23  
 Chloroform  
 Concen: 0.284 ppb  
 RT: 4.04 min Scan# 303  
 Delta R.T. -0.000 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

Tgt Ion: 83 Resp: 1202  
 Ion Ratio Lower Upper  
 83 100  
 85 66.9 37.9 97.9

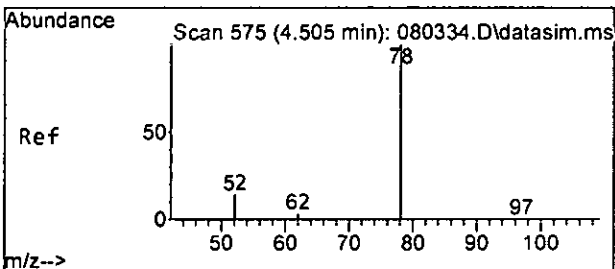
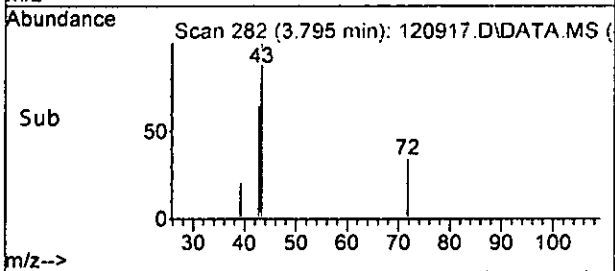
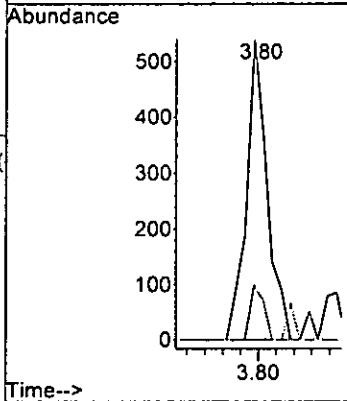
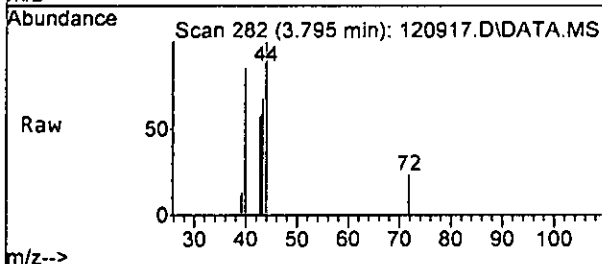




#24  
 2-Butanone (MEK)  
 Concen: 1.402 ppb  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.010 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

Tgt Ion: 43 Resp: 871

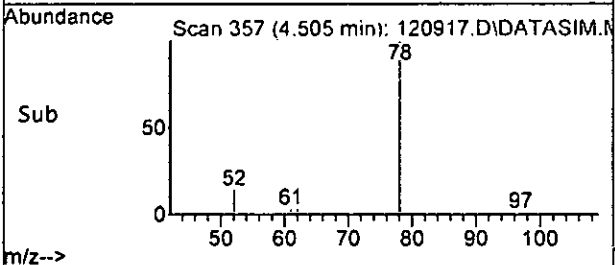
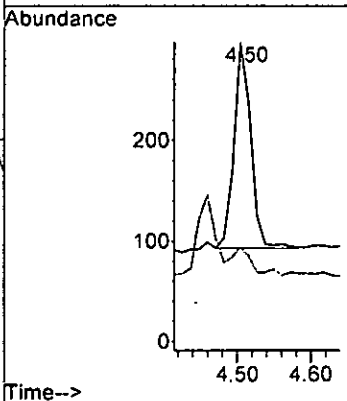
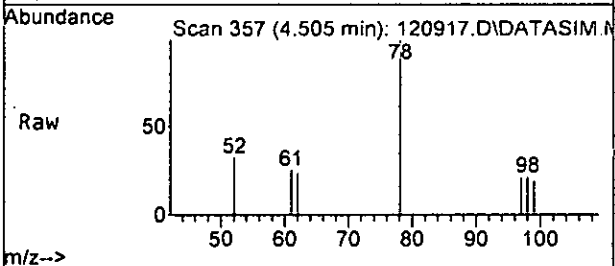
Ion	Ratio	Lower	Upper
43	100		
72	18.3	0.0	54.9
57	0.0	0.0	28.8

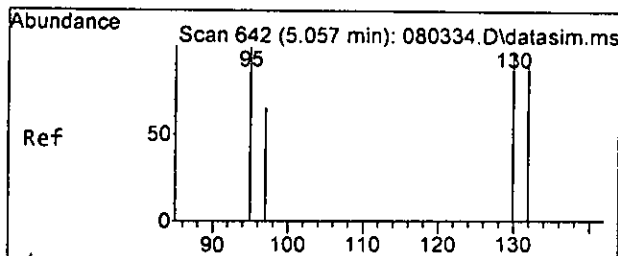


#31  
 Benzene  
 Concen: 0.028 ppb  
 RT: 4.50 min Scan# 357  
 Delta R.T. -0.000 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

Tgt Ion: 78 Resp: 320

Ion	Ratio	Lower	Upper
78	100		
52	12.8	0.0	42.0

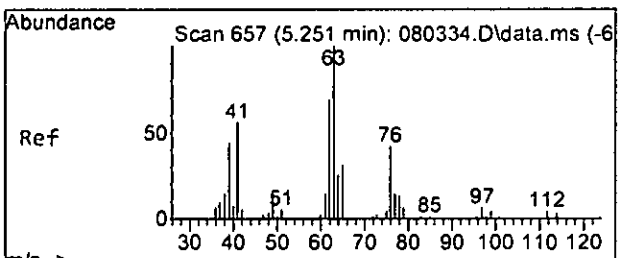
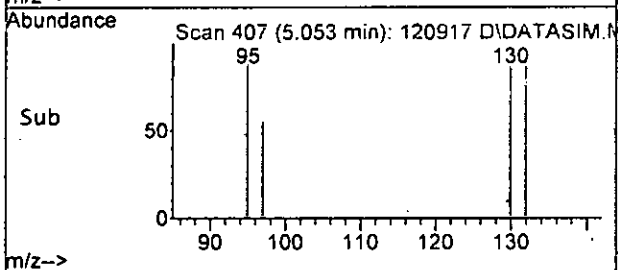
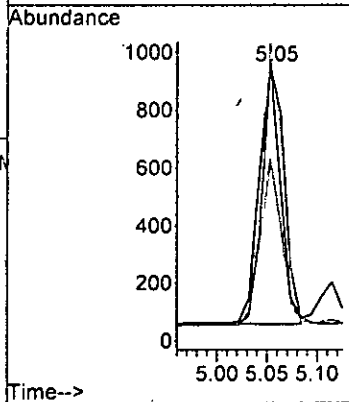
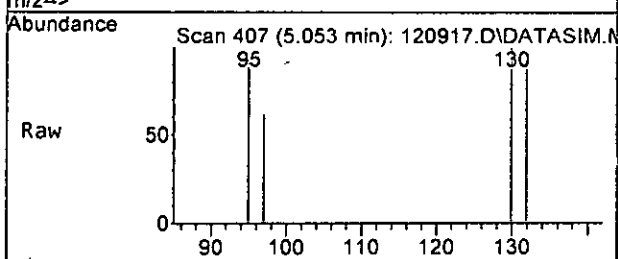




#32  
 Trichloroethene  
 Concen: 0.449 ppb m  
 RT: 5.05 min Scan# 407  
 Delta R.T. -0.000 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

Tgt Ion: 95 Resp: 1312

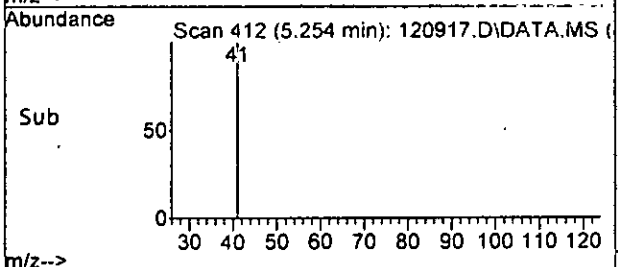
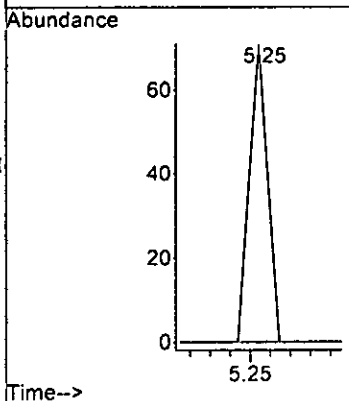
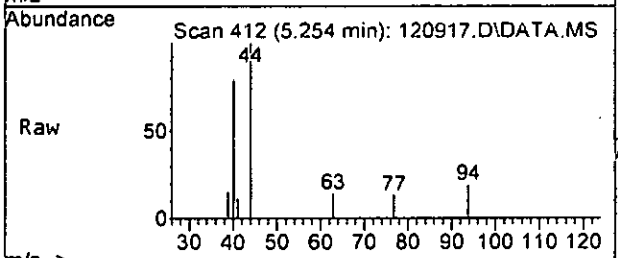
Ion	Ratio	Lower	Upper
95	100		
97	65.5	39.9	99.9
130	107.5	131.0	191.0#
132	99.0	130.1	190.1#

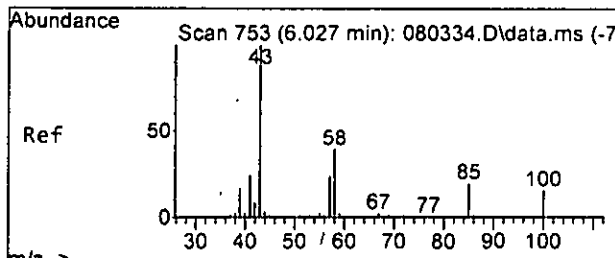


#33  
 1,2-Dichloropropane  
 Concen: Below Cal  
 RT: 5.25 min Scan# 412  
 Delta R.T. 0.010 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

Tgt Ion: 63 Resp: 44

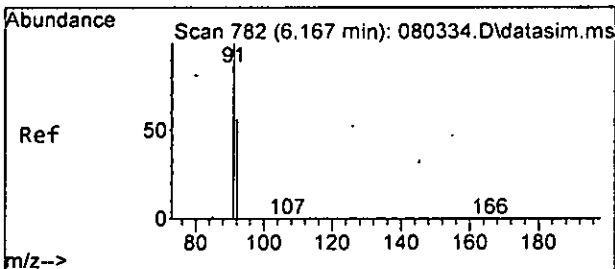
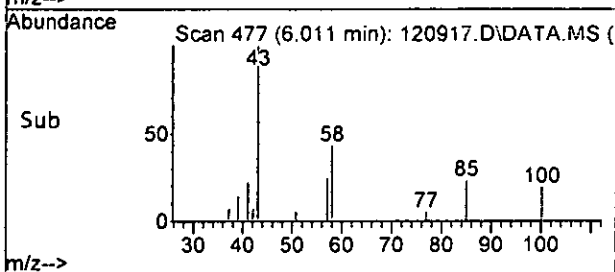
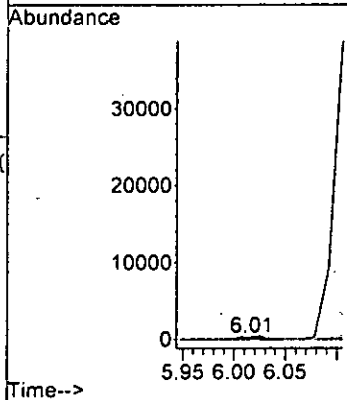
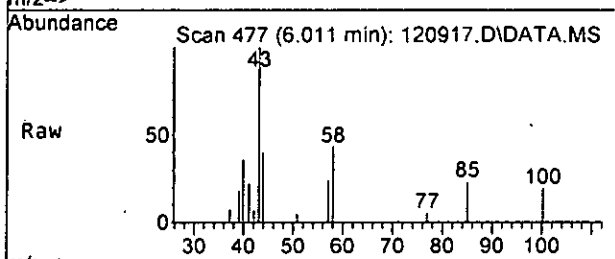
Ion	Ratio	Lower	Upper
63	100		
112	0.0	0.0	36.5





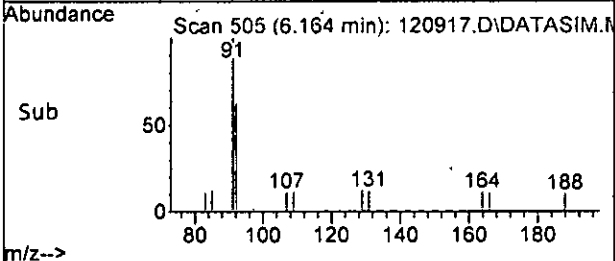
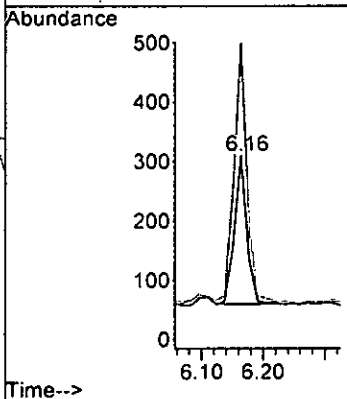
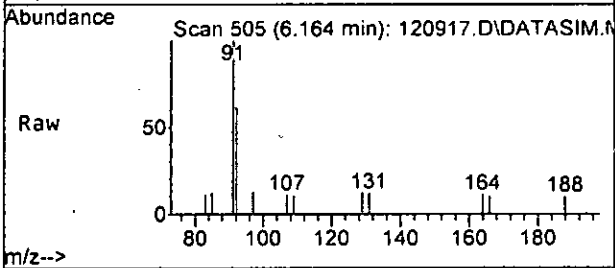
#37  
 4-Methyl-2-pentanone  
 Concen: 1.231 ppb  
 RT: 6.01 min Scan# 477  
 Delta R.T. 0.000 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

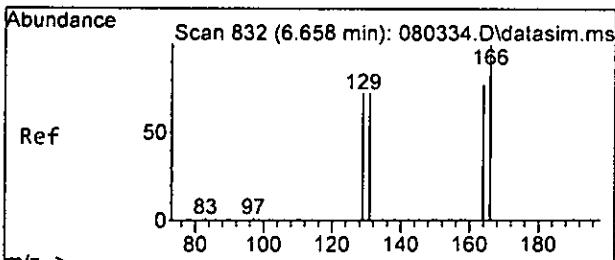
Tgt Ion: 85 Resp: 469  
 Ion Ratio Lower Upper  
 85 100  
 100 81.9 54.3 114.3  
 58 188.4 143.7 203.7



#40  
 Toluene  
 Concen: 0.067 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

Tgt Ion: 92 Resp: 353  
 Ion Ratio Lower Upper  
 92 100  
 91 174.8 137.5 197.5

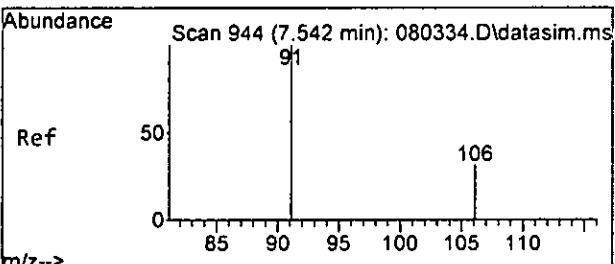
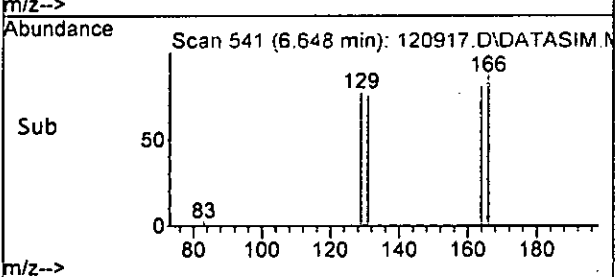
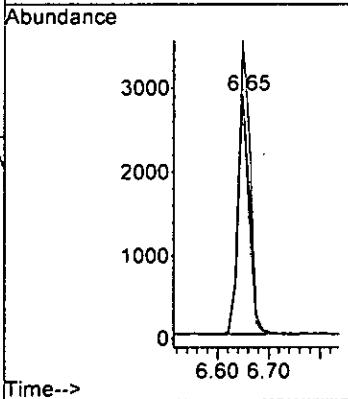
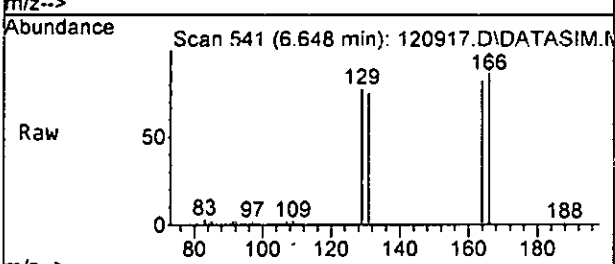




#45  
 Tetrachloroethene  
 Concen: 1.421 ppb  
 RT: 6.65 min Scan# 541  
 Delta R.T. 0.000 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

Tgt Ion: 164 Resp: 4284

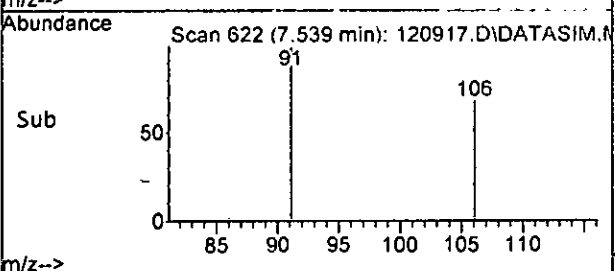
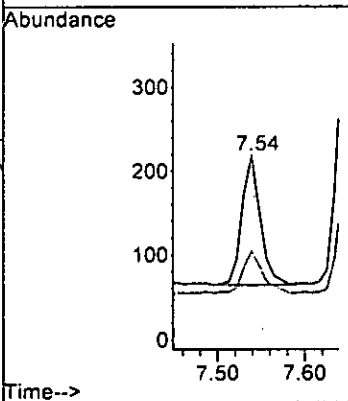
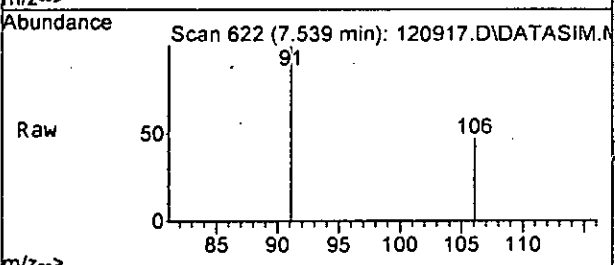
Ion	Ratio	Lower	Upper
164	100		
129	94.7	60.6	120.6
131	91.4	58.0	118.0
166	122.7	95.8	155.8

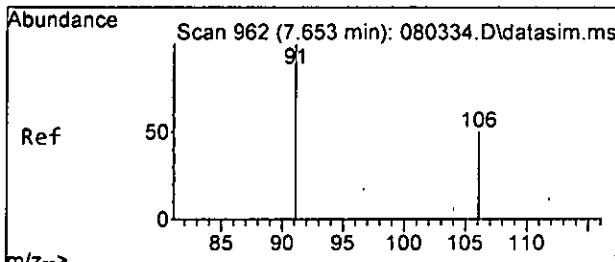


#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. 0.000 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

Tgt Ion: 91 Resp: 229

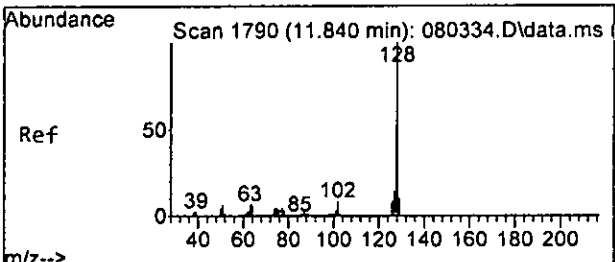
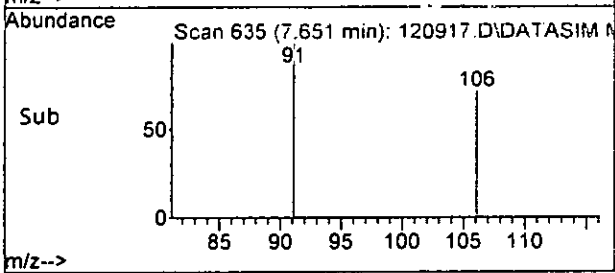
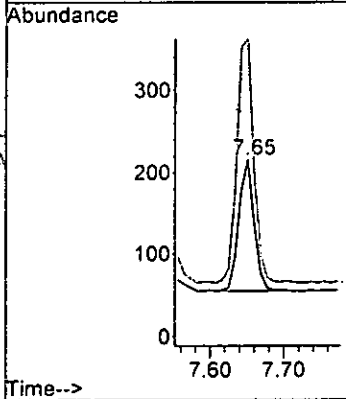
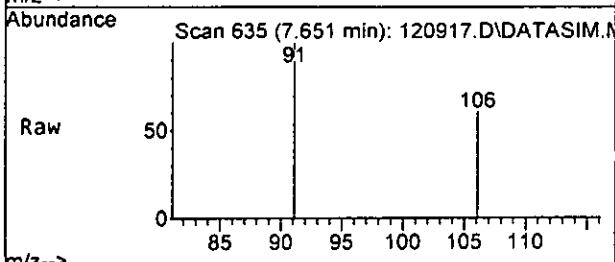
Ion	Ratio	Lower	Upper
91	100		
106	31.6	7.1	67.1





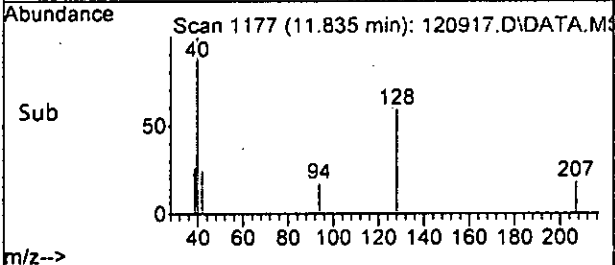
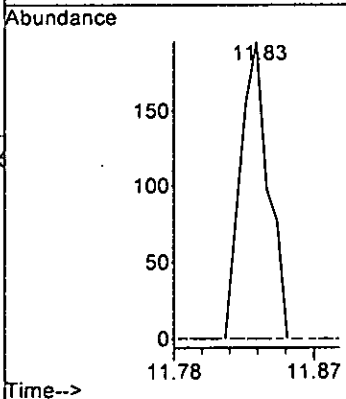
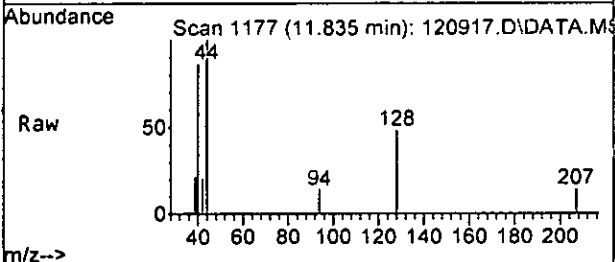
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

Tgt Ion: 106 Resp: 229  
 Ion Ratio Lower Upper  
 106 100  
 91 184.5 138.1 198.1



#75  
 Naphthalene  
 Concen: 0.036 ppb  
 RT: 11.83 min Scan# 1177  
 Delta R.T. -0.000 min  
 Lab File: 120917.D  
 Acq: 09 Dec 2022 03:07 pm

Tgt Ion: 128 Resp: 252  
 Ion Ratio Lower Upper  
 128 100  
 129 0.0 0.0 41.5  
 127 0.0 0.0 44.0



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120917.D  
 Acq On : 09 Dec 2022 03:07 pm  
 Operator : lm  
 Sample : 212083-02  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:23 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.75	96	96012	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	68798	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36325	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.18	113	26325	8.607	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	86.10%	
30) 1,2-Dichloroethane-d4	4.45	102	5161	9.003	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	90.00%	
35) Toluene-d8	6.11	98	86813	10.059	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	100.60%	
57) 4-Bromofluorobenzene	8.51	95	29426	13.368	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	133.70%	
<b>Target Compounds</b>							
2) Ethanol	2.30	45	82	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.26	50	1833	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	0.00		0	N.D. d			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.30	45	82	No Calib			
11) Acetone	2.33	58	1234	6.835	ppb	#	39
12) 1,1-Dichloroethene	0.00		0	N.D. d			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.69	84	8060	2.814	ppb		93
15) t-Butyl alcohol (TBA)	2.81	59	76	0.355	ppb	#	1
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.72	77	32	Below Cal		#	43
22] cis-1,2-Dichloroethene	3.77	96	129	0.045	ppb		87
23) Chloroform	4.04	83	1202	0.284	ppb		99
24) 2-Butanone (MEK)	3.79	43	871	1.402	ppb		84
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26) 1,2-Dichloroethane (EDC)	4.53	62	72	N.D.			
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	320	0.028	ppb		98
32] Trichloroethene	5.05	95	1312m	0.449	ppb		
33) 1,2-Dichloropropane	5.25	63	44	Below Cal		#	81
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			



Data Path : Y:\Proc\_GCM513\12-09-22\  
 Data File : 120917.D  
 Acq On : 09 Dec 2022 03:07 pm  
 Operator : lm  
 Sample : 212083-02  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCM513

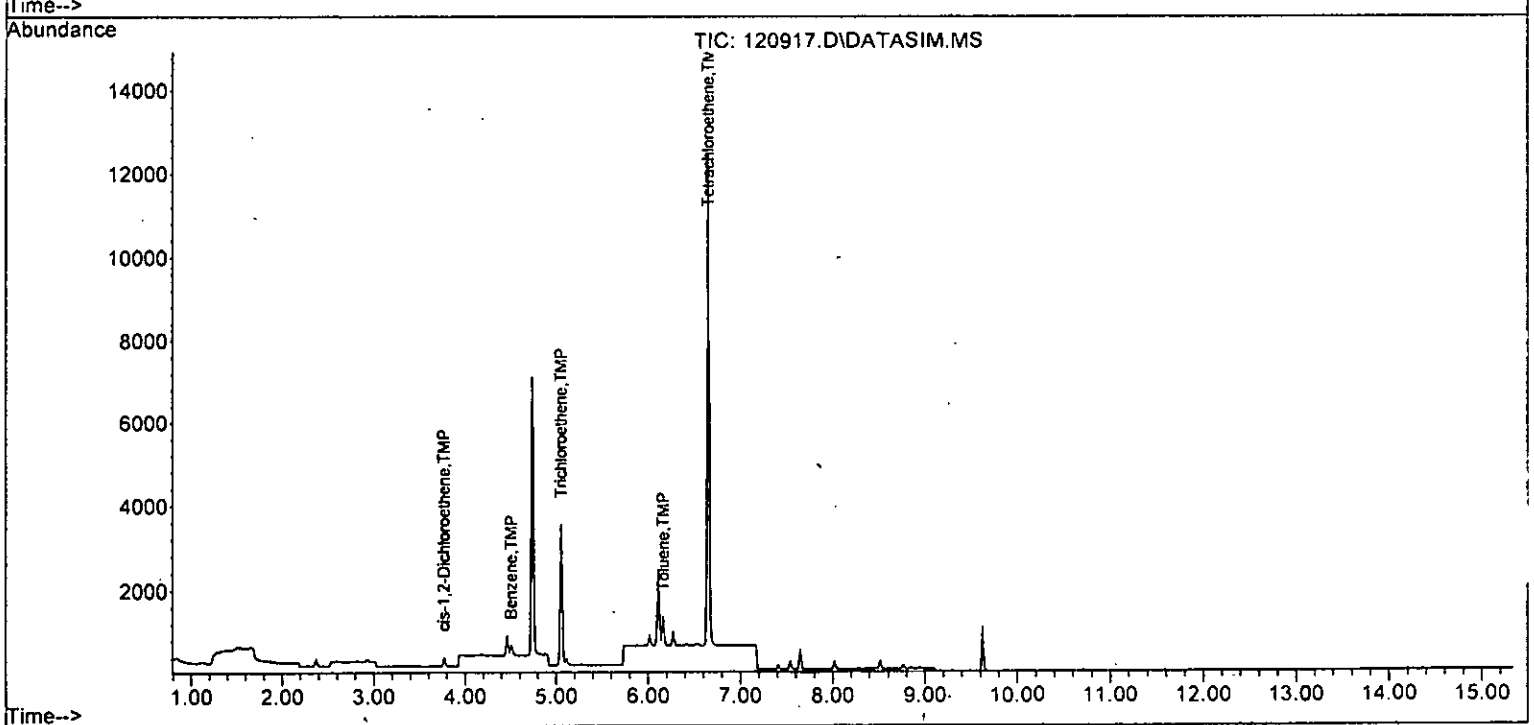
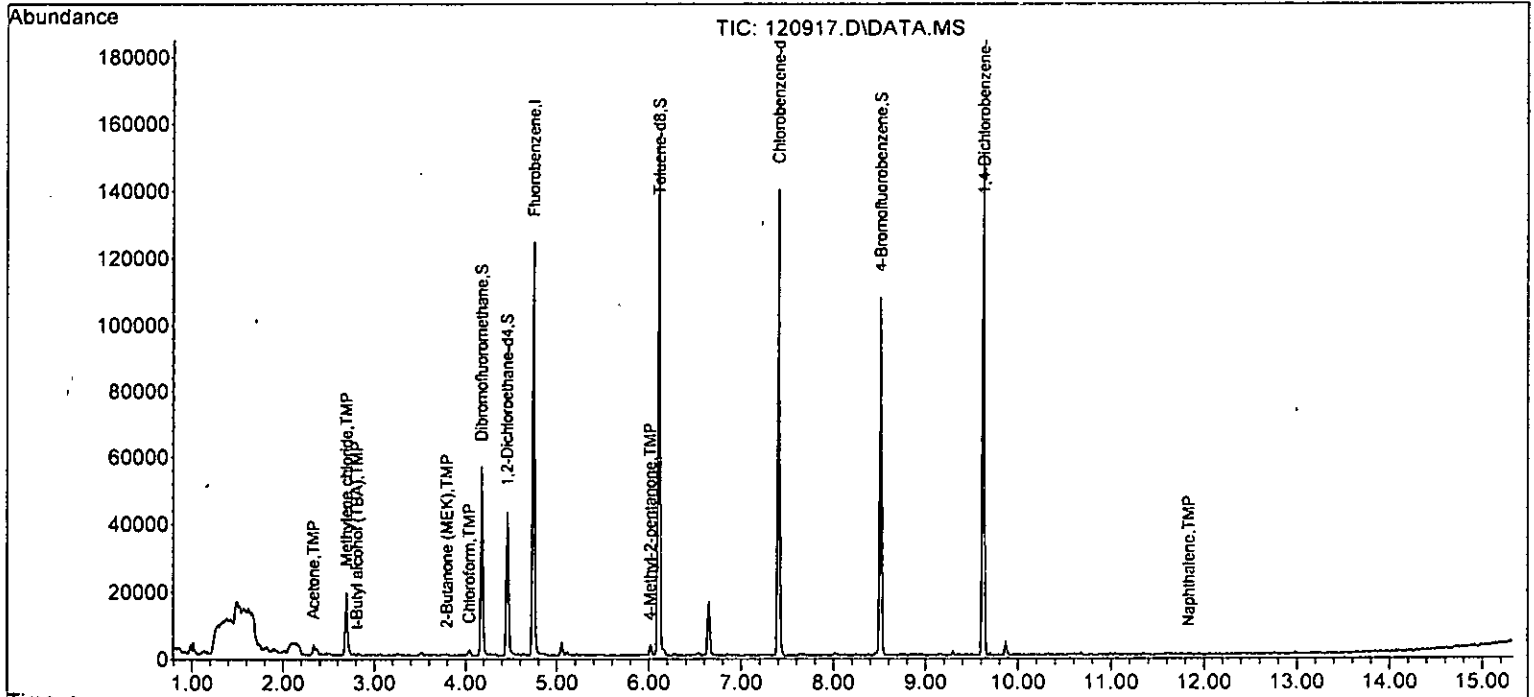
Quant Time: Dec 12 07:59:23 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	469	1.231	ppb	92
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	353	0.067	ppb	95
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.54	83	77		N.D.	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.65	164	4284	1.421	ppb	97
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	229		Below Cal	91
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.65	106	229		Below Cal	88
52) o-Xylene	8.02	106	103		N.D.	
53) Styrene	8.03	104	109		N.D.	
54) Isopropylbenzene	8.37	105	60		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.77	91	179		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.94	105	75		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	8.63	75	29		N.D.	
63) 2-Chlorotoluene	8.77	91	179		N.D.	
64) 4-Chlorotoluene	8.77	91	179		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.30	105	418		N.D.	
67) sec-Butylbenzene	9.46	105	21		N.D.	
68) p-Isopropyltoluene	9.60	119	38		N.D.	
69) 1,3-Dichlorobenzene	9.56	146	22		N.D.	
70) 1,4-Dichlorobenzene	9.56	146	22		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.83	128	252	0.036	ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120917.D  
 Acq On : 09 Dec 2022 03:07 pm  
 Operator : lm  
 Sample : 212083-02  
 Misc : water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS13

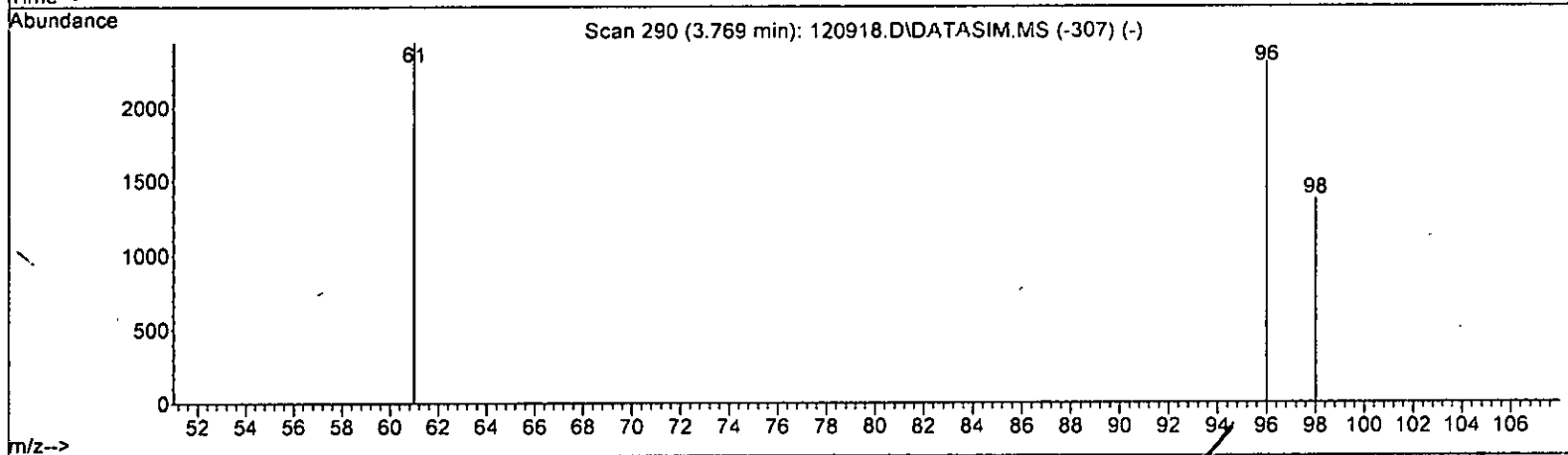
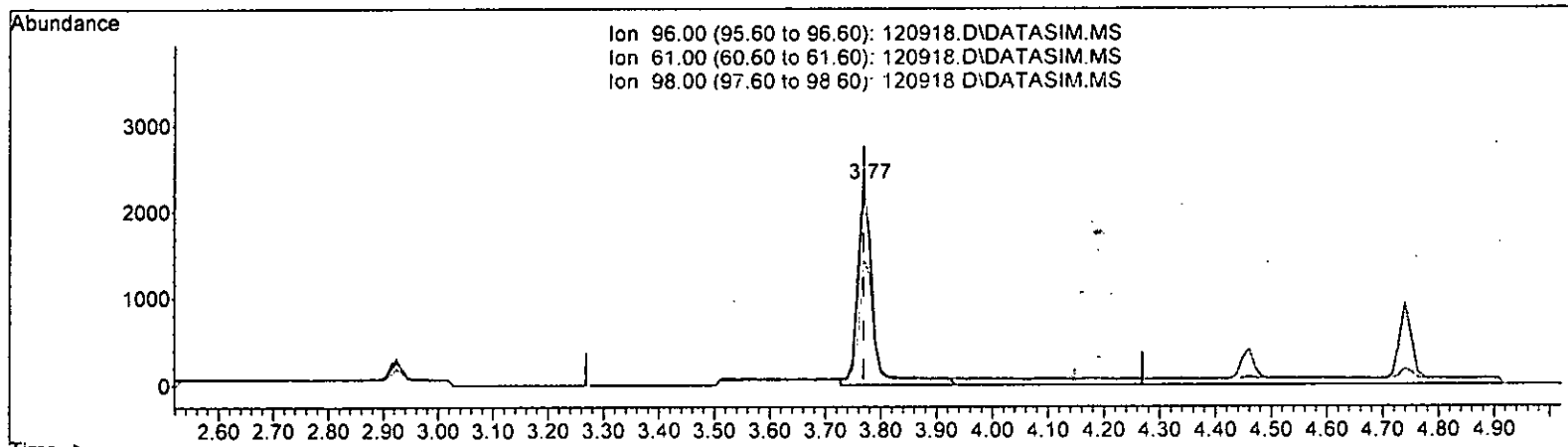
Quant Time: Dec 12 07:59:23 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120918.D  
 Acq On : 09 Dec 2022 03:30 pm  
 Operator : lm  
 Sample : 212083-03  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:27 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120918.D\DATA.MS

(22) cis-1,2-Dichloroethene (TMP)

3.769min (-0.000) 1.390 ppb

response 4304

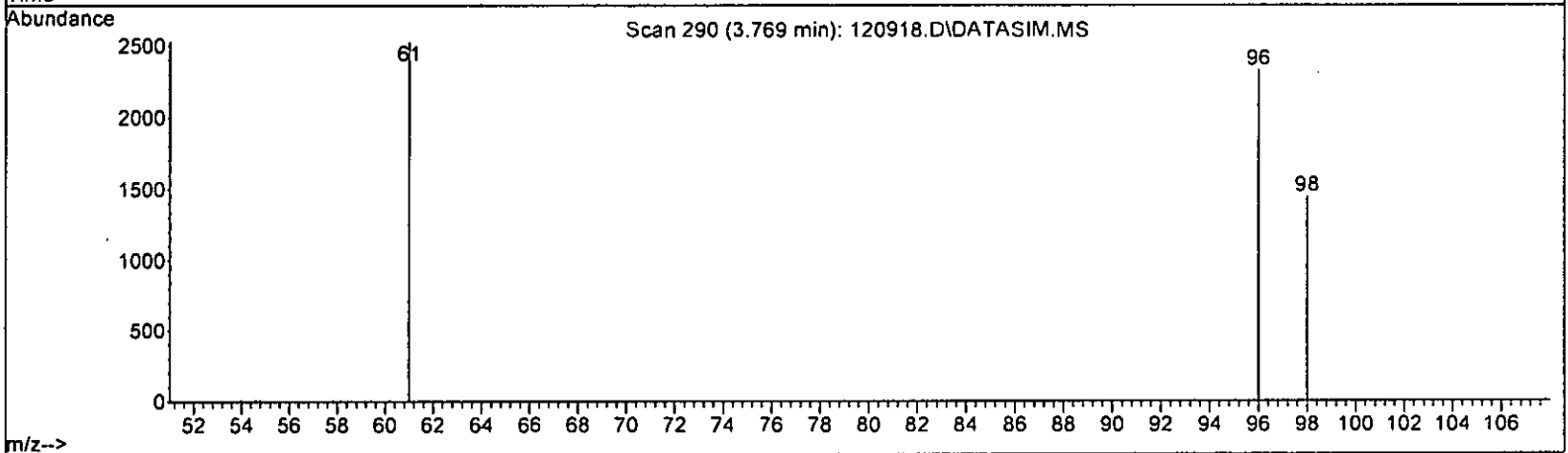
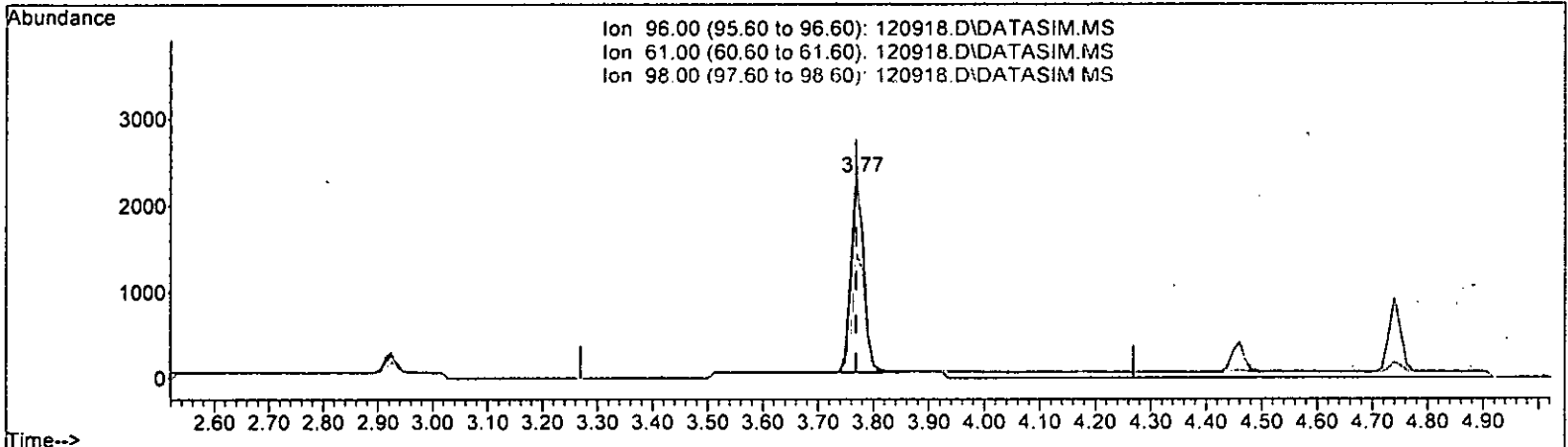
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	97.00	105.50
98.00	68.10	59.20
0.00	0.00	0.00

*m/z 12.12*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120918.D  
 Acq On : 09 Dec 2022 03:30 pm  
 Operator : lm  
 Sample : 212083-03  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:27 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120918.D\DATA.MS

(22) *cis*-1,2-Dichloroethene (TMP) *m/z 2*  
 3.769min (-0.000) 1.130 ppb m

response	3500
Ion	Exp% Act%
96.00	100.00 100.00
61.00	97.00 108.64
98.00	68.10 61.87
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120918.D  
 Acq On : 09 Dec 2022 03:30 pm  
 Operator : lm  
 Sample : 212083-03  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS13

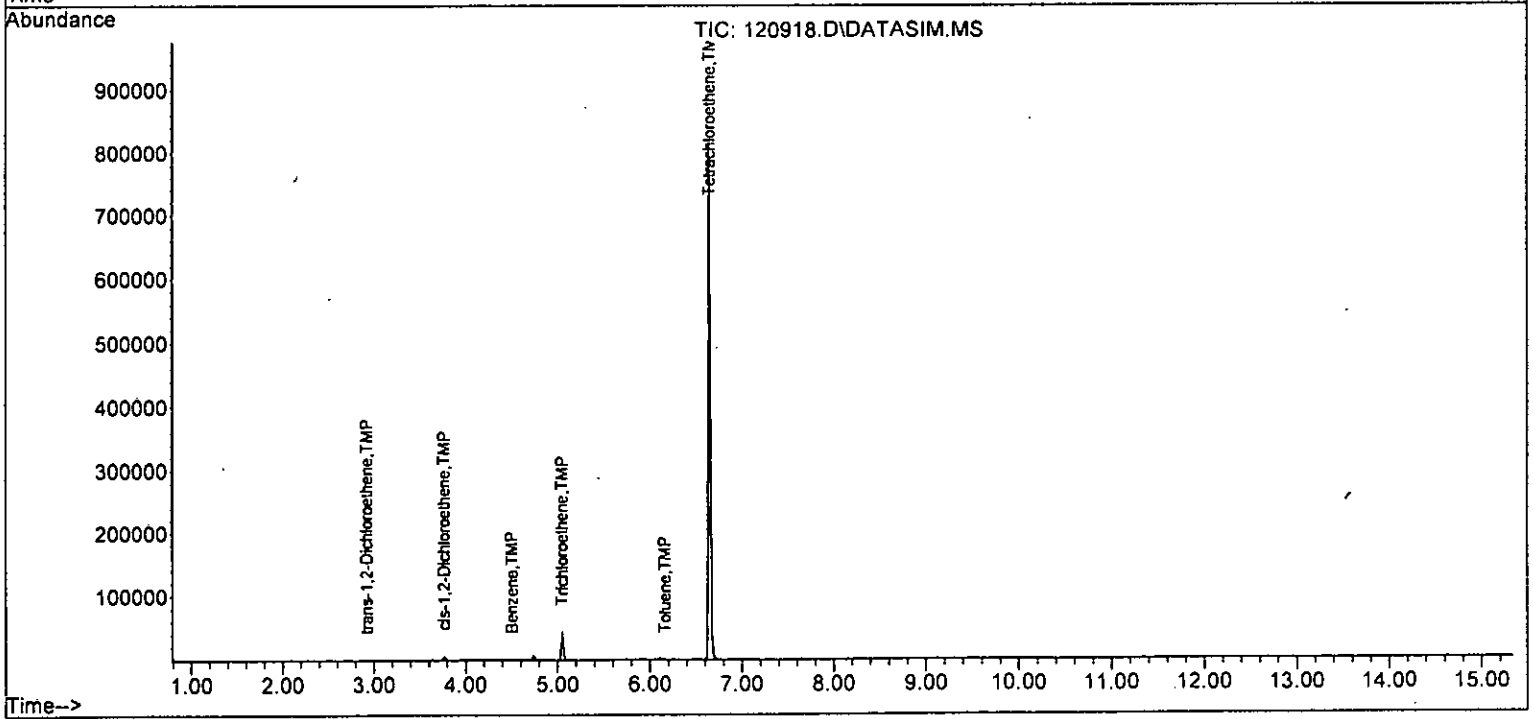
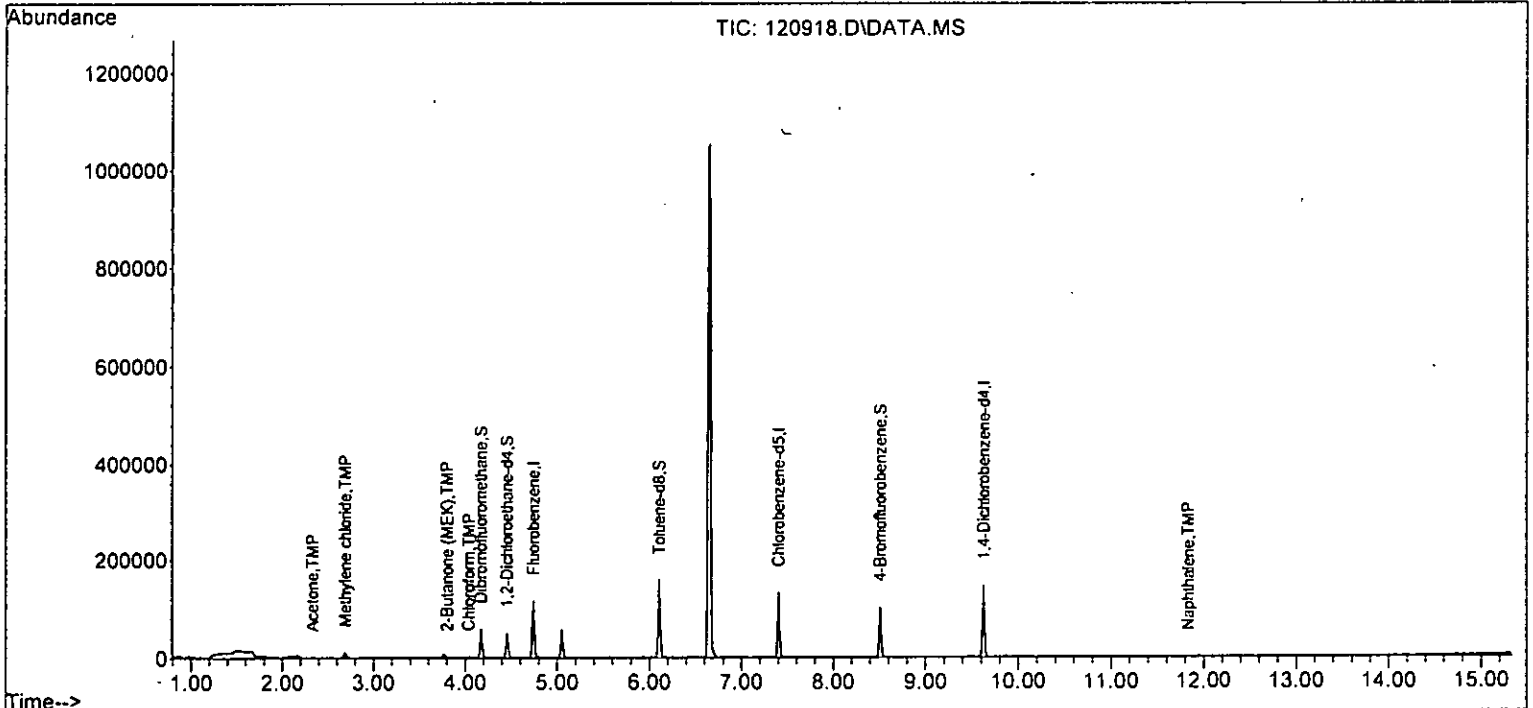
Quant Time: Dec 12 07:59:27 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

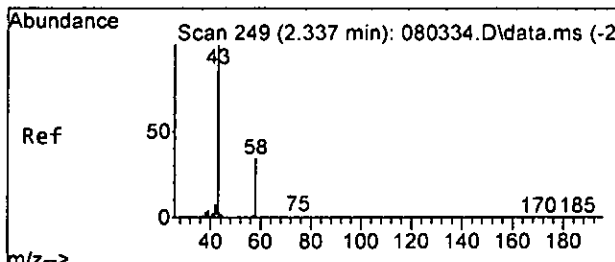
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.75	96	104546	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	67297	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	35476	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	26679	8.011	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	80.10%	
30) 1,2-Dichloroethane-d4	4.45	102	5831	9.341	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	93.40%	
35) Toluene-d8	6.11	98	89894	9.566	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	95.70%	
57) 4-Bromofluorobenzene	8.51	95	27565	12.823	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	128.20%	
Target Compounds							
							Qvalue
11) Acetone	2.33	58	385	3.345	ppb		89
14) Methylene chloride	2.69	84	5228	1.395	ppb		95
17] trans-1,2-Dichloroethene	2.92	96	311	0.108	ppb		95
21) 2,2-Dichloropropane	3.77	77	31	Below Cal	#		1
22] cis-1,2-Dichloroethene	3.77	96	3500m	1.130	ppb		
23) Chloroform	4.04	83	1159	0.251	ppb		94
24) 2-Butanone (MEK)	3.81	43	158	0.744	ppb		57
31] Benzene	4.50	78	244	0.015	ppb		98
32] Trichloroethene	5.05	95	17180	5.404	ppb	#	68
33) 1,2-Dichloropropane	5.38	63	33	Below Cal	#		81
40] Toluene	6.16	92	224	0.041	ppb		99
45] Tetrachloroethene	6.65	164	292892	104.591	ppb		98
49] Ethylbenzene	7.54	91	138	Below Cal			88
51] m,p-Xylene	7.65	106	162	Below Cal			86
52] o-Xylene	8.02	106	71	Below Cal			89
75) Naphthalene	11.83	128	171	0.025	ppb		68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
Data File : 120918.D  
Acq On : 09 Dec 2022 03:30 pm  
Operator : lm  
Sample : 212083-03  
Misc : water  
ALS Vial : 14 Sample Multiplier: 1  
InstName : GCMS13

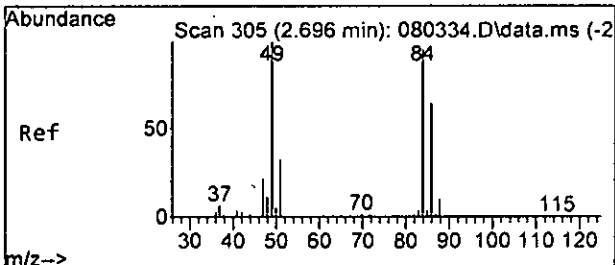
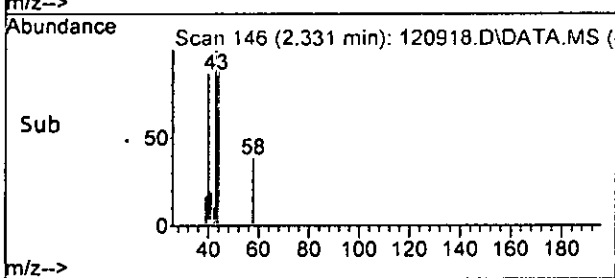
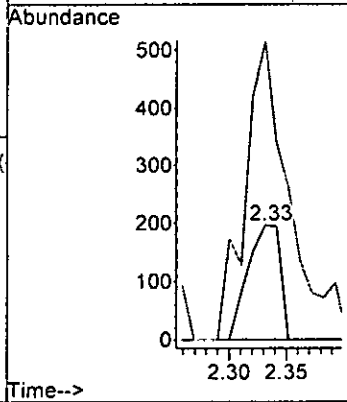
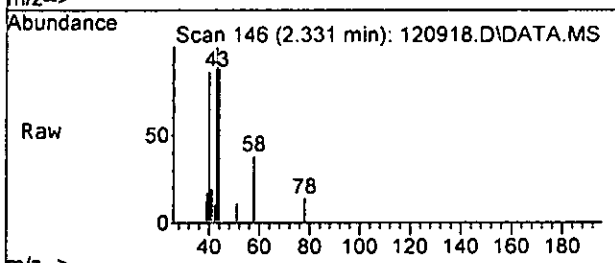
Quant Time: Dec 12 07:59:27 2022  
Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Thu Dec 01 12:09:50 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080322.M





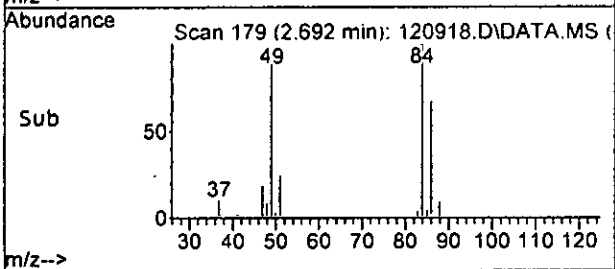
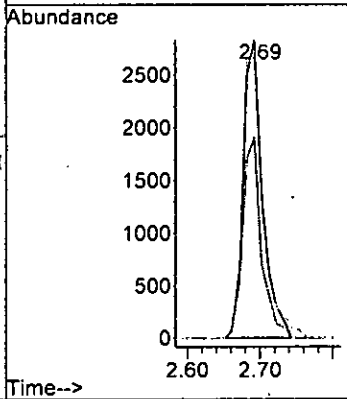
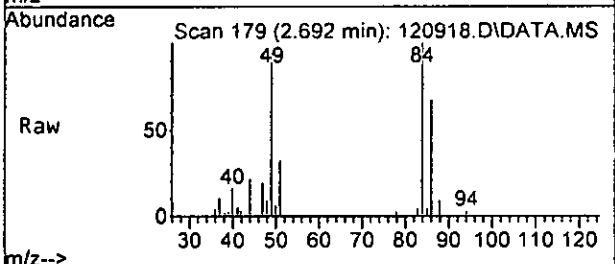
#11  
 Acetone  
 Concen: 3.345 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

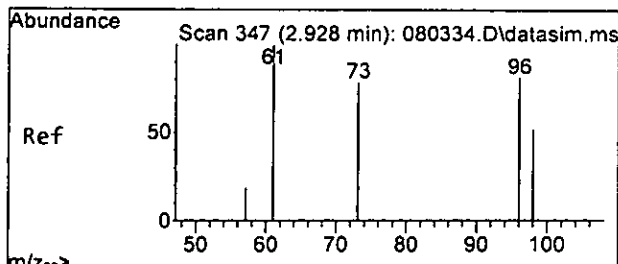
Tgt Ion: 58 Resp: 385  
 Ion Ratio Lower Upper  
 58 100  
 43 356.1 350.8 410.8



#14  
 Methylene chloride  
 Concen: 1.395 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

Tgt Ion: 84 Resp: 5228  
 Ion Ratio Lower Upper  
 84 100  
 86 67.3 41.2 101.2  
 49 93.6 69.2 129.2

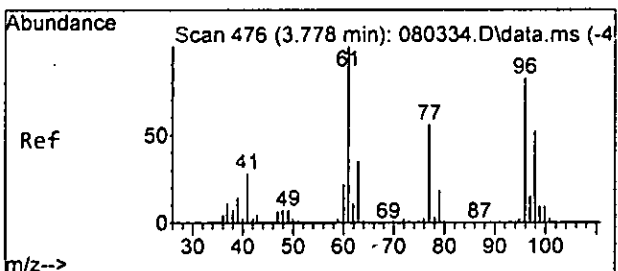
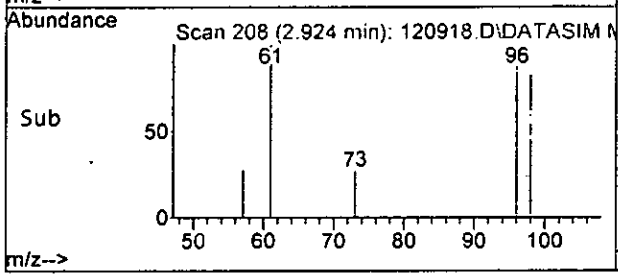
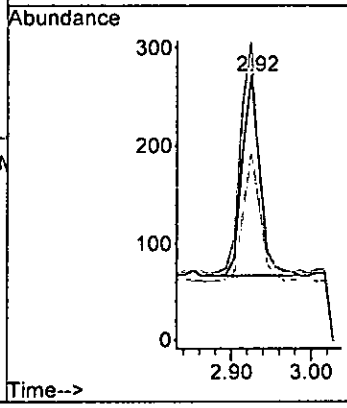
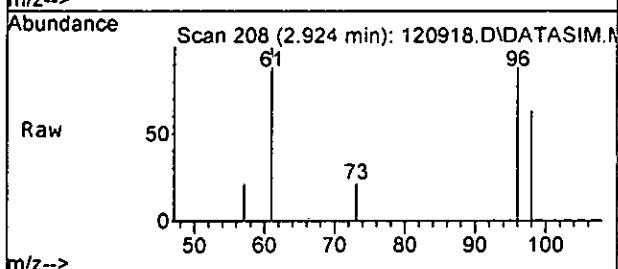




#17  
 trans-1,2-Dichloroethene  
 Concen: 0.108 ppb  
 RT: 2.92 min Scan# 208  
 Delta R.T. 0.010 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

Tgt Ion: 96 Resp: 311

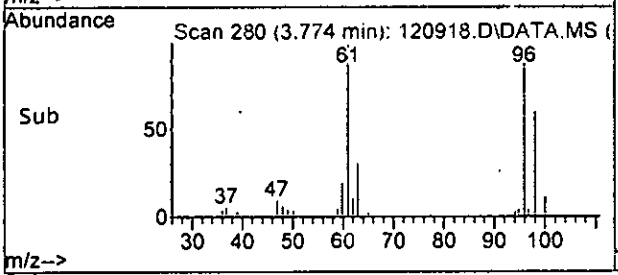
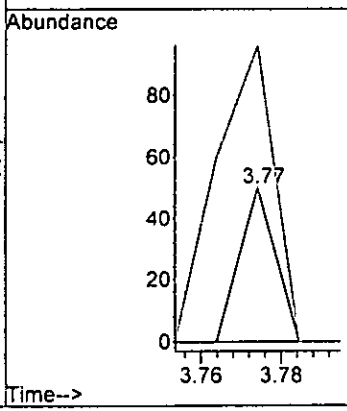
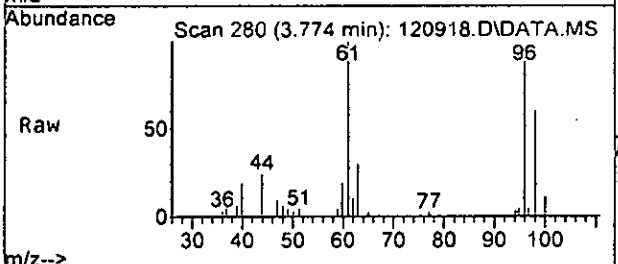
Ion	Ratio	Lower	Upper
96	100		
61	115.2	77.0	137.0
98	63.7	32.7	92.7



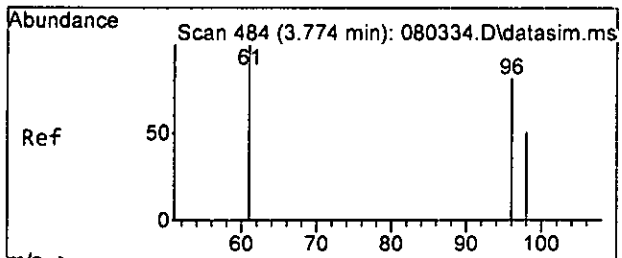
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.77 min Scan# 280  
 Delta R.T. 0.010 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

Tgt Ion: 77 Resp: 31

Ion	Ratio	Lower	Upper
77	100		
97	192.0	2.0	62.0#



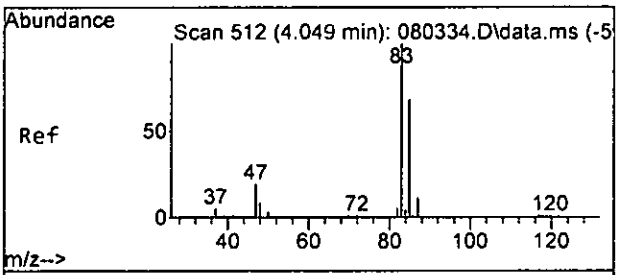
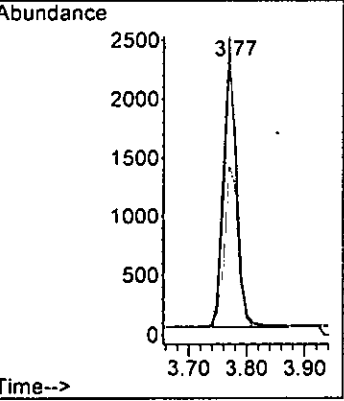
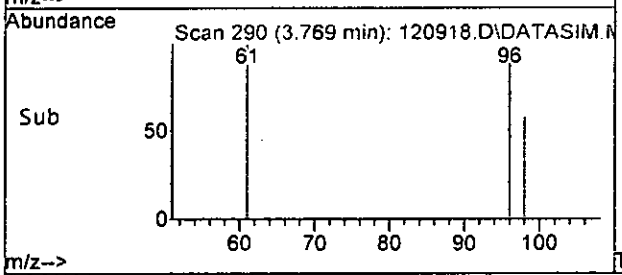
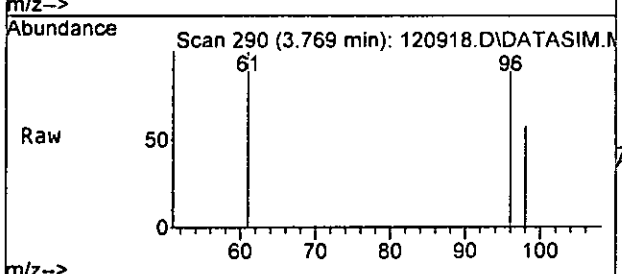




#22  
 cis-1,2-Dichloroethene  
 Concen: 1.130 ppb m  
 RT: 3.77 min Scan# 290  
 Delta R.T. -0.000 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

Tgt Ion: 96 Resp: 3500

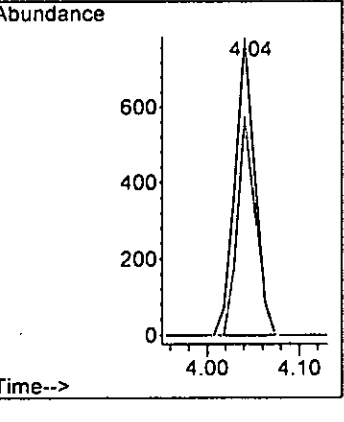
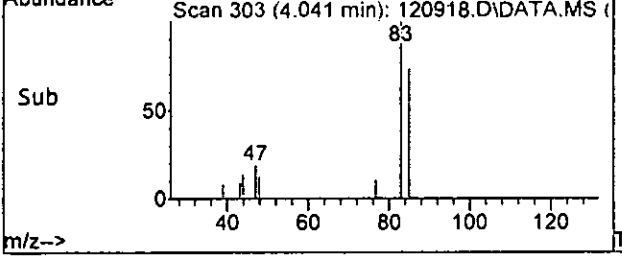
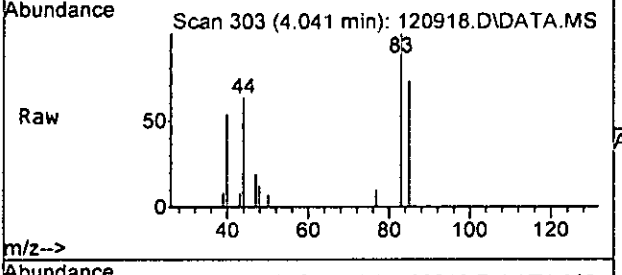
Ion	Ratio	Lower	Upper
96	100		
61	108.6	67.0	127.0
98	61.9	38.1	98.1

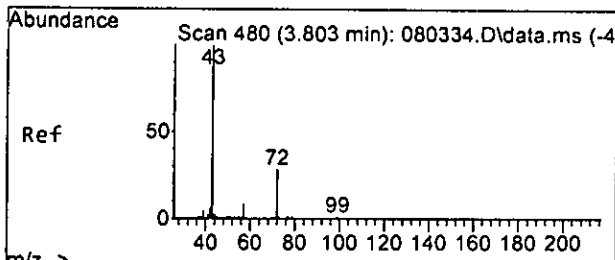


#23  
 Chloroform  
 Concen: 0.251 ppb  
 RT: 4.04 min Scan# 303  
 Delta R.T. -0.000 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

Tgt Ion: 83 Resp: 1159

Ion	Ratio	Lower	Upper
83	100		
85	72.6	37.9	97.9

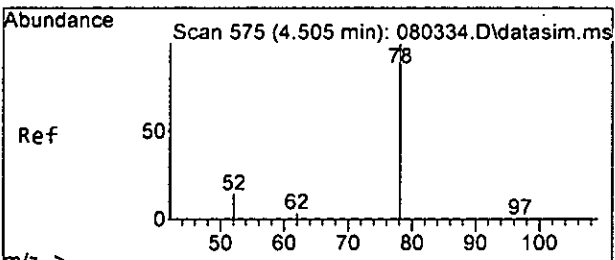
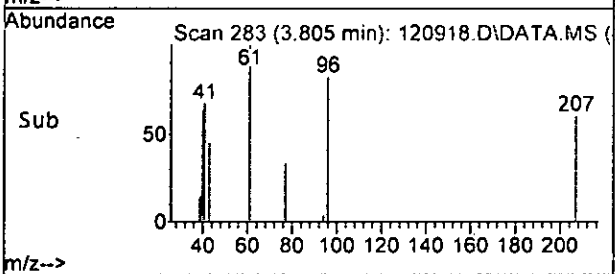
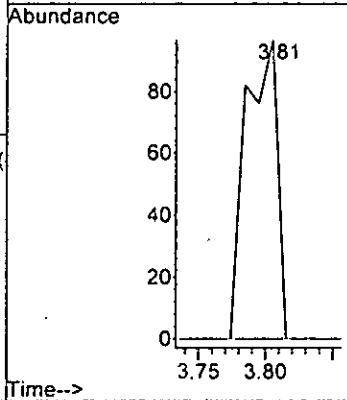
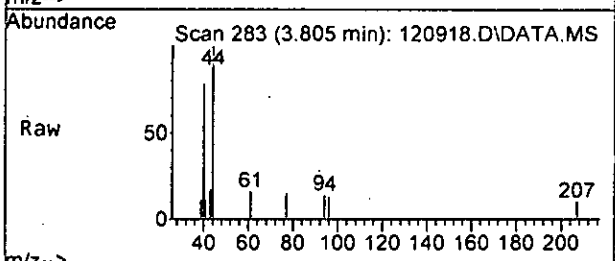




#24  
 2-Butanone (MEK)  
 Concen: 0.744 ppb  
 RT: 3.81 min Scan# 283  
 Delta R.T. 0.020 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

Tgt Ion: 43 Resp: 158

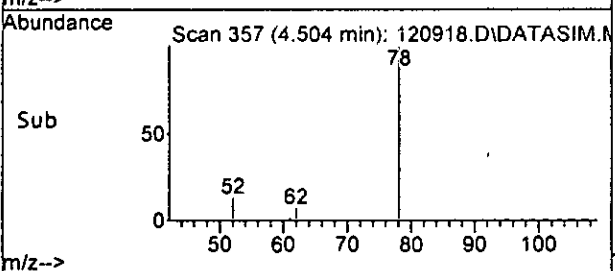
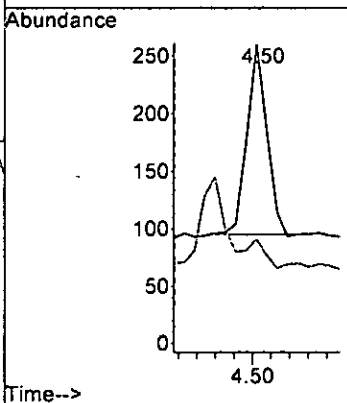
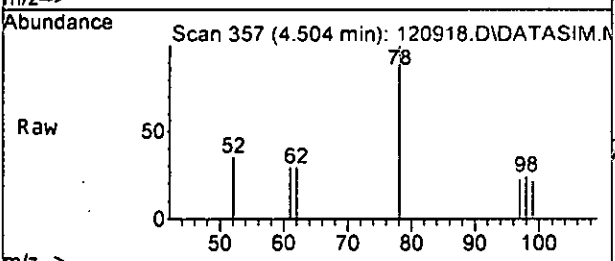
Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	54.9
57	0.0	0.0	28.8

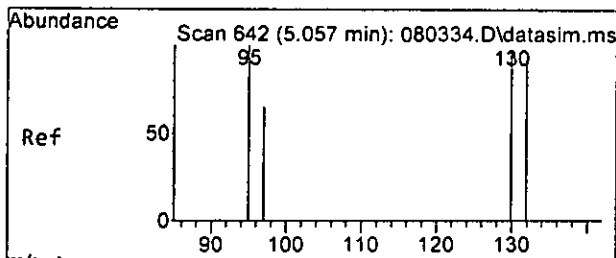


#31  
 Benzene  
 Concen: 0.015 ppb  
 RT: 4.50 min Scan# 357  
 Delta R.T. -0.001 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

Tgt Ion: 78 Resp: 244

Ion	Ratio	Lower	Upper
78	100		
52	12.7	0.0	42.0

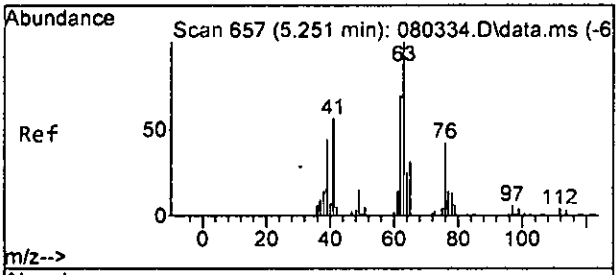
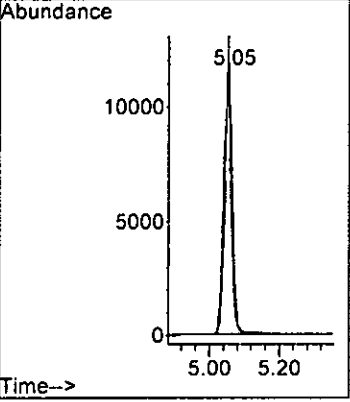
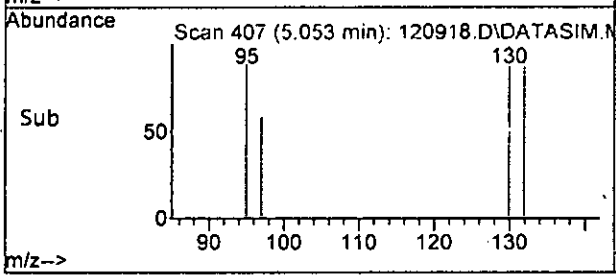
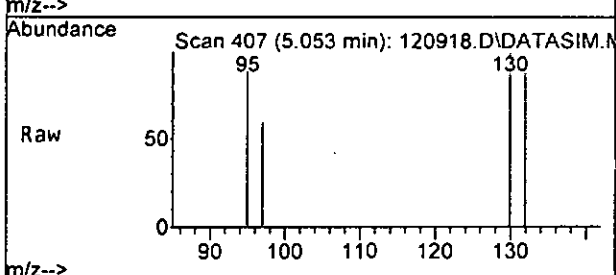




#32  
 Trichloroethene  
 Concen: 5.404 ppb  
 RT: 5.05 min Scan# 407  
 Delta R.T. -0.000 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

Tgt Ion: 95 Resp: 17180

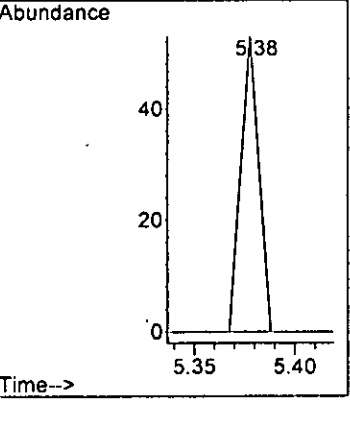
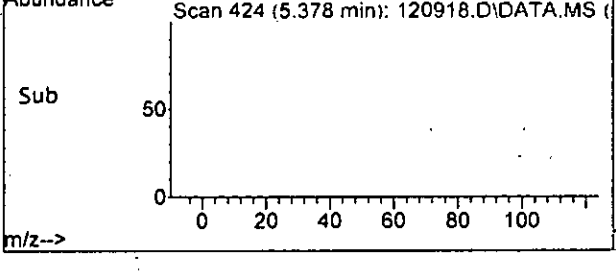
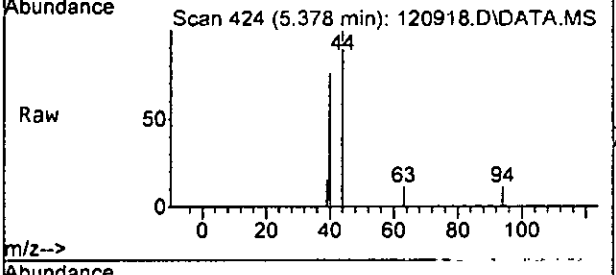
Ion	Ratio	Lower	Upper
95	100		
97	66.2	39.9	99.9
130	113.0	131.0	191.0#
132	107.6	130.1	190.1#

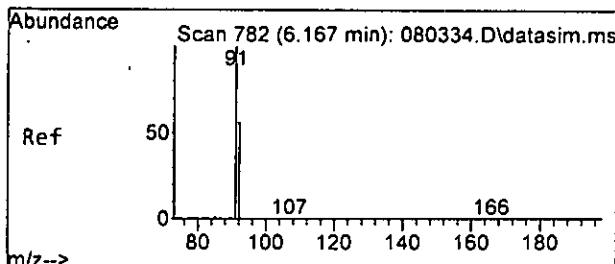


#33  
 1,2-Dichloropropane  
 Concen: Below Cal  
 RT: 5.38 min Scan# 424  
 Delta R.T. 0.134 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

Tgt Ion: 63 Resp: 33

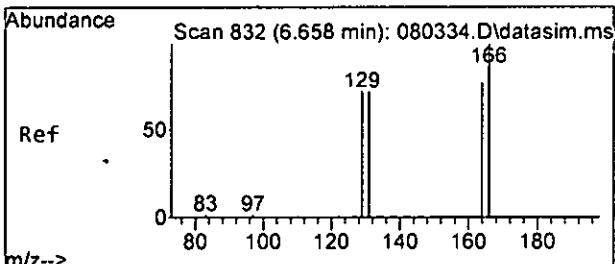
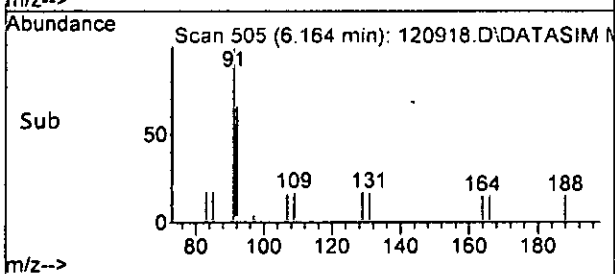
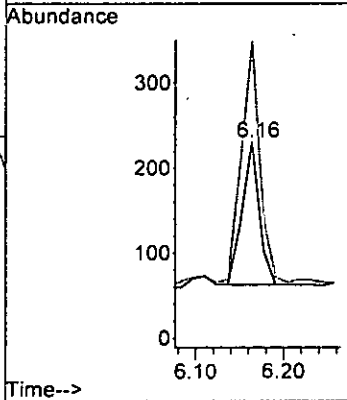
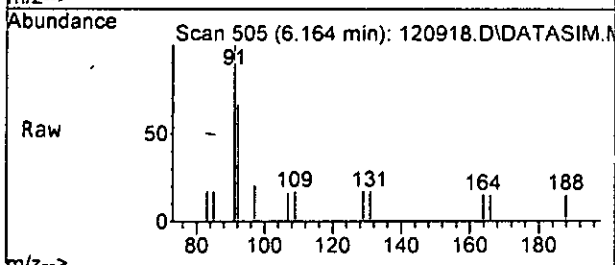
Ion	Ratio	Lower	Upper
63	100		
112	0.0	0.0	36.5





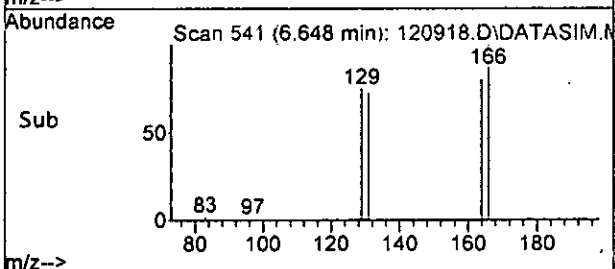
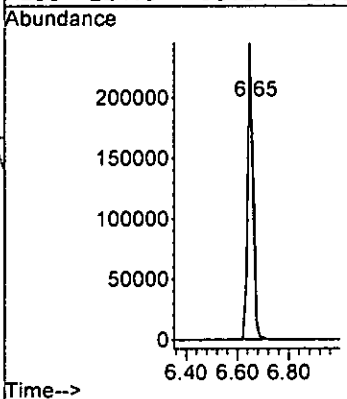
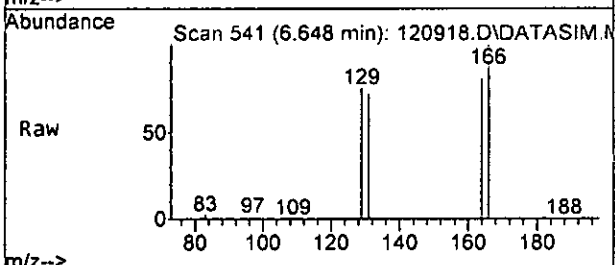
#40  
 Toluene  
 Concen: 0.041 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

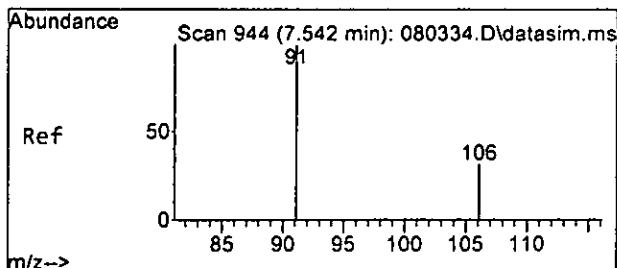
Tgt Ion: 92 Resp: 224  
 Ion Ratio Lower Upper  
 92 100  
 91 169.0 137.5 197.5



#45  
 Tetrachloroethene  
 Concen: 104.591 ppb  
 RT: 6.65 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

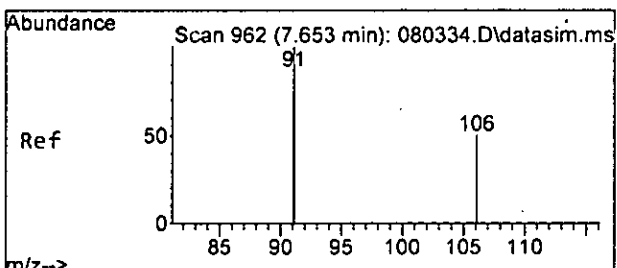
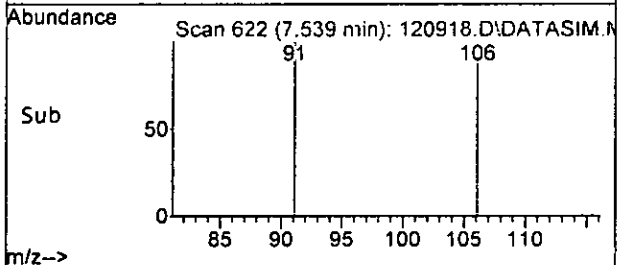
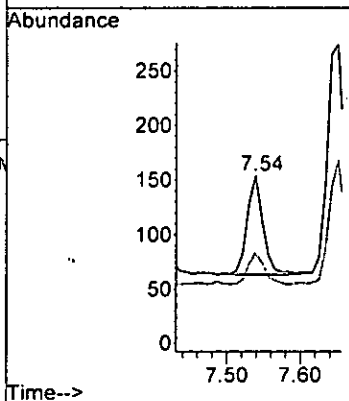
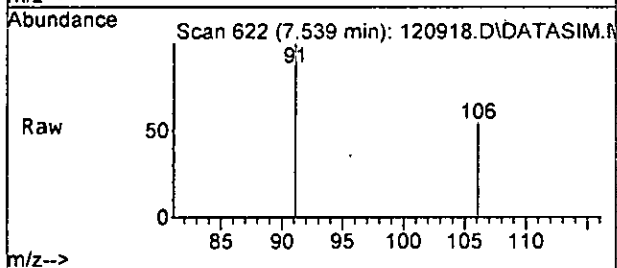
Tgt Ion: 164 Resp: 292892  
 Ion Ratio Lower Upper  
 164 100  
 129 93.9 60.6 120.6  
 131 89.5 58.0 118.0  
 166 124.9 95.8 155.8





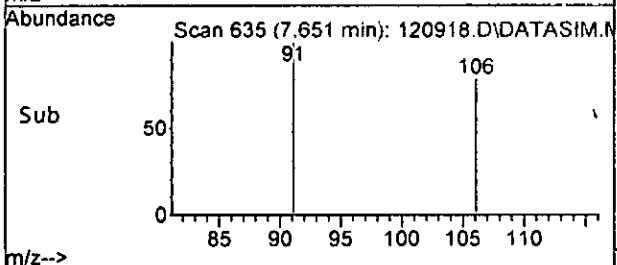
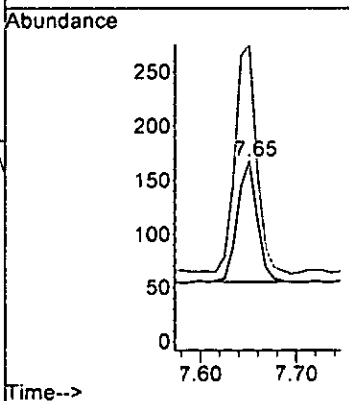
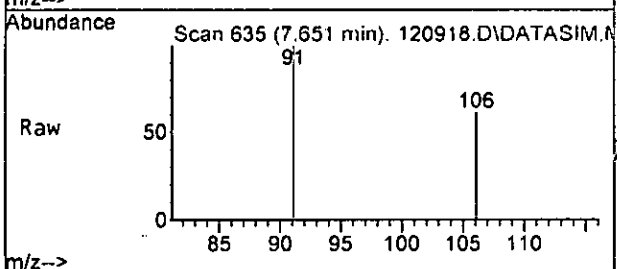
#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. -0.000 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

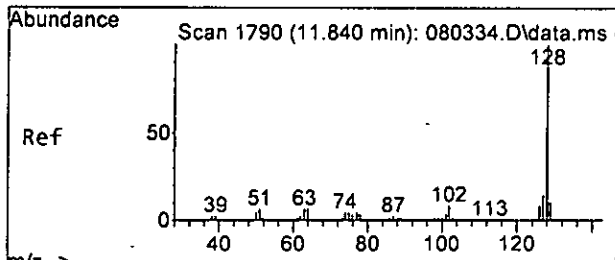
Tgt Ion: 91 Resp: 138  
 Ion Ratio Lower Upper  
 91 100  
 106 29.7 7.1 67.1



#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

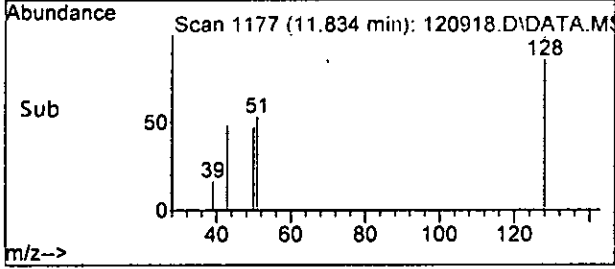
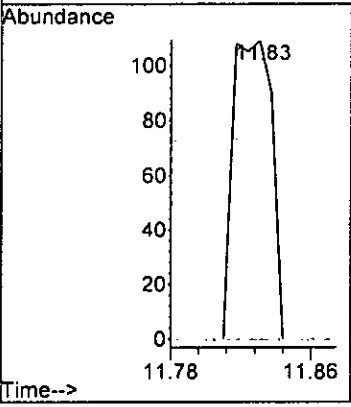
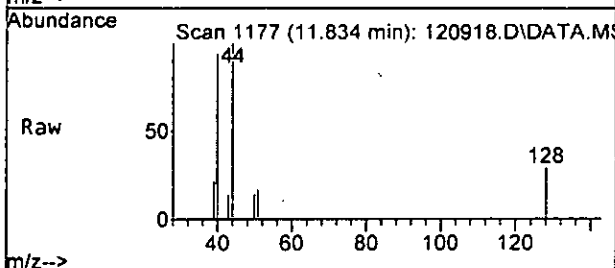
Tgt Ion: 106 Resp: 162  
 Ion Ratio Lower Upper  
 106 100  
 91 186.7 138.1 198.1





#75  
 Naphthalene  
 Concen: 0.025 ppb  
 RT: 11.83 min Scan# 1177  
 Delta R.T. -0.000 min  
 Lab File: 120918.D  
 Acq: 09 Dec 2022 03:30 pm

Tgt Ion: 128 Resp: 171  
 Ion Ratio Lower Upper  
 128 100  
 129 0.0 0.0 41.5  
 127 0.0 0.0 44.0



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120918.D  
 Acq On : 09 Dec 2022 03:30 pm  
 Operator : lm  
 Sample : 212083-03  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:27 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	104546	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	67297	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	35476	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	26679	8.011	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	80.10%
30) 1,2-Dichloroethane-d4	4.45	102	5831	9.341	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	93.40%
35) Toluene-d8	6.11	98	89894	9.566	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	95.70%
57) 4-Bromofluorobenzene	8.51	95	27565	12.823	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	128.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.25	50	424	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	1.85	101	43	N.D.		
10) 2-Propanol	0.00		0	N.D.		
11) Acetone	2.33	58	385	3.345	ppb	89
12) 1,1-Dichloroethene	0.00		0	N.D.		
13) Hexane	0.00		0	N.D.		
14) Methylene chloride	2.69	84	5228	1.395	ppb	95
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17] trans-1,2-Dichloroethene	2.92	96	311	0.108	ppb	95
18) Diisopropyl ether (DIPE)	3.35	45	32	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.77	77	31	Below Cal	#	1
22] cis-1,2-Dichloroethene	3.77	96	3500m	1.130	ppb	
23) Chloroform	4.04	83	1159	0.251	ppb	94
24) 2-Butanone (MEK)	3.81	43	158	0.744	ppb	57
25) t-Amyl methyl ether (T...)	0.00		0	N.D.		
26) 1,2-Dichloroethane (EDC)	4.53	62	77	N.D.		
27) 1,1,1-Trichloroethane	0.00		0	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31] Benzene	4.50	78	244	0.015	ppb	98
32] Trichloroethene	5.05	95	17180	5.404	ppb	# 68
33) 1,2-Dichloropropane	5.38	63	33	Below Cal	#	81
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120918.D  
 Acq On : 09 Dec 2022 03:30 pm  
 Operator : lm  
 Sample : 212083-03  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:27 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

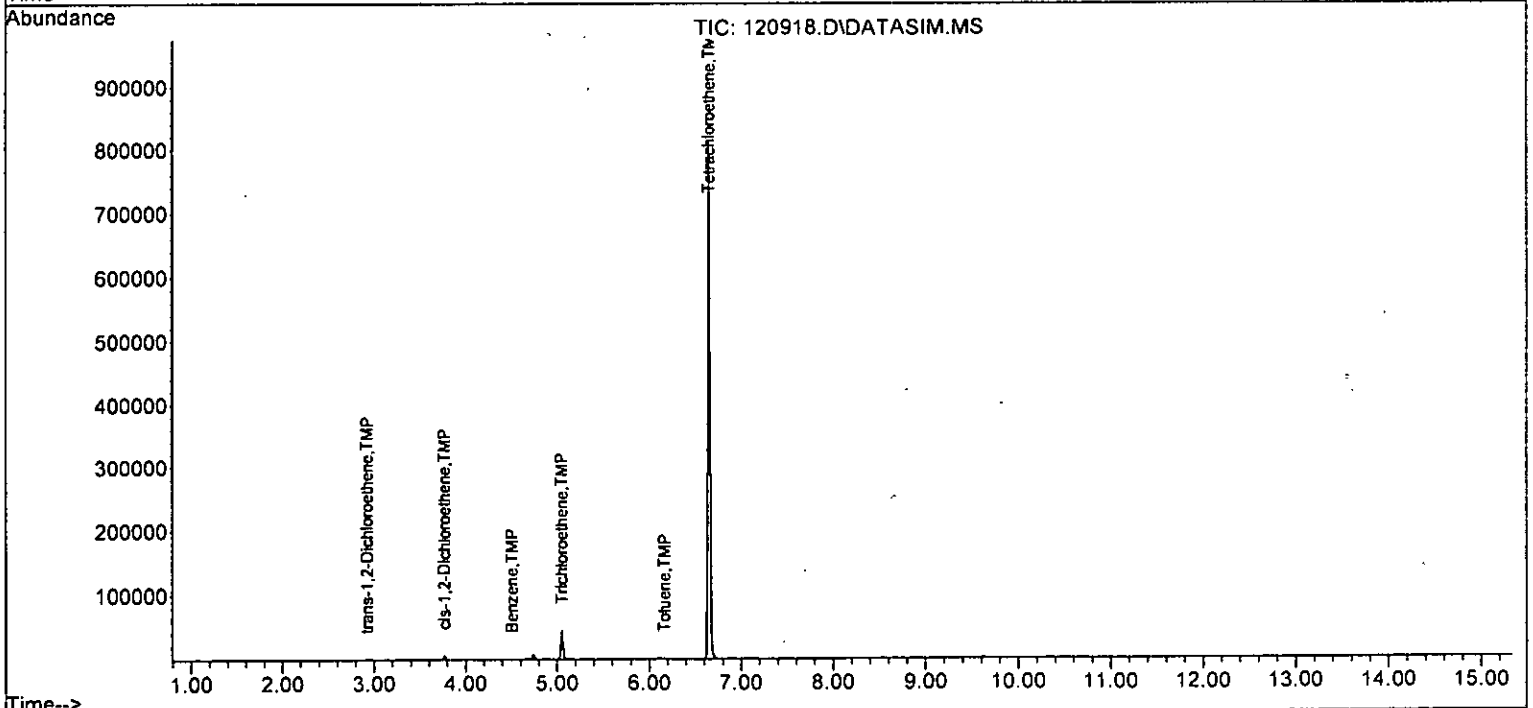
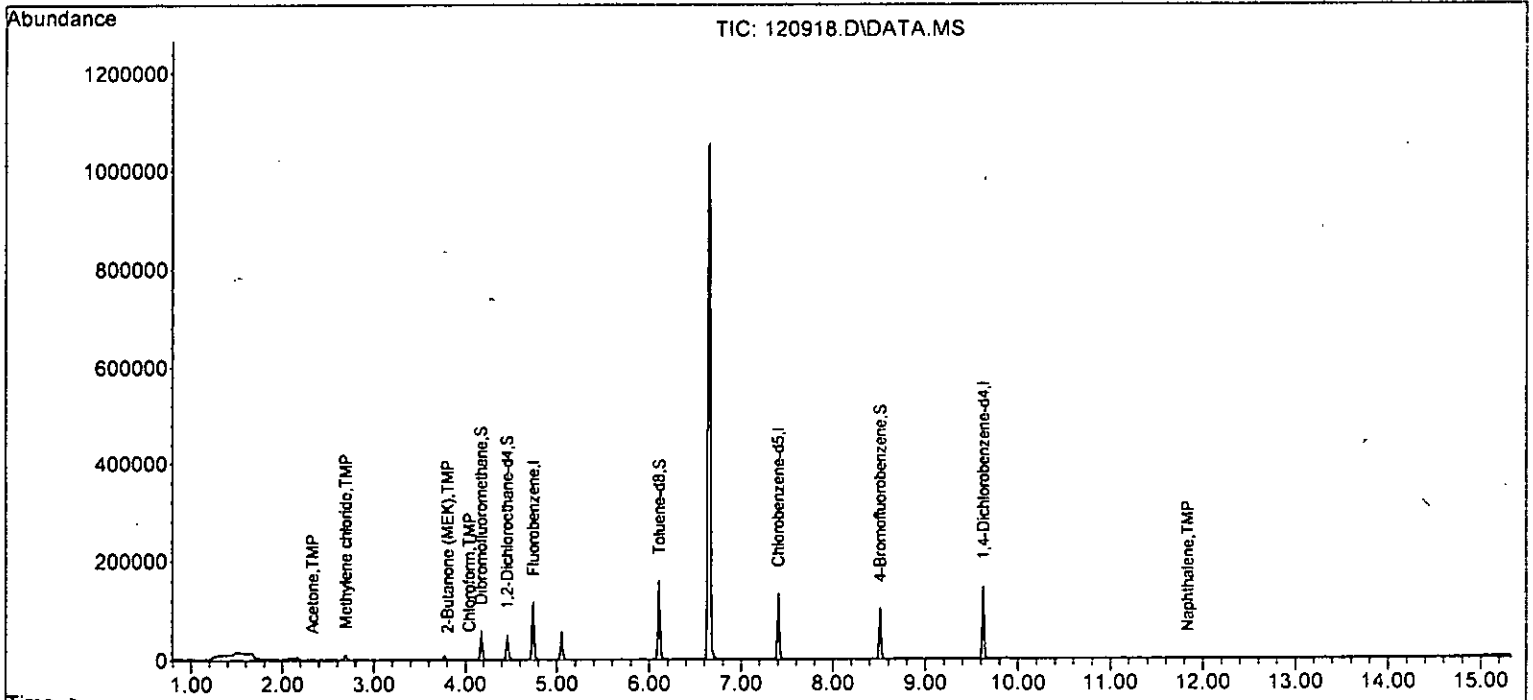
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	224	0.041	ppb	99
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.53	83	40		N.D.	
43) 2-Hexanone	6.72	43	59		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.65	164	292892	104.591	ppb	98
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	138	Below Cal		88
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.65	106	162	Below Cal		86
52] o-Xylene	8.02	106	71	Below Cal		89
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.77	91	104		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	8.67	75	38		N.D.	
63) 2-Chlorotoluene	8.77	91	104		N.D.	
64) 4-Chlorotoluene	8.77	91	104		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.29	105	141		N.D.	
67) sec-Butylbenzene	9.29	105	141		N.D.	
68) p-Isopropyltoluene	0.00		0		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.83	128	171	0.025	ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120918.D  
 Acq On : 09 Dec 2022 . 03:30 pm  
 Operator : lm  
 Sample : 212083-03  
 Misc : water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS13

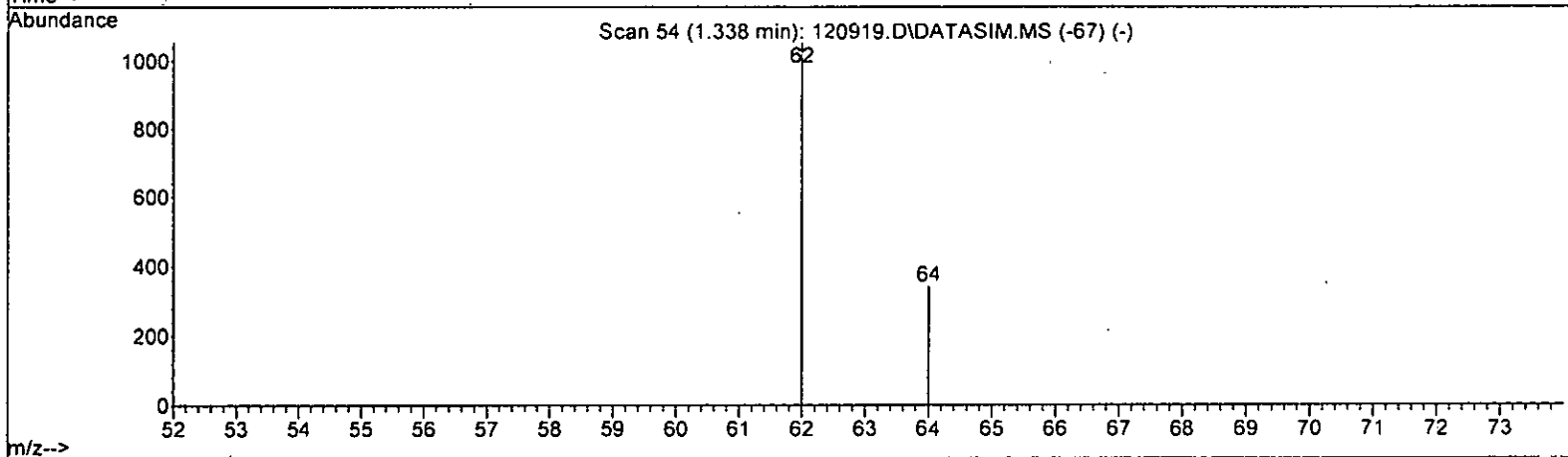
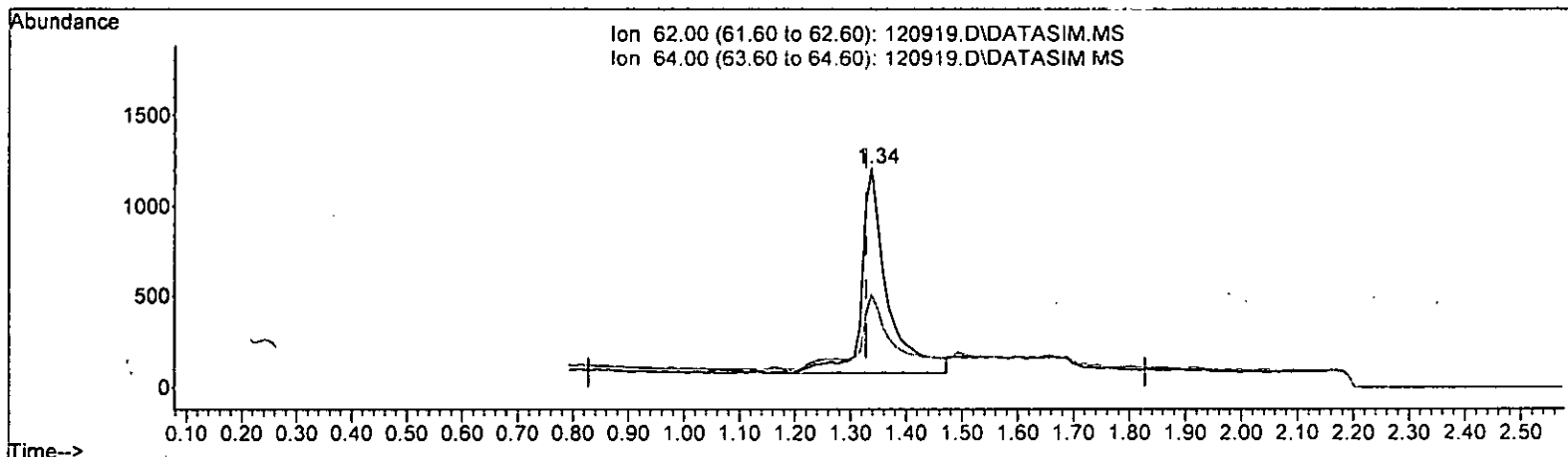
Quant Time: Dec 12 07:59:27 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120919.D  
 Acq On : 09 Dec 2022 03:54 pm  
 Operator : lm  
 Sample : 212083-04 1/10  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:31 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120919.D\DATA.MS

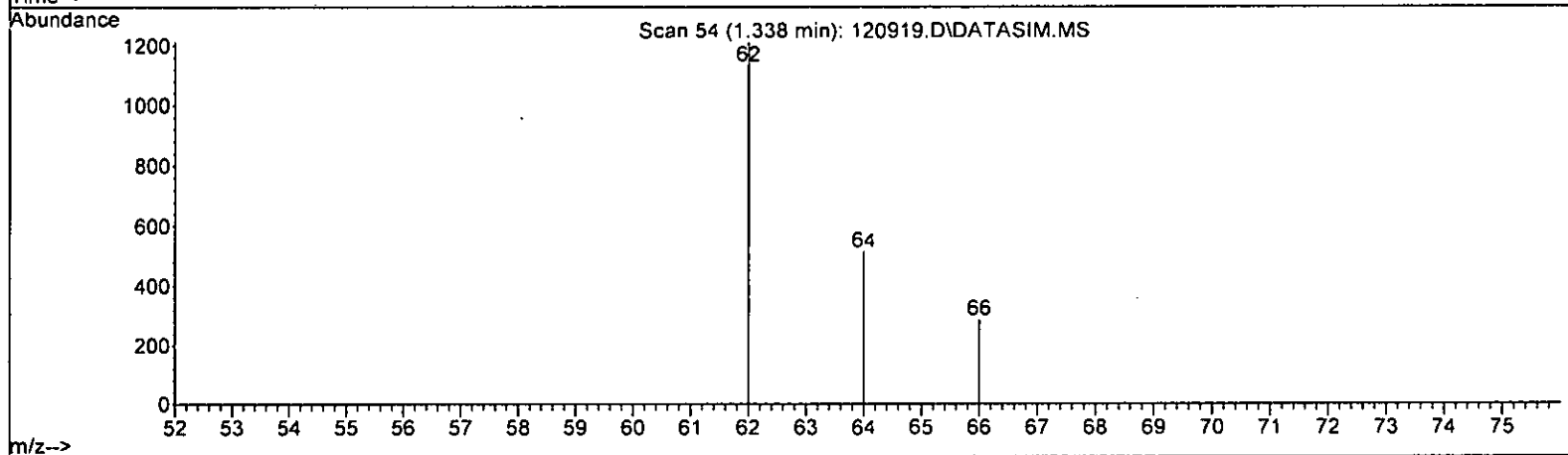
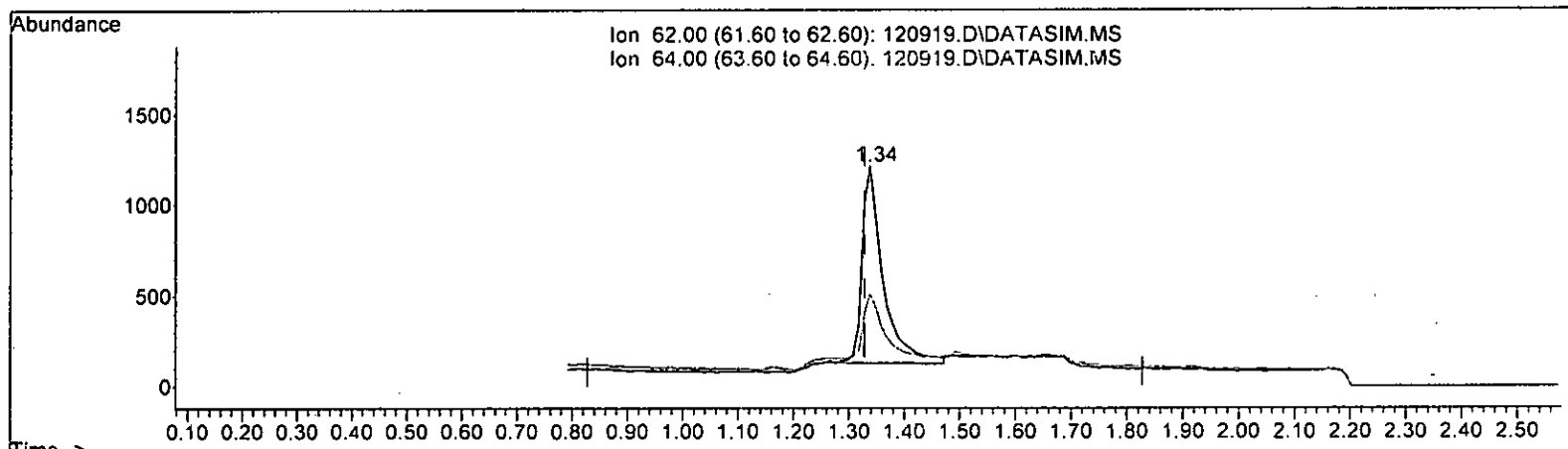
(6) Vinyl chloride (TMP)  
 1.338min (+ 0.010) 1.073 ppb  
 response 3613

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	36.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120919.D  
 Acq On : 09 Dec 2022 03:54 pm  
 Operator : lm  
 Sample : 212083-04 1/10  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:31 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120919.D\DATA.MS

(6) Vinyl chloride (TMP)

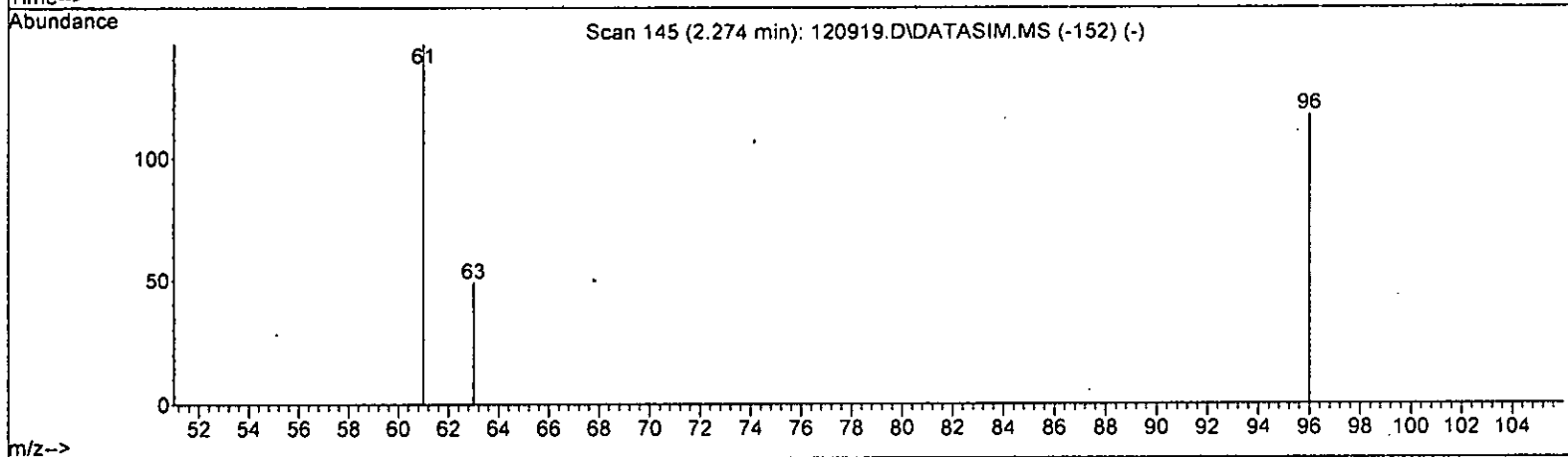
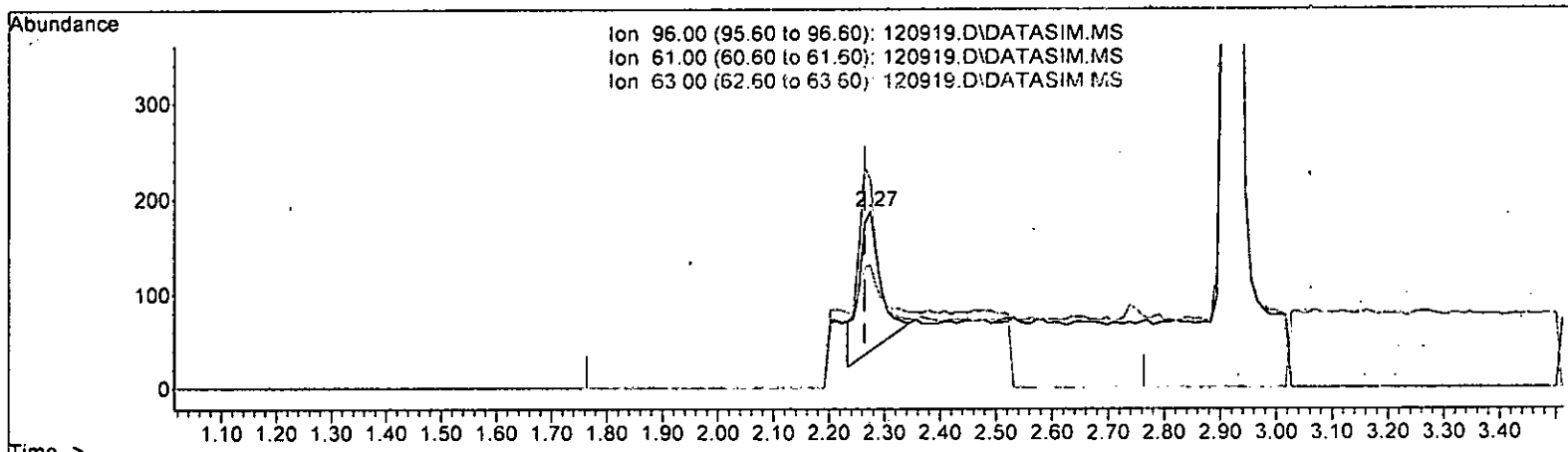
1.338min (+ 0.010) 0.848 ppb m

response	2853	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	42.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120919.D  
 Acq On : 09 Dec 2022 03:54 pm  
 Operator : lm  
 Sample : 212083-04 1/10  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:31 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120919.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.274min (+ 0.010) 0.177 ppb

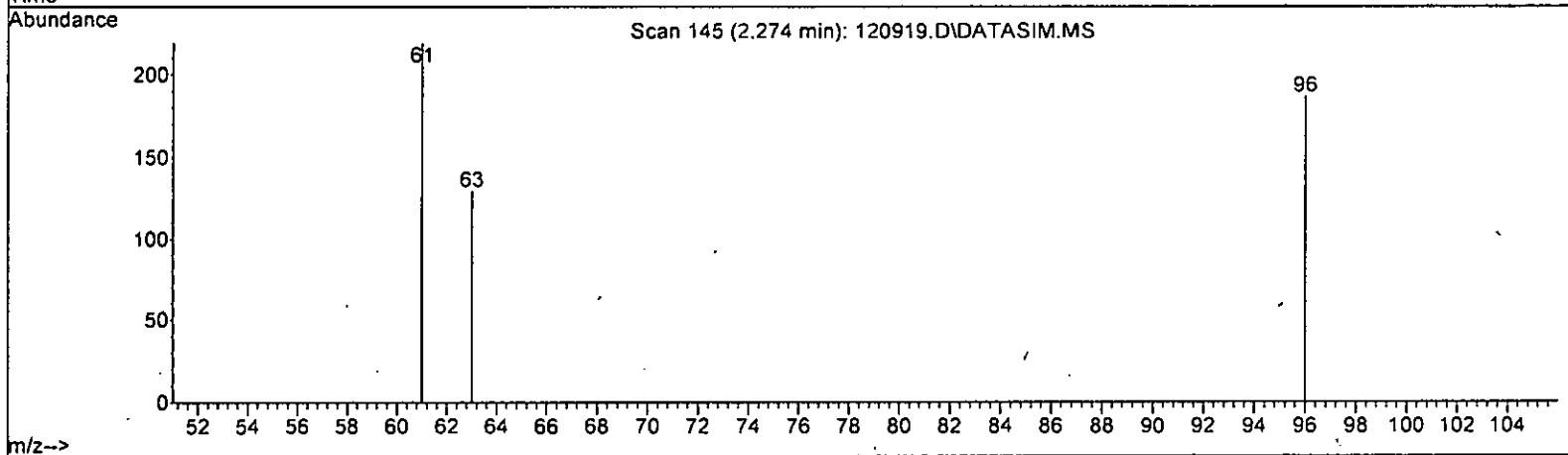
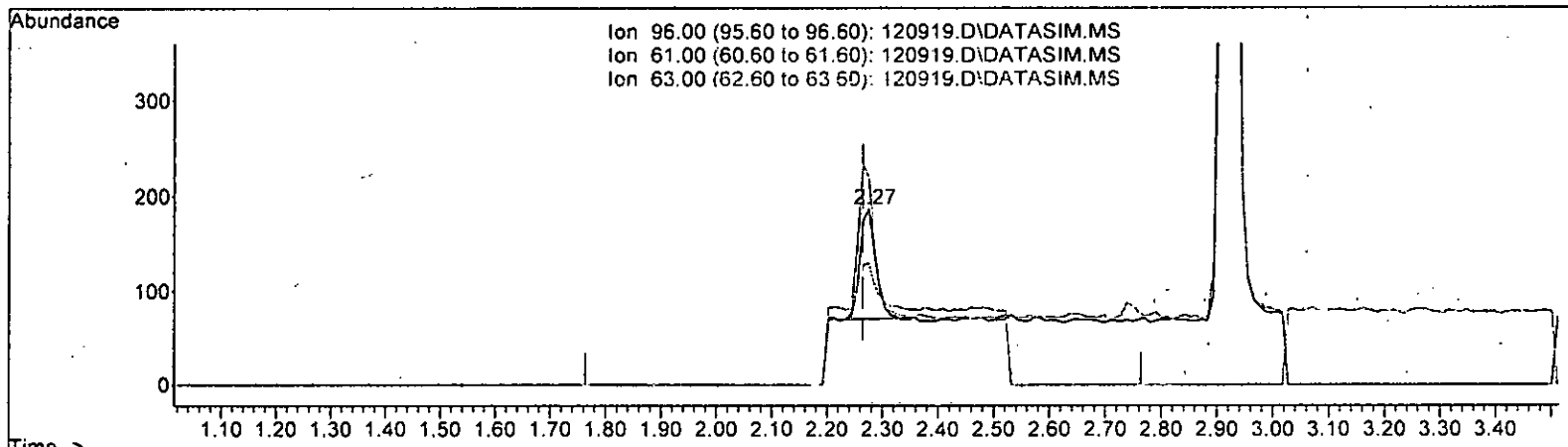
response 396

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	126.50
63.00	41.10	41.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120919.D  
 Acq On : 09 Dec 2022 03:54 pm  
 Operator : lm  
 Sample : 212083-04 1/10  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:31 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120919.D\DATA.MS

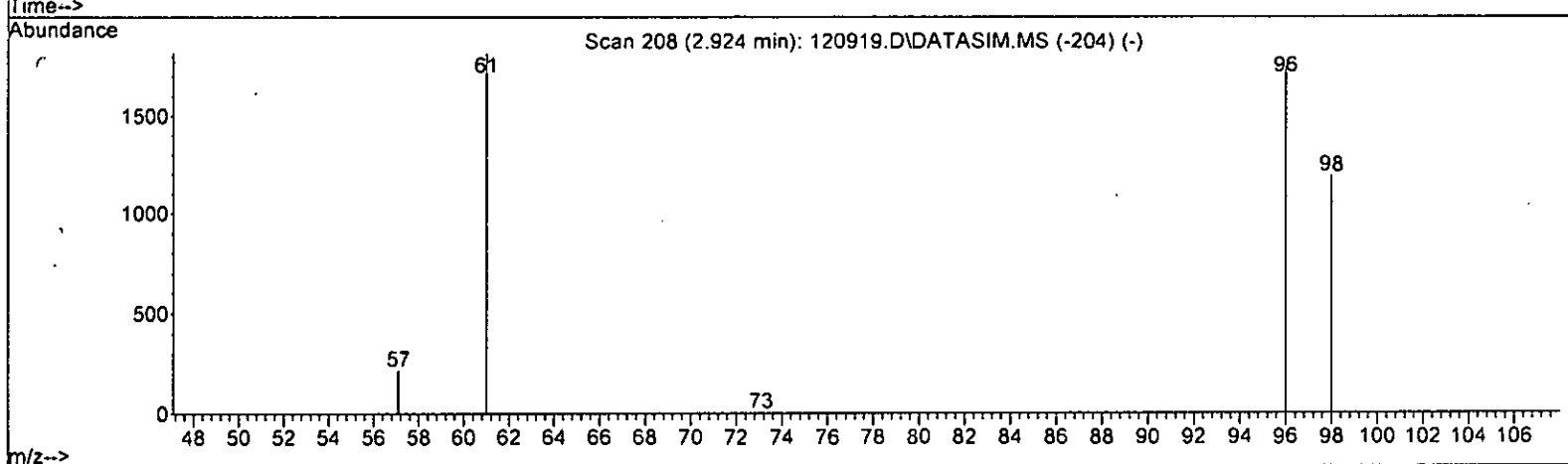
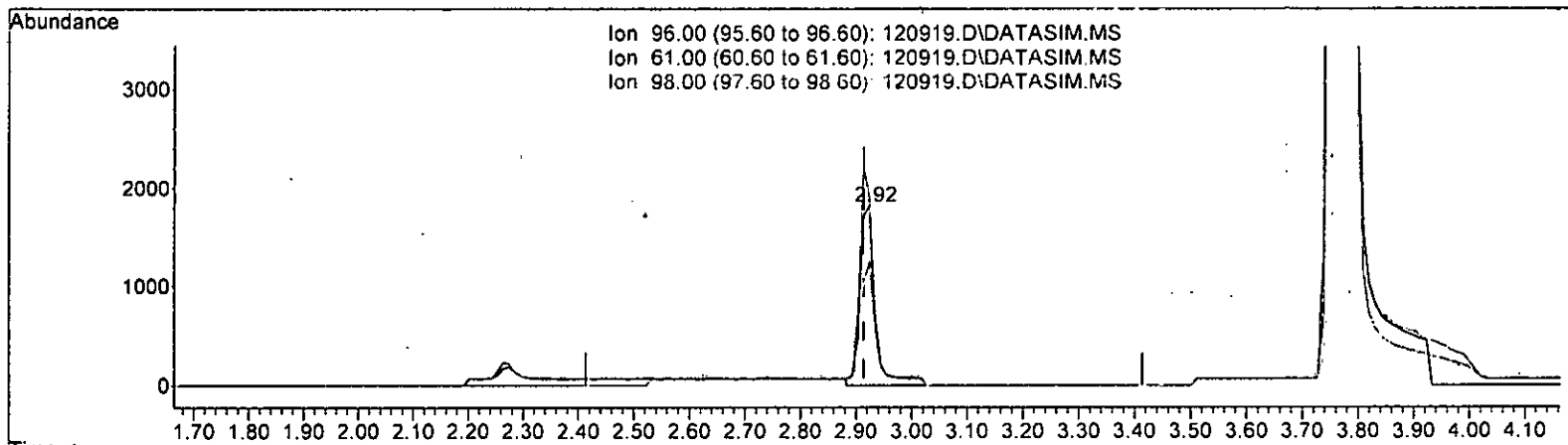
(12) 1,1-Dichloroethene (TMP)  
 2.274min (+ 0.010) 0.102 ppb m

response	227	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	117.74
63.00	41.10	69.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120919.D  
 Acq On : 09 Dec 2022 03:54 pm  
 Operator : lm  
 Sample : 212083-04 1/10  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:31 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120919.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 1.398 ppb

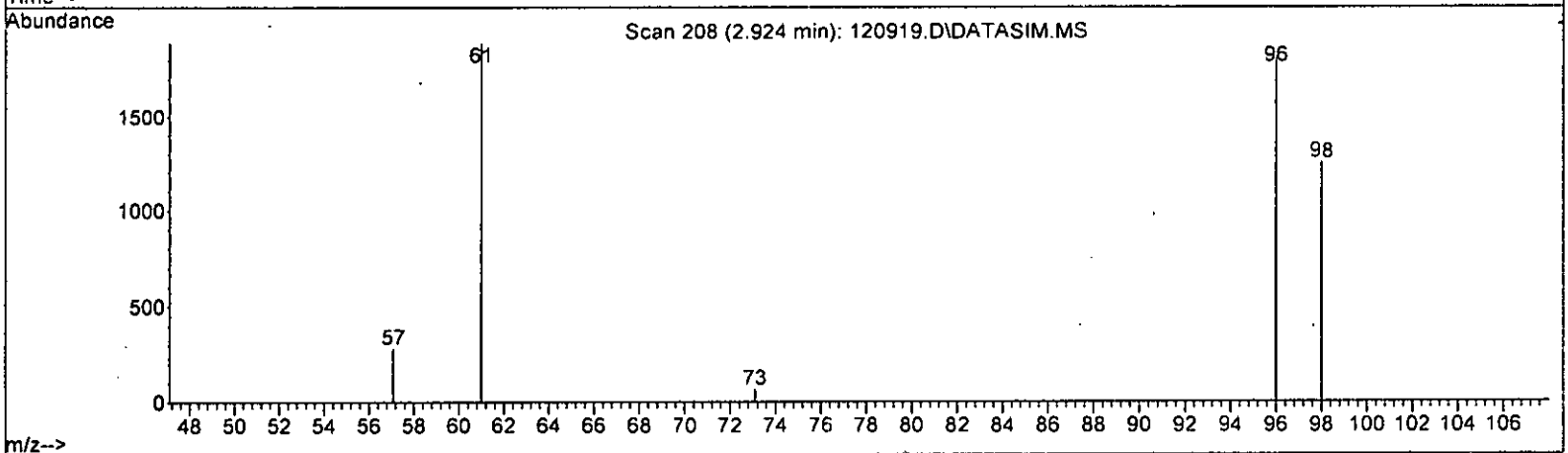
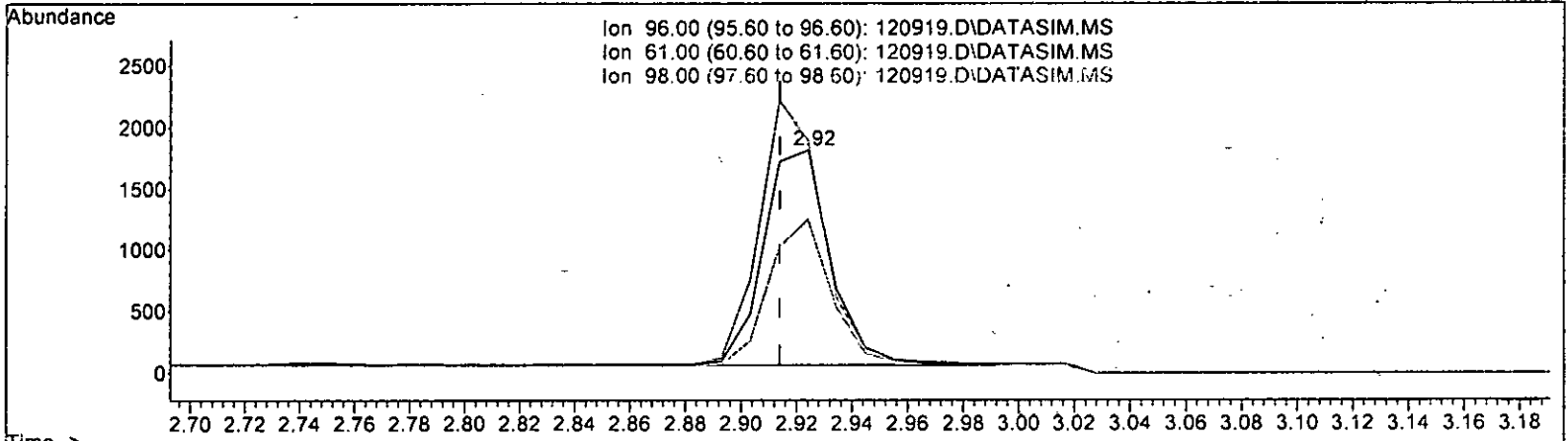
response 3461

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	104.19
98.00	62.70	69.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120919.D  
 Acq On : 09 Dec 2022 03:54 pm  
 Operator : lm  
 Sample : 212083-04 1/10  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:31 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120919.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 1.184 ppb m

response	2931
Ion	Exp% Act%
96.00	100.00 100.00
61.00	107.00 104.19
98.00	62.70 69.09
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120919.D  
 Acq On : 09 Dec 2022 03:54 pm  
 Operator : lm  
 Sample : 212083-04 1/10  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:31 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

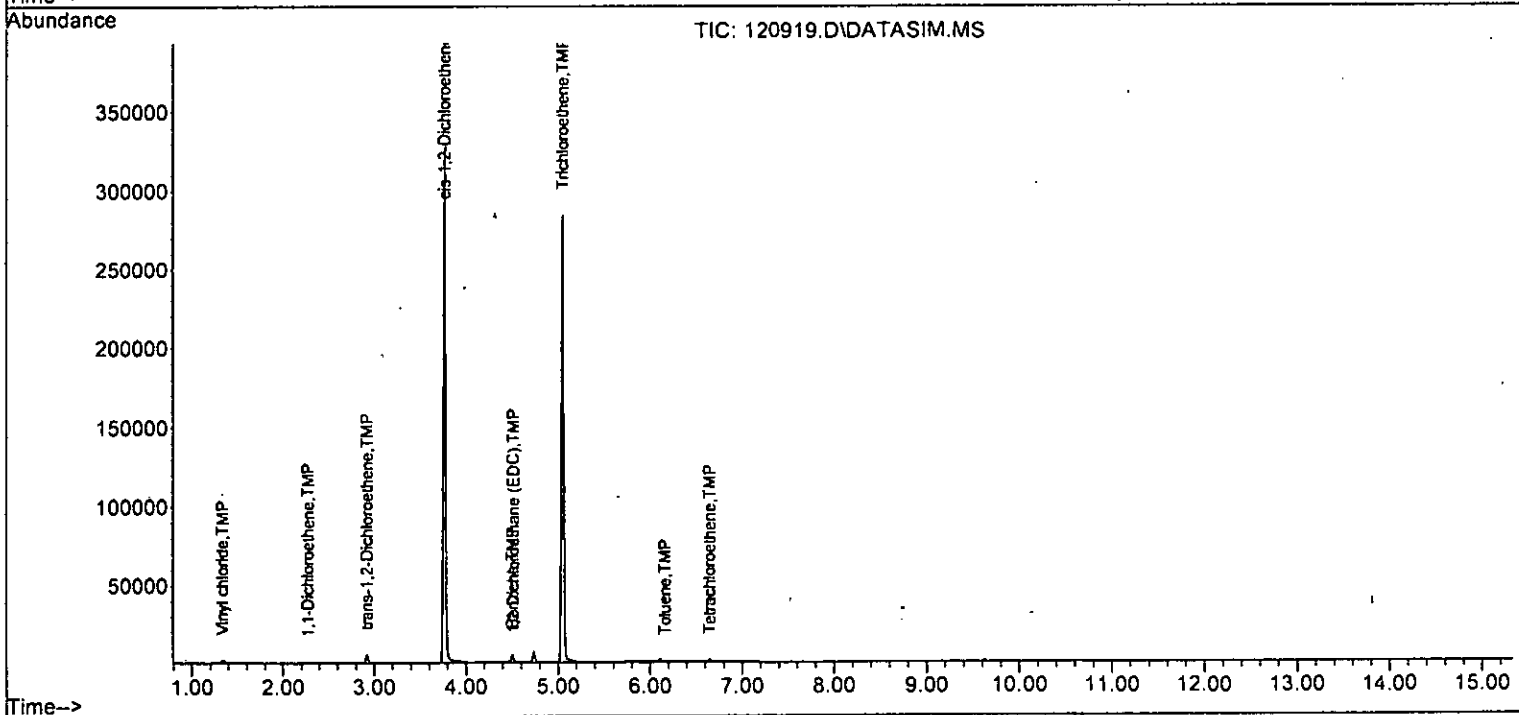
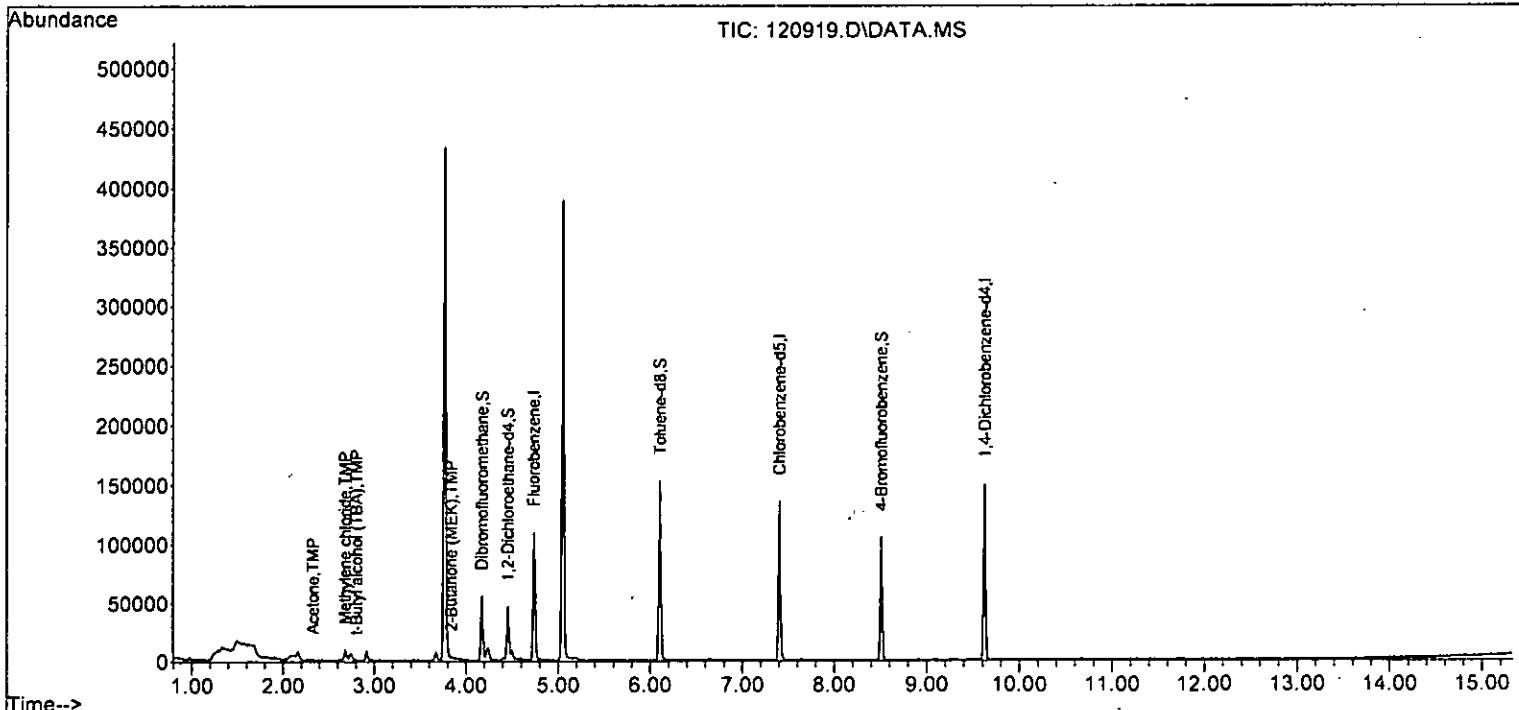
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	90201	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	66992	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	35635	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	25480	8.867	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	88.70%
30) 1,2-Dichloroethane-d4	4.45	102	5217	9.687	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	96.90%
35) Toluene-d8	6.10	98	85908	10.596	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	106.00%
57) 4-Bromofluorobenzene	8.51	95	27603	12.783	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	127.80%
Target Compounds						
						Qvalue
6] Vinyl chloride	1.34	62	2853m	0.848	ppb	
11) Acetone	2.33	58	209	2.826	ppb	# 30
12] 1,1-Dichloroethene	2.27	96	227m	0.102	ppb	
14) Methylene chloride	2.68	84	3863	1.095	ppb	88
15) t-Butyl alcohol (TBA)	2.81	59	61	0.303	ppb	55
17] trans-1,2-Dichloroethene	2.92	96	2931m	1.184	ppb	
21) 2,2-Dichloropropane	3.76	77	98	Below Cal		# 1
22] cis-1,2-Dichloroethene	3.77	96	185746,	69.511	ppb	95
24) 2-Butanone (MEK)	3.84	43	95	0.704	ppb	57
26] 1,2-Dichloroethane (EDC)	4.52	62	122	0.026	ppb	81
31] Benzene	4.50	78	6732	0.931	ppb	100
32] Trichloroethene	5.05	95	111467	40.640	ppb	# 74
33) 1,2-Dichloropropane	5.24	63	32	Below Cal		# 81
40] Toluene	6.16	92	118	0.019	ppb	97
45] Tetrachloroethene	6.65	164	423	0.138	ppb	97
49] Ethylbenzene	7.54	91	90	Below Cal		98
51] m,p-Xylene	7.65	106	67	Below Cal		85
52] o-Xylene	8.02	106	26	Below Cal		89

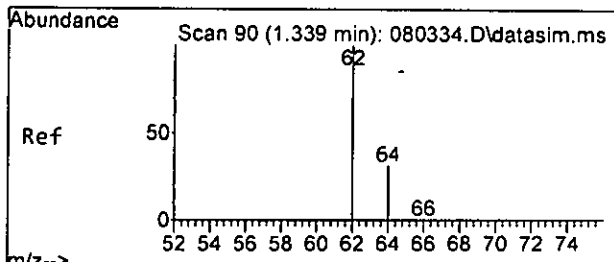
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120919.D  
 Acq On : 09 Dec 2022 03:54 pm  
 Operator : lm  
 Sample : 212083-04 1/10  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

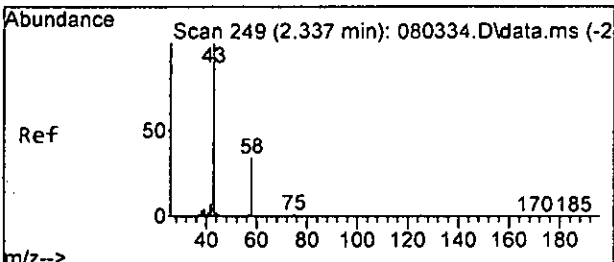
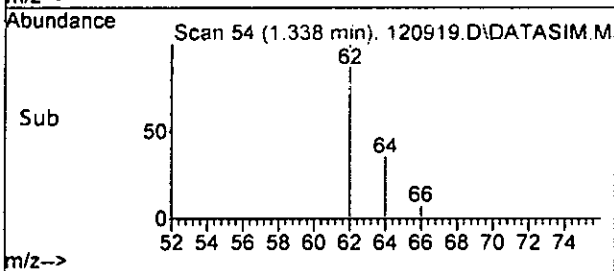
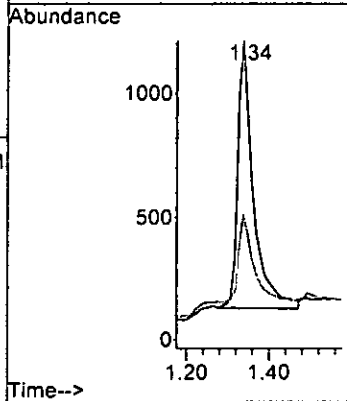
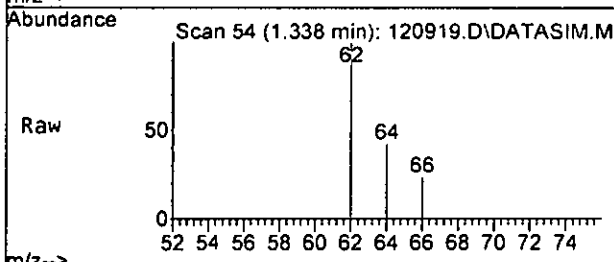
Quant Time: Dec 12 07:59:31 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M





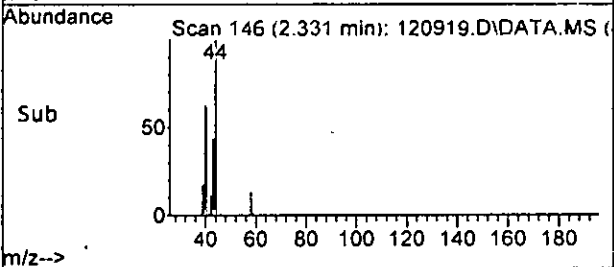
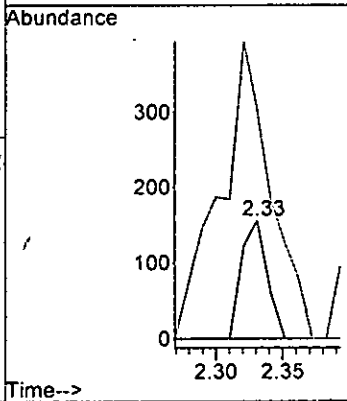
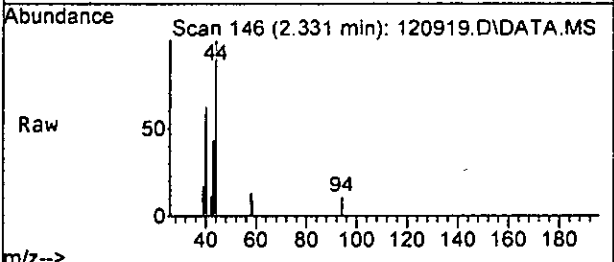
#6  
 Vinyl chloride  
 Concen: 0.848 ppb m  
 RT: 1.34 min Scan# 54  
 Delta R.T. 0.010 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

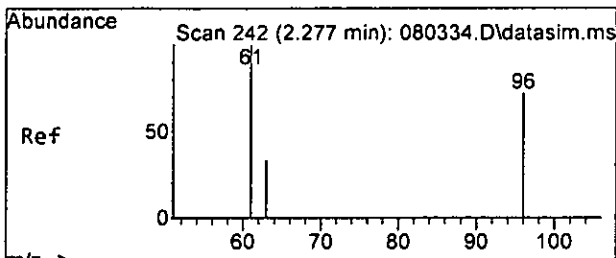
Tgt Ion: 62 Resp: 2853  
 Ion Ratio Lower Upper  
 62 100  
 64 42.2 0.2 60.2



#11  
 Acetone  
 Concen: 2.826 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

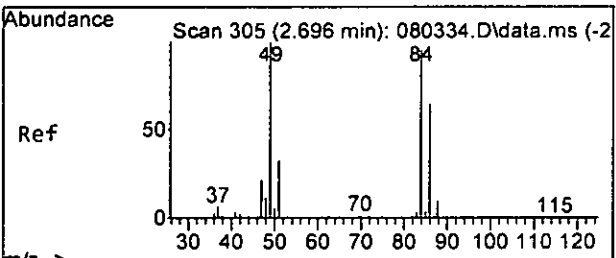
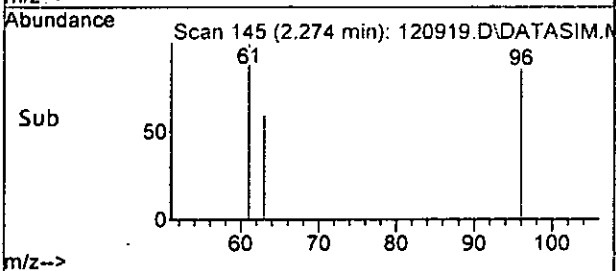
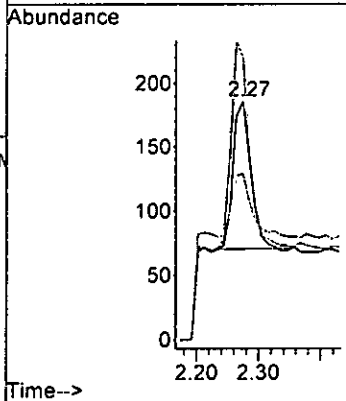
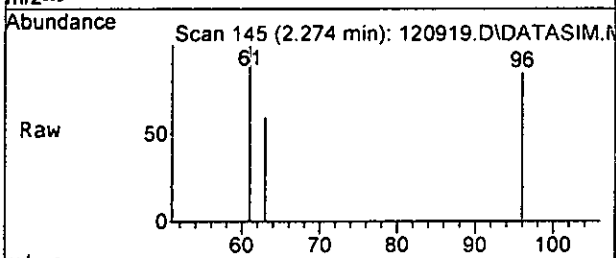
Tgt Ion: 58 Resp: 209  
 Ion Ratio Lower Upper  
 58 100  
 43 540.7 350.8 410.8#





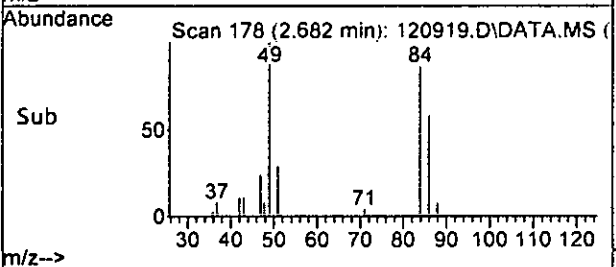
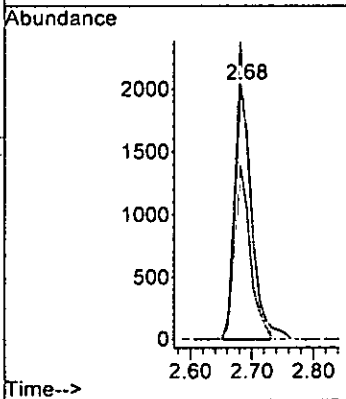
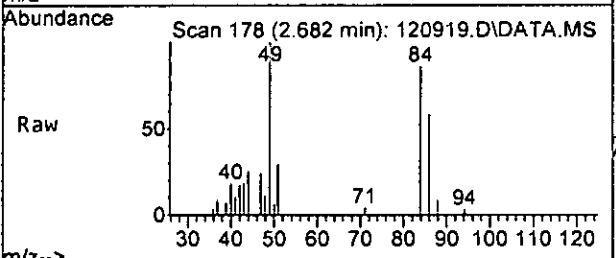
#12  
 1,1-Dichloroethene  
 Concen: 0.102 ppb m  
 RT: 2.27 min Scan# 145  
 Delta R.T. 0.010 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

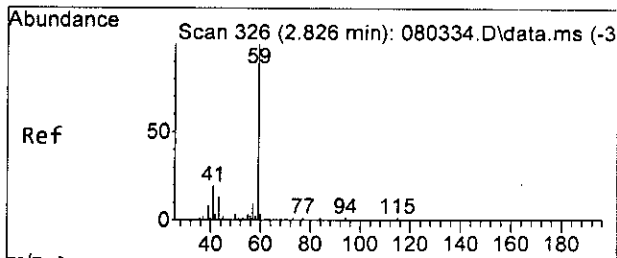
Tgt Ion	Resp	Lower	Upper
96	100		
61	117.7	97.1	157.1
63	69.4	11.1	71.1



#14  
 Methylene chloride  
 Concen: 1.095 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

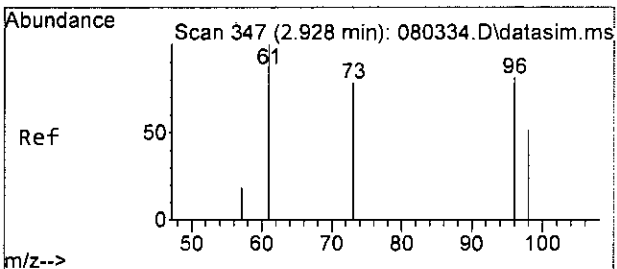
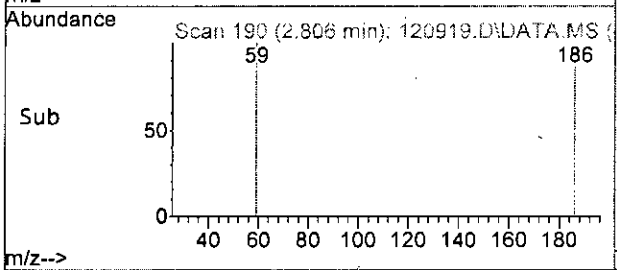
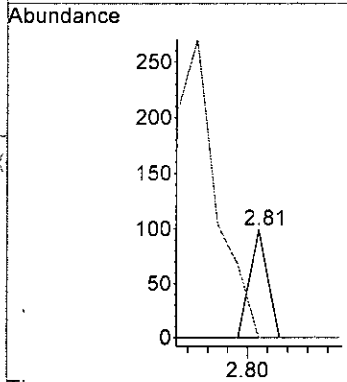
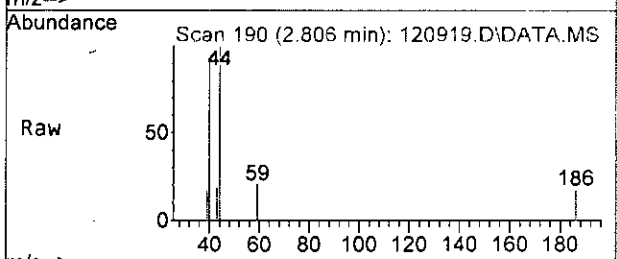
Tgt Ion	Resp	Lower	Upper
84	100		
86	67.8	41.2	101.2
49	116.8	69.2	129.2





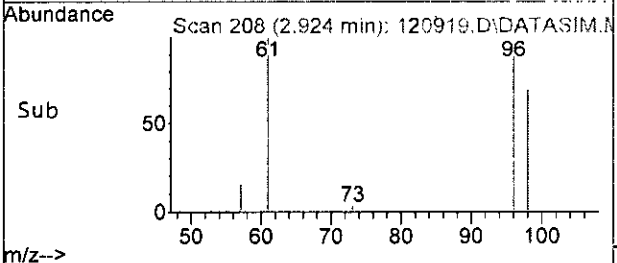
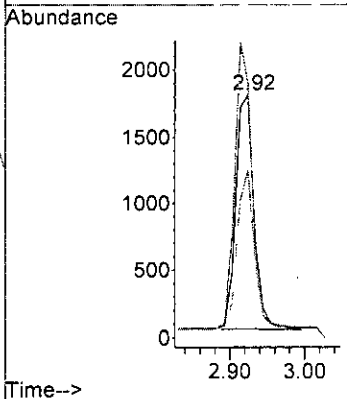
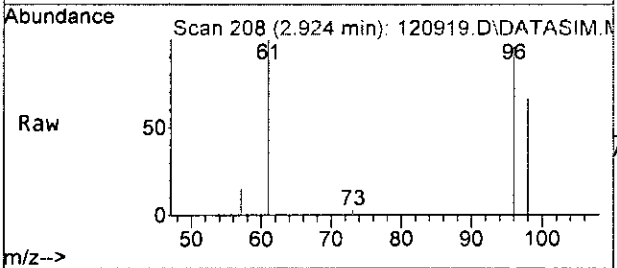
#15  
 t-Butyl alcohol (TBA)  
 Concen: 0.303 ppb  
 RT: 2.81 min Scan# 190  
 Delta R.T. -0.000 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

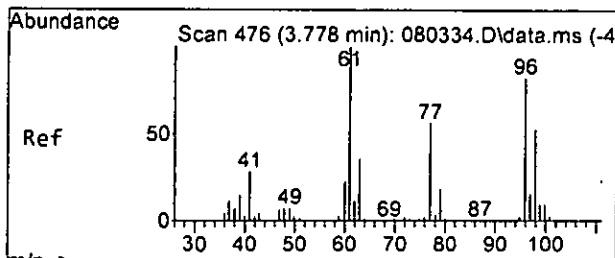
Tgt Ion: 59 Resp: 61  
 Ion Ratio Lower Upper  
 59 100  
 41 0.0 0.0 50.8



#17  
 trans-1,2-Dichloroethene  
 Concen: 1.184 ppb m  
 RT: 2.92 min Scan# 208  
 Delta R.T. 0.010 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

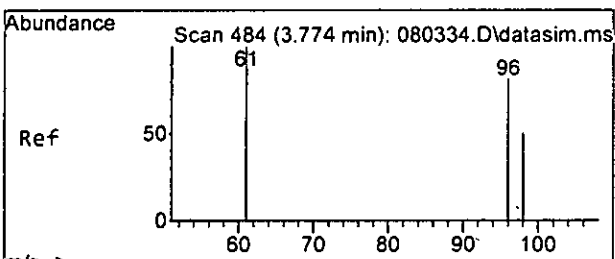
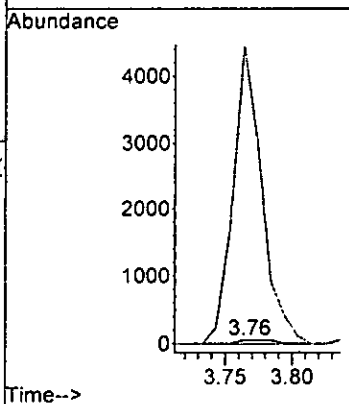
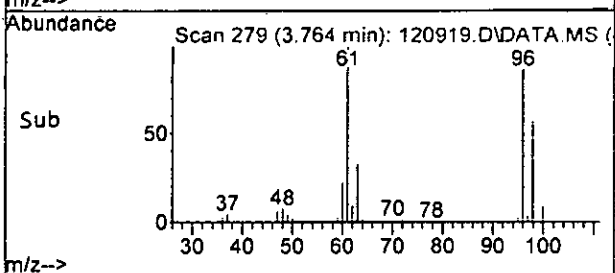
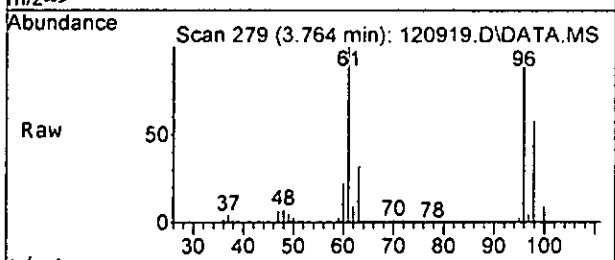
Tgt Ion: 96 Resp: 2931  
 Ion Ratio Lower Upper  
 96 100  
 61 104.2 77.0 137.0  
 98 69.1 32.7 92.7





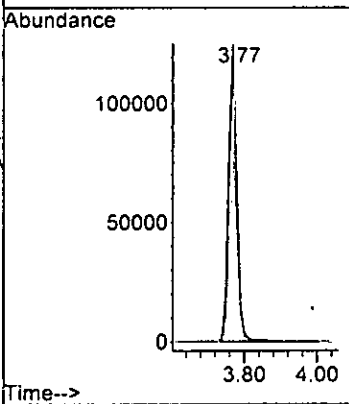
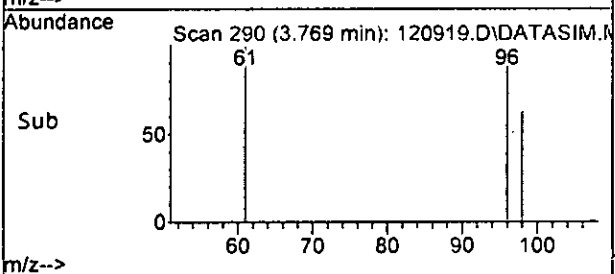
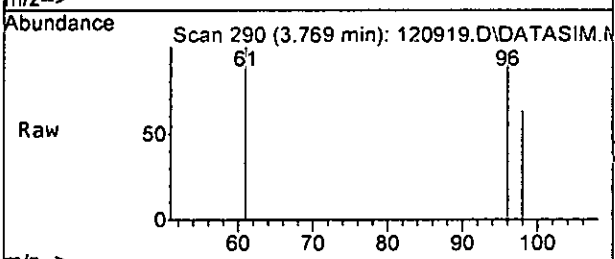
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.76 min Scan# 279  
 Delta R.T. -0.000 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

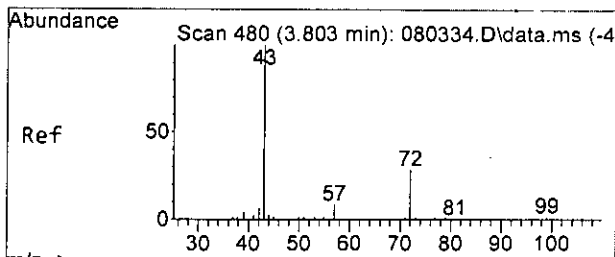
Tgt Ion: 77 Resp: 98  
 Ion Ratio Lower Upper  
 77 100  
 97 8072.2 2.0 62.0#



#22  
 cis-1,2-Dichloroethene  
 Concen: 69.511 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. -0.000 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

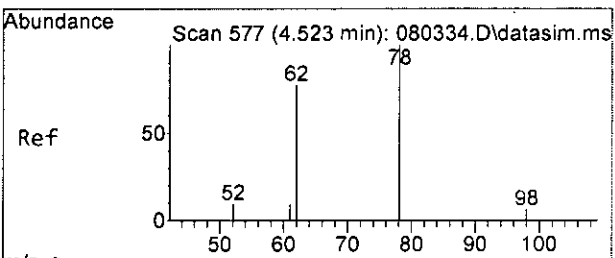
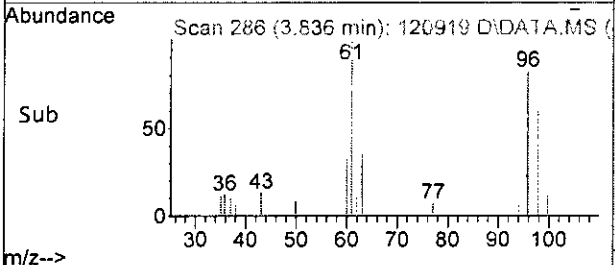
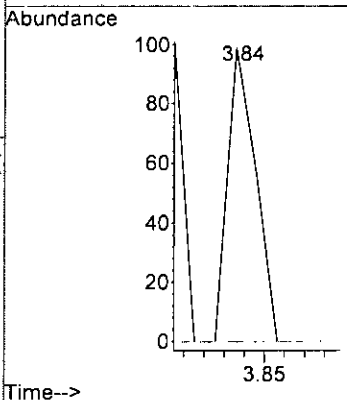
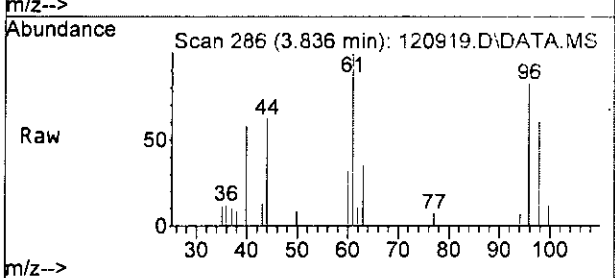
Tgt Ion: 96 Resp: 185746  
 Ion Ratio Lower Upper  
 96 100  
 61 103.1 67.0 127.0  
 98 65.1 38.1 98.1





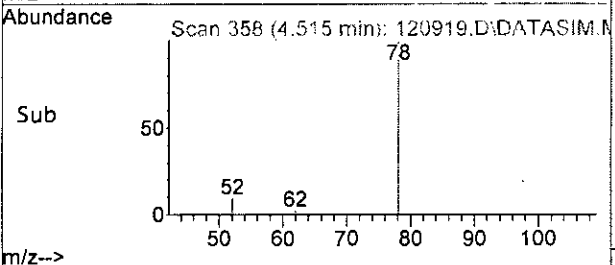
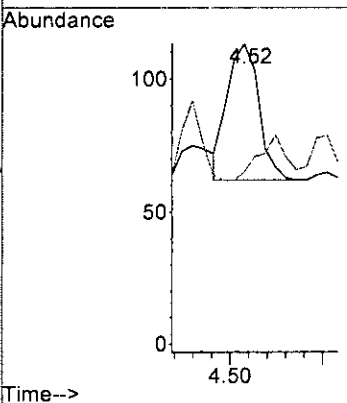
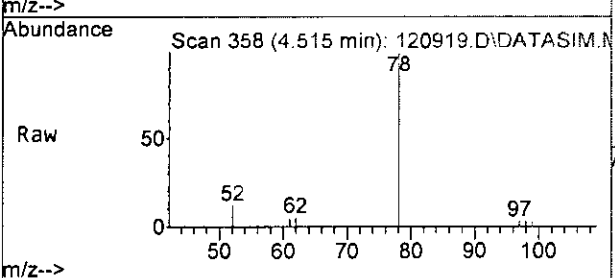
#24  
 2-Butanone (MEK)  
 Concen: 0.704 ppb  
 RT: 3.84 min Scan# 286  
 Delta R.T. 0.051 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

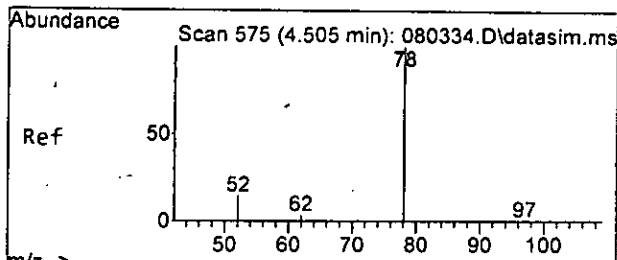
Tgt Ion	Resp	Lower	Upper
43	100		
72	0.0	0.0	54.9
57	0.0	0.0	28.8



#26  
 1,2-Dichloroethane (EDC)  
 Concen: 0.026 ppb  
 RT: 4.52 min Scan# 358  
 Delta R.T. -0.001 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

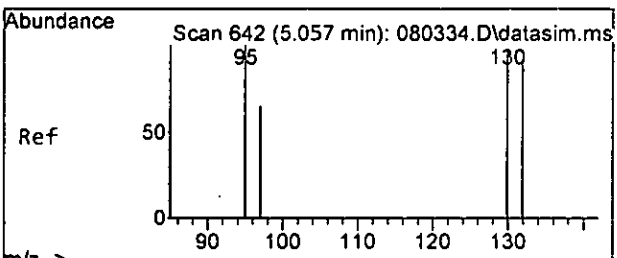
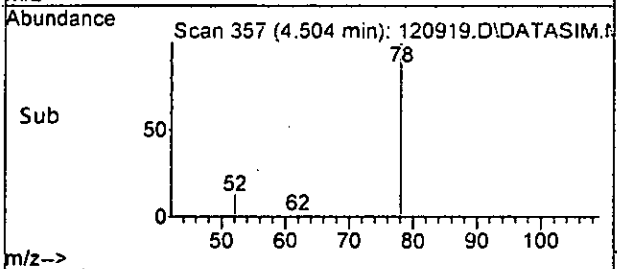
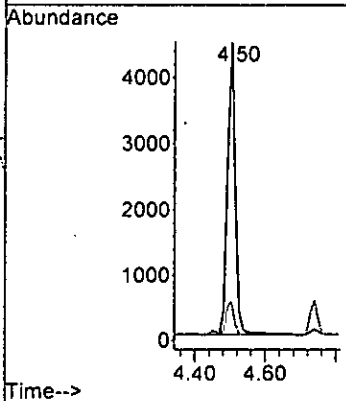
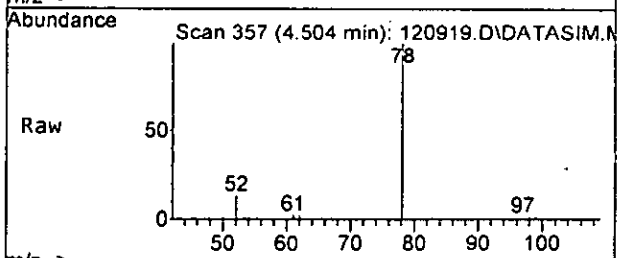
Tgt Ion	Resp	Lower	Upper
62	100		
98	2.0	0.0	38.9





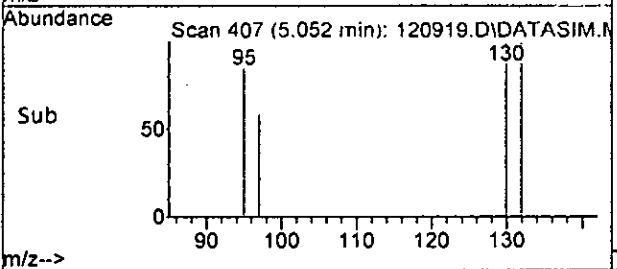
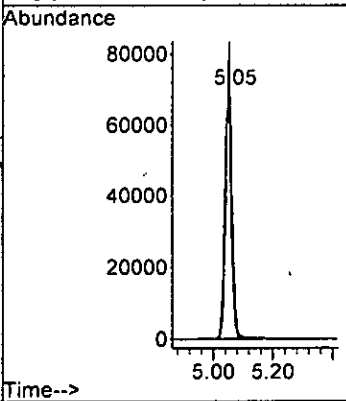
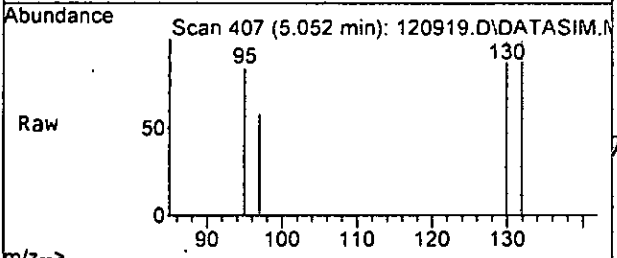
#31  
Benzene  
Concen: 0.931 ppb  
RT: 4.50 min Scan# 357  
Delta R.T. -0.001 min  
Lab File: 120919.D  
Acq: 09 Dec 2022 03:54 pm

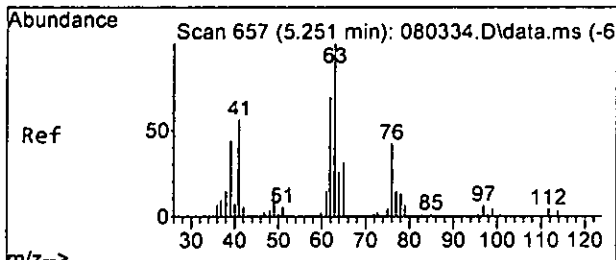
Tgt Ion: 78 Resp: 6732  
Ion Ratio Lower Upper  
78 100  
52 12.0 0.0 42.0



#32  
Trichloroethene  
Concen: 40.640 ppb  
RT: 5.05 min Scan# 407  
Delta R.T. -0.001 min  
Lab File: 120919.D  
Acq: 09 Dec 2022 03:54 pm

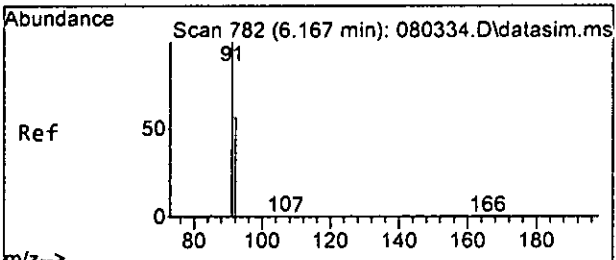
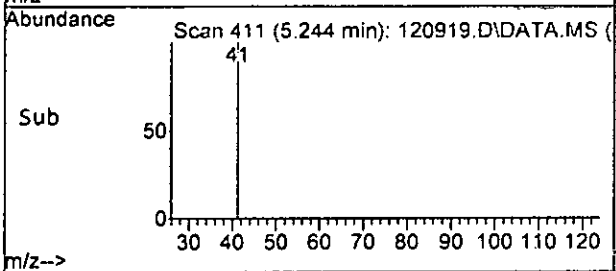
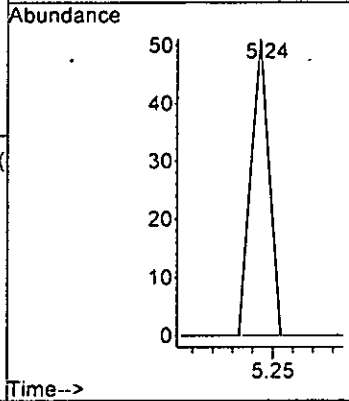
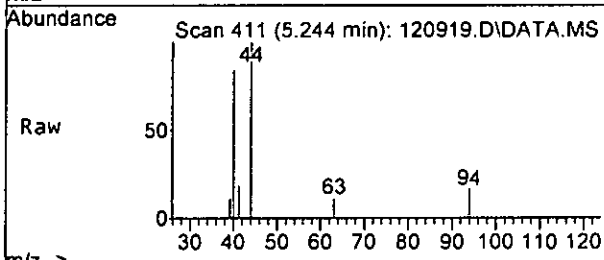
Tgt Ion: 95 Resp: 111467  
Ion Ratio Lower Upper  
95 100  
97 68.9 39.9 99.9  
130 119.0 131.0 191.0#  
132 117.7 130.1 190.1#





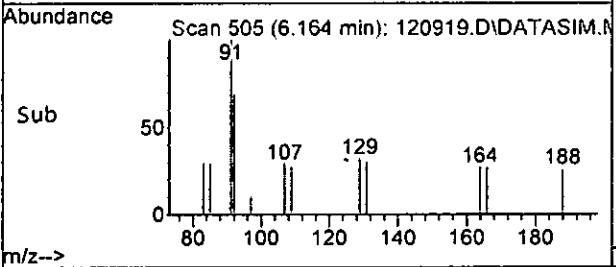
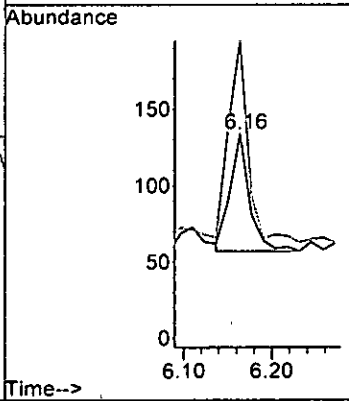
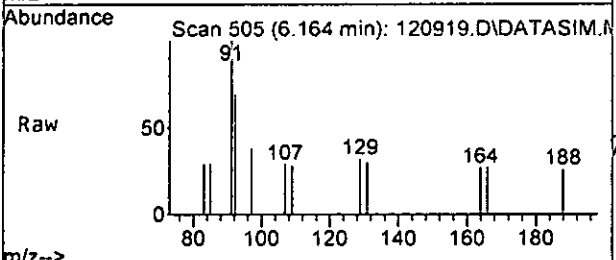
#33  
 1,2-Dichloropropane  
 Concen: Below Cal  
 RT: 5.24 min Scan# 411  
 Delta R.T. -0.000 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

Tgt Ion: 63 Resp: 32  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 0.0 36.5

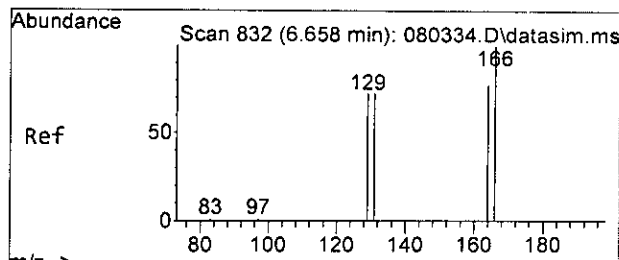


#40  
 Toluene  
 Concen: 0.019 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

Tgt Ion: 92 Resp: 118  
 Ion Ratio Lower Upper  
 92 100  
 91 171.4 137.5 197.5

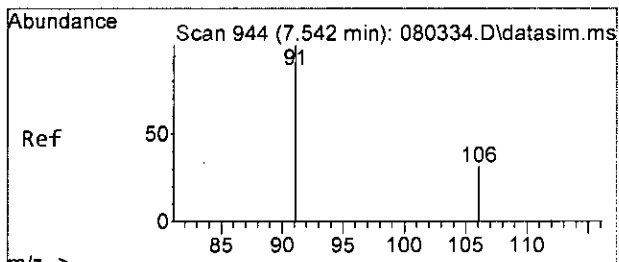
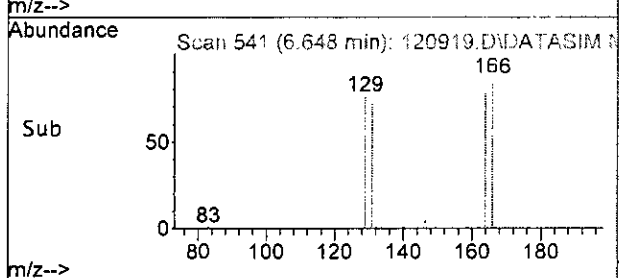
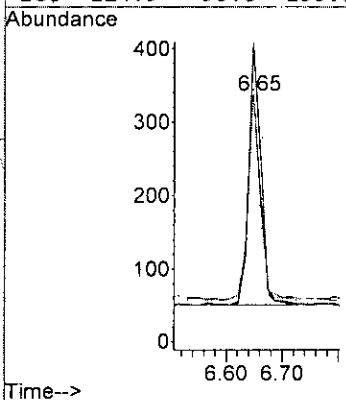
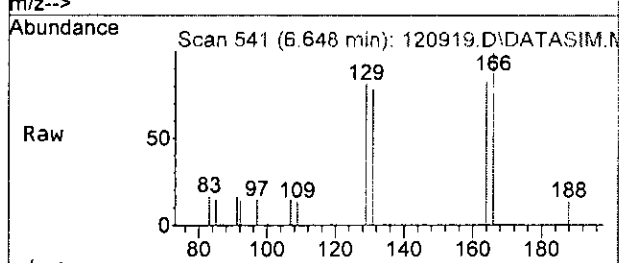






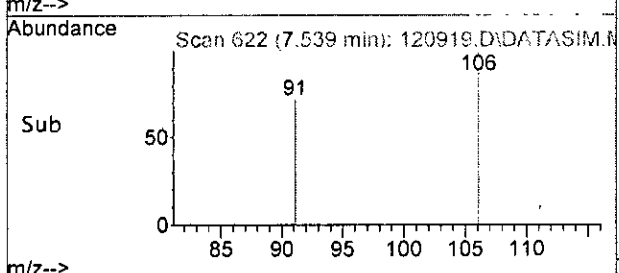
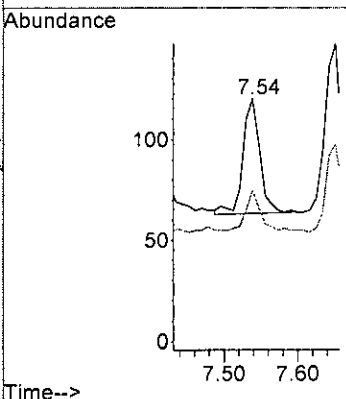
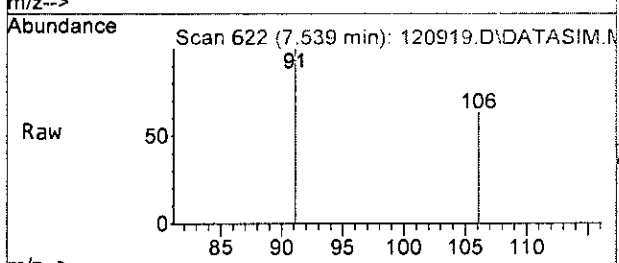
#45  
 Tetrachloroethene  
 Concen: 0.138 ppb  
 RT: 6.65 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

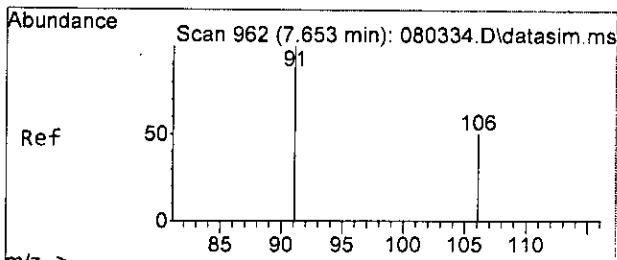
Tgt Ion: 164 Resp: 423  
 Ion Ratio Lower Upper  
 164 100  
 129 95.4 60.6 120.6  
 131 91.2 58.0 118.0  
 166 124.9 95.8 155.8



#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. -0.000 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

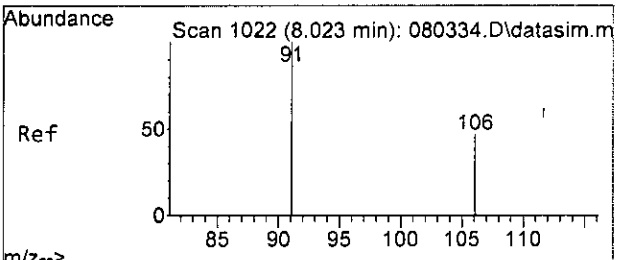
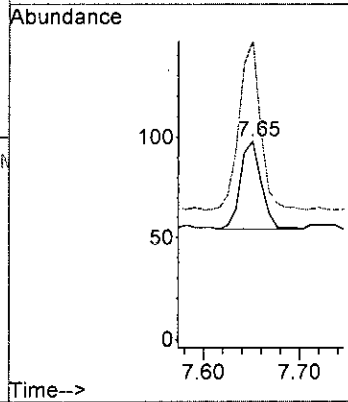
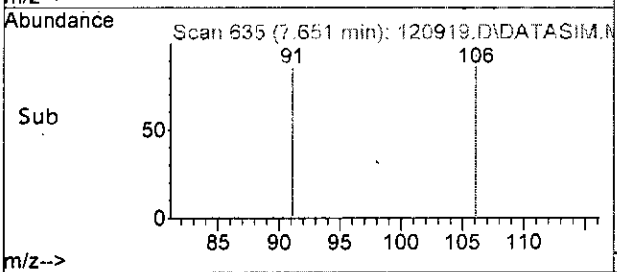
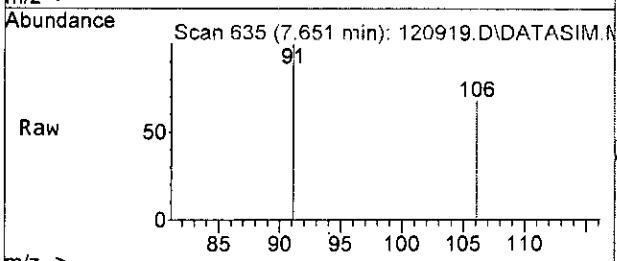
Tgt Ion: 91 Resp: 90  
 Ion Ratio Lower Upper  
 91 100  
 106 35.7 7.1 67.1





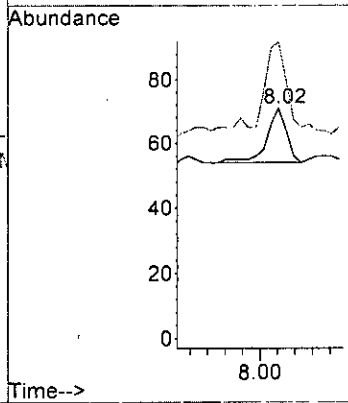
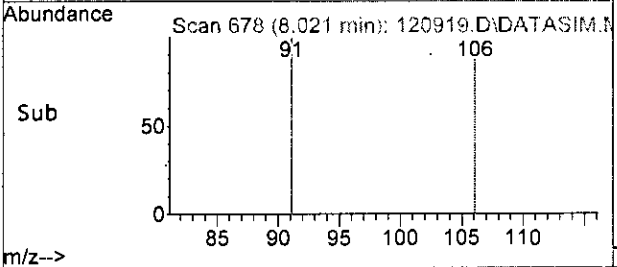
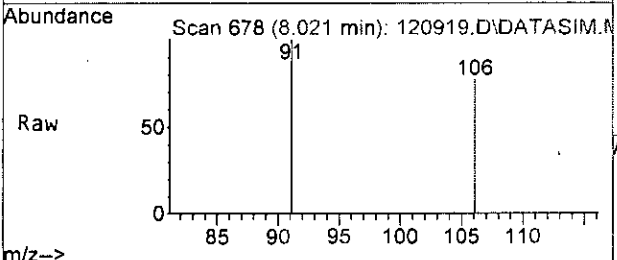
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

Tgt Ion: 106 Resp: 67  
 Ion Ratio Lower Upper  
 106 100  
 91 188.6 138.1 198.1



#52  
 o-Xylene  
 Concen: Below Cal  
 RT: 8.02 min Scan# 678  
 Delta R.T. -0.001 min  
 Lab File: 120919.D  
 Acq: 09 Dec 2022 03:54 pm

Tgt Ion: 106 Resp: 26  
 Ion Ratio Lower Upper  
 106 100  
 91 158.8 143.9 203.9



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120919.D  
 Acq On : 09 Dec 2022 03:54 pm  
 Operator : lm  
 Sample : 212083-04 1/10  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:31 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	90201	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	66992	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	35635	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	25480	8.867	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	88.70%		
30) 1,2-Dichloroethane-d4	4.45	102	5217	9.687	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	96.90%		
35) Toluene-d8	6.10	98	85908	10.596	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	106.00%		
57) 4-Bromofluorobenzene	8.51	95	27603	12.783	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	127.80%		
<b>Target Compounds</b>							
2) Ethanol	2.34	45	34	No Calib			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.27	50	1467	N.D.			
6] Vinyl chloride	1.34	62	2853m	0.848	ppb		
7) Bromomethane	0.00		0	N.D.			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.34	45	34	No Calib			
11) Acetone	2.33	58	209	2.826	ppb	#	30
12] 1,1-Dichloroethene	2.27	96	227m	0.102	ppb		
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.68	84	3863	1.095	ppb		88
15) t-Butyl alcohol (TBA)	2.81	59	61	0.303	ppb		55
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17] trans-1,2-Dichloroethene	2.92	96	2931m	1.184	ppb		
18) Diisopropyl ether (DIPE)	3.30	45	35	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.76	77	98	Below Cal	#		1
22] cis-1,2-Dichloroethene	3.77	96	185746	69.511	ppb		95
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.84	43	95	0.704	ppb		57
25) t-Amyl methyl ether (T...)	4.51	73	144	N.D.			
26] 1,2-Dichloroethane (EDC)	4.52	62	122	0.026	ppb		81
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	6732	0.931	ppb		100
32] Trichloroethene	5.05	95	111467	40.640	ppb	#	74
33) 1,2-Dichloropropane	5.24	63	32	Below Cal	#		81
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120919.D  
 Acq On : 09 Dec 2022 03:54 pm  
 Operator : lm  
 Sample : 212083-04 1/10  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

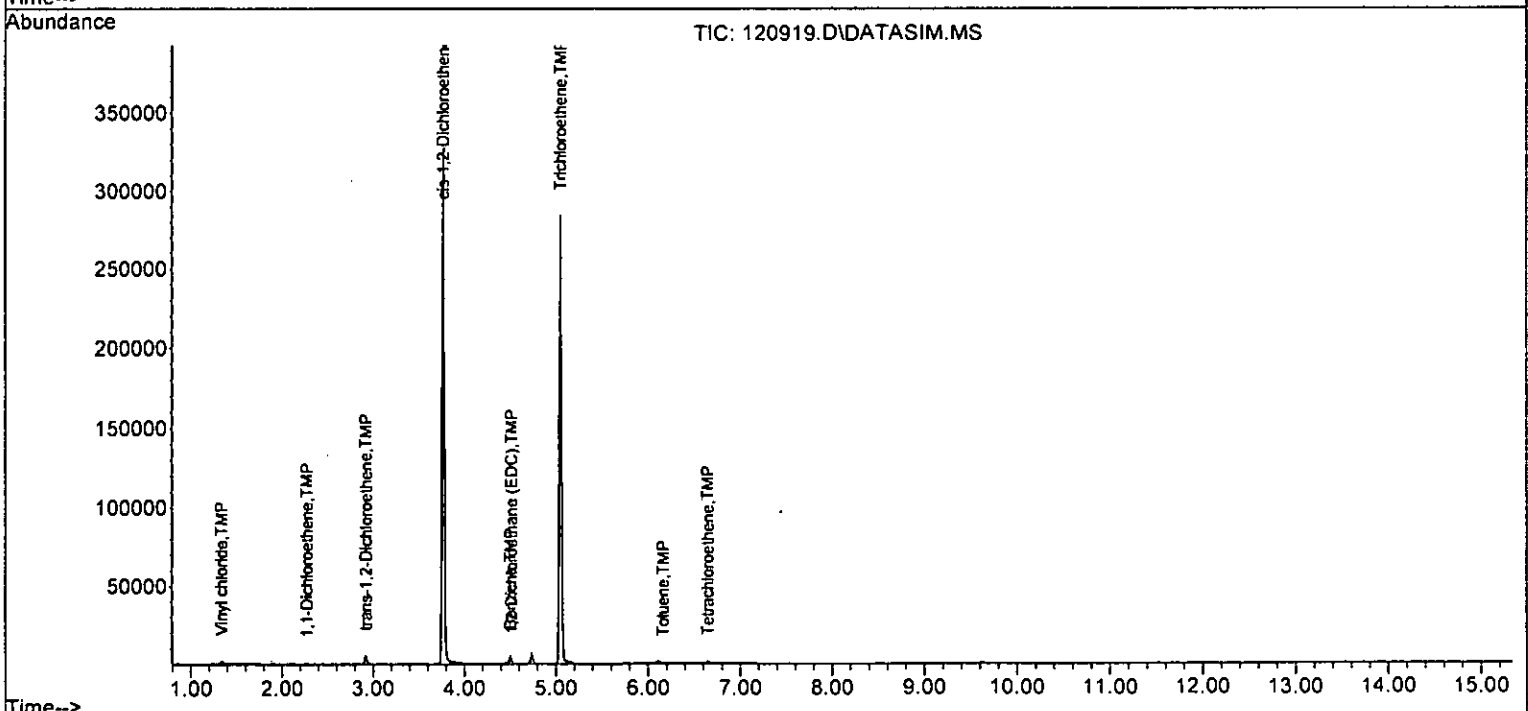
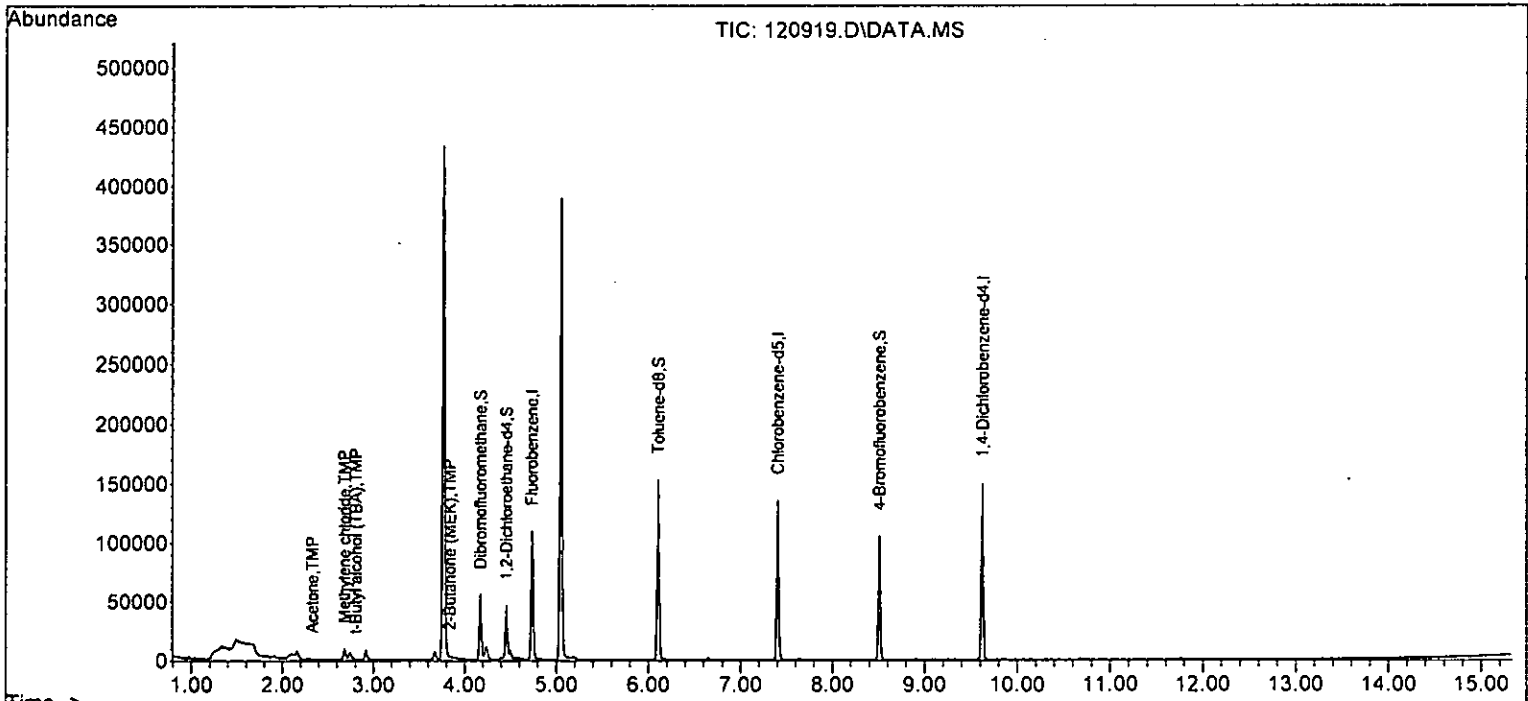
Quant Time: Dec 12 07:59:31 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40] Toluene	6.16	92	118	0.019 ppb	97
41) trans-1,3-Dichloropropene	0.00		0	N.D.	
42) 1,1,2-Trichloroethane	6.65	83	20	N.D.	
43) 2-Hexanone	0.00		0	N.D. d	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45] Tetrachloroethene	6.65	164	423	0.138 ppb	97
46) Dibromochloromethane	0.00		0	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	0.00		0	N.D.	
49] Ethylbenzene	7.54	91	90	Below Cal	98
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.65	106	67	Below Cal	85
52] o-Xylene	8.02	106	26	Below Cal	89
53) Styrene	0.00		0	N.D.	
54) Isopropylbenzene	8.51	105	107	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	8.92	91	38	N.D.	
59) Bromobenzene	0.00		0	N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
62) 1,2,3-Trichloropropane	0.00		0	N.D. d	
63) 2-Chlorotoluene	8.92	91	38	N.D.	
64) 4-Chlorotoluene	8.92	91	38	N.D.	
65) tert-Butylbenzene	9.25	119	39	N.D.	
66) 1,2,4-Trimethylbenzene	9.28	105	73	N.D.	
67) sec-Butylbenzene	9.28	105	73	N.D.	
68) p-Isopropyltoluene	9.60	119	61	N.D.	
69) 1,3-Dichlorobenzene	9.64	146	21	N.D.	
70) 1,4-Dichlorobenzene	9.64	146	21	N.D.	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	
74) Hexachlorobutadiene	0.00		0	N.D.	
75) Naphthalene	11.83	128	24	N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120919.D  
 Acq On : 09 Dec 2022 03:54 pm  
 Operator : lm  
 Sample : 212083-04 1/10  
 Misc : water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS13

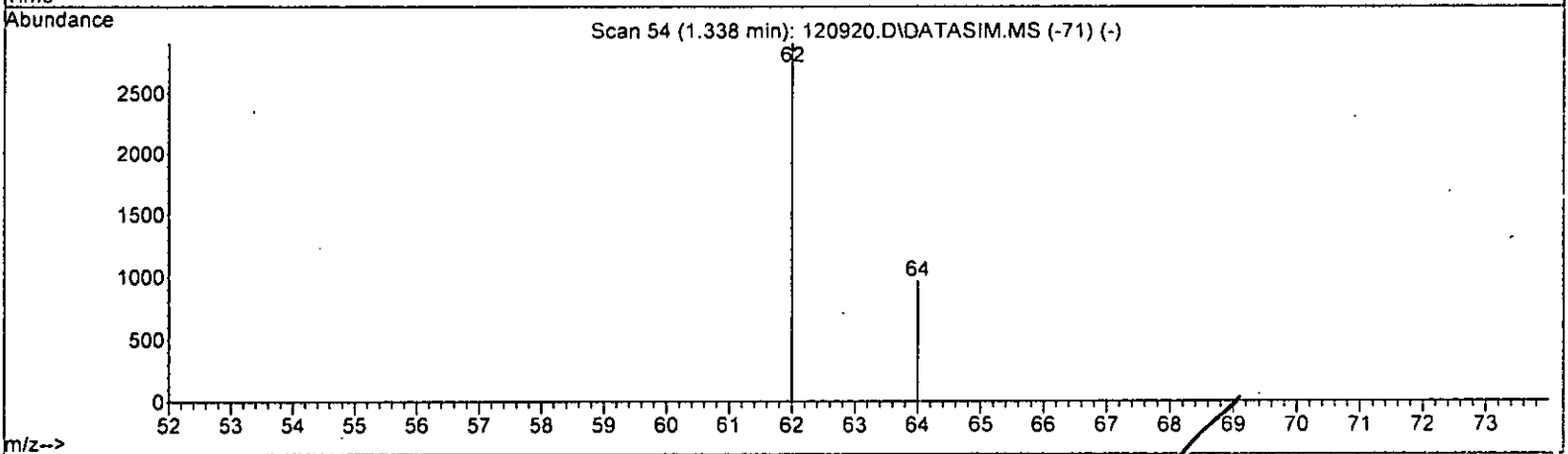
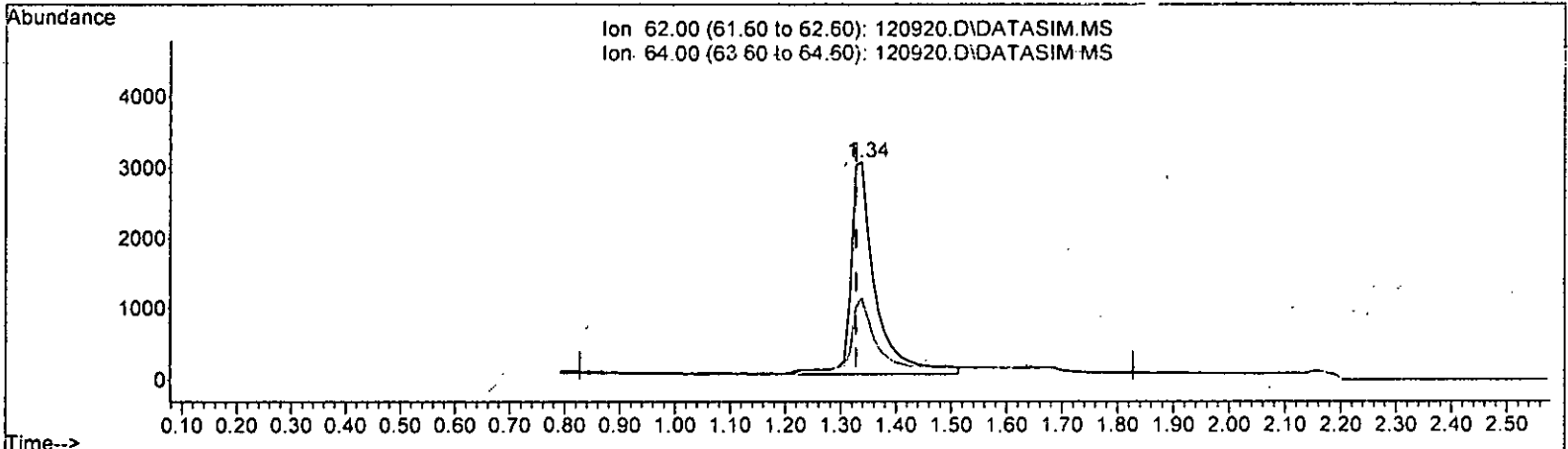
Quant Time: Dec 12 07:59:31 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120920.D  
 Acq On : 09 Dec 2022 04:17 pm  
 Operator : lm  
 Sample : 212083-05 1/10  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:35 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120920.D\DATA.MS

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 2.730 ppb

response 9134

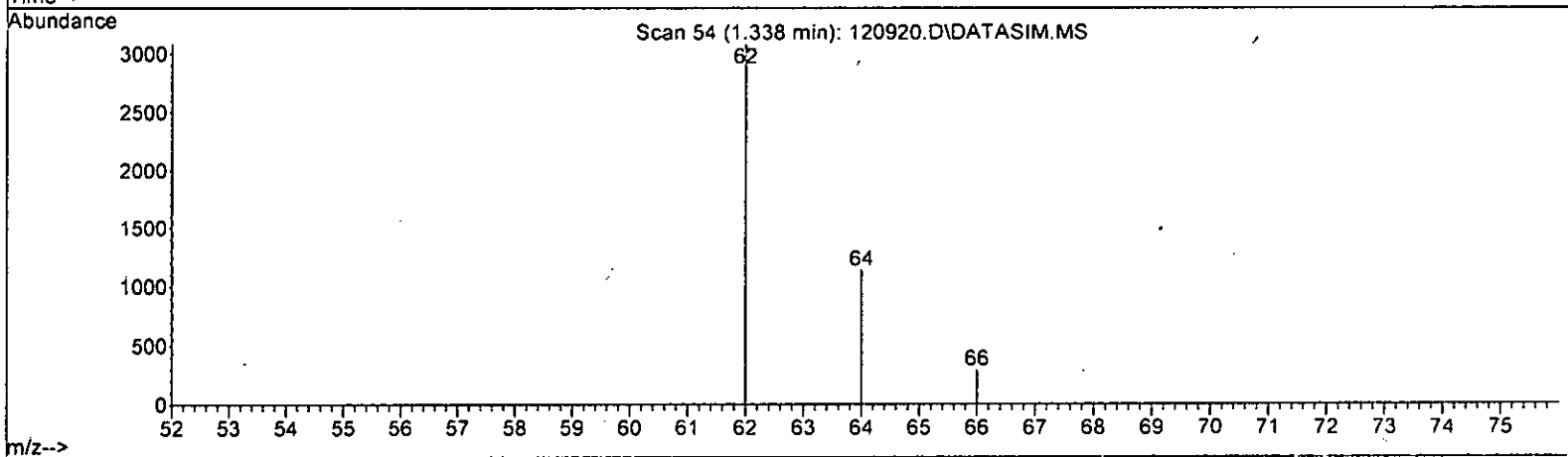
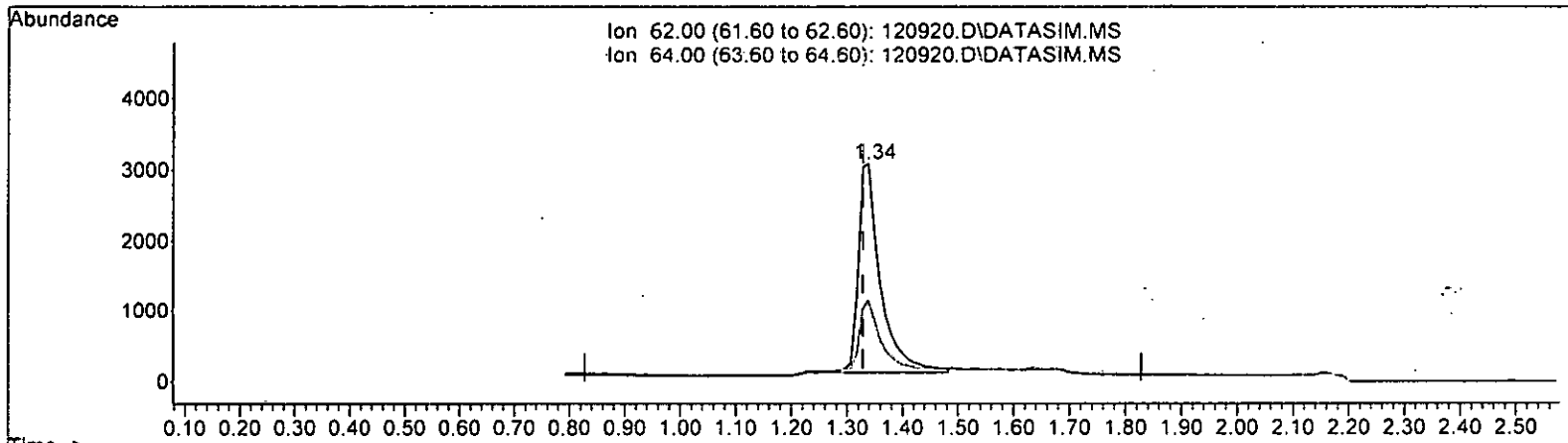
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	34.78
0.00	0.00	0.00
0.00	0.00	0.00

m 12.12

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120920.D  
 Acq On : 09 Dec 2022 04:17 pm  
 Operator : lm  
 Sample : 212083-05 1/10  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:35 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120920.D\DATA.MS

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 2.431 ppb m

response 8134

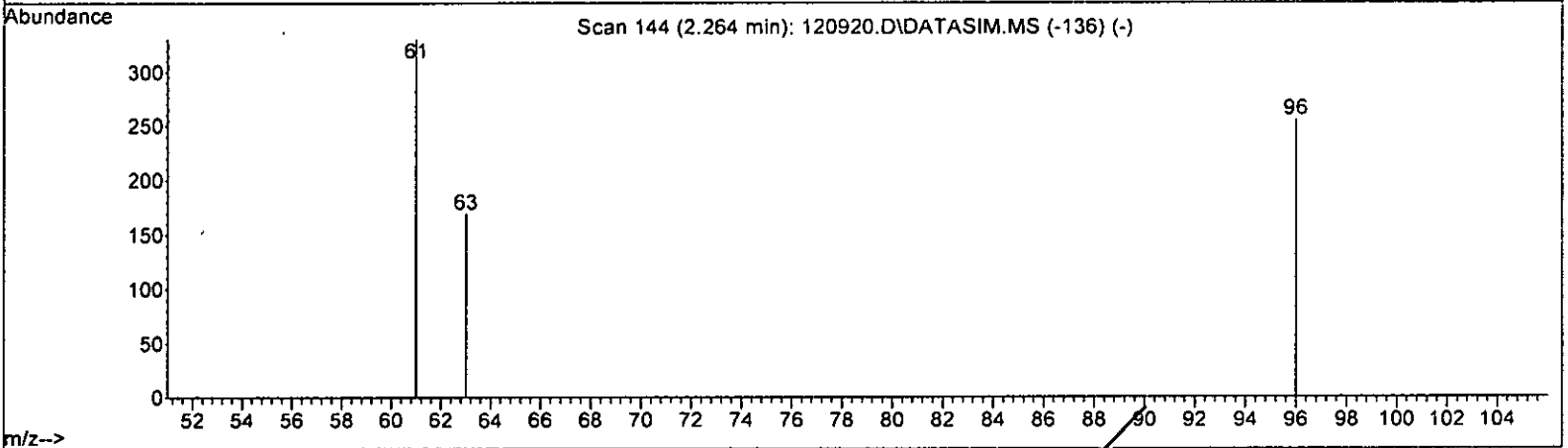
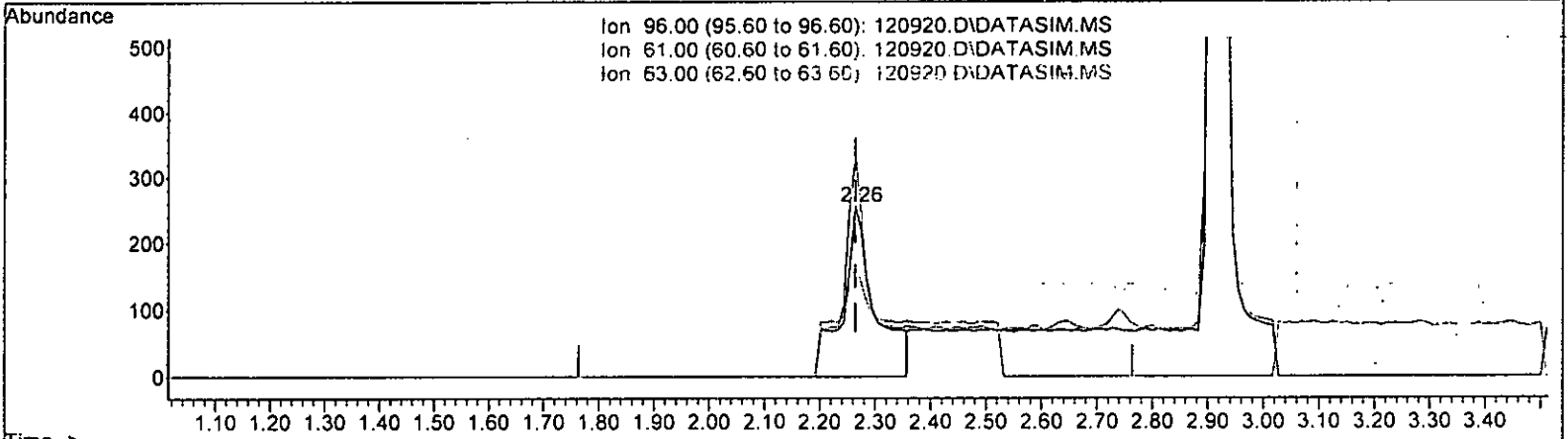
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	36.99
0.00	0.00	0.00
0.00	0.00	0.00

*lm 12/12*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120920.D  
 Acq On : 09 Dec 2022 04:17 pm  
 Operator : lm  
 Sample : 212083-05 1/10  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:35 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120920.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)  
 2.264min (-0.000) 0.464 ppb

response	1032
Ion	Exp% Act%
96.00	100.00 100.00
61.00	127.10 129.80
63.00	41.10 66.27
0.00	0.00 0.00

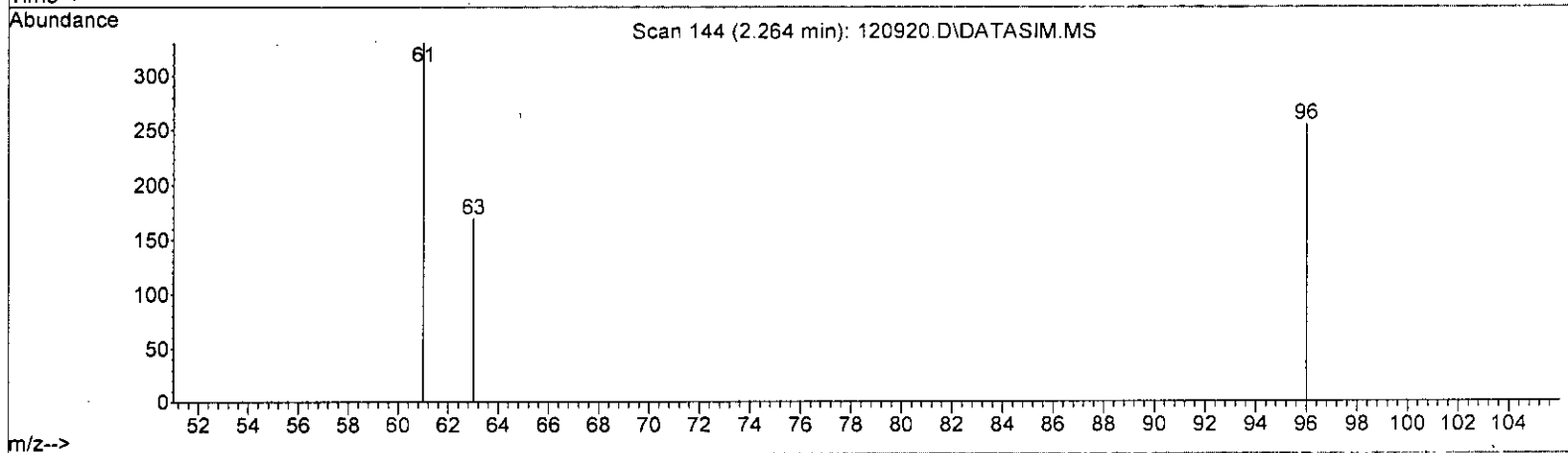
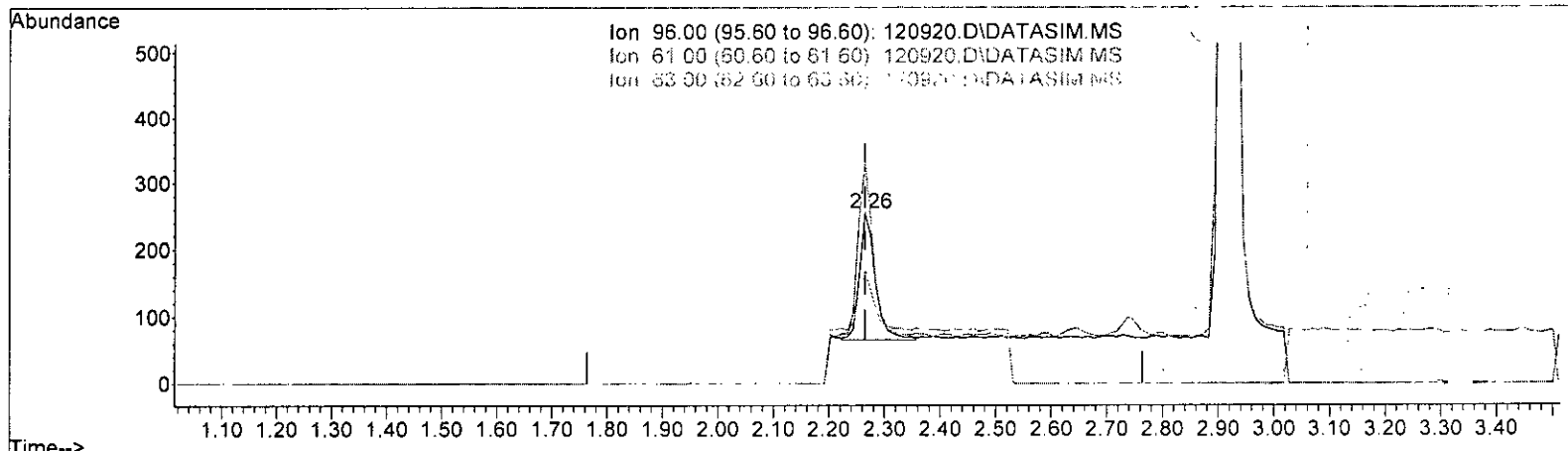
*m 12.12*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120920.D  
 Acq On : 09 Dec 2022 04:17 pm  
 Operator : lm  
 Sample : 212083-05 1/10  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:35 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120920.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.264min (-0.000) 0.172 ppb m

response 382

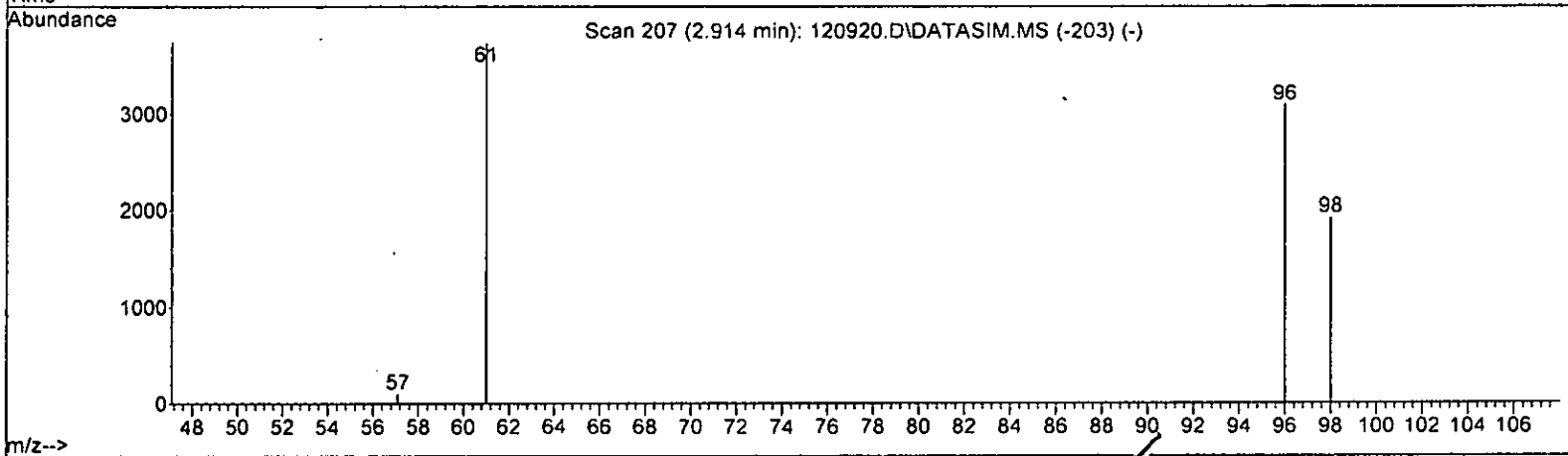
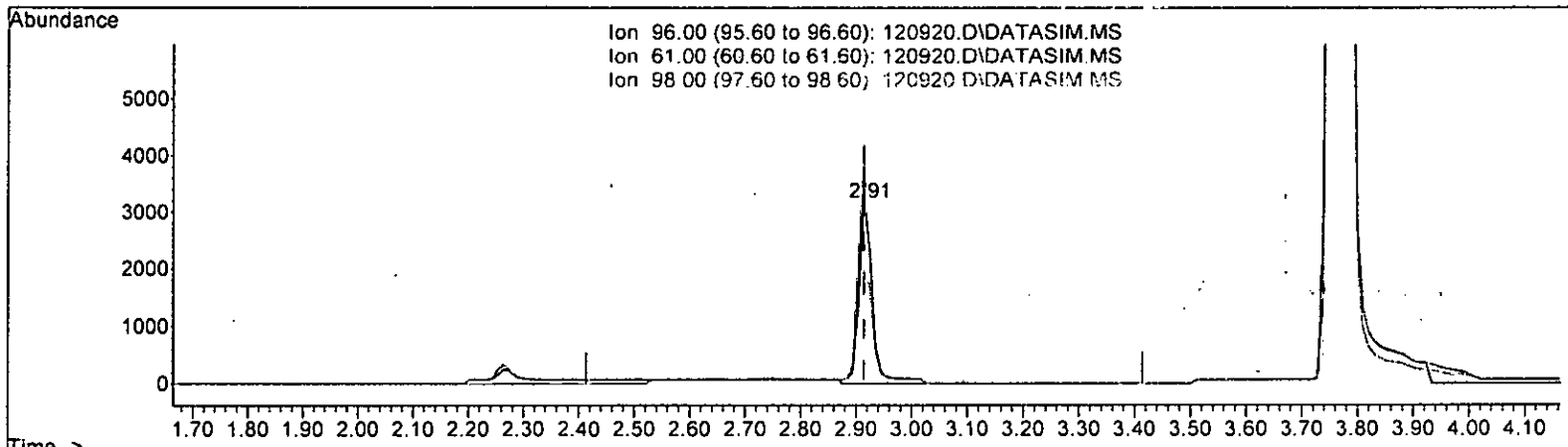
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	129.80
63.00	41.10	66.27
0.00	0.00	0.00

*lm 12/12*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120920.D  
 Acq On : 09 Dec 2022 04:17 pm  
 Operator : lm  
 Sample : 212083-05 1/10  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:35 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120920.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.914min (-0.000) 2.155 ppb

response 5301

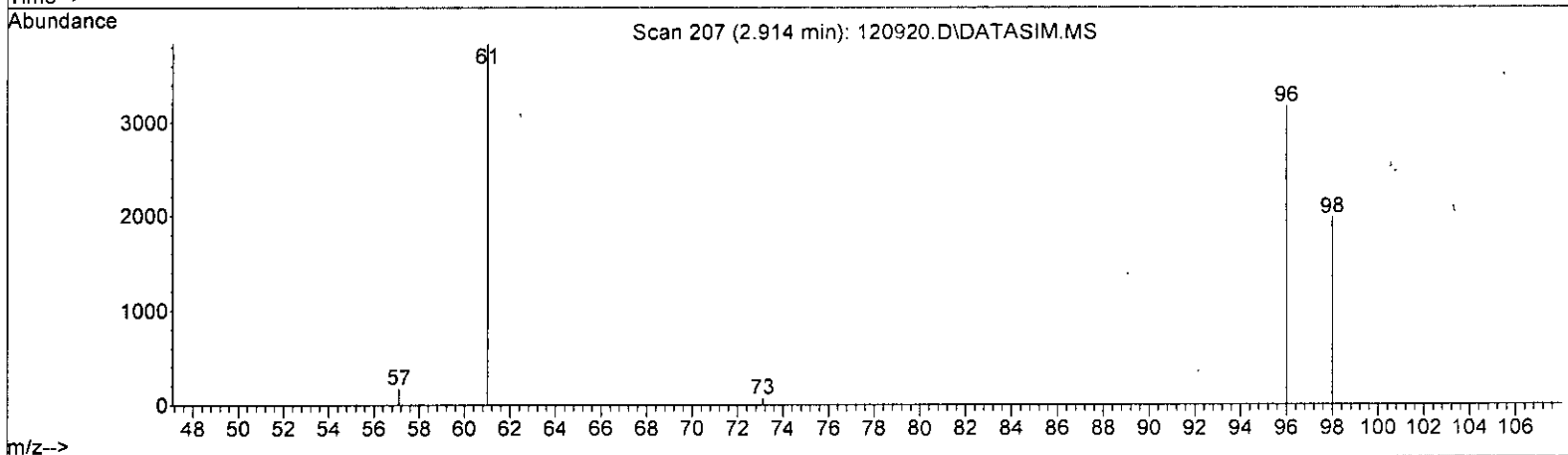
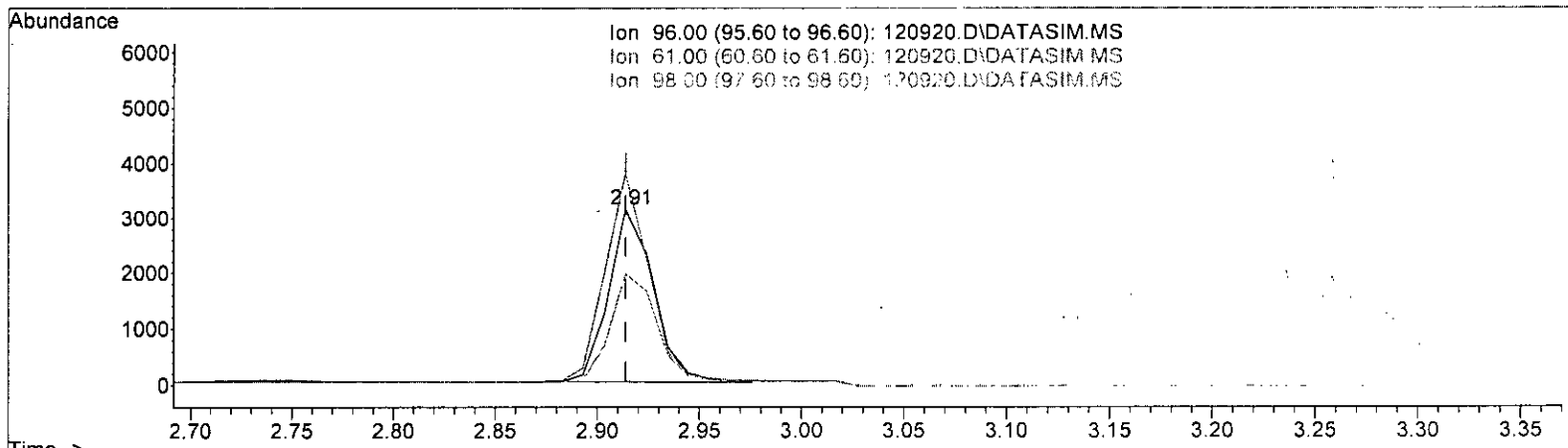
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	120.93
98.00	62.70	62.48
0.00	0.00	0.00

*m 12.12*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120920.D  
 Acq On : 09 Dec 2022 04:17 pm  
 Operator : lm  
 Sample : 212083-05 1/10  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:35 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120920.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP) *m 12.12*

2.914min (-0.000) 1.917 ppb m

response	4716
Ion	Exp% Act%
96.00	100.00 100.00
61.00	107.00 120.93
98.00	62.70 62.48
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120920.D  
 Acq On : 09 Dec 2022 04:17 pm  
 Operator : lm  
 Sample : 212083-05 1/10  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:35 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

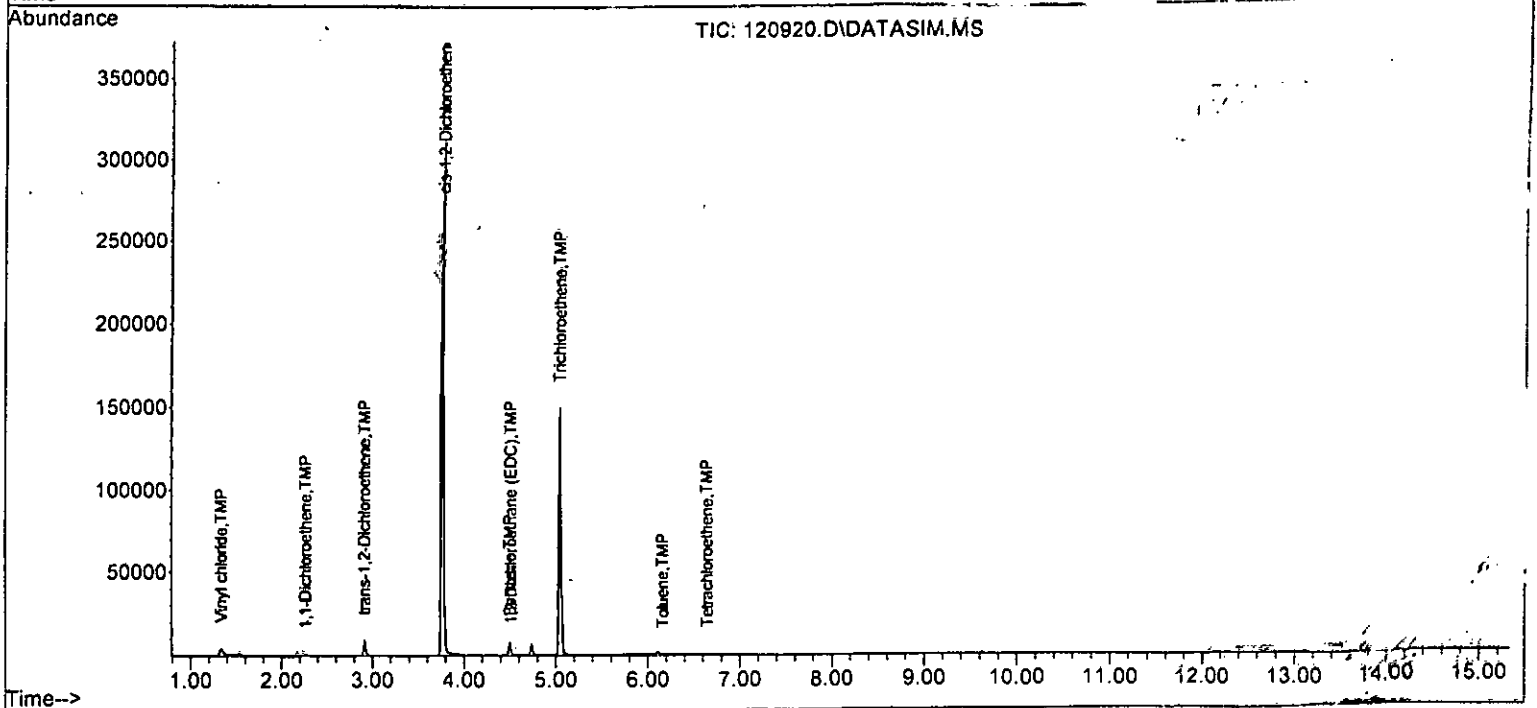
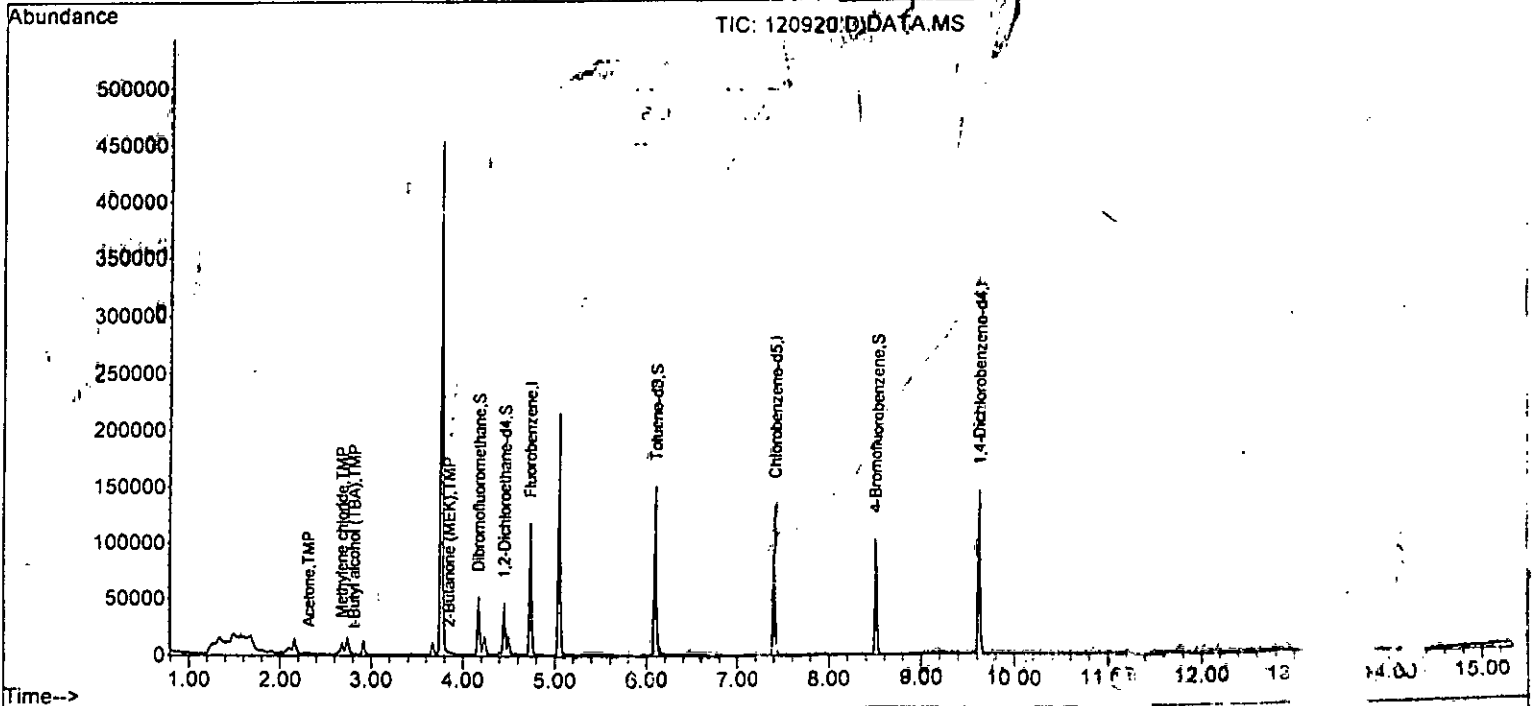
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	89660	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	66239	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	35202	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	25084	8.782	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	87.80%	
30) 1,2-Dichloroethane-d4	4.45	102	5556	10.378	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	103.80%	
35) Toluene-d8	6.10	98	83253	10.330	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	103.30%	
57) 4-Bromofluorobenzene	8.51	95	27819	13.041	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	130.40%	
Target Compounds						
						Qvalue
6] Vinyl chloride	1.34	62	8134m	2.431	ppb	
11) Acetone	2.32	58	204	2.810	ppb	# 17
12] 1,1-Dichloroethene	2.26	96	382m	0.172	ppb	
14) Methylene chloride	2.68	84	3918	1.131	ppb	88
15) t-Butyl alcohol (TBA)	2.82	59	123	0.615	ppb	72
17] trans-1,2-Dichloroethene	2.91	96	4716m	1.917	ppb	
21) 2,2-Dichloropropane	3.79	77	31	Below Cal	#	1
22] cis-1,2-Dichloroethene	3.77	96	185770	69.939	ppb	99
24) 2-Butanone (MEK)	3.85	43	105	0.714	ppb	57
26] 1,2-Dichloroethane (EDC)	4.52	62	214	0.060	ppb	96
31] Benzene	4.50	78	11131	1.557	ppb	99
32] Trichloroethene	5.05	95	59916	21.977	ppb	# 77
33) 1,2-Dichloropropane	5.22	63	33	Below Cal	#	81
40] Toluene	6.16	92	146	0.025	ppb	94
45] Tetrachloroethene	6.65	164	155	0.047	ppb	97
49] Ethylbenzene	7.54	91	83	Below Cal		94
51] m,p-Xylene	7.65	106	59	Below Cal		82
52] o-Xylene	8.02	106	27	Below Cal	#	73

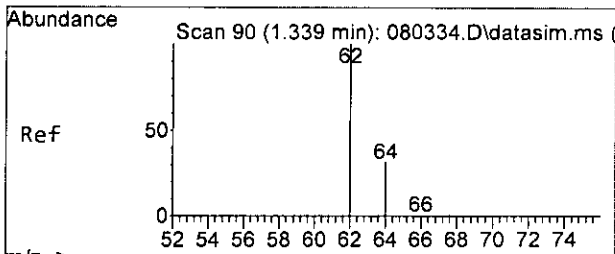
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120920.D  
 Acq On : 09 Dec 2022 04:17 pm  
 Operator : lm  
 Sample : 212083-05 1/10  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

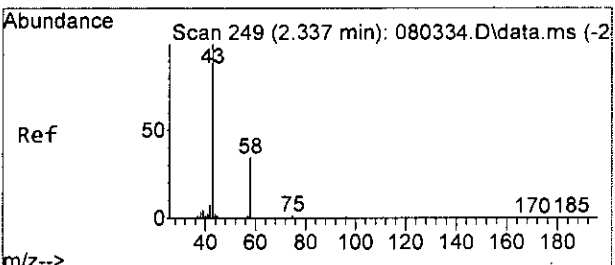
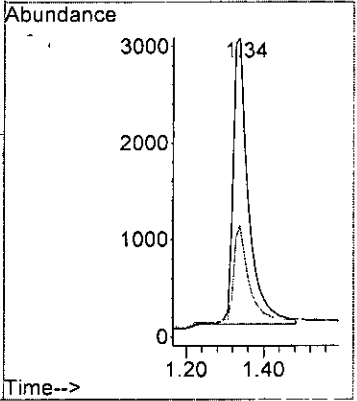
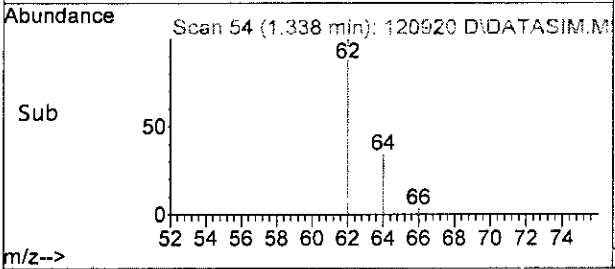
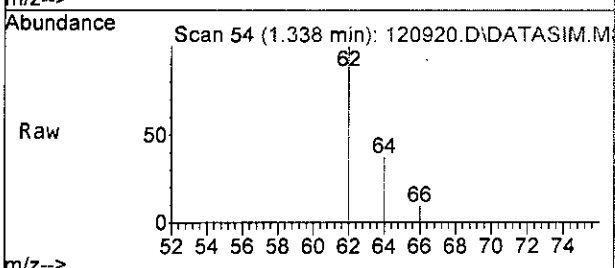
Quant Time: Dec 12 07:59:35 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M





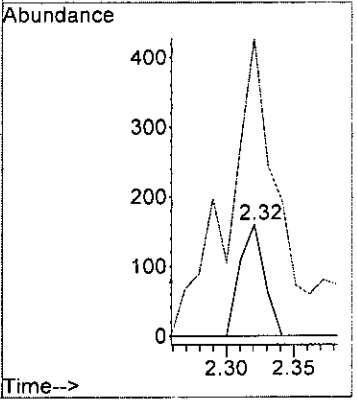
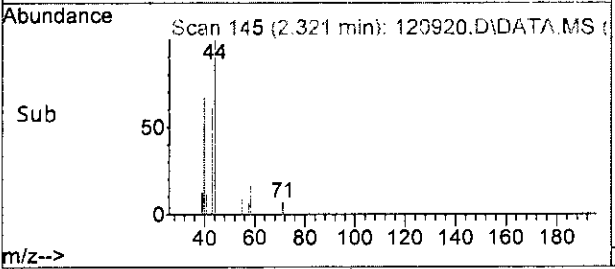
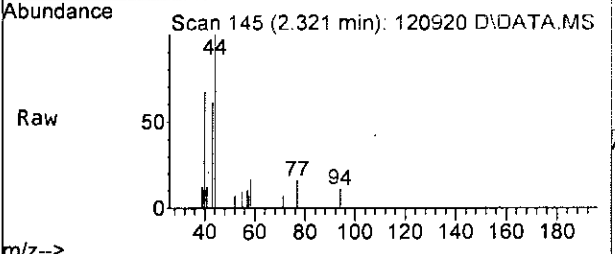
#6  
 Vinyl chloride  
 Concen: 2.431 ppb m  
 RT: 1.34 min Scan# 54  
 Delta R.T. 0.010 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

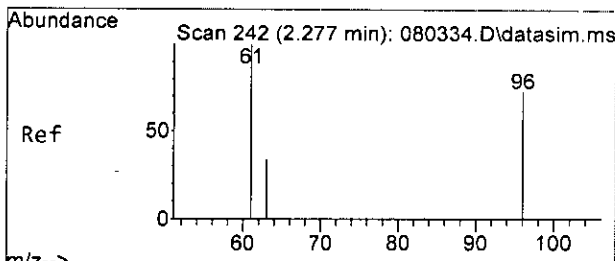
Tgt Ion: 62 Resp: 8134  
 Ion Ratio Lower Upper  
 62 100  
 64 37.0 0.2 60.2



#11  
 Acetone  
 Concen: 2.810 ppb  
 RT: 2.32 min Scan# 145  
 Delta R.T. -0.000 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

Tgt Ion: 58 Resp: 204  
 Ion Ratio Lower Upper  
 58 100  
 43 571.6 350.8 410.8#

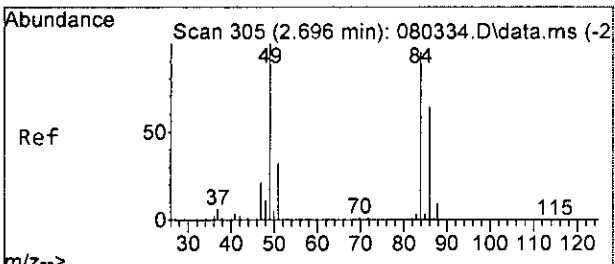
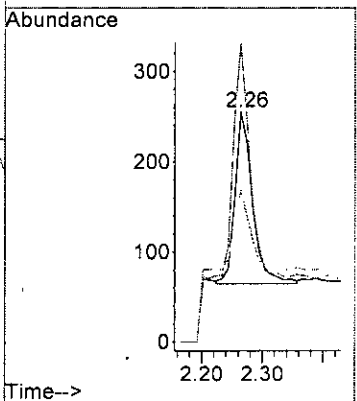
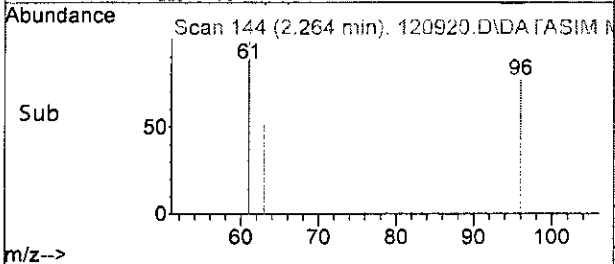
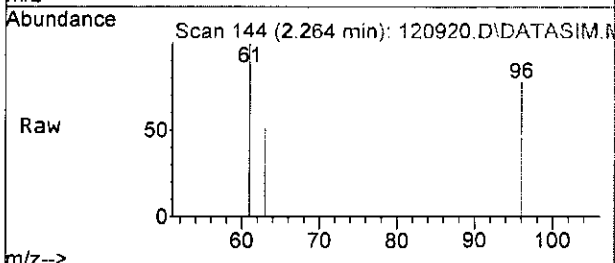




#12  
 1,1-Dichloroethene  
 Concen: 0.172 ppb m  
 RT: 2.26 min Scan# 144  
 Delta R.T. -0.000 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

Tgt Ion: 96 Resp: 382

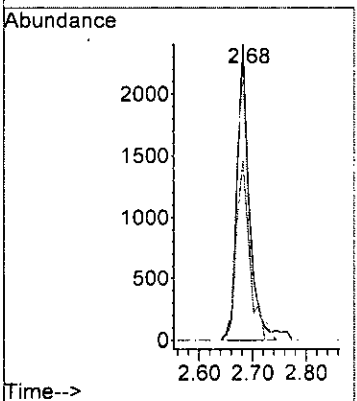
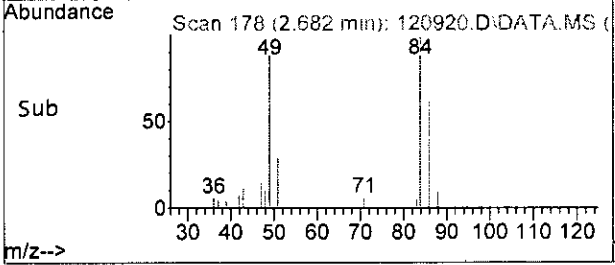
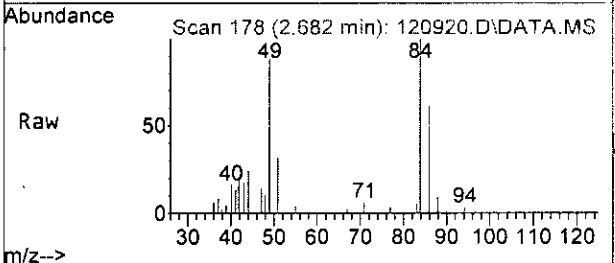
Ion	Ratio	Lower	Upper
96	100		
61	129.8	97.1	157.1
63	66.3	11.1	71.1

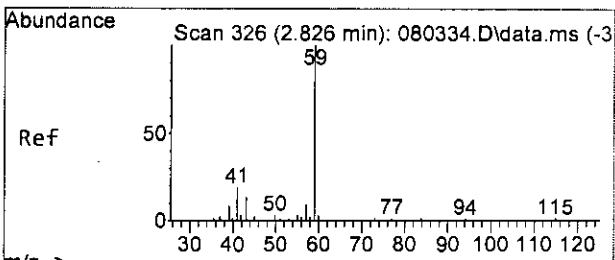


#14  
 Methylene chloride  
 Concen: 1.131 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

Tgt Ion: 84 Resp: 3918

Ion	Ratio	Lower	Upper
84	100		
86	61.1	41.2	101.2
49	87.7	69.2	129.2

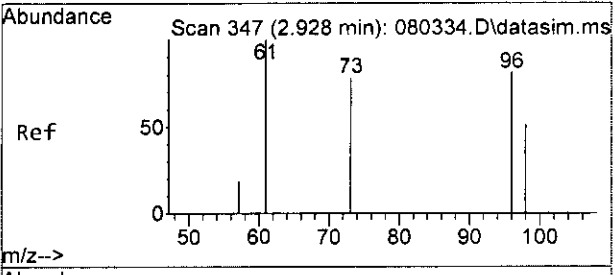
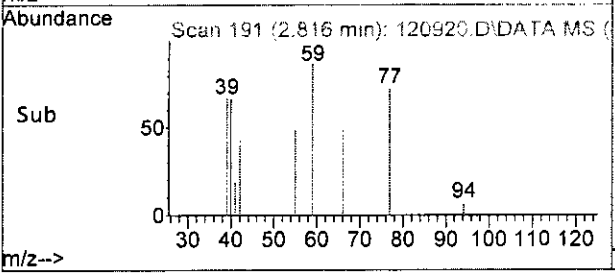
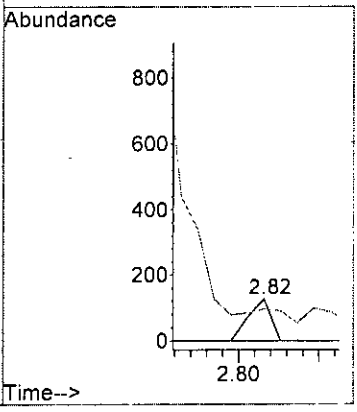
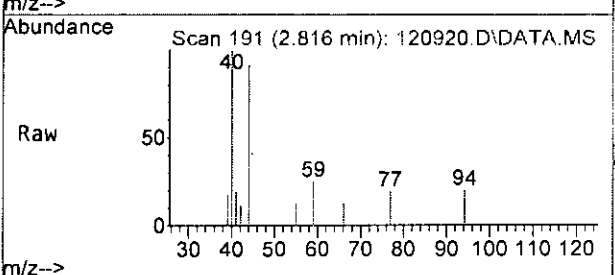




#15  
 t-Butyl alcohol (TBA)  
 Concen: 0.615 ppb  
 RT: 2.82 min Scan# 191  
 Delta R.T. 0.010 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

Tgt Ion: 59 Resp: 123

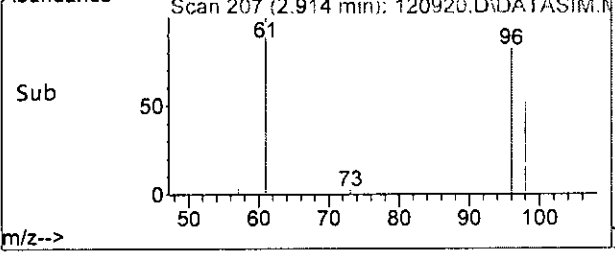
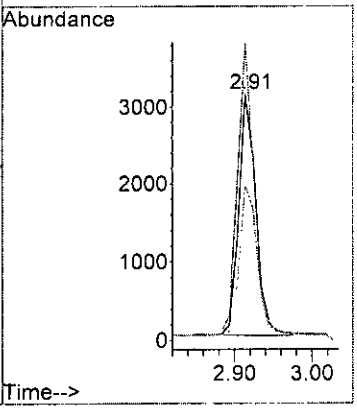
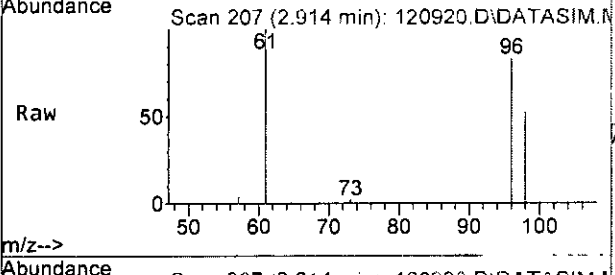
Ion	Ratio	Lower	Upper
59	100		
41	33.9	0.0	50.8



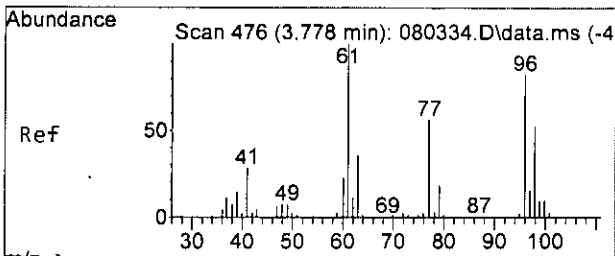
#17  
 trans-1,2-Dichloroethene  
 Concen: 1.917 ppb m  
 RT: 2.91 min Scan# 207  
 Delta R.T. -0.000 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

Tgt Ion: 96 Resp: 4716

Ion	Ratio	Lower	Upper
96	100		
61	120.9	77.0	137.0
98	62.5	32.7	92.7

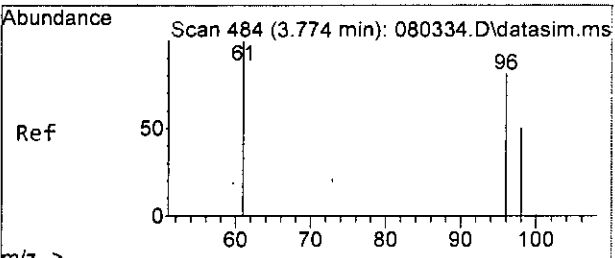
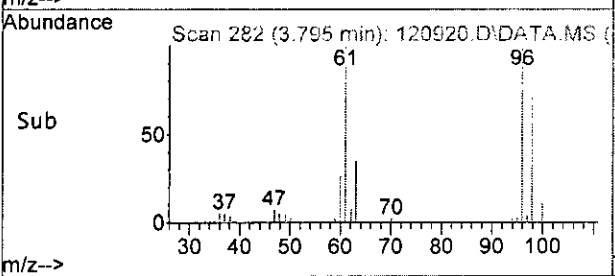
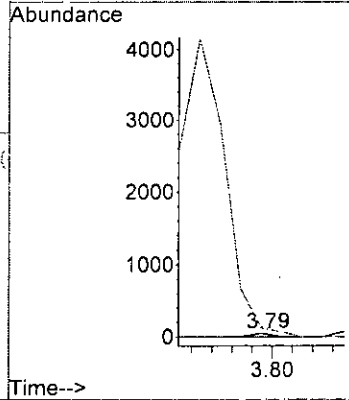
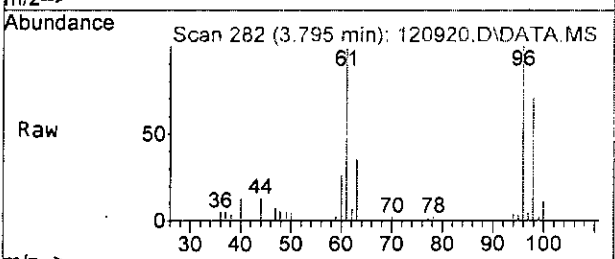






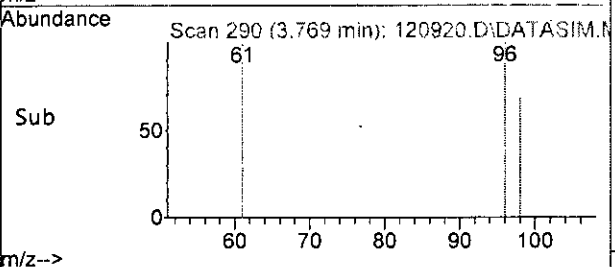
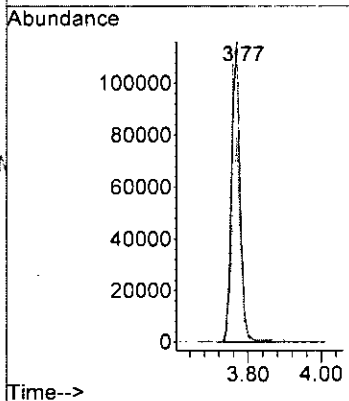
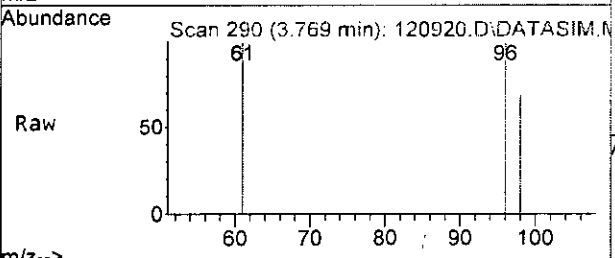
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.031 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

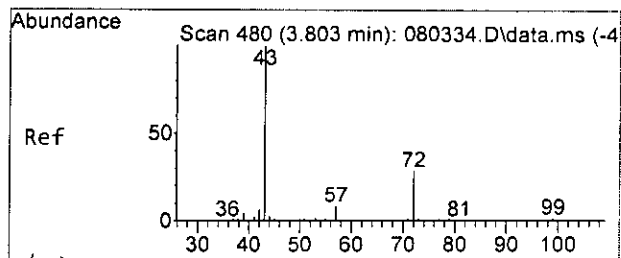
Tgt Ion: 77 Resp: 31  
 Ion Ratio Lower Upper  
 77 100  
 97 244.0 2.0 62.0#



#22  
 cis-1,2-Dichloroethene  
 Concen: 69.939 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. -0.000 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

Tgt Ion: 96 Resp: 185770  
 Ion Ratio Lower Upper  
 96 100  
 61 99.0 67.0 127.0  
 98 68.1 38.1 98.1

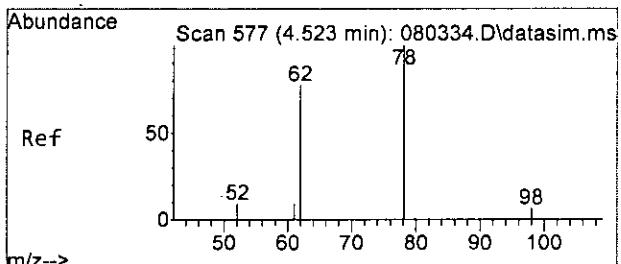
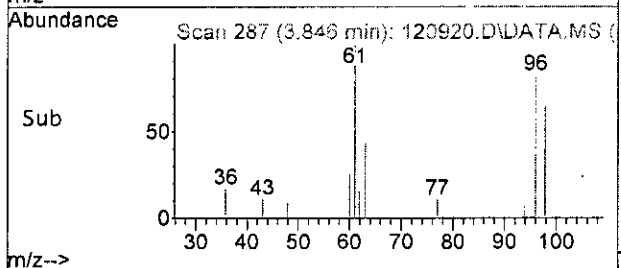
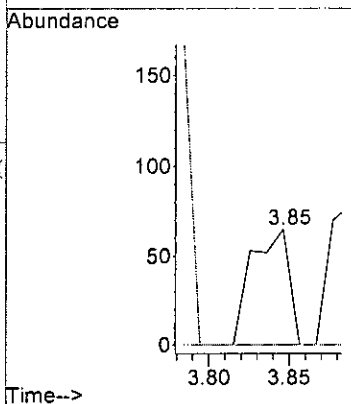
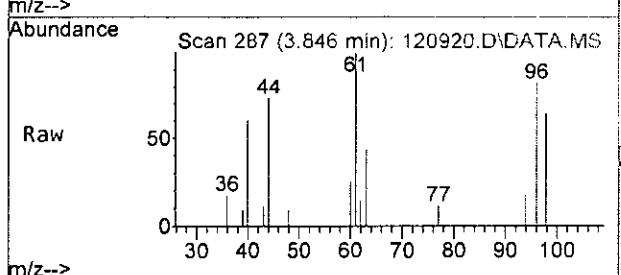




#24  
 2-Butanone (MEK)  
 Concen: 0.714 ppb  
 RT: 3.85 min Scan# 287  
 Delta R.T. 0.061 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

Tgt Ion: 43 Resp: 105

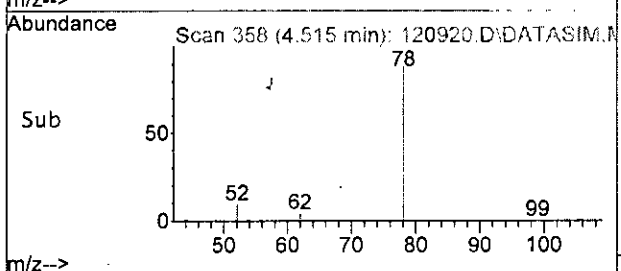
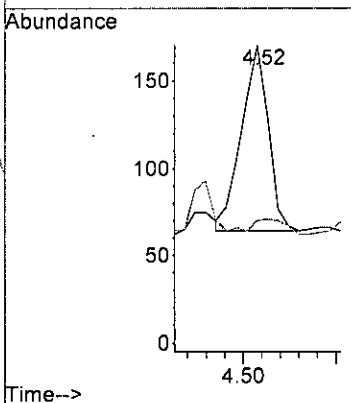
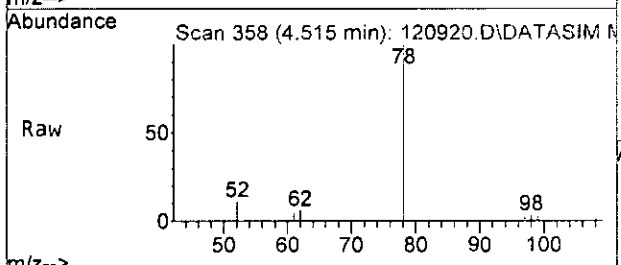
Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	54.9
57	0.0	0.0	28.8

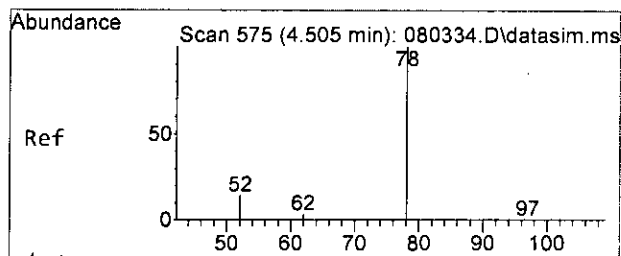


#26  
 1,2-Dichloroethane (EDC)  
 Concen: 0.060 ppb  
 RT: 4.52 min Scan# 358  
 Delta R.T. -0.001 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

Tgt Ion: 62 Resp: 214

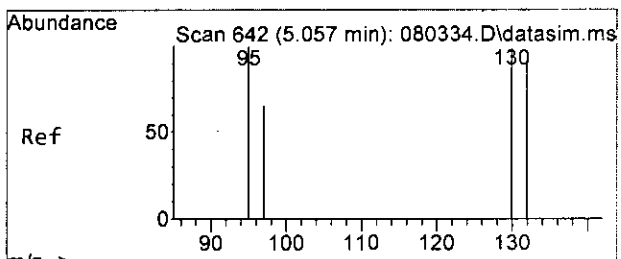
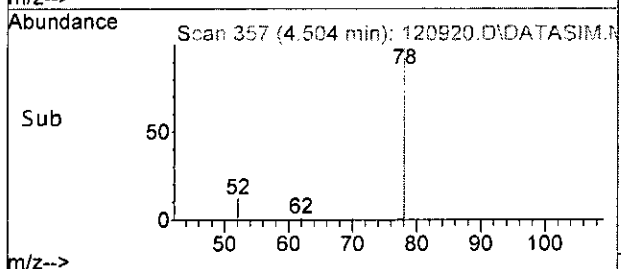
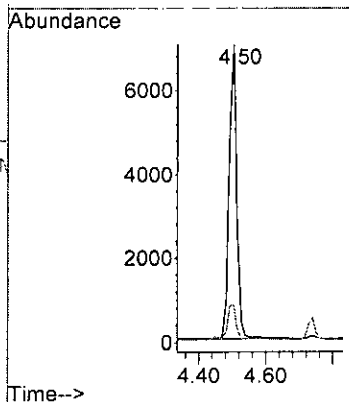
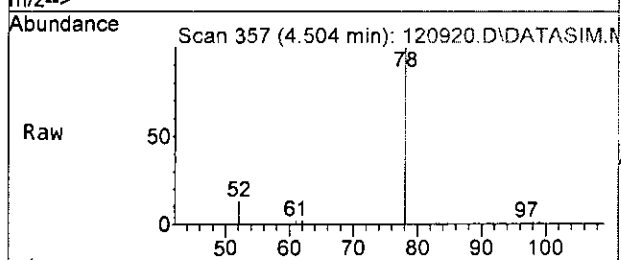
Ion	Ratio	Lower	Upper
62	100		
98	7.5	0.0	38.9





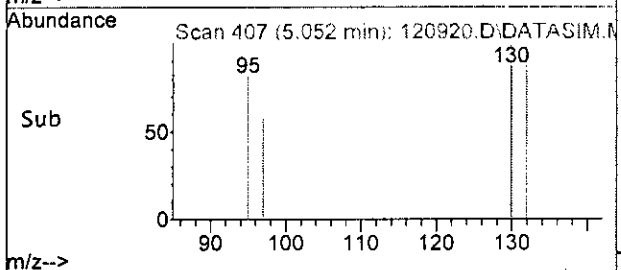
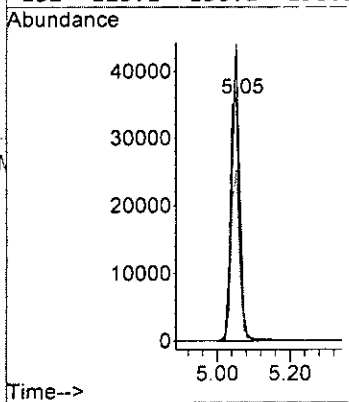
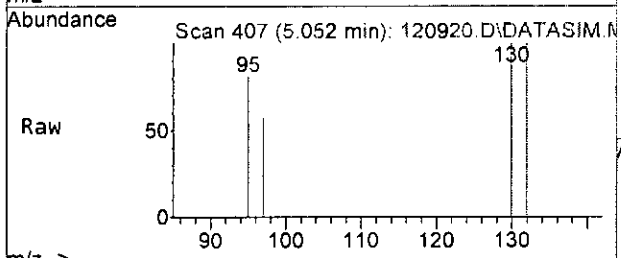
#31  
Benzene  
Concen: 1.557 ppb  
RT: 4.50 min Scan# 357  
Delta R.T. -0.001 min  
Lab File: 120920.D  
Acq: 09 Dec 2022 04:17 pm

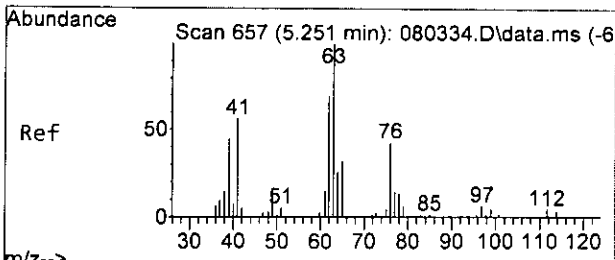
Tgt Ion: 78 Resp: 11131  
Ion Ratio Lower Upper  
78 100  
52 11.8 0.0 42.0



#32  
Trichloroethene  
Concen: 21.977 ppb  
RT: 5.05 min Scan# 407  
Delta R.T. -0.001 min  
Lab File: 120920.D  
Acq: 09 Dec 2022 04:17 pm

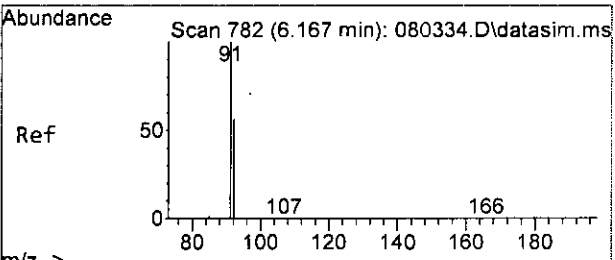
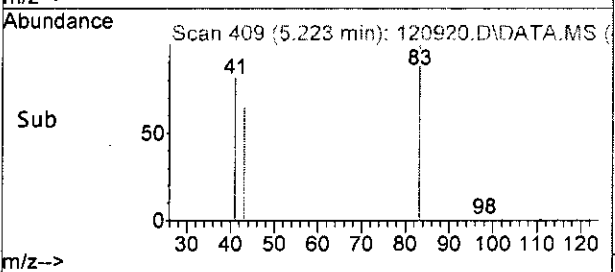
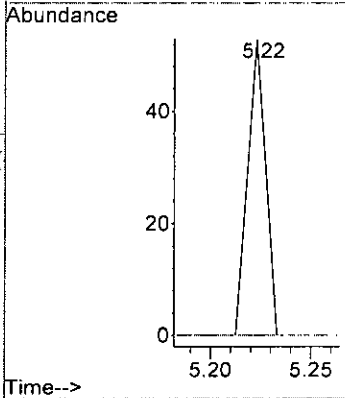
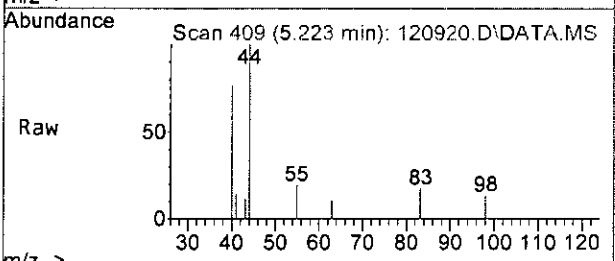
Tgt Ion: 95 Resp: 59916  
Ion Ratio Lower Upper  
95 100  
97 69.9 39.9 99.9  
130 123.1 131.0 191.0#  
132 123.2 130.1 190.1#





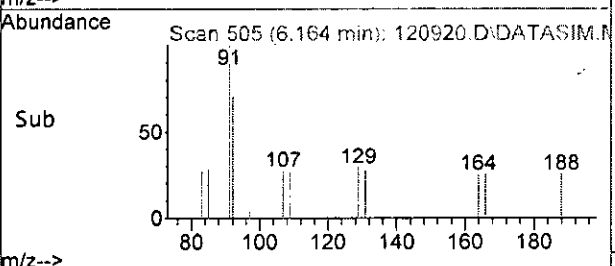
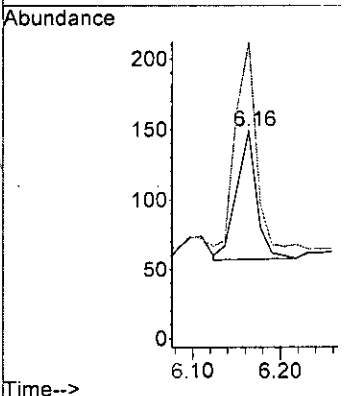
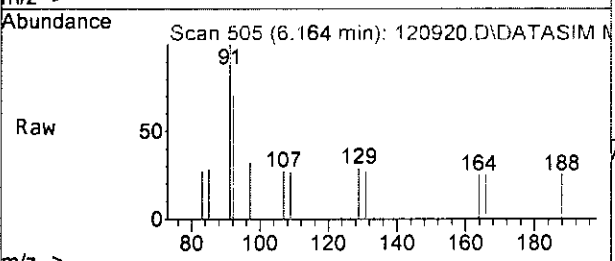
#33  
 1,2-Dichloropropane  
 Concen: Below Cal  
 RT: 5.22 min Scan# 409  
 Delta R.T. -0.021 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

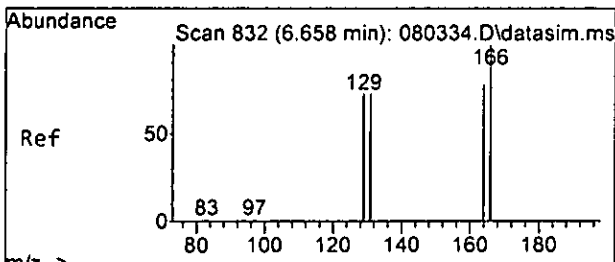
Tgt Ion: 63 Resp: 33  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 0.0 36.5



#40  
 Toluene  
 Concen: 0.025 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

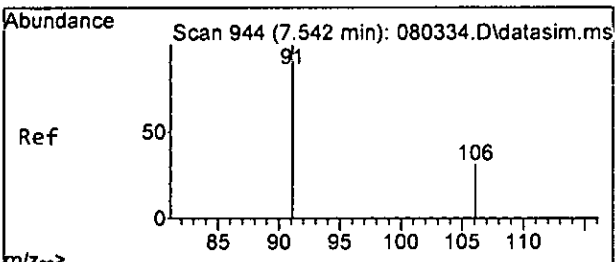
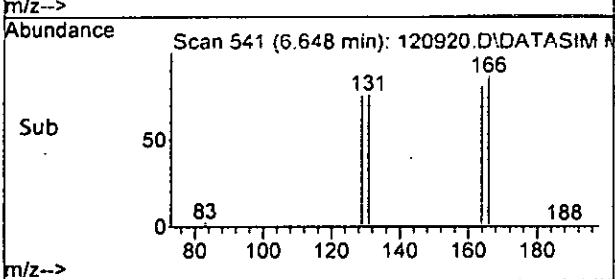
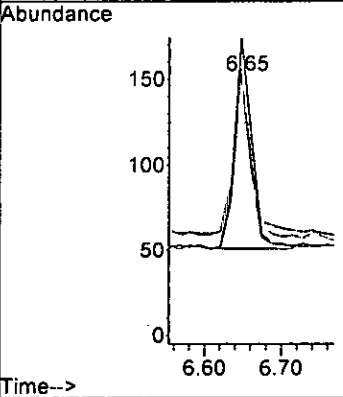
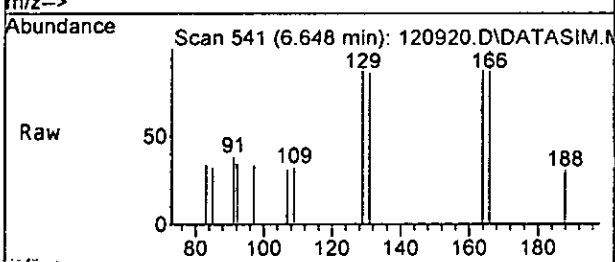
Tgt Ion: 92 Resp: 146  
 Ion Ratio Lower Upper  
 92 100  
 91 159.3 137.5 197.5





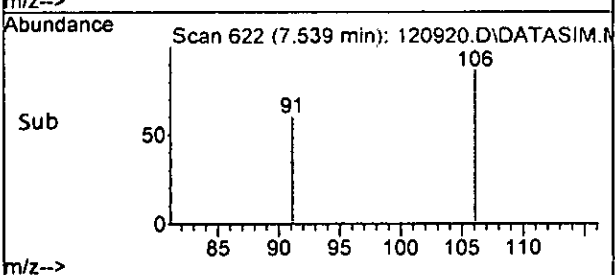
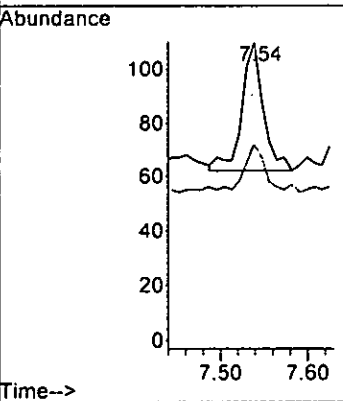
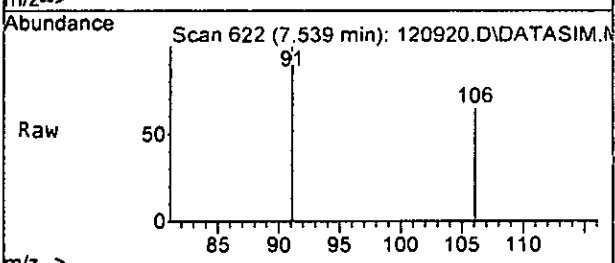
#45  
 Tetrachloroethene  
 Concen: 0.047 ppb  
 RT: 6.65 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

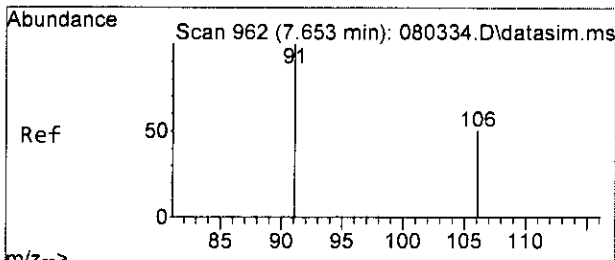
Tgt Ion	Resp	Lower	Upper
164	100		
129	94.1	60.6	120.6
131	90.1	58.0	118.0
166	121.8	95.8	155.8



#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. -0.000 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

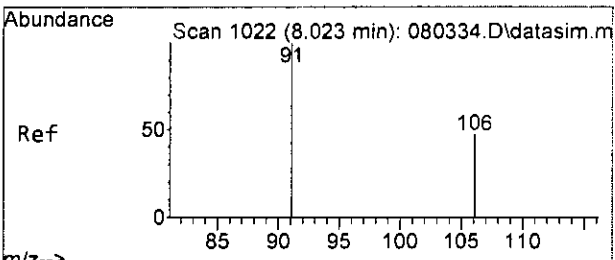
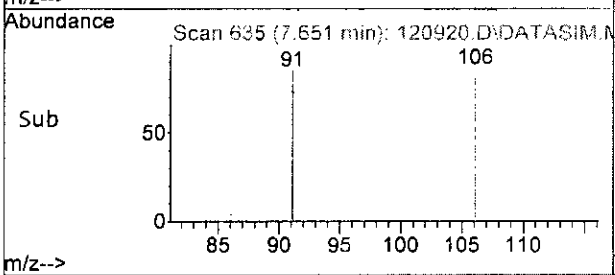
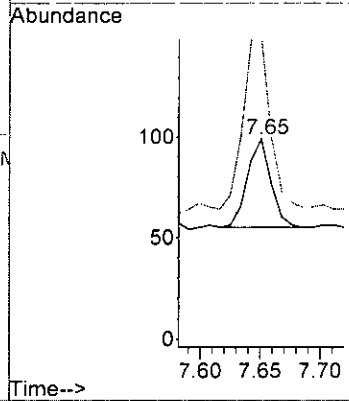
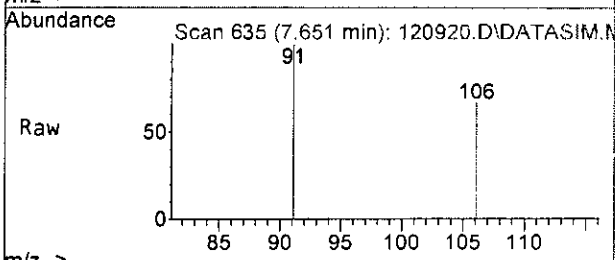
Tgt Ion	Resp	Lower	Upper
91	100		
106	33.3	7.1	67.1





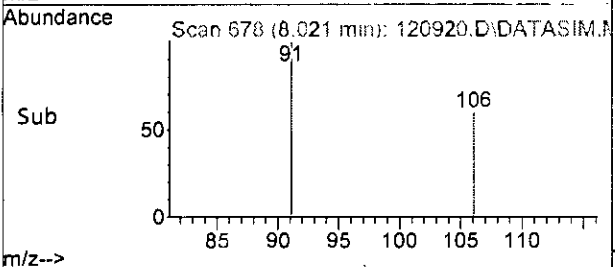
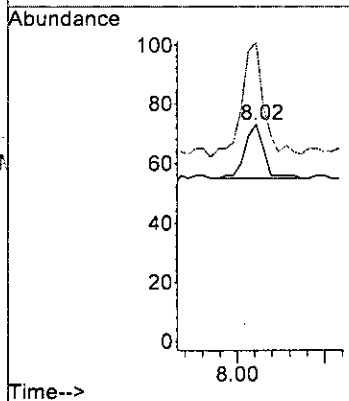
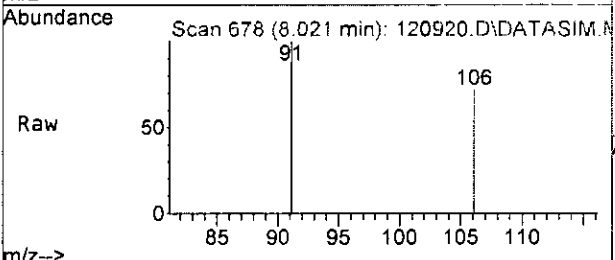
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

Tgt Ion:106 Resp: 59  
 Ion Ratio Lower Upper  
 106 100  
 91 193.2 138.1 198.1



#52  
 o-Xylene  
 Concen: Below Cal  
 RT: 8.02 min Scan# 678  
 Delta R.T. -0.001 min  
 Lab File: 120920.D  
 Acq: 09 Dec 2022 04:17 pm

Tgt Ion:106 Resp: 27  
 Ion Ratio Lower Upper  
 106 100  
 91 211.1 143.9 203.9#



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120920.D  
 Acq On : 09 Dec 2022 04:17 pm  
 Operator : lm  
 Sample : 212083-05 1/10  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:35 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	89660	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	66239	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	35202	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	25084	8.782	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	87.80%	
30) 1,2-Dichloroethane-d4	4.45	102	5556	10.378	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	103.80%	
35) Toluene-d8	6.10	98	83253	10.330	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	103.30%	
57) 4-Bromofluorobenzene	8.51	95	27819	13.041	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	130.40%	
Target Compounds							
							Qvalue
2) Ethanol	2.37	45	78	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.27	50	1756	N.D.			
6] Vinyl chloride	1.34	62	8134m	2.431	ppb		
7) Bromomethane	0.00		0	N.D. d			
8) Chloroethane	0.00		0	N.D. d			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.37	45	78	No Calib			
11) Acetone	2.32	58	204	2.810	ppb	#	17
12] 1,1-Dichloroethene	2.26	96	382m	0.172	ppb		
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.68	84	3918	1.131	ppb		88
15) t-Butyl alcohol (TBA)	2.82	59	123	0.615	ppb		72
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17] trans-1,2-Dichloroethene	2.91	96	4716m	1.917	ppb		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.79	77	31	Below Cal		#	1
22] cis-1,2-Dichloroethene	3.77	96	185770	69.939	ppb		99
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.85	43	105	0.714	ppb		57
25) t-Amyl methyl ether (T...)	4.50	73	344	N.D.			
26] 1,2-Dichloroethane (EDC)	4.52	62	214	0.060	ppb		96
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	11131	1.557	ppb		99
32] Trichloroethene	5.05	95	59916	21.977	ppb	#	77
33) 1,2-Dichloropropane	5.22	63	33	Below Cal		#	81
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120920.D  
 Acq On : 09 Dec 2022 04:17 pm  
 Operator : lm  
 Sample : 212083-05 1/10  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:35 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

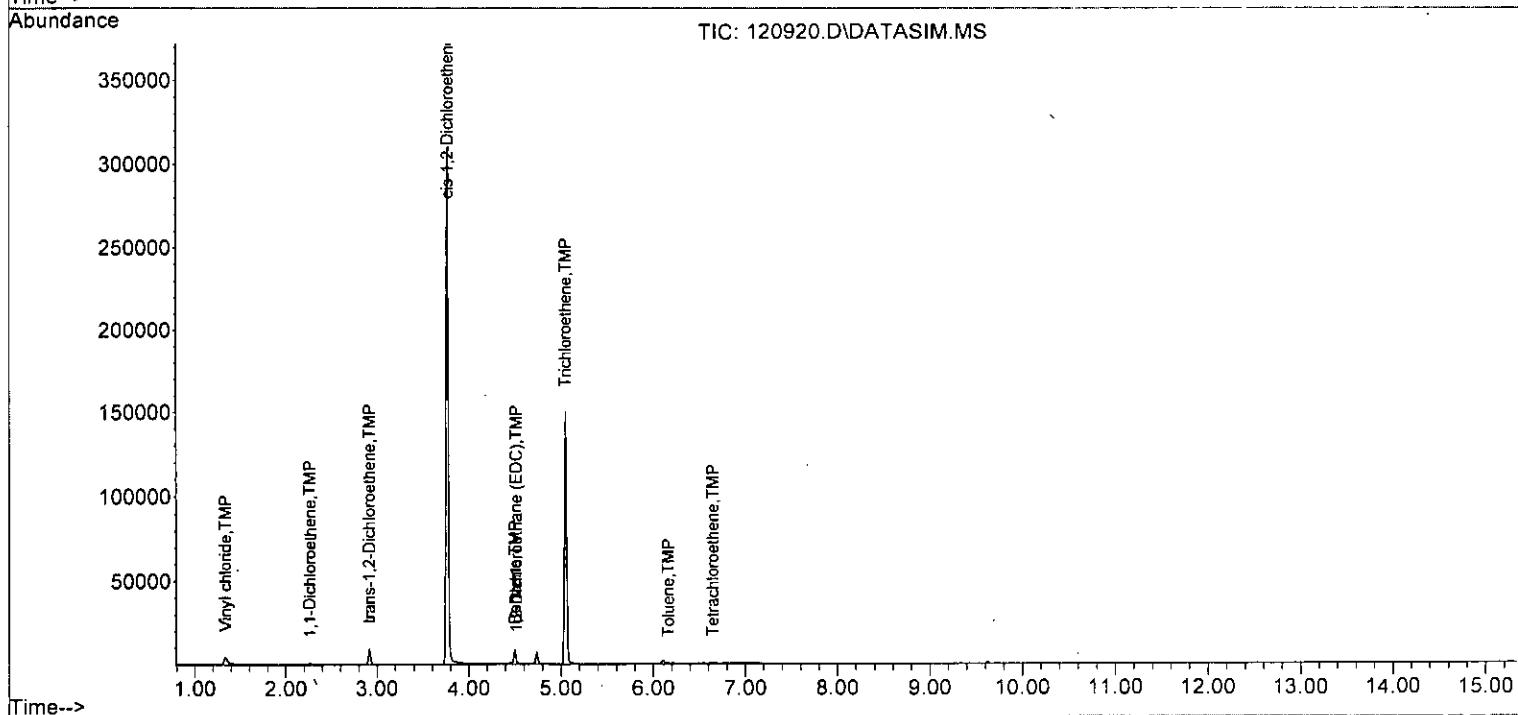
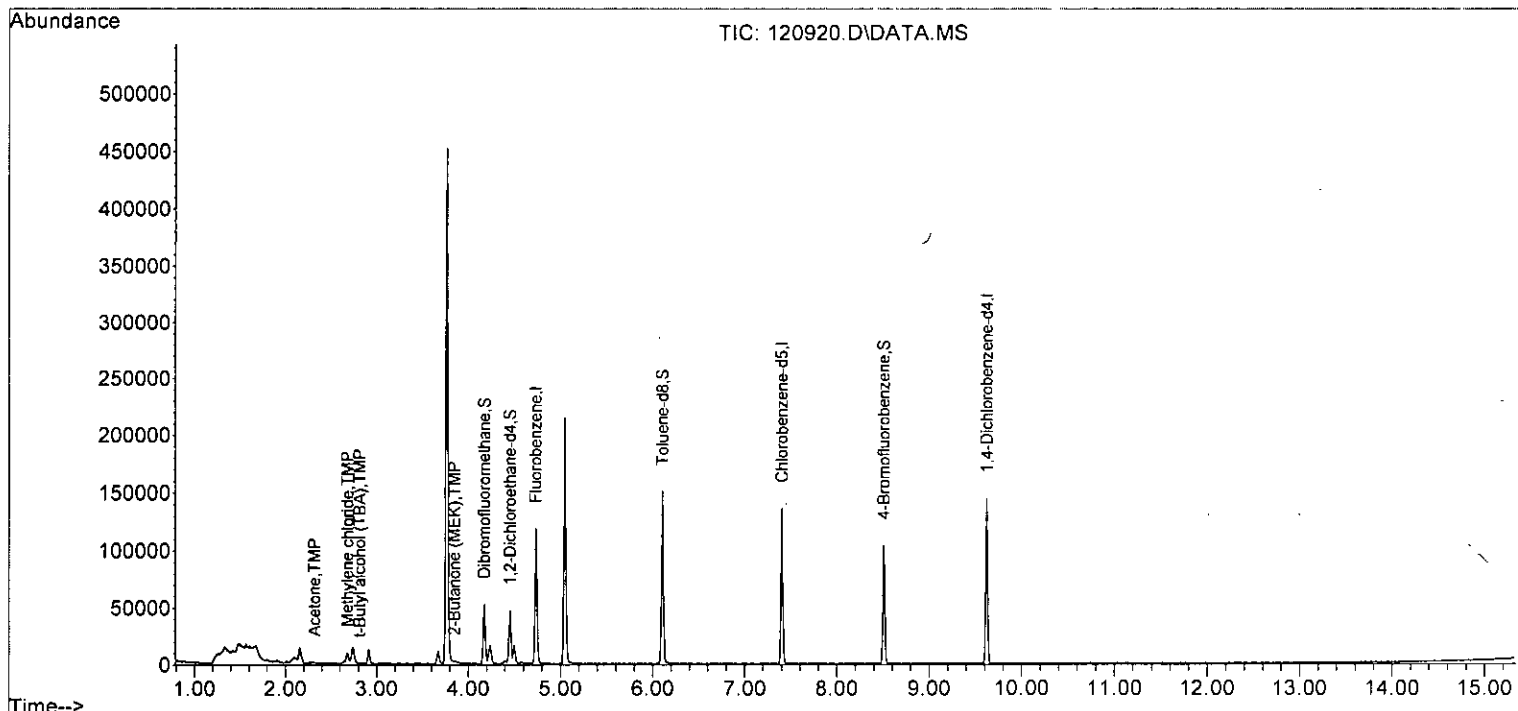
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	146	0.025	ppb	94
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D.	
43) 2-Hexanone	6.86	43	86		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.65	164	155	0.047	ppb	97
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	83	Below Cal		94
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.65	106	59	Below Cal		82
52] o-Xylene	8.02	106	27	Below Cal	#	73
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	8.36	105	54		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	0.00		0		N.D.	
64) 4-Chlorotoluene	0.00		0		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.29	105	66		N.D.	
67) sec-Butylbenzene	9.29	105	66		N.D.	
68) p-Isopropyltoluene	9.61	119	51		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D. d	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.84	128	91		N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120920.D  
 Acq On : 09 Dec 2022 04:17 pm  
 Operator : lm  
 Sample : 212083-05 1/10  
 Misc : water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

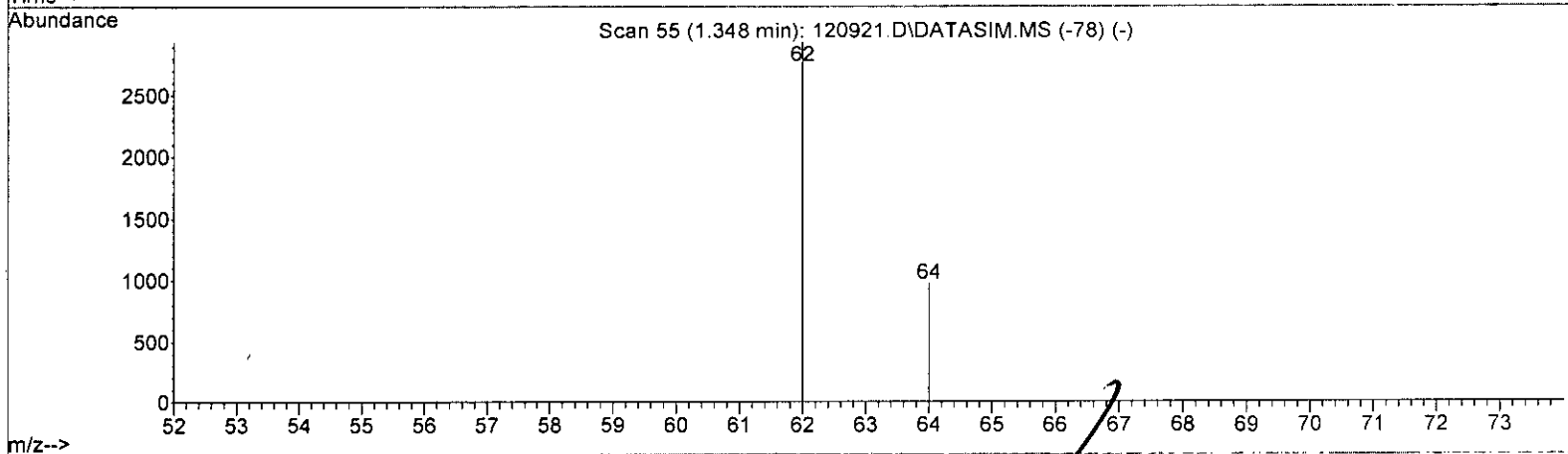
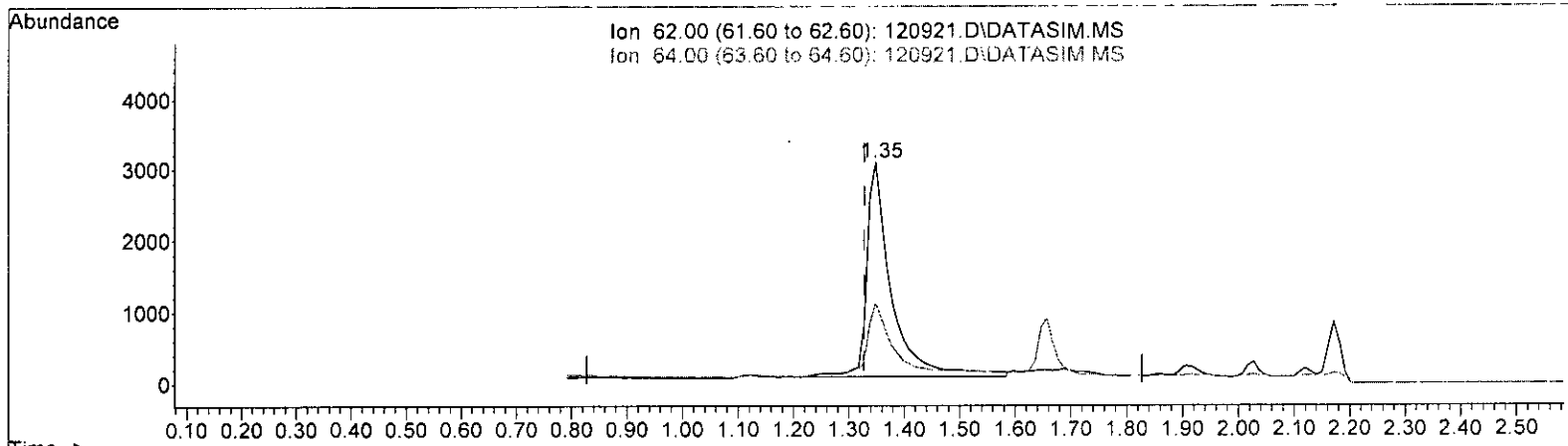
Quant Time: Dec 12 07:59:35 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120921.D  
 Acq On : 09 Dec 2022 04:40 pm  
 Operator : lm  
 Sample : 212083-06  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:39 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120921.D\DATA.MS

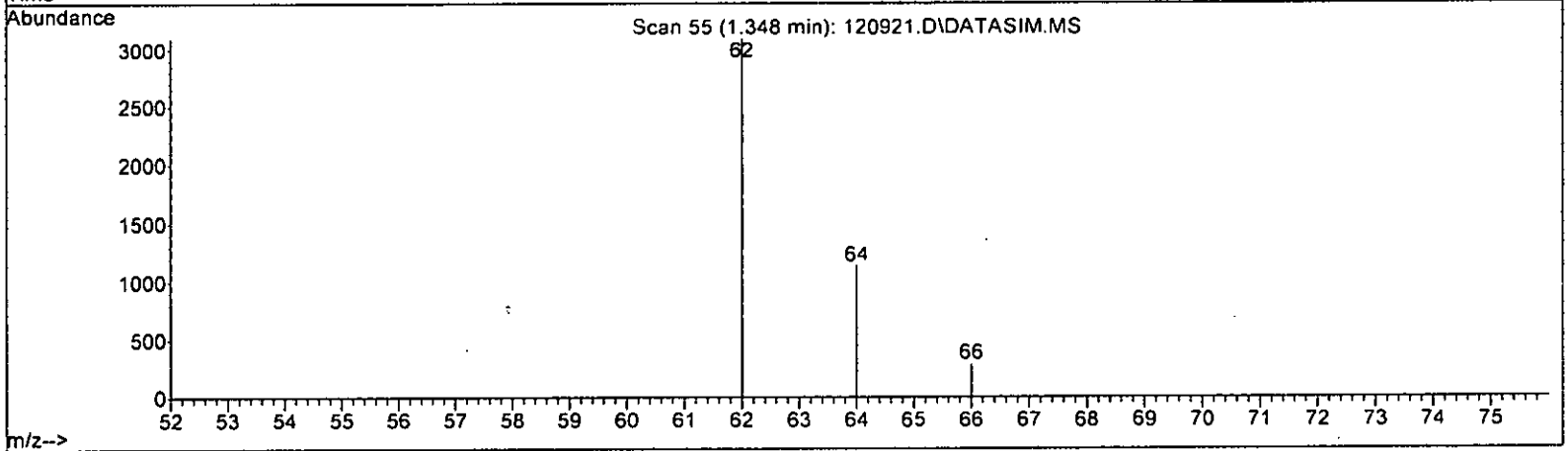
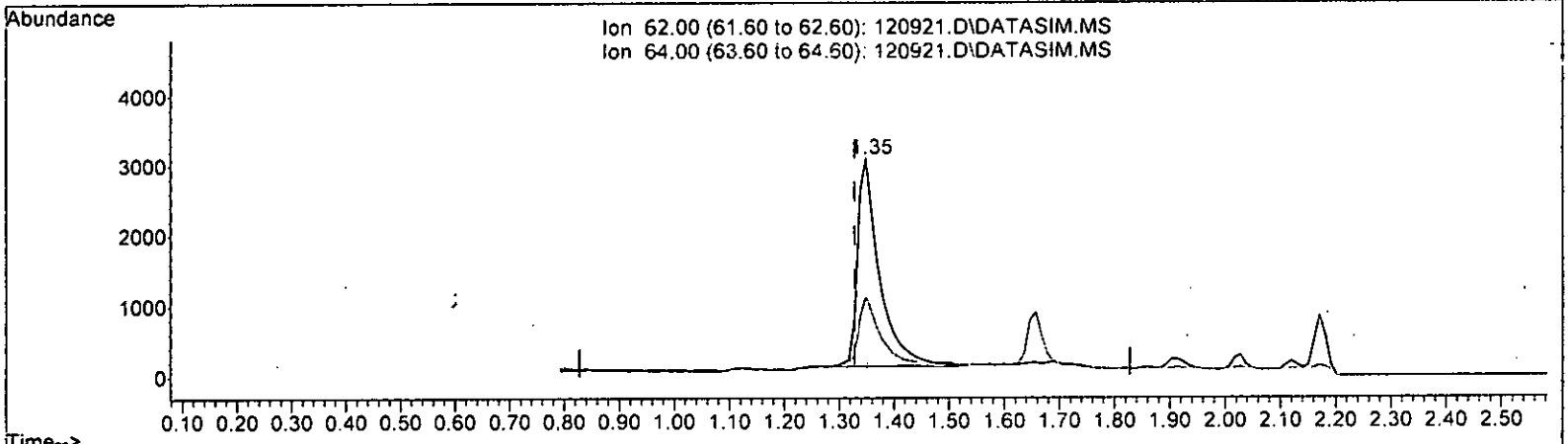
*lm 12.12*

(6) Vinyl chloride (TMP)		
1.348min (+ 0.020) 2.794 ppb		
response	9355	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	34.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120921.D  
 Acq On : 09 Dec 2022 04:40 pm  
 Operator : lm  
 Sample : 212083-06  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:39 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120921.D\DATA.MS

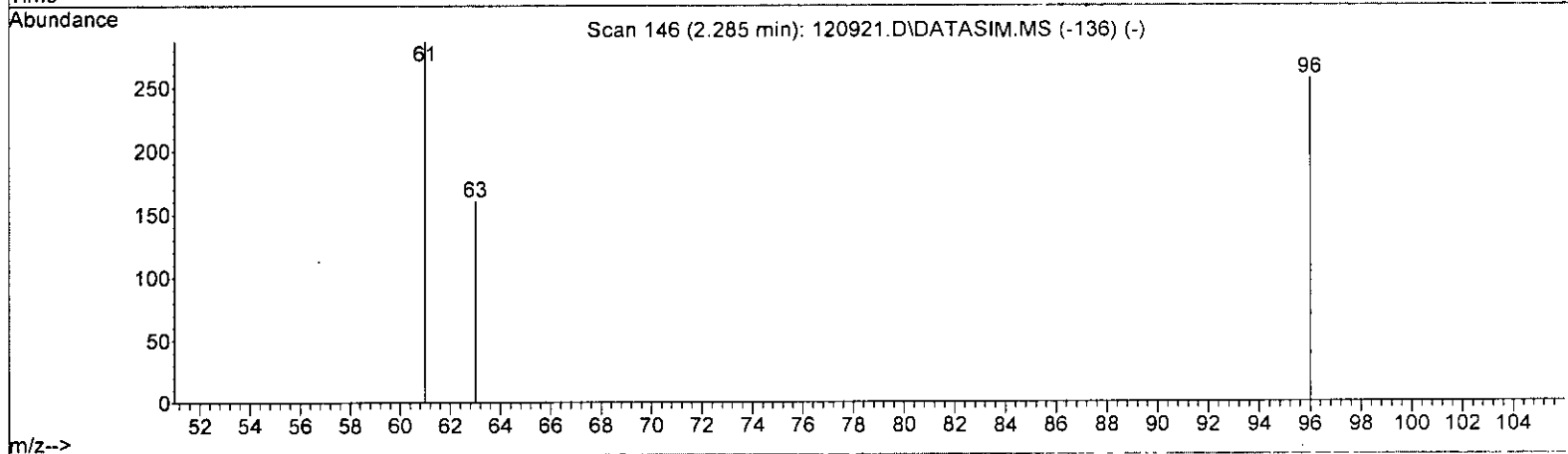
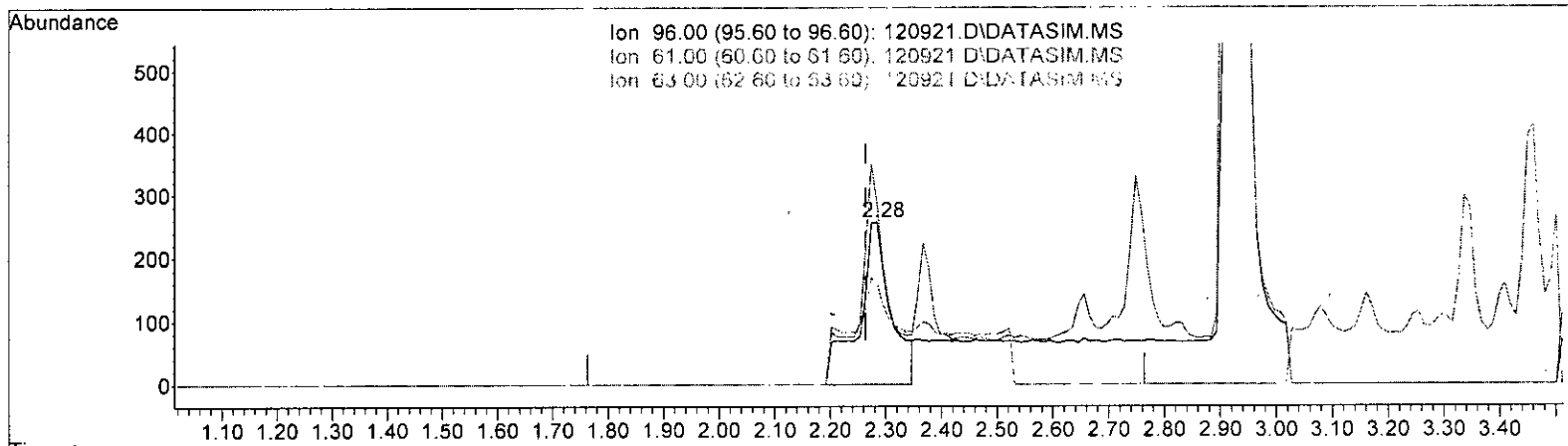
m 12.12

(6) Vinyl chloride (TMP)		
1.348min (+ 0.020)	2.455 ppb m	
response	8221	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	36.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120921.D  
 Acq On : 09 Dec 2022 04:40 pm  
 Operator : lm  
 Sample : 212083-06  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:39 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120921.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)  
 2.285min (+ 0.021) 0.468 ppb

response	1042
Ion	Exp% Act%
96.00	100.00 100.00
61.00	127.10 111.67
63.00	41.10 62.26
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120921.D  
 Acq On : 09 Dec 2022 04:40 pm  
 Operator : lm  
 Sample : 212083-06  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

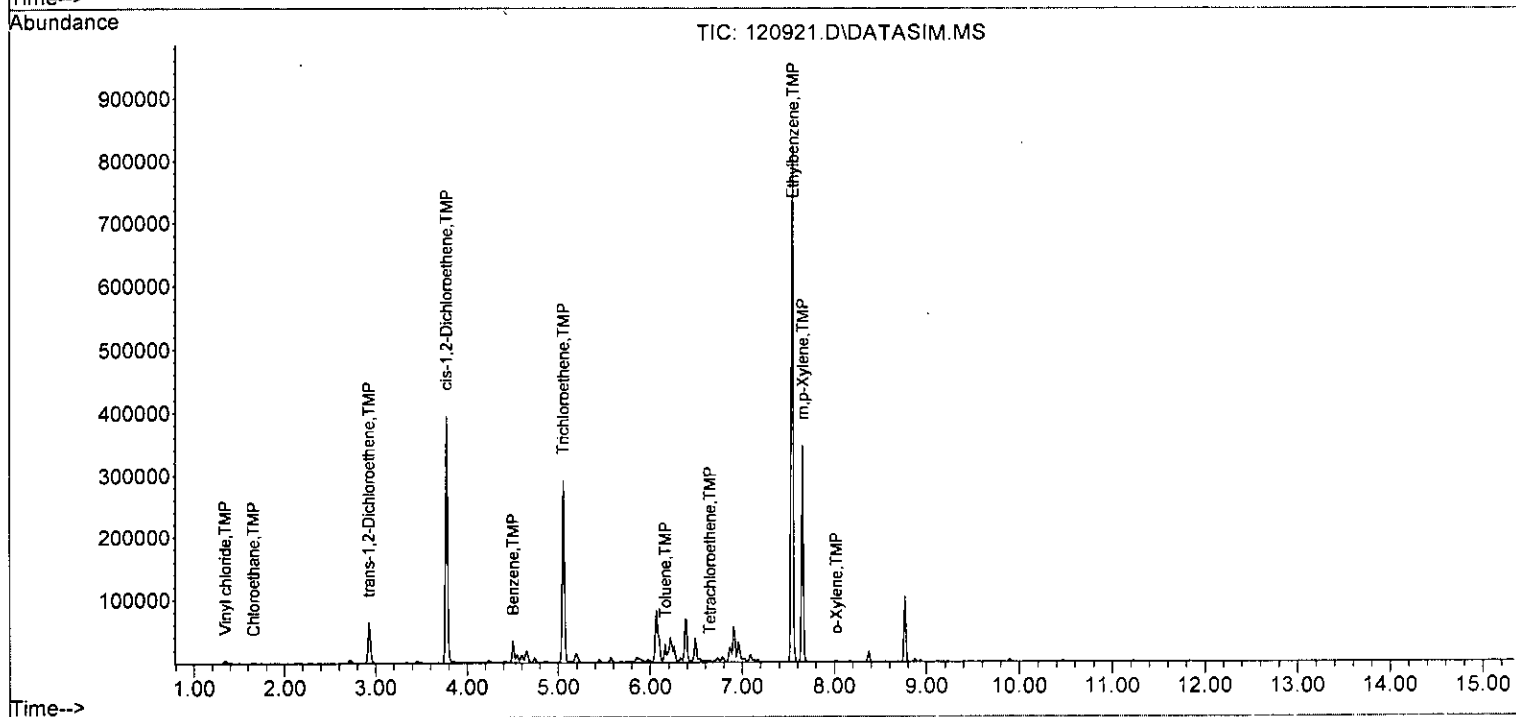
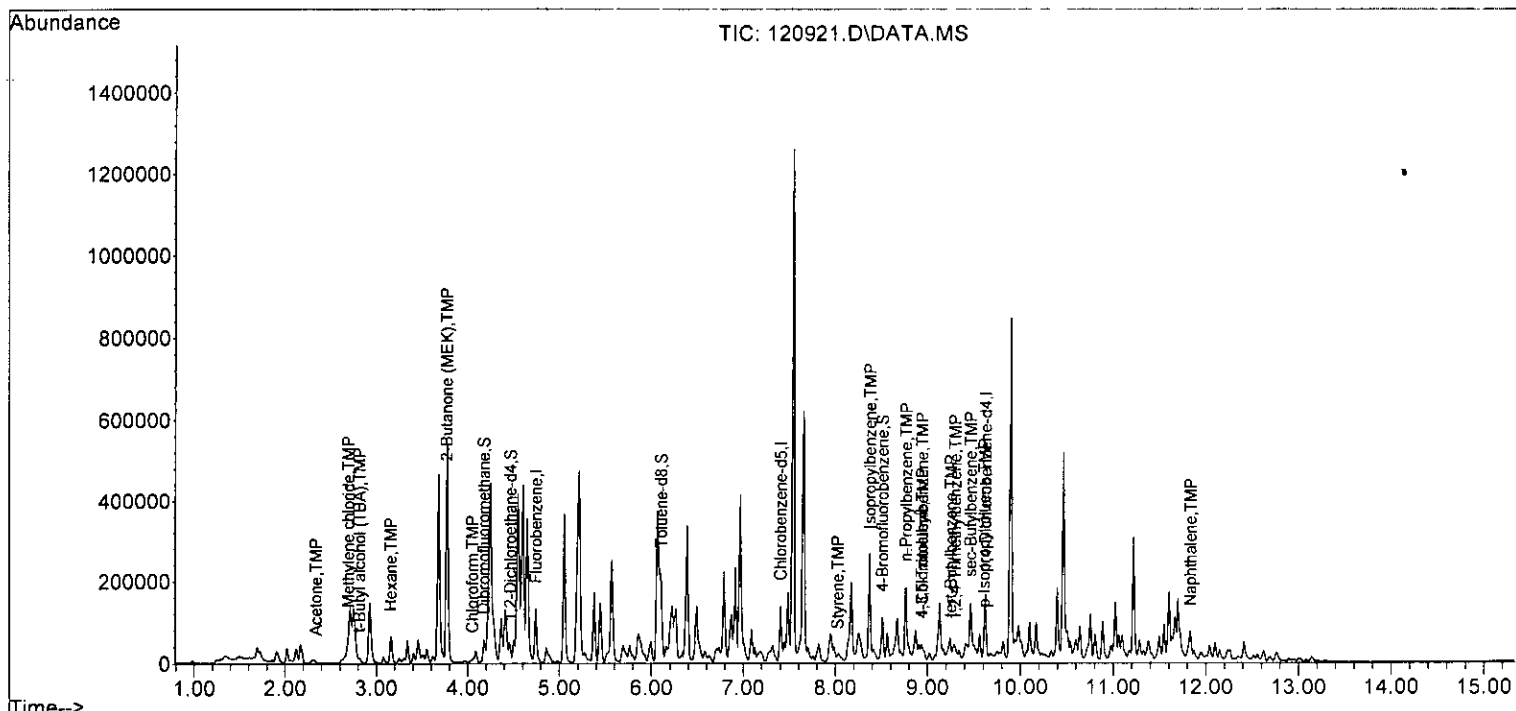
Quant Time: Dec 12 07:59:39 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

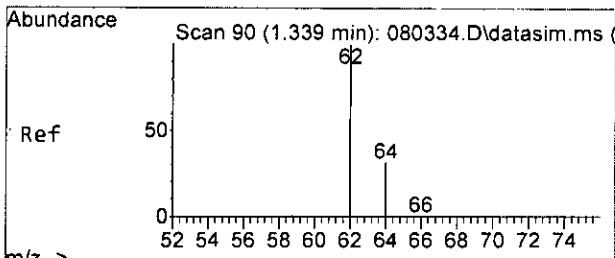
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	89733	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	65940	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	35920	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	24225	8.475	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	84.70%	
30) 1,2-Dichloroethane-d4	4.47	102	5274	9.844	ppb	0.01
Spiked Amount	10.000	Range 71 - 132	Recovery	=	98.40%	
35) Toluene-d8	6.11	98	97851	12.132	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	121.30%	
57) 4-Bromofluorobenzene	8.51	95	27016	12.412	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	124.10%	
Target Compounds						
						Qvalue
6] Vinyl chloride	1.35	62	8221m	2.455	ppb	
8] Chloroethane	1.66	64	1689	0.942	ppb	73
11) Acetone	2.34	58	696	4.895	ppb	# 1
13) Hexane	3.16	57	28155	13.217	ppb	94
14) Methylene chloride	2.69	84	7279	2.696	ppb	96
15) t-Butyl alcohol (TBA)	2.82	59	9058	45.270	ppb	55
17] trans-1,2-Dichloroethene	2.92	96	15876	6.448	ppb	92
21) 2,2-Dichloropropane	3.79	77	157	Below Cal	#	1
22] cis-1,2-Dichloroethene	3.77	96	235173	88.467	ppb	87
23) Chloroform	4.05	83	2562	0.647	ppb	# 42
24) 2-Butanone (MEK)	3.76	43	2039	2.590	ppb	# 1
31] Benzene	4.50	78	44845	6.311	ppb	97
32] Trichloroethene	5.05	95	113835	41.720	ppb	# 66
33) 1,2-Dichloropropane	5.28	63	177	Below Cal	#	81
40] Toluene	6.16	92	14034	3.056	ppb	95
45] Tetrachloroethene	6.65	164	622	0.210	ppb	96
49] Ethylbenzene	7.54	91	850851	104.418	ppb	93
51] m,p-Xylene	7.65	106	155917	43.459	ppb	# 77
52] o-Xylene	8.02	106	970	0.247	ppb	84
53) Styrene	8.03	104	798	0.143	ppb	73
54) Isopropylbenzene	8.37	105	148785	16.675	ppb	94
58) n-Propylbenzene	8.77	91	126677	15.623	ppb	85
60) 1,3,5-Trimethylbenzene	8.94	105	14066	2.133	ppb	91
64) 4-Chlorotoluene	8.94	91	1659	0.298	ppb	# 29
65) tert-Butylbenzene	9.25	119	6859	0.981	ppb	87
66) 1,2,4-Trimethylbenzene	9.30	105	10134	1.428	ppb	94
67) sec-Butylbenzene	9.46	105	45700	5.311	ppb	90
68) p-Isopropyltoluene	9.61	119	4538	0.526	ppb	89
75) Naphthalene	11.83	128	31270	4.491	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120921.D  
 Acq On : 09 Dec 2022 04:40 pm  
 Operator : lm  
 Sample : 212083-06  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

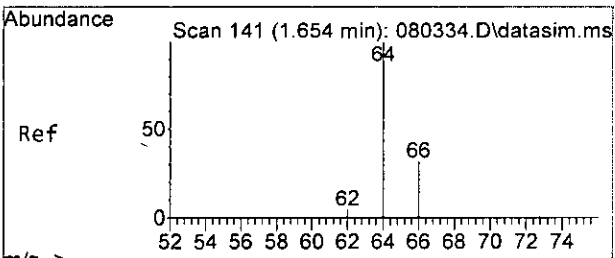
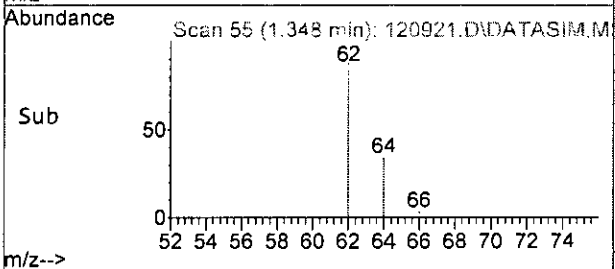
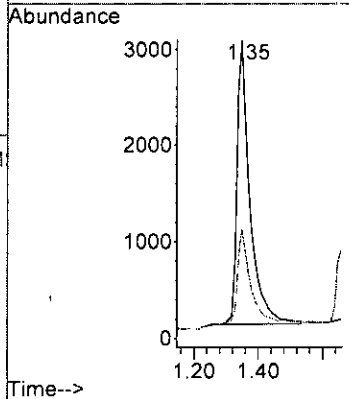
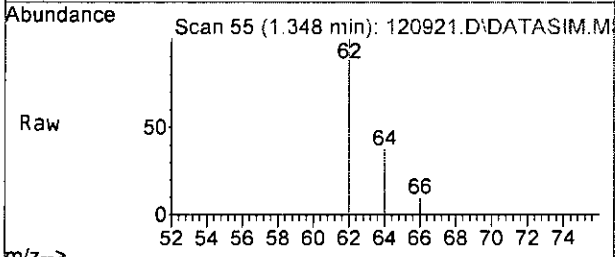
Quant Time: Dec 12 07:59:39 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M





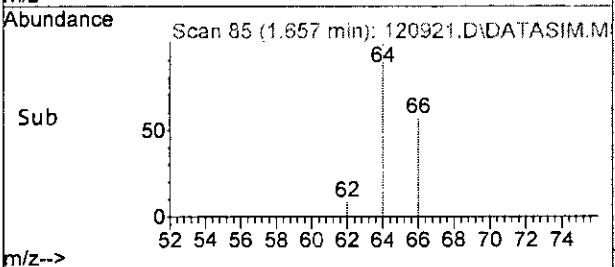
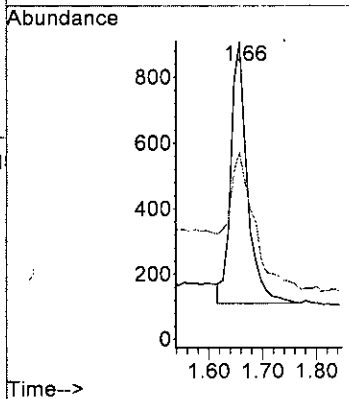
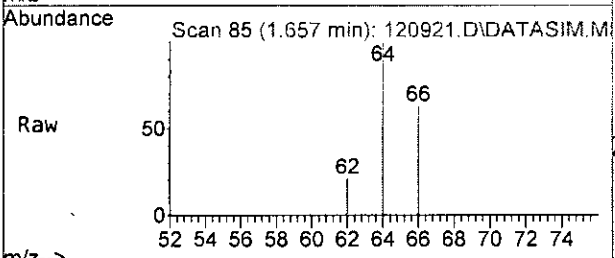
#6  
 Vinyl chloride  
 Concen: 2.455 ppb m  
 RT: 1.35 min Scan# 55  
 Delta R.T. 0.020 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

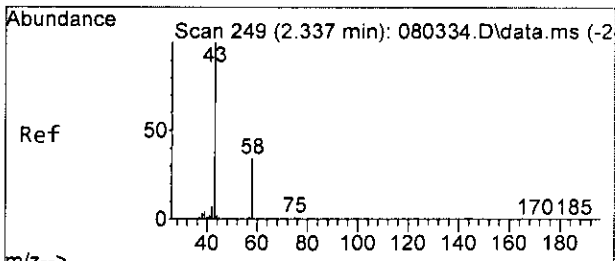
Tgt Ion: 62 Resp: 8221  
 Ion Ratio Lower Upper  
 62 100  
 64 36.6 0.2 60.2



#8  
 Chloroethane  
 Concen: 0.942 ppb  
 RT: 1.66 min Scan# 85  
 Delta R.T. 0.020 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

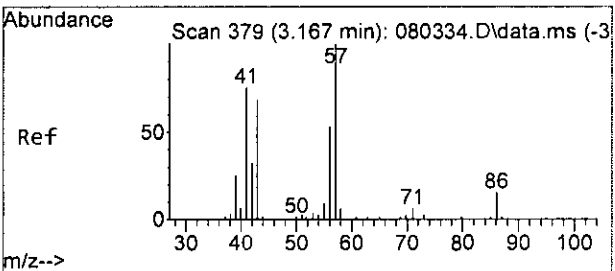
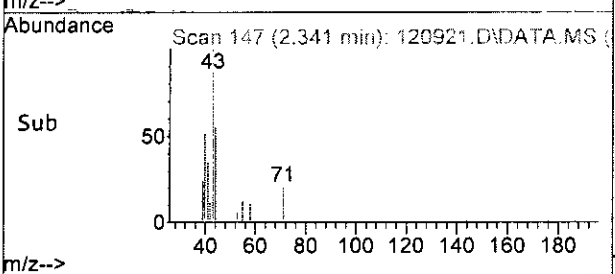
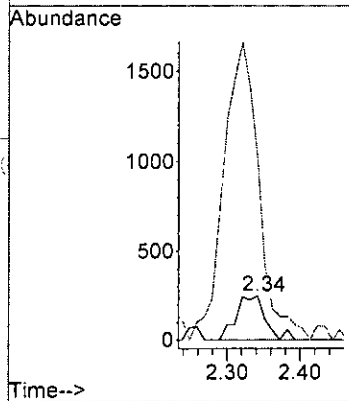
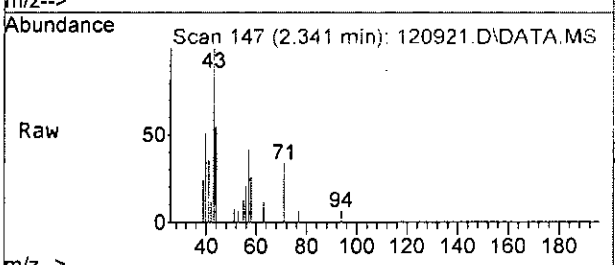
Tgt Ion: 64 Resp: 1689  
 Ion Ratio Lower Upper  
 64 100  
 66 52.5 6.4 66.4





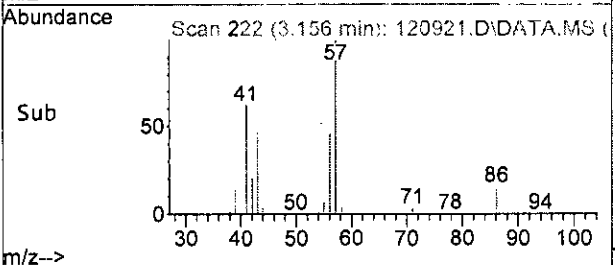
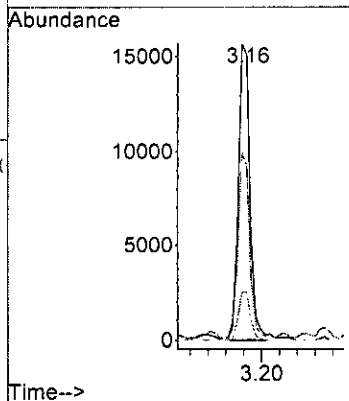
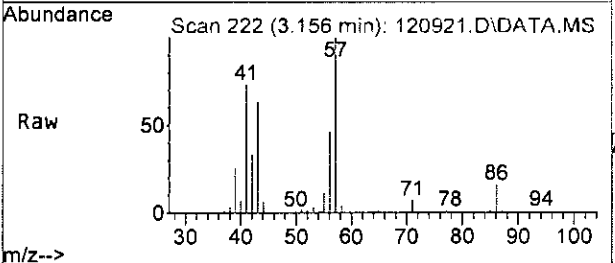
#11  
 Acetone  
 Concen: 4.895 ppb  
 RT: 2.34 min Scan# 147  
 Delta R.T. 0.020 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

Tgt Ion: 58 Resp: 696  
 Ion Ratio Lower Upper  
 58 100  
 43 802.2 350.8 410.8#

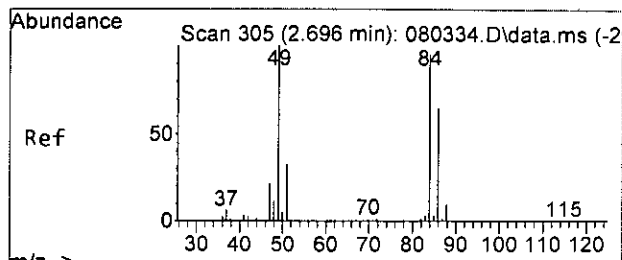


#13  
 Hexane  
 Concen: 13.217 ppb  
 RT: 3.16 min Scan# 222  
 Delta R.T. -0.001 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

Tgt Ion: 57 Resp: 28155  
 Ion Ratio Lower Upper  
 57 100  
 43 62.1 28.8 88.8  
 86 15.9 0.0 51.0

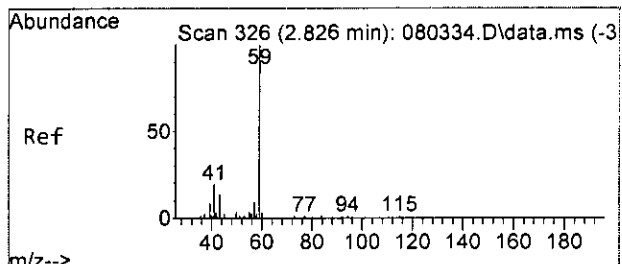
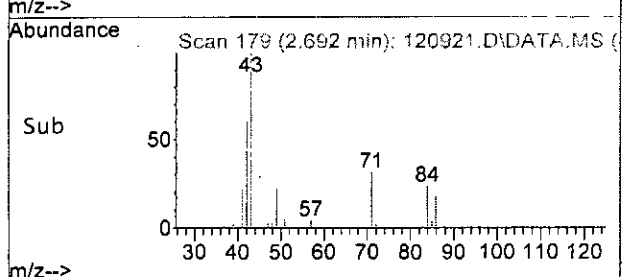
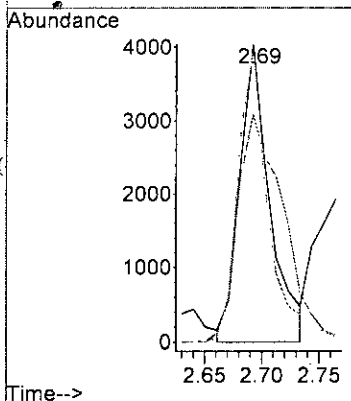
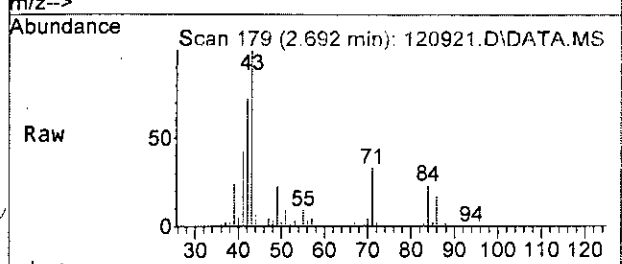






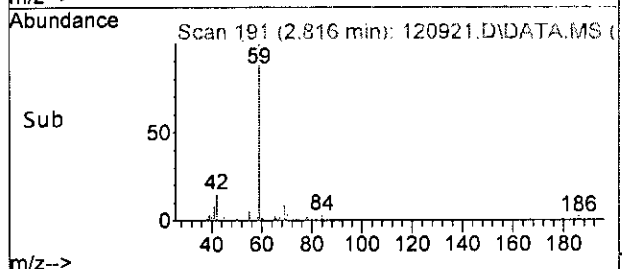
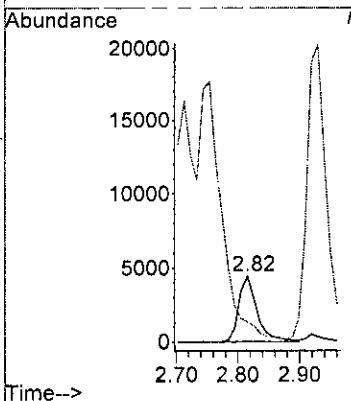
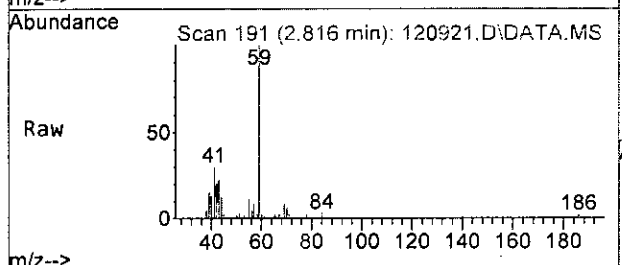
#14  
 Methylene chloride  
 Concen: 2.696 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

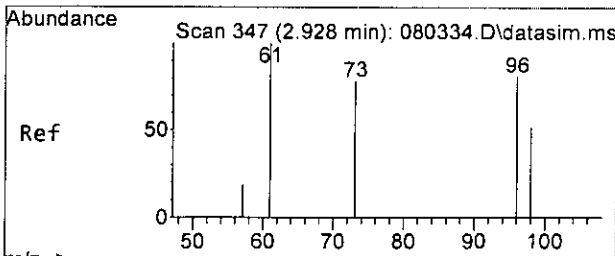
Tgt Ion	Resp	Lower	Upper
84	7279		
86	76.4	41.2	101.2
49	101.1	69.2	129.2



#15  
 t-Butyl alcohol (TBA)  
 Concen: 45.270 ppb  
 RT: 2.82 min Scan# 191  
 Delta R.T. 0.010 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

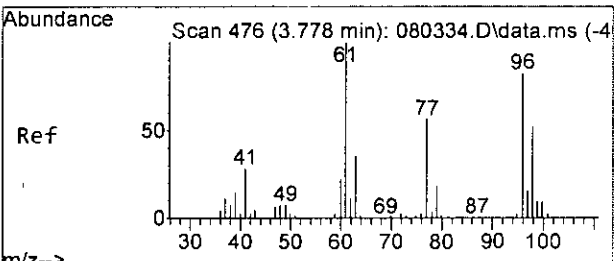
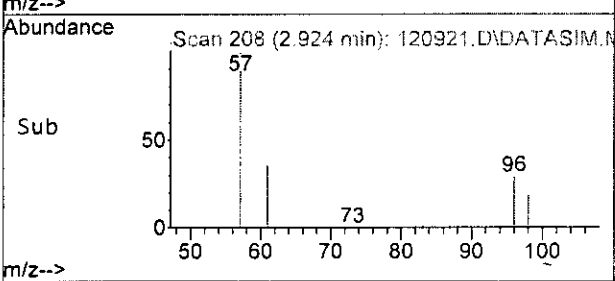
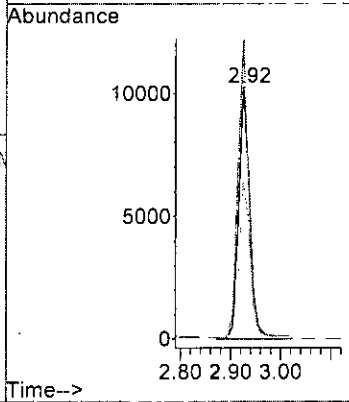
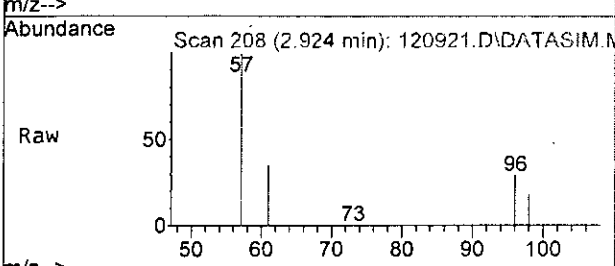
Tgt Ion	Resp	Lower	Upper
59	9058		
59	100		
41	0.0	0.0	50.8





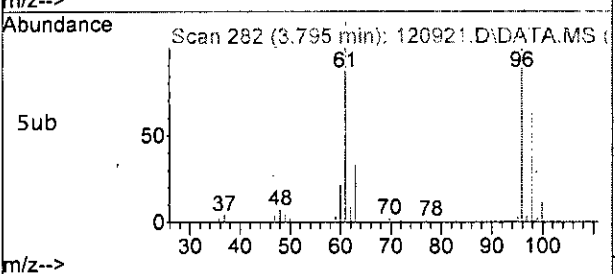
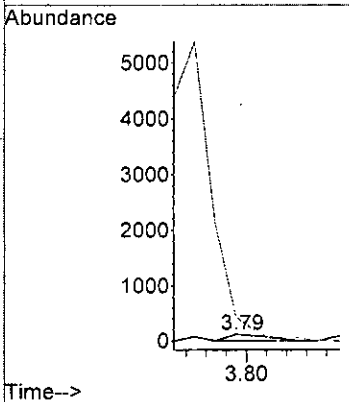
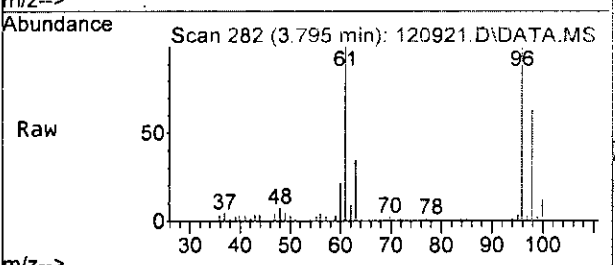
#17  
 trans-1,2-Dichloroethene  
 Concen: 6.448 ppb  
 RT: 2.92 min Scan# 208  
 Delta R.T. 0.010 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

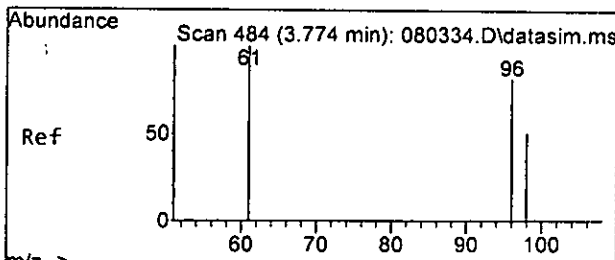
Tgt Ion: 96 Resp: 15876  
 Ion Ratio Lower Upper  
 96 100  
 61 119.6 77.0 137.0  
 98 62.8 32.7 92.7



#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.031 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

Tgt Ion: 77 Resp: 157  
 Ion Ratio Lower Upper  
 77 100  
 97 329.6 2.0 62.0#

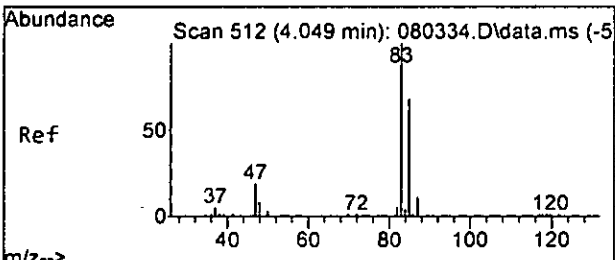
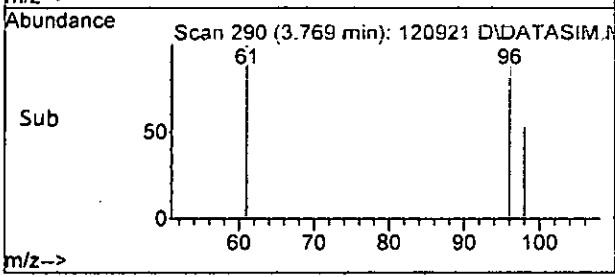
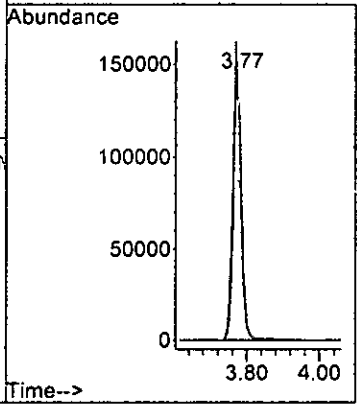
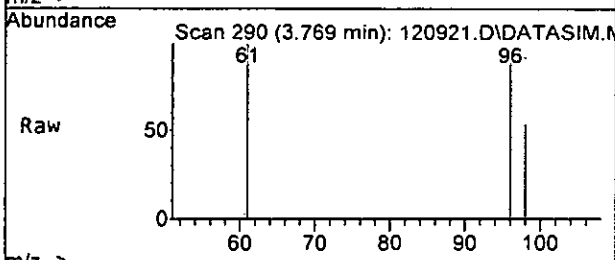




#22  
 cis-1,2-Dichloroethene  
 Concen: 88.467 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

Tgt Ion: 96 Resp: 235173

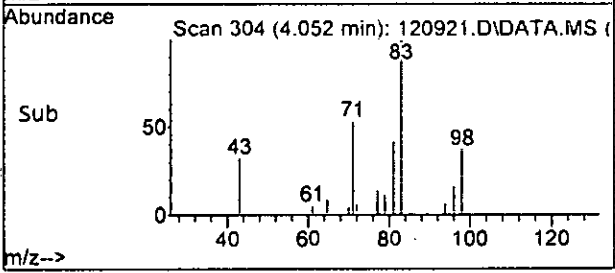
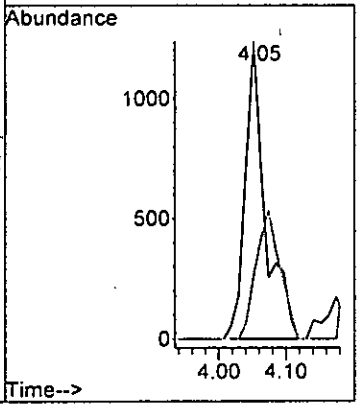
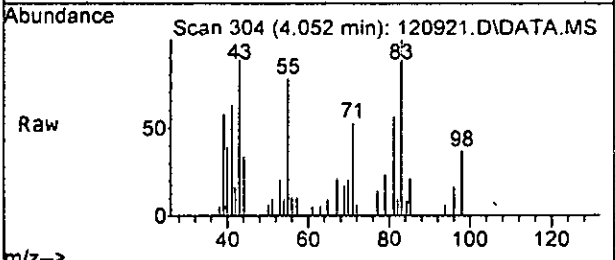
Ion	Ratio	Lower	Upper
96	100		
61	111.7	67.0	127.0
98	59.5	38.1	98.1

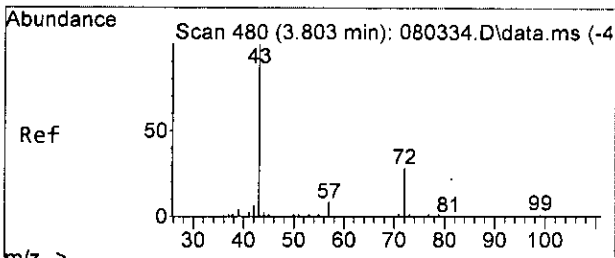


#23  
 Chloroform  
 Concen: 0.647 ppb  
 RT: 4.05 min Scan# 304  
 Delta R.T. 0.011 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

Tgt Ion: 83 Resp: 2562

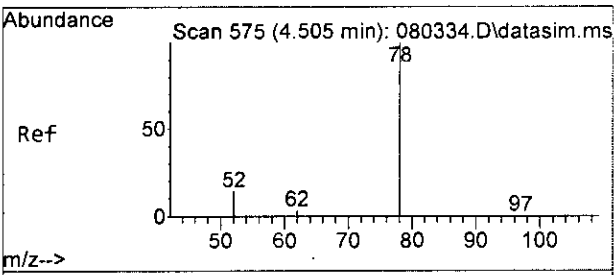
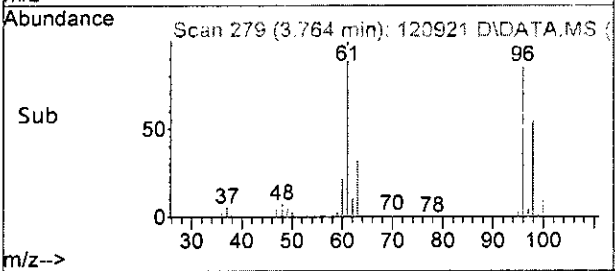
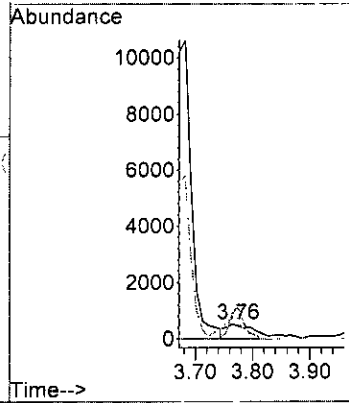
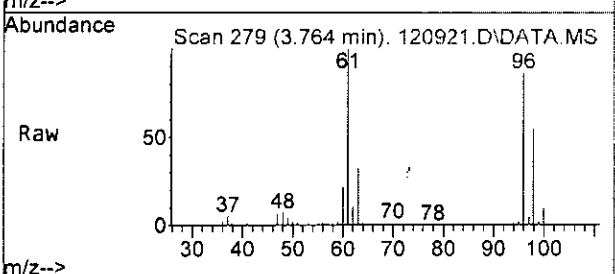
Ion	Ratio	Lower	Upper
83	100		
85	21.0	37.9	97.9#





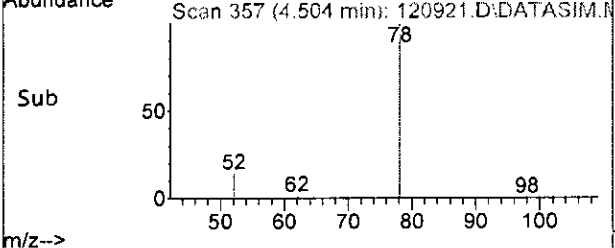
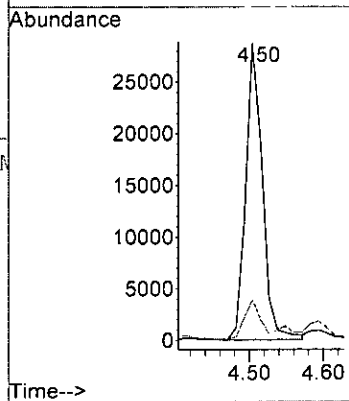
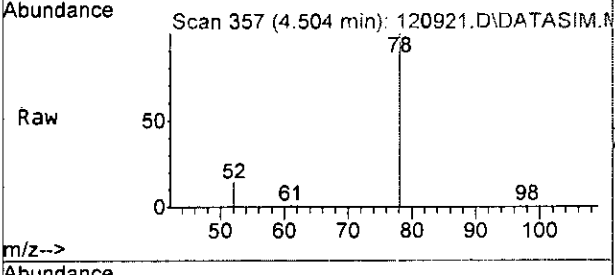
#24  
 2-Butanone (MEK)  
 Concen: 2.590 ppb  
 RT: 3.76 min Scan# 279  
 Delta R.T. -0.021 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

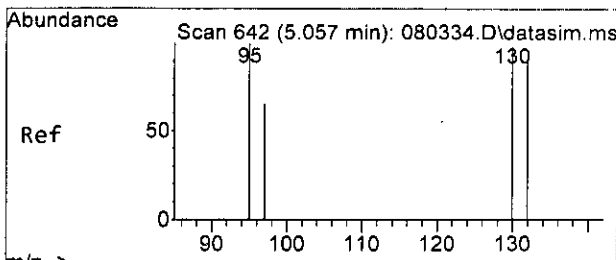
Tgt Ion:	Resp:	Lower	Upper
43	100		
72	165.4	0.0	54.9#
57	152.7	0.0	28.8#



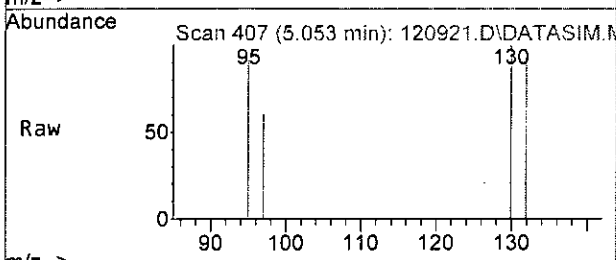
#31  
 Benzene  
 Concen: 6.311 ppb  
 RT: 4.50 min Scan# 357  
 Delta R.T. -0.001 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

Tgt Ion:	Resp:	Lower	Upper
78	100		
52	13.2	0.0	42.0

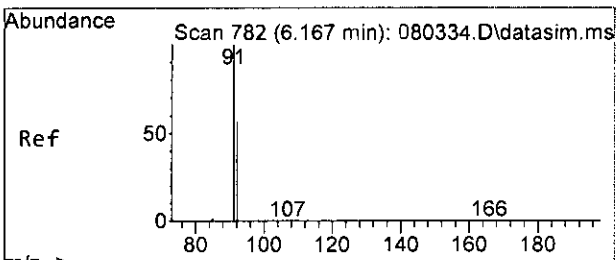
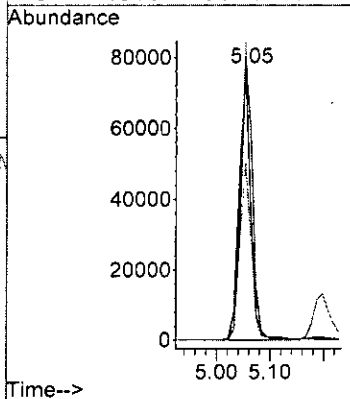
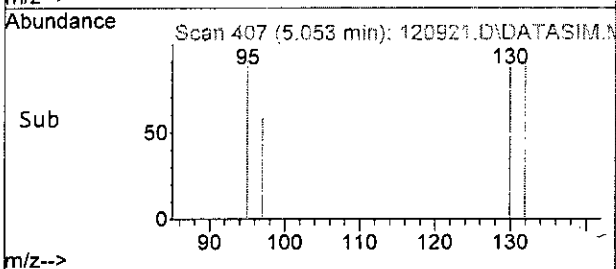




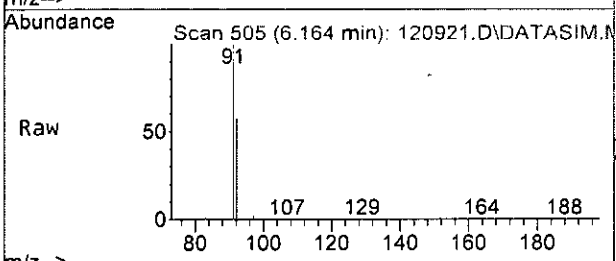
#32  
 Trichloroethene  
 Concen: 41.720 ppb  
 RT: 5.05 min Scan# 407  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm



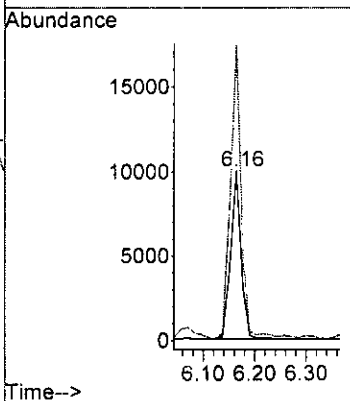
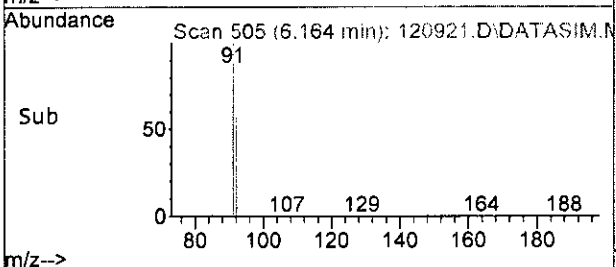
Tgt Ion: 95 Resp: 113835  
 Ion Ratio Lower Upper  
 95 100  
 97 65.6 39.9 99.9  
 130 109.9 131.0 191.0#  
 132 103.8 130.1 190.1#

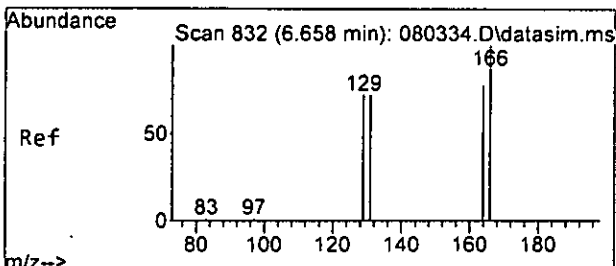


#40  
 Toluene  
 Concen: 3.056 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm



Tgt Ion: 92 Resp: 14034  
 Ion Ratio Lower Upper  
 92 100  
 91 174.0 137.5 197.5

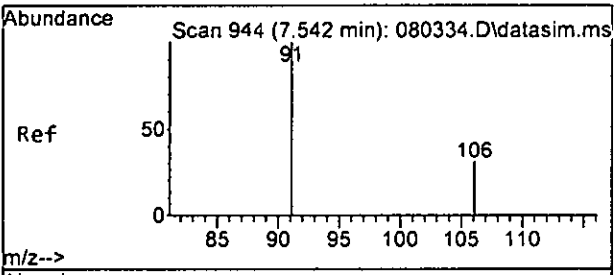
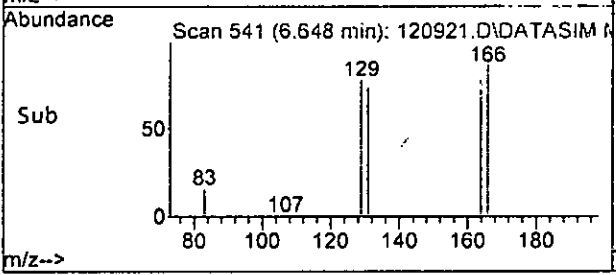
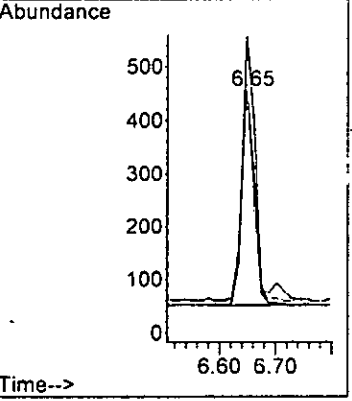
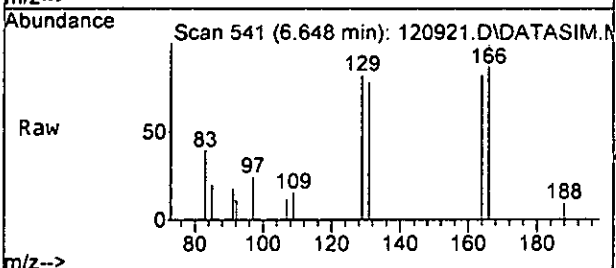




#45  
 Tetrachloroethene  
 Concen: 0.210 ppb  
 RT: 6.65 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

Tgt Ion: 164 Resp: 622

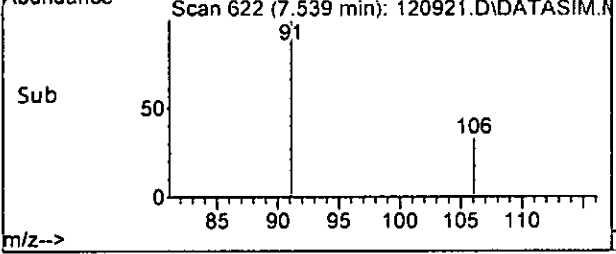
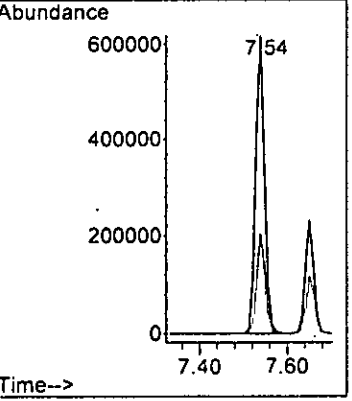
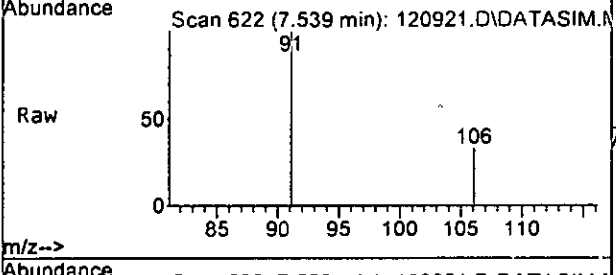
Ion	Ratio	Lower	Upper
164	100		
129	96.5	60.6	120.6
131	93.3	58.0	118.0
166	125.0	95.8	155.8

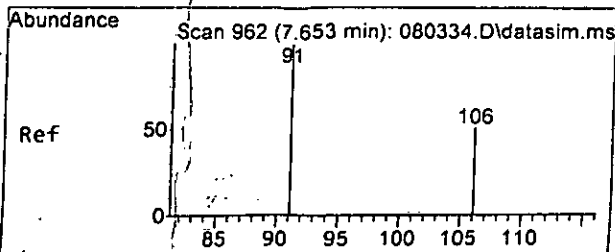


#49  
 Ethylbenzene  
 Concen: 104.418 ppb  
 RT: 7.54 min Scan# 622  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

Tgt Ion: 91 Resp: 850851

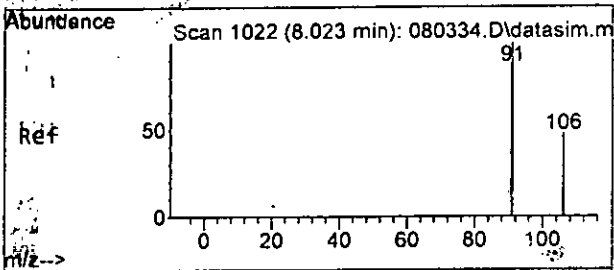
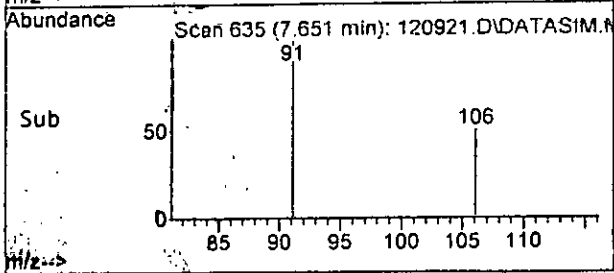
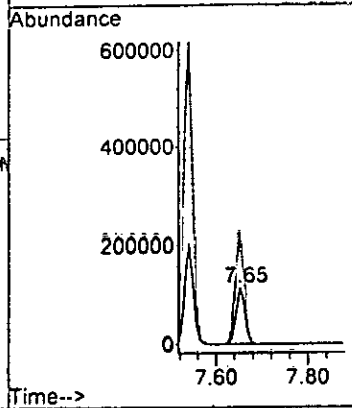
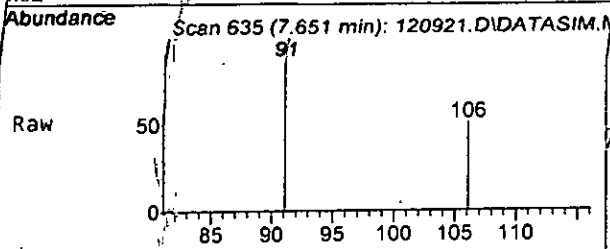
Ion	Ratio	Lower	Upper
91	100		
106	33.0	7.1	67.1





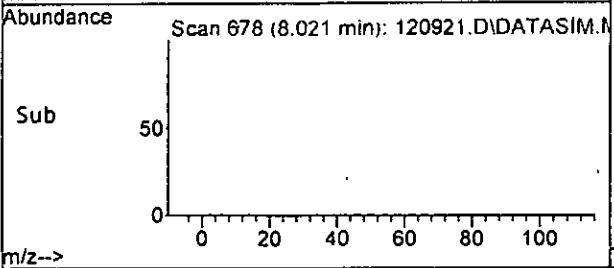
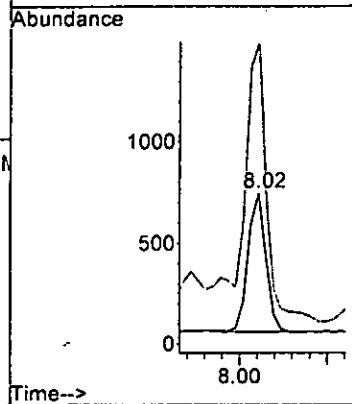
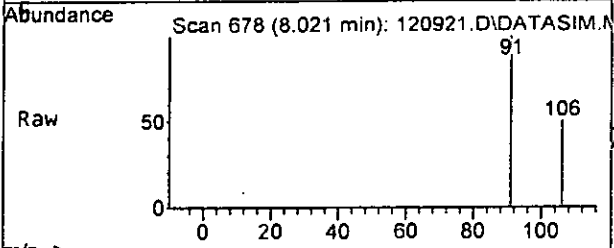
#51  
 m,p-Xylene  
 Concen: 43.459 ppb  
 RT: 7.65 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

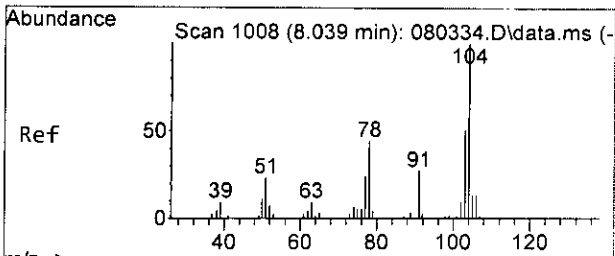
Tgt Ion: 106 Resp: 155917  
 Ion Ratio Lower Upper  
 106 100  
 91 199.3 138.1 198.1



#52  
 o-Xylene  
 Concen: 0.247 ppb  
 RT: 8.02 min Scan# 678  
 Delta R.T. -0.001 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

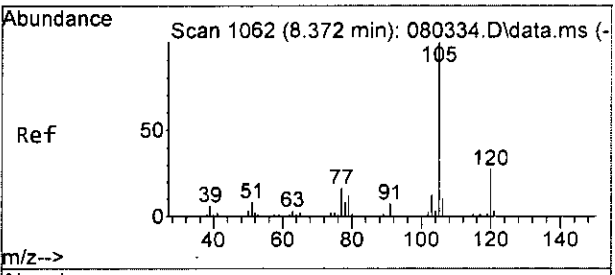
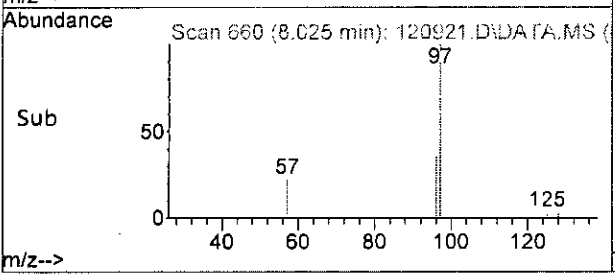
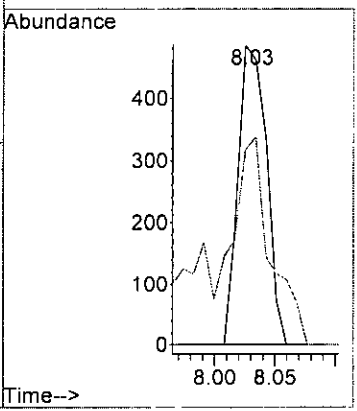
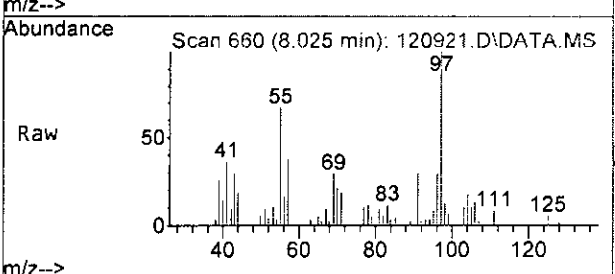
Tgt Ion: 106 Resp: 970  
 Ion Ratio Lower Upper  
 106 100  
 91 196.2 143.9 203.9





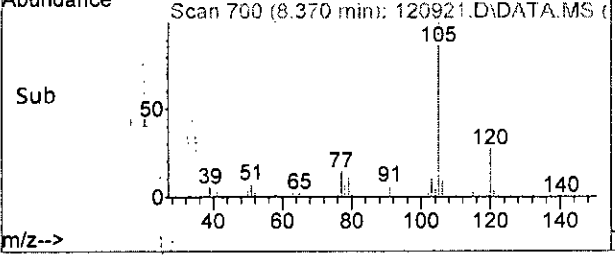
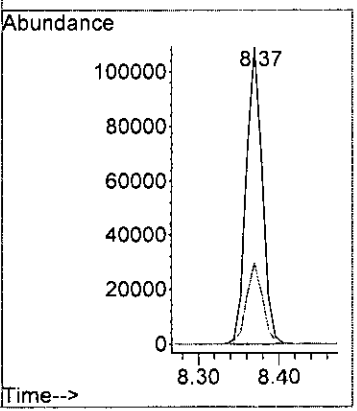
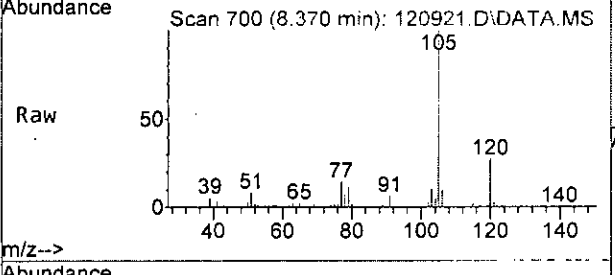
#53  
 Styrene  
 Concen: 0.143 ppb  
 RT: 8.03 min Scan# 660  
 Delta R.T. -0.009 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

Tgt Ion: 104 Resp: 798  
 Ion Ratio Lower Upper  
 104 100  
 78 51.1 5.2 65.2

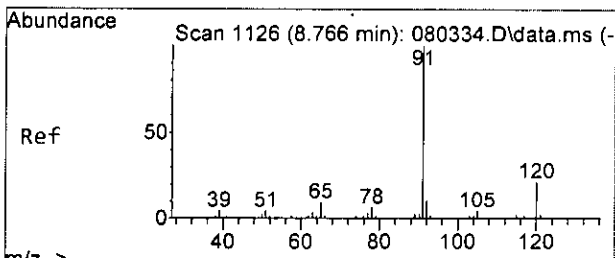


#54  
 Isopropylbenzene  
 Concen: 16.675 ppb  
 RT: 8.37 min Scan# 700  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

Tgt Ion: 105 Resp: 148785  
 Ion Ratio Lower Upper  
 105 100  
 120 27.1 0.1 60.1

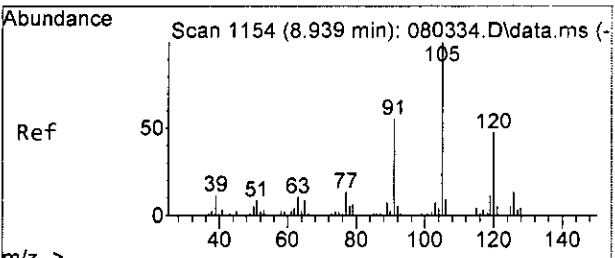
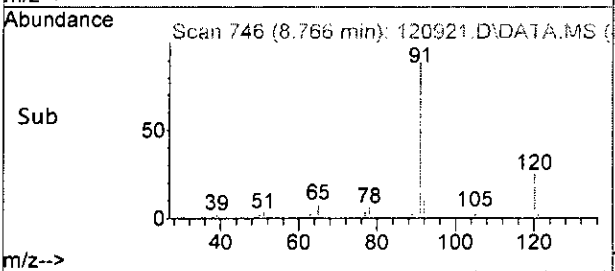
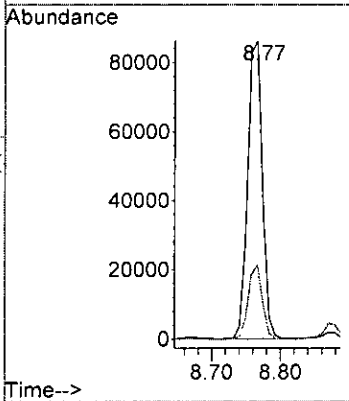
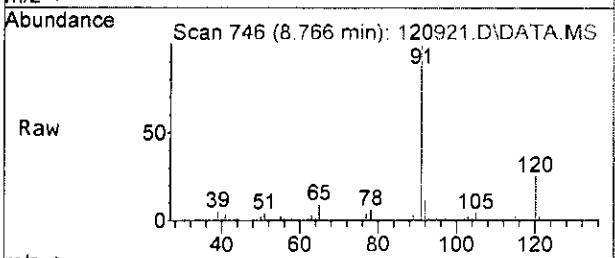






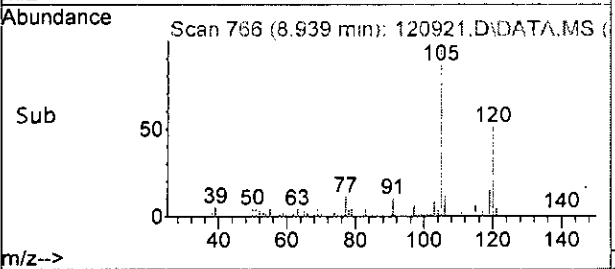
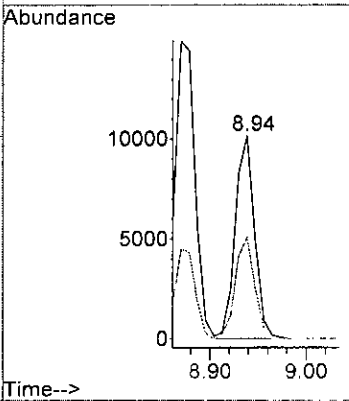
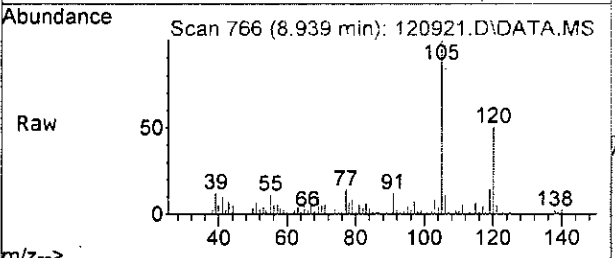
#58  
 n-Propylbenzene  
 Concen: 15.623 ppb  
 RT: 8.77 min Scan# 746  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

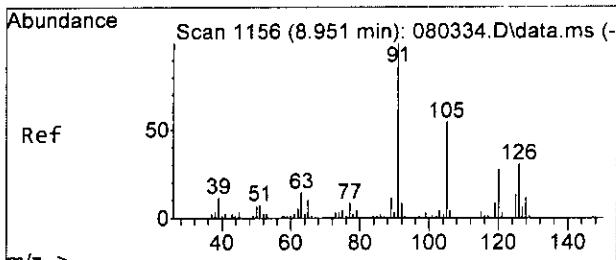
Tgt Ion: 91 Resp: 126677  
 Ion Ratio Lower Upper  
 91 100  
 120 24.7 3.2 63.2



#60  
 1,3,5-Trimethylbenzene  
 Concen: 2.133 ppb  
 RT: 8.94 min Scan# 766  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

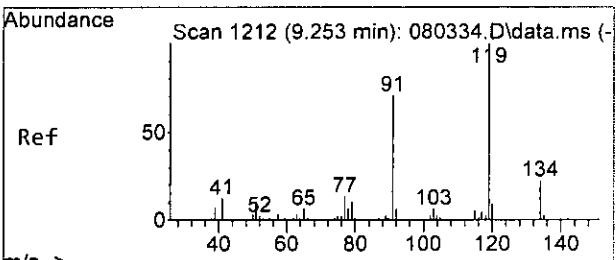
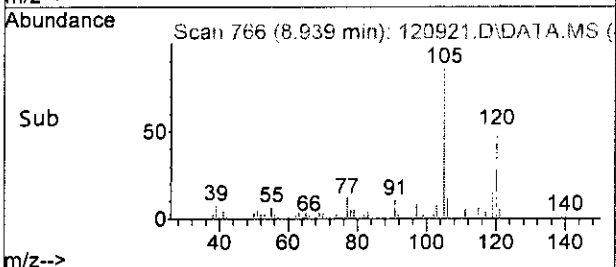
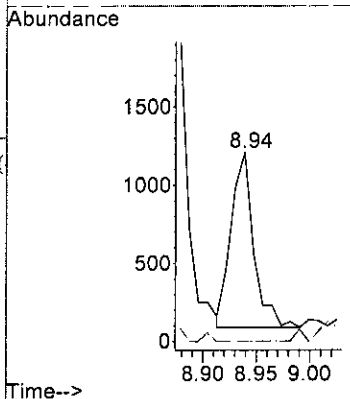
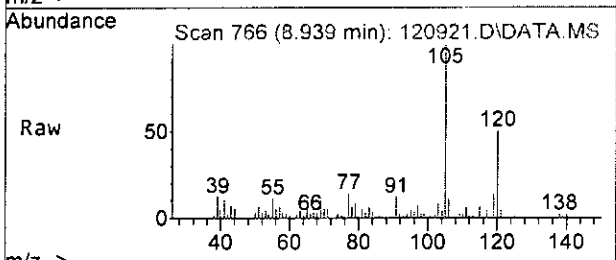
Tgt Ion: 105 Resp: 14066  
 Ion Ratio Lower Upper  
 105 100  
 120 50.1 26.8 86.8





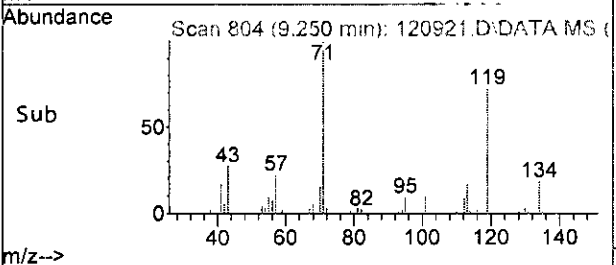
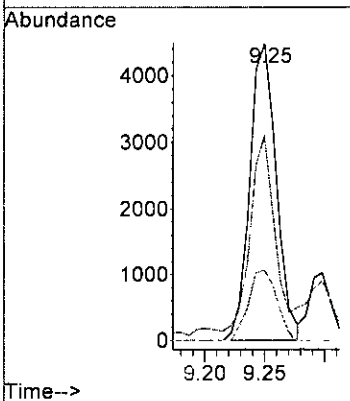
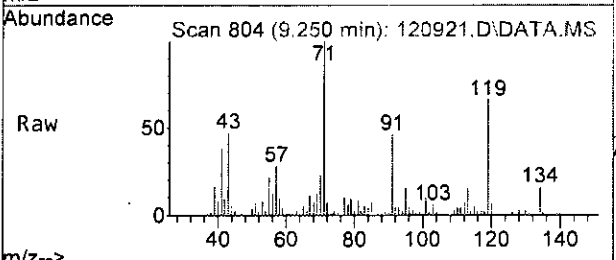
#64  
 4-Chlorotoluene  
 Concen: 0.298 ppb  
 RT: 8.94 min Scan# 766  
 Delta R.T. -0.009 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

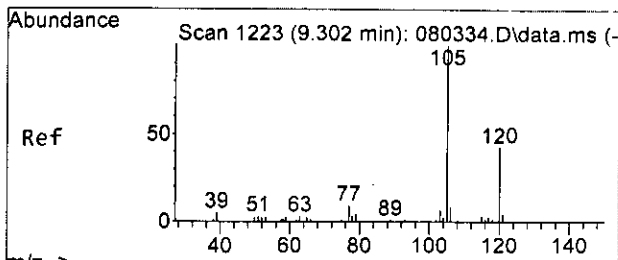
Tgt Ion: 91 Resp: 1659  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 17.9 77.9#



#65  
 tert-Butylbenzene  
 Concen: 0.981 ppb  
 RT: 9.25 min Scan# 804  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

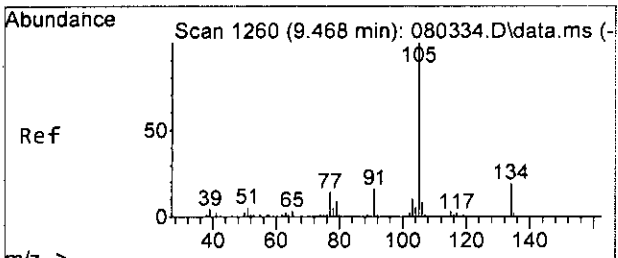
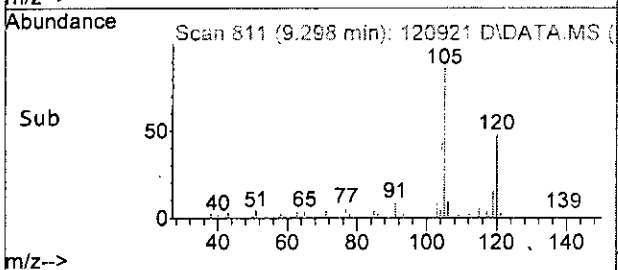
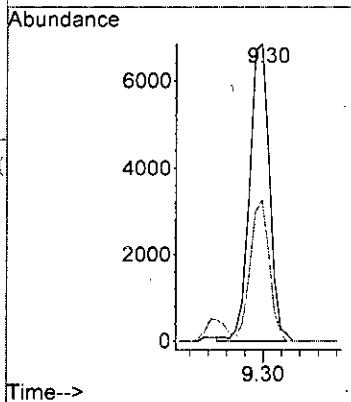
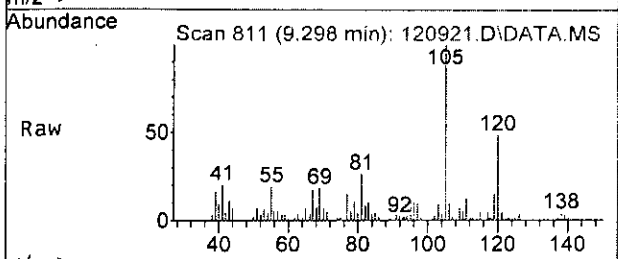
Tgt Ion: 119 Resp: 6859  
 Ion Ratio Lower Upper  
 119 100  
 91 65.5 22.5 82.5  
 134 23.9 0.0 55.1





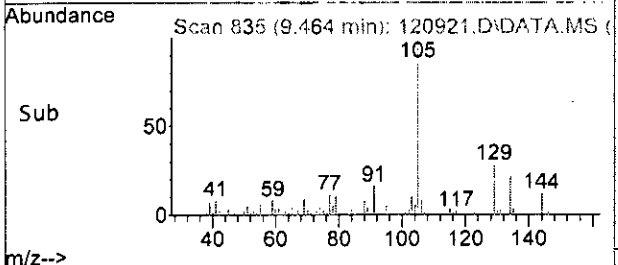
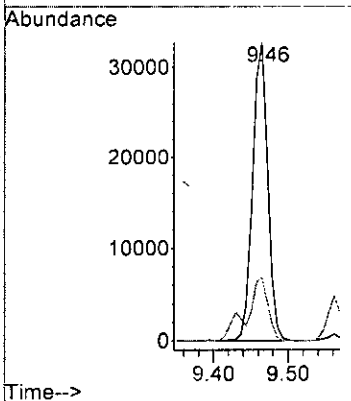
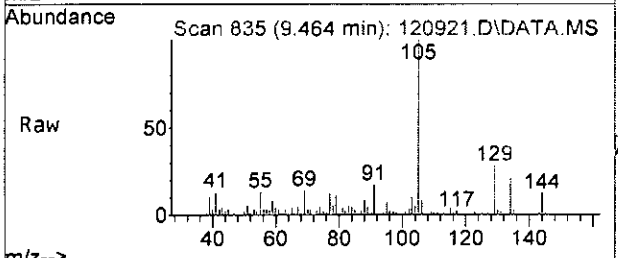
#66  
 1,2,4-Trimethylbenzene  
 Concen: 1.428 ppb  
 RT: 9.30 min Scan# 811  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

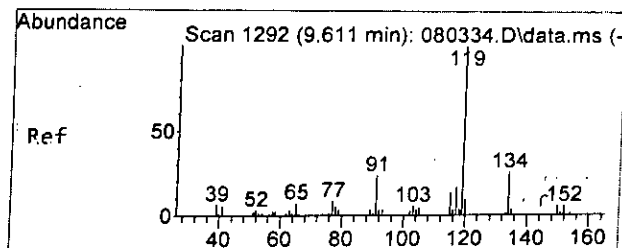
Tgt Ion: 105 Resp: 10134  
 Ion Ratio Lower Upper  
 105 100  
 120 47.8 21.9 81.9



#67  
 sec-Butylbenzene  
 Concen: 5.311 ppb  
 RT: 9.46 min Scan# 835  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

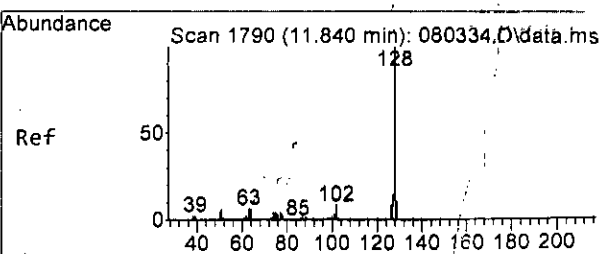
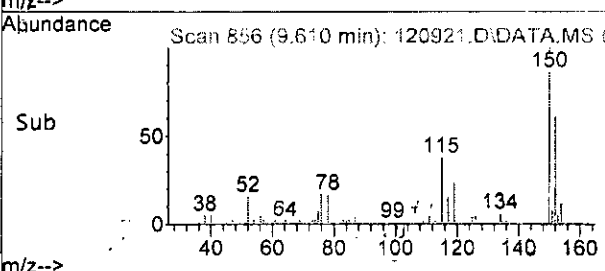
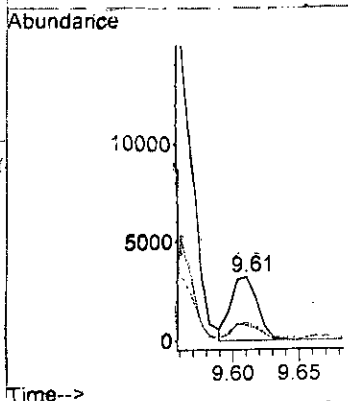
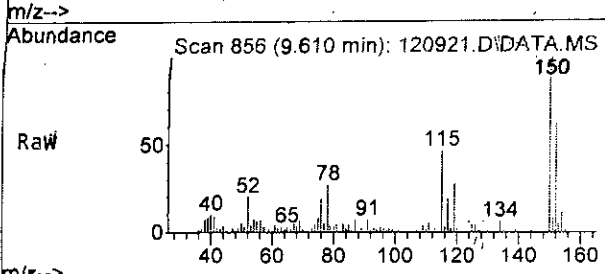
Tgt Ion: 105 Resp: 45700  
 Ion Ratio Lower Upper  
 105 100  
 134 21.1 0.0 56.0





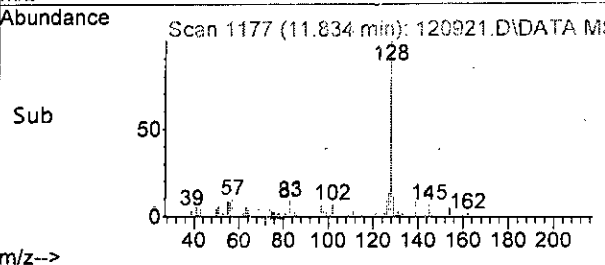
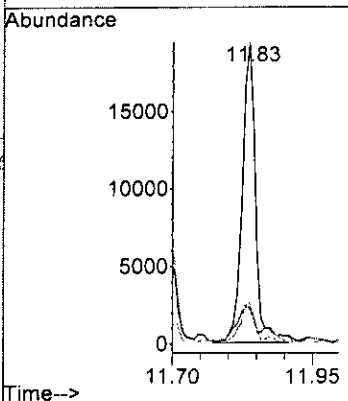
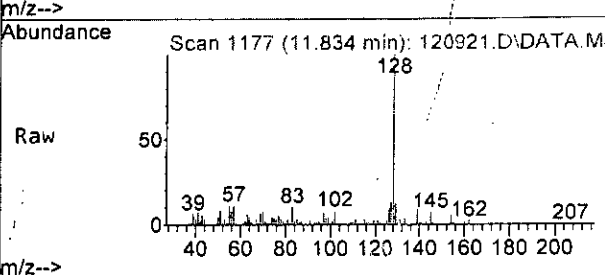
#68  
 p-Isopropyltoluene  
 Concen: 0.526 ppb  
 RT: 9.61 min Scan# 856  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

Tgt Ion	Resp	Lower	Upper
119	100		
134	24.0	0.0	59.2
91	25.5	0.0	49.1



#75  
 Naphthalene  
 Concen: 4.491 ppb  
 RT: 11.83 min Scan# 1177  
 Delta R.T. -0.000 min  
 Lab File: 120921.D  
 Acq: 09 Dec 2022 04:40 pm

Tgt Ion	Resp	Lower	Upper
128	100		
129	11.7	0.0	41.5
127	13.0	0.0	44.0



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120921.D  
 Acq On : 09 Dec 2022 04:40 pm  
 Operator : lm  
 Sample : 212083-06  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:39 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.75	96	89733	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	65940	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	35920	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	24225	8.475	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	84.70%		
30) 1,2-Dichloroethane-d4	4.47	102	5274	9.844	ppb	0.01	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	98.40%		
35) Toluene-d8	6.11	98	97851	12.132	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	121.30%		
57) 4-Bromofluorobenzene	8.51	95	27016	12.412	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	124.10%		
Target Compounds							
2) Ethanol	2.37	45	531	No Calib	#		Qvalue
4) Dichlorodifluoromethane	1.11	85	42	N.D.			
5) Chloromethane	1.27	50	2498	N.D.			
6] Vinyl chloride	1.35	62	8221m	2.455	ppb		
7) Bromomethane	0.00		0	N.D.			
8] Chloroethane	1.66	64	1689	0.942	ppb	73	
9) Trichlorofluoromethane	1.83	101	41	N.D.			
10) 2-Propanol	2.37	45	531	No Calib			
11) Acetone	2.34	58	696	4.895	ppb	#	1
12) 1,1-Dichloroethene	0.00		0	N.D.	d		
13) Hexane	3.16	57	28155	13.217	ppb		94
14) Methylene chloride	2.69	84	7279	2.696	ppb		96
15) t-Butyl alcohol (TBA)	2.82	59	9058	45.270	ppb		55
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17] trans-1,2-Dichloroethene	2.92	96	15876	6.448	ppb		92
18) Diisopropyl ether (DIPE)	3.38	45	36	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.	d		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.79	77	157	Below Cal	#		1
22] cis-1,2-Dichloroethene	3.77	96	235173	88.467	ppb		87
23) Chloroform	4.05	83	2562	0.647	ppb	#	42
24) 2-Butanone (MEK)	3.76	43	2039	2.590	ppb	#	1
25) t-Amyl methyl ether (T...)	4.59	73	283	N.D.			
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d		
27) 1,1,1-Trichloroethane	0.00		0	N.D.	d		
28) 1,1-Dichloropropene	4.29	75	46	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	44845	6.311	ppb		97
32] Trichloroethene	5.05	95	113835	41.720	ppb	#	66
33) 1,2-Dichloropropane	5.28	63	177	Below Cal	#		81
34) Bromodichloromethane	0.00		0	N.D.	d		
36) Dibromomethane	5.30	93	32	N.D.			

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120921.D  
 Acq On : 09 Dec 2022 04:40 pm  
 Operator : lm  
 Sample : 212083-06  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

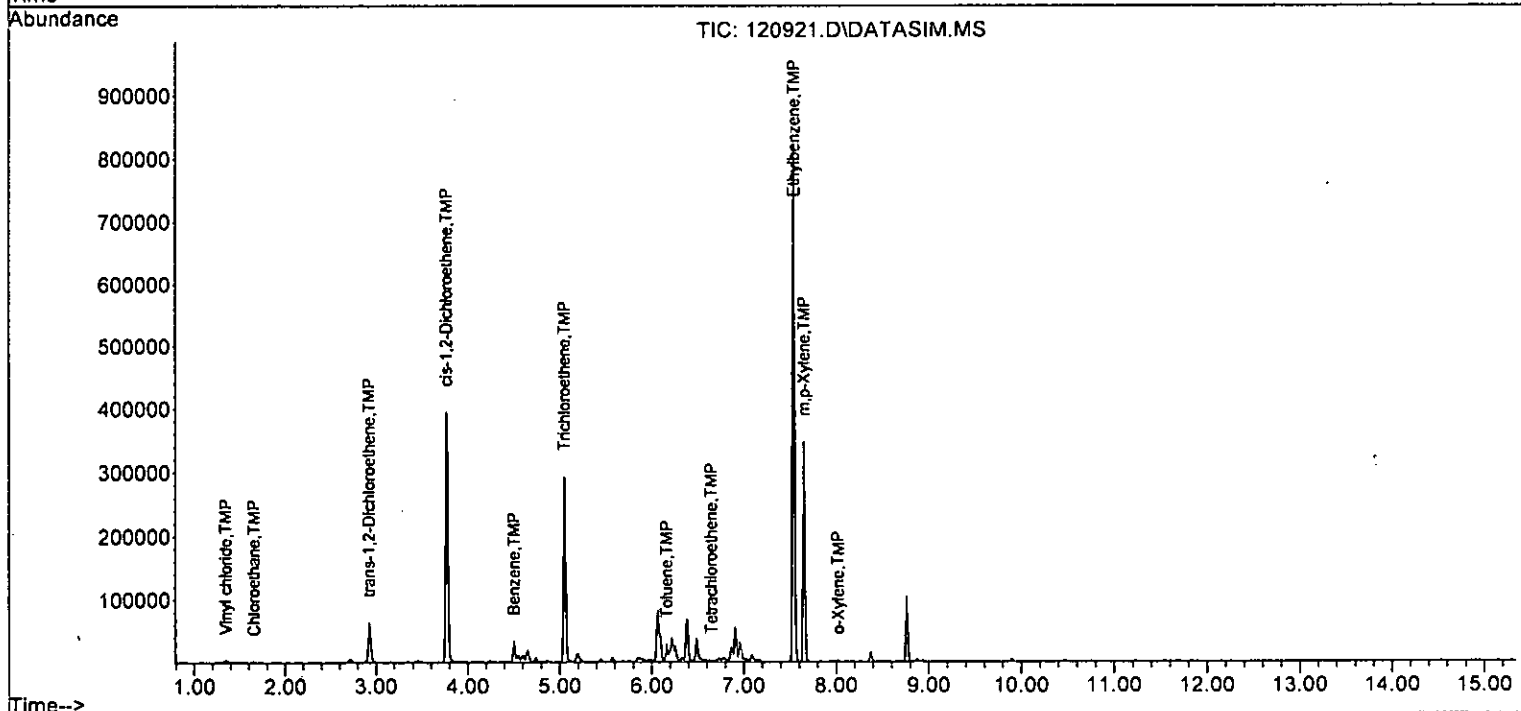
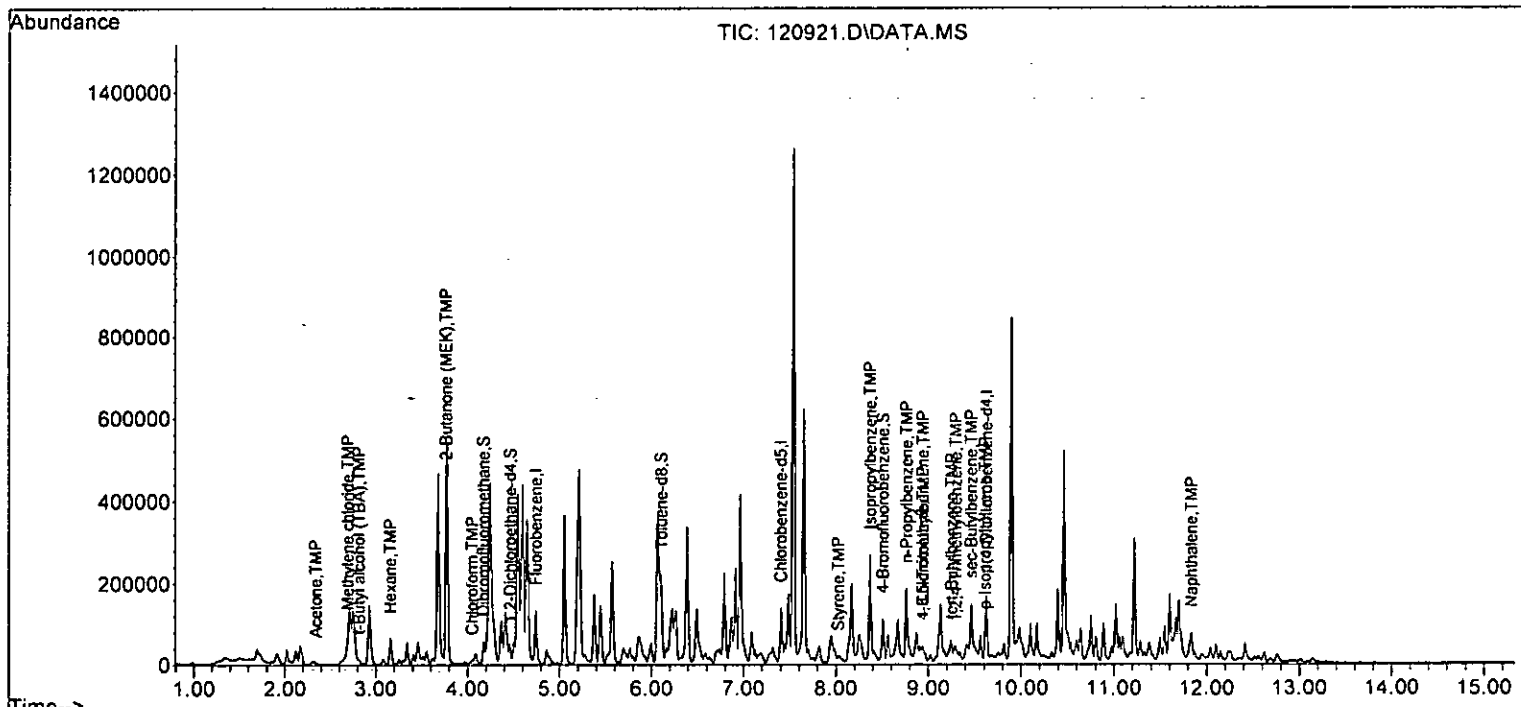
Quant Time: Dec 12 07:59:39 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.		
40] Toluene	6.16	92	14034	3.056	ppb	95
41) trans-1,3-Dichloropropene	6.39	75	100	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.	d	
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.		
45] Tetrachloroethene	6.65	164	622	0.210	ppb	96
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	d	
48) Chlorobenzene	7.44	112	242	N.D.		
49] Ethylbenzene	7.54	91	850851	104.418	ppb	93
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51] m,p-Xylene	7.65	106	155917	43.459	ppb #	77
52] o-Xylene	8.02	106	970	0.247	ppb	84
53) Styrene	8.03	104	798	0.143	ppb	73
54) Isopropylbenzene	8.37	105	148785	16.675	ppb	94
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	8.77	91	126677	15.623	ppb	85
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	8.94	105	14066	2.133	ppb	91
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	8.94	91	1659	0.298	ppb #	29
65) tert-Butylbenzene	9.25	119	6859	0.981	ppb	87
66) 1,2,4-Trimethylbenzene	9.30	105	10134	1.428	ppb	94
67) sec-Butylbenzene	9.46	105	45700	5.311	ppb	90
68) p-Isopropyltoluene	9.61	119	4538	0.526	ppb	89
69) 1,3-Dichlorobenzene	9.47	146	509	N.D.		
70) 1,4-Dichlorobenzene	9.47	146	509	N.D.		
71) 1,2-Dichlorobenzene	10.03	146	62	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	11.83	128	31270	4.491	ppb	98
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120921.D  
 Acq On : 09 Dec 2022 04:40 pm  
 Operator : lm  
 Sample : 212083-06  
 Misc : water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS13

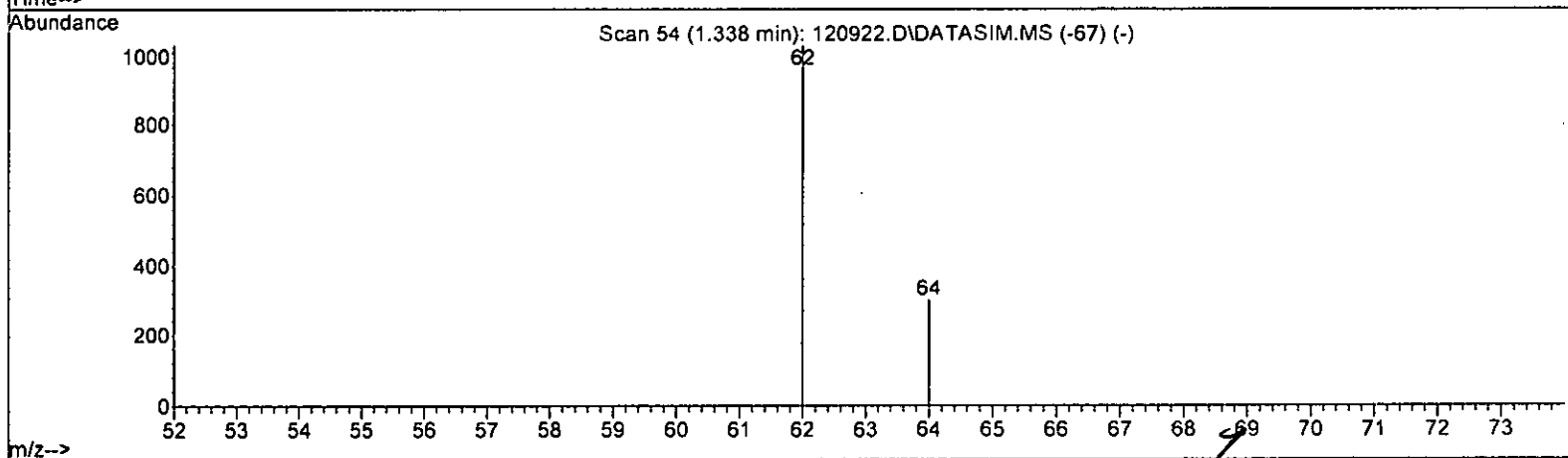
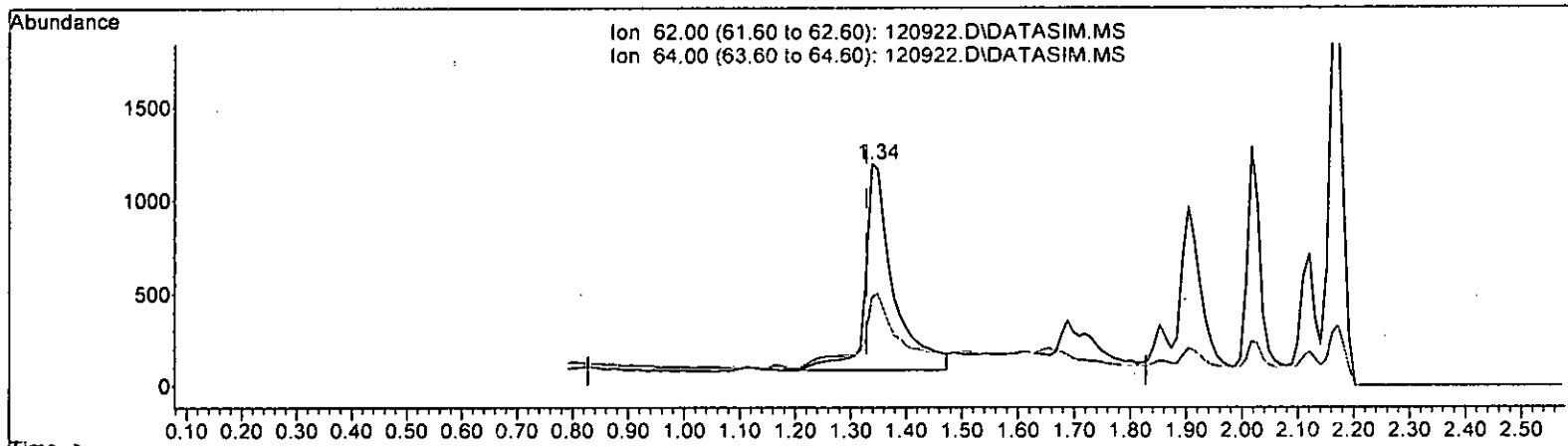
Quant Time: Dec 12 07:59:39 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120922.D\DATA.MS

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 1.145 ppb

response 3911

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	34.48
0.00	0.00	0.00
0.00	0.00	0.00

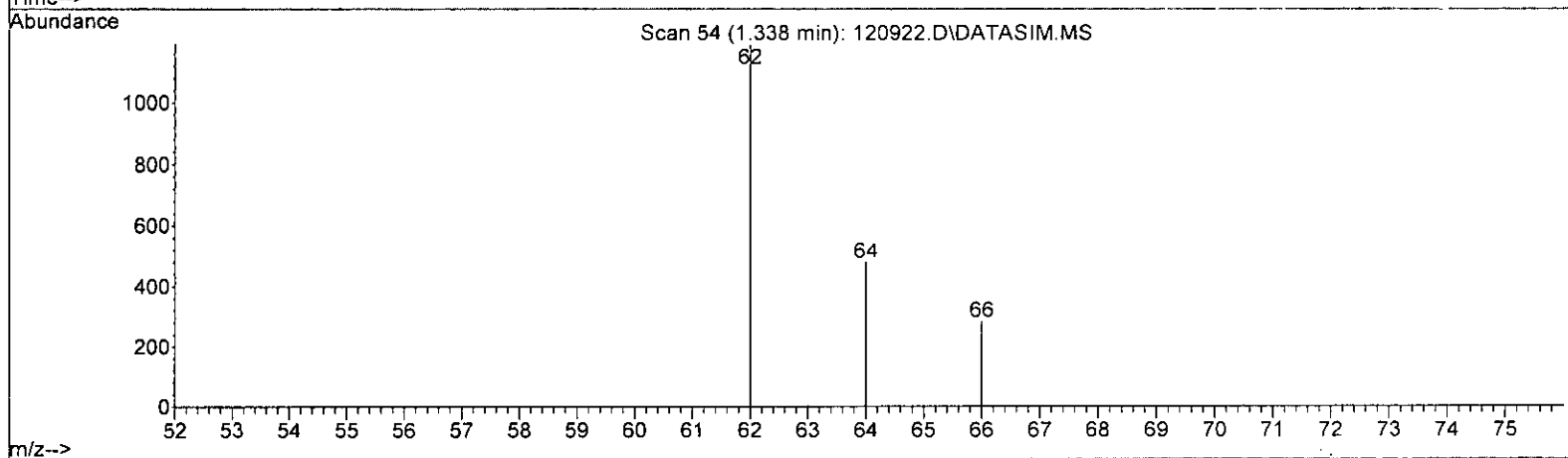
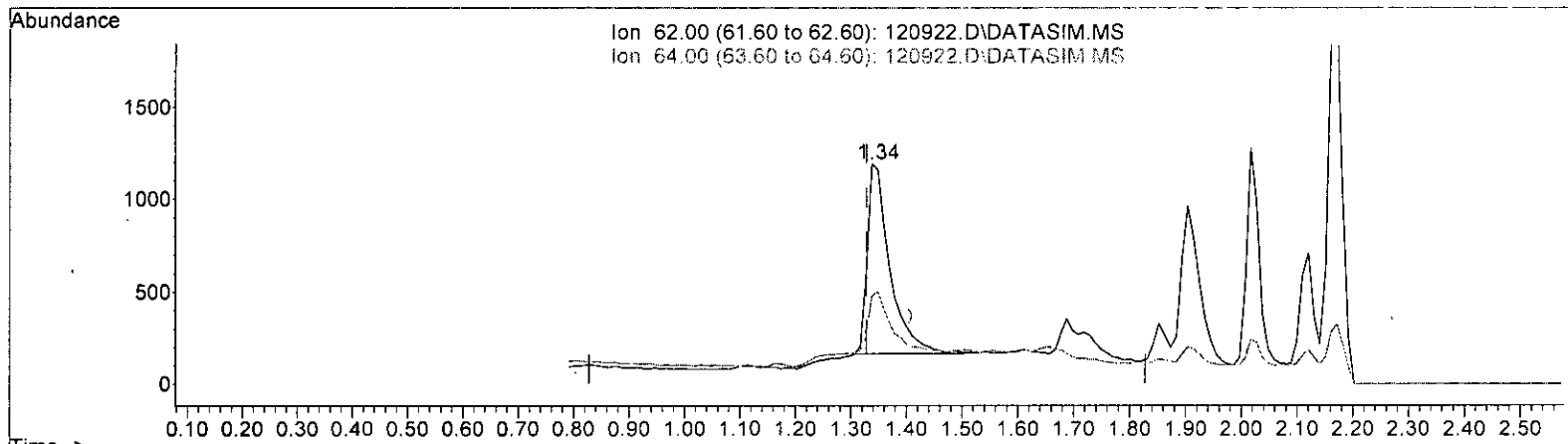
*lm 12.12*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120922.D\DATA.MS

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 0.850 ppb m

response 2903

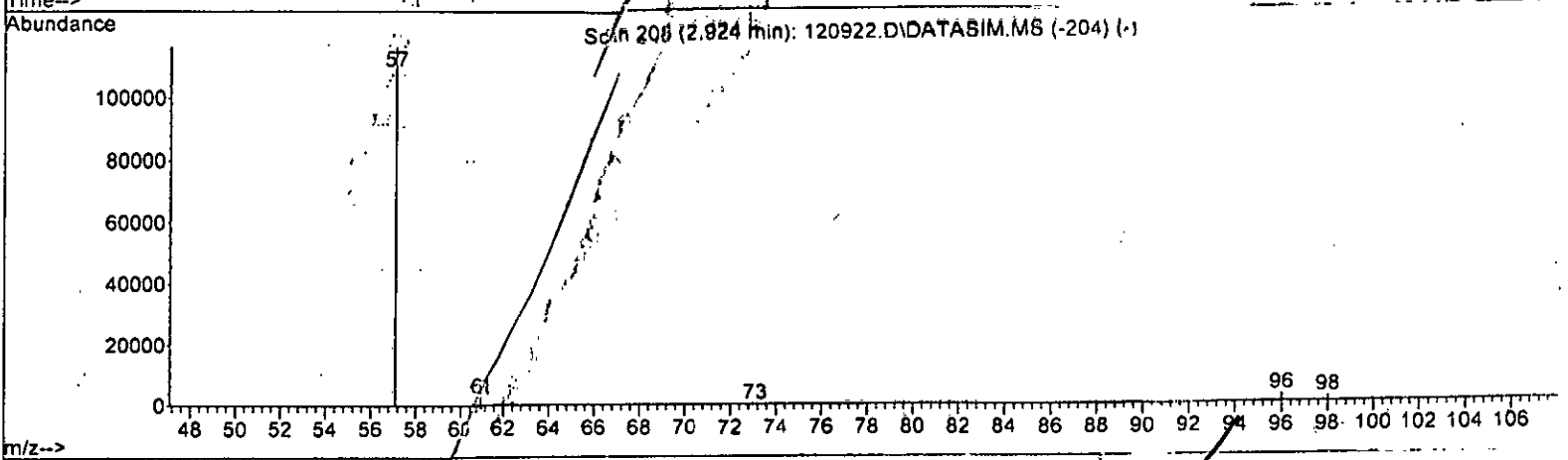
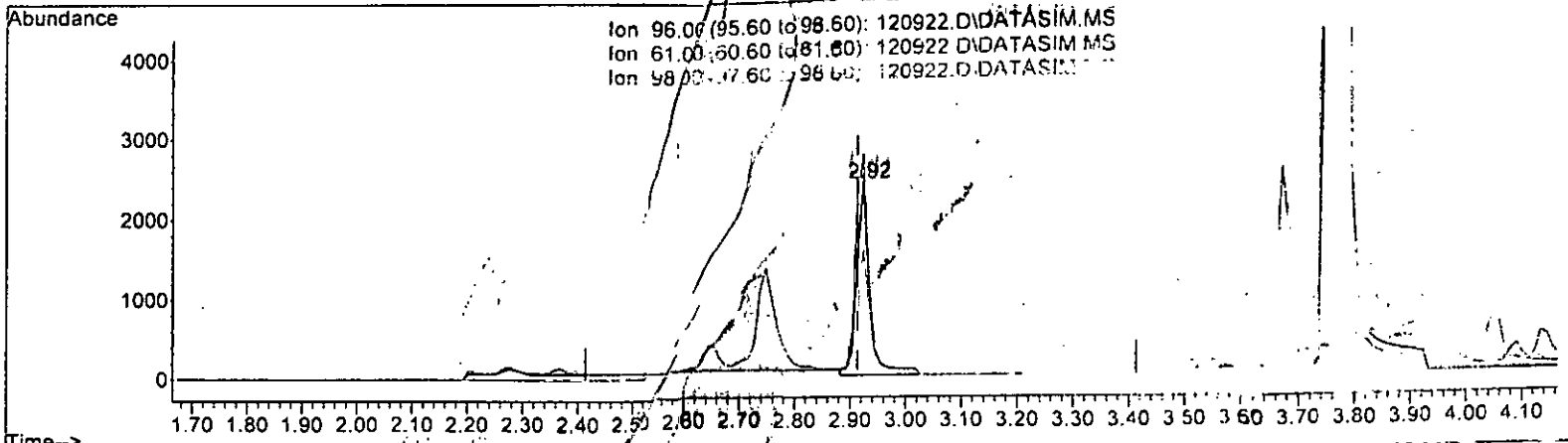
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	40.05
0.00	0.00	0.00
0.00	0.00	0.00

*lm 12/12*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120922.D\DATA.MS

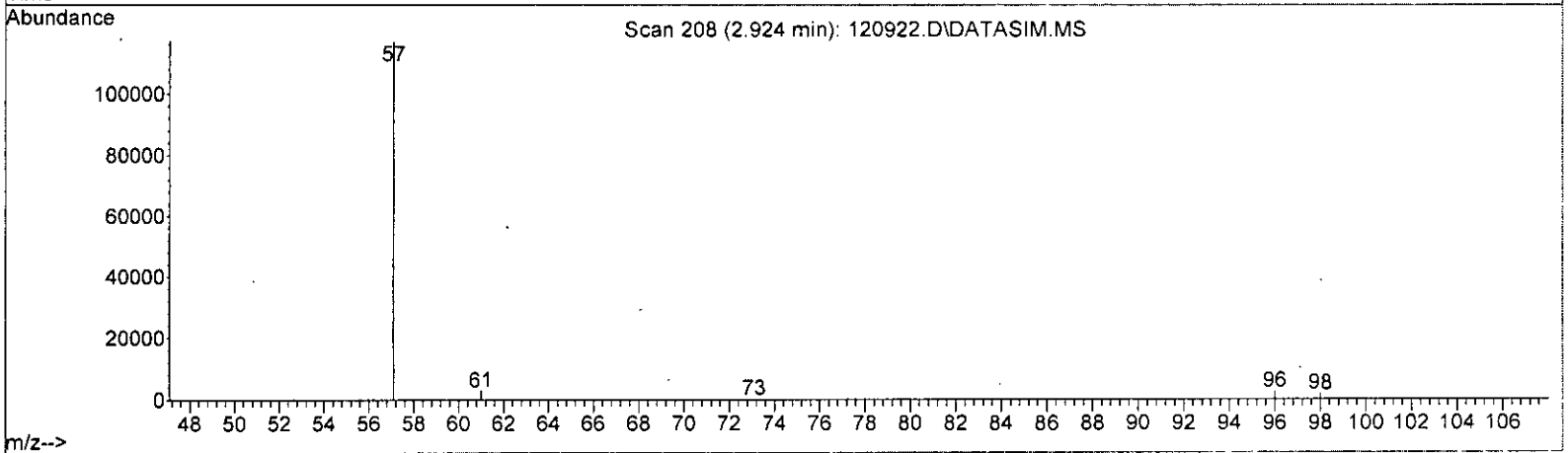
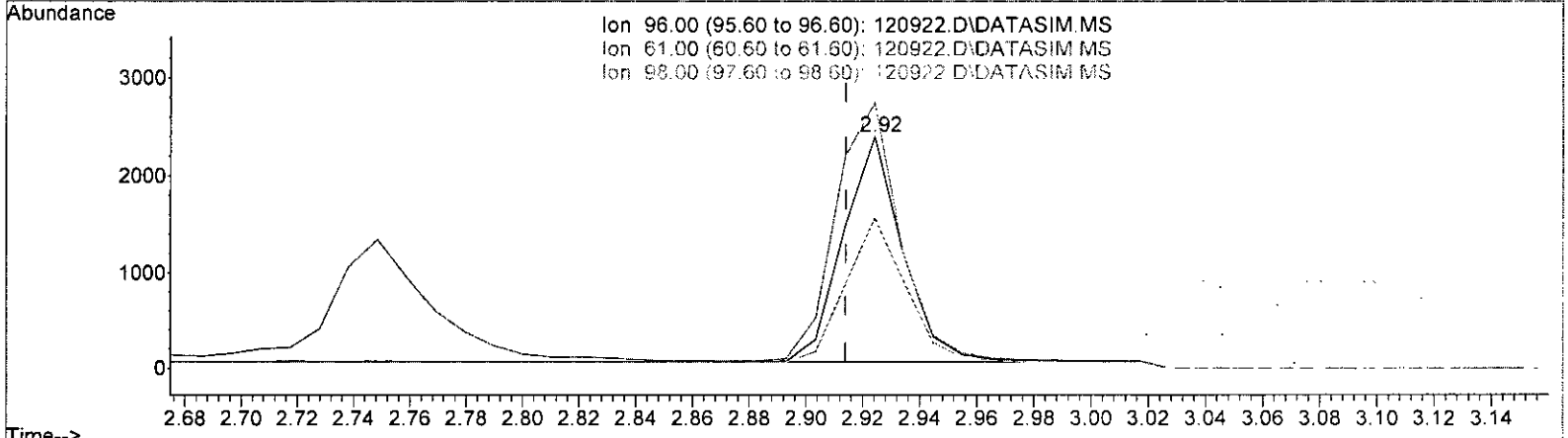
*m12.02*

(17) trans-1,2-Dichloroethene (TMP)		
Retention Time	Concentration	Response
2.924min (+ 0.010)	1.576 ppb	3959
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	114.46
98.00	62.70	65.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120922.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 1.355 ppb m

response 3403

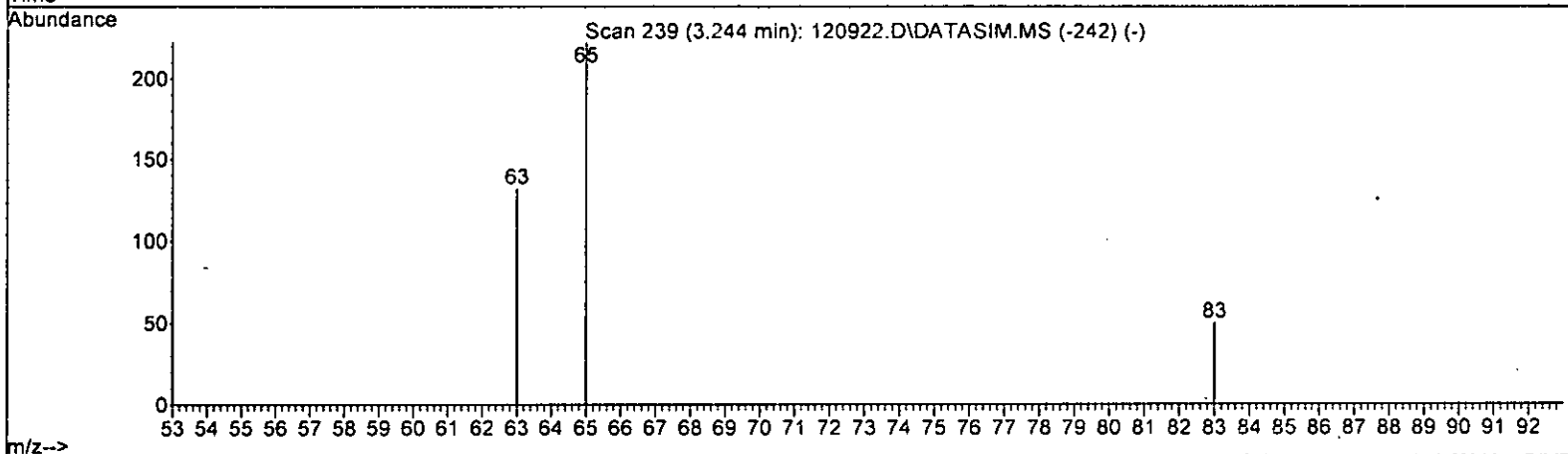
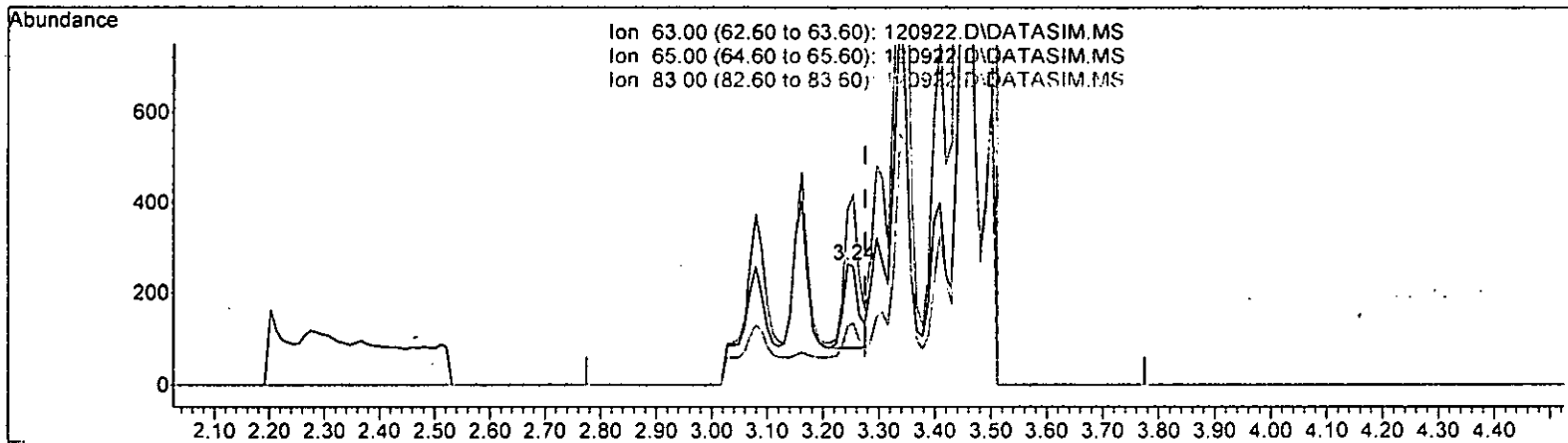
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	114.46
98.00	62.70	65.11
0.00	0.00	0.00

4/12/22

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120922.D\DATA.MS

(19) 1,1-Dichloroethane (TMP)

3.244min (-0.031) 0.112 ppb

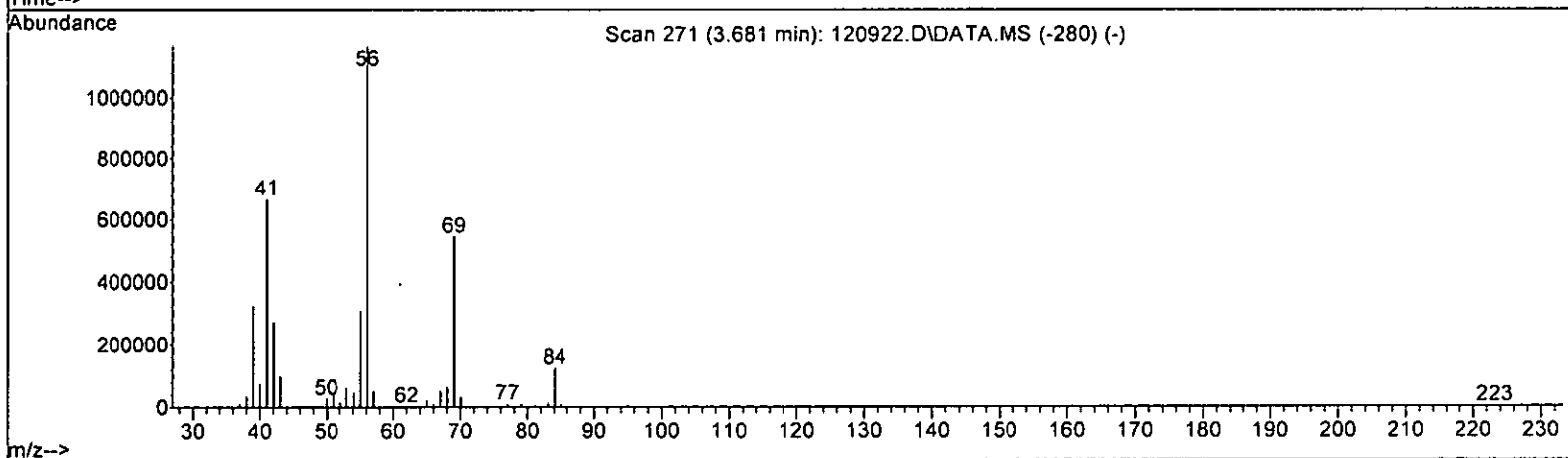
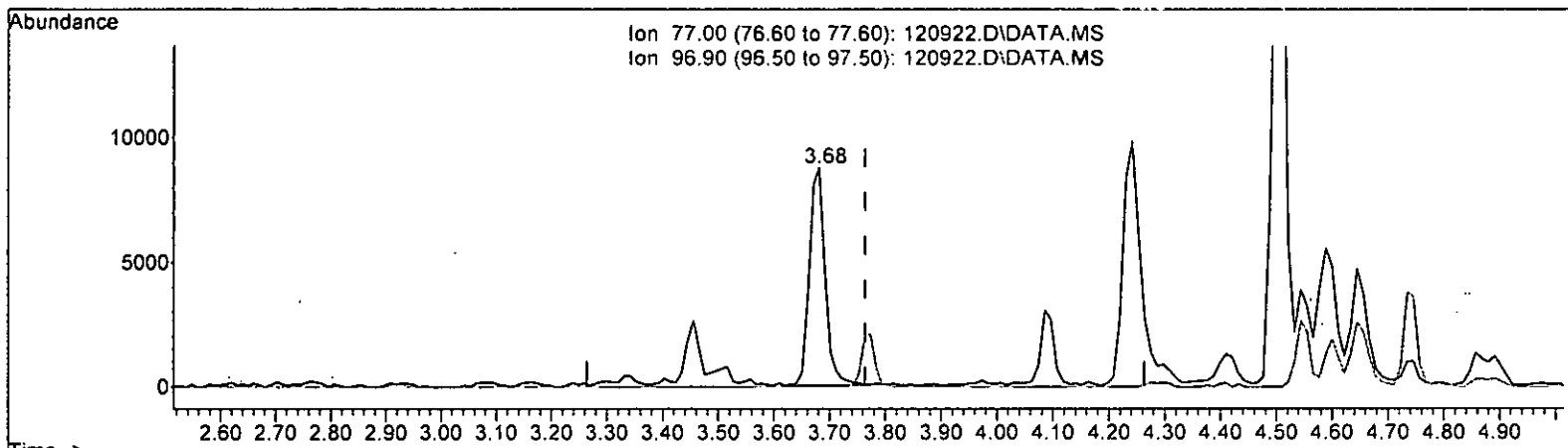
response 350

Ion	Exp%	Act%
63.00	100.00	100.00
65.00	32.50	160.66#
83.00	18.00	35.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



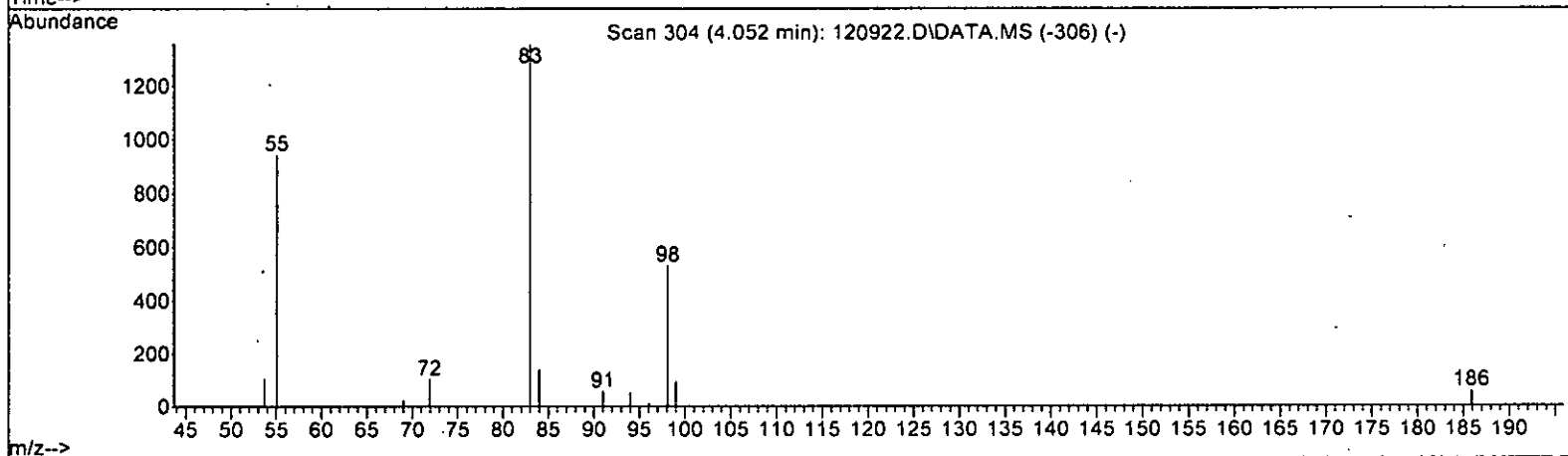
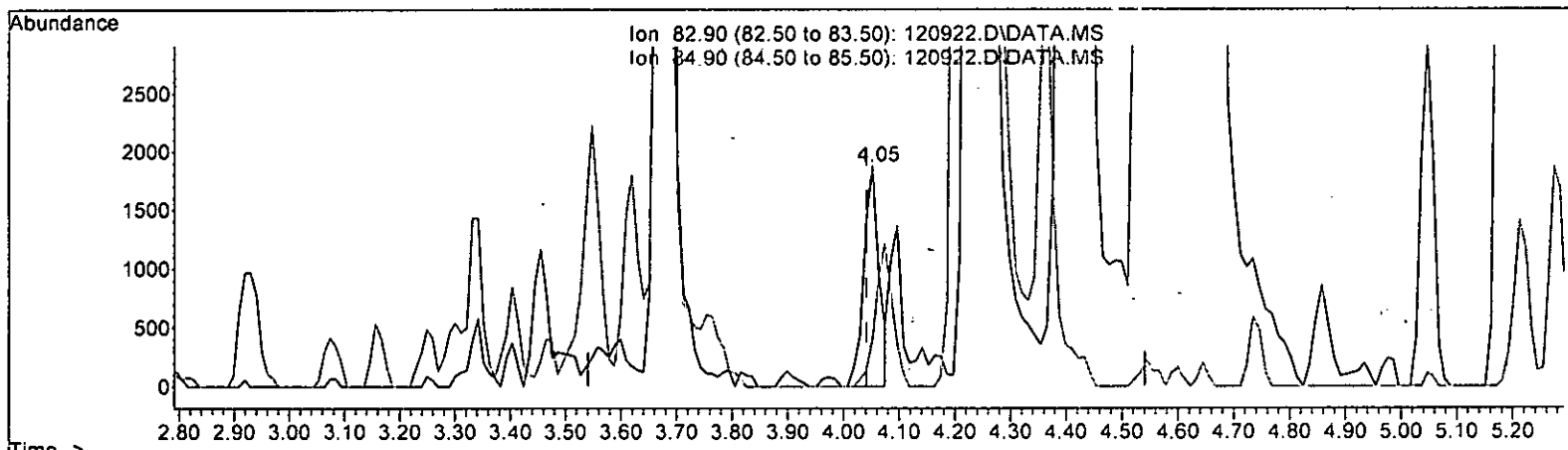
TIC: 120922.D\DATA.MS

(21) 2,2-Dichloropropane (TMP)		
3.681min (-0.083) 7.654 ppb		
response	17348	
Ion	Exp%	Act%
77.00	100.00	100.00
96.90	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



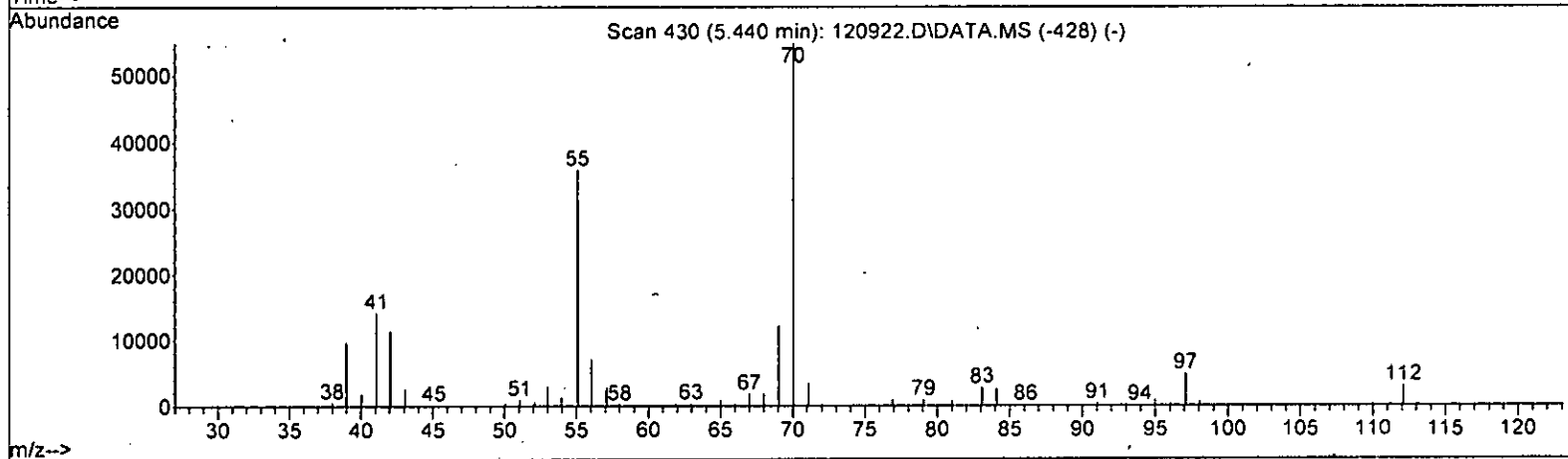
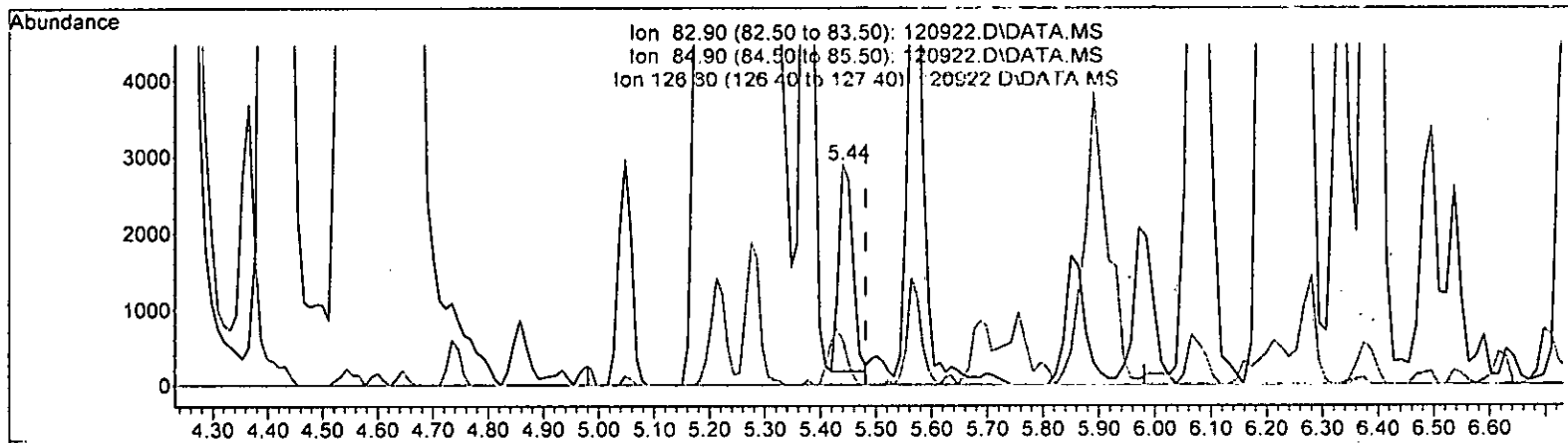
TIC: 120922.D\DATA.MS

(23) Chloroform (TMP)		
Retention Time	Concentration	Response
4.052min (+ 0.011)	0.885 ppb	3575
Ion	Exp%	Act%
82.90	100.00	100.00
84.90	67.90	21.49#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120922.D\DATA.MS

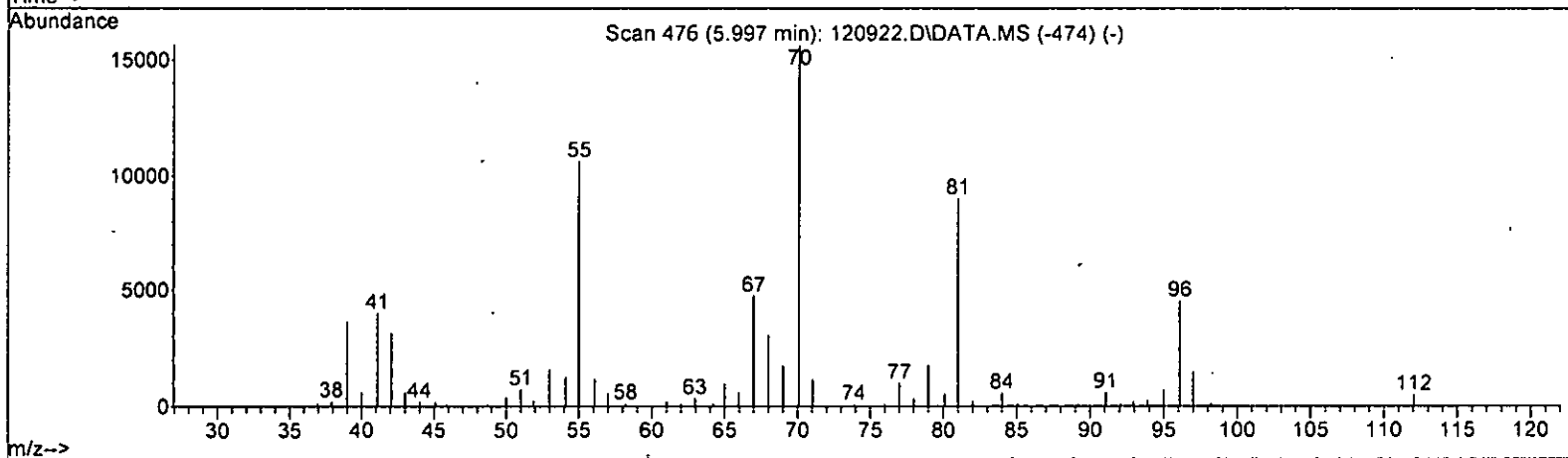
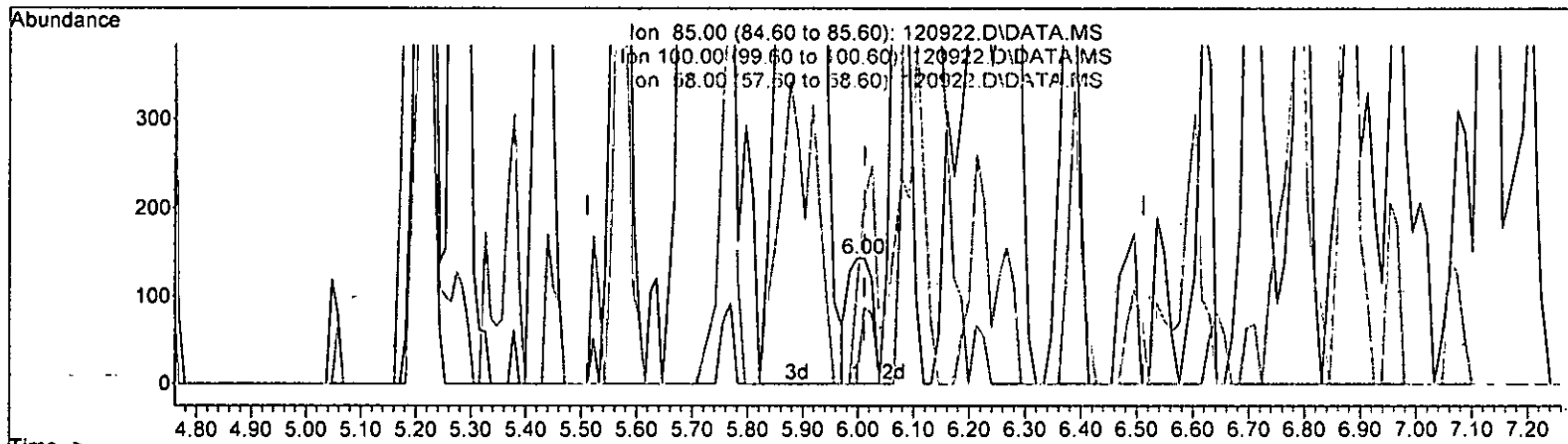
(34) Bromodichloromethane (TMP)  
 5.440min (-0.041) 1.639 ppb

response	4748	
Ion	Exp%	Act%
82.90	100.00	100.00
84.90	67.30	21.94#
126.80	15.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120922.D\DATA.MS

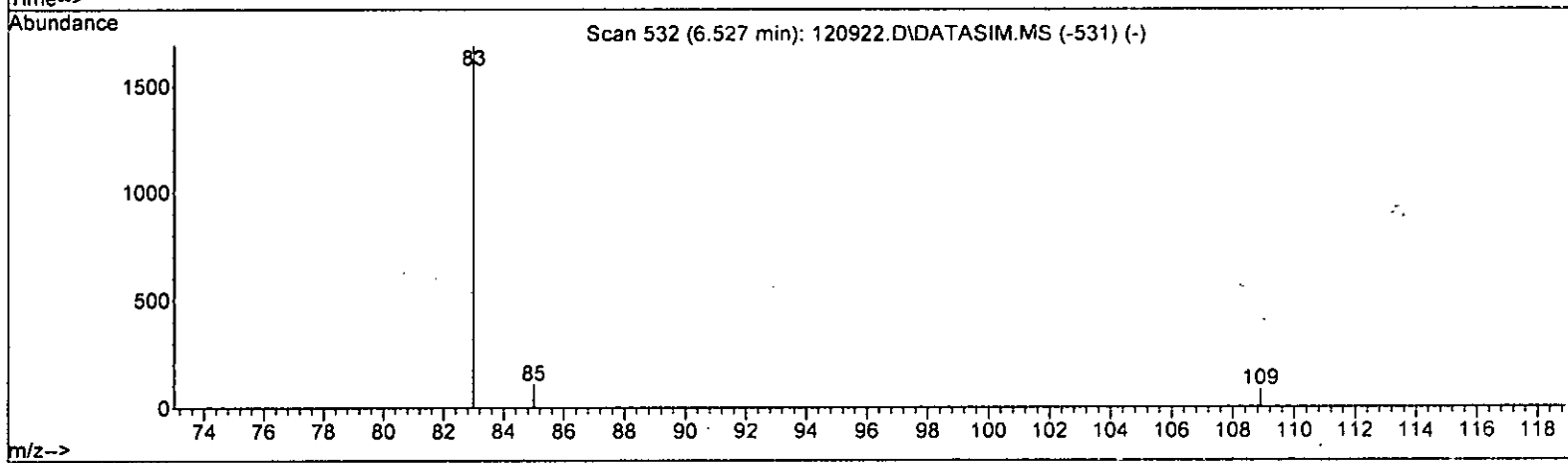
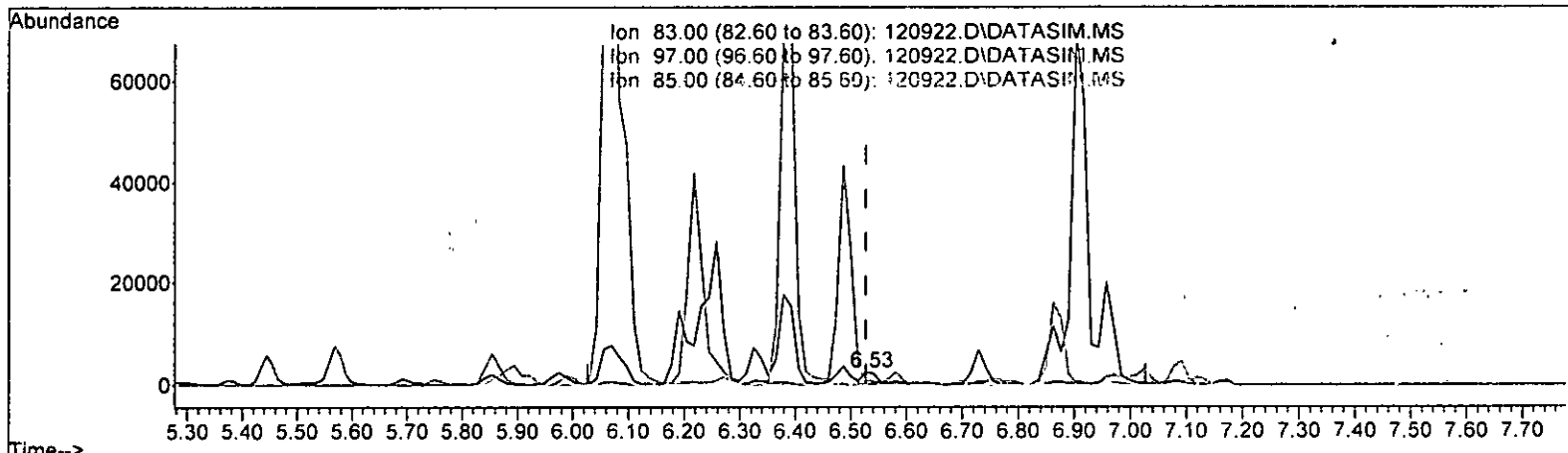
(37) 4-Methyl-2-pentanone (TMP)		
5.997min (-0.014) 1.186 ppb		
response	431	
Ion	Exp%	Act%
85.00	100.00	100.00
100.00	84.30	0.00#
58.00	173.70	74.13#
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120922.D\DATA.MS

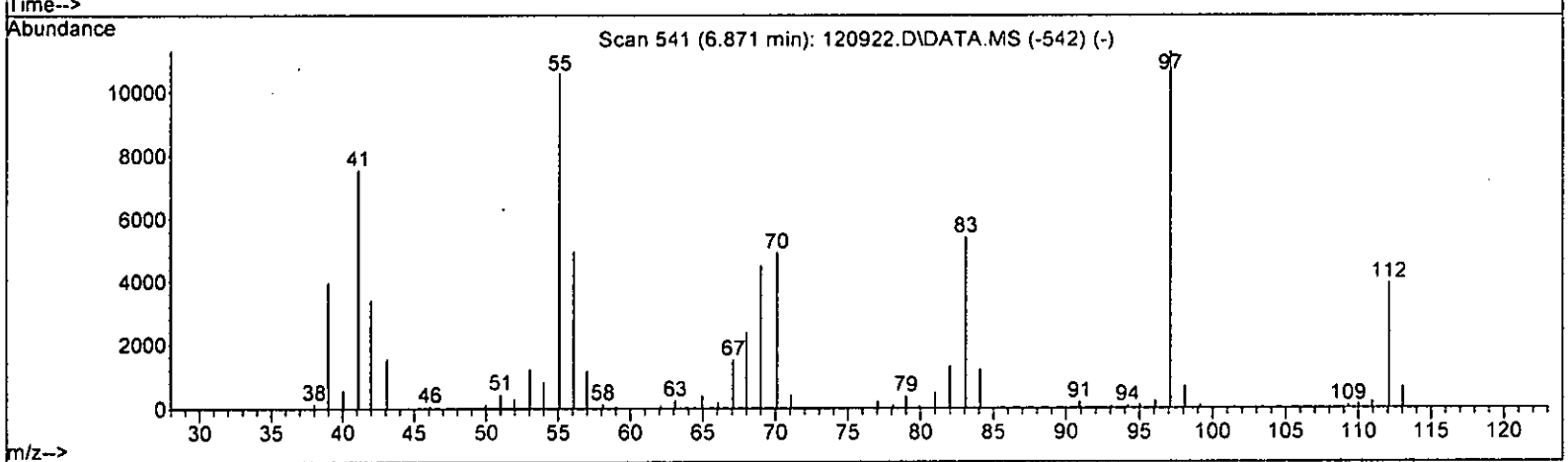
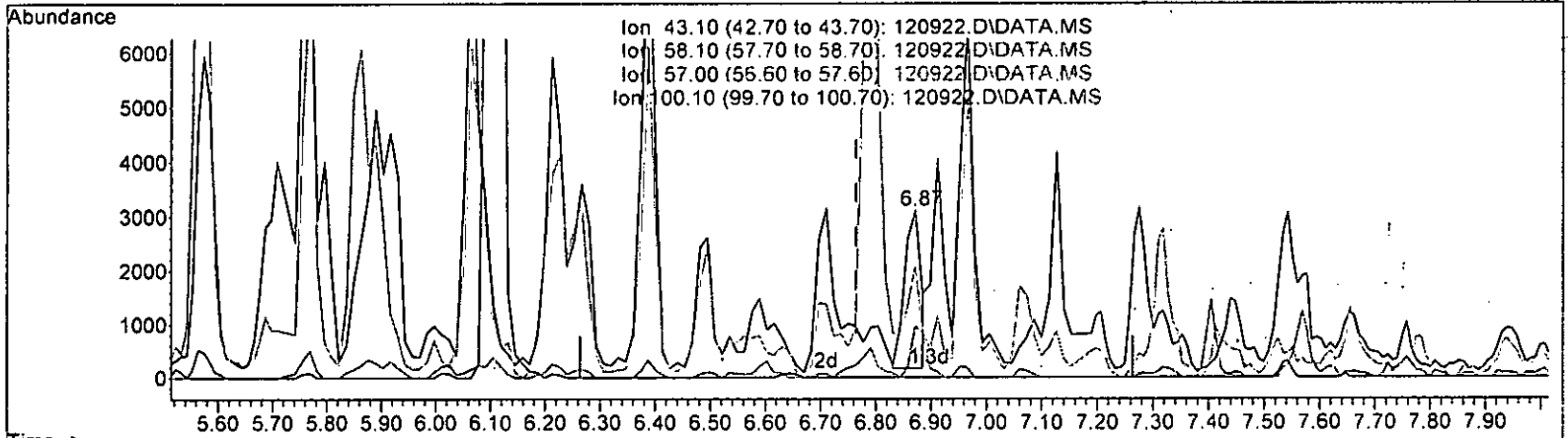
(42) 1,1,2-Trichloroethane (TMP)  
 6.527min (-0.000) 3.562 ppb  
 response 4565

Ion	Exp%	Act%
83.00	100.00	100.00
97.00	151.00	34.15#
85.00	68.80	4.66#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120922.D\DATA.MS

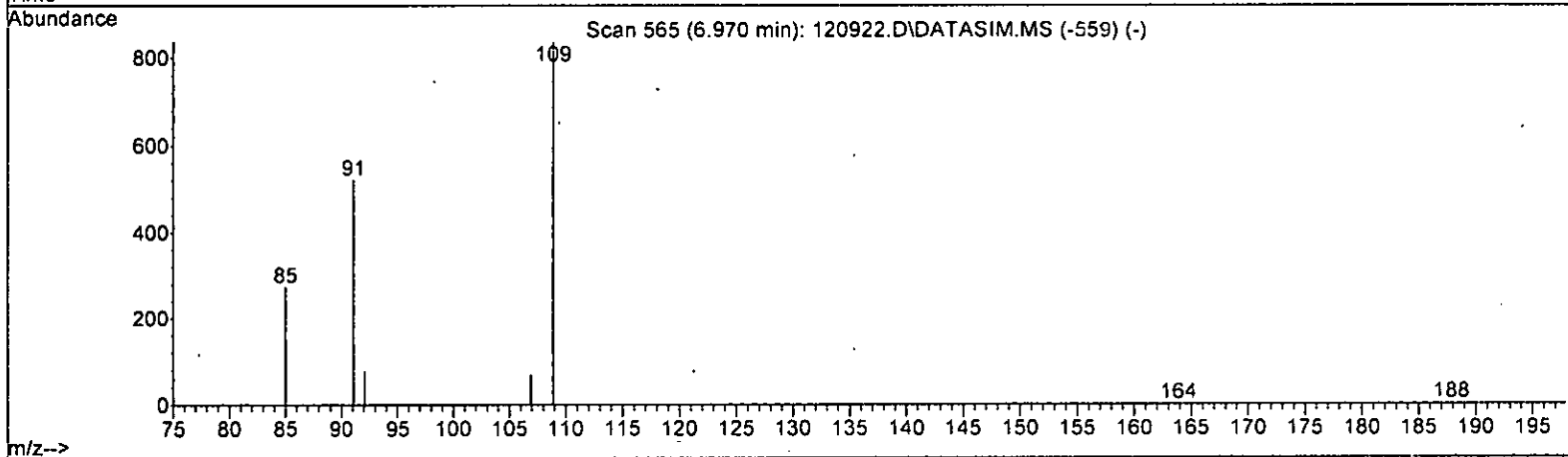
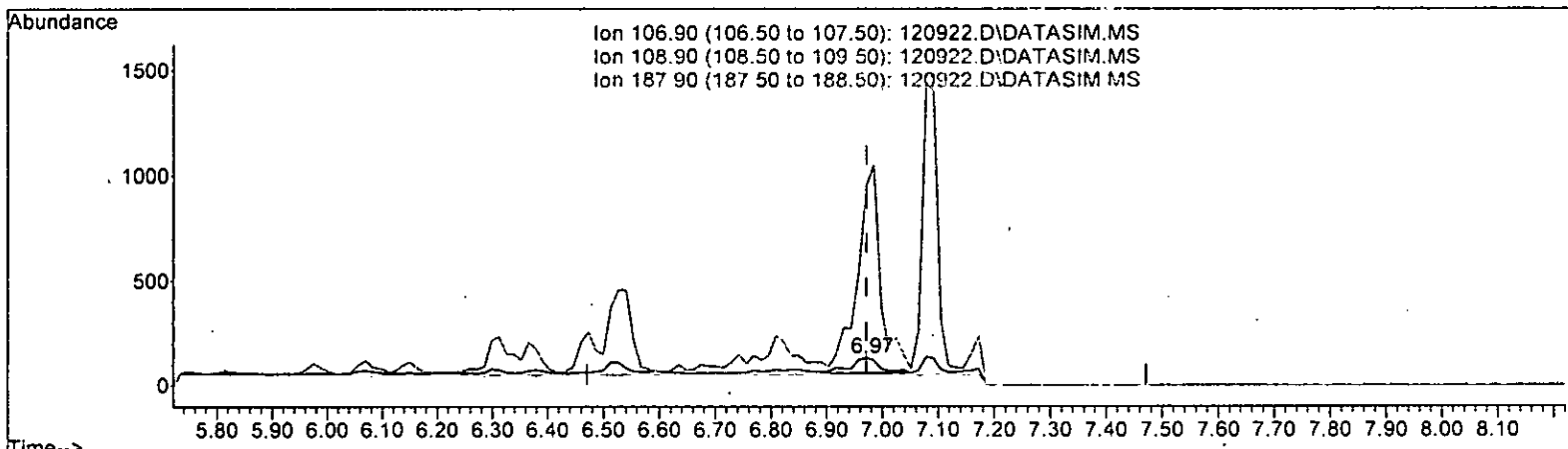
(43) 2-Hexanone (TMP)  
 6.871min (+ 0.107) 6.549 ppb  
 response 6064

Ion	Exp%	Act%
43.10	100.00	100.00
58.10	49.40	30.22
57.00	18.40	43.36
100.10	15.60	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120922.D\DATA.MS

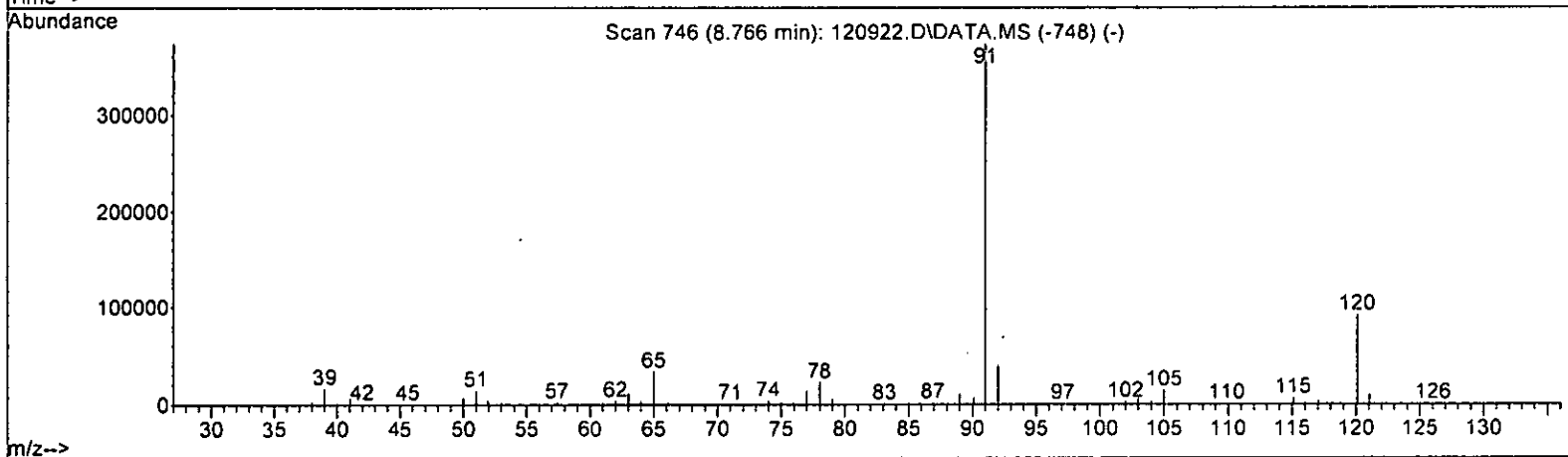
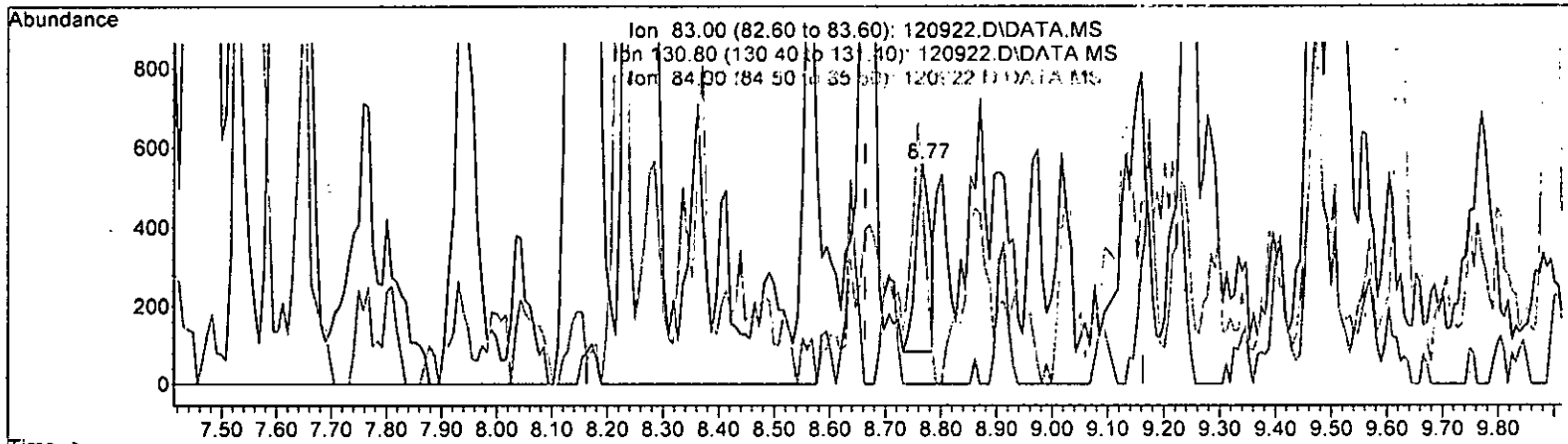
(47) 1,2-Dibromoethane (EDB) (TMP)  
 6.970min (-0.000) 0.112 ppb  
 response 256

Ion	Exp%	Act%
106.90	100.00	100.00
108.90	90.10	1206.94#
187.90	3.10	2.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



TIC: 120922.D\DATA.MS

(61) 1,1,2,2-Tetrachloroethane (TMP)

8.766min (+ 0.103) 0.548 ppb

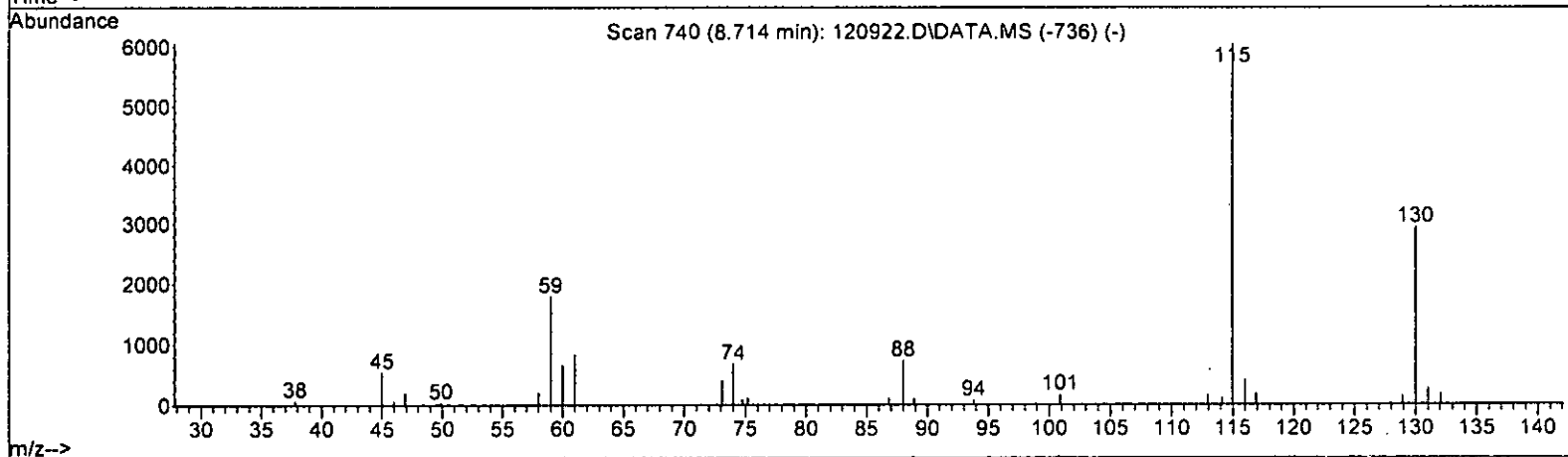
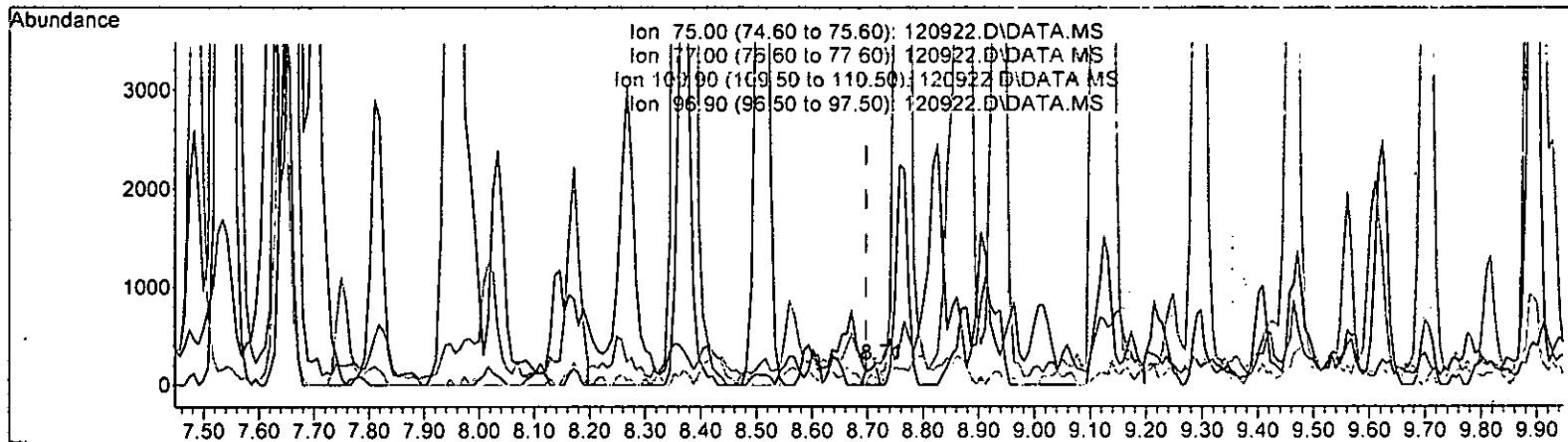
response 835

Ion	Exp%	Act%
83.00	100.00	100.00
130.80	17.80	0.00
84.90	67.50	73.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



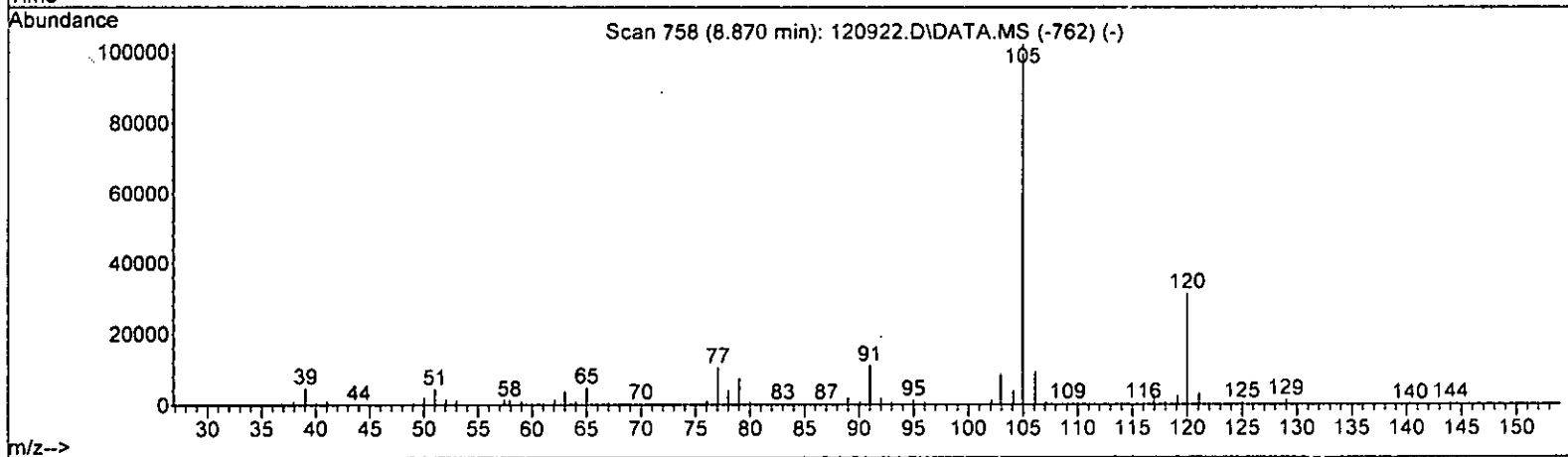
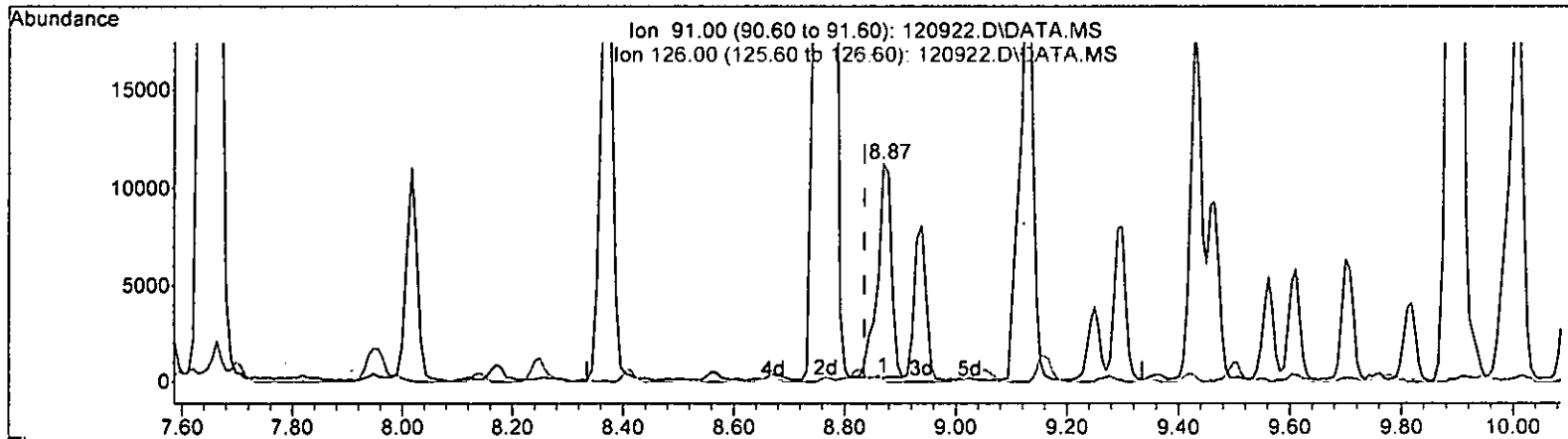
TIC: 120922.D\DATA.MS

(62) 1,2,3-Trichloropropane (TMP)			
8.714min (+ 0.017) 0.223 ppb			
response		261	
Ion	Exp%	Act%	
75.00	100.00	100.00	
77.00	32.60	31.86	
109.90	53.40	0.00#	
96.90	24.30	6.86	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



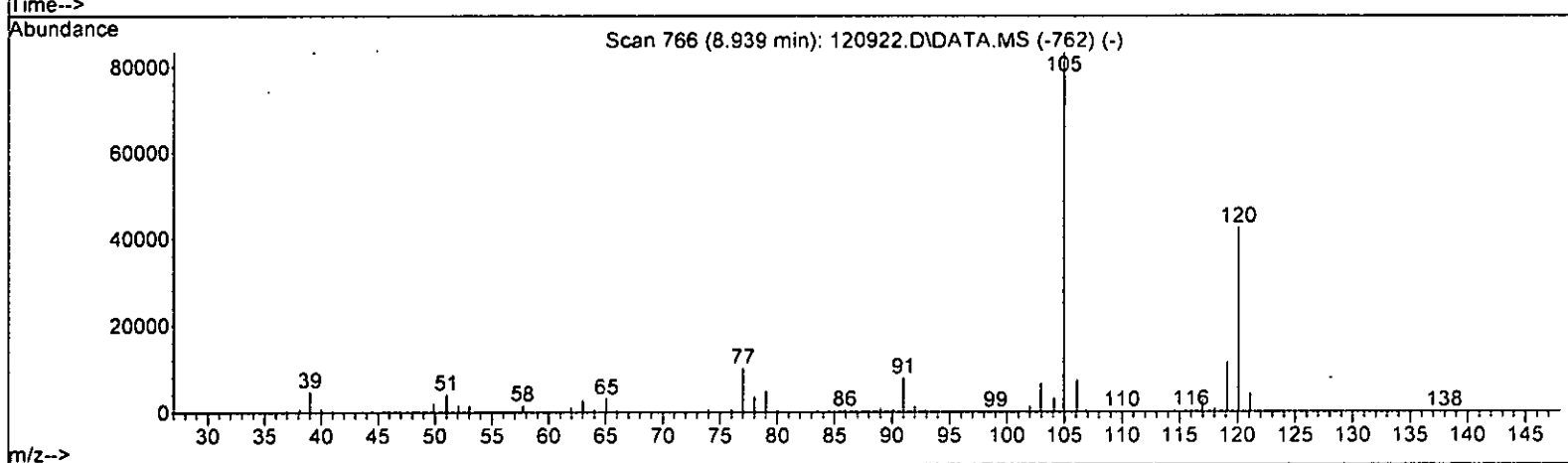
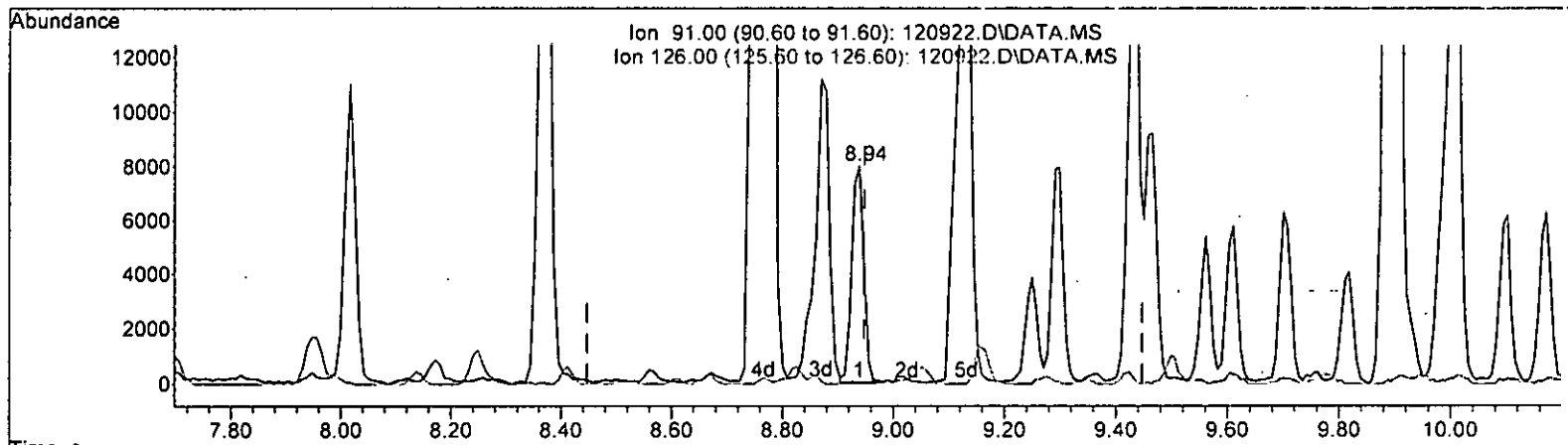
TIC: 120922.D\DATA.MS

(63) 2-Chlorotoluene (TMP)		
8.870min (+ 0.034)	4.296 ppb	
response	19121	
Ion	Exp%	Act%
91.00	100.00	100.00
126.00	49.10	1.05#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



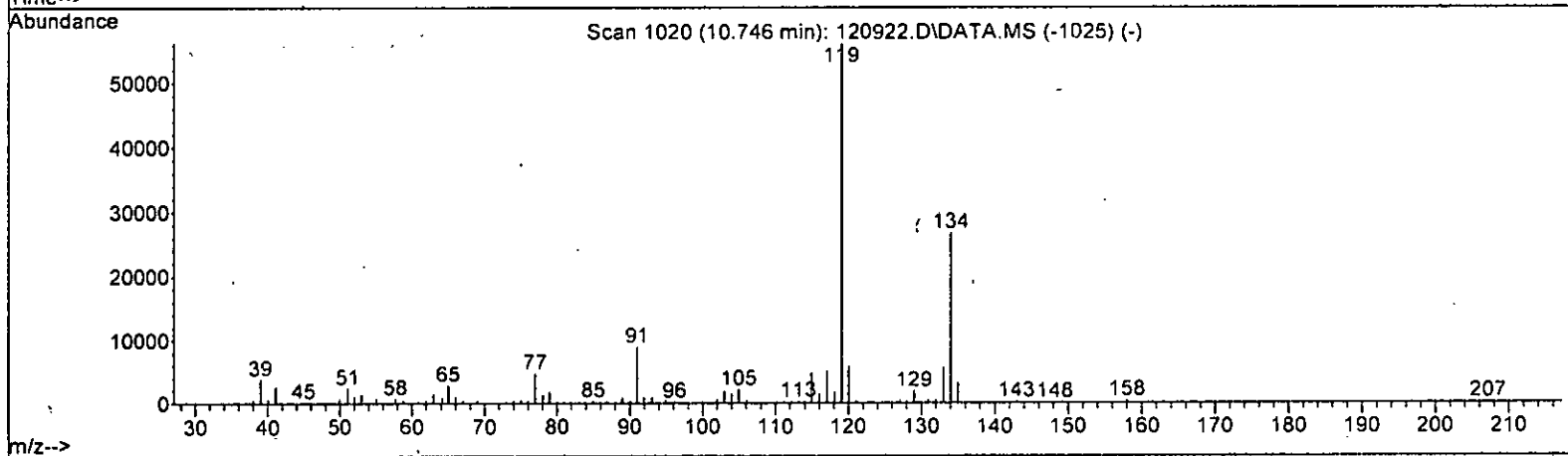
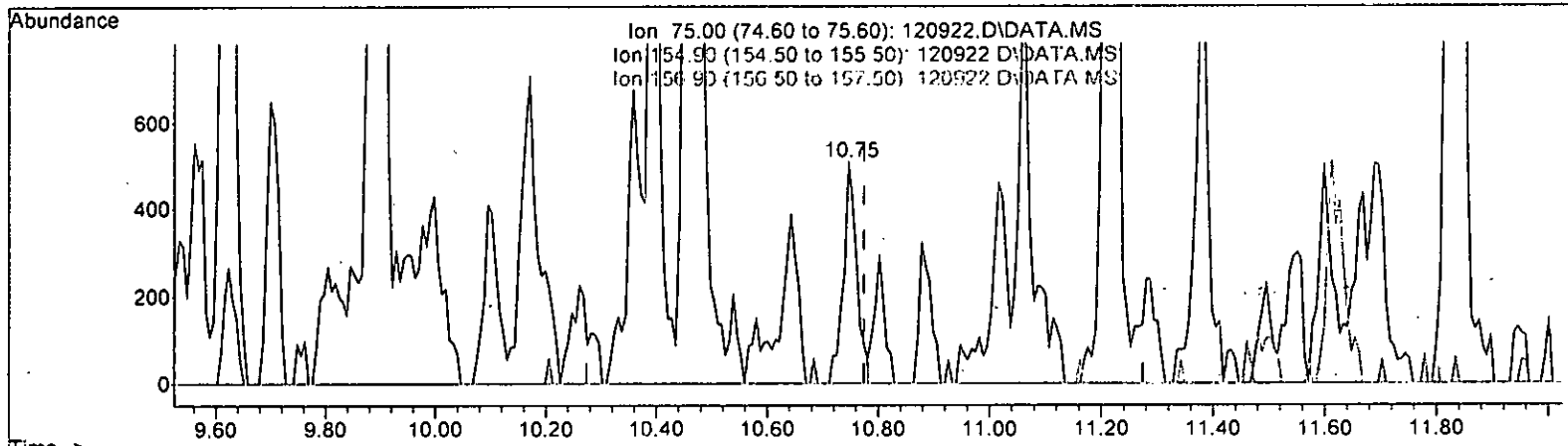
TIC: 120922.D\DATA.MS

(64) 4-Chlorotoluene (TMP)		
8.939min (-0.009) 2.204 ppb		
response	11869	
Ion	Exp%	Act%
91.00	100.00	100.00
126.00	47.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120922.D\DATA.MS

(72) 1,2-Dibromo-3-chloropropane (TMP)

10.746min (-0.028) 2.720 ppb

response 855

Ion	Exp%	Act%
75.00	100.00	100.00
154.90	141.90	0.00#
156.90	184.50	0.00#
0.00	0.00	0.00



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

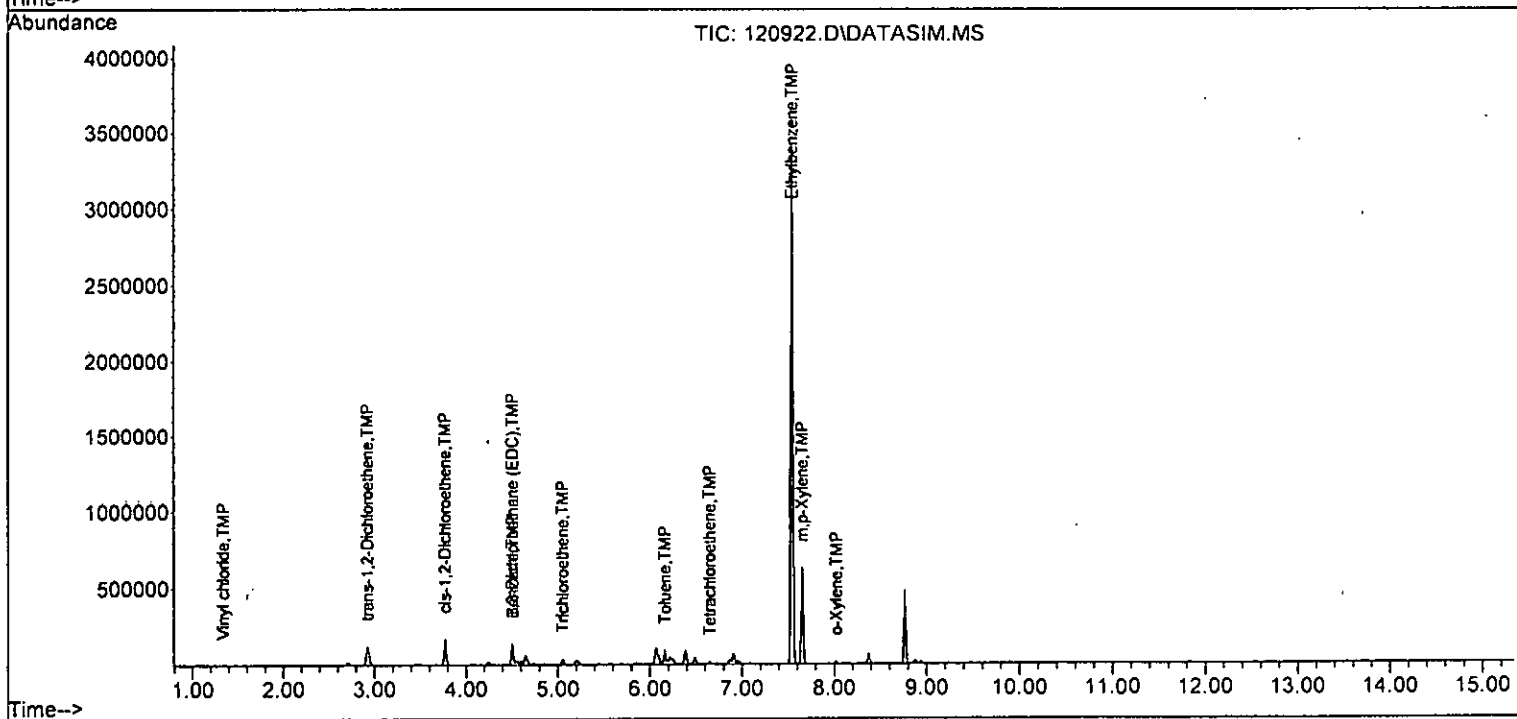
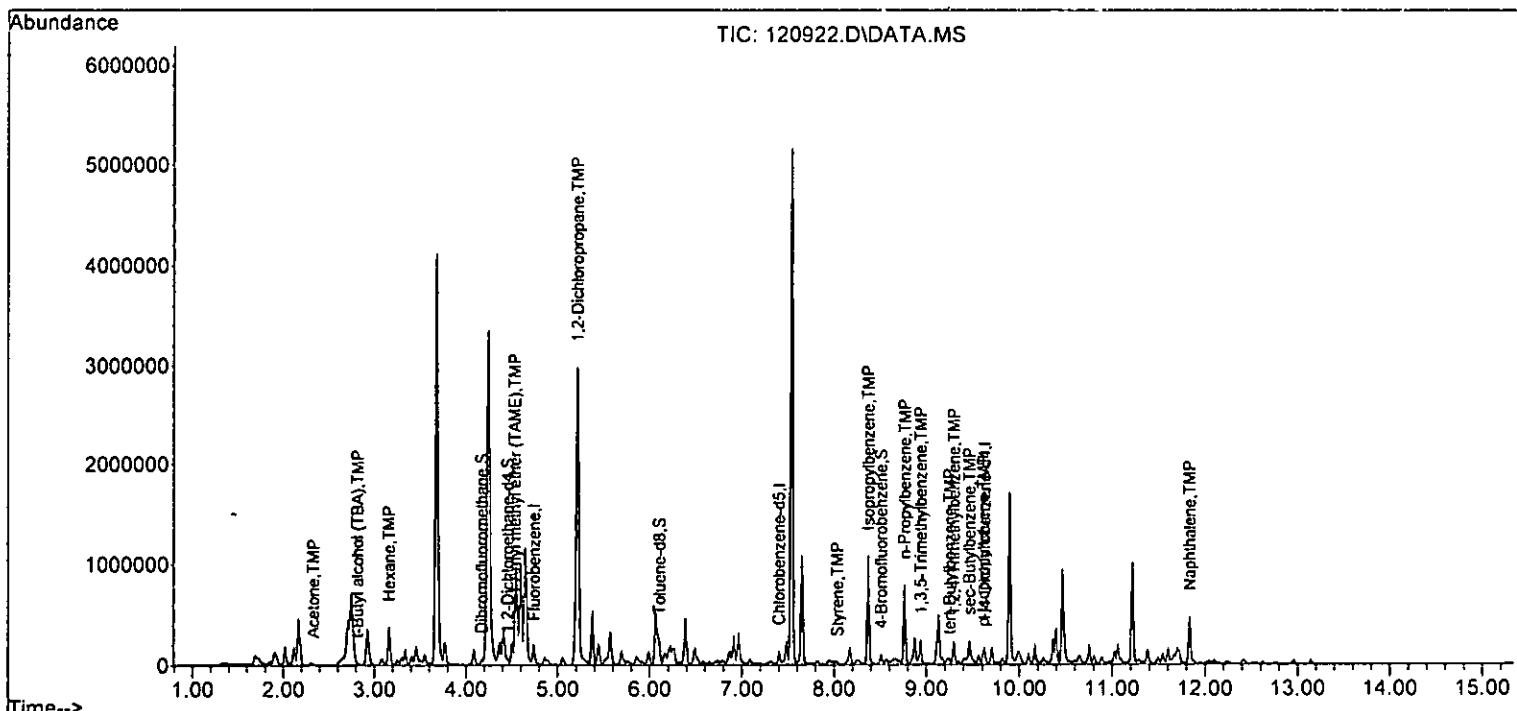
Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

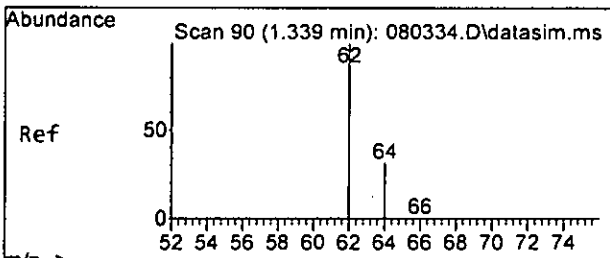
Compound	R.T.	QIOn	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.75	96	91550	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	65422	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	34705	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	24633	8.446	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	84.50%		
30) 1,2-Dichloroethane-d4	4.45	102	5090	9.312	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	93.10%		
35) Toluene-d8	6.10	98	103593	12.589	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	125.90%		
57) 4-Bromofluorobenzene	8.51	95	26457	12.581	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	125.80%		
<b>Target Compounds</b>							
							Qvalue
6] Vinyl chloride	1.34	62	2798m	0.819	ppb		
11) Acetone	2.33	58	1241	7.103	ppb	#	1
13) Hexane	3.16	57	153515	73.747	ppb		92
15) t-Butyl alcohol (TBA)	2.82	59	845	4.139	ppb	#	1
17] trans-1,2-Dichloroethene	2.92	96	3436m	1.368	ppb		
22] cis-1,2-Dichloroethene	3.77	96	97792	36.057	ppb		91
25) t-Amyl methyl ether (T...	4.53	73	8031	1.593	ppb	#	1
26] 1,2-Dichloroethane (EDC)	4.50	62	1671	0.582	ppb		37
31] Benzene	4.50	78	180946	25.002	ppb		98
32] Trichloroethene	5.05	95	15969	5.736	ppb	#	68
33) 1,2-Dichloropropane	5.21	63	11893	7.704	ppb		61
40] Toluene	6.16	92	48536	10.670	ppb		95
45] Tetrachloroethene	6.65	164	5979	2.090	ppb		96
49] Ethylbenzene	7.54	91	3683742	455.822	ppb		94
51] m,p-Xylene	7.65	106	293883	82.672	ppb		79
52] o-Xylene	8.02	106	7763	2.155	ppb		84
53) Styrene	8.03	104	1713	0.309	ppb		95
54) Isopropylbenzene	8.37	105	618161	69.828	ppb		95
58) n-Propylbenzene	8.77	91	581925	74.279	ppb		85
60] 1,3,5-Trimethylbenzene	8.94	105	115189	18.080	ppb		92
65) tert-Butylbenzene	9.25	119	8602	1.274	ppb		91
66] 1,2,4-Trimethylbenzene	9.30	105	106218	15.496	ppb		98
67) sec-Butylbenzene	9.46	105	89720	10.791	ppb		92
68) p-Isopropyltoluene	9.61	119	33811	4.060	ppb		94
75) Naphthalene	11.83	128	337746	50.206	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

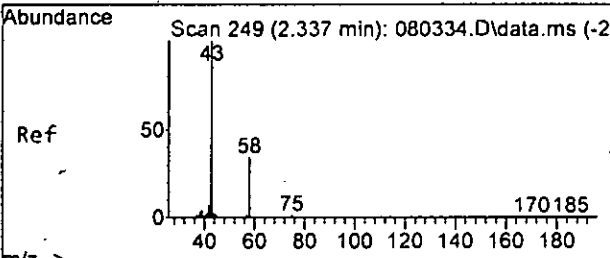
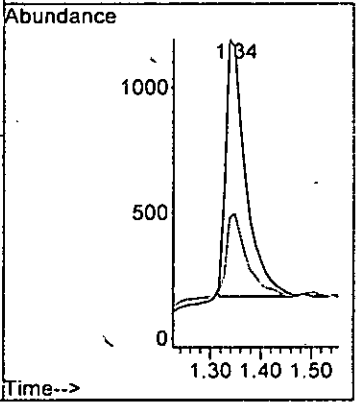
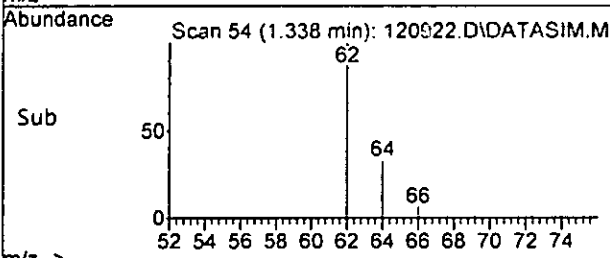
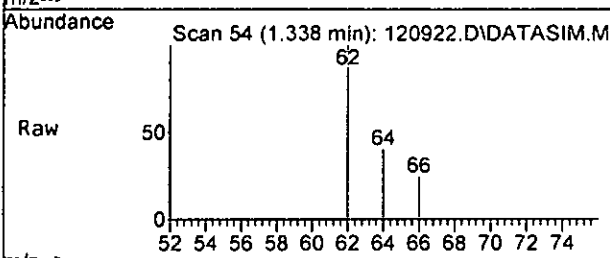
Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M





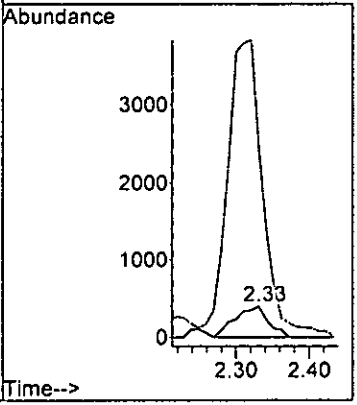
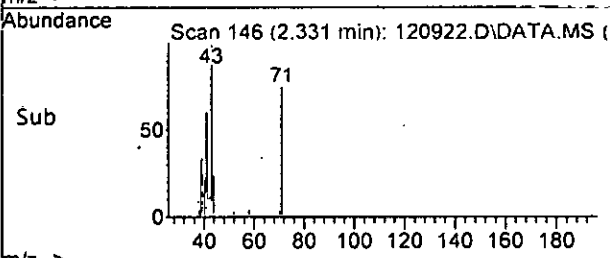
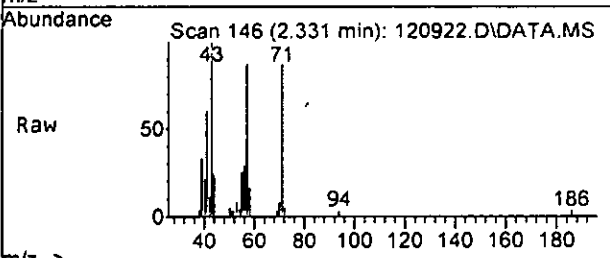
#6  
 Vinyl chloride  
 Concen: 0.819 ppb m  
 RT: 1.34 min Scan# 54  
 Delta R.T. 0.010 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

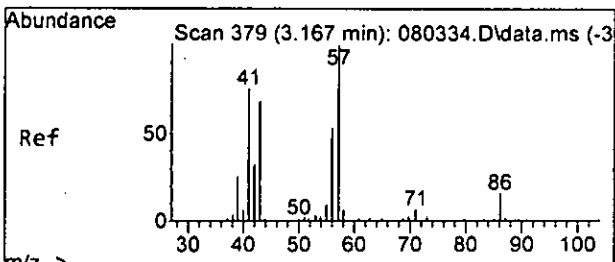
Tgt Ion: 62 Resp: 2798  
 Ion Ratio Lower Upper  
 62 100  
 64 40.1 0.2 60.2



#11  
 Acetone  
 Concen: 7.103 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

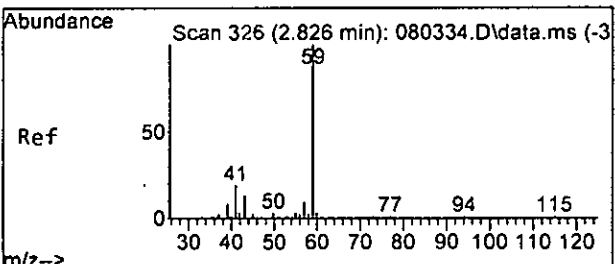
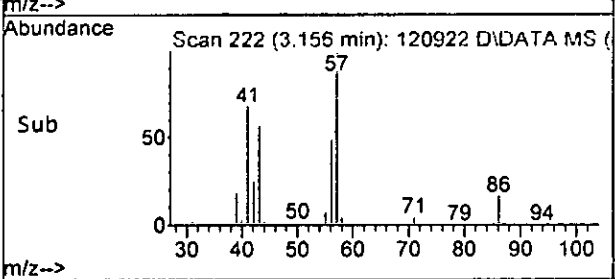
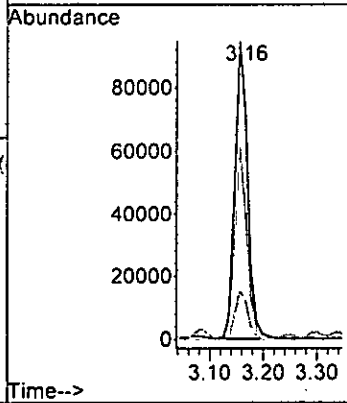
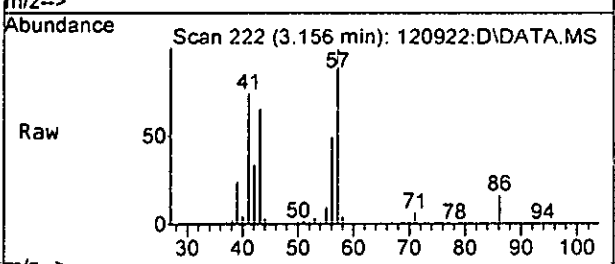
Tgt Ion: 58 Resp: 1241  
 Ion Ratio Lower Upper  
 58 100  
 43 1029.7 350.8 410.8#





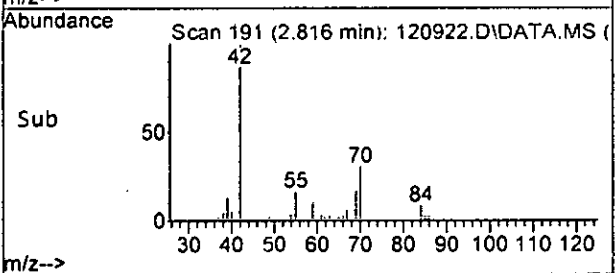
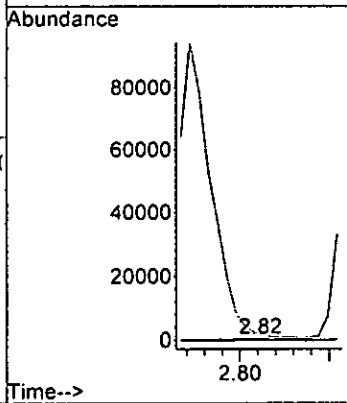
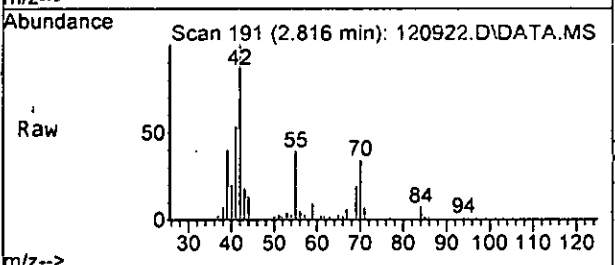
#13  
 Hexane  
 Concen: 73.747 ppb  
 RT: 3.16 min Scan# 222  
 Delta R.T. -0.001 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

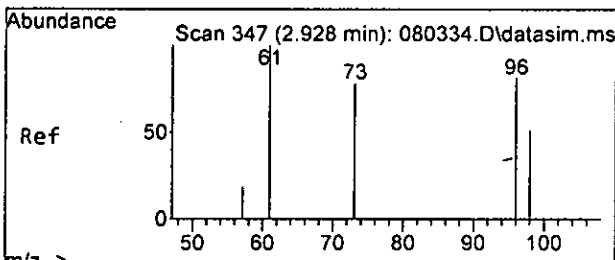
Tgt Ion	Resp	Lower	Upper
57	153515		
43	64.7	28.8	88.8
86	16.2	0.0	51.0



#15  
 t-Butyl alcohol (TBA)  
 Concen: 4.139 ppb  
 RT: 2.82 min Scan# 191  
 Delta R.T. 0.010 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

Tgt Ion	Resp	Lower	Upper
59	845		
41	403.9	0.0	50.8#

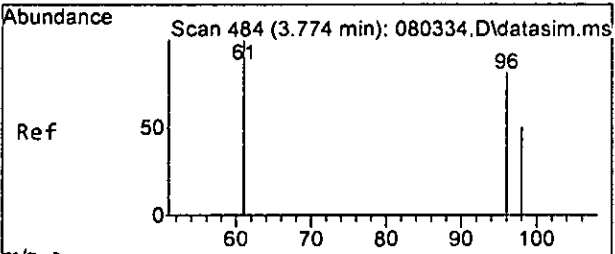
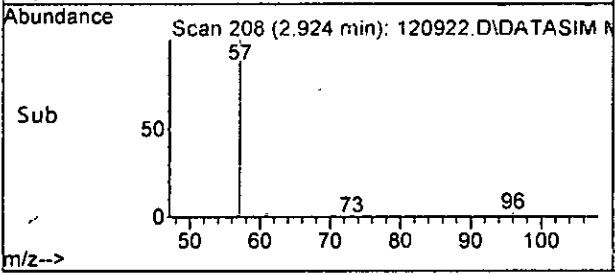
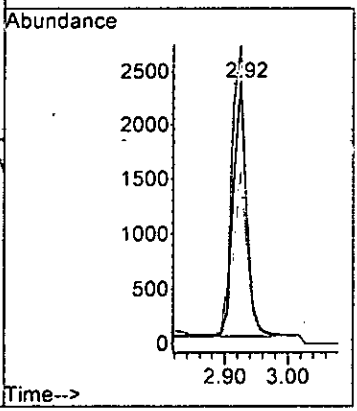
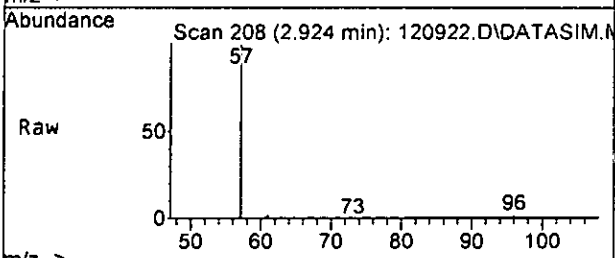




#17  
 trans-1,2-Dichloroethene  
 Concen: 1.368 ppb m  
 RT: 2.92 min Scan# 208  
 Delta R.T. 0.010 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

Tgt Ion: 96 Resp: 3436

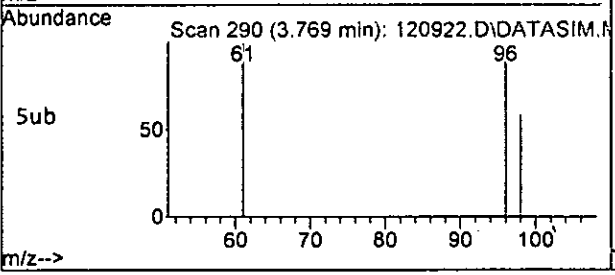
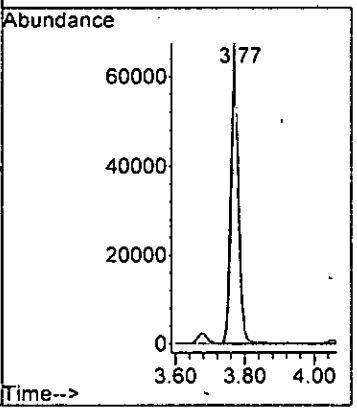
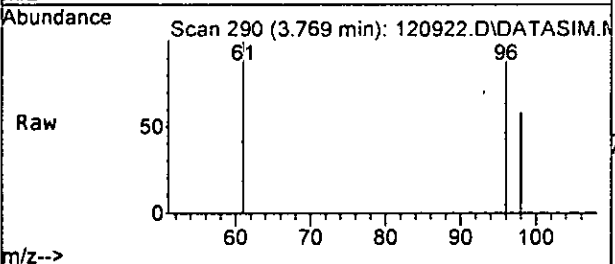
Ion	Ratio	Lower	Upper
96	100		
61	114.5	77.0	137.0
98	65.1	32.7	92.7

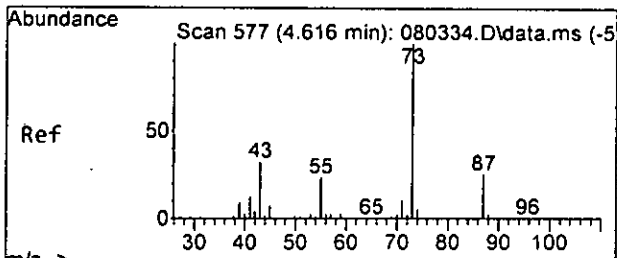


#22  
 cis-1,2-Dichloroethene  
 Concen: 36.057 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

Tgt Ion: 96 Resp: 97792

Ion	Ratio	Lower	Upper
96	100		
61	106.5	67.0	127.0
98	62.0	38.1	98.1

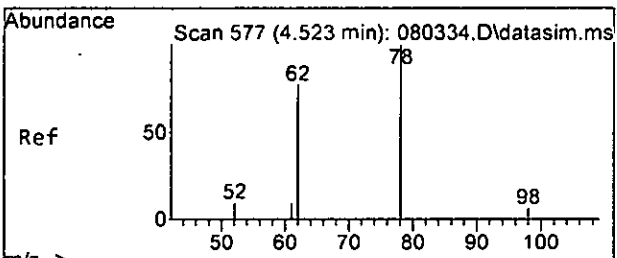
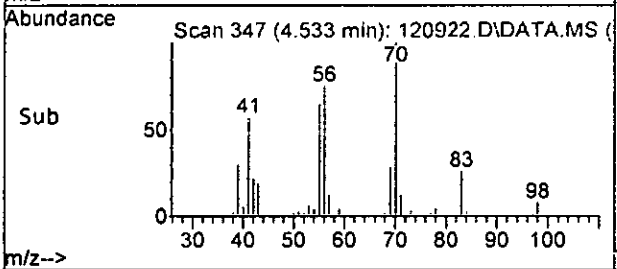
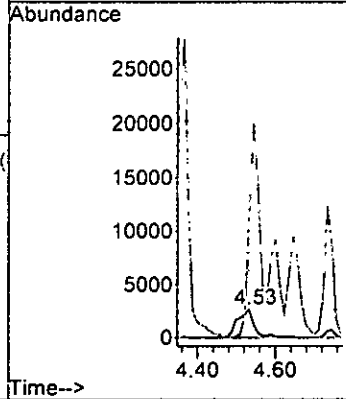
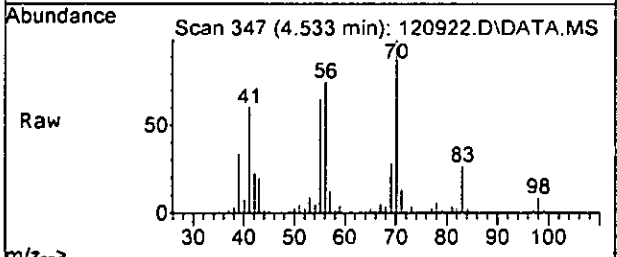




#25  
 t-Amyl methyl ether (TAME)  
 Concen: 1.593 ppb  
 RT: 4.53 min Scan# 347  
 Delta R.T. -0.079 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

Tgt Ion: 73 Resp: 8031

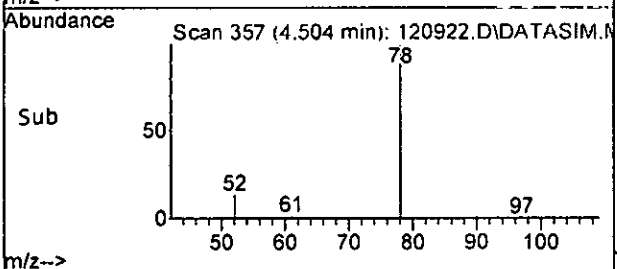
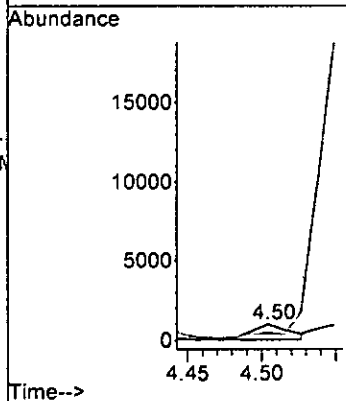
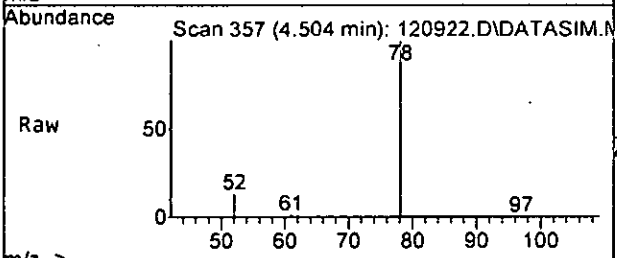
Ion	Ratio	Lower	Upper
73	100		
87	0.0	0.0	59.1
71	397.9	0.0	39.8#

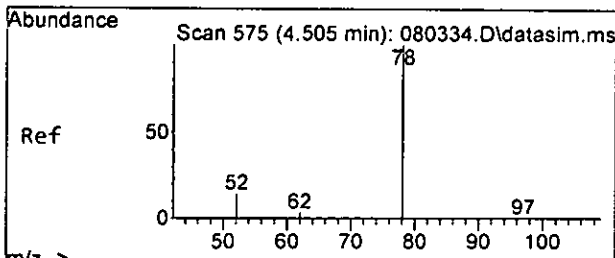


#26  
 1,2-Dichloroethane (EDC)  
 Concen: 0.582 ppb  
 RT: 4.50 min Scan# 357  
 Delta R.T. -0.012 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

Tgt Ion: 62 Resp: 1671

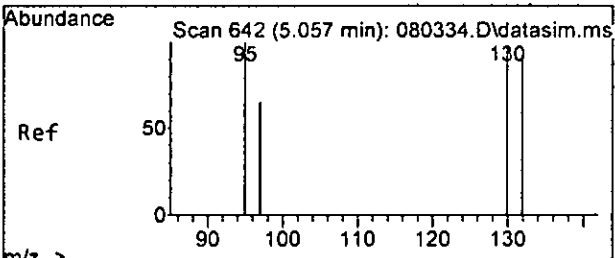
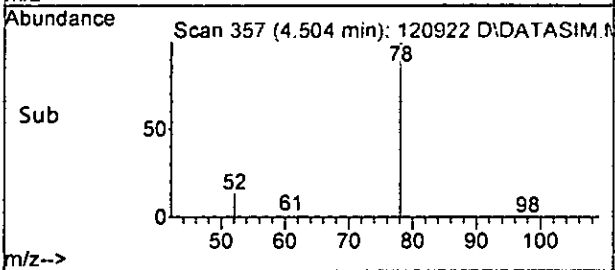
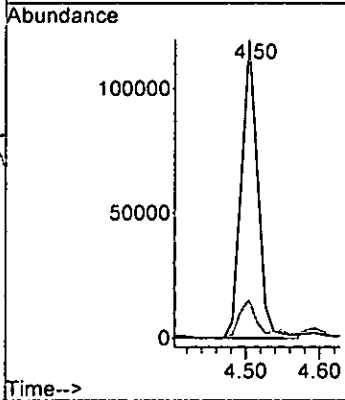
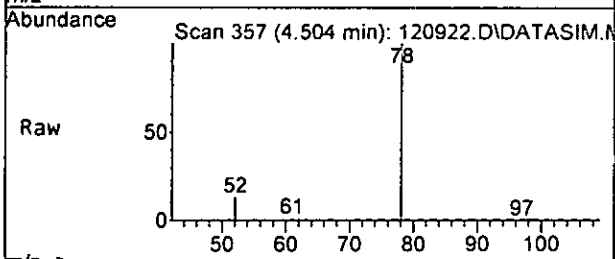
Ion	Ratio	Lower	Upper
62	100		
98	31.7	0.0	38.9





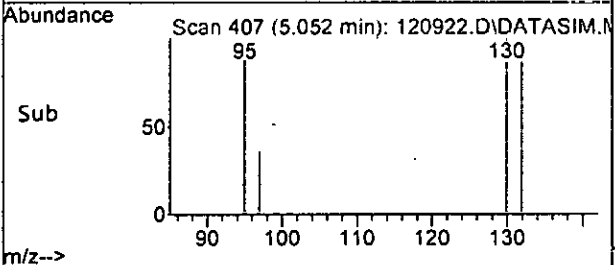
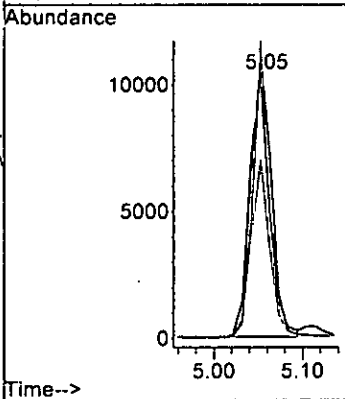
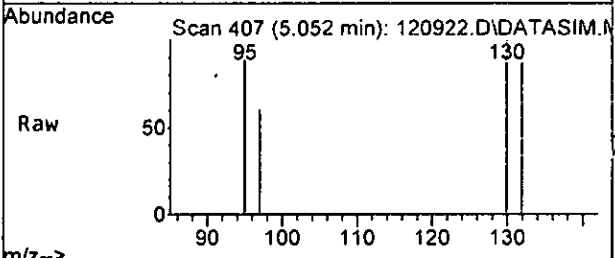
#31  
Benzene  
Concen: 25.002 ppb  
RT: 4.50 min Scan# 357  
Delta R.T. -0.001 min  
Lab File: 120922.D  
Acq: 09 Dec 2022 05:03 pm

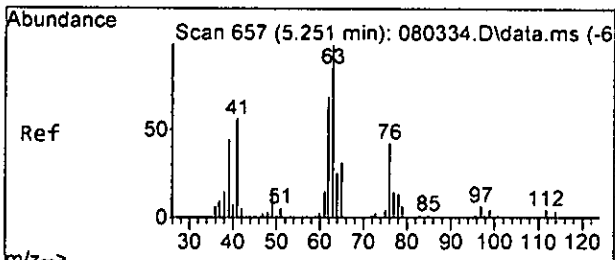
Tgt Ion: 78 Resp: 180946  
Ion Ratio Lower Upper  
78 100  
52 12.7 0.0 42.0



#32  
Trichloroethene  
Concen: 5.736 ppb  
RT: 5.05 min Scan# 407  
Delta R.T. -0.001 min  
Lab File: 120922.D  
Acq: 09 Dec 2022 05:03 pm

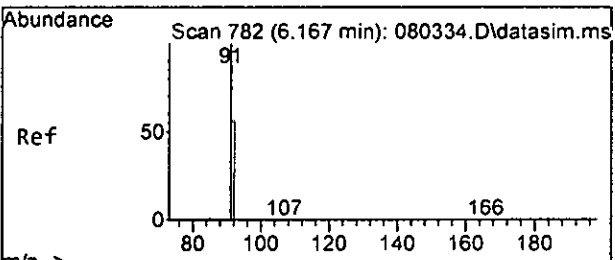
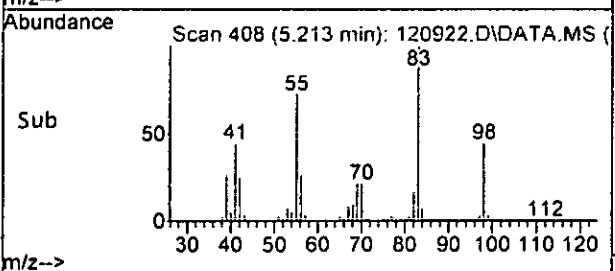
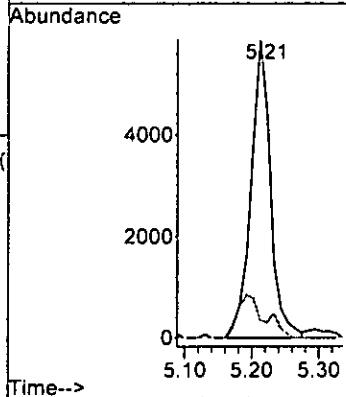
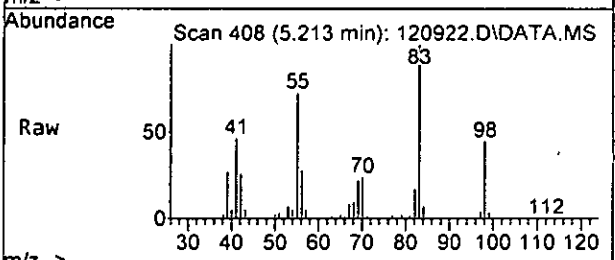
Tgt Ion: 95 Resp: 15969  
Ion Ratio Lower Upper  
95 100  
97 67.0 39.9 99.9  
130 112.7 131.0 191.0#  
132 107.3 130.1 190.1#





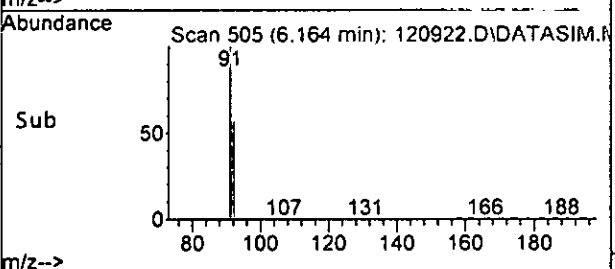
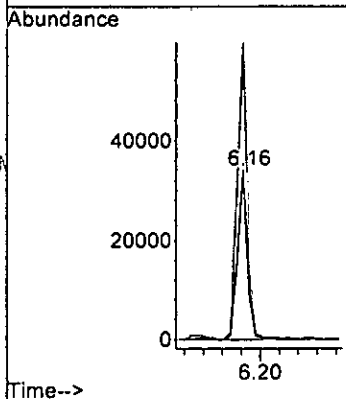
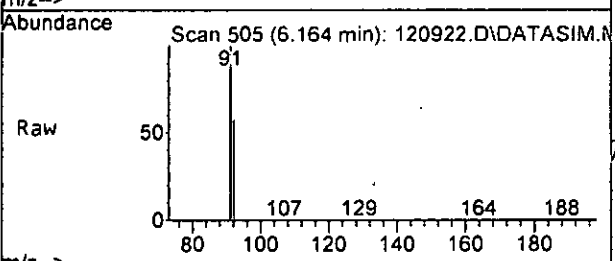
#33  
 1,2-Dichloropropane  
 Concen: 7.704 ppb  
 RT: 5.21 min Scan# 408  
 Delta R.T. -0.031 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

Tgt Ion: 63 Resp: 11893  
 Ion Ratio Lower Upper  
 63 100  
 112 19.7 0.0 36.5

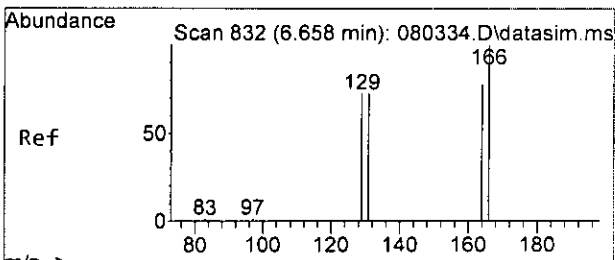


#40  
 Toluene  
 Concen: 10.670 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

Tgt Ion: 92 Resp: 48536  
 Ion Ratio Lower Upper  
 92 100  
 91 174.0 137.5 197.5



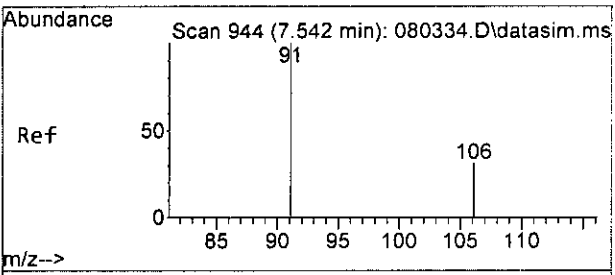
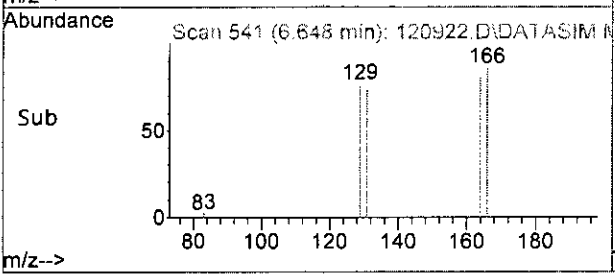
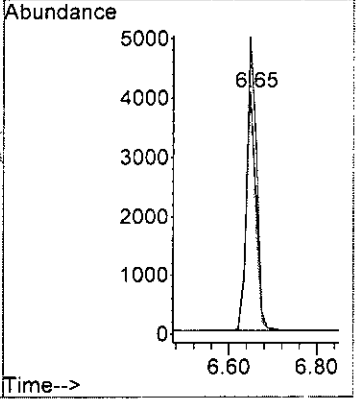
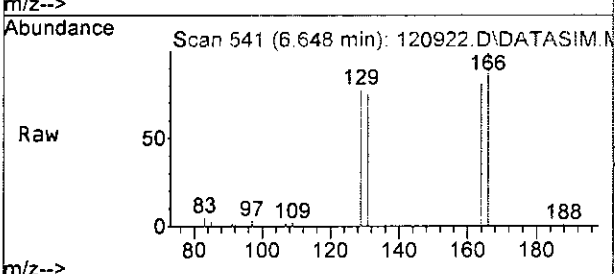




#45  
 Tetrachloroethene  
 Concen: 2.090 ppb  
 RT: 6.65 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

Tgt Ion: 164 Resp: 5979

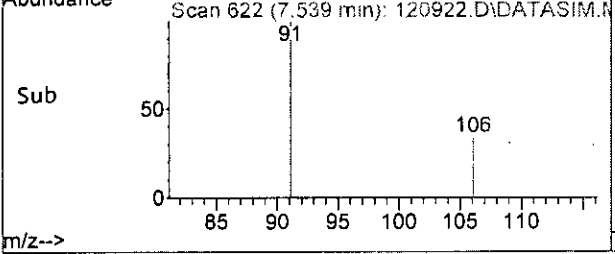
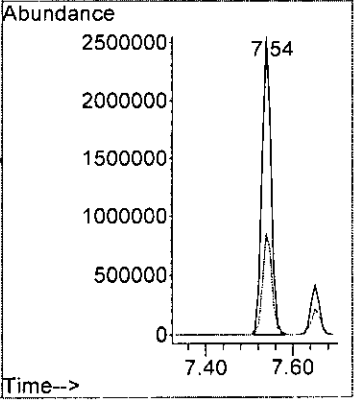
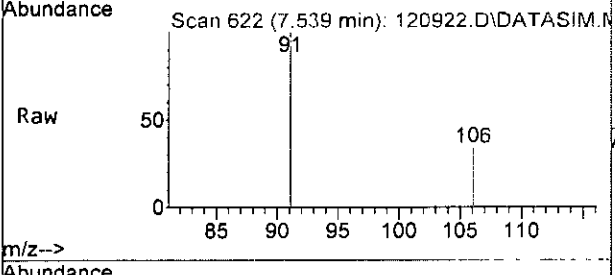
Ion	Ratio	Lower	Upper
164	100		
129	95.5	60.6	120.6
131	91.7	58.0	118.0
166	123.5	95.8	155.8

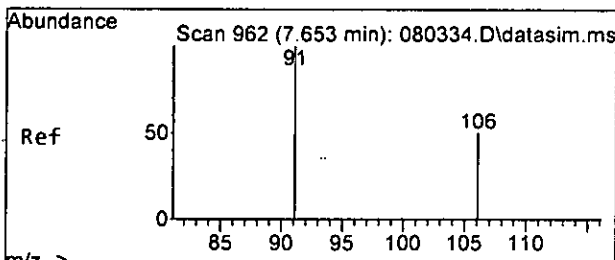


#49  
 Ethylbenzene  
 Concen: 455.822 ppb  
 RT: 7.54 min Scan# 622  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

Tgt Ion: 91 Resp: 3683742

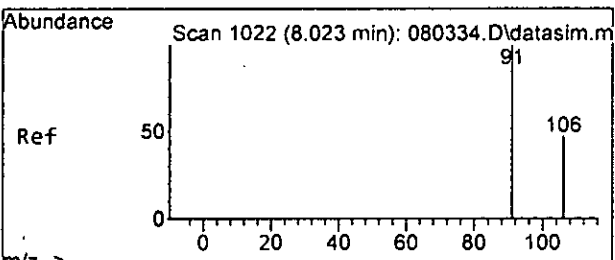
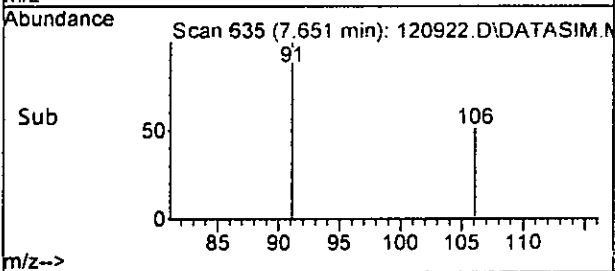
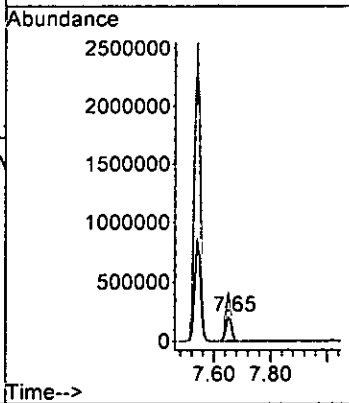
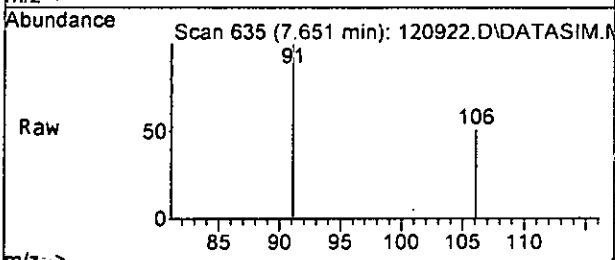
Ion	Ratio	Lower	Upper
91	100		
106	33.8	7.1	67.1





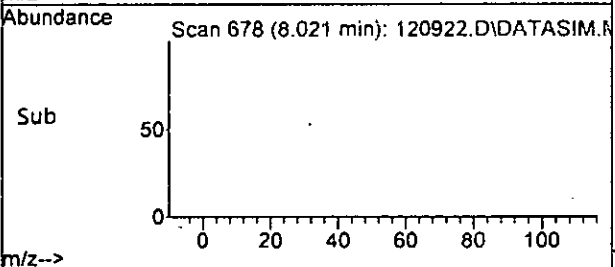
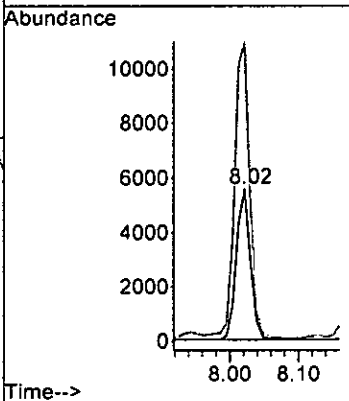
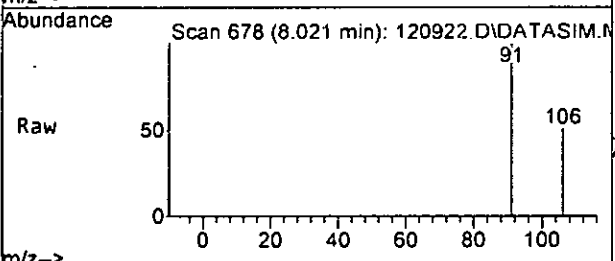
#51  
 m,p-Xylene  
 Concen: 82.672 ppb  
 RT: 7.65 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

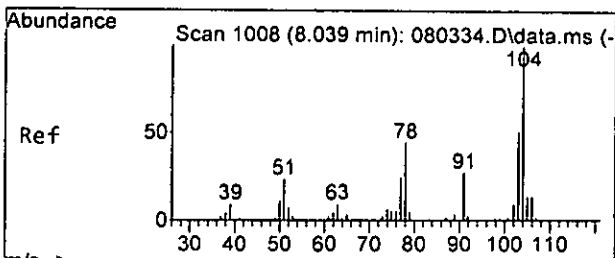
Tgt Ion: 106 Resp: 293883  
 Ion Ratio Lower Upper  
 106 100  
 91 196.3 138.1 198.1



#52  
 o-Xylene  
 Concen: 2.155 ppb  
 RT: 8.02 min Scan# 678  
 Delta R.T. -0.001 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

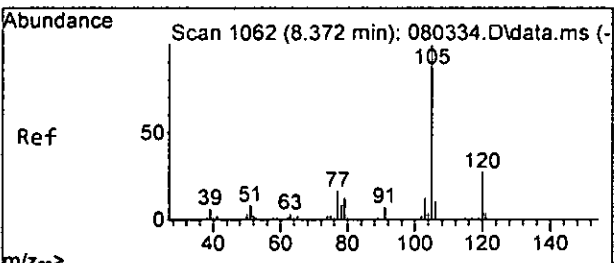
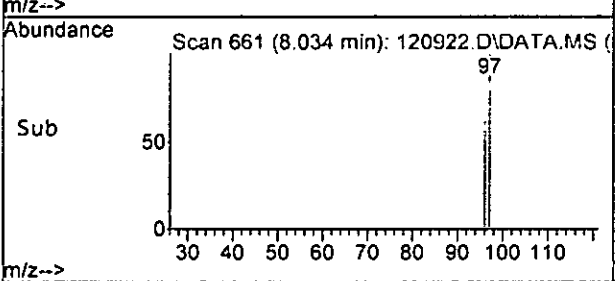
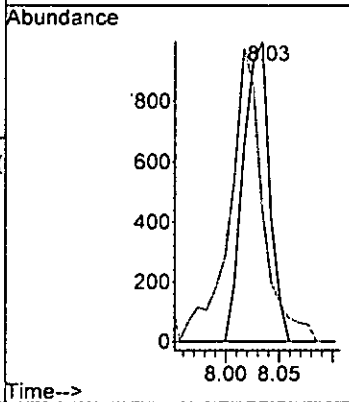
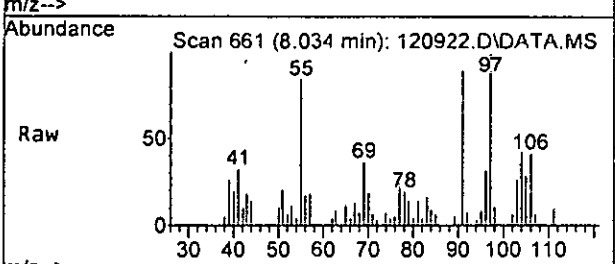
Tgt Ion: 106 Resp: 7763  
 Ion Ratio Lower Upper  
 106 100  
 91 196.3 143.9 203.9





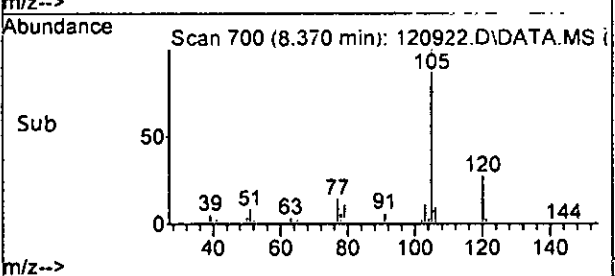
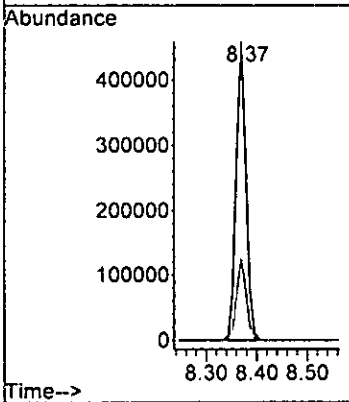
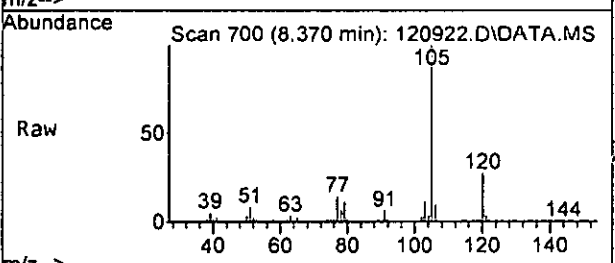
#53  
 Styrene  
 Concen: 0.309 ppb  
 RT: 8.03 min Scan# 661  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

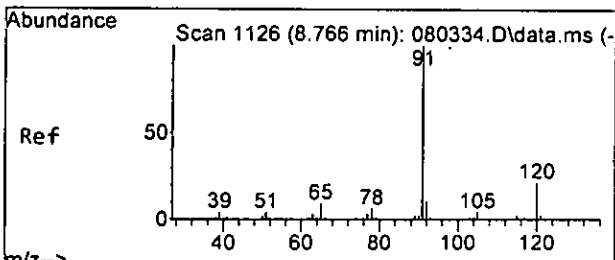
Tgt Ion: 104 Resp: 1713  
 Ion Ratio Lower Upper  
 104 100  
 78 38.3 5.2 65.2



#54  
 Isopropylbenzene  
 Concen: 69.828 ppb  
 RT: 8.37 min Scan# 700  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

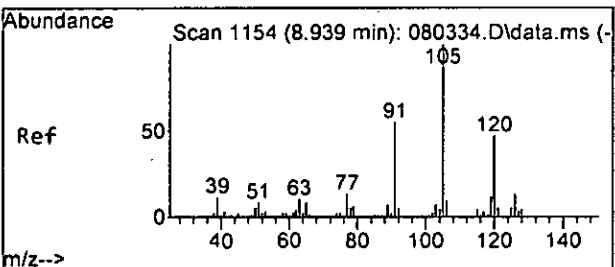
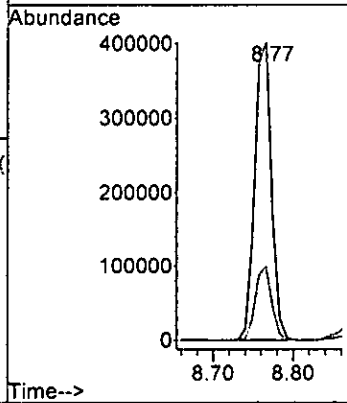
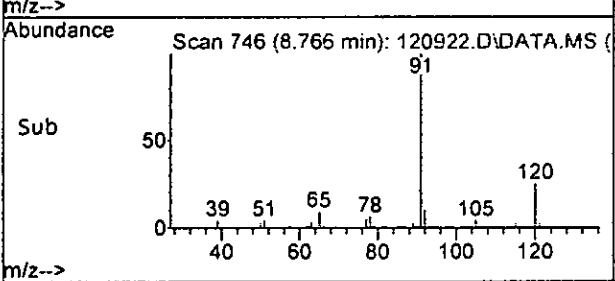
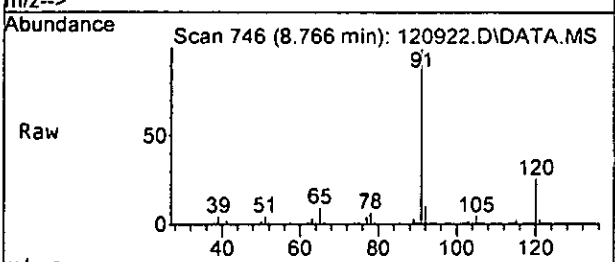
Tgt Ion: 105 Resp: 618161  
 Ion Ratio Lower Upper  
 105 100  
 120 27.3 0.1 60.1





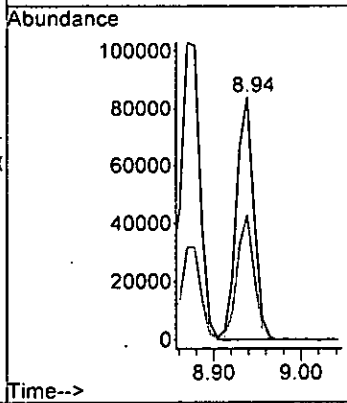
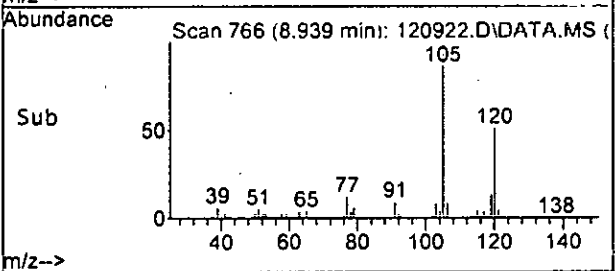
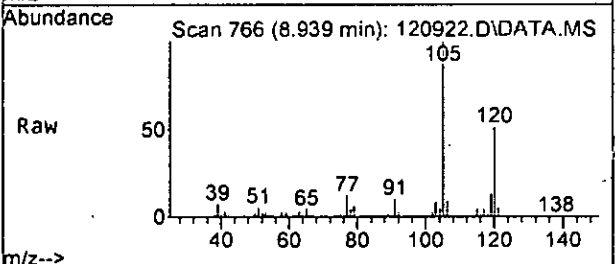
#58  
 n-Propylbenzene  
 Concen: 74.279 ppb  
 RT: 8.77 min Scan# 746  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

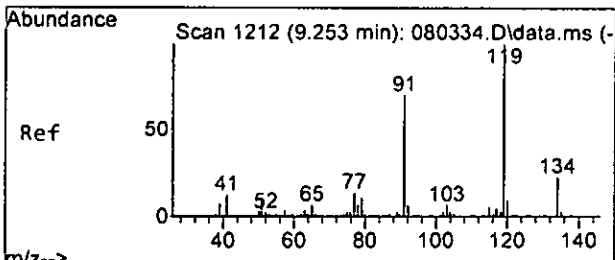
Tgt Ion: 91 Resp: 581925  
 Ion Ratio Lower Upper  
 91 100  
 120 24.8 3.2 63.2



#60  
 1,3,5-Trimethylbenzene  
 Concen: 18.080 ppb  
 RT: 8.94 min Scan# 766  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

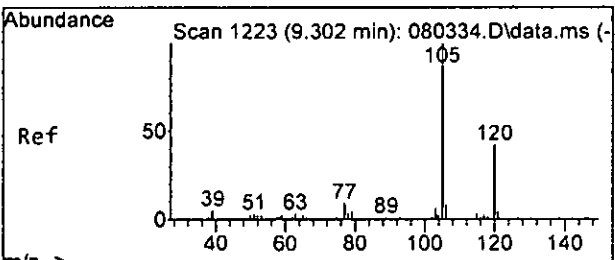
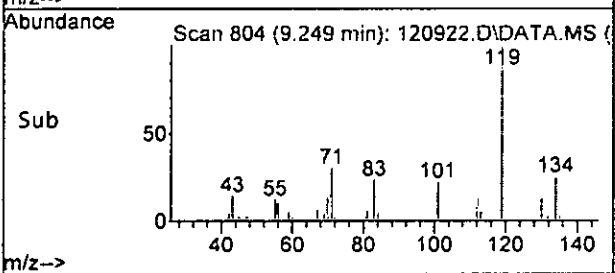
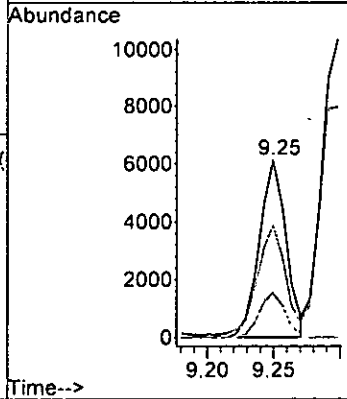
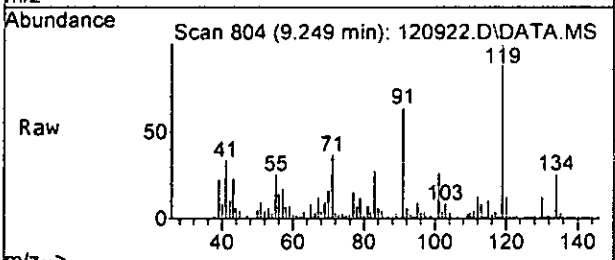
Tgt Ion: 105 Resp: 115189  
 Ion Ratio Lower Upper  
 105 100  
 120 51.1 26.8 86.8





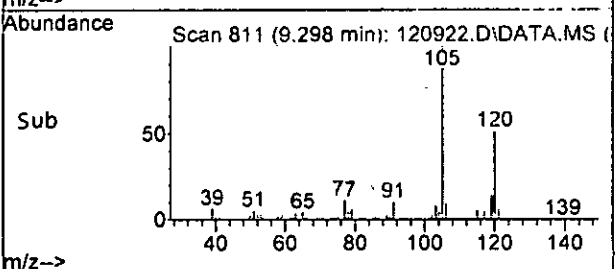
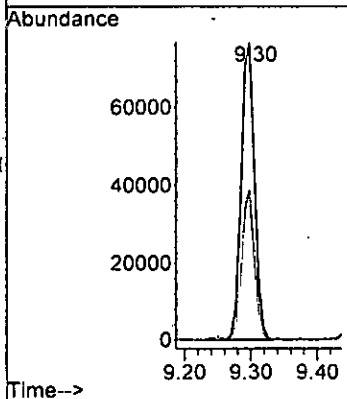
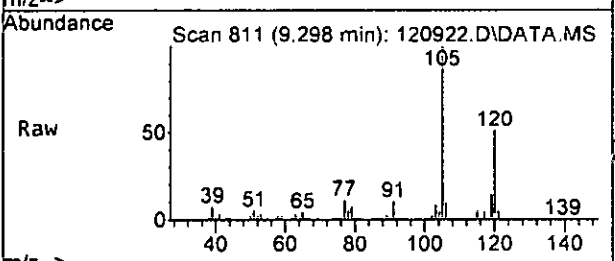
#65  
 tert-Butylbenzene  
 Concen: 1.274 ppb  
 RT: 9.25 min Scan# 804  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

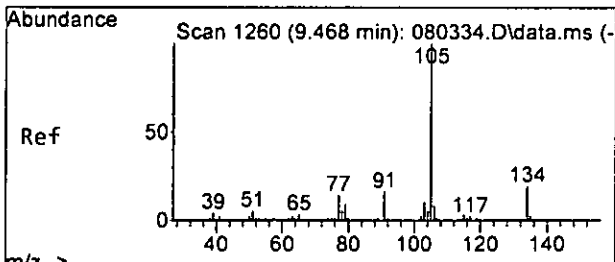
Tgt Ion	Resp	Lower	Upper
119	100		
91	61.7	22.5	82.5
134	25.3	0.0	55.1



#66  
 1,2,4-Trimethylbenzene  
 Concen: 15.496 ppb  
 RT: 9.30 min Scan# 811  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

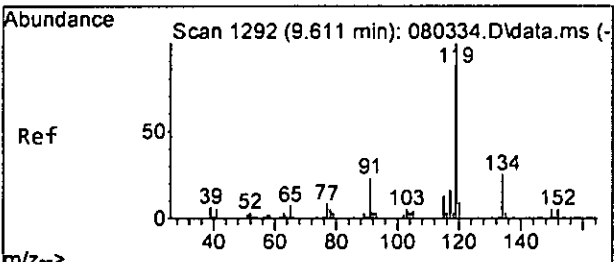
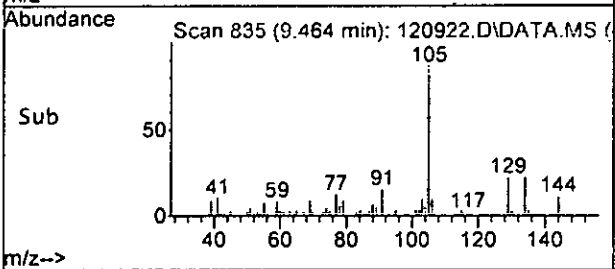
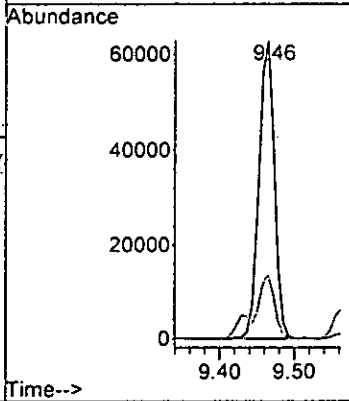
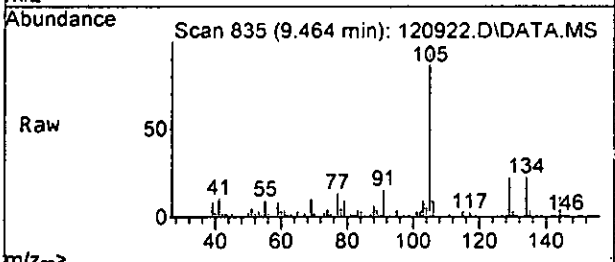
Tgt Ion	Resp	Lower	Upper
105	100		
120	50.7	21.9	81.9





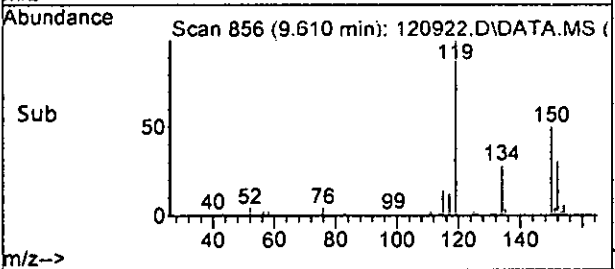
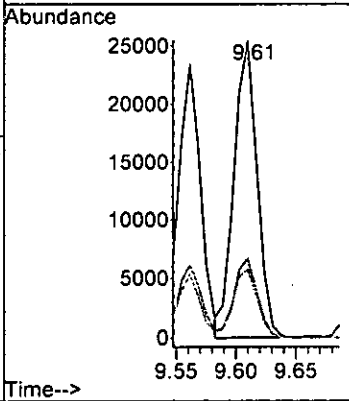
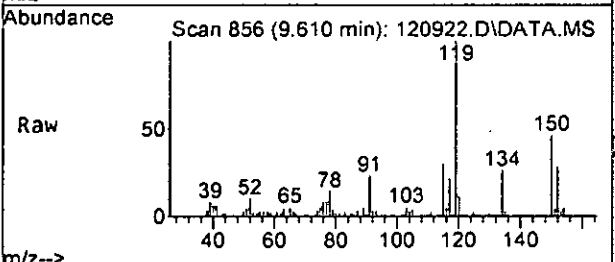
#67  
 sec-Butylbenzene  
 Concen: 10.791 ppb  
 RT: 9.46 min Scan# 835  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

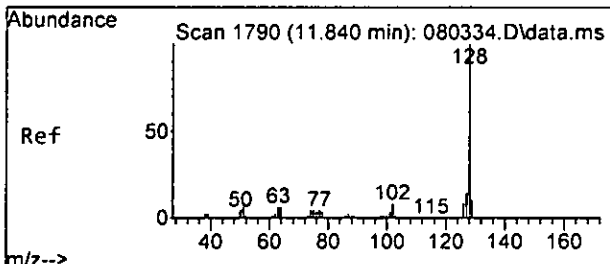
Tgt Ion: 105 Resp: 89720  
 Ion Ratio Lower Upper  
 105 100  
 134 21.9 0.0 56.0



#68  
 p-Isopropyltoluene  
 Concen: 4.060 ppb  
 RT: 9.61 min Scan# 856  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

Tgt Ion: 119 Resp: 33811  
 Ion Ratio Lower Upper  
 119 100  
 134 26.4 0.0 59.2  
 91 22.5 0.0 49.1

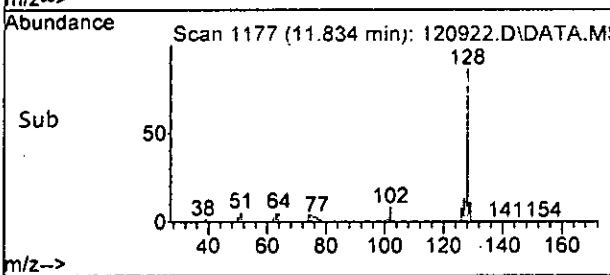
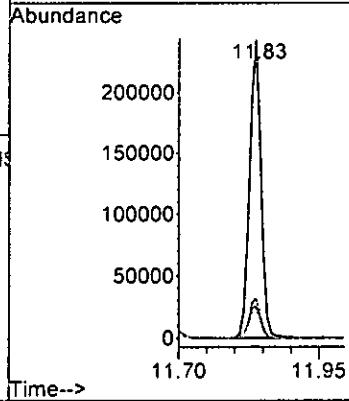
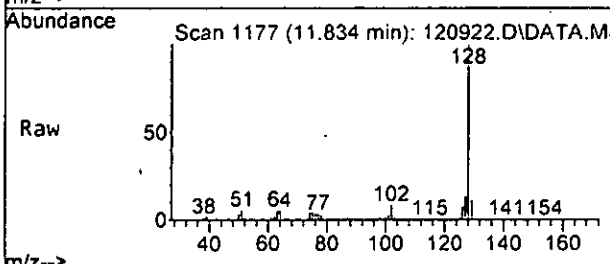




#75  
 Naphthalene  
 Concen: 50.206 ppb  
 RT: 11.83 min Scan# 1177  
 Delta R.T. -0.000 min  
 Lab File: 120922.D  
 Acq: 09 Dec 2022 05:03 pm

Tgt Ion: 128 Resp: 337746

Ion	Ratio	Lower	Upper
128	100		
129	10.7	0.0	41.5
127	13.4	0.0	44.0



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.75	96	91550	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	65422	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	34705	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	24633	8.446	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	84.50%		
30) 1,2-Dichloroethane-d4	4.45	102	5090	9.312	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	93.10%		
35) Toluene-d8	6.10	98	103593	12.589	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	125.90%		
57) 4-Bromofluorobenzene	8.51	95	26457	12.581	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	125.80%		
Target Compounds							
2) Ethanol	2.36	45	273	No Calib	#		
4) Dichlorodifluoromethane	1.13	85	79	N.D.			
5) Chloromethane	1.28	50	320	N.D.			
6] Vinyl chloride	1.34	62	2798m	0.819	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.36	45	273	No Calib			
11) Acetone	2.33	58	1241	7.103	ppb	#	1
12) 1,1-Dichloroethene	0.00		0	N.D.	d		
13) Hexane	3.16	57	153515	73.747	ppb		92
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.82	59	845	4.139	ppb	#	1
16] Methyl t-butyl ether (...)	0.00		0	N.D.	d		
17] trans-1,2-Dichloroethene	2.92	96	3436m	1.368	ppb		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.	d		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.	d		
22] cis-1,2-Dichloroethene	3.77	96	97792	36.057	ppb		91
23) Chloroform	0.00		0	N.D.	d		
24) 2-Butanone (MEK)	0.00		0	N.D.			
25) t-Amyl methyl ether (T...)	4.53	73	8031	1.593	ppb	#	1
26] 1,2-Dichloroethane (EDC)	4.50	62	1671	0.582	ppb		37
27) 1,1,1-Trichloroethane	0.00		0	N.D.	d		
28) 1,1-Dichloropropene	4.41	75	175	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	180946	25.002	ppb		98
32] Trichloroethene	5.05	95	15969	5.736	ppb	#	68
33) 1,2-Dichloropropane	5.21	63	11893	7.704	ppb		61
34) Bromodichloromethane	0.00		0	N.D.	d		
36) Dibromomethane	5.38	93	144	N.D.			



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

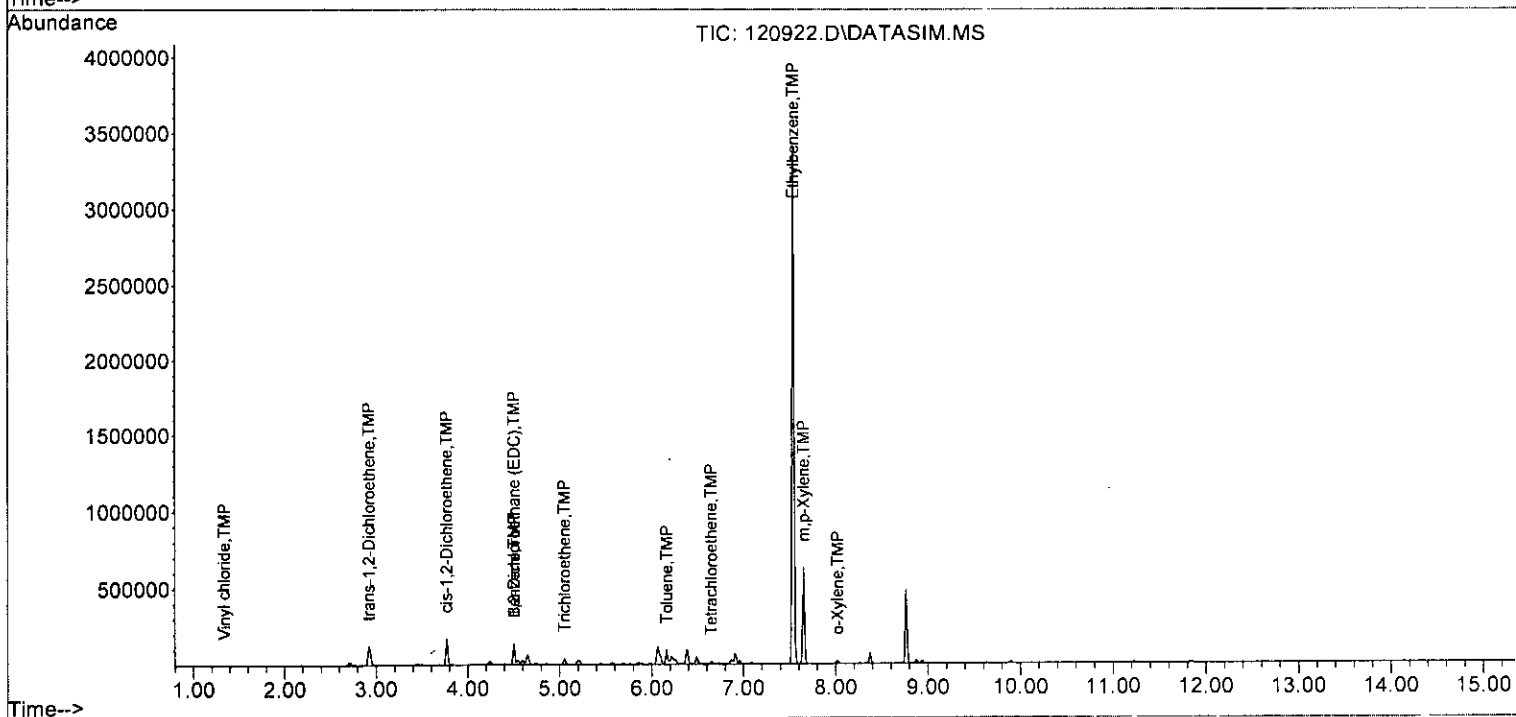
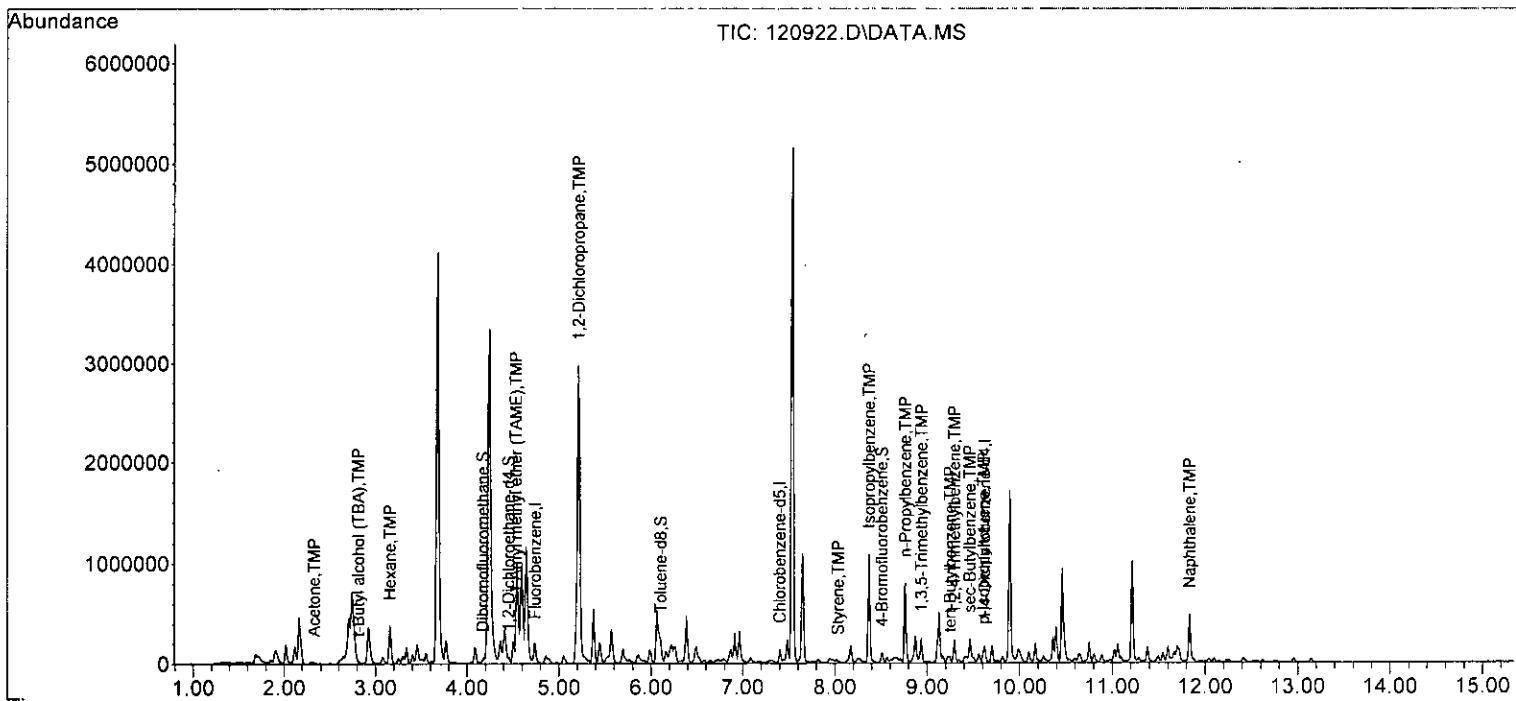
Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	6.01	75	41	N.D.		
40] Toluene	6.16	92	48536	10.670	ppb	95
41) trans-1,3-Dichloropropene	6.39	75	191	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.	d	
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	6.68	76	44	N.D.		
45] Tetrachloroethene	6.65	164	5979	2.090	ppb	96
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	d	
48) Chlorobenzene	7.45	112	183	N.D.		
49] Ethylbenzene	7.54	91	3683742	455.822	ppb	94
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51] m,p-Xylene	7.65	106	293883	82.672	ppb	79
52] o-Xylene	8.02	106	7763	2.155	ppb	84
53) Styrene	8.03	104	1713	0.309	ppb	95
54) Isopropylbenzene	8.37	105	618161	69.828	ppb	95
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	8.77	91	581925	74.279	ppb	85
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	8.94	105	115189	18.080	ppb	92
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	9.25	119	8602	1.274	ppb	91
66) 1,2,4-Trimethylbenzene	9.30	105	106218	15.496	ppb	98
67) sec-Butylbenzene	9.46	105	89720	10.791	ppb	92
68) p-Isopropyltoluene	9.61	119	33811	4.060	ppb	94
69) 1,3-Dichlorobenzene	9.56	146	182	N.D.		
70) 1,4-Dichlorobenzene	9.56	146	182	N.D.		
71) 1,2-Dichlorobenzene	10.03	146	88	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	11.83	128	337746	50.206	ppb	98
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120922.D  
 Acq On : 09 Dec 2022 05:03 pm  
 Operator : lm  
 Sample : 212083-07  
 Misc : water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

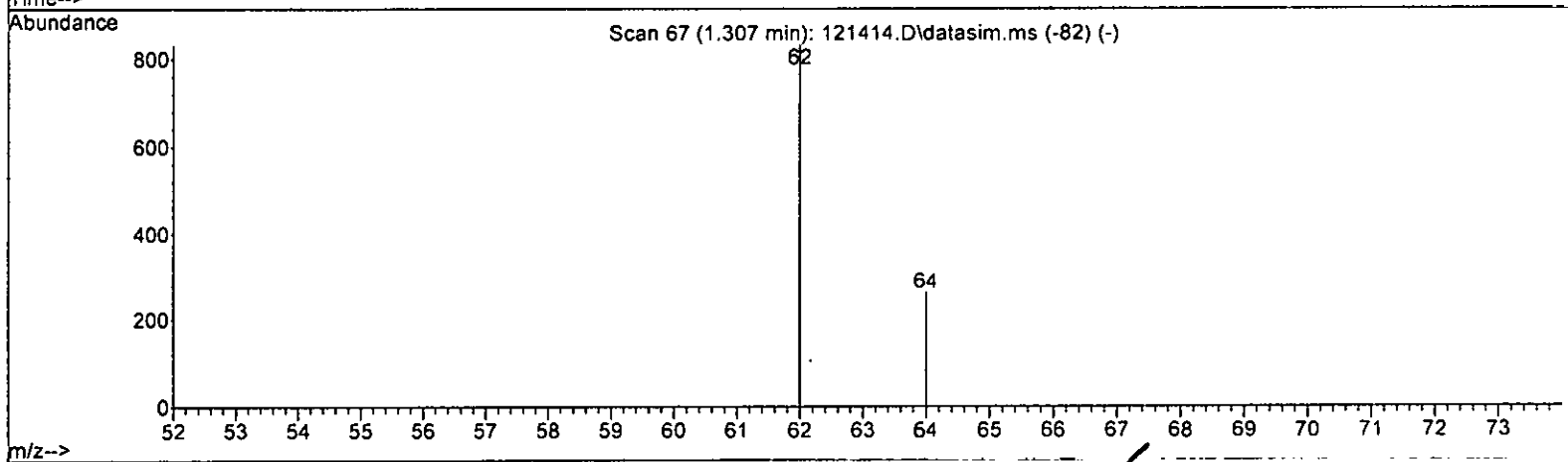
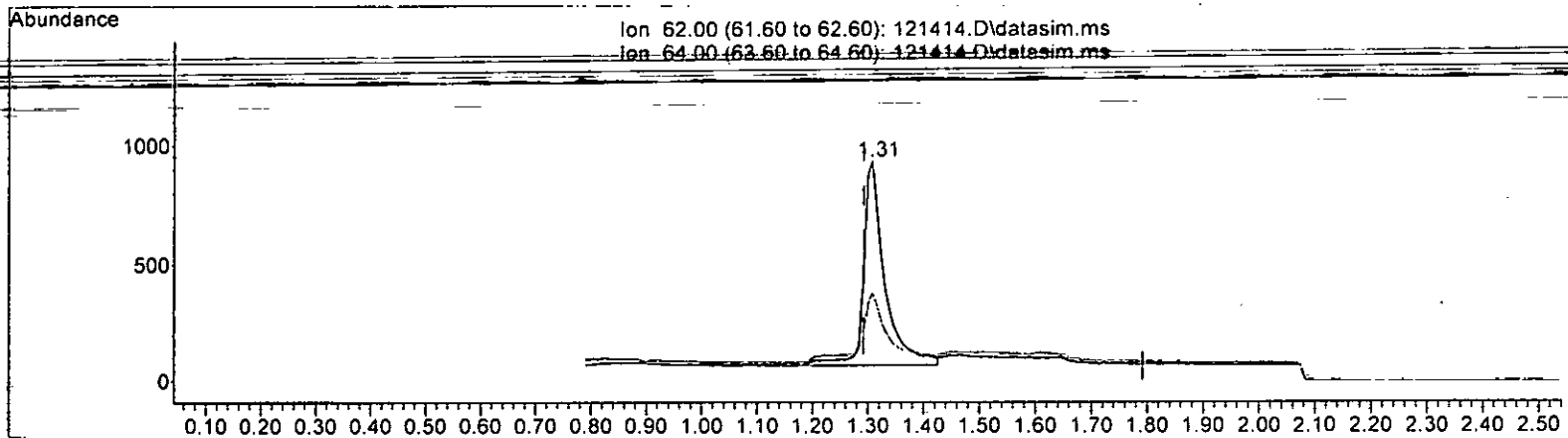
Quant Time: Dec 12 07:59:43 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121414.D  
 Acq On : 14 Dec 2022 09:52 am  
 Operator : LM  
 Sample : 212083-04 rr 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:29 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121414.D\data.ms

(6) Vinyl chloride (TMP)

1.307min (+ 0.015) 0.635 ppb

response 2303

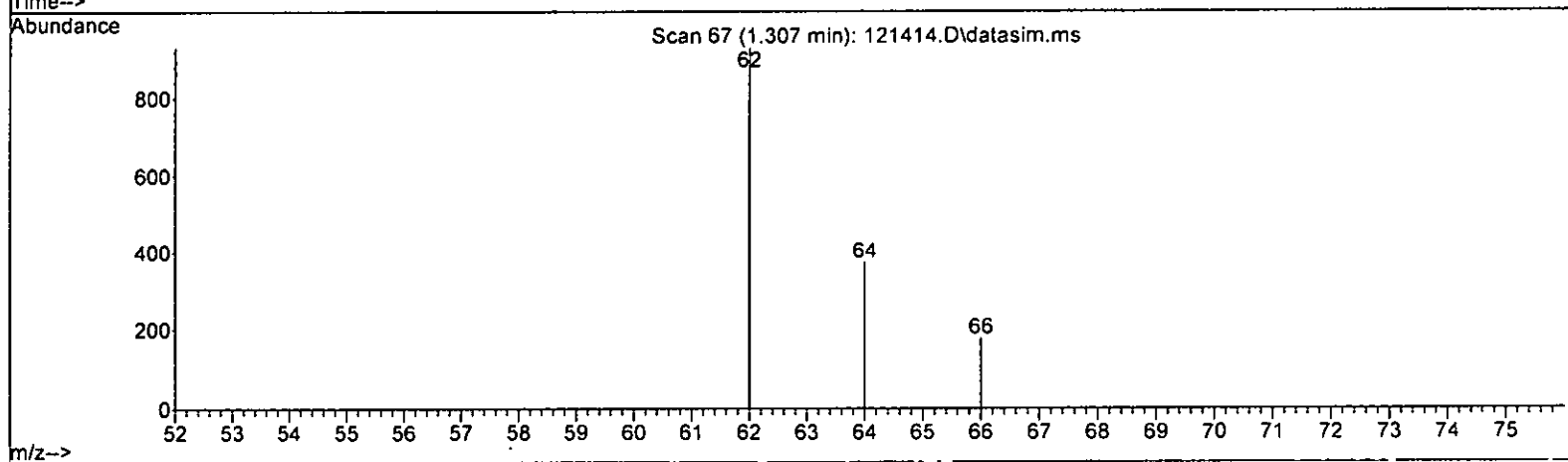
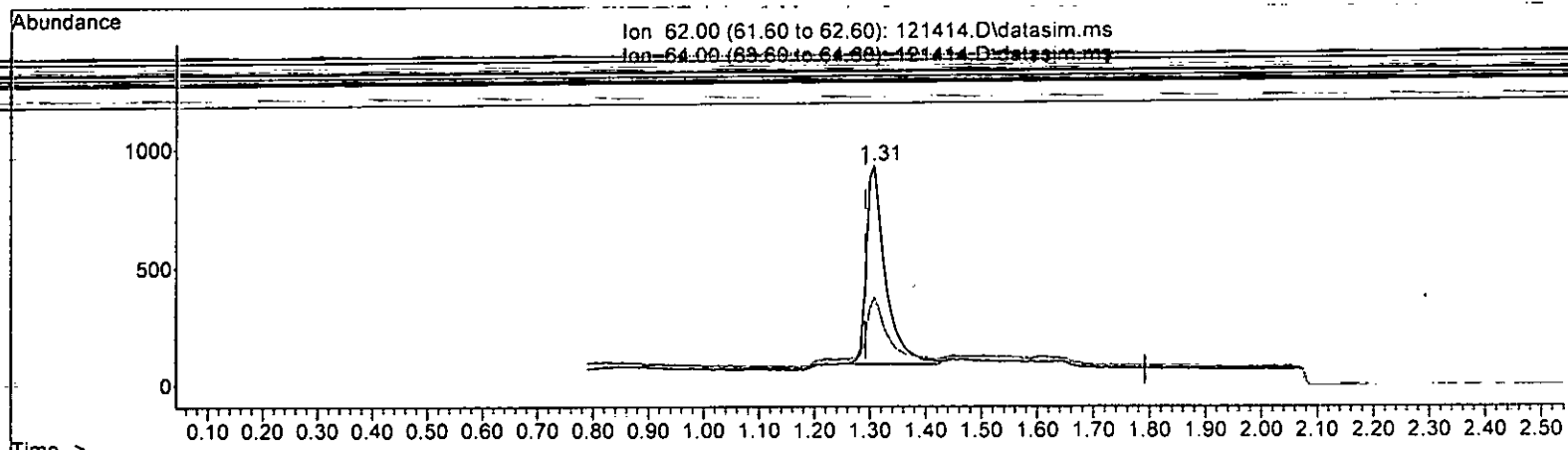
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	34.38
0.00	0.00	0.00
0.00	0.00	0.00

12.14

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121414.D  
 Acq On : 14 Dec 2022 09:52 am  
 Operator : LM  
 Sample : 212083-04 rr 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:29 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121414.D\data.ms

*m 12.14*

(6) -Vinyl chloride (TMP)

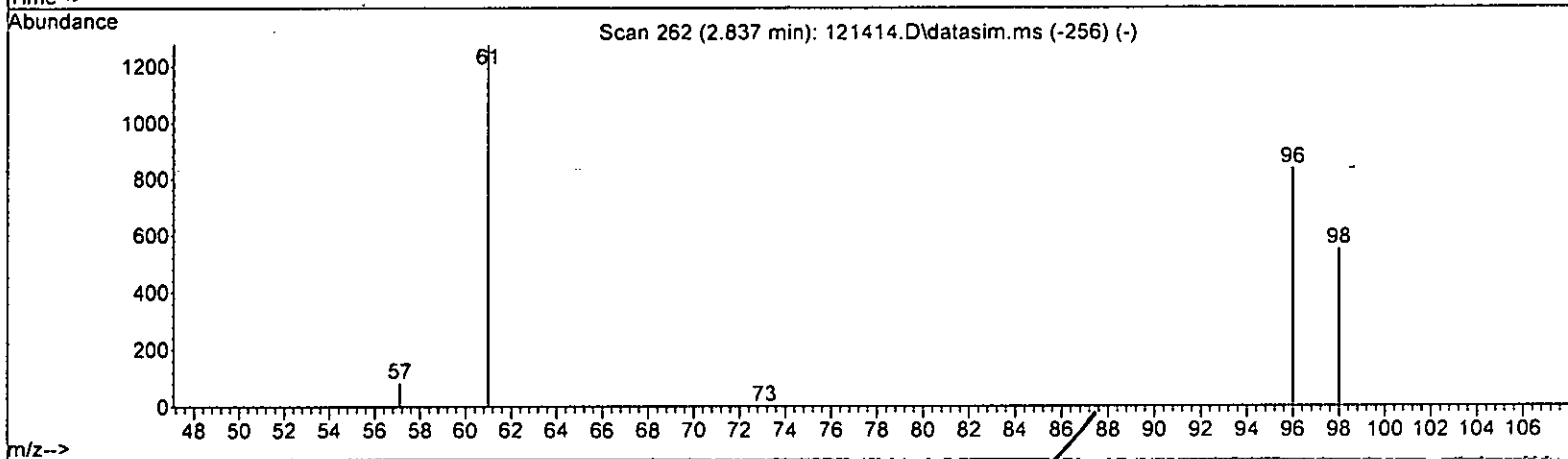
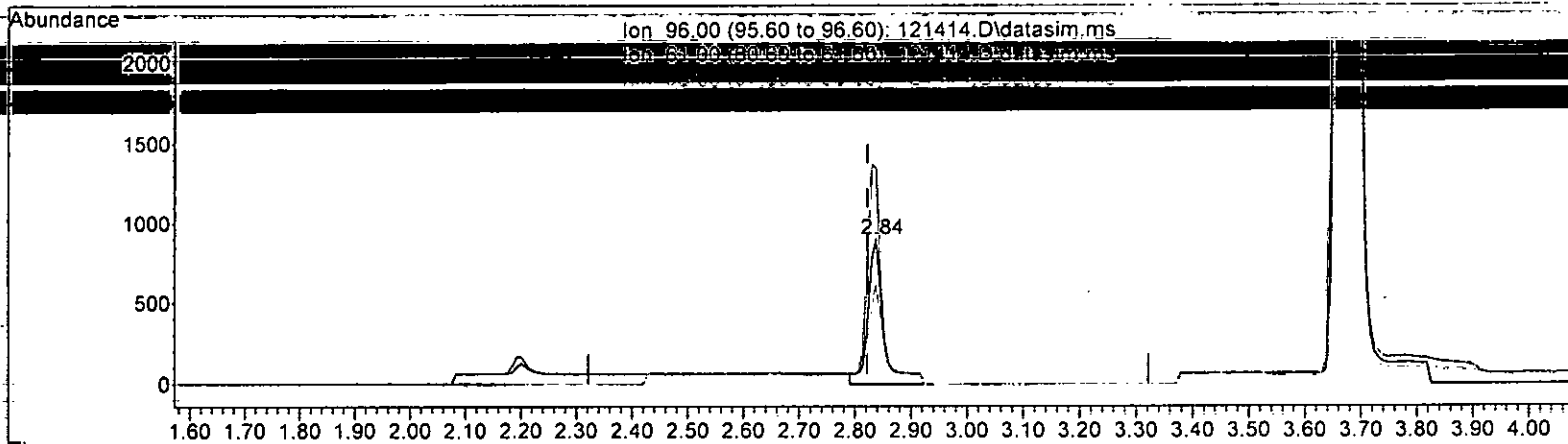
1.307min (+ 0.015) 0.546 ppb m

response	1981		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	40.15	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121414.D  
 Acq On : 14 Dec 2022 09:52 am  
 Operator : LM  
 Sample : 212083-04 rr 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:29 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121414.D\data.ms *12.14*

(17) trans-1,2-Dichloroethene (TMP)

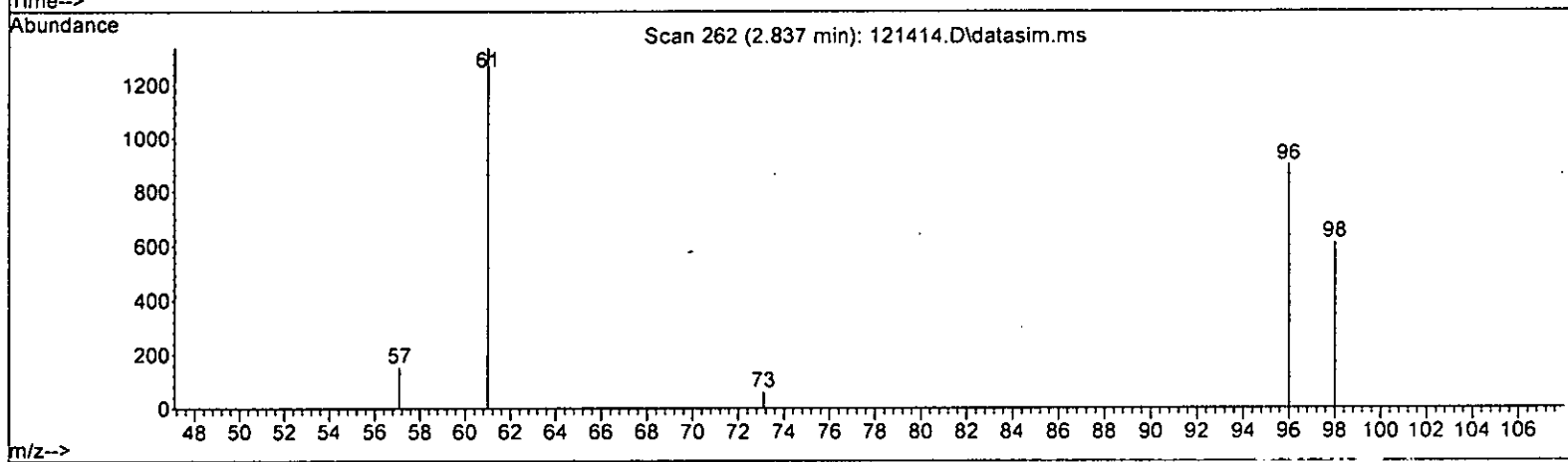
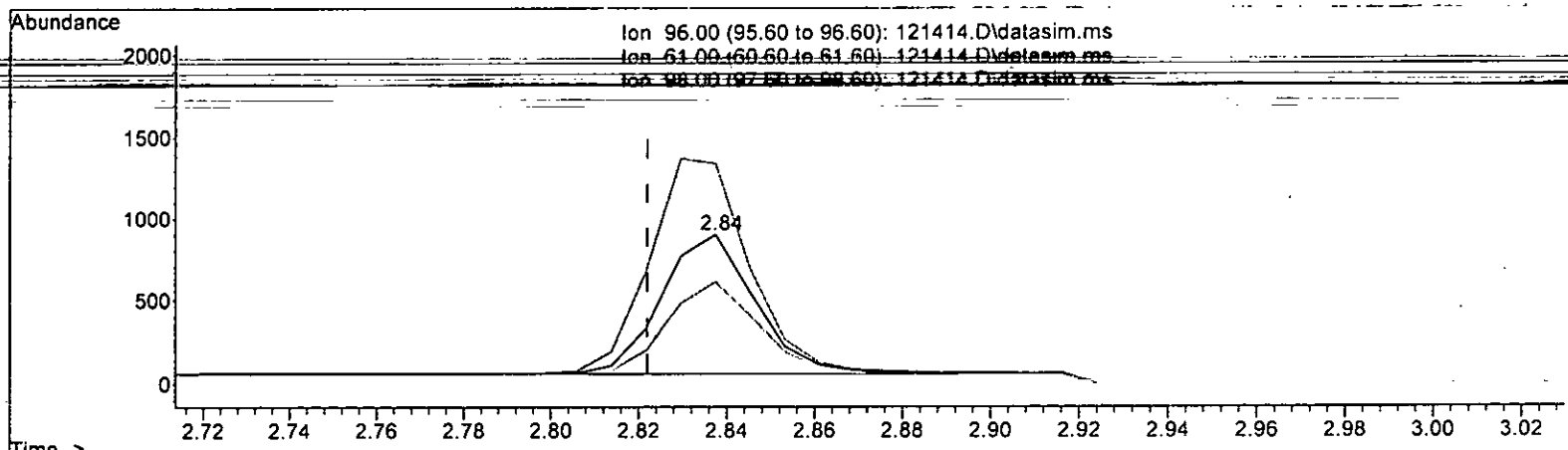
2.837min (+ 0.015) 1.258 ppb

response	1699	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	171.80	148.78
98.00	61.00	68.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121414.D  
 Acq On : 14 Dec 2022 09:52 am  
 Operator : LM  
 Sample : 212083-04 rr 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:29 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121414.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *u 12.14*

2.837min (+ 0.015) 0.920 ppb m

response 1242

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	171.80	148.78
98.00	61.00	68.00
0.00	0.00	0.00

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121414.D  
 Acq On : 14 Dec 2022 09:52 am  
 Operator : LM  
 Sample : 212083-04 rr 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

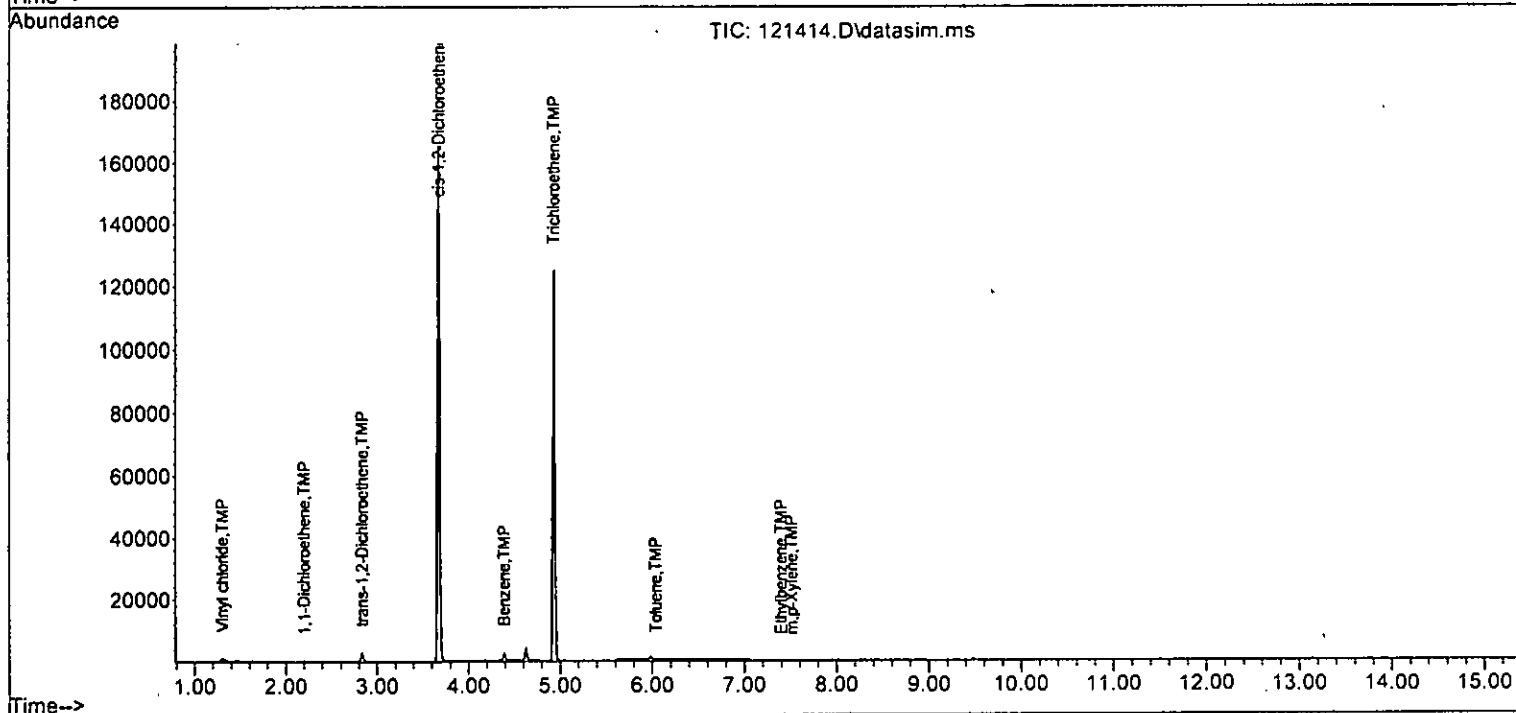
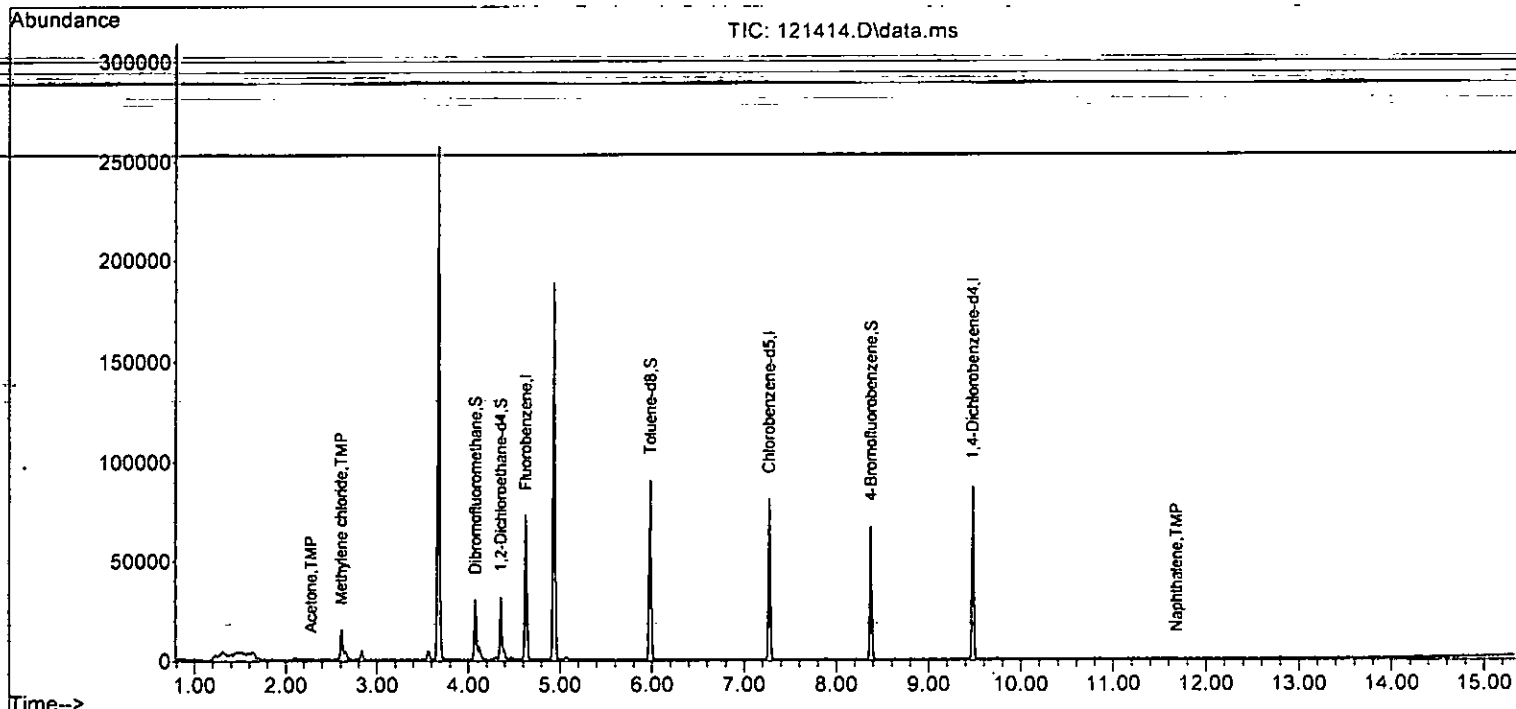
Quant Time: Dec 14 12:04:29 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	49593	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	37940	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	20634	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	13169	10.064	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	100.60%		
30) 1,2-Dichloroethane-d4	4.36	102	2759	9.221	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery =	92.20%		
35) Toluene-d8	5.98	98	47030	9.877	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery =	98.80%		
57) 4-Bromofluorobenzene	8.38	95	17190	9.868	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery =	98.70%		
<b>Target Compounds</b>						
6] Vinyl chloride	1.31	62	1981m	0.546	ppb	
11) Acetone	2.28	58	233	1.262	ppb	93
12] 1,1-Dichloroethene	2.20	96	106	0.089	ppb	99
14) Methylene chloride	2.61	84	5275	3.954	ppb	91
17] trans-1,2-Dichloroethene	2.84	96	1242m	0.920	ppb	
22] cis-1,2-Dichloroethene	3.68	96	83802	59.005	ppb	82
31] Benzene	4.39	78	2989	0.603	ppb	99
32] Trichloroethene	4.94	95	49413	31.573	ppb	# 77
40] Toluene	6.04	92	67	0.021	ppb	90
49] Ethylbenzene	7.40	91	67	0.011	ppb	96
51] m,p-Xylene	7.52	106	54	0.023	ppb	100
75) Naphthalene	11.68	128	317	0.059	ppb	67

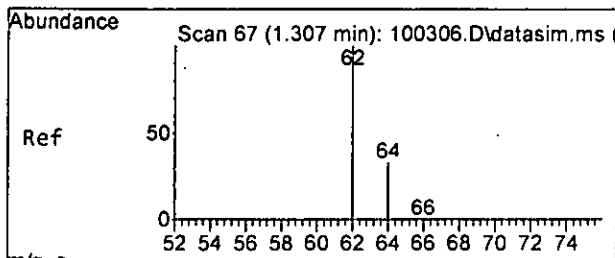
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121414.D  
 Acq On : 14 Dec 2022 09:52 am  
 Operator : LM  
 Sample : 212083-04 rr 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:29 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

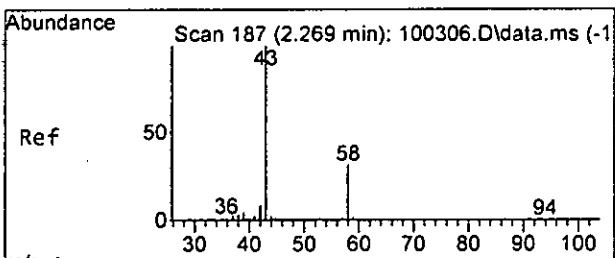
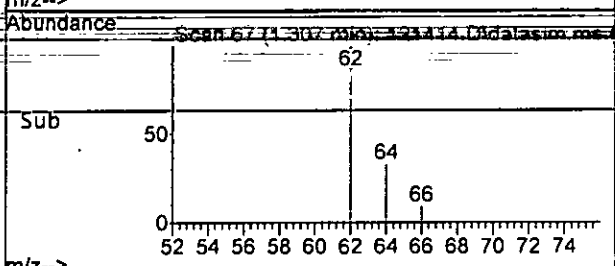
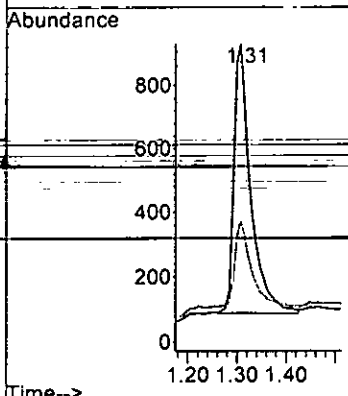
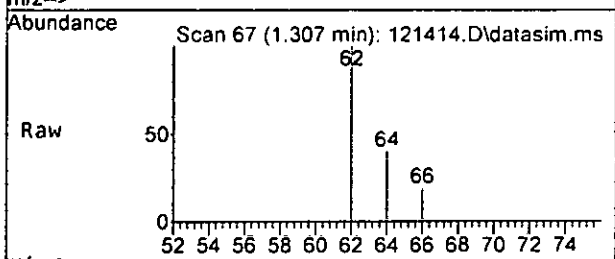






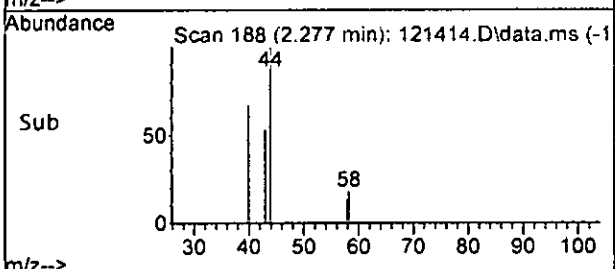
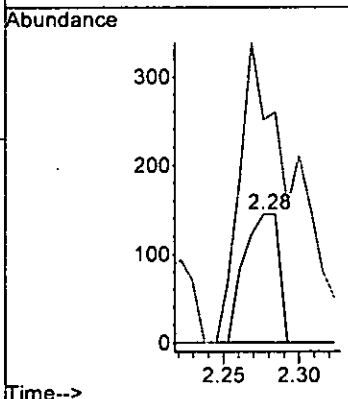
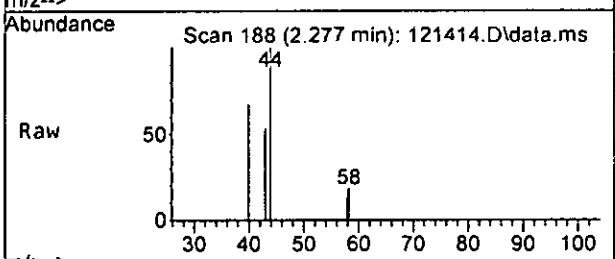
#6  
 Vinyl chloride  
 Concen: 0.546 ppb m  
 RT: 1.31 min Scan# 67  
 Delta R.T. 0.015 min  
 Lab File: 121414.D  
 Acq: 14 Dec 2022 09:52 am

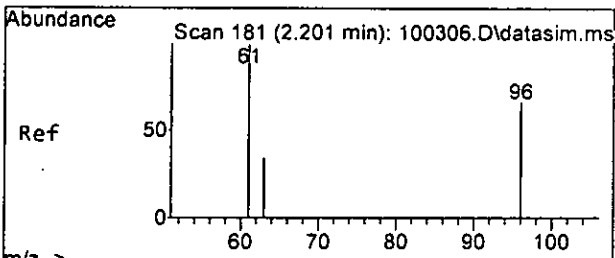
Tgt Ion: 62 Resp: 1981  
 Ion Ratio Lower Upper  
 62 100  
 64 40.2 0.0 58.8



#11  
 Acetone  
 Concen: 1.262 ppb  
 RT: 2.28 min Scan# 188  
 Delta R.T. 0.015 min  
 Lab File: 121414.D  
 Acq: 14 Dec 2022 09:52 am

Tgt Ion: 58 Resp: 233  
 Ion Ratio Lower Upper  
 58 100  
 43 353.2 308.5 368.5

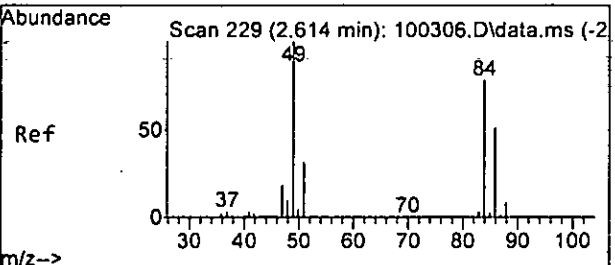
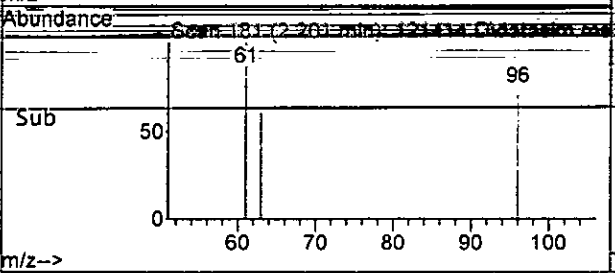
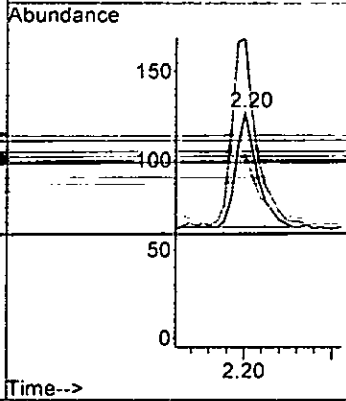
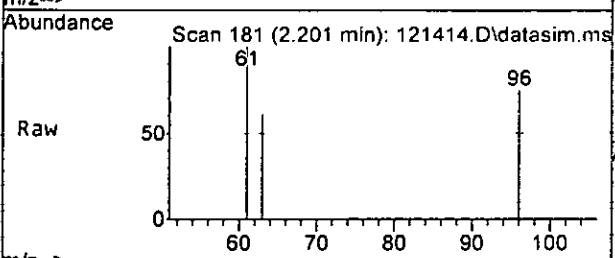




#12  
 1,1-Dichloroethene  
 Concen: 0.089 ppb  
 RT: 2.20 min Scan# 181  
 Delta R.T. 0.016 min  
 Lab File: 121414.D  
 Acq: 14 Dec 2022 09:52 am

Tgt Ion: 96 Resp: 106

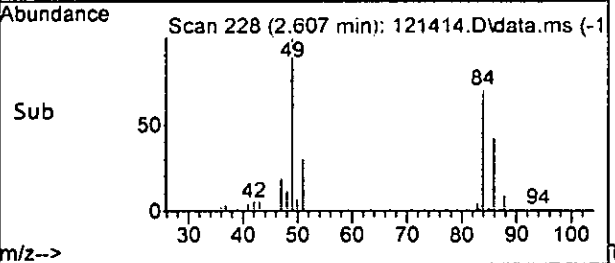
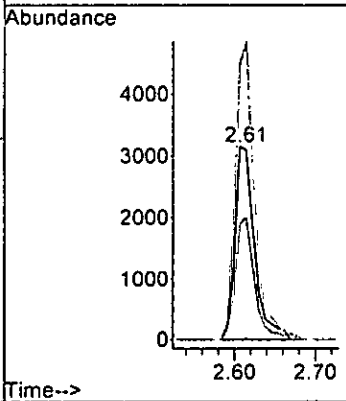
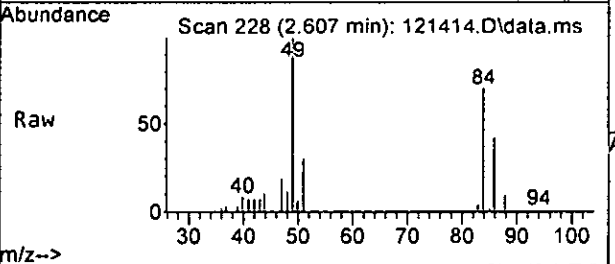
Ion	Ratio	Lower	Upper
96	100		
61	160.9	130.0	190.0
63	54.7	23.7	83.7

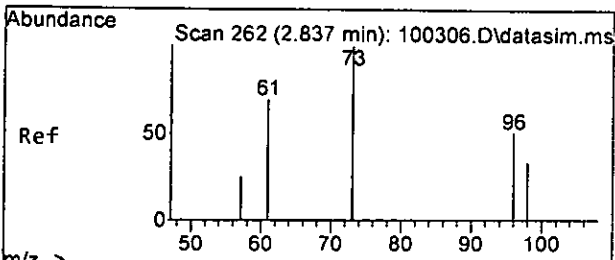


#14  
 Methylene chloride  
 Concen: 3.954 ppb  
 RT: 2.61 min Scan# 228  
 Delta R.T. 0.008 min  
 Lab File: 121414.D  
 Acq: 14 Dec 2022 09:52 am

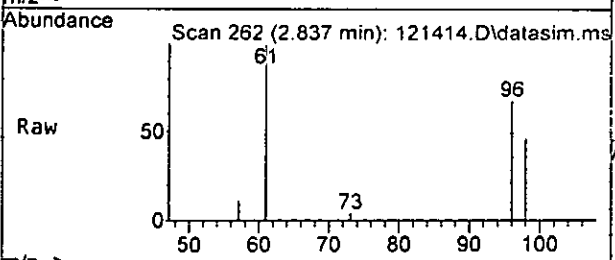
Tgt Ion: 84 Resp: 5275

Ion	Ratio	Lower	Upper
84	100		
86	60.2	30.4	90.4
49	142.2	127.9	187.9

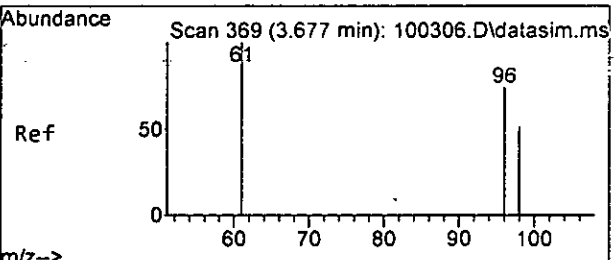
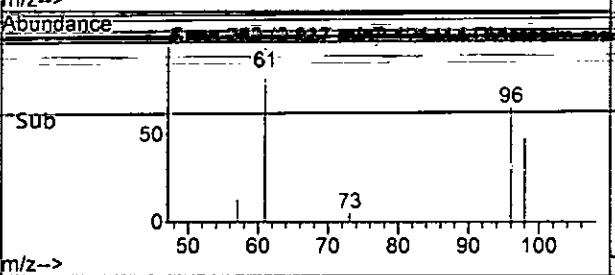
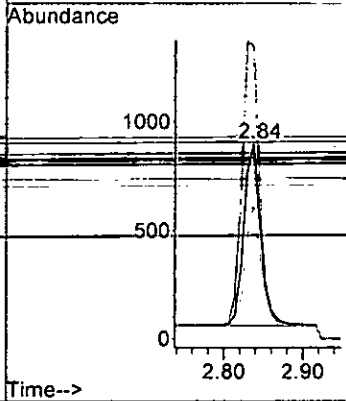




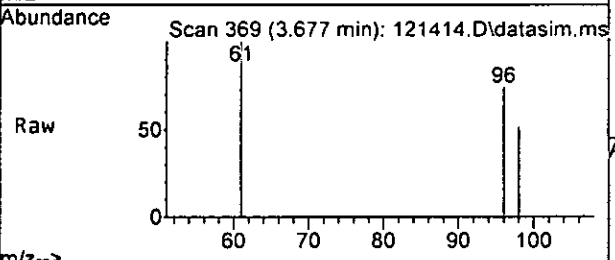
#17  
 trans-1,2-Dichloroethene  
 Concen: 0.920 ppb m  
 RT: 2.84 min Scan# 262  
 Delta R.T. 0.015 min  
 Lab File: 121414.D  
 Acq: 14 Dec 2022 09:52 am



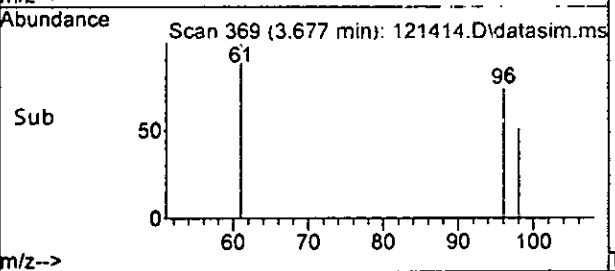
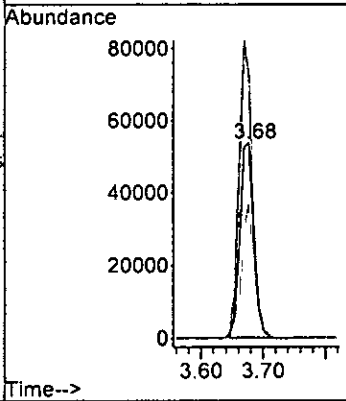
Tgt Ion: 96 Resp: 1242  
 Ion Ratio Lower Upper  
 96 100  
 61 148.8 141.8 201.8  
 98 68.0 31.0 91.0

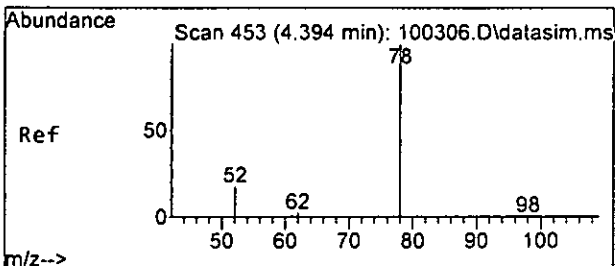


#22  
 cis-1,2-Dichloroethene  
 Concen: 59.005 ppb  
 RT: 3.68 min Scan# 369  
 Delta R.T. 0.008 min  
 Lab File: 121414.D  
 Acq: 14 Dec 2022 09:52 am



Tgt Ion: 96 Resp: 83802  
 Ion Ratio Lower Upper  
 96 100  
 61 134.6 132.4 192.4  
 98 68.4 29.7 89.7

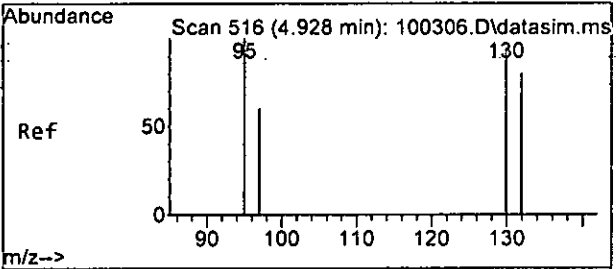
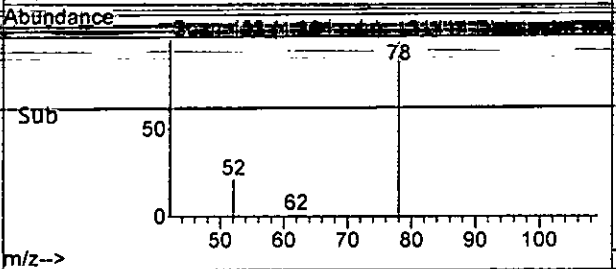
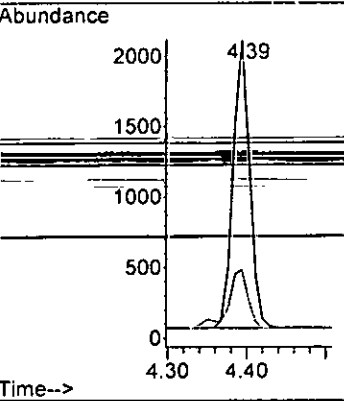
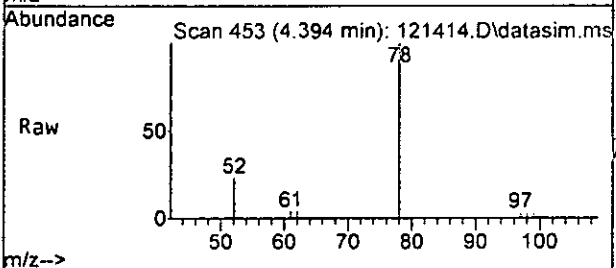




#31  
Benzene  
Concen: 0.603 ppb  
RT: 4.39 min Scan# 453  
Delta R.T. 0.009 min  
Lab File: 121414.D  
Acq: 14 Dec 2022 09:52 am

Tgt Ion: 78 Resp: 2989

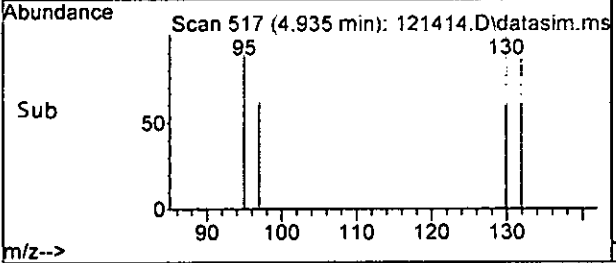
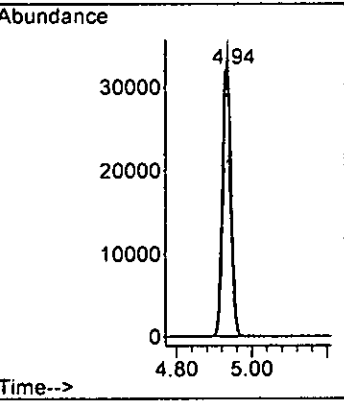
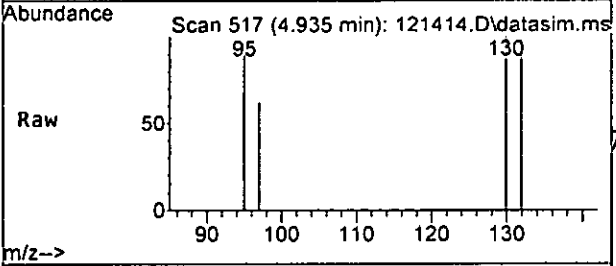
Ion	Ratio	Lower	Upper
78	100		
52	20.4	0.0	49.9

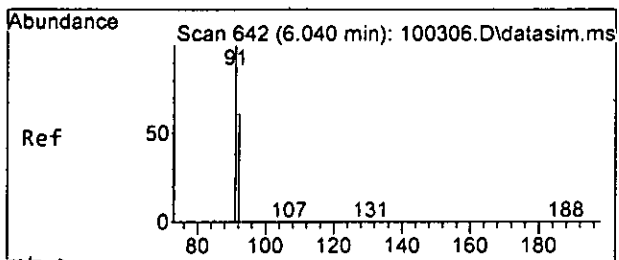


#32  
Trichloroethene  
Concen: 31.573 ppb  
RT: 4.94 min Scan# 517  
Delta R.T. 0.007 min  
Lab File: 121414.D  
Acq: 14 Dec 2022 09:52 am

Tgt Ion: 95 Resp: 49413

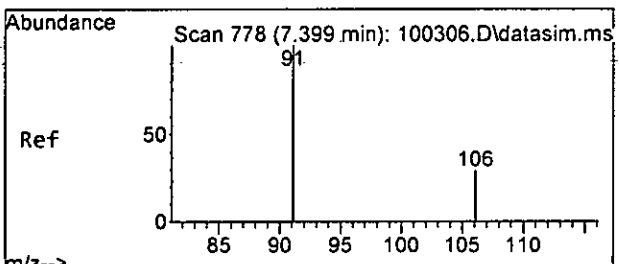
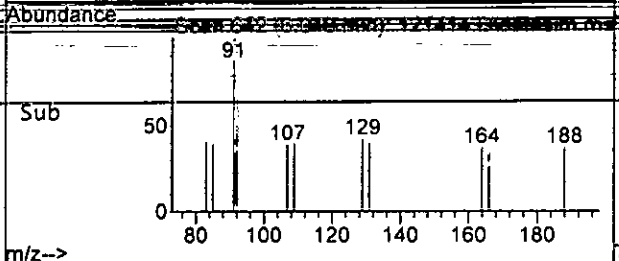
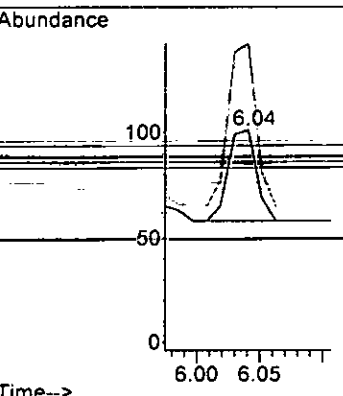
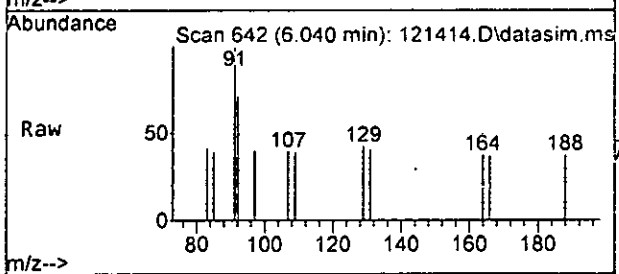
Ion	Ratio	Lower	Upper
95	100		
97	68.5	30.5	90.5
130	110.8	60.4	120.4
132	108.7	48.0	108.0#





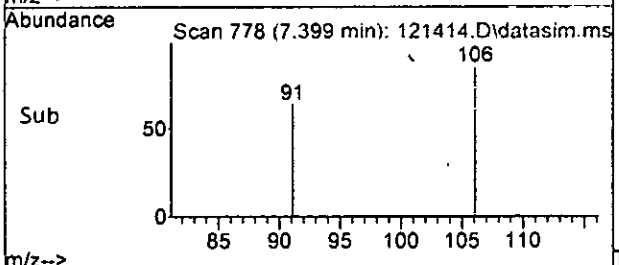
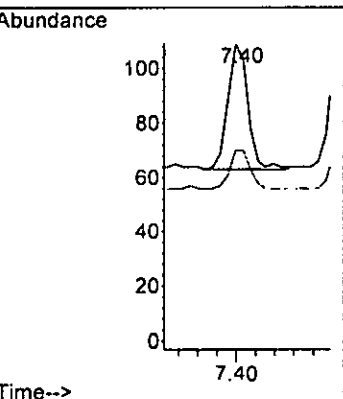
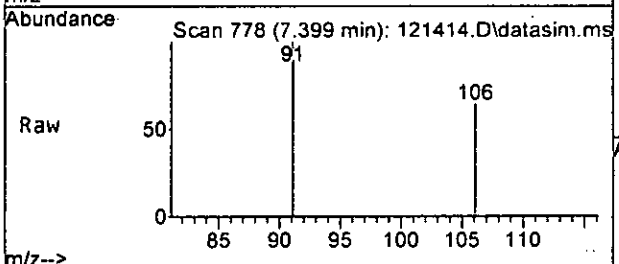
#40  
 Toluene  
 Concen: 0.021 ppb  
 RT: 6.04 min Scan# 642  
 Delta R.T. 0.011 min  
 Lab File: 121414.D  
 Acq: 14 Dec 2022 09:52 am

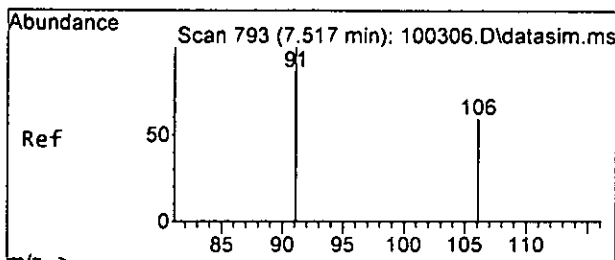
Tgt Ion: 92 Resp: 67  
 Ion Ratio Lower Upper  
 92 100  
 91 179.1 135.6 195.6



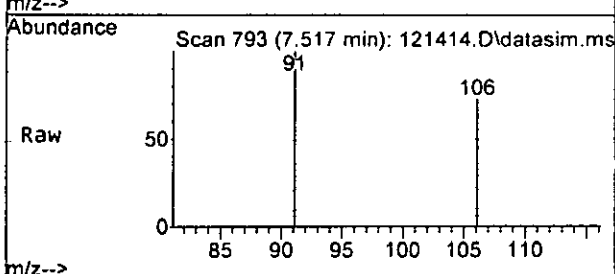
#49  
 Ethylbenzene  
 Concen: 0.011 ppb  
 RT: 7.40 min Scan# 778  
 Delta R.T. 0.000 min  
 Lab File: 121414.D  
 Acq: 14 Dec 2022 09:52 am

Tgt Ion: 91 Resp: 67  
 Ion Ratio Lower Upper  
 91 100  
 106 30.4 0.0 58.3

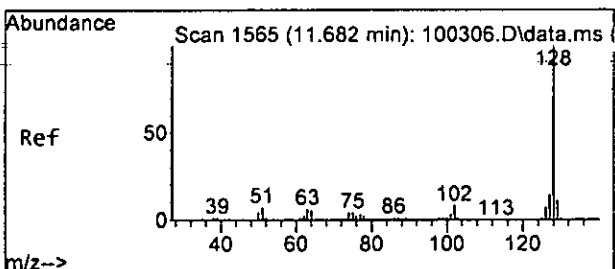
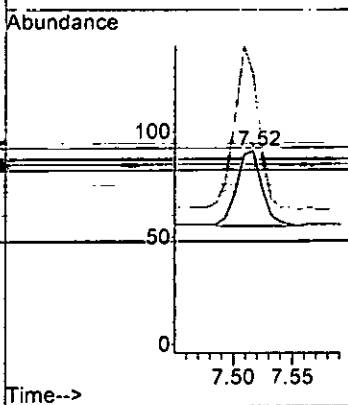
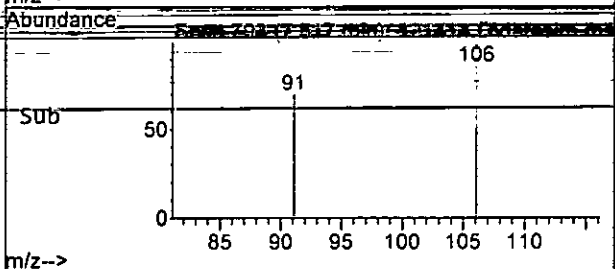




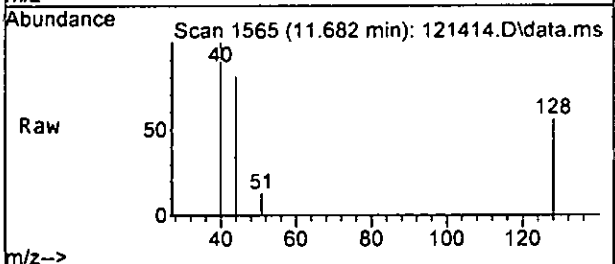
#51  
 m,p-Xylene  
 Concen: 0.023 ppb  
 RT: 7.52 min Scan# 793  
 Delta R.T. 0.008 min  
 Lab File: 121414.D  
 Acq: 14 Dec 2022 09:52 am



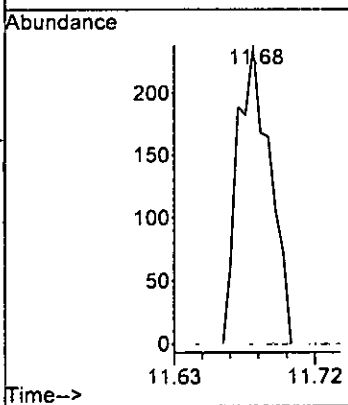
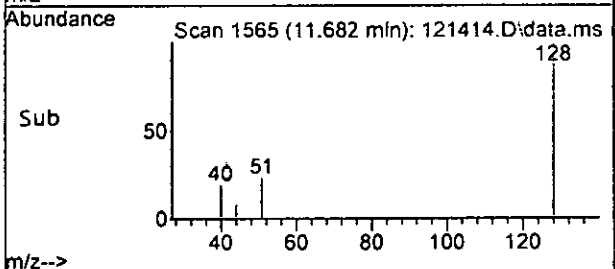
Tgt Ion: 106 Resp: 54  
 Ion Ratio Lower Upper  
 106 100  
 91 177.8 147.7 207.7



#75  
 Naphthalene  
 Concen: 0.059 ppb  
 RT: 11.68 min Scan# 1565  
 Delta R.T. 0.001 min  
 Lab File: 121414.D  
 Acq: 14 Dec 2022 09:52 am



Tgt Ion: 128 Resp: 317  
 Ion Ratio Lower Upper  
 128 100  
 129 0.0 0.0 41.9  
 127 0.0 0.0 43.8



Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121414.D  
 Acq On : 14 Dec 2022 09:52 am  
 Operator : LM  
 Sample : 212083-04 rr 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:29 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	49593	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	37940	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	20634	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	13169	10.064	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery =	100.60%			
30) 1,2-Dichloroethane-d4	4.36	102	2759	9.221	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery =	92.20%			
35) Toluene-d8	5.98	98	47030	9.877	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery =	98.80%			
57) 4-Bromofluorobenzene	8.38	95	17190	9.868	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery =	98.70%			
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.23	50	249	N.D.			
6] Vinyl chloride	1.31	62	1981m	0.546	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.40	45	144	No Calib			
11) Acetone	2.28	58	233	1.262	ppb	93	
12] 1,1-Dichloroethene	2.20	96	106	0.089	ppb	99	
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.61	84	5275	3.954	ppb	91	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17] trans-1,2-Dichloroethene	2.84	96	1242m	0.920	ppb		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22] cis-1,2-Dichloroethene	3.68	96	83802	59.005	ppb	82	
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	0.00		0	N.D.			
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.			
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.39	78	2989	0.603	ppb	99	
32] Trichloroethene	4.94	95	49413	31.573	ppb #	77	
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121414.D  
 Acq On : 14 Dec 2022 09:52 am  
 Operator : LM  
 Sample : 212083-04 rr 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:29 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

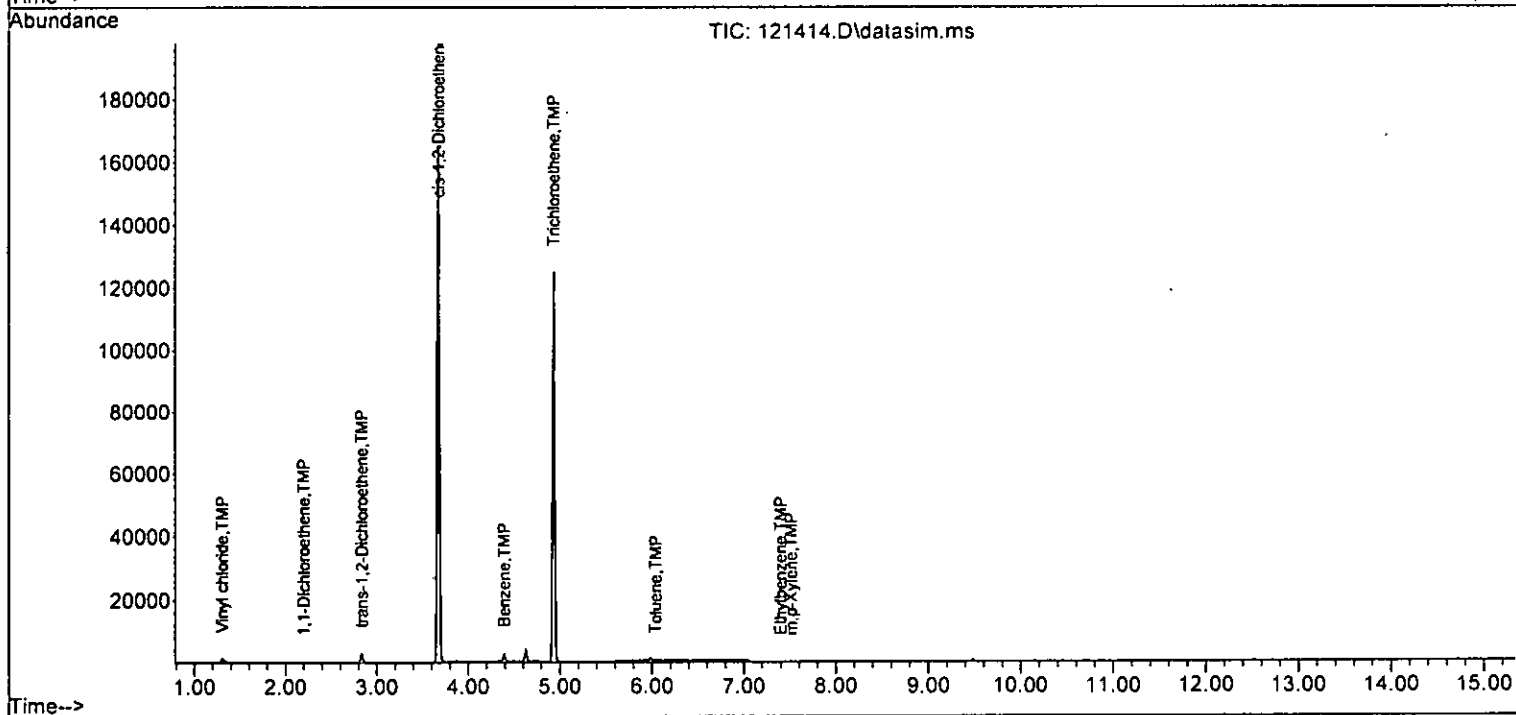
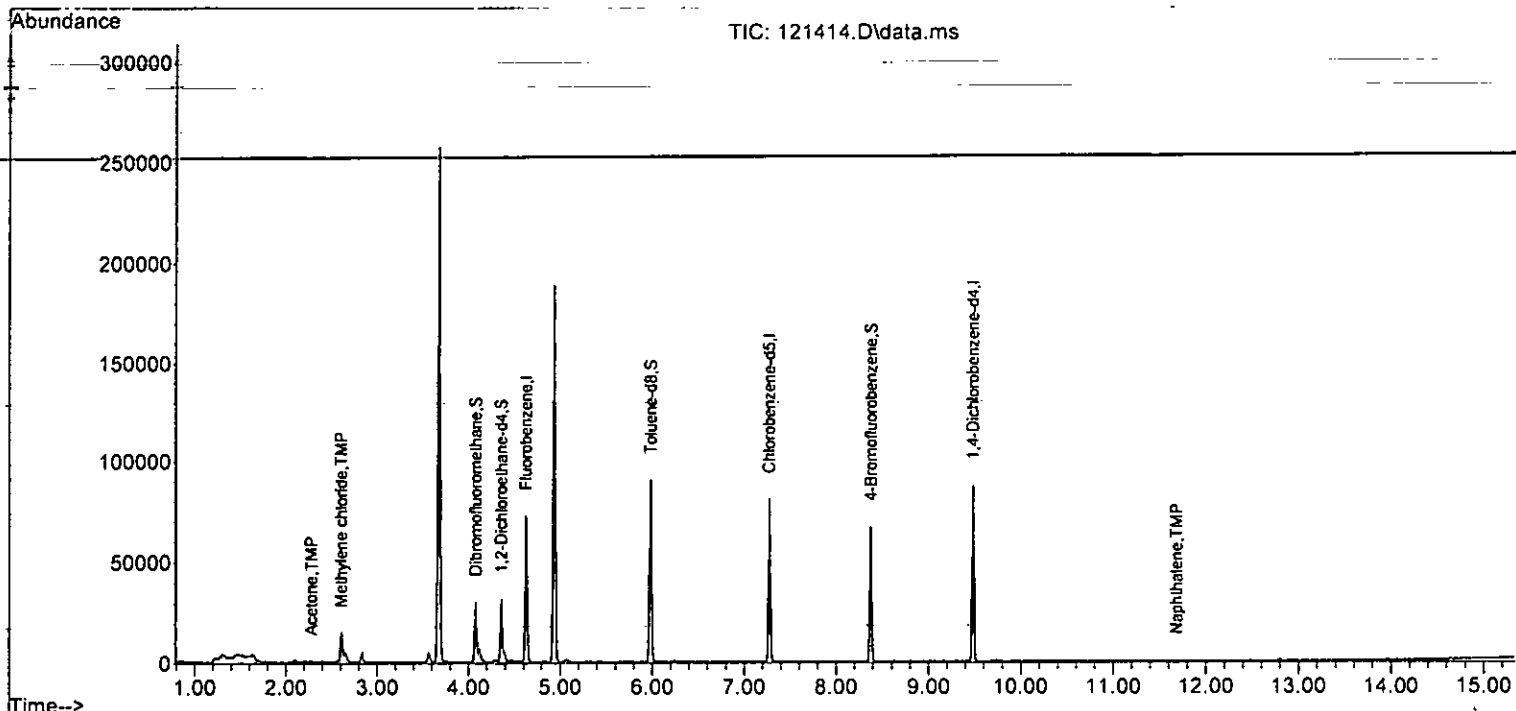
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<del>37) 4-Methyl-2-pentanone</del>	<del>0.00</del>		<del>0</del>	<del>N.D.</del>		
38) cis-1,3-Dichloropropene	0.00		0	N.D.		
40] Toluene	6.04	92	67	0.021	ppb	90
41) trans-1,3-Dichloropropene	0.00		0	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.		
43) 2-Hexanone	6.58	43	69	N.D.		
44) 1,3-Dichloropropane	0.00		0	N.D.		
45) Tetrachloroethene	0.00		0	N.D.		
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.		
48) Chlorobenzene	0.00		0	N.D.		
49] Ethylbenzene	7.40	91	67	0.011	ppb	96
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51] m,p-Xylene	7.52	106	54	0.023	ppb	100
52) o-Xylene	0.00		0	N.D.		
53) Styrene	0.00		0	N.D.		
54) Isopropylbenzene	0.00		0	N.D.		
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	8.63	91	65	N.D.		
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.		
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	8.63	91	65	N.D.		
64) 4-Chlorotoluene	8.81	91	109	N.D.		
65) tert-Butylbenzene	0.00		0	N.D.		
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.		
67) sec-Butylbenzene	0.00		0	N.D.		
68) p-Isopropyltoluene	0.00		0	N.D.		
69) 1,3-Dichlorobenzene	0.00		0	N.D.		
70) 1,4-Dichlorobenzene	0.00		0	N.D.		
71) 1,2-Dichlorobenzene	0.00		0	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	11.45	180	75	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	11.68	128	317	0.059	ppb	67
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121414.D  
 Acq On : 14 Dec 2022 09:52 am  
 Operator : LM  
 Sample : 212083-04 rr 1/10  
 Misc : water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

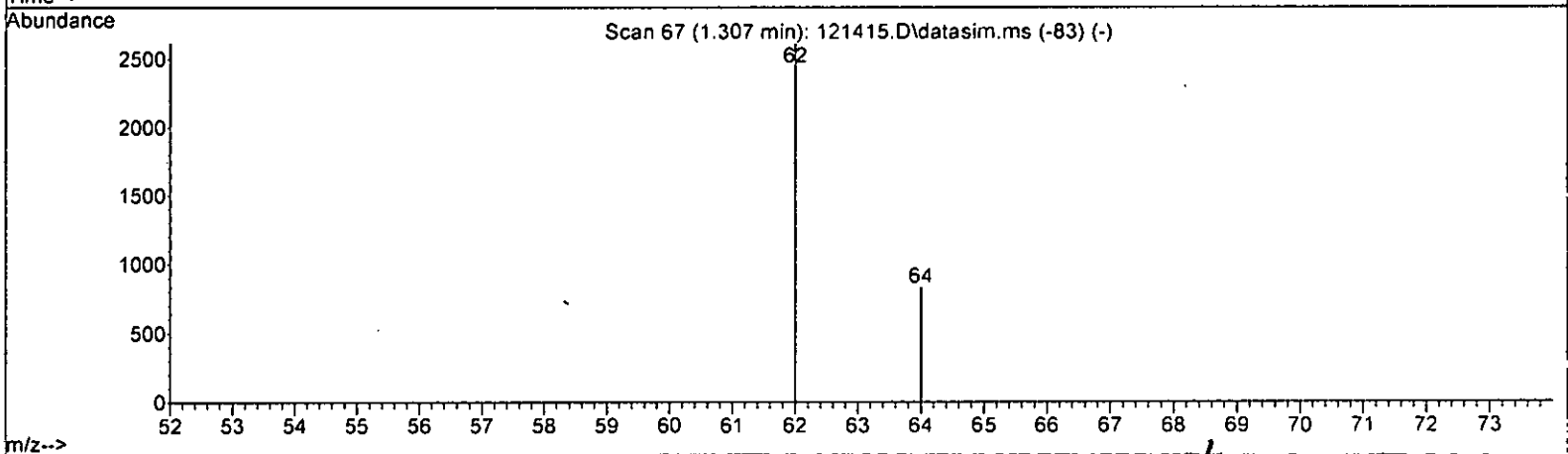
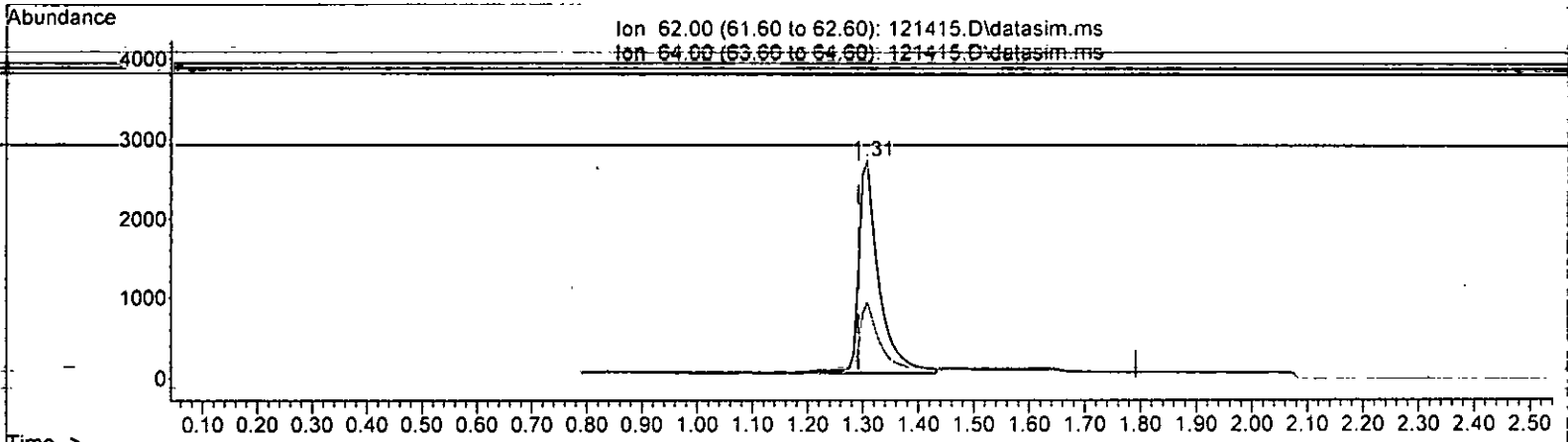
Quant Time: Dec 14 12:04:29 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121415.D  
 Acq On : 14 Dec 2022 10:14 am  
 Operator : LM  
 Sample : 212083-05 rr 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:33 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121415.D\data.ms

(6) Vinyl chloride (TMP)

1.307min (+ 0.015) 1.859 ppb

response 6621

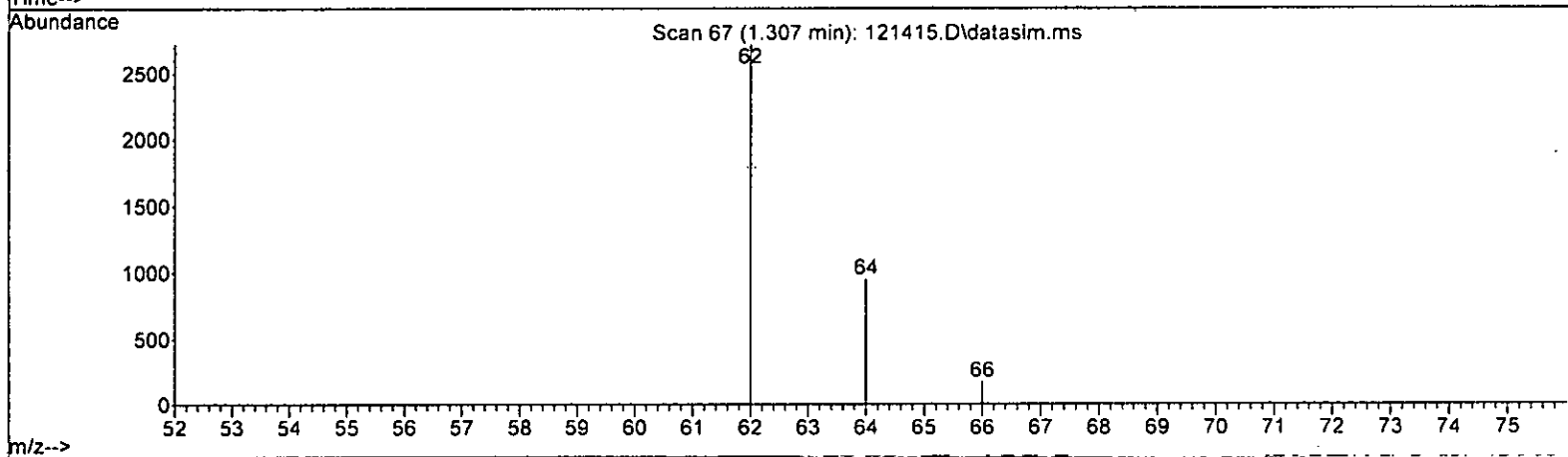
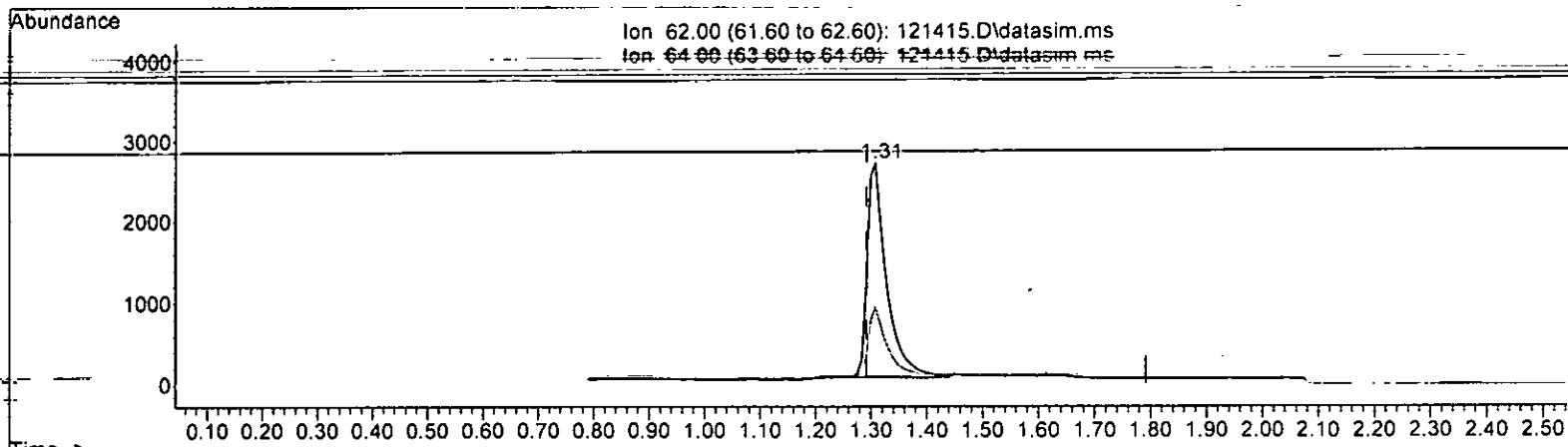
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	32.79
0.00	0.00	0.00
0.00	0.00	0.00

*12.14*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121415.D  
 Acq On : 14 Dec 2022 10:14 am  
 Operator : LM  
 Sample : 212083-05 rr 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:33 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121415.D\data.ms

(6) Vinyl chloride (TMP) *m 12.14*

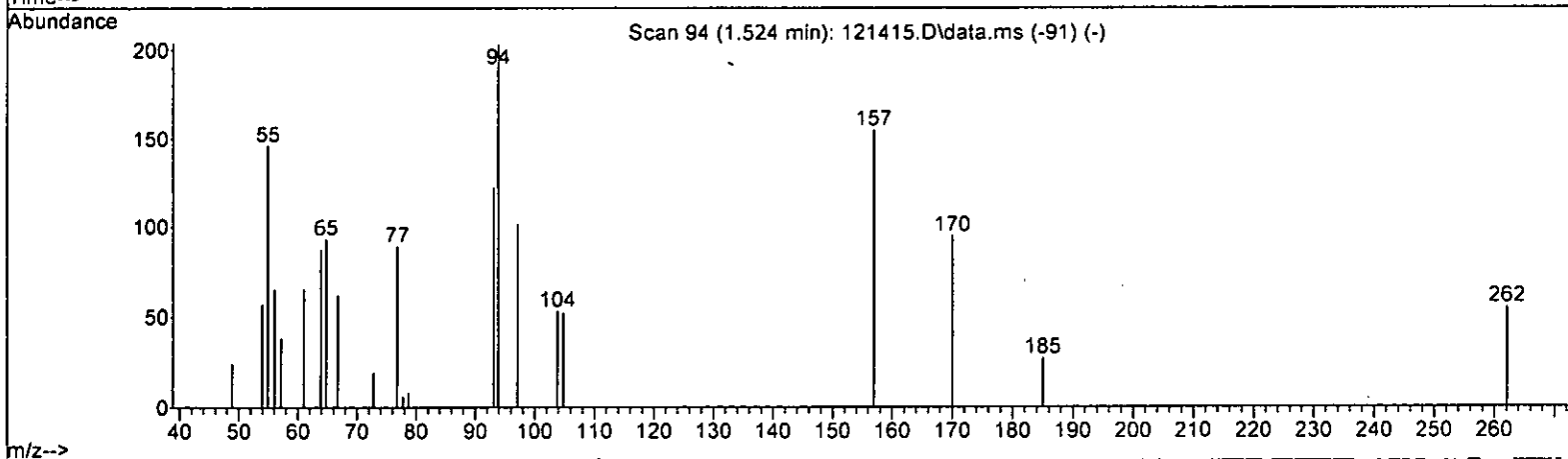
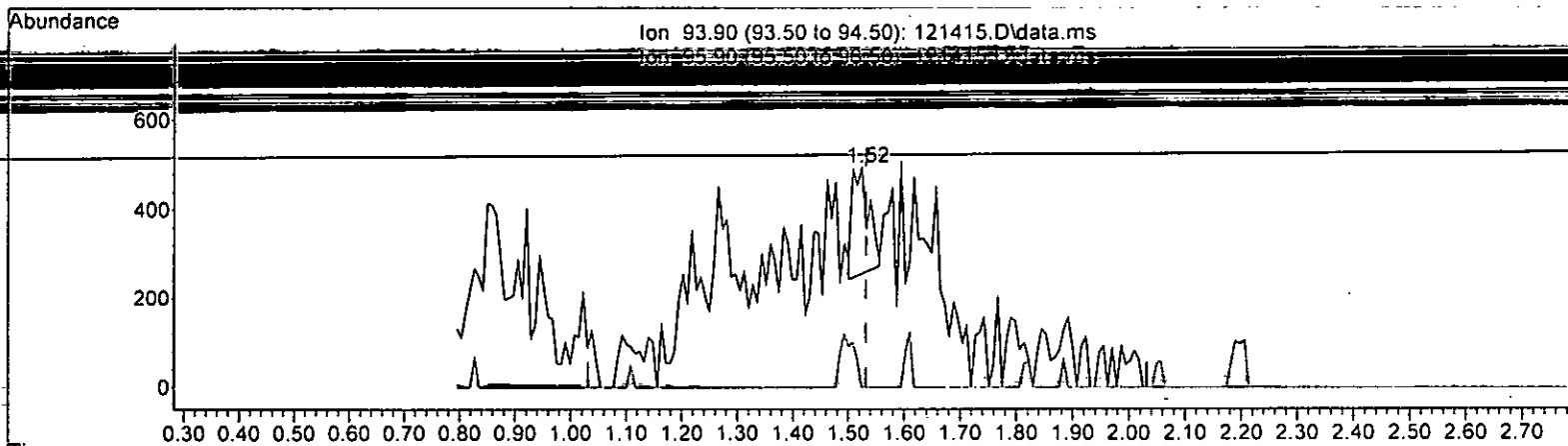
1.307min (+ 0.015) 1.767 ppb m

response	6292	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	34.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121415.D  
 Acq On : 14 Dec 2022 10:14 am  
 Operator : LM  
 Sample : 212083-05 rr 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:33 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



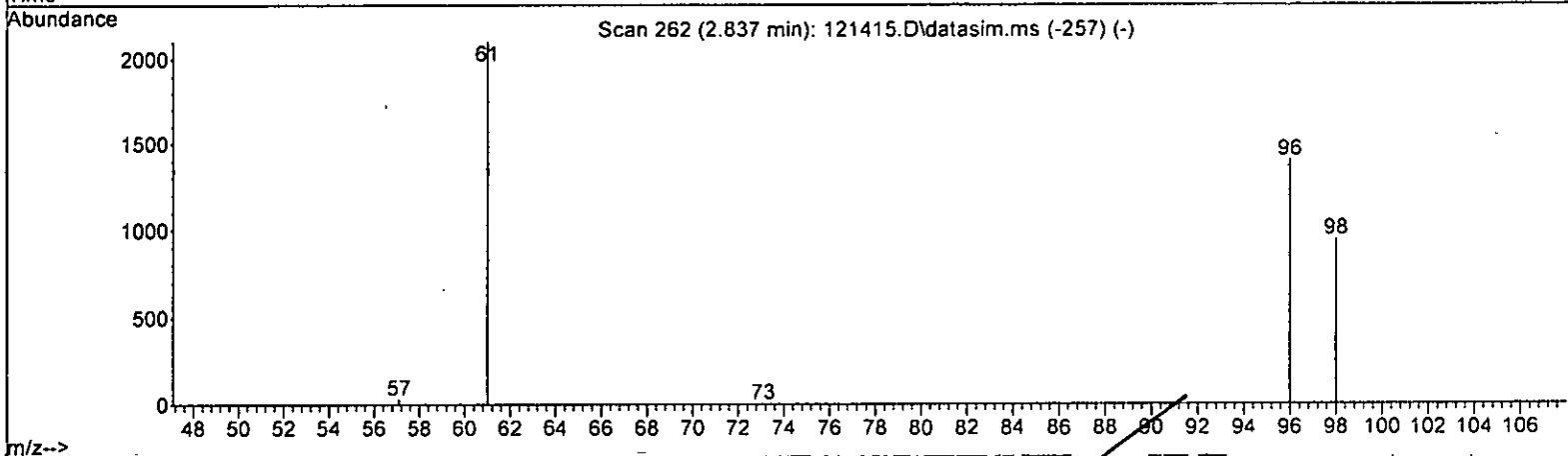
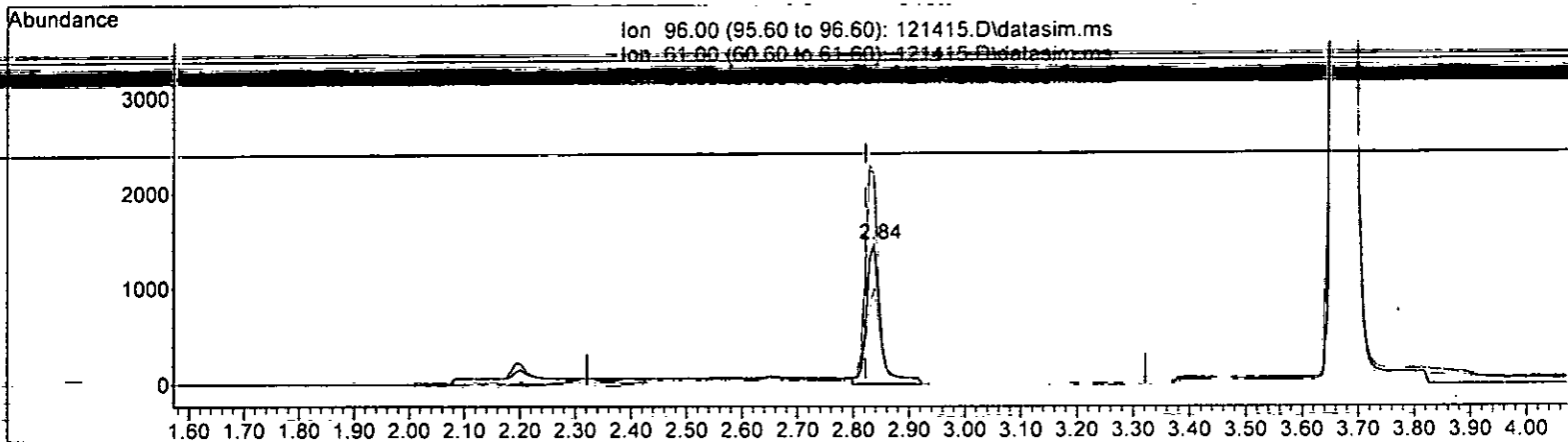
TIC: 121415.D\data.ms

(7) Bromomethane (TMP)		
Retention Time	Abundance	Concentration
1.524min (-0.008)	491	0.274 ppb
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121415.D  
 Acq On : 14 Dec 2022 10:14 am  
 Operator : LM  
 Sample : 212083-05 rr 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:33 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121415.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)  
 2.837min (+ 0.015) 1.915 ppb

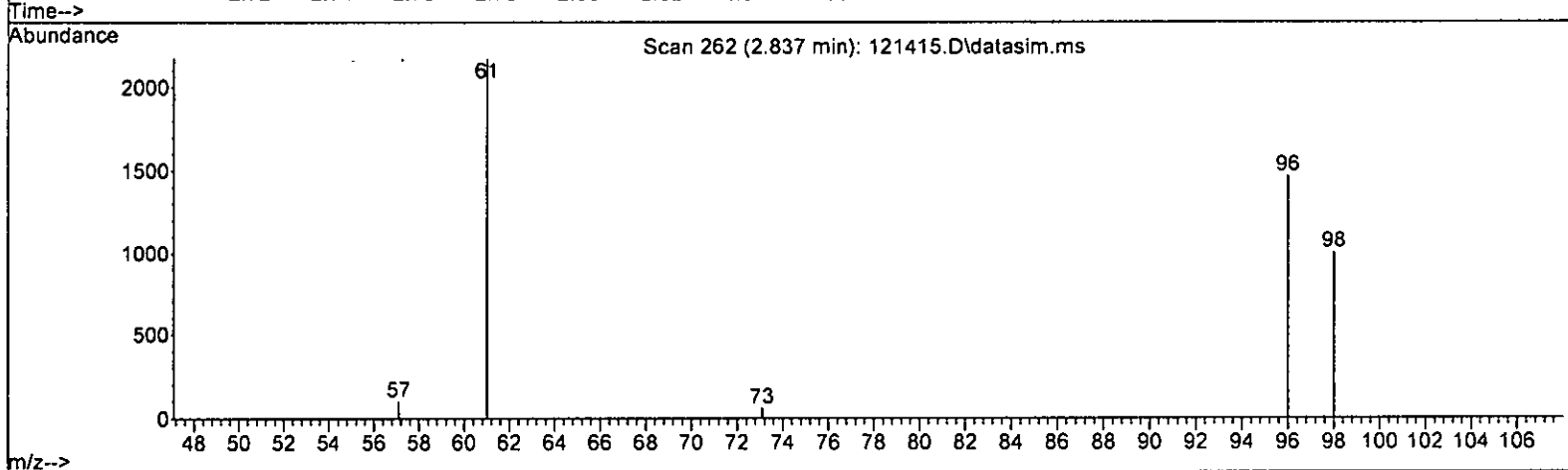
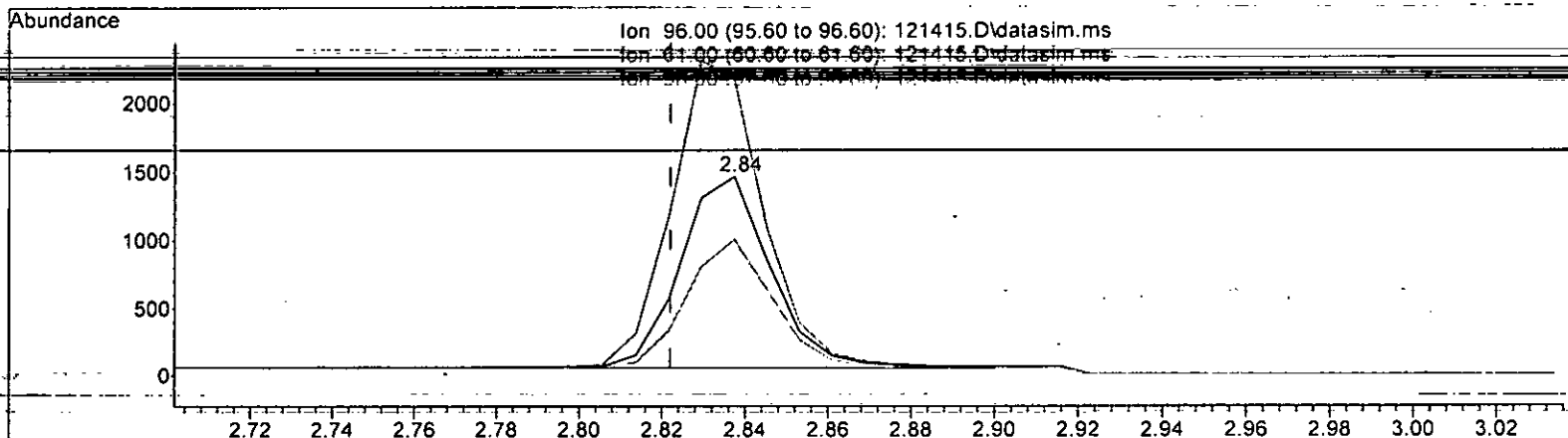
response	2538
Ion	Exp% Act%
96.00	100.00 100.00
61.00	171.80 148.46
98.00	61.00 68.49
0.00	0.00 0.00

*m* 12.14

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121415.D  
 Acq On : 14 Dec 2022 10:14 am  
 Operator : LM  
 Sample : 212083-05 rr 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:33 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 121415.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.837min (+ 0.015) 1.607 ppb m

response 2129

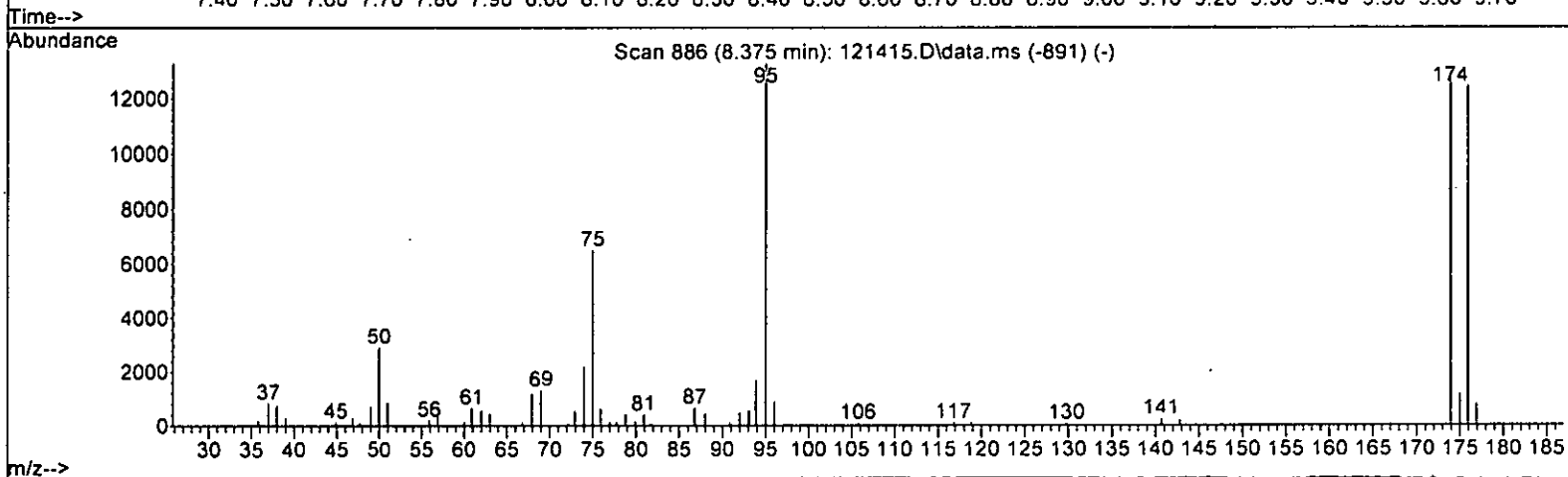
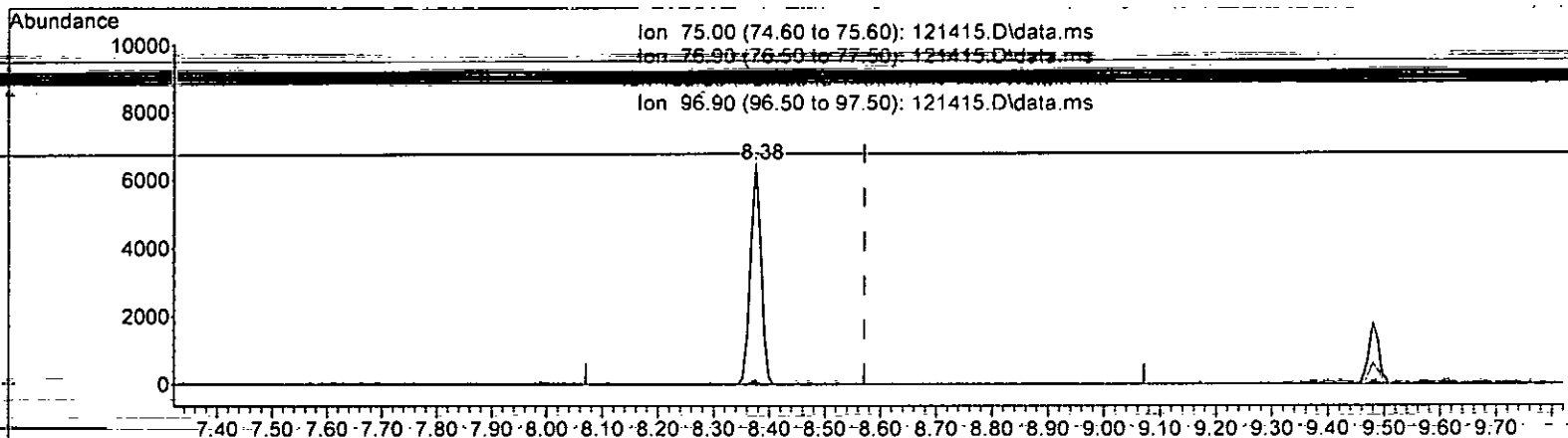
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	171.80	148.46
98.00	61.00	68.49
0.00	0.00	0.00

*LM 12.14*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121415.D  
 Acq On : 14 Dec 2022 10:14 am  
 Operator : LM  
 Sample : 212083-05 rr 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:33 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121415.D\data.ms

(62) 1,2,3-Trichloropropane (TMP)

8.375min (-0.196) 6.857 ppb

response	8589	
Ion	Exp%	Act%
75.00	100.00	100.00
76.90	29.70	1.73
109.90	40.90	0.00#
96.90	19.00	0.00

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121415.D  
 Acq On : 14 Dec 2022 10:14 am  
 Operator : LM  
 Sample : 212083-05 rr 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:33 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

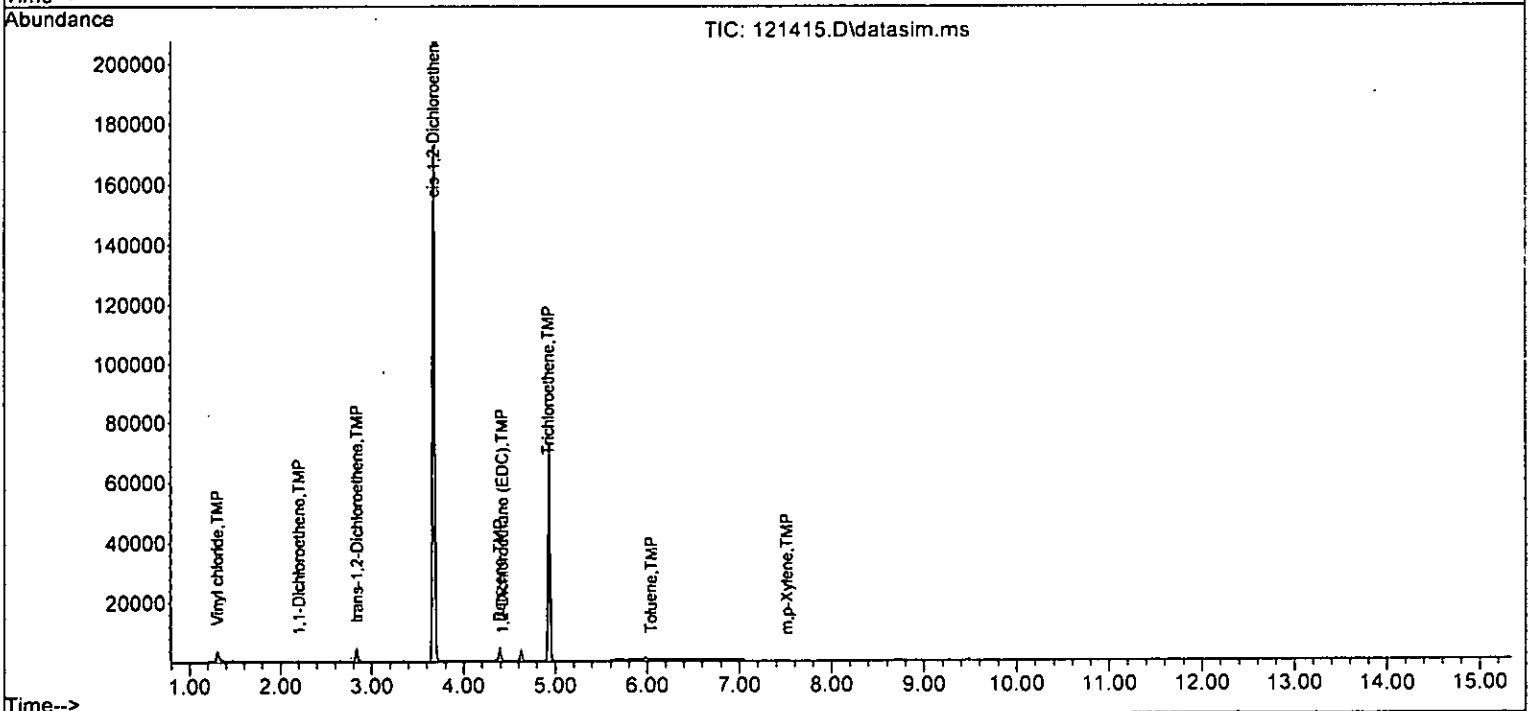
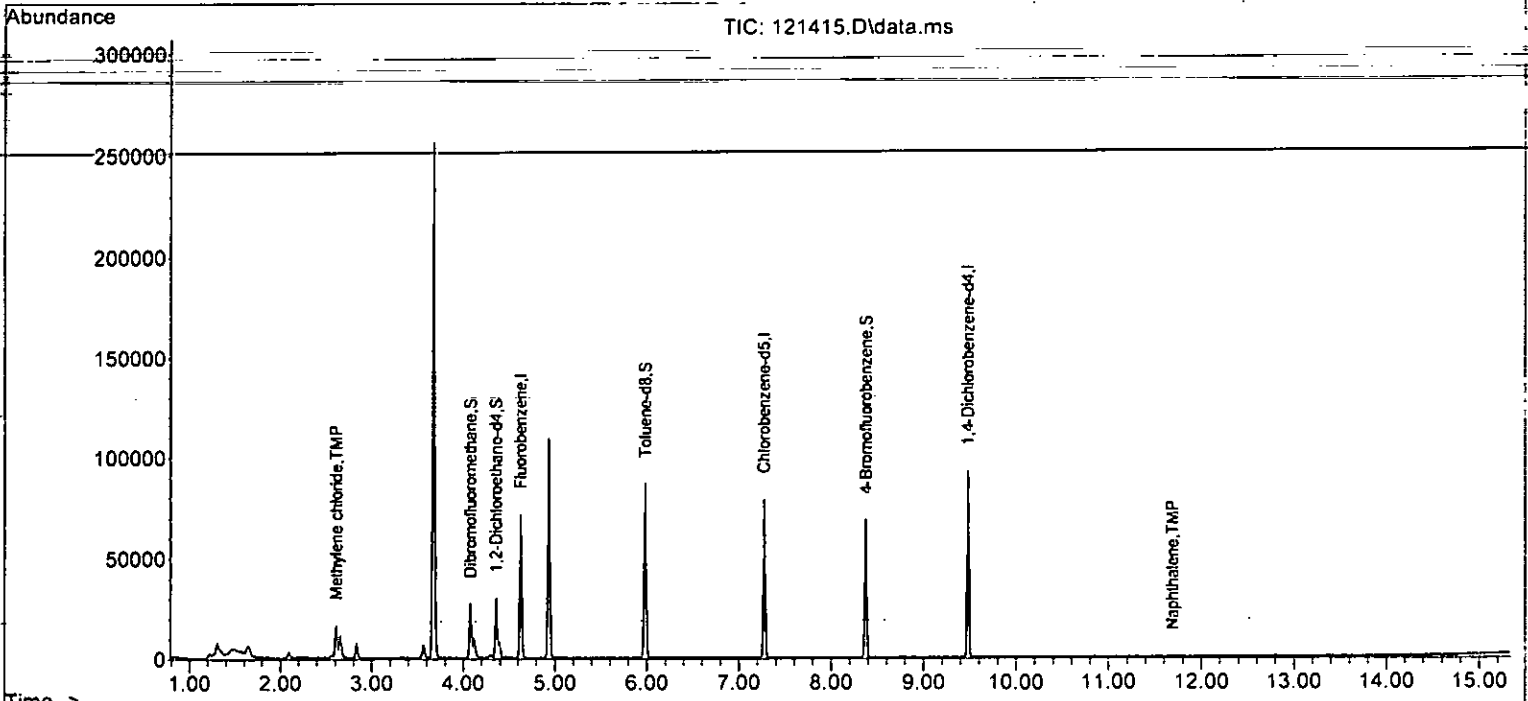
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	48671	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	38195	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	21381	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	12727	9.911	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.10%
30) 1,2-Dichloroethane-d4	4.36	102	2756	9.386	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	93.90%
35) Toluene-d8	5.98	98	45095	9.650	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	96.50%
57) 4-Bromofluorobenzene	8.38	95	17799	9.860	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	98.60%
<b>Target Compounds</b>						
6] Vinyl chloride	1.31	62	6292m	1.767	ppb	
12] 1,1-Dichloroethene	2.20	96	169	0.144	ppb	94
14] Methylene chloride	2.61	84	5661	4.323	ppb	88
17] trans-1,2-Dichloroethene	2.84	96	2129m	1.607	ppb	
22] cis-1,2-Dichloroethene	3.67	96	86657	62.171	ppb	96
26] 1,2-Dichloroethane (EDC)	4.42	62	156	0.078	ppb	97
31] Benzene	4.39	78	5313	1.093	ppb	100
32] Trichloroethene	4.93	95	28554	18.590	ppb	98
40] Toluene	6.04	92	88	0.027	ppb	96
51] m,p-Xylene	7.52	106	57	0.025	ppb	99
75] Naphthalene	11.69	128	338	0.061	ppb	67

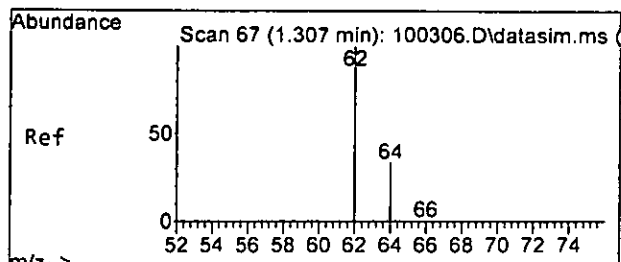
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121415.D  
 Acq On : 14 Dec 2022 10:14 am  
 Operator : LM  
 Sample : 212083-05 rr 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

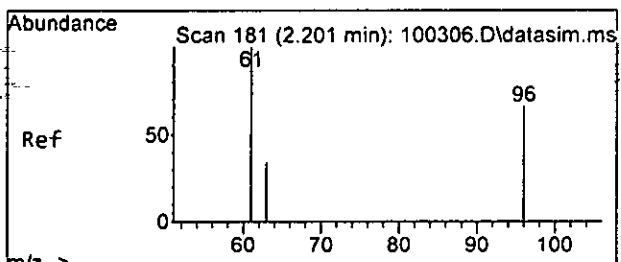
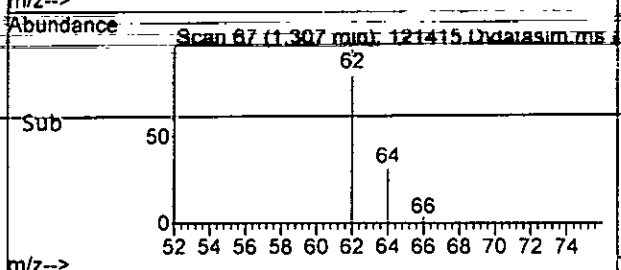
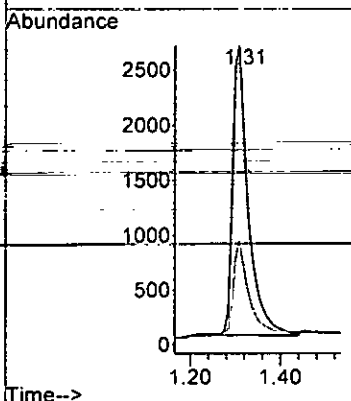
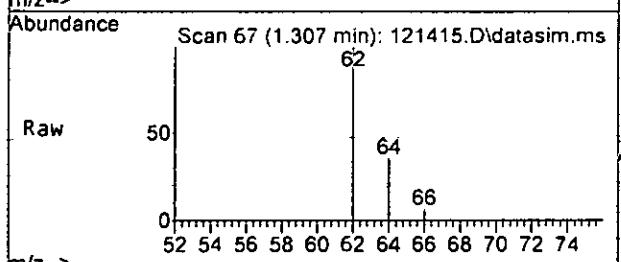
Quant Time: Dec 14 12:04:33 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





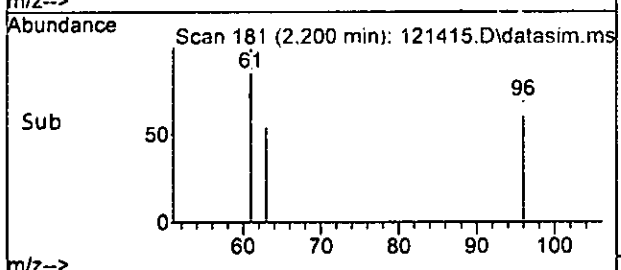
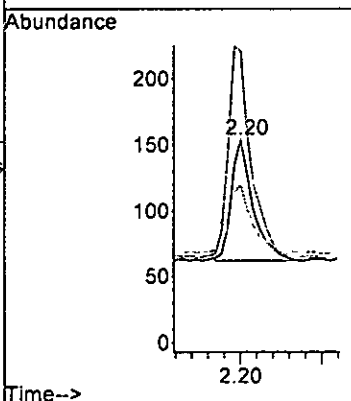
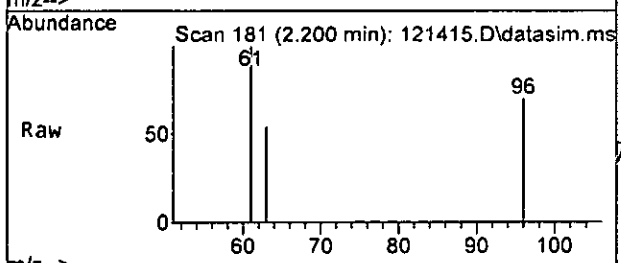
#6  
 Vinyl chloride  
 Concen: 1.767 ppb m  
 RT: 1.31 min Scan# 67  
 Delta R.T. 0.015 min  
 Lab File: 121415.D  
 Acq: 14 Dec 2022 10:14 am

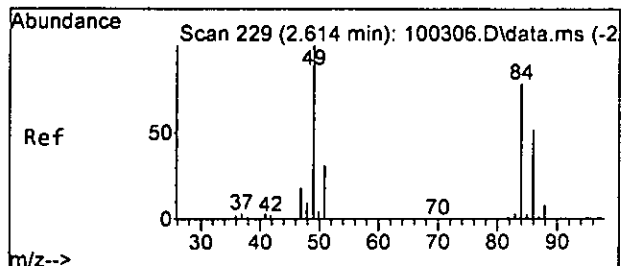
Tgt Ion: 62 Resp: 6292  
 Ion Ratio Lower Upper  
 62 100  
 64 34.7 0.0 58.8



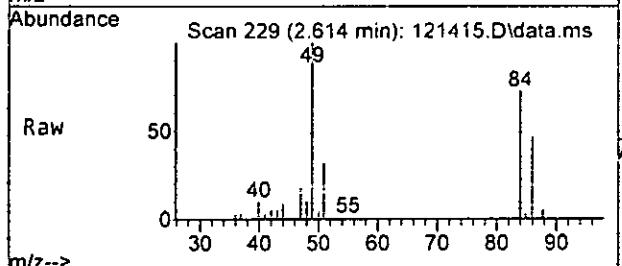
#12  
 1,1-Dichloroethene  
 Concen: 0.144 ppb  
 RT: 2.20 min Scan# 181  
 Delta R.T. 0.015 min  
 Lab File: 121415.D  
 Acq: 14 Dec 2022 10:14 am

Tgt Ion: 96 Resp: 169  
 Ion Ratio Lower Upper  
 96 100  
 61 168.5 130.0 190.0  
 63 56.5 23.7 83.7

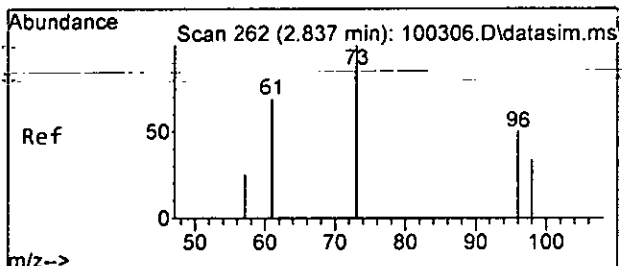
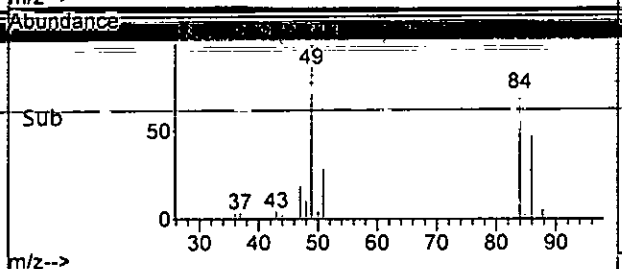
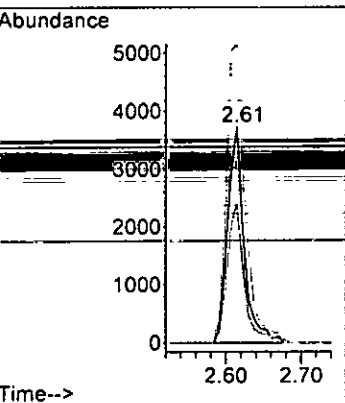




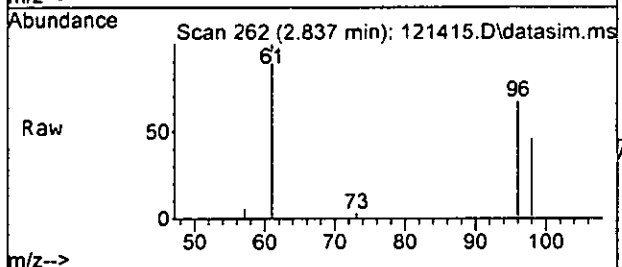
#14  
 Methylene chloride  
 Concen: 4.323 ppb  
 RT: 2.61 min Scan# 229  
 Delta R.T. 0.015 min  
 Lab File: 121415.D  
 Acq: 14 Dec 2022 10:14 am



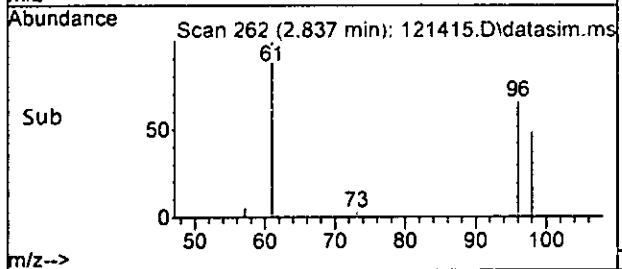
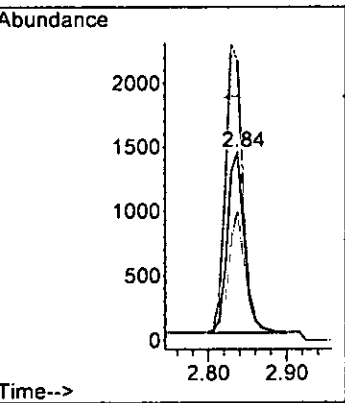
Tgt Ion: 84 Resp: 5661  
 Ion Ratio Lower Upper  
 84 100  
 86 64.4 30.4 90.4  
 49 138.0 127.9 187.9

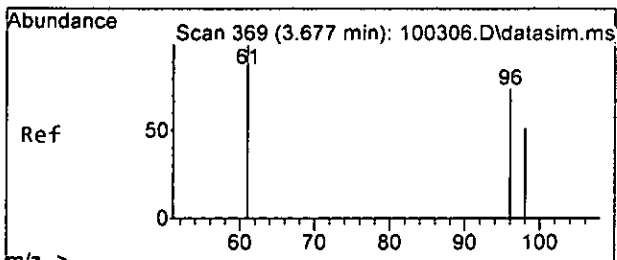


#17  
 trans-1,2-Dichloroethene  
 Concen: 1.607 ppb m  
 RT: 2.84 min Scan# 262  
 Delta R.T. 0.015 min  
 Lab File: 121415.D  
 Acq: 14 Dec 2022 10:14 am



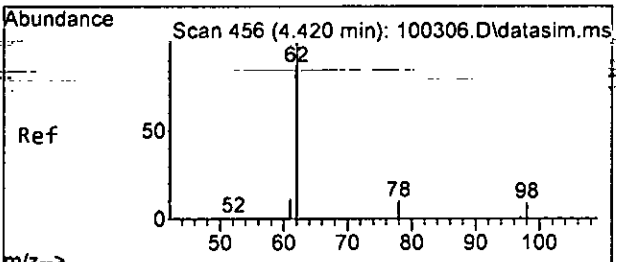
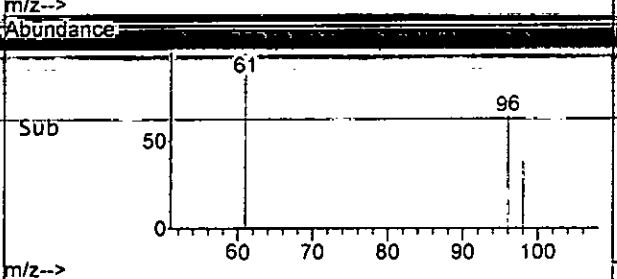
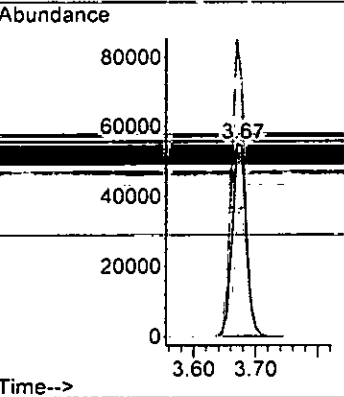
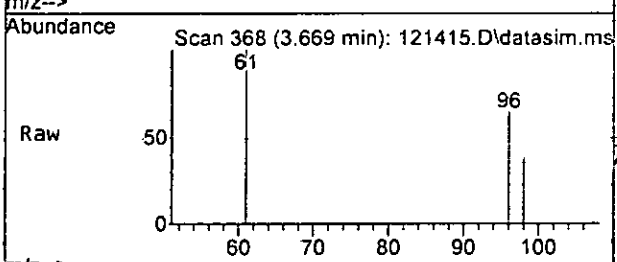
Tgt Ion: 96 Resp: 2129  
 Ion Ratio Lower Upper  
 96 100  
 61 148.5 141.8 201.8  
 98 68.5 31.0 91.0





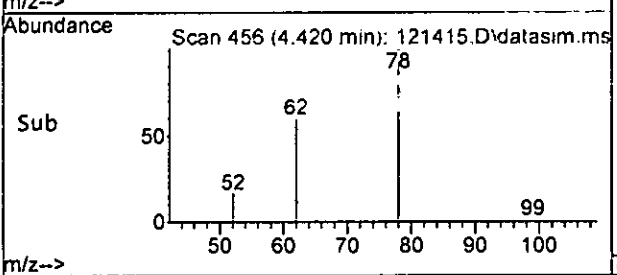
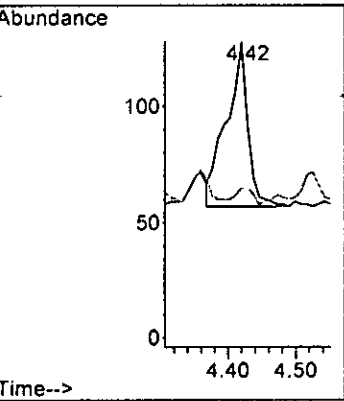
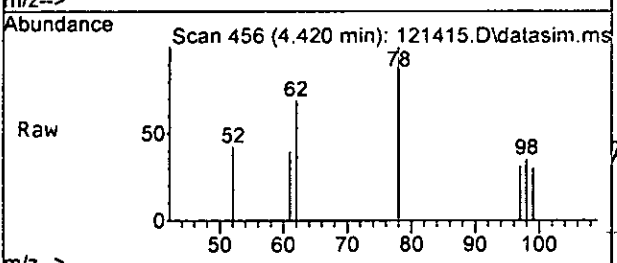
#22  
 cis-1,2-Dichloroethene  
 Concen: 62.171 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. -0.000 min  
 Lab File: 121415.D  
 Acq: 14 Dec 2022 10:14 am

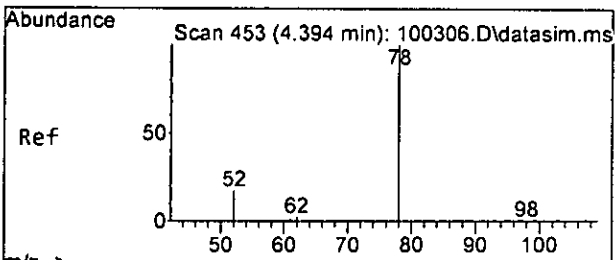
Tgt Ion: 96 Resp: 86657  
 Ion Ratio Lower Upper  
 96 100  
 61 155.1 132.4 192.4  
 98 58.9 29.7 89.7



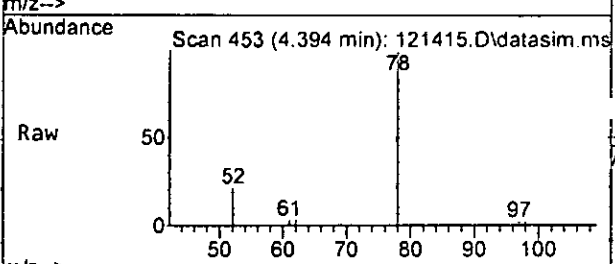
#26  
 1,2-Dichloroethane (EDC)  
 Concen: 0.078 ppb  
 RT: 4.42 min Scan# 456  
 Delta R.T. 0.009 min  
 Lab File: 121415.D  
 Acq: 14 Dec 2022 10:14 am

Tgt Ion: 62 Resp: 156  
 Ion Ratio Lower Upper  
 62 100  
 98 7.0 0.0 38.2

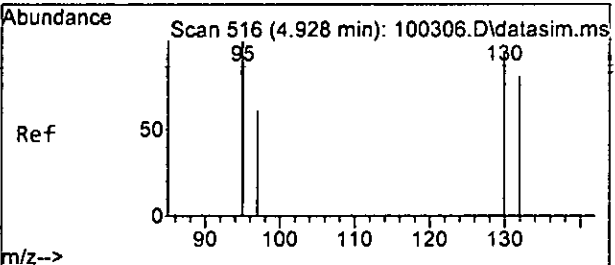
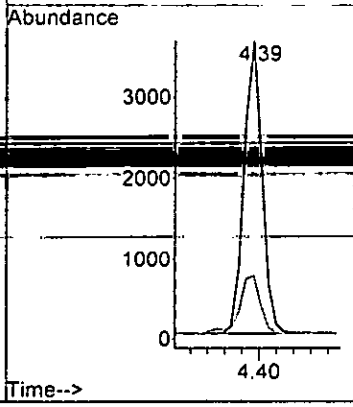
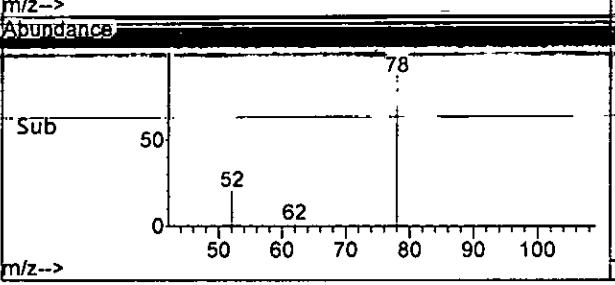




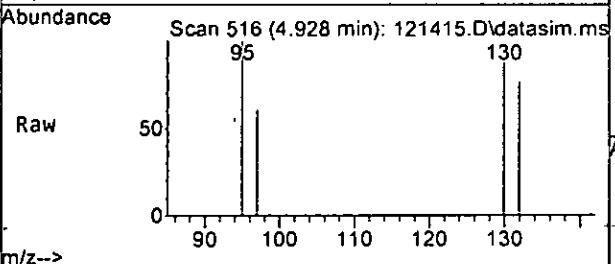
#31  
Benzene  
Concen: 1.093 ppb  
RT: 4.39 min Scan# 453  
Delta R.T. 0.009 min  
Lab File: 121415.D  
Acq: 14 Dec 2022 10:14 am



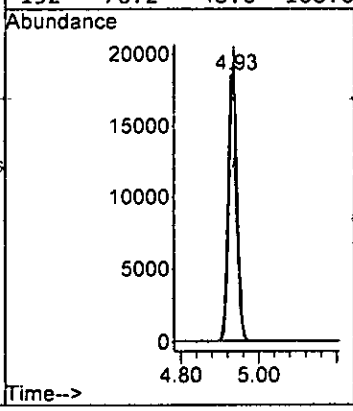
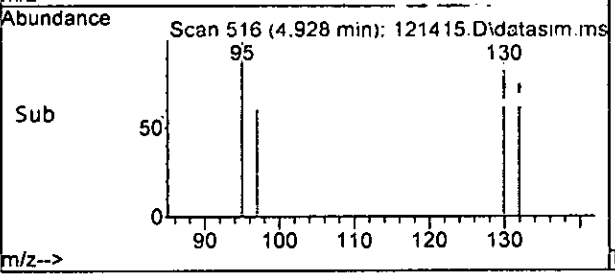
Tgt Ion: 78 Resp: 5313  
Ion Ratio Lower Upper  
78 100  
52 20.0 0.0 49.9

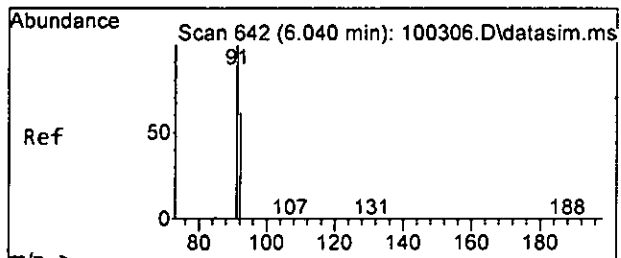


#32  
Trichloroethene  
Concen: 18.590 ppb  
RT: 4.93 min Scan# 516  
Delta R.T. -0.000 min  
Lab File: 121415.D  
Acq: 14 Dec 2022 10:14 am



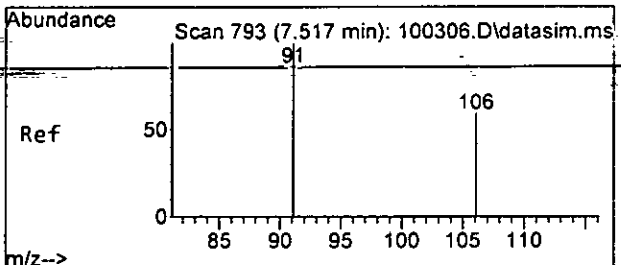
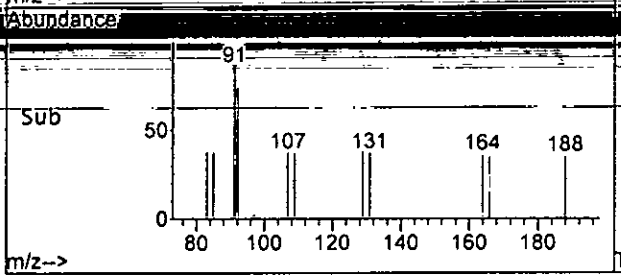
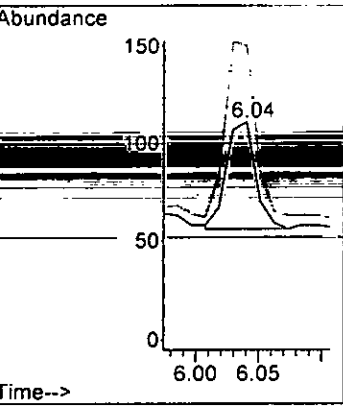
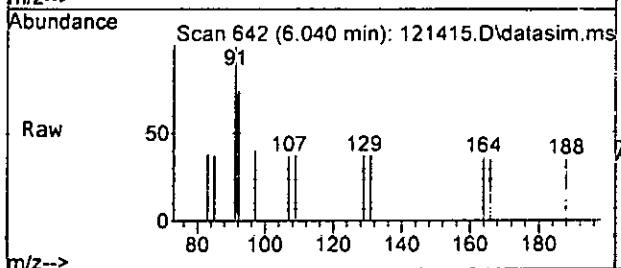
Tgt Ion: 95 Resp: 28554  
Ion Ratio Lower Upper  
95 100  
97 60.3 30.5 90.5  
130 88.3 60.4 120.4  
132 76.2 48.0 108.0





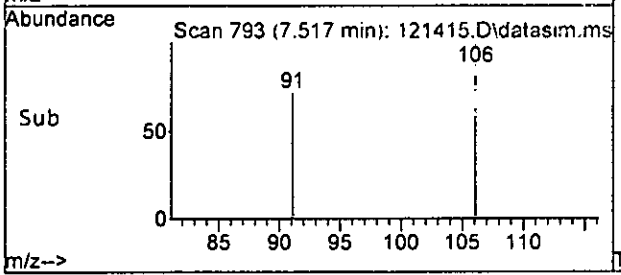
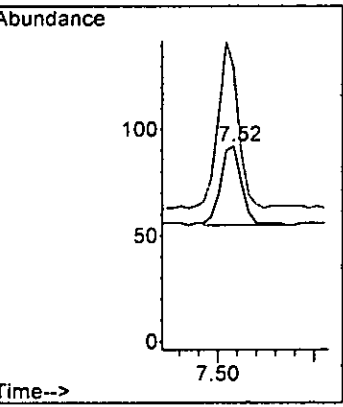
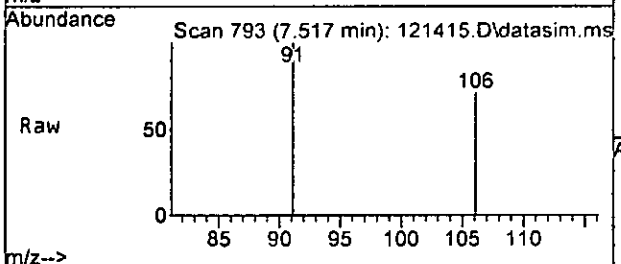
#40  
 Toluene  
 Concen: 0.027 ppb  
 RT: 6.04 min Scan# 642  
 Delta R.T. 0.011 min  
 Lab File: 121415.D  
 Acq: 14 Dec 2022 10:14 am

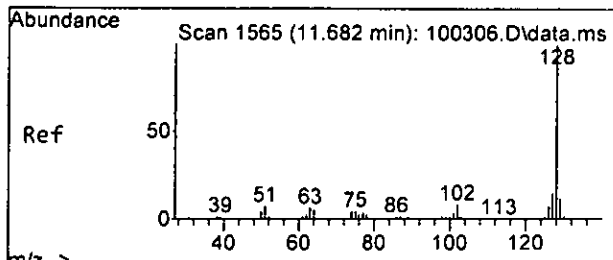
Tgt Ion: 92 Resp: 88  
 Ion Ratio Lower Upper  
 92 100  
 91 160.0 135.6 195.6



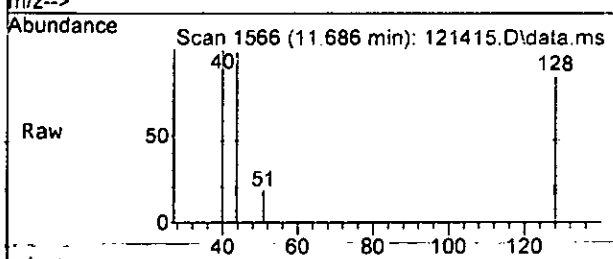
#51  
 m,p-Xylene  
 Concen: 0.025 ppb  
 RT: 7.52 min Scan# 793  
 Delta R.T. 0.008 min  
 Lab File: 121415.D  
 Acq: 14 Dec 2022 10:14 am

Tgt Ion: 106 Resp: 57  
 Ion Ratio Lower Upper  
 106 100  
 91 175.7 147.7 207.7



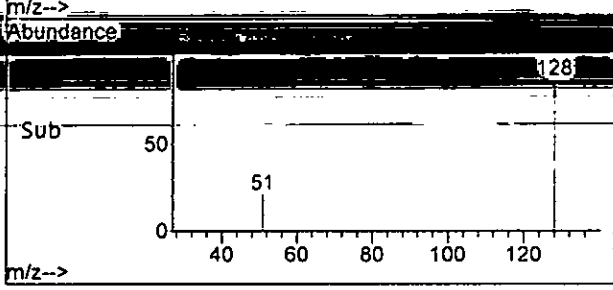
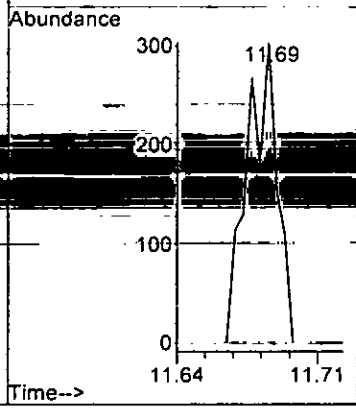


#75  
 Naphthalene  
 Concen: 0.061 ppb  
 RT: 11.69 min Scan# 1566  
 Delta R.T. 0.005 min  
 Lab File: 121415.D  
 Acq: 14 Dec 2022 10:14 am



Tgt Ion: 128 Resp: 338

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	41.9
127	0.0	0.0	43.8



Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121415.D  
 Acq On : 14 Dec 2022 10:14 am  
 Operator : LM  
 Sample : 212083-05 rr 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:33 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	48671	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38195	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21381	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	12727	9.911	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.10%	
30) 1,2-Dichloroethane-d4	4.36	102	2756	9.386	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	93.90%	
35) Toluene-d8	5.98	98	45095	9.650	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	96.50%	
57) 4-Bromofluorobenzene	8.38	95	17799	9.860	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	98.60%	
<b>Target Compounds</b>							
							Qvalue.
2) Ethanol	0.00		0		N.D.		
4) Dichlorodifluoromethane	0.00		0		N.D.		
5) Chloromethane	1.23	50	204		N.D.		
6] Vinyl chloride	1.31	62	6292m	1.767	ppb		
7) Bromomethane	0.00		0		N.D.	d	
8) Chloroethane	0.00		0		N.D.		
9) Trichlorofluoromethane	0.00		0		N.D.		
10) 2-Propanol	0.00		0		N.D.		
11) Acetone	2.27	58	138		N.D.		
12] 1,1-Dichloroethene	2.20	96	169	0.144	ppb		94
13) Hexane	0.00		0		N.D.		
14) Methylene chloride	2.61	84	5661	4.323	ppb		88
15) t-Butyl alcohol (TBA)	0.00		0		N.D.		
16) Methyl t-butyl ether (...)	0.00		0		N.D.		
17] trans-1,2-Dichloroethene	2.84	96	2129m	1.607	ppb		
18) Diisopropyl ether (DIPE)	0.00		0		N.D.		
19) 1,1-Dichloroethane	0.00		0		N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.		
21) 2,2-Dichloropropane	0.00		0		N.D.		
22] cis-1,2-Dichloroethene	3.67	96	86657	62.171	ppb		96
23) Chloroform	0.00		0		N.D.		
24) 2-Butanone (MEK)	3.71	43	84		N.D.		
25) t-Amyl methyl ether (T...)	4.43	73	63		N.D.		
26] 1,2-Dichloroethane (EDC)	4.42	62	156	0.078	ppb		97
27) 1,1,1-Trichloroethane	0.00		0		N.D.		
28) 1,1-Dichloropropene	0.00		0		N.D.		
29) Carbon tetrachloride	0.00		0		N.D.		
31] Benzene	4.39	78	5313	1.093	ppb		100
32] Trichloroethene	4.93	95	28554	18.590	ppb		98
33) 1,2-Dichloropropane	0.00		0		N.D.		
34) Bromodichloromethane	0.00		0		N.D.		
36) Dibromomethane	0.00		0		N.D.		



Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121415.D  
 Acq On : 14 Dec 2022 10:14 am  
 Operator : LM  
 Sample : 212083-05 rr 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

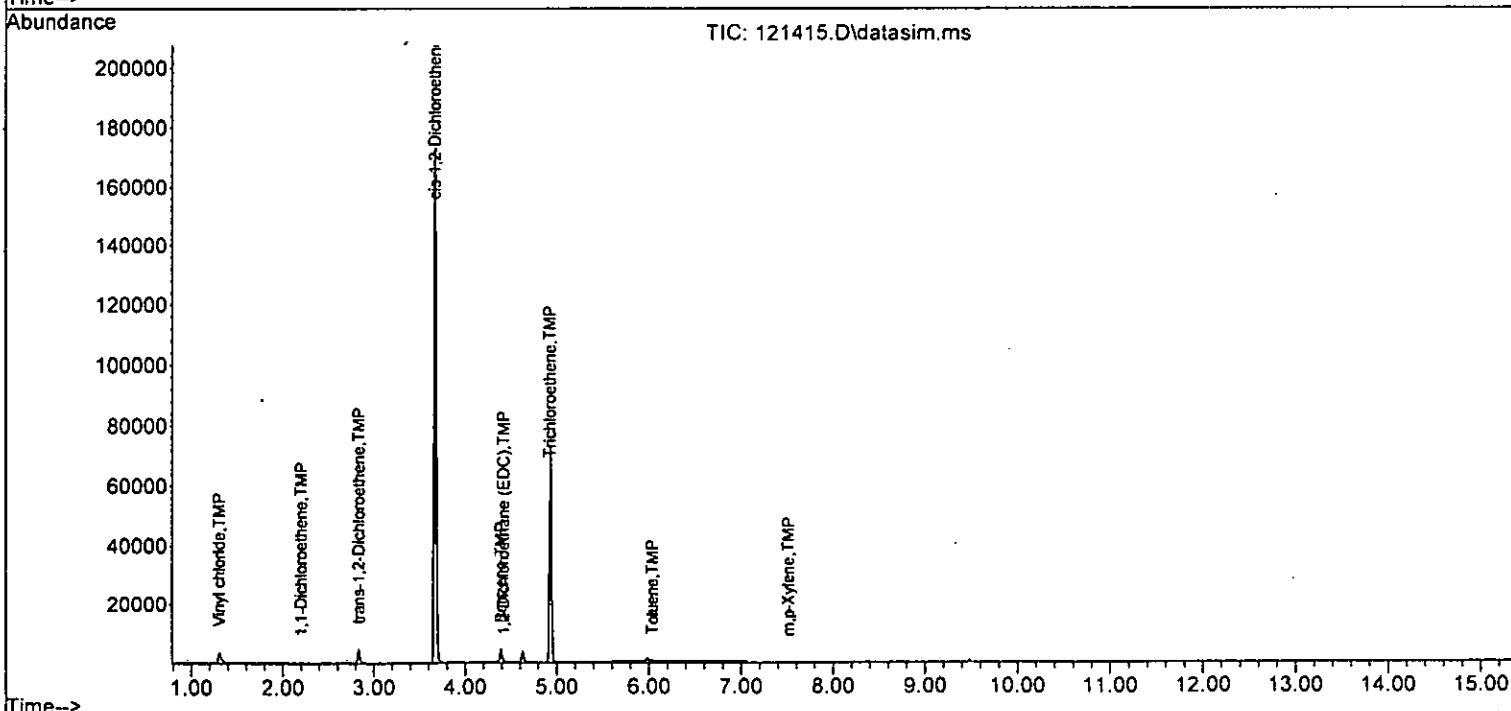
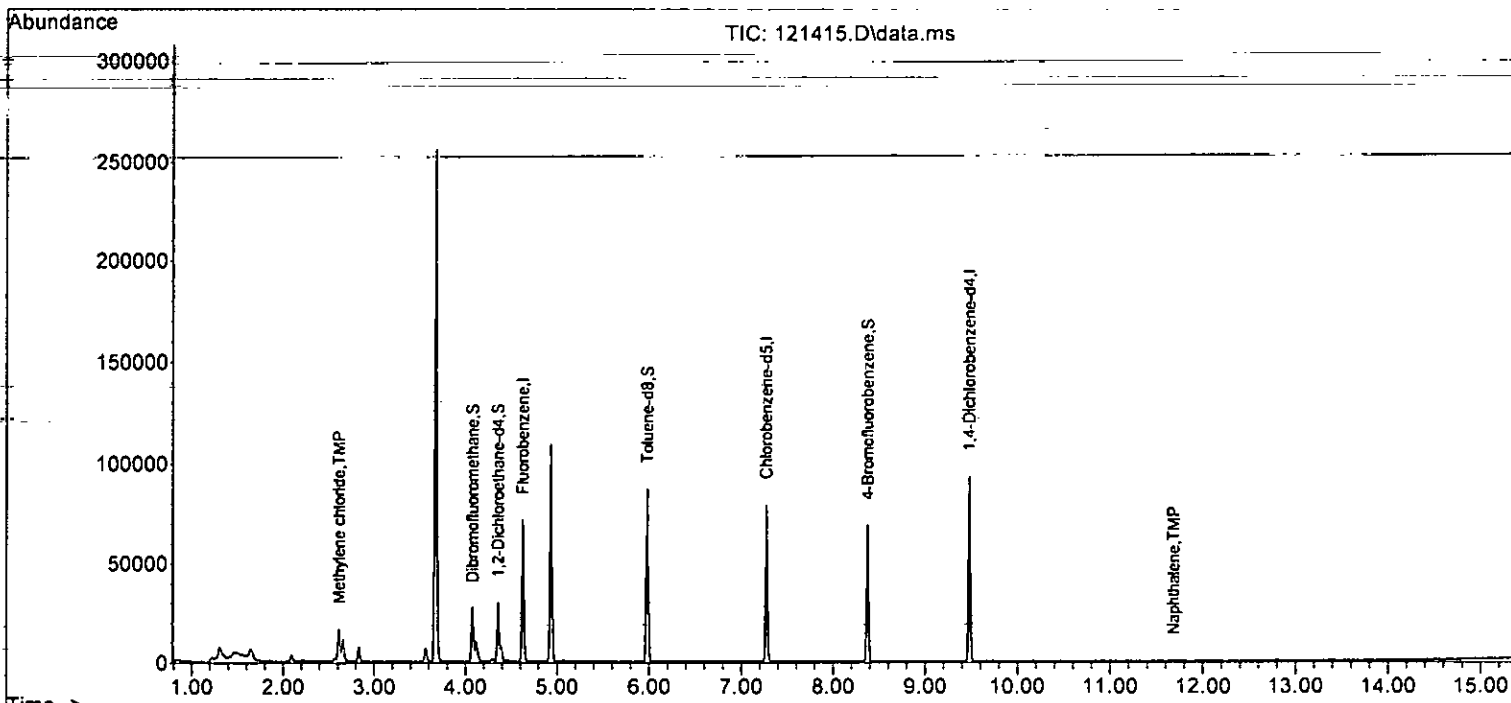
Quant Time: Dec 14 12:04:33 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	0.00		0	N.D.		
40) Toluene	6.04	92	88	0.027	ppb	96
41) trans-1,3-Dichloropropene	0.00		0	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.		
43) 2-Hexanone	6.49	43	123	N.D.		
44) 1,3-Dichloropropane	0.00		0	N.D.		
45) Tetrachloroethene	0.00		0	N.D.		
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.		
48) Chlorobenzene	0.00		0	N.D.		
49) Ethylbenzene	7.40	91	58	N.D.		
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51) m,p-Xylene	7.52	106	57	0.025	ppb	99
52) o-Xylene	0.00		0	N.D.		
53) Styrene	0.00		0	N.D.		
54) Isopropylbenzene	0.00		0	N.D.		
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	8.62	91	93	N.D.		
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	8.79	105	108	N.D.		
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	8.62	91	93	N.D.		
64) 4-Chlorotoluene	8.81	91	78	N.D.		
65) tert-Butylbenzene	0.00		0	N.D.		
66) 1,2,4-Trimethylbenzene	9.31	105	58	N.D.		
67) sec-Butylbenzene	9.31	105	58	N.D.		
68) p-Isopropyltoluene	0.00		0	N.D.		
69) 1,3-Dichlorobenzene	0.00		0	N.D.		
70) 1,4-Dichlorobenzene	0.00		0	N.D.		
71) 1,2-Dichlorobenzene	0.00		0	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	11.69	128	338	0.061	ppb	67
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121415.D  
 Acq On : 14 Dec 2022 10:14 am  
 Operator : LM  
 Sample : 212083-05 rr 1/10  
 Misc : water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS11

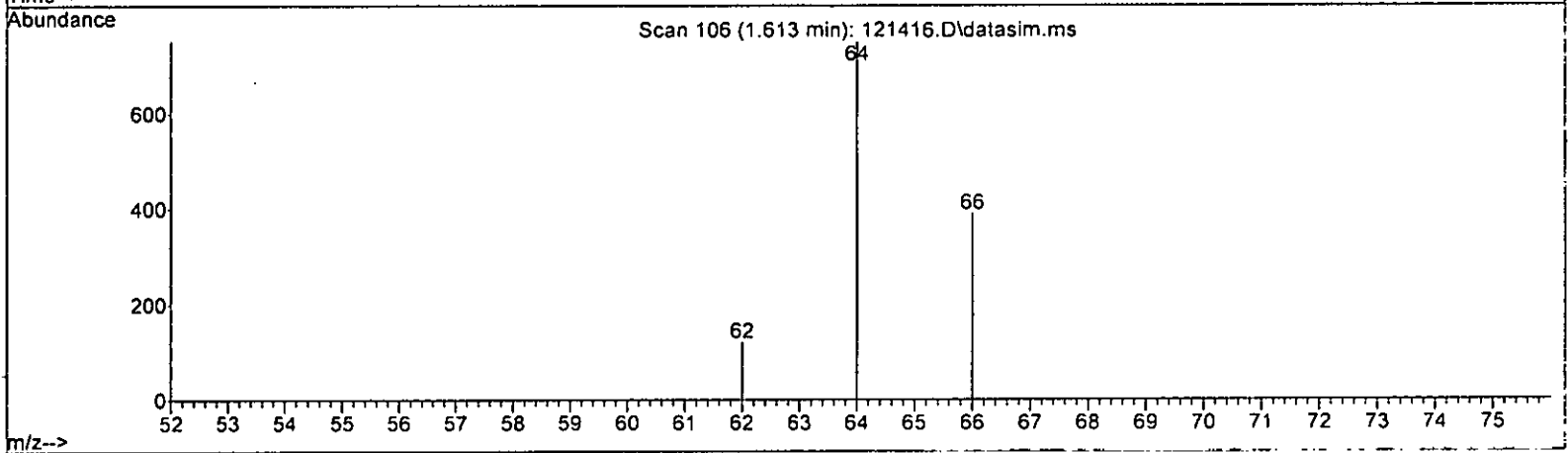
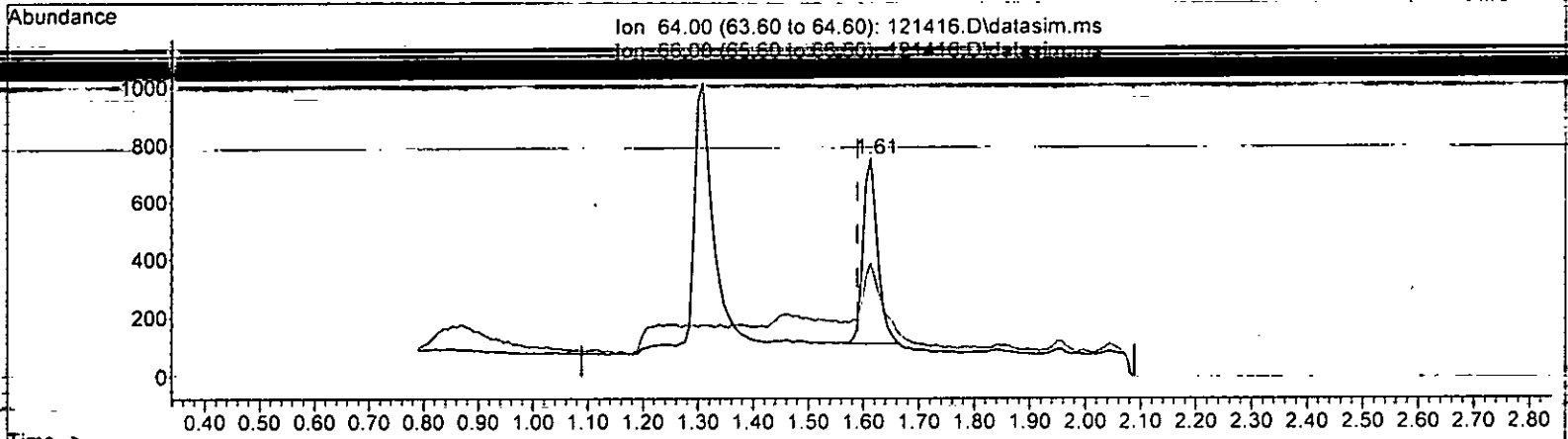
Quant Time: Dec 14 12:04:33 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121416.D  
 Acq On : 14 Dec 2022 10:37 am  
 Operator : LM  
 Sample : 212083-06 rr  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:37 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121416.D\data.ms

(8) Chloroethane (TMP) *LM 12.14*

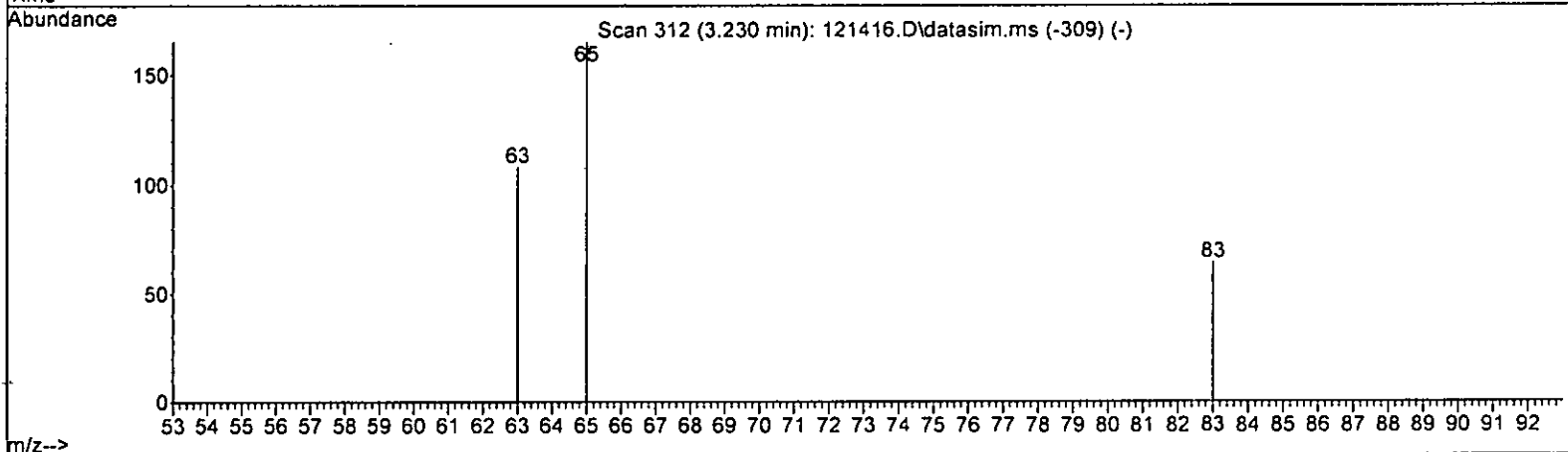
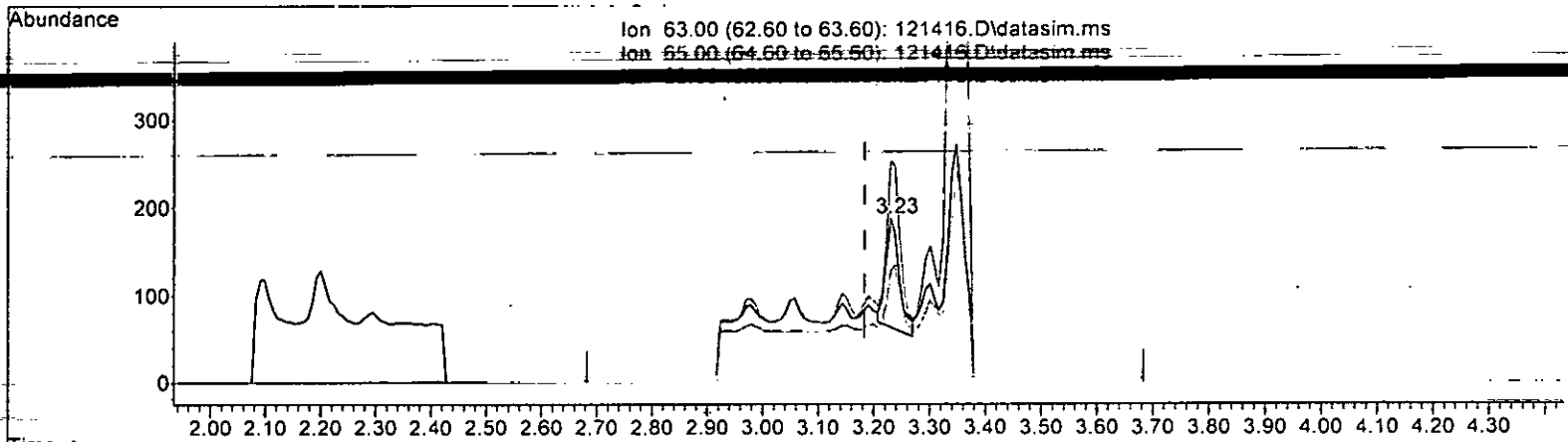
1.613min (+ 0.024) 0.713 ppb m

response	1139
Ion	Exp% Act%
64.00	100.00 100.00
66.00	29.60 51.66
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121416.D  
 Acq On : 14 Dec 2022 10:37 am  
 Operator : LM  
 Sample : 212083-06 rr  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:37 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121416.D\data.ms

(19) 1,1-Dichloroethane (TMP)  
 3.230min (+ 0.047) 0.089 ppb  
 response 212

Ion	Exp%	Act%
63.00	100.00	100.00
65.00	32.30	152.54#
83.00	13.70	55.93#
0.00	0.00	0.00

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121416.D  
 Acq On : 14 Dec 2022 10:37 am  
 Operator : LM  
 Sample : 212083-06 rr  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

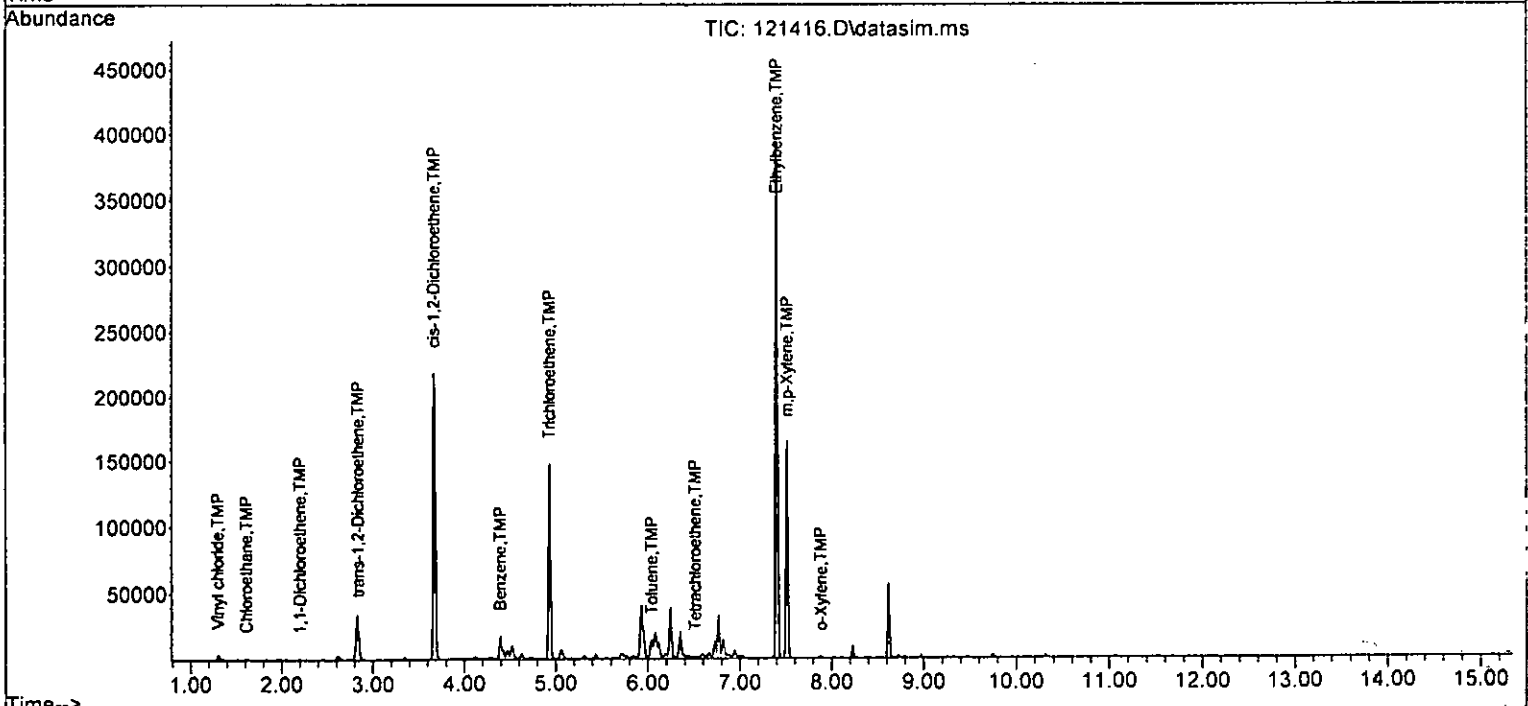
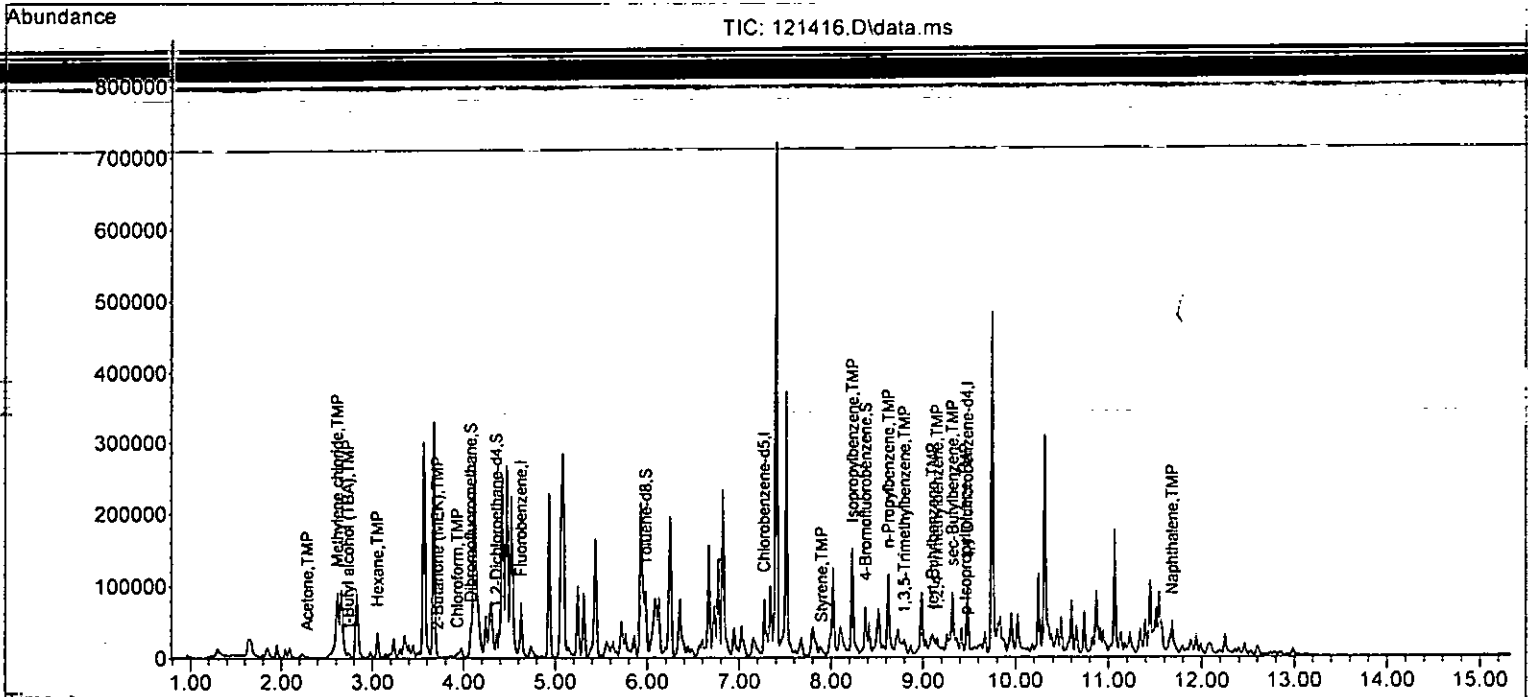
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 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

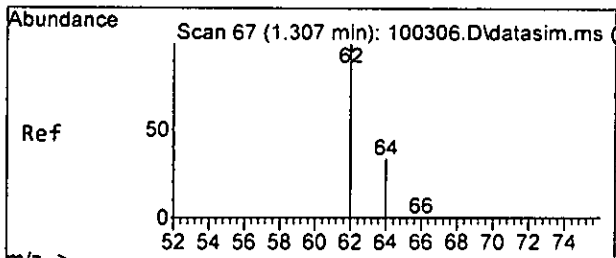
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	47485	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	37202	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	20780	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	12769	10.192	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	101.90%		
30) 1,2-Dichloroethane-d4	4.36	102	2835	9.896	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery =	99.00%		
35) Toluene-d8	5.98	98	47379	10.392	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery =	103.90%		
57) 4-Bromofluorobenzene	8.38	95	16902	9.634	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery =	96.30%		
<b>Target Compounds</b>						
6] Vinyl chloride	1.30	62	6842	1.969	ppb	100
8] Chloroethane	1.61	64	1139m	0.713	ppb	
11) Acetone	2.28	58	632	3.575	ppb	# 74
12] 1,1-Dichloroethene	2.20	96	199	0.174	ppb	98
13) Hexane	3.05	57	14742	7.158	ppb	97
14) Methylene chloride	2.61	84	3543	2.773	ppb	# 83
15) t-Butyl alcohol (TBA)	2.73	59	6547	29.855	ppb	55
17] trans-1,2-Dichloroethene	2.84	96	7316	5.659	ppb	85
22] cis-1,2-Dichloroethene	3.67	96	108570	79.838	ppb	95
23) Chloroform	3.93	83	1248	0.551	ppb	# 30
24) 2-Butanone (MEK)	3.71	43	499	0.575	ppb	54
31] Benzene	4.39	78	20709	4.366	ppb	99
32] Trichloroethene	4.94	95	58028	38.723	ppb	# 77
40] Toluene	6.04	92	6687	2.096	ppb	99
45] Tetrachloroethene	6.51	164	264	0.207	ppb	97
49] Ethylbenzene	7.40	91	426746	71.189	ppb	99
51] m,p-Xylene	7.52	106	74034	32.767	ppb	90
52] o-Xylene	7.88	106	511	0.231	ppb	94
53) Styrene	7.90	104	392	0.108	ppb	70
54) Isopropylbenzene	8.23	105	83723	14.390	ppb	99
58) n-Propylbenzene	8.63	91	70869	10.394	ppb	97
60) 1,3,5-Trimethylbenzene	8.80	105	7257	1.430	ppb	97
65) tert-Butylbenzene	9.10	119	3926	0.883	ppb	97
66) 1,2,4-Trimethylbenzene	9.15	105	5576	1.084	ppb	99
67) sec-Butylbenzene	9.32	105	27464	4.259	ppb	98
68) p-Isopropyltoluene	9.46	119	2677	0.482	ppb	93
75) Naphthalene	11.68	128	17606	3.262	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121416.D  
 Acq On : 14 Dec 2022 10:37 am  
 Operator : LM  
 Sample : 212083-06 rr  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

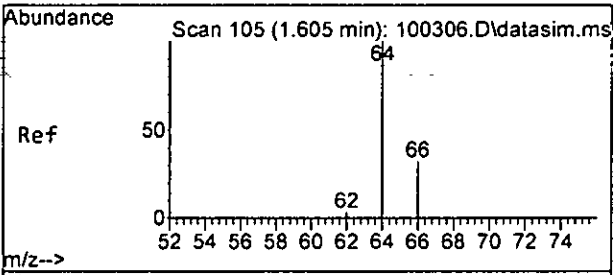
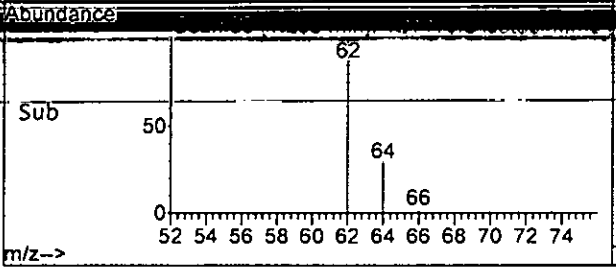
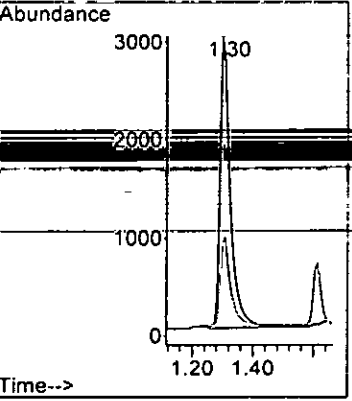
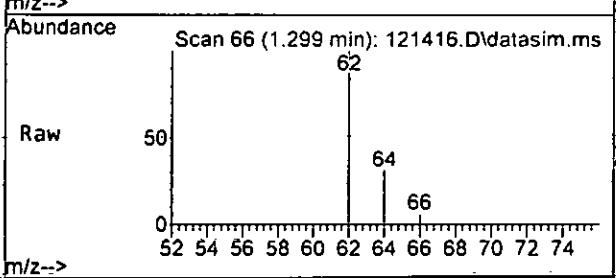
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 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





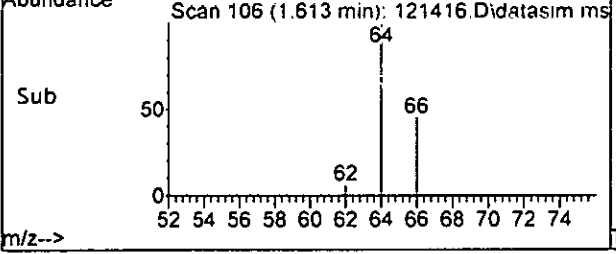
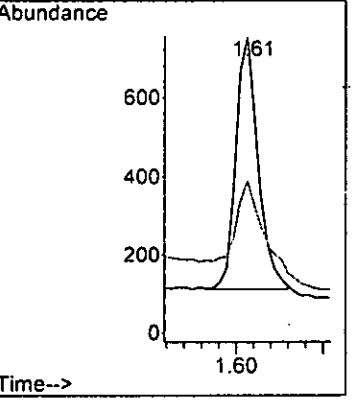
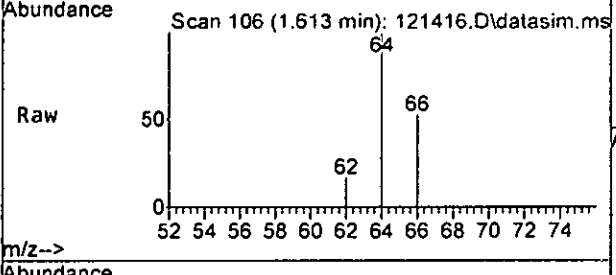
#6  
 Vinyl chloride  
 Concen: 1.969 ppb  
 RT: 1.30 min Scan# 66  
 Delta R.T. 0.007 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

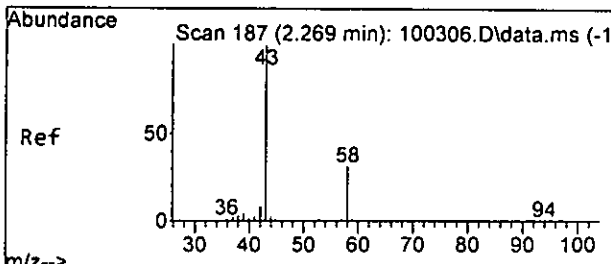
Tgt Ion: 62 Resp: 6842  
 Ion Ratio Lower Upper  
 62 100  
 64 28.7 0.0 58.8



#8  
 Chloroethane  
 Concen: 0.713 ppb m  
 RT: 1.61 min Scan# 106  
 Delta R.T. 0.024 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

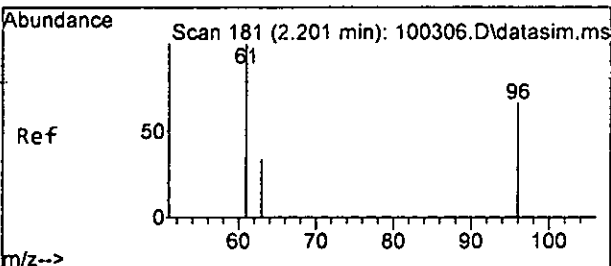
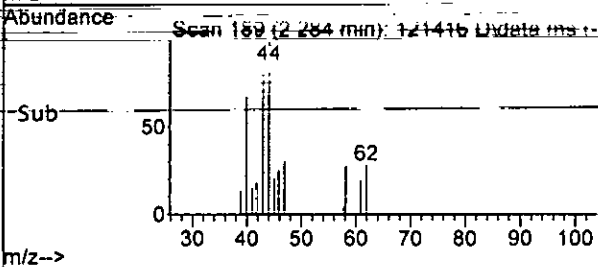
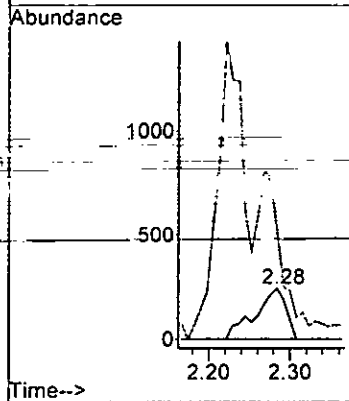
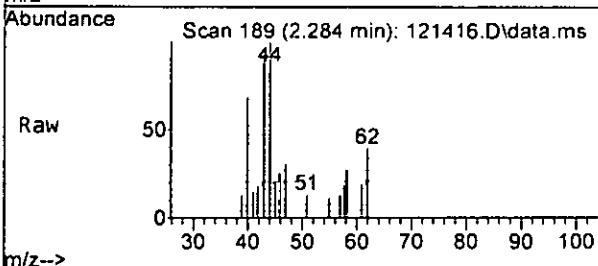
Tgt Ion: 64 Resp: 1139  
 Ion Ratio Lower Upper  
 64 100  
 66 51.7 0.0 59.6





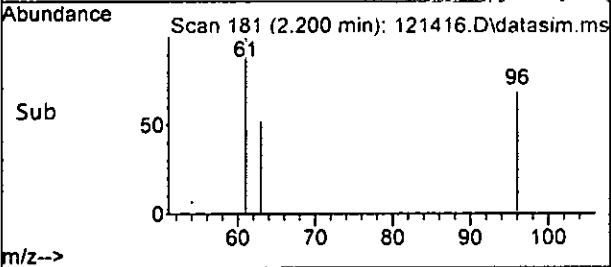
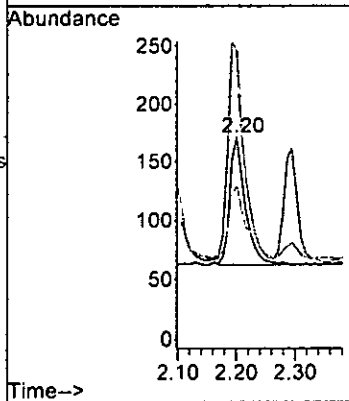
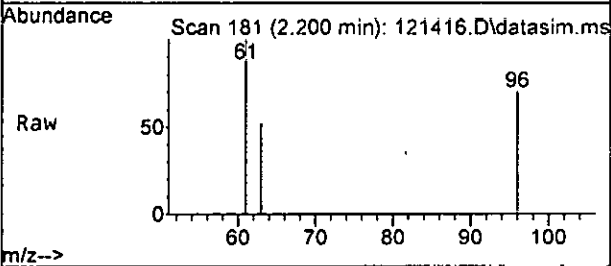
#11  
 Acetone  
 Concen: 3.575 ppb  
 RT: 2.28 min Scan# 189  
 Delta R.T. 0.023 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion: 58 Resp: 632  
 Ion Ratio Lower Upper  
 58 100  
 43 283.4 308.5 368.5#

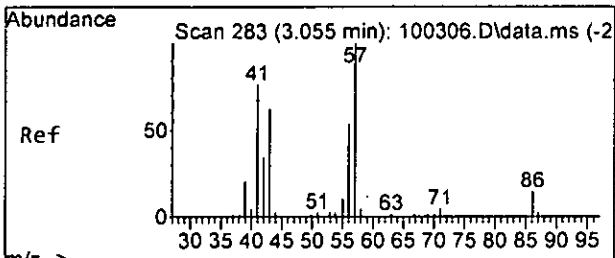


#12  
 1,1-Dichloroethene  
 Concen: 0.174 ppb  
 RT: 2.20 min Scan# 181  
 Delta R.T. 0.015 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion: 96 Resp: 199  
 Ion Ratio Lower Upper  
 96 100  
 61 163.3 130.0 190.0  
 63 54.1 23.7 83.7



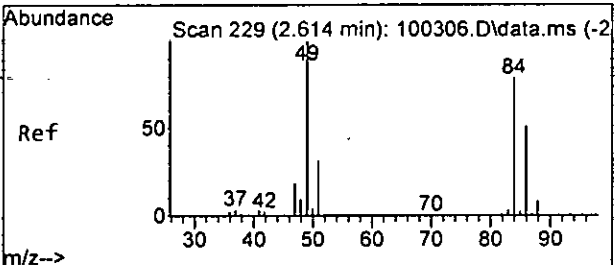
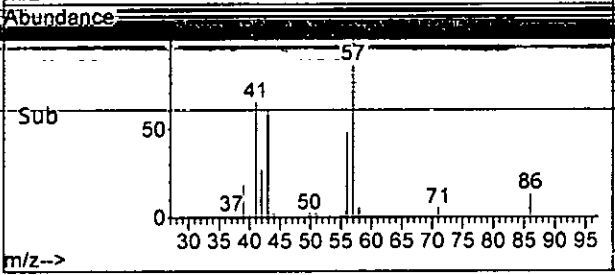
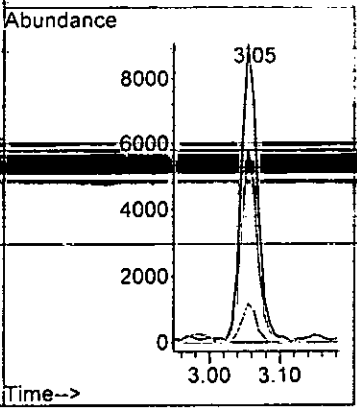
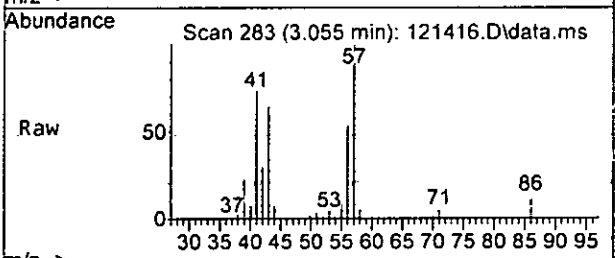




#13  
 Hexane  
 Concen: 7.158 ppb  
 RT: 3.05 min Scan# 283  
 Delta R.T. 0.008 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion: 57 Resp: 14742

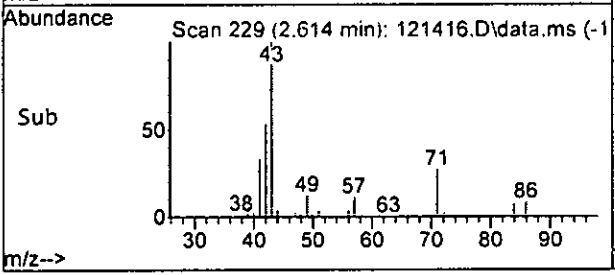
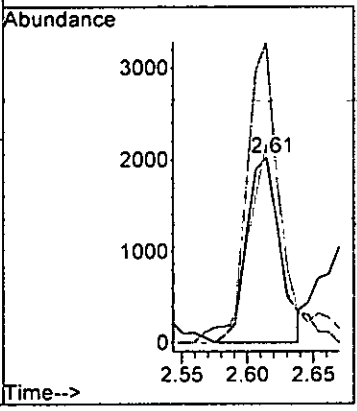
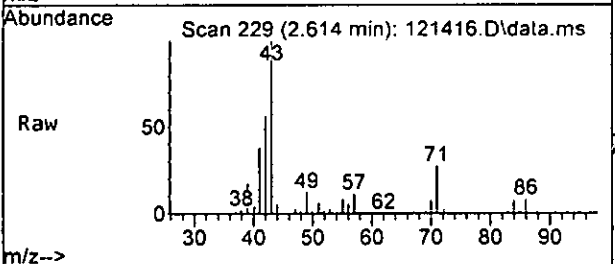
Ion	Ratio	Lower	Upper
57	100		
43	62.8	30.4	90.4
86	12.9	0.0	41.4

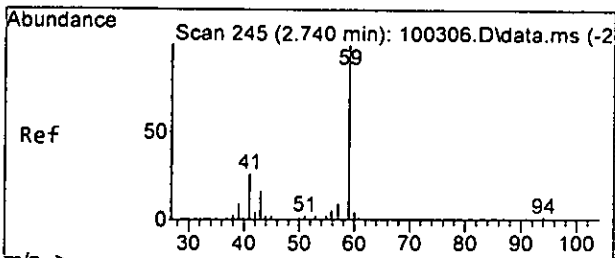


#14  
 Methylene chloride  
 Concen: 2.773 ppb  
 RT: 2.61 min Scan# 229  
 Delta R.T. 0.015 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion: 84 Resp: 3543

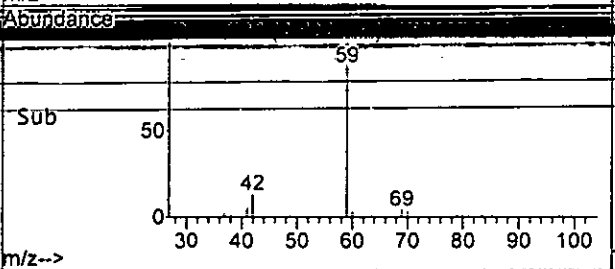
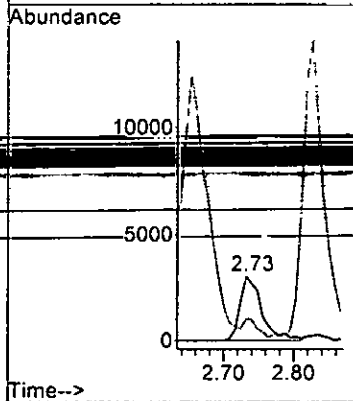
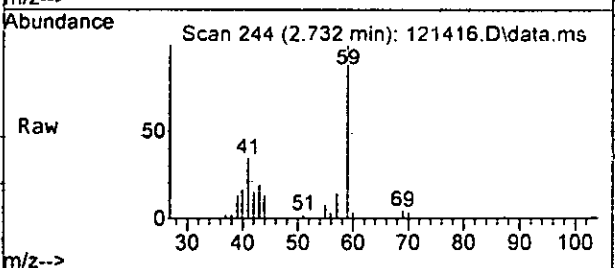
Ion	Ratio	Lower	Upper
84	100		
86	99.3	30.4	90.4#
49	162.3	127.9	187.9





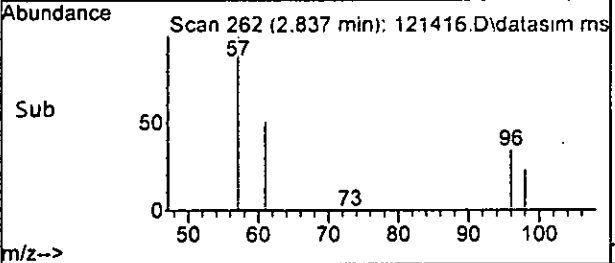
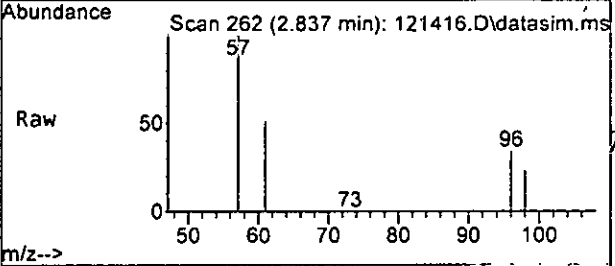
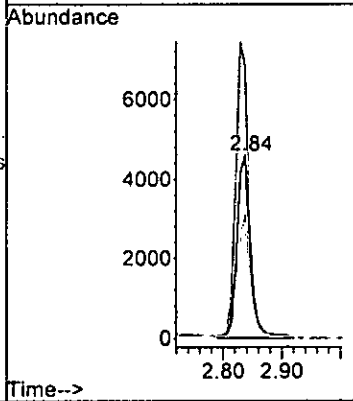
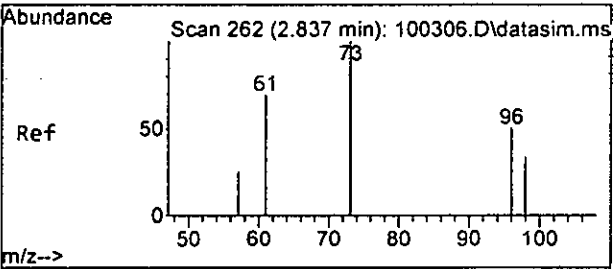
#15  
 t-Butyl alcohol (TBA)  
 Concen: 29.855 ppb  
 RT: 2.73 min Scan# 244  
 Delta R.T. 0.000 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

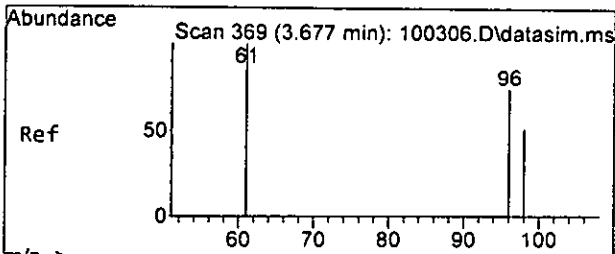
Tgt Ion: 59 Resp: 6547  
 Ion Ratio Lower Upper  
 59 100  
 41 0.0 0.0 50.9



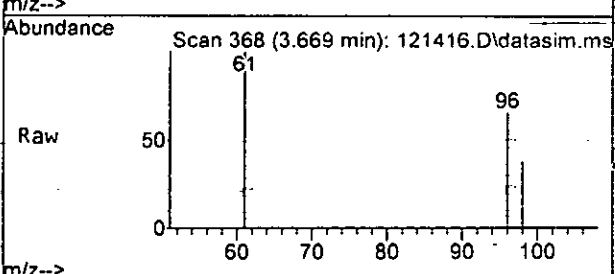
#17  
 trans-1,2-Dichloroethene  
 Concen: 5.659 ppb  
 RT: 2.84 min Scan# 262  
 Delta R.T. 0.015 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion: 96 Resp: 7316  
 Ion Ratio Lower Upper  
 96 100  
 61 148.2 141.8 201.8  
 98 67.4 31.0 91.0

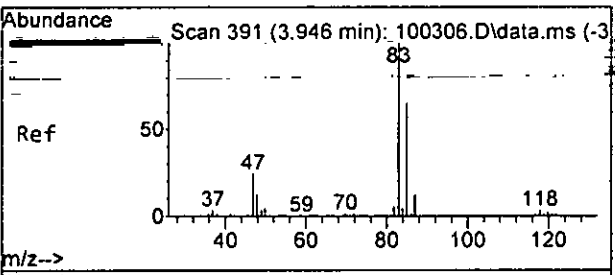
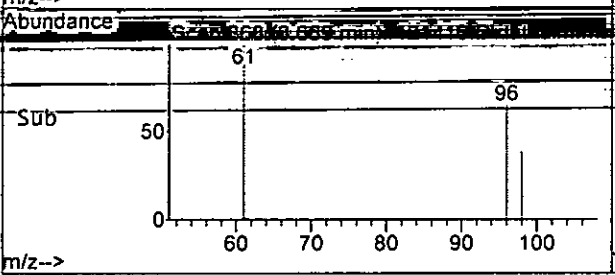
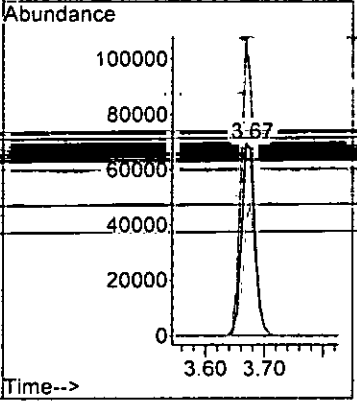




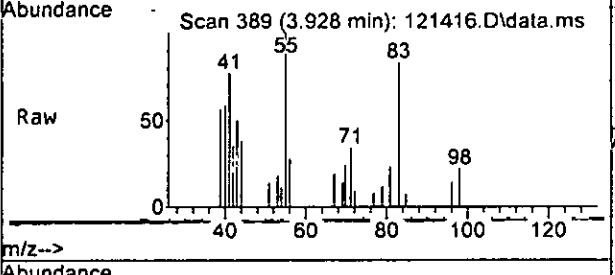
#22  
 cis-1,2-Dichloroethene  
 Concen: 79.838 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. -0.000 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am



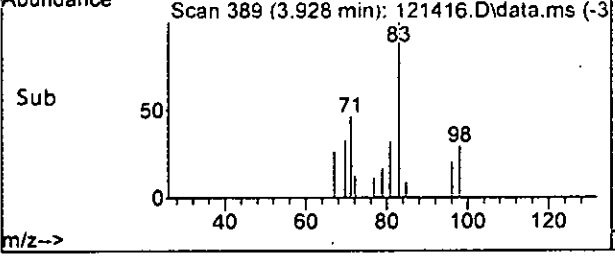
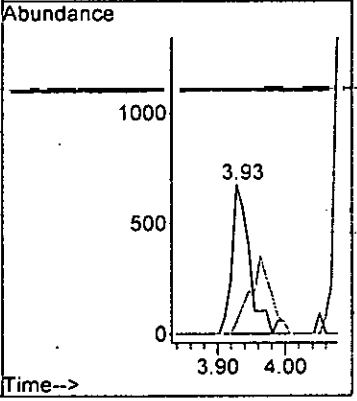
Tgt Ion: 96 Resp: 108570  
 Ion Ratio: Lower Upper  
 96 100  
 61 154.1 132.4 192.4  
 98 58.9 29.7 89.7

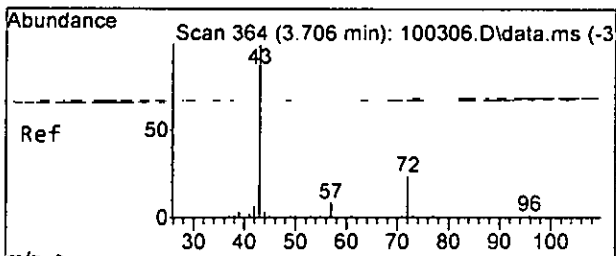


#23  
 Chloroform  
 Concen: 0.551 ppb  
 RT: 3.93 min Scan# 389  
 Delta R.T. -0.009 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am



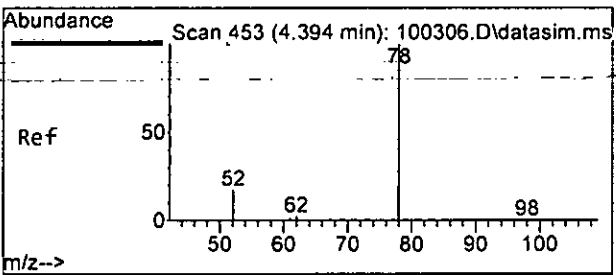
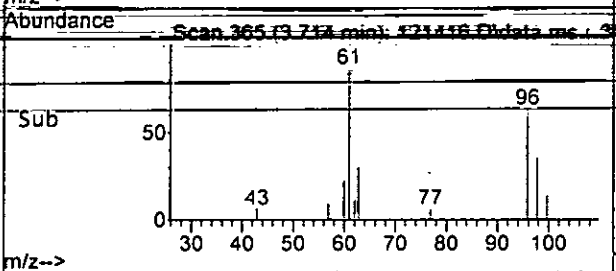
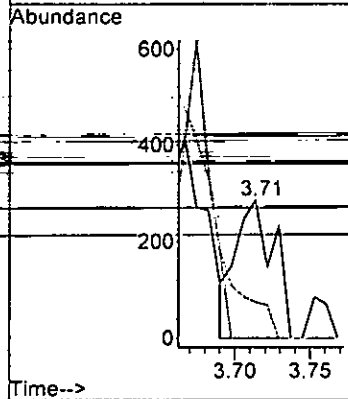
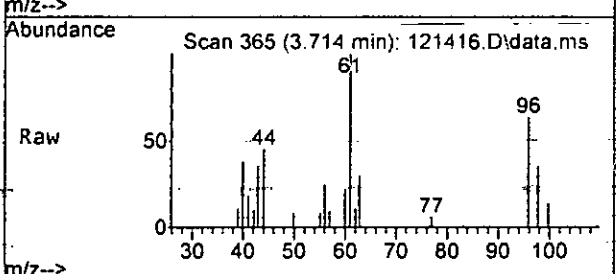
Tgt Ion: 83 Resp: 1248  
 Ion Ratio: Lower Upper  
 83 100  
 85 8.1 31.3 91.3#





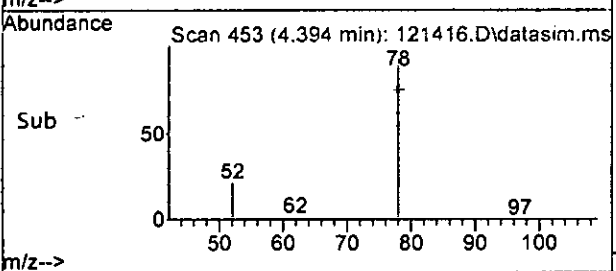
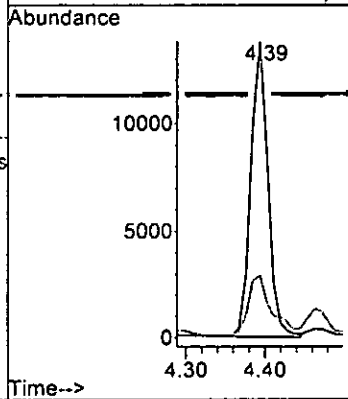
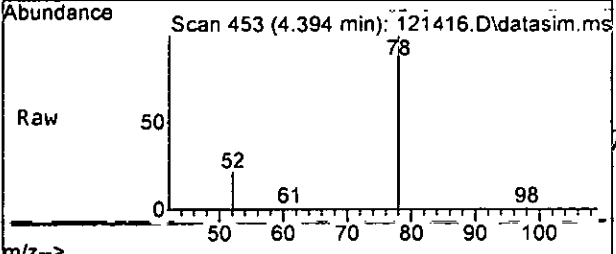
#24  
 2-Butanone (MEK)  
 Concen: 0.575 ppb  
 RT: 3.71 min Scan# 365  
 Delta R.T. 0.016 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

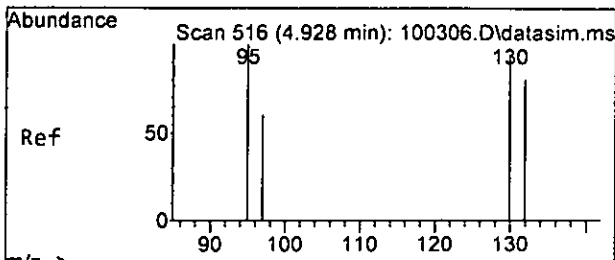
Tgt Ion	Resp	Lower	Upper
43	100	0.0	49.5
72	26.3	0.0	27.5
57	0.0	0.0	0.0



#31  
 Benzene  
 Concen: 4.366 ppb  
 RT: 4.39 min Scan# 453  
 Delta R.T. 0.009 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion	Resp	Lower	Upper
78	100	0.0	49.9
52	20.5	0.0	0.0

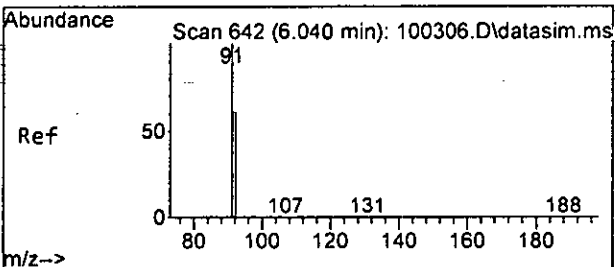
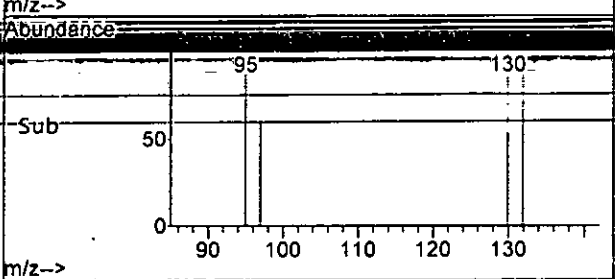
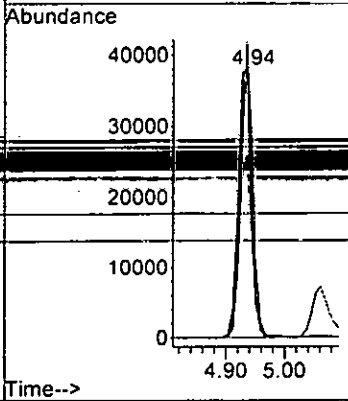
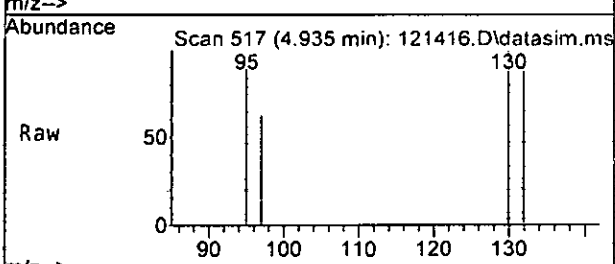




#32  
 Trichloroethene  
 Concen: 38.723 ppb  
 RT: 4.94 min Scan# 517  
 Delta R.T. 0.007 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion: 95 Resp: 58028

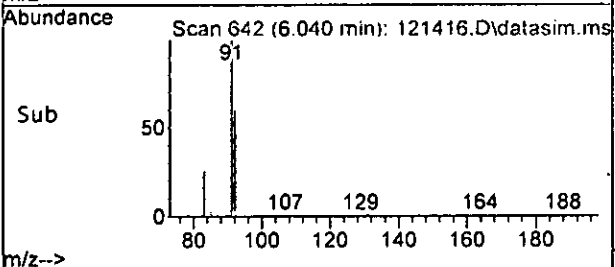
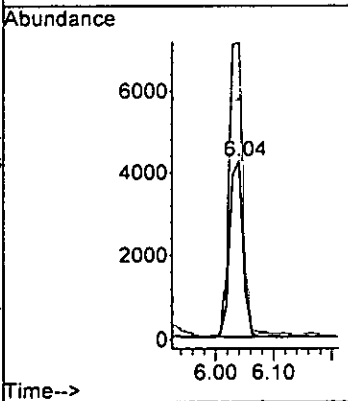
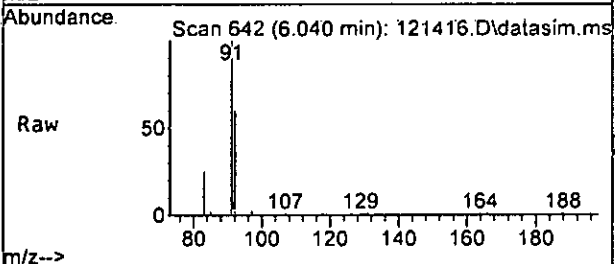
Ion	Ratio	Lower	Upper
95	100		
97	68.4	30.5	90.5
130	110.9	60.4	120.4
132	108.8	48.0	108.0#

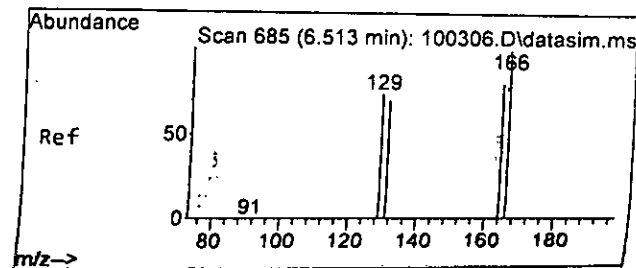


#40  
 Toluene  
 Concen: 2.096 ppb  
 RT: 6.04 min Scan# 642  
 Delta R.T. 0.011 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion: 92 Resp: 6687

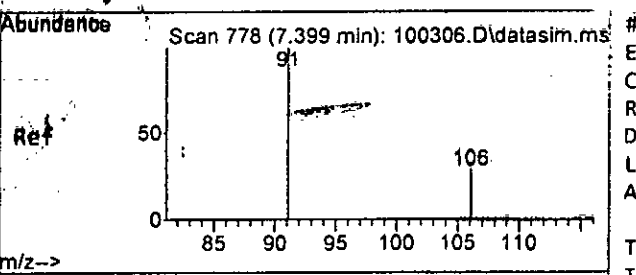
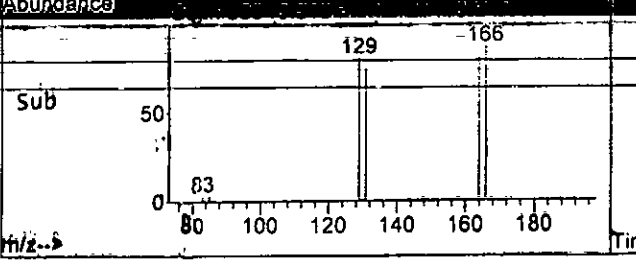
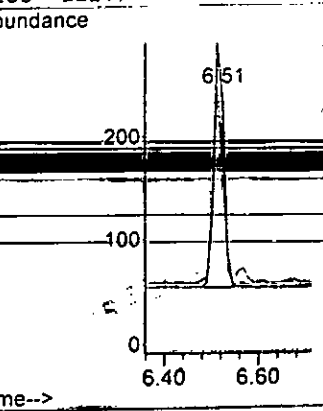
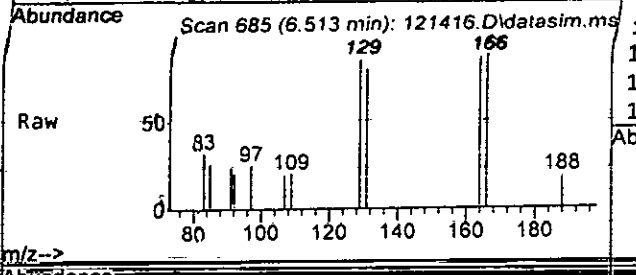
Ion	Ratio	Lower	Upper
92	100		
91	167.4	135.6	195.6





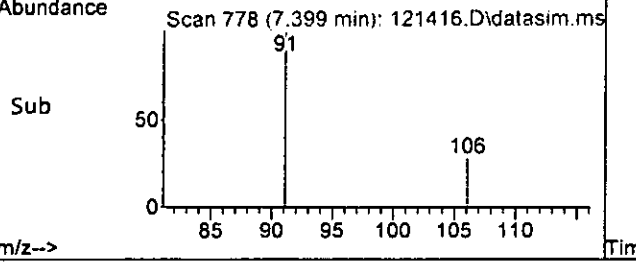
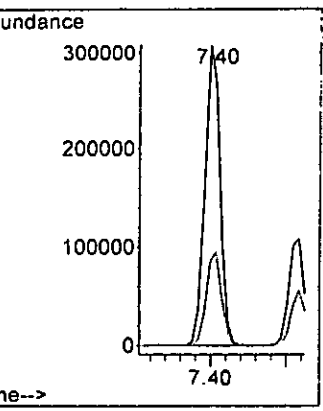
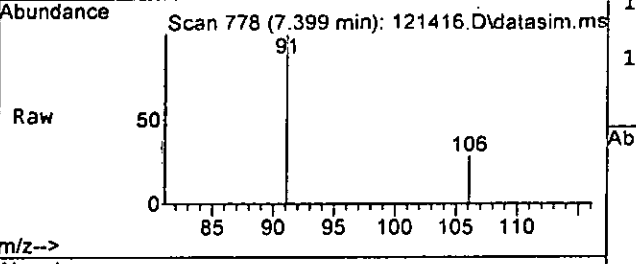
#45  
 Tetrachloroethene  
 Concen: 0.207 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. -0.000 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

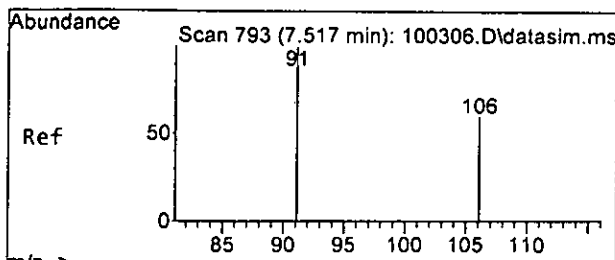
Tgt Ion	Resp	Lower	Upper
164	100		
129	97.9	62.6	122.6
131	91.2	58.6	118.6
166	122.7	94.4	154.4



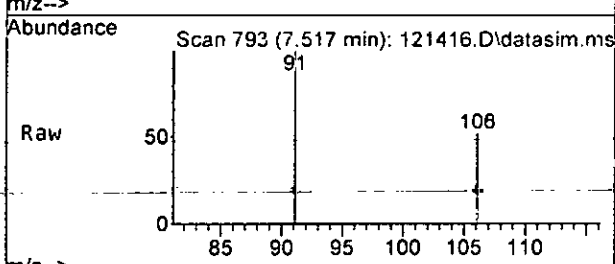
#49  
 Ethylbenzene  
 Concen: 71.189 ppb  
 RT: 7.40 min Scan# 778  
 Delta R.T. 0.000 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion	Resp	Lower	Upper
91	100		
106	27.5	0.0	58.3

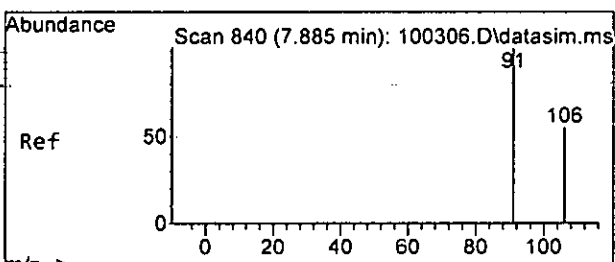
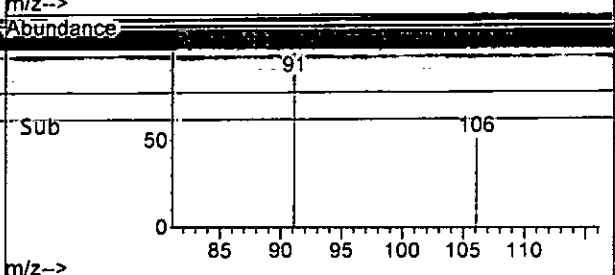
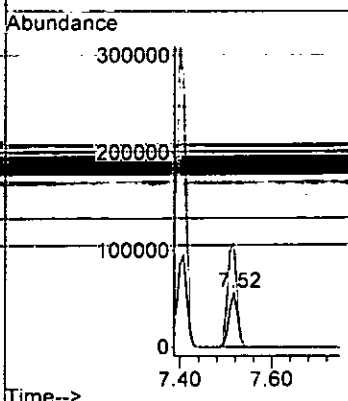




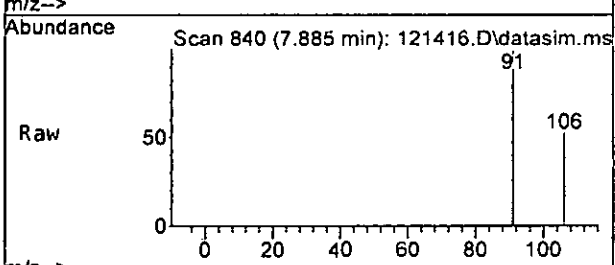
#51  
 m,p-Xylene  
 Concen: 32.767 ppb  
 RT: 7.52 min Scan# 793  
 Delta R.T. 0.008 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am



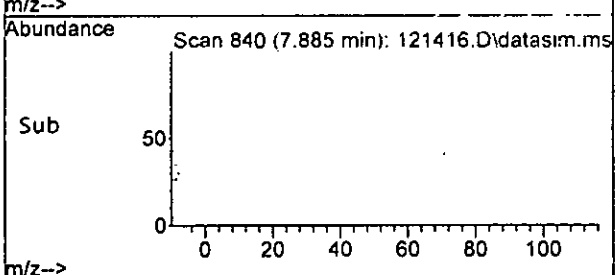
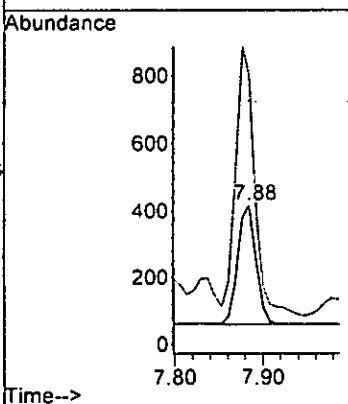
Tgt Ion:106 Resp: 74034  
 Ion Ratio Lower Upper  
 106 100  
 91 191.1 147.7 207.7

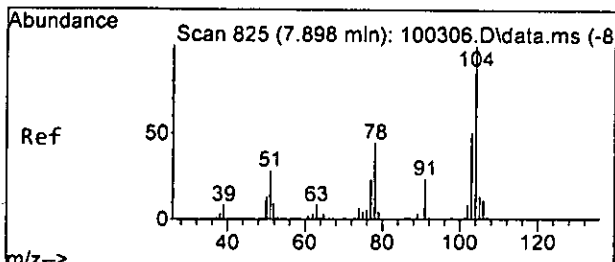


#52  
 o-Xylene  
 Concen: 0.231 ppb  
 RT: 7.88 min Scan# 840  
 Delta R.T. -0.000 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am



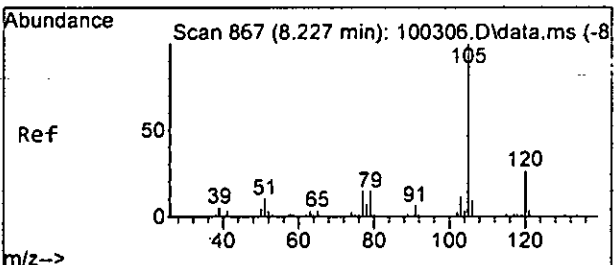
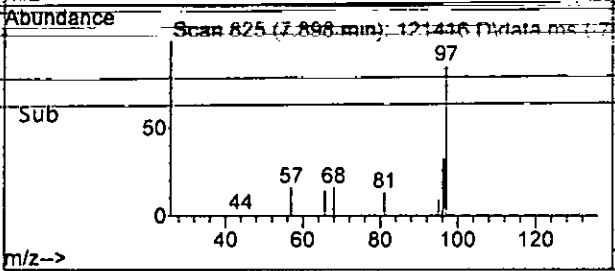
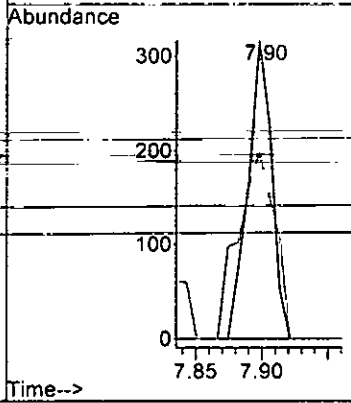
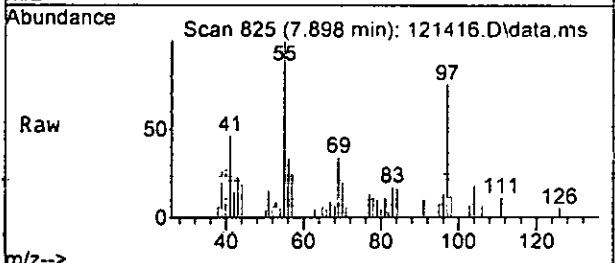
Tgt Ion:106 Resp: 511  
 Ion Ratio Lower Upper  
 106 100  
 91 198.6 160.3 220.3





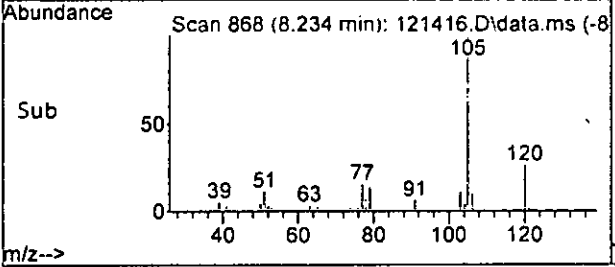
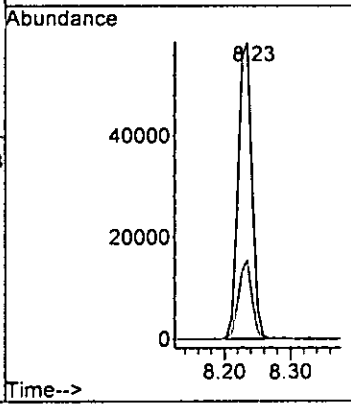
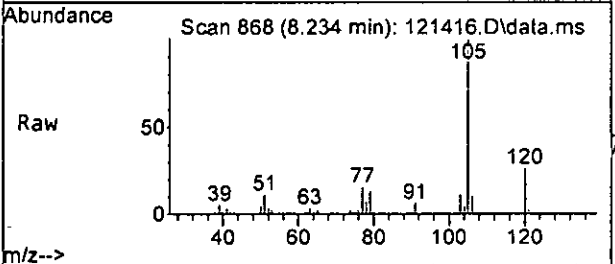
#53  
 Styrene  
 Concen: 0.108 ppb  
 RT: 7.90 min Scan# 825  
 Delta R.T. -0.000 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion: 104 Resp: 392  
 Ion Ratio Lower Upper  
 104 100  
 78 63.0 13.9 73.9

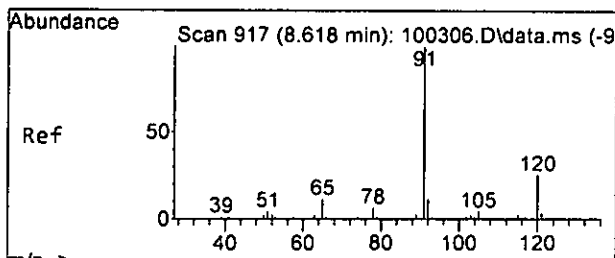


#54  
 Isopropylbenzene  
 Concen: 14.390 ppb  
 RT: 8.23 min Scan# 868  
 Delta R.T. 0.007 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion: 105 Resp: 83723  
 Ion Ratio Lower Upper  
 105 100  
 120 26.4 0.0 56.7

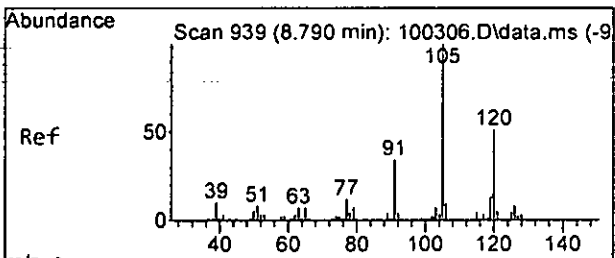
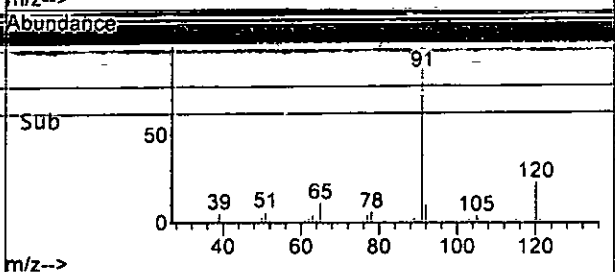
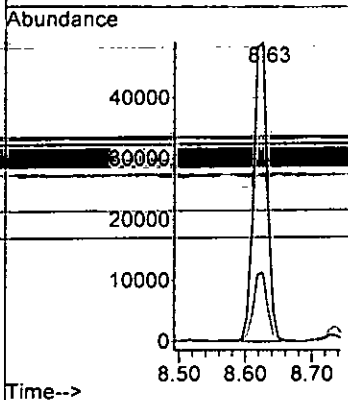
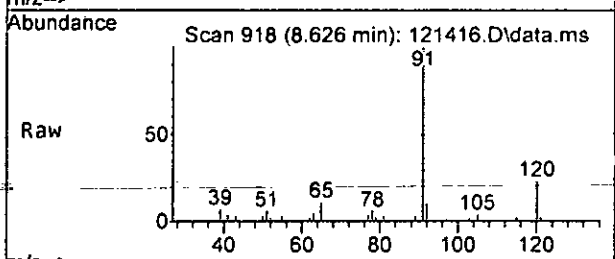






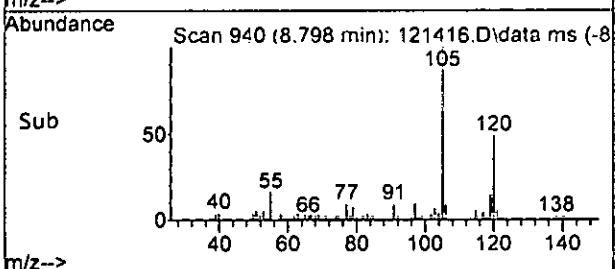
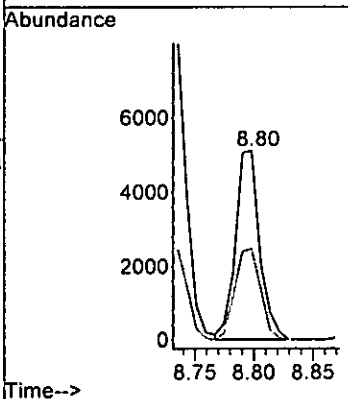
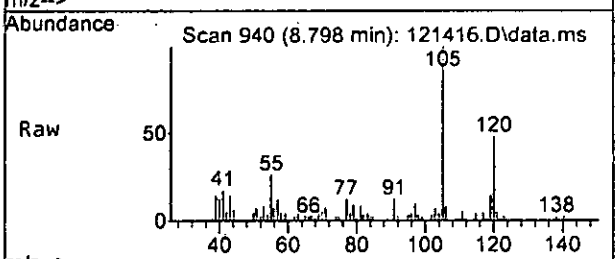
#58  
 n-Propylbenzene  
 Concen: 10.394 ppb  
 RT: 8.63 min Scan# 918  
 Delta R.T. -0.000 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

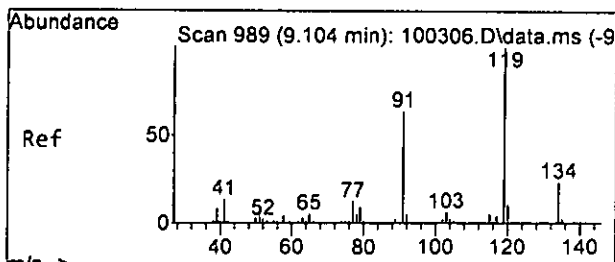
Tgt Ion: 91 Resp: 70869  
 Ion Ratio Lower Upper  
 91 100  
 120 23.3 0.0 51.7



#60  
 1,3,5-Trimethylbenzene  
 Concen: 1.430 ppb  
 RT: 8.80 min Scan# 940  
 Delta R.T. 0.008 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

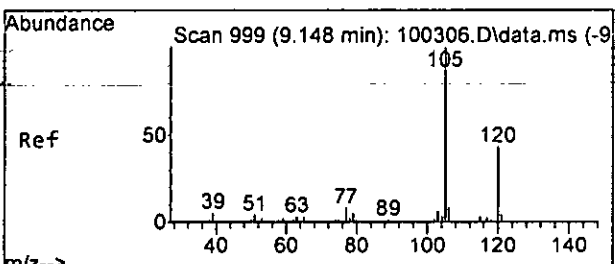
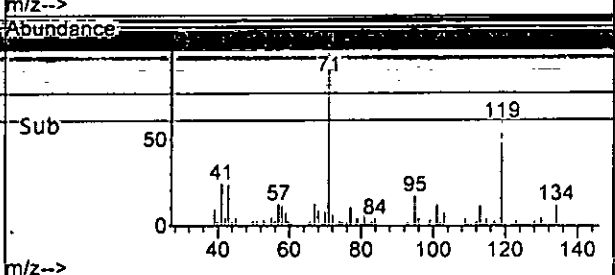
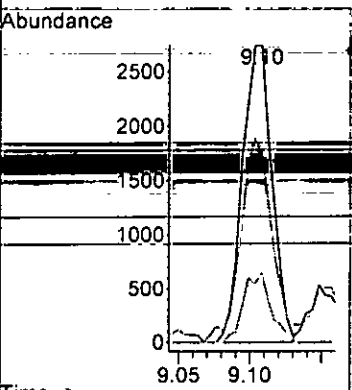
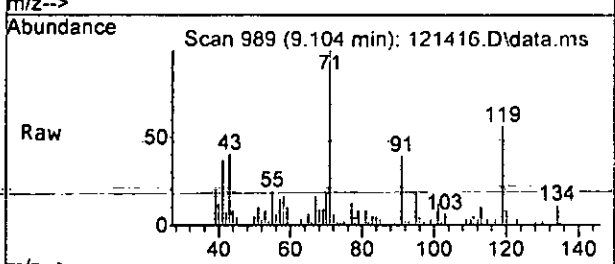
Tgt Ion: 105 Resp: 7257  
 Ion Ratio Lower Upper  
 105 100  
 120 48.4 16.5 76.5





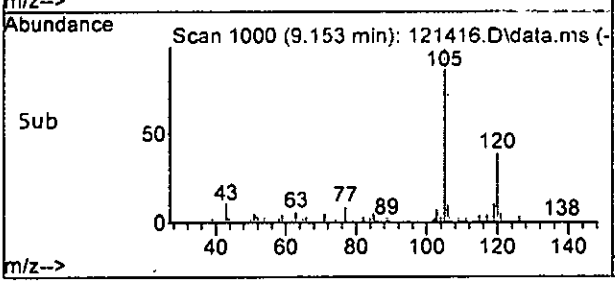
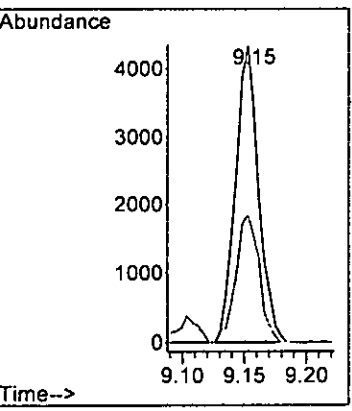
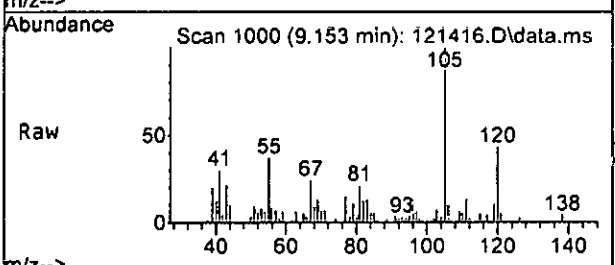
#65  
 tert-Butylbenzene  
 Concen: 0.883 ppb  
 RT: 9.10 min Scan# 989  
 Delta R.T. -0.000 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

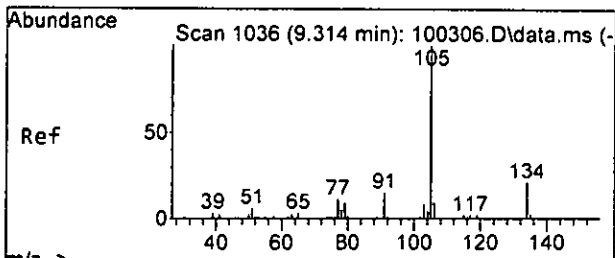
Tgt Ion	Resp	Lower	Upper
119	3926	100	100
91	66.4	36.1	96.1
134	19.8	0.0	54.0



#66  
 1,2,4-Trimethylbenzene  
 Concen: 1.084 ppb  
 RT: 9.15 min Scan# 1000  
 Delta R.T. -0.000 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

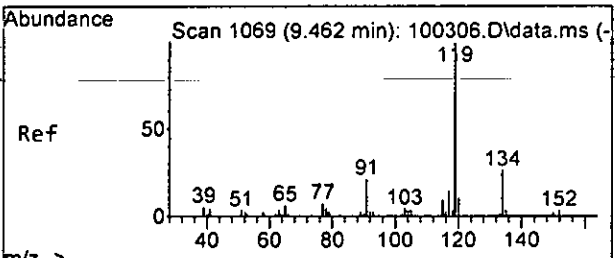
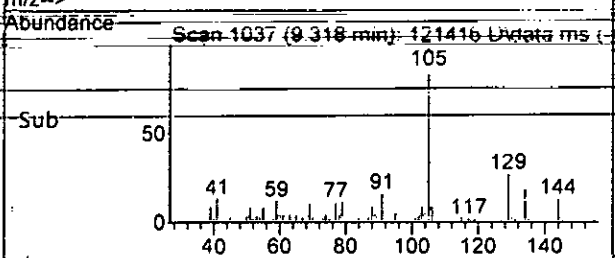
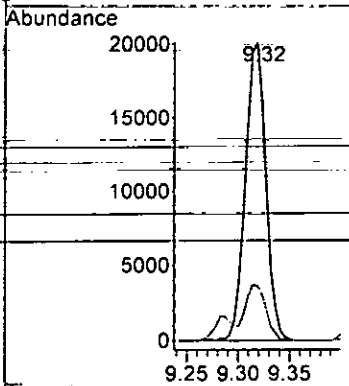
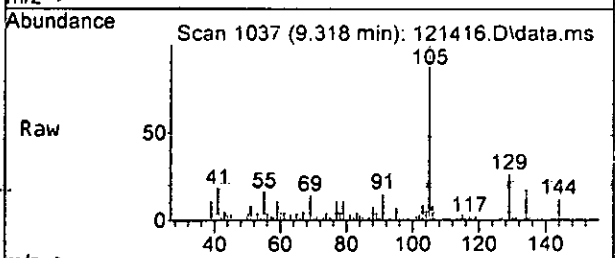
Tgt Ion	Resp	Lower	Upper
105	5576	100	100
120	42.6	13.6	73.6





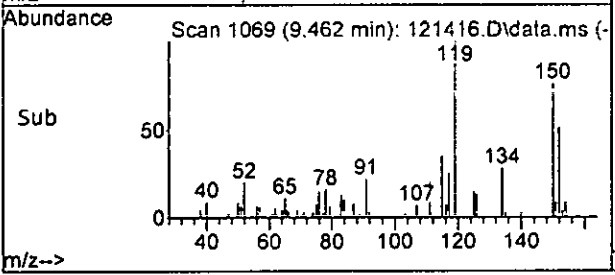
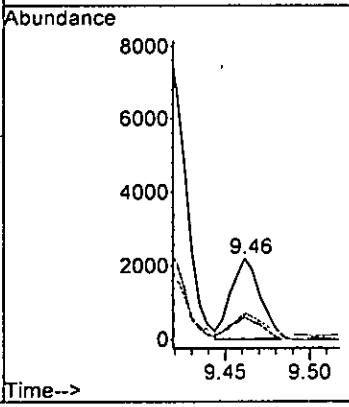
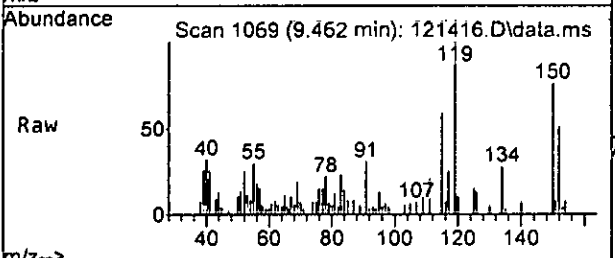
#67  
 sec-Butylbenzene  
 Concen: 4.259 ppb  
 RT: 9.32 min Scan# 1037  
 Delta R.T. 0.004 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

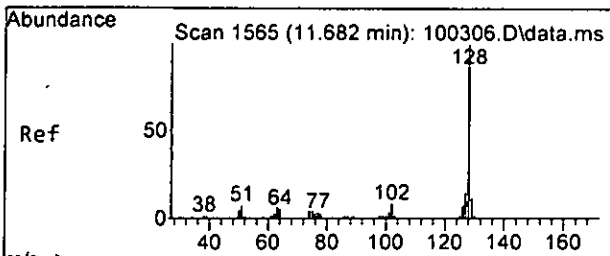
Tgt Ion: 105 Resp: 27464  
 Ion Ratio Lower Upper  
 105 100  
 134 18.2 0.0 49.2



#68  
 p-Isopropyltoluene  
 Concen: 0.482 ppb  
 RT: 9.46 min Scan# 1069  
 Delta R.T. -0.000 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion: 119 Resp: 2677  
 Ion Ratio Lower Upper  
 119 100  
 134 27.8 0.0 54.6  
 91 26.4 0.0 53.2

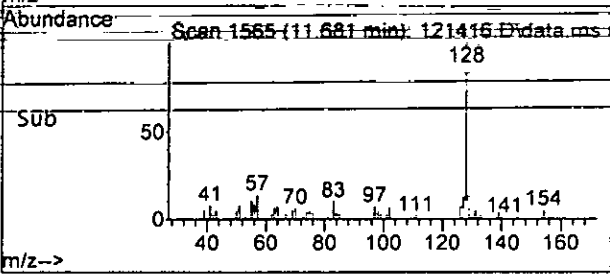
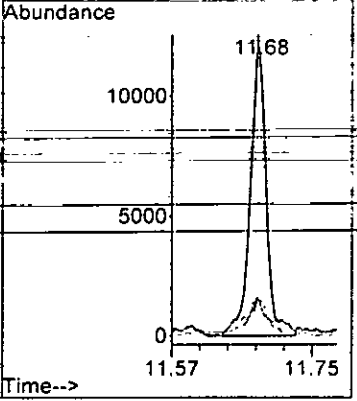
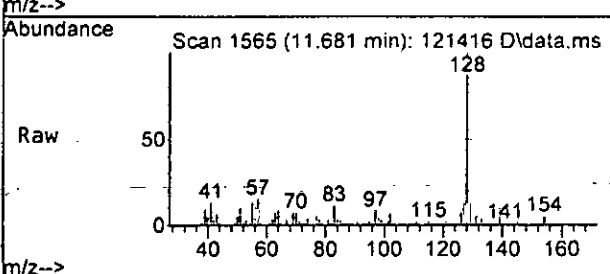




#75  
 Naphthalene  
 Concen: 3.262 ppb  
 RT: 11.68 min Scan# 1565  
 Delta R.T. 0.000 min  
 Lab File: 121416.D  
 Acq: 14 Dec 2022 10:37 am

Tgt Ion: 128 Resp: 17606

Ion	Ratio	Lower	Upper
128	100		
129	11.9	0.0	41.9
127	11.2	0.0	43.8



Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121416.D  
 Acq On : 14 Dec 2022 10:37 am  
 Operator : LM  
 Sample : 212083-06 rr  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:37 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound R.T. QIon Response Conc Units Dev(Min)

~~Internal Standards~~

1) Fluorobenzene	4.63	96	47485	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	37202	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	20780	10.000	ppb	0.00

System Monitoring Compounds

3) Dibromofluoromethane	4.08	113	12769	10.192	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	101.90%		
30) 1,2-Dichloroethane-d4	4.36	102	2835	9.896	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery =	99.00%		
35) Toluene-d8	5.98	98	47379	10.392	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery =	103.90%		
57) 4-Bromofluorobenzene	8.38	95	16902	9.634	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery =	96.30%		

Target Compounds

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
2) Ethanol	0.00		0		N.D.		
4) Dichlorodifluoromethane	0.00		0		N.D.		
5) Chloromethane	1.23	50	1485		N.D.		
6] Vinyl chloride	1.30	62	6842	1.969	ppb		100
7) Bromomethane	0.00		0		N.D.	d	
8] Chloroethane	1.61	64	1139m	0.713	ppb		
9) Trichlorofluoromethane	0.00		0		N.D.		
10] 2-Propanol	0.00		0		N.D.		
11) Acetone	2.28	58	632	3.575	ppb	#	74
12] 1,1-Dichloroethene	2.20	96	199	0.174	ppb		98
13) Hexane	3.05	57	14742	7.158	ppb		97
14) Methylene chloride	2.61	84	3543	2.773	ppb	#	83
15) t-Butyl alcohol (TBA)	2.73	59	6547	29.855	ppb		55
16) Methyl t-butyl ether (...)	0.00		0		N.D.		
17] trans-1,2-Dichloroethene	2.84	96	7316	5.659	ppb		85
18) Diisopropyl ether (DIPE)	0.00		0		N.D.		
19) 1,1-Dichloroethane	0.00		0		N.D.	d	
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.		
21) 2,2-Dichloropropane	0.00		0		N.D.		
22] cis-1,2-Dichloroethene	3.67	96	108570	79.838	ppb		95
23) Chloroform	3.93	83	1248	0.551	ppb	#	30
24) 2-Butanone (MEK)	3.71	43	499	0.575	ppb		54
25) t-Amyl methyl ether (T...)	0.00		0		N.D.	d	
26) 1,2-Dichloroethane (EDC)	0.00		0		N.D.	d	
27) 1,1,1-Trichloroethane	0.00		0		N.D.	d	
28) 1,1-Dichloropropene	4.13	75	89		N.D.		
29) Carbon tetrachloride	0.00		0		N.D.		
31] Benzene	4.39	78	20709	4.366	ppb		99
32] Trichloroethene	4.94	95	58028	38.723	ppb	#	77
33) 1,2-Dichloropropane	0.00		0		N.D.	d	
34) Bromodichloromethane	0.00		0		N.D.	d	
36) Dibromomethane	0.00		0		N.D.		

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121416.D  
 Acq On : 14 Dec 2022 10:37 am  
 Operator : LM  
 Sample : 212083-06 rr  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

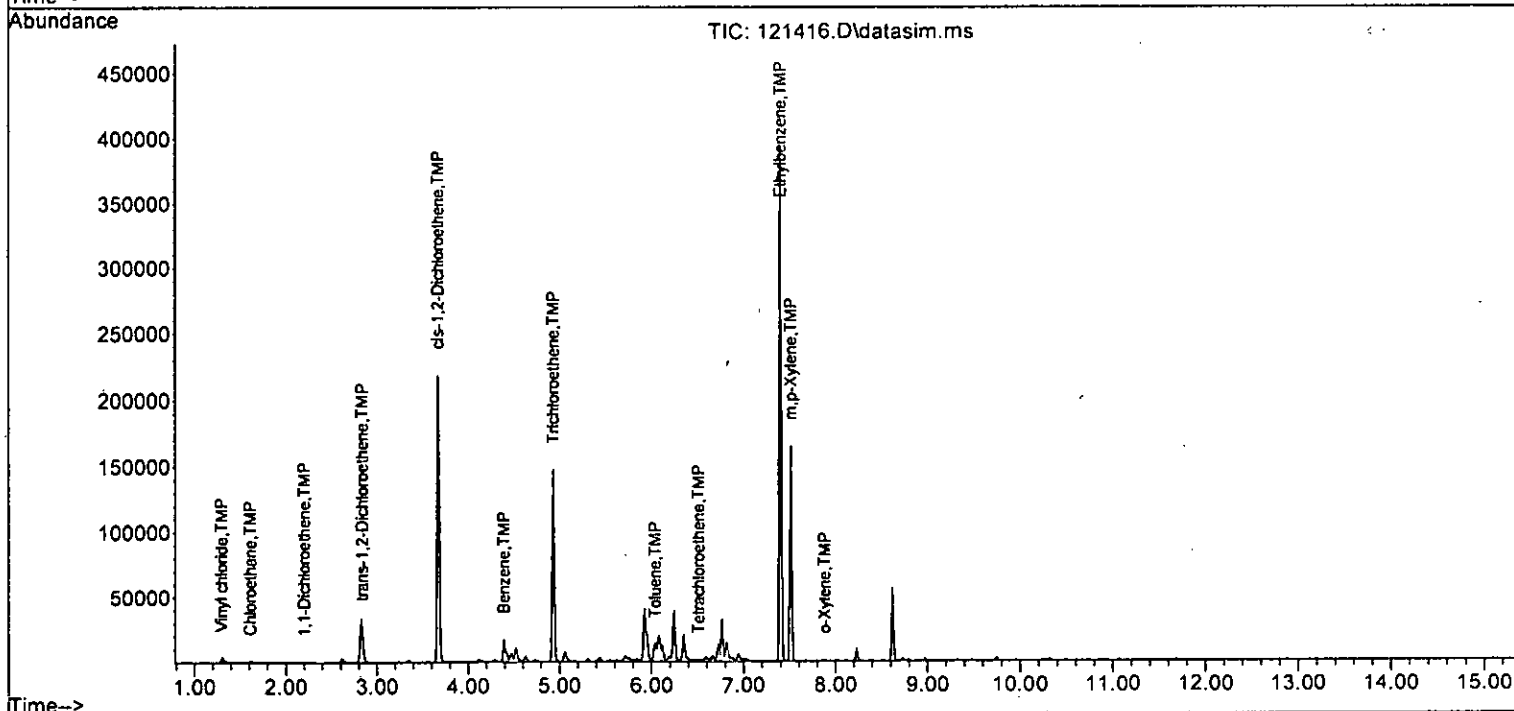
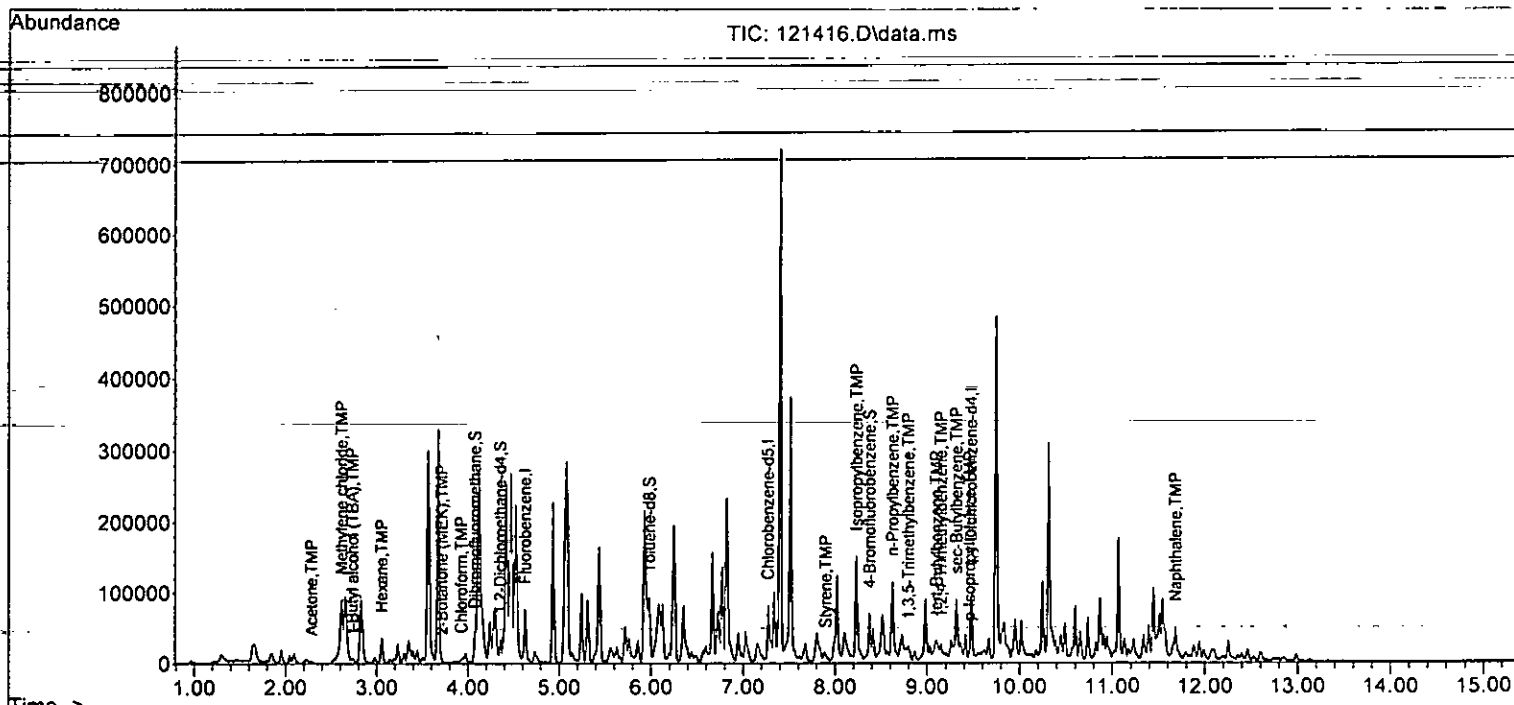
Quant Time: Dec 14 12:04:37 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<del>37) 4-Methyl-2-pentanone</del>	<del>0.00</del>		<del>0</del>	<del>N.D.</del>	<del>d</del>	
38) cis-1,3-Dichloropropene	0.00		0	N.D.		
40] Toluene	6.04	92	6687	2.096	ppb	99
41) trans-1,3-Dichloropropene	0.00		0	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.	d	
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.		
45] Tetrachloroethene	6.51	164	264	0.207	ppb	97
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	d	
48) Chlorobenzene	7.29	112	149	N.D.		
49] Ethylbenzene	7.40	91	426746	71.189	ppb	99
<del>50) 1,1,1,2-Tetrachloroethane</del>	<del>0.00</del>		<del>0</del>	<del>N.D.</del>		
51] m,p-Xylene	7.52	106	74034	32.767	ppb	90
52] o-Xylene	7.88	106	511	0.231	ppb	94
53) Styrene	7.90	104	392	0.108	ppb	70
54) Isopropylbenzene	8.23	105	83723	14.390	ppb	99
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	8.63	91	70869	10.394	ppb	97
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	8.80	105	7257	1.430	ppb	97
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	9.10	119	3926	0.883	ppb	97
66) 1,2,4-Trimethylbenzene	9.15	105	5576	1.084	ppb	99
67) sec-Butylbenzene	9.32	105	27464	4.259	ppb	98
68) p-Isopropyltoluene	9.46	119	2677	0.482	ppb	93
69) 1,3-Dichlorobenzene	9.33	146	150	N.D.		
70) 1,4-Dichlorobenzene	9.51	146	57	N.D.		
71) 1,2-Dichlorobenzene	9.87	146	69	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	11.68	128	17606	3.262	ppb	97
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121416.D  
 Acq On : 14 Dec 2022 10:37 am  
 Operator : LM  
 Sample : 212083-06 rr  
 Misc : water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

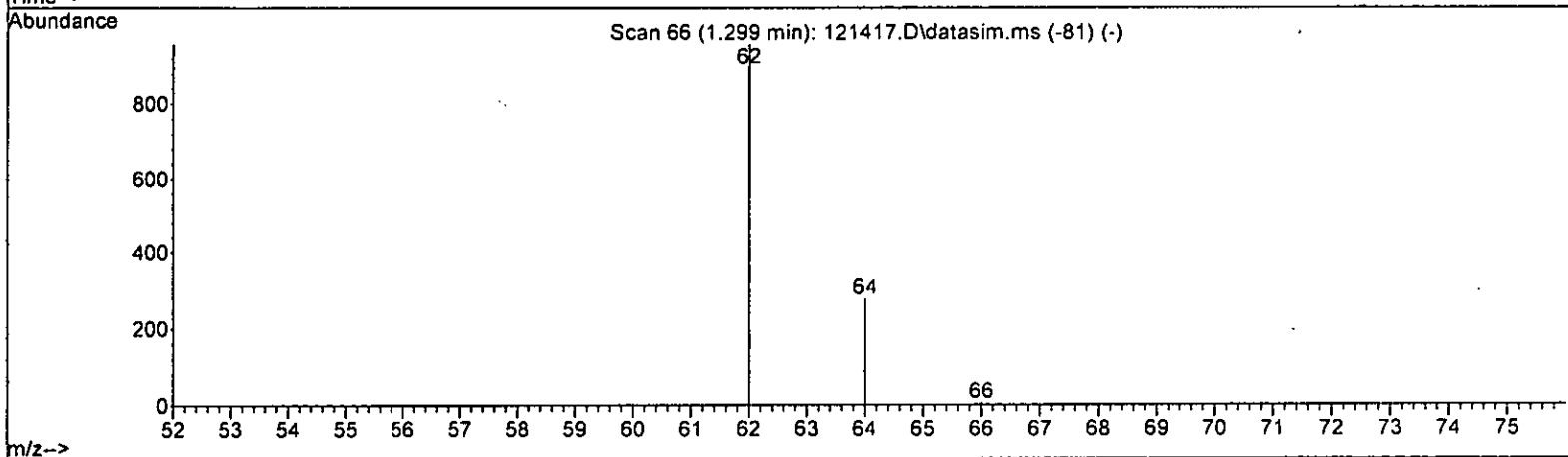
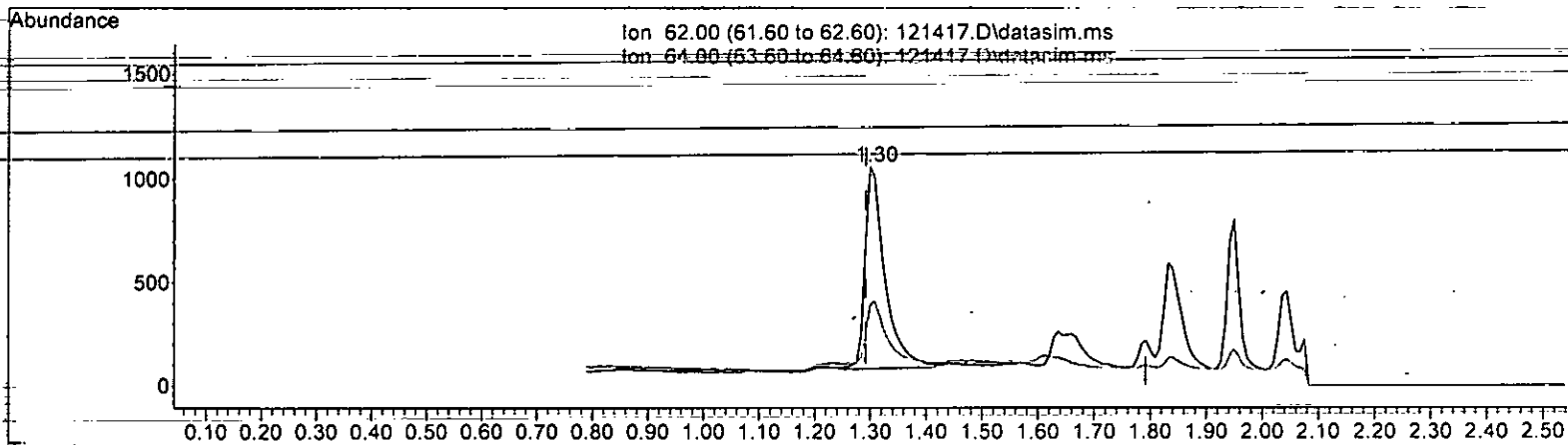
Quant Time: Dec 14 12:04:37 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr .  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121417.D\data.ms

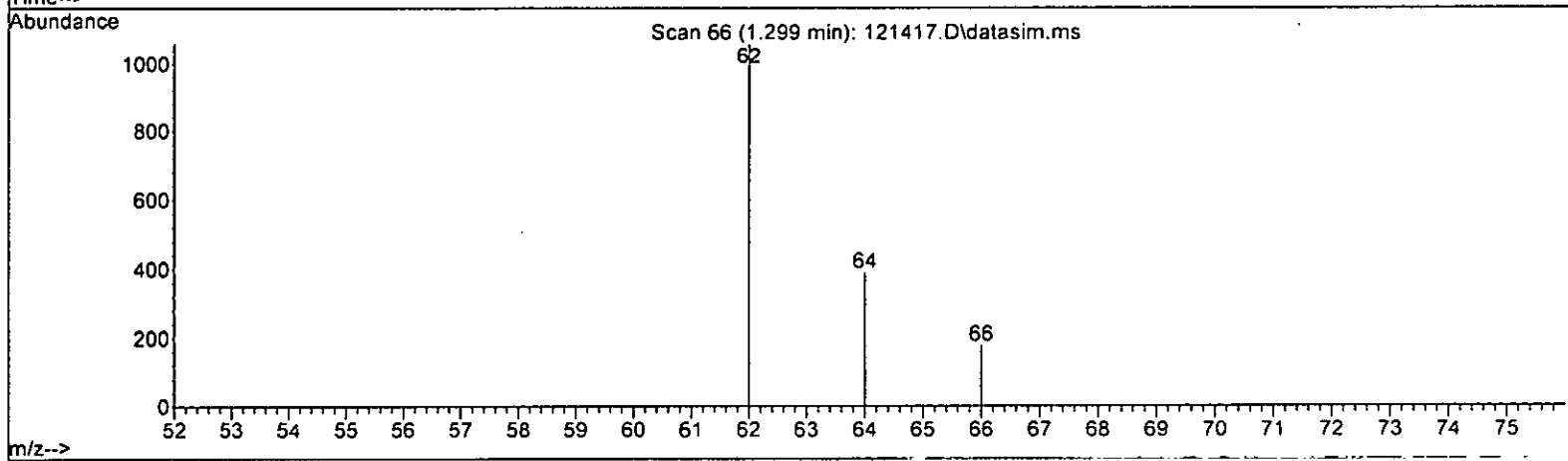
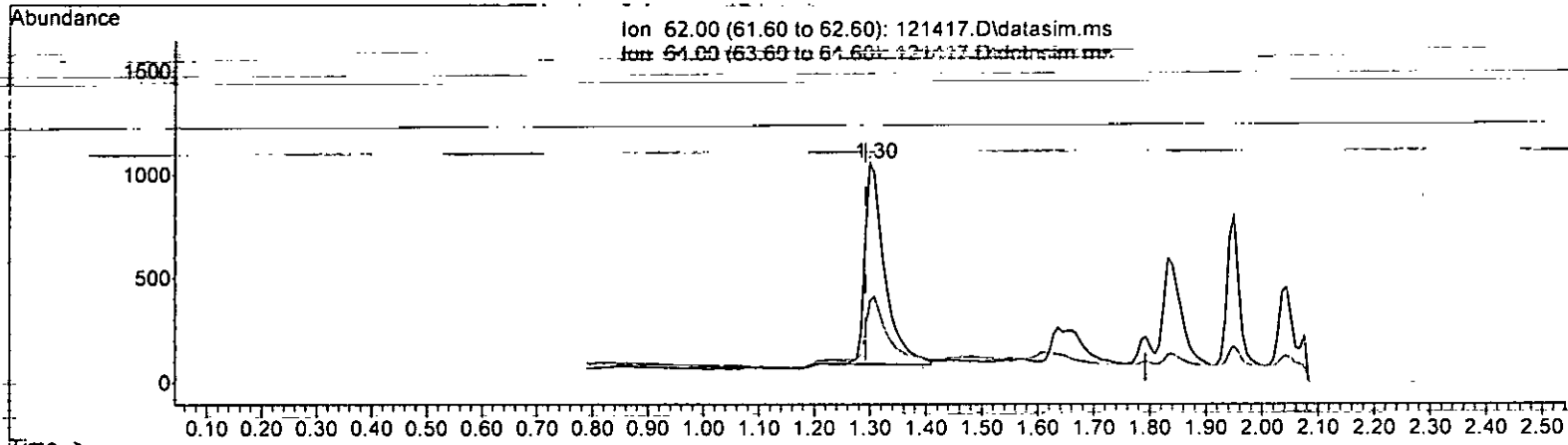
(6) Vinyl chloride (TMP)		
1.299min (+ 0.007)	0.705	ppb
response	2406	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	28.97
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M



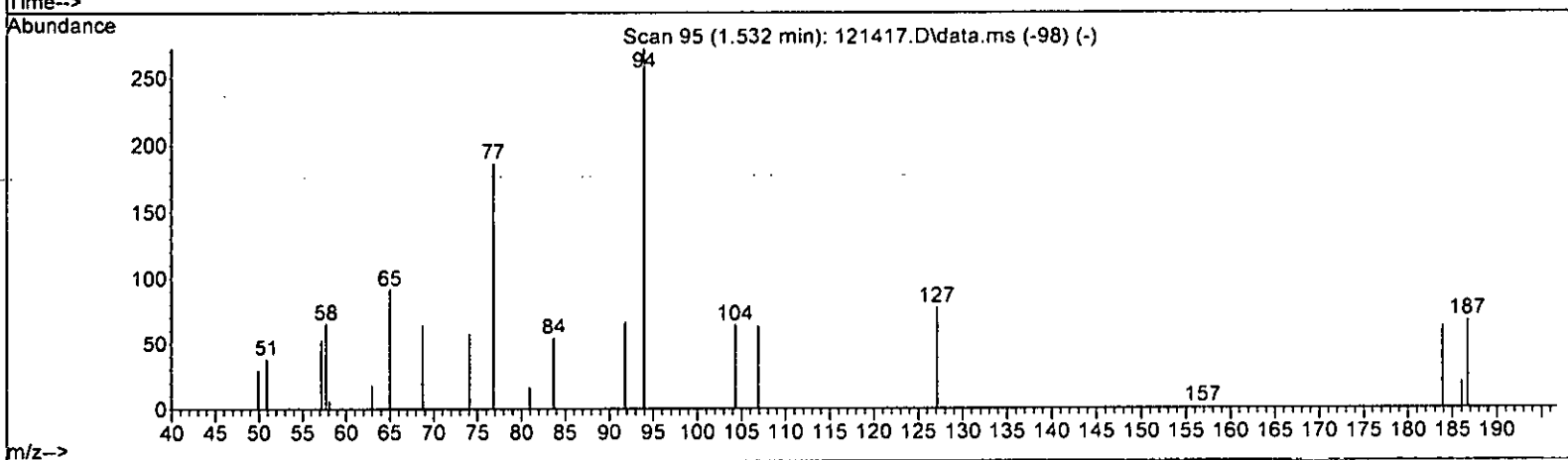
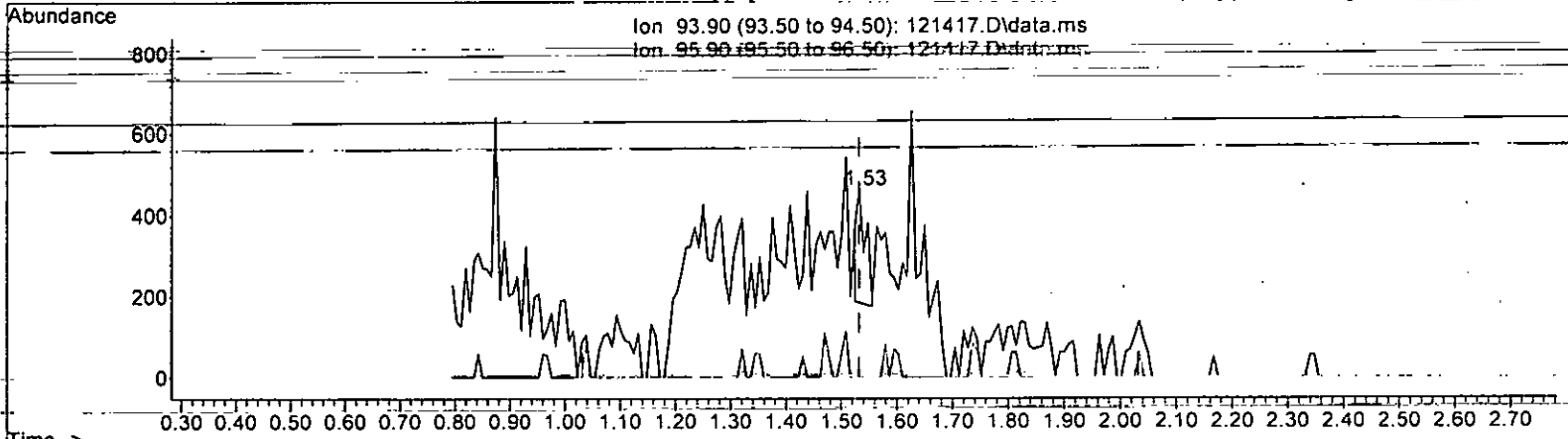
TIC: 121417.D\data.ms

(6) Vinyl chloride (TMP)			
1.299min (+ 0.007) 0.695 ppb m			
response	2373		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	36.64	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



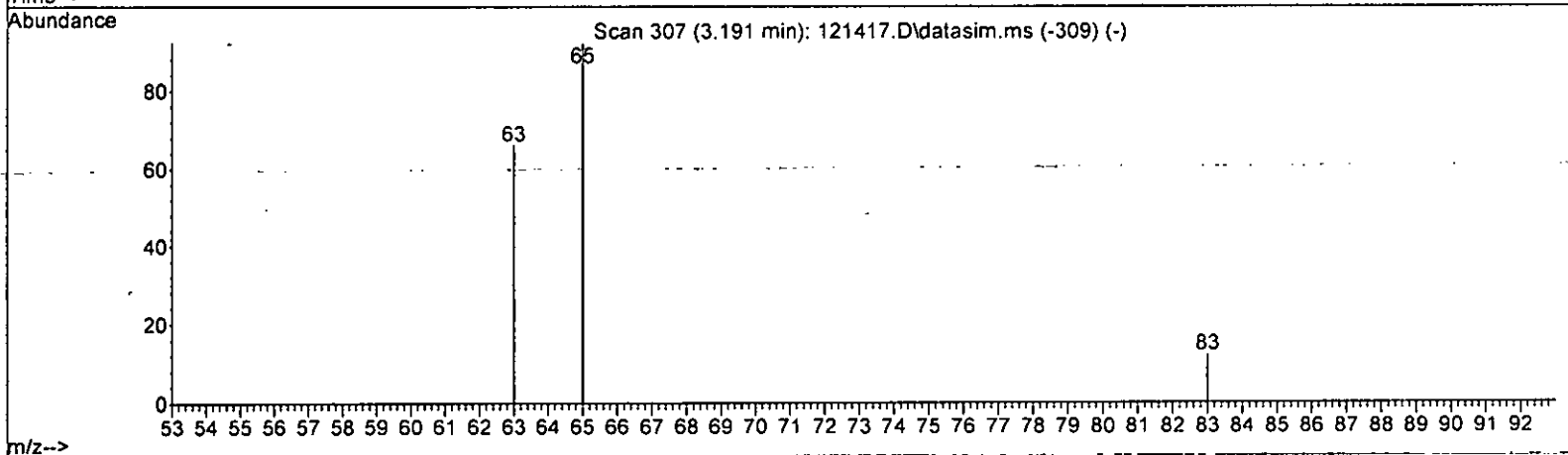
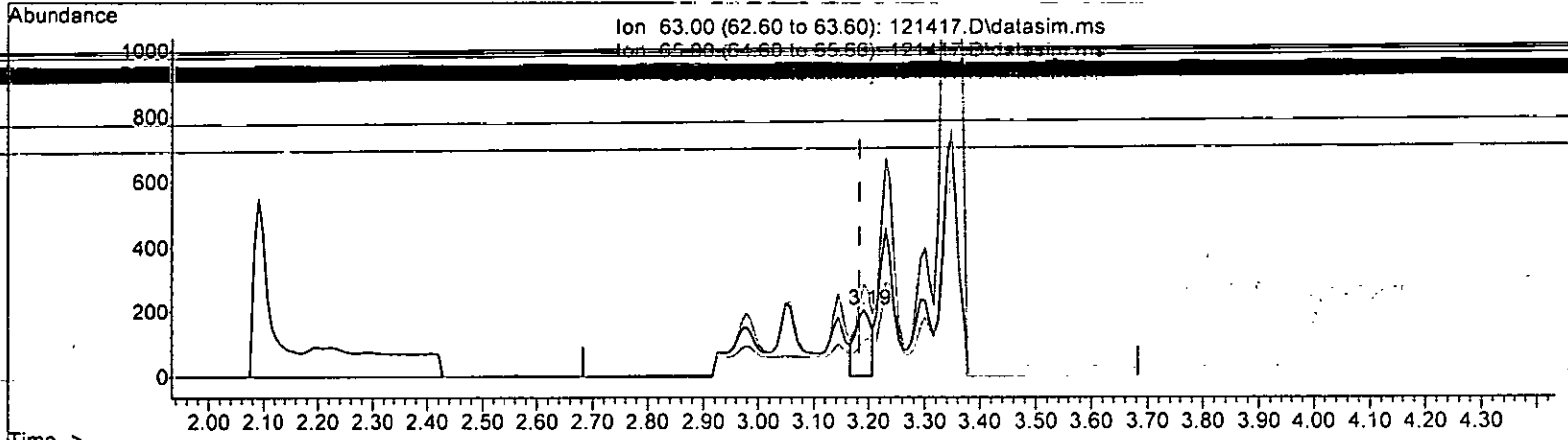
TIC: 121417.D\data.ms

(7) Bromomethane (TMP)		
Retention Time	Response	Concentration
1.532min (+ 0.000)	289	0.168 ppb
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



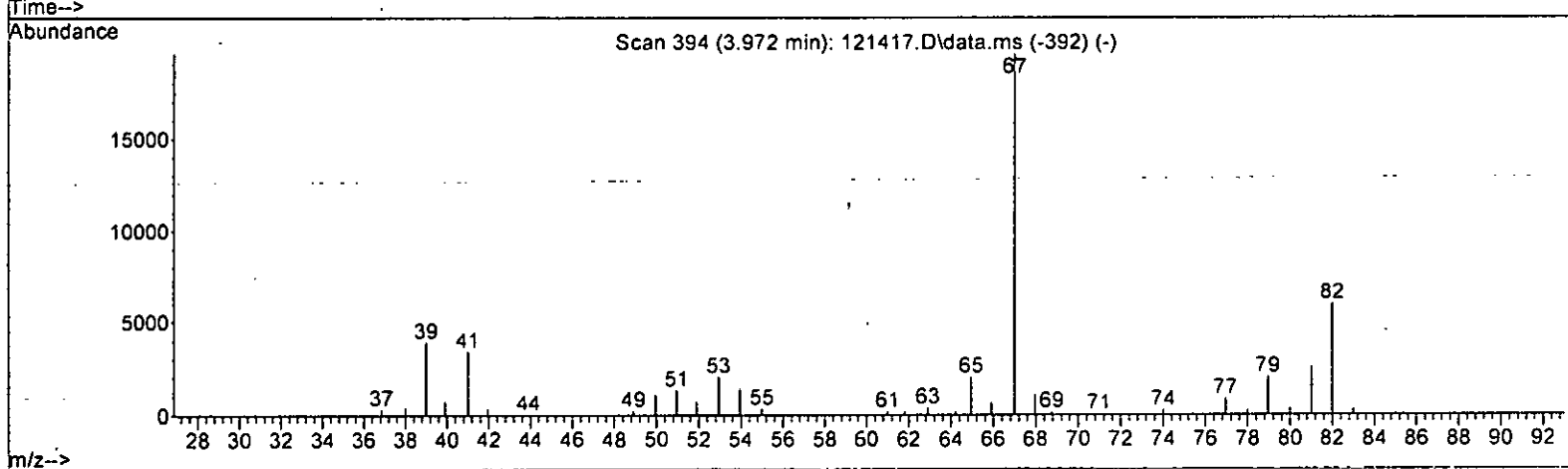
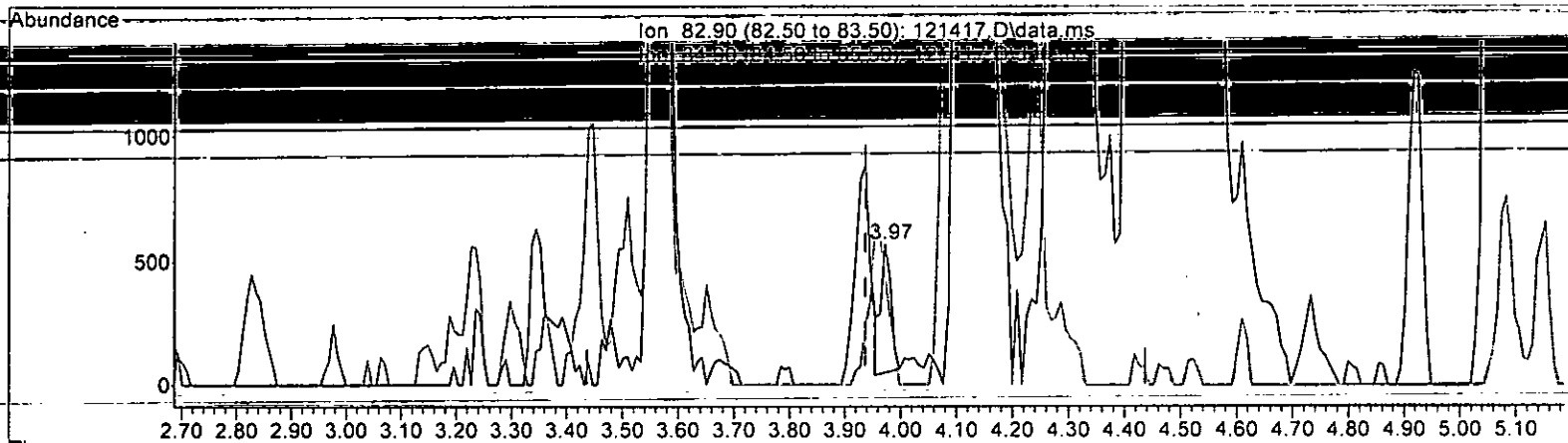
TIC: 121417.D\data.ms

(19) 1,1-Dichloroethane (TMP)		
3.191min (+ 0.008)	0.164	ppb
response	387	
Ion	Exp%	Act%
63.00	100.00	100.00
65.00	32.30	155.86#
83.00	13.70	37.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq=Meth:VM080522.M



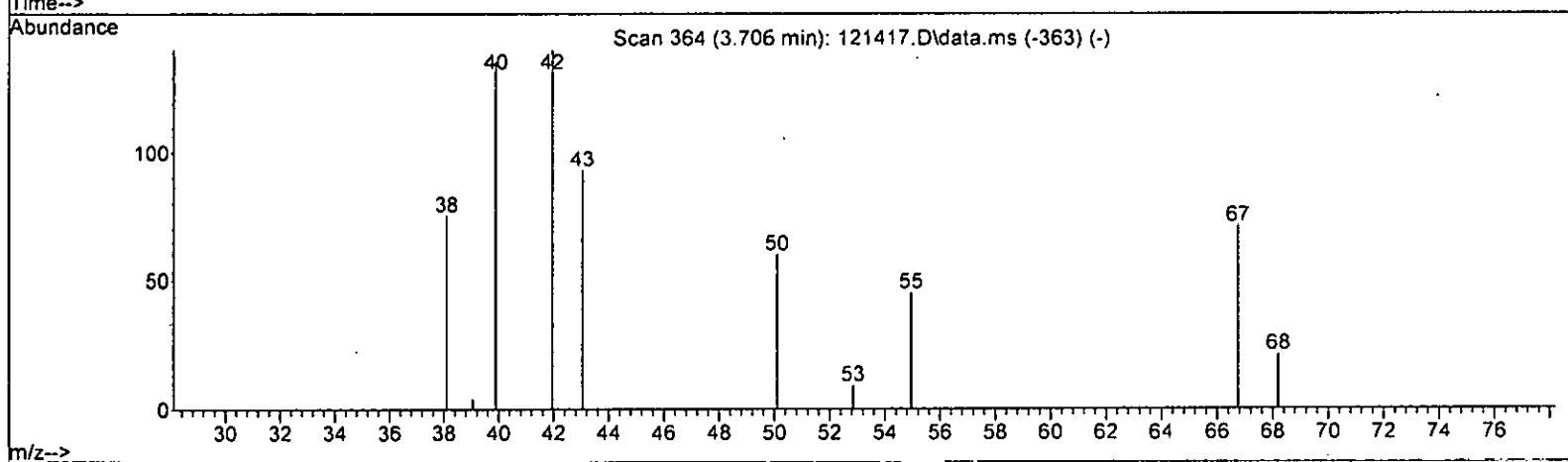
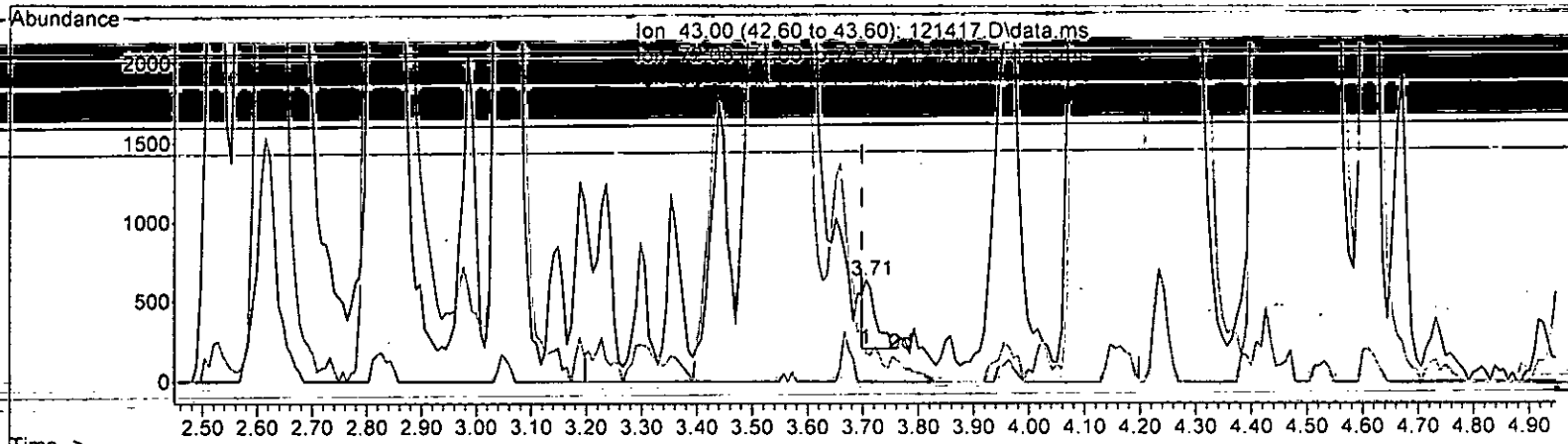
TIC: 121417.D\data.ms

(23) Chloroform (TMP)		
Retention Time	Response	Concentration
3.972min (+ 0.035)	651	0.292 ppb
Ion	Exp%	Act%
82.90	100.00	100.00
84.90	61.30	86.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcqMeth: VM080522.M



TIC: 121417.D\data.ms

(24) 2-Butanone (MEK) (TMP)

3.706min (+ 0.008) 0.721 ppb

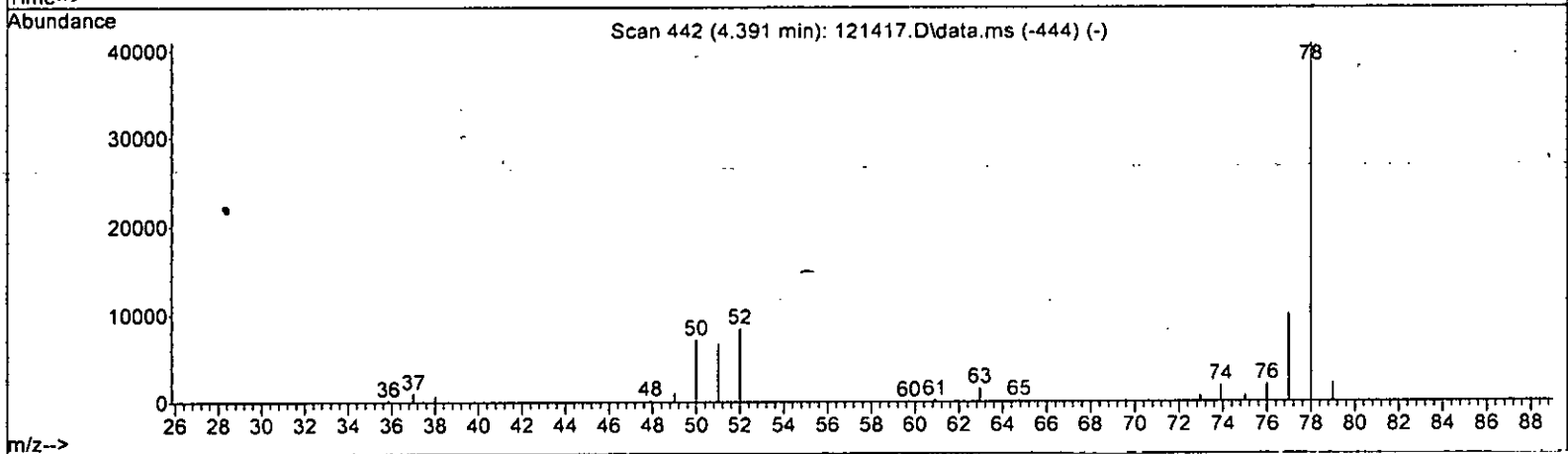
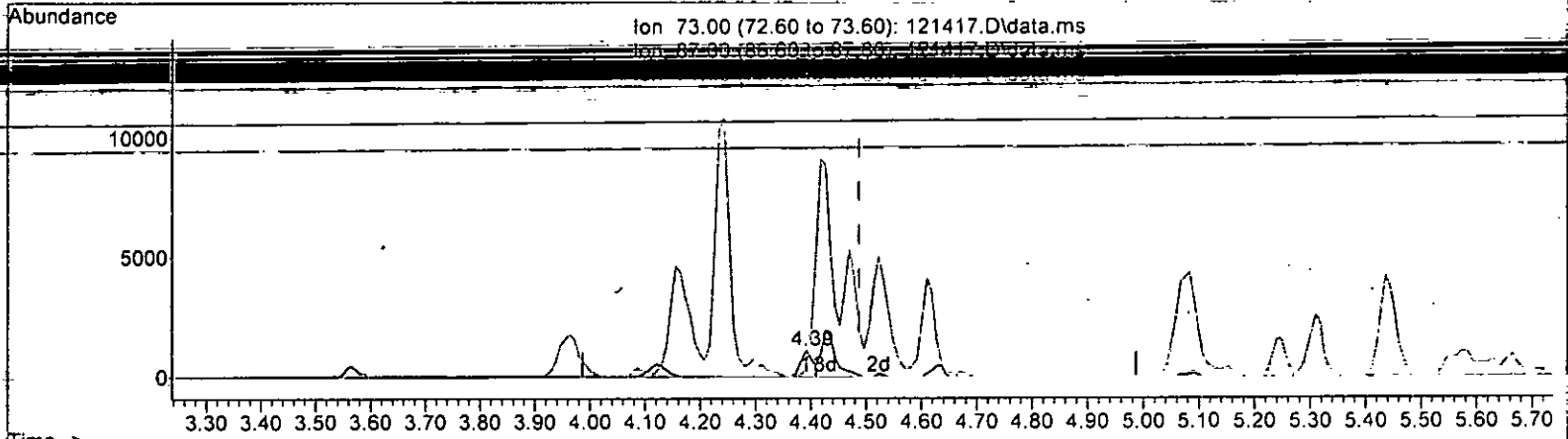
response 615

Ion	Exp%	Act%
43.00	100.00	100.00
72.00	19.50	0.00
56.90	7.50	10.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq-Meth: VM080522.M



TIC: 121417.D\data.ms

(25) t-Amyl methyl ether (TAME) (TMP)

4.391min (-0.096) 0.506 ppb

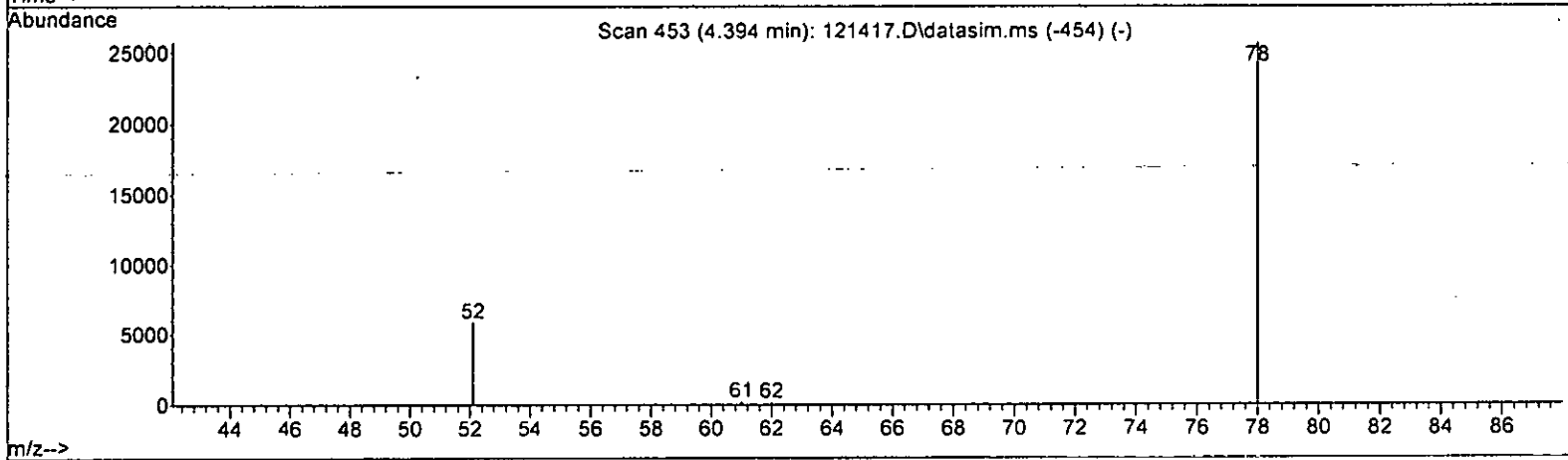
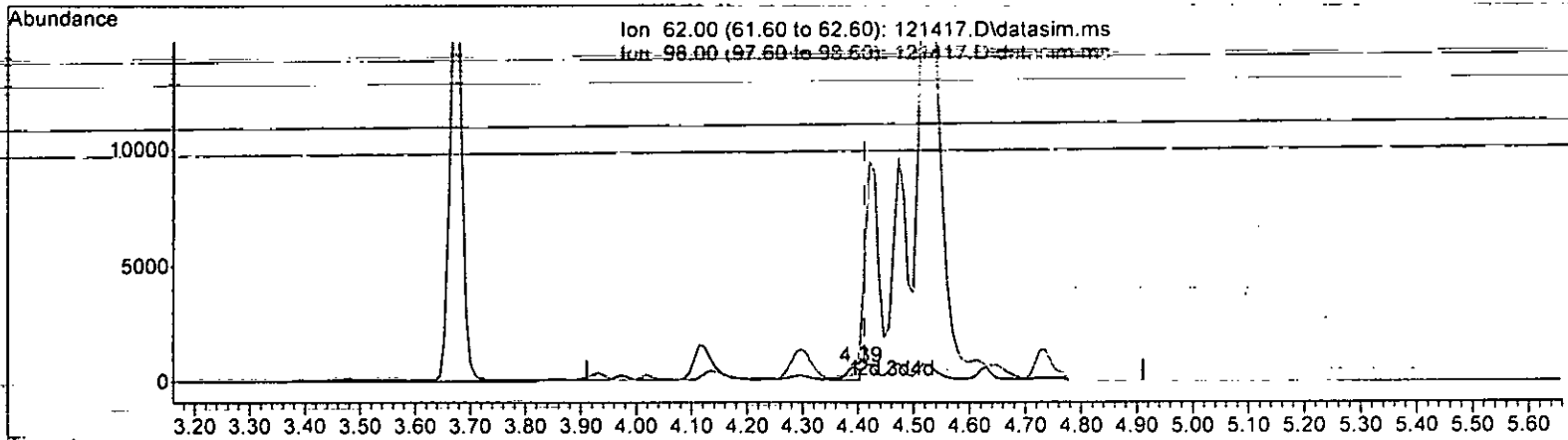
response 1638

Ion	Exp%	Act%
73.00	100.00	100.00
87.00	25.10	0.00
71.00	10.00	27.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121417.D\data.ms

(26) 1,2-Dichloroethane (EDC) (TMP)

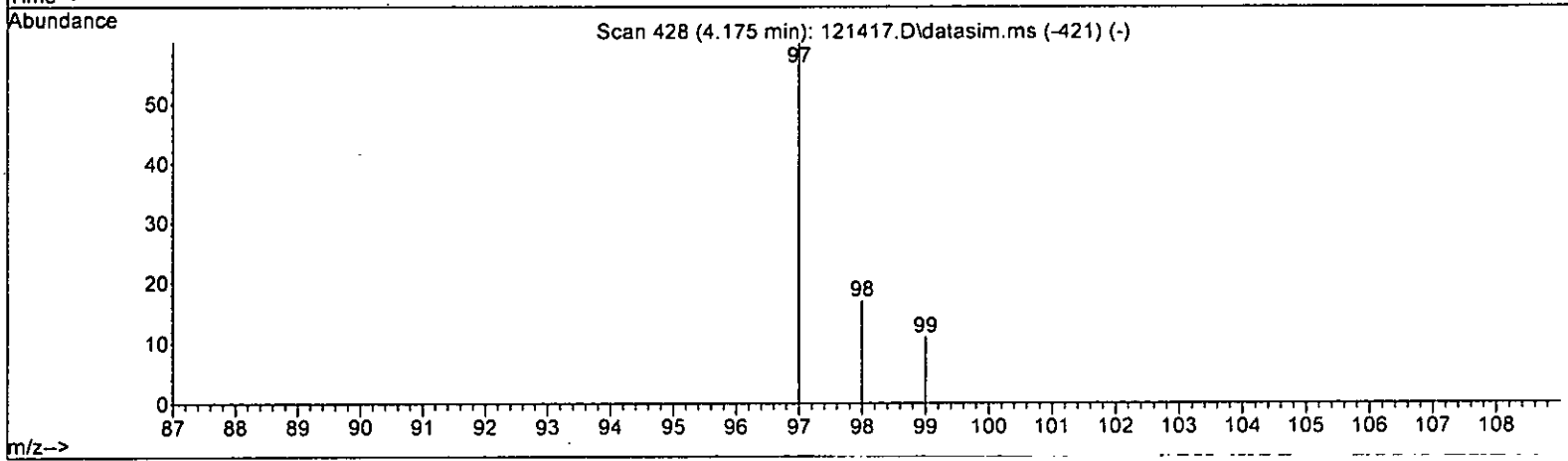
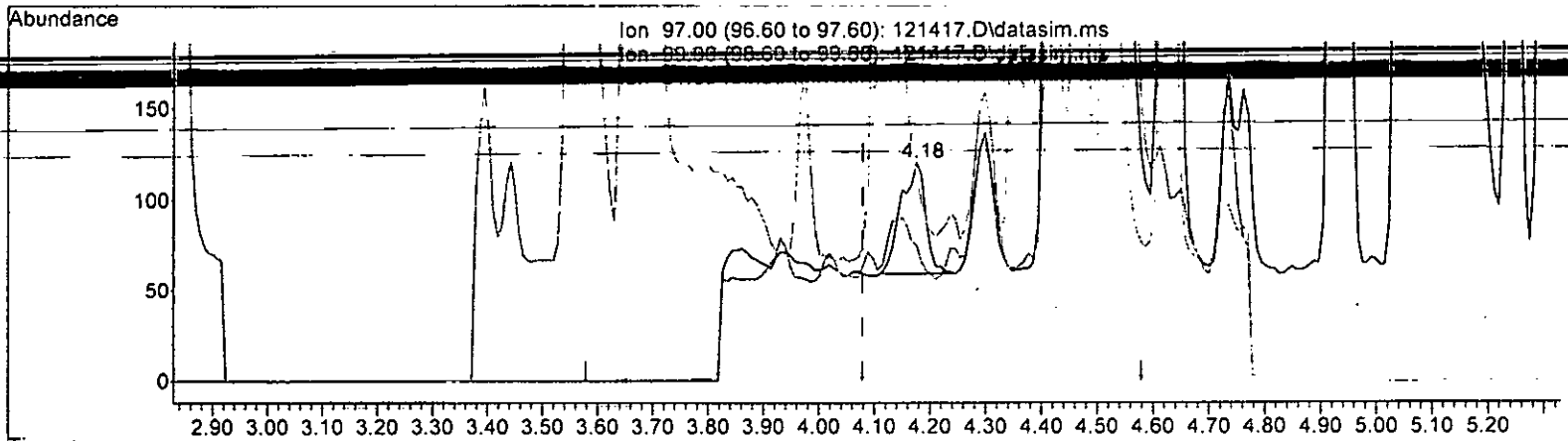
4.394min (-0.017) 0.499 ppb

response	963
Ion	Exp% Act%
62.00	100.00 100.00
98.00	8.20 31.90
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121417.D\data.ms

(27) 1,1,1-Trichloroethane (TMP)

4.175min (+ 0.096) 0.091 ppb

response 187

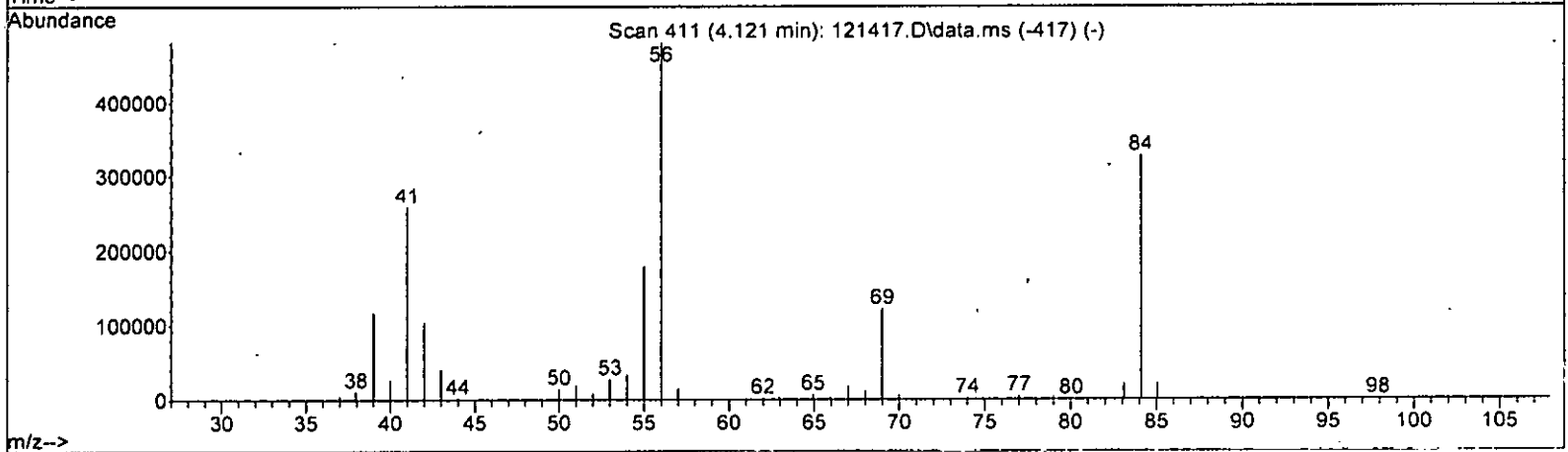
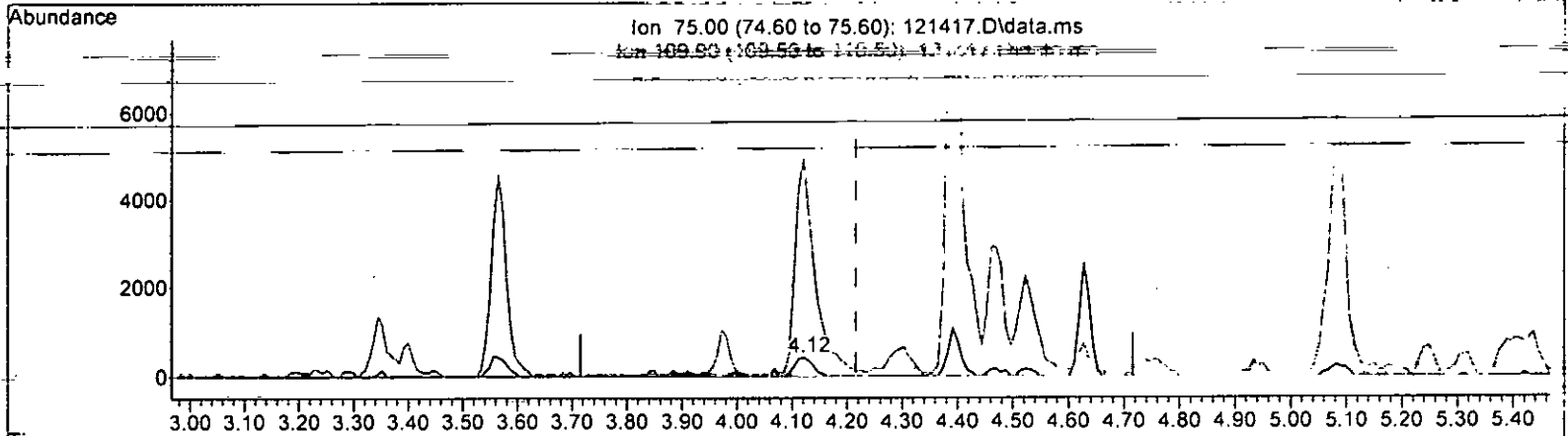
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.50	18.03#
61.00	45.60	39.34
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M



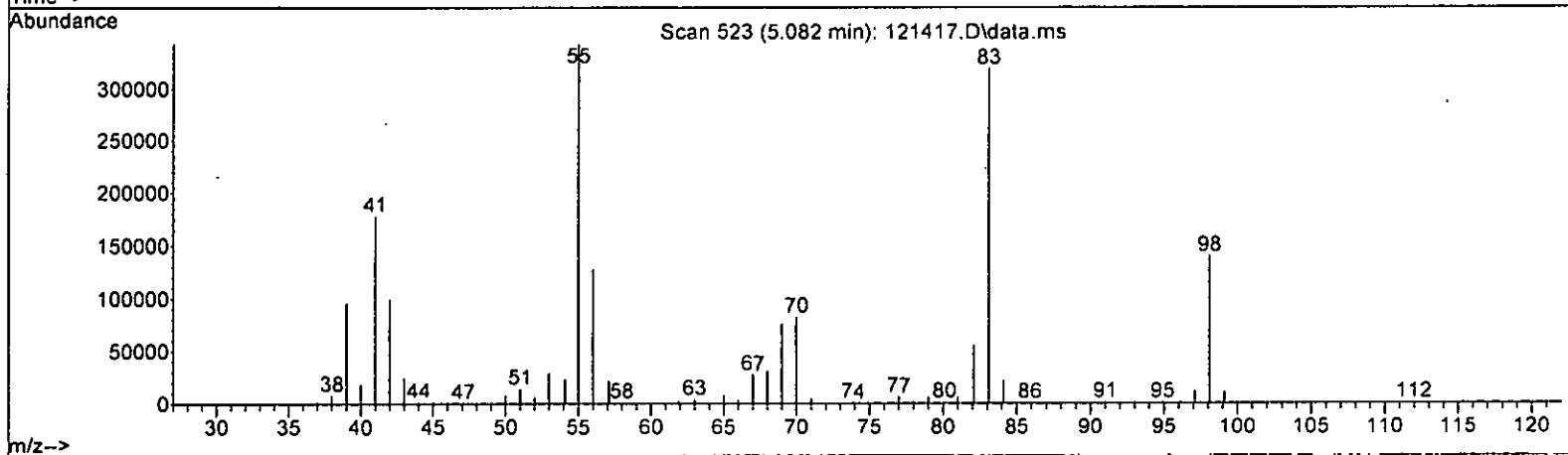
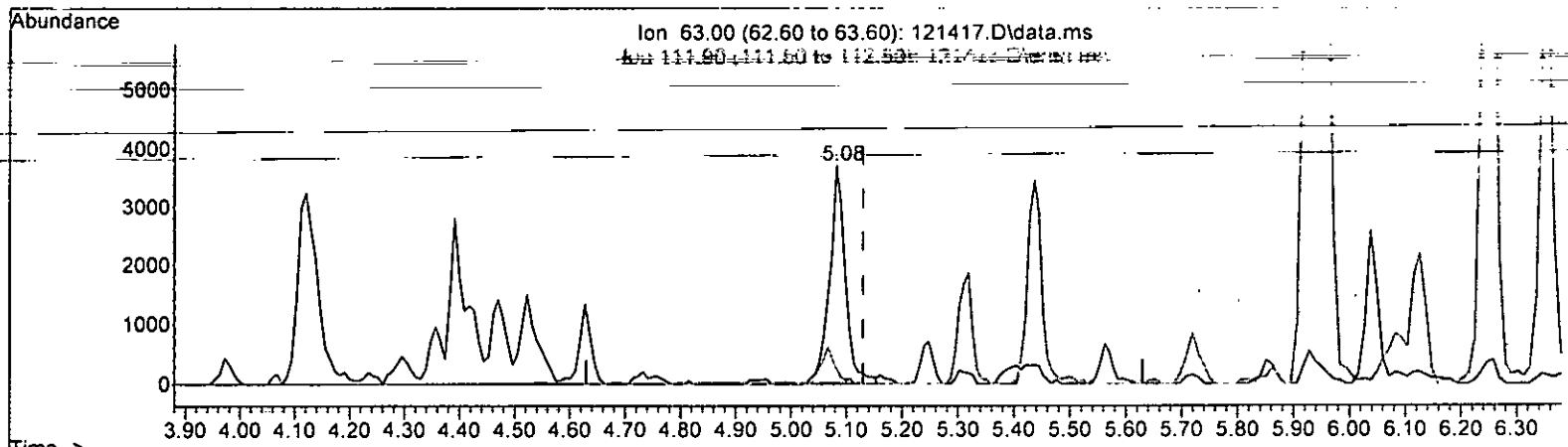
TIC: 121417.D\data.ms

(28) 1,1-Dichloropropene (TMP)		
Time (min)	Response	Concentration (ppb)
4.121	952	0.563
Ion	Exp%	Act%
75.00	100.00	100.00
109.90	36.10	0.00#
76.90	31.00	1166.43#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



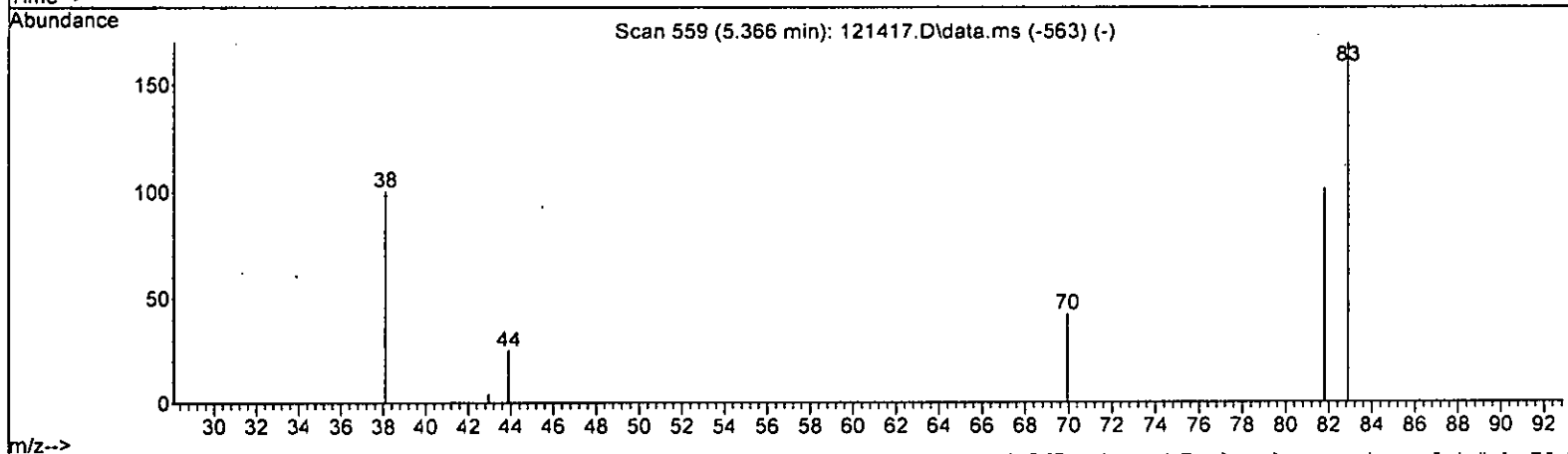
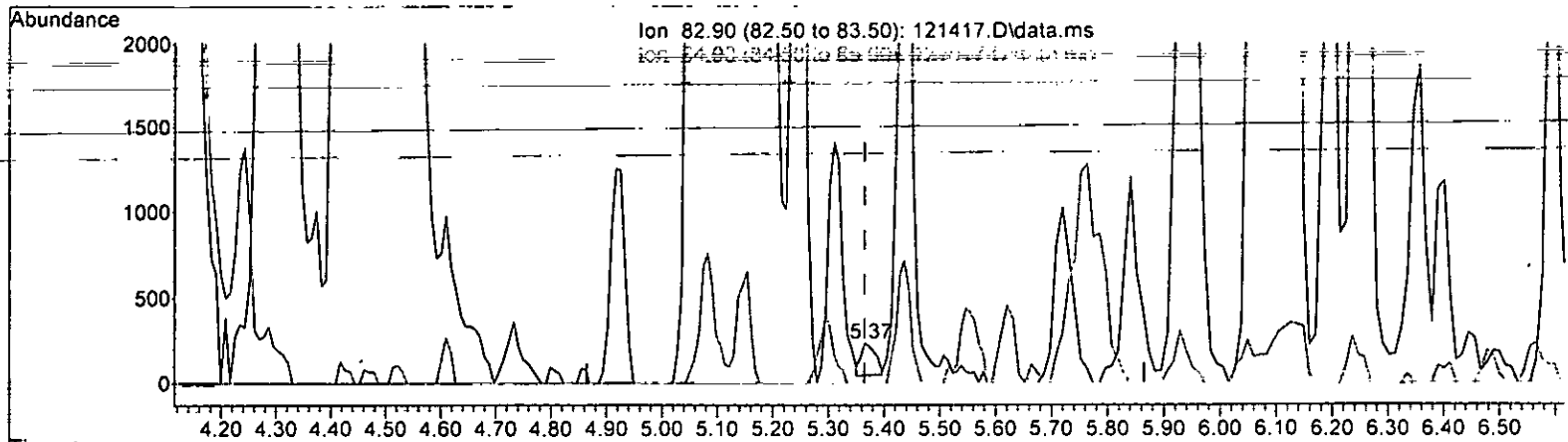
TIC: 121417.D\data.ms

(33) 1,2-Dichloropropane (TMP)		
5.082min (-0.048) 5.313 ppb		
response	7346	
Ion	Exp%	Act%
63.00	100.00	100.00
111.90	3.10	14.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



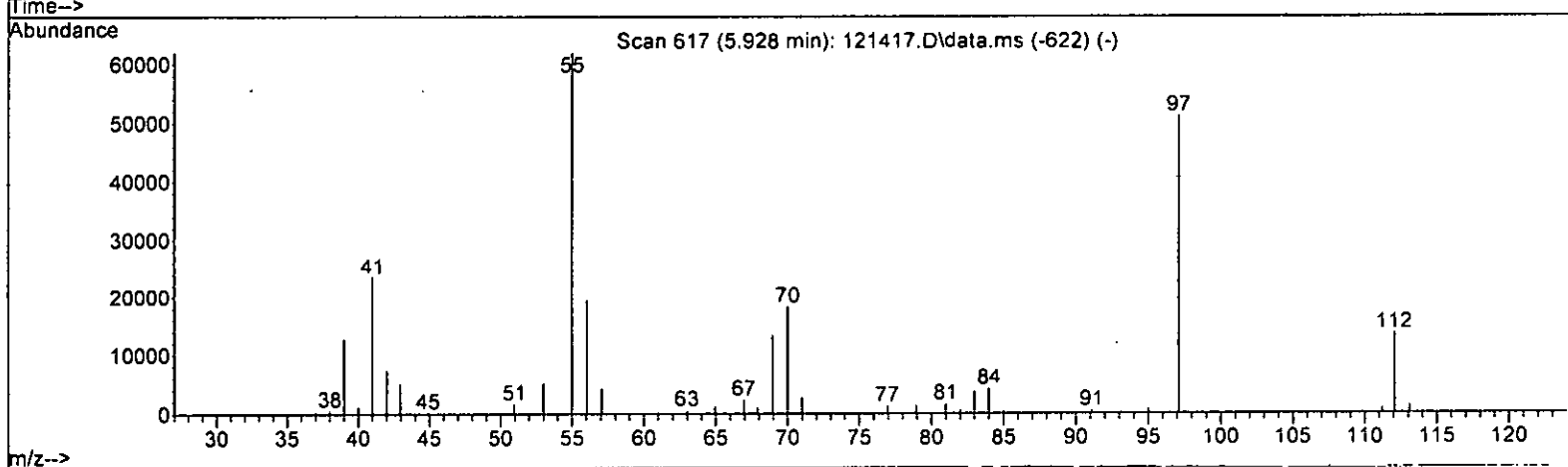
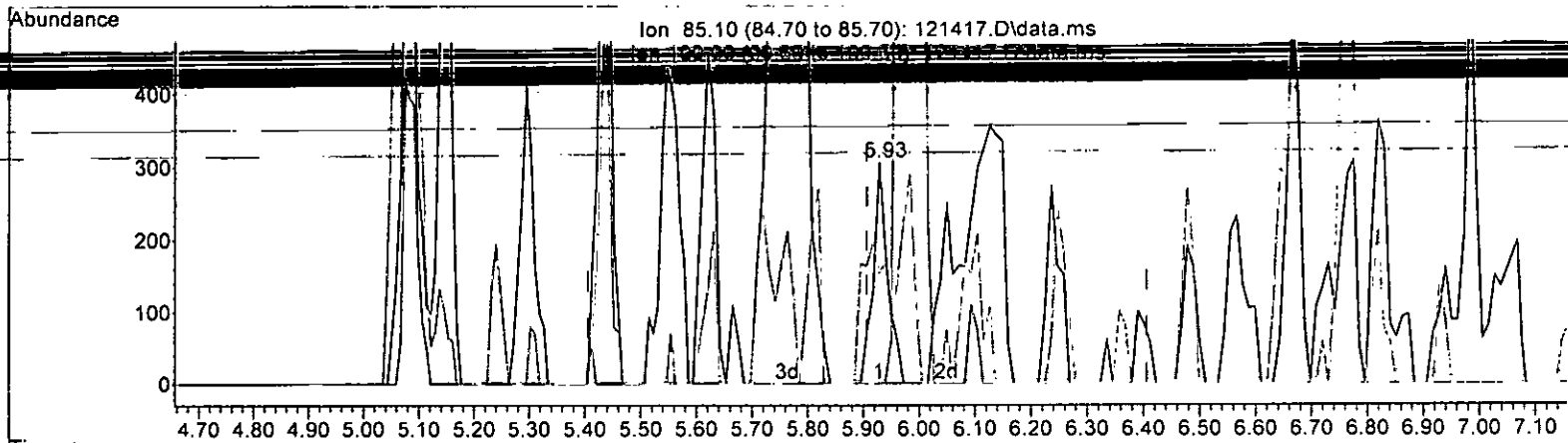
TIC: 121417.D\data.ms

(34) Bromodichloromethane (TMP)		
5.366min (+ 0.001)	0.201 ppb	
response	335	
Ion	Exp%	Act%
82.90	100.00	100.00
84.90	55.20	0.00#
126.80	9.50	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



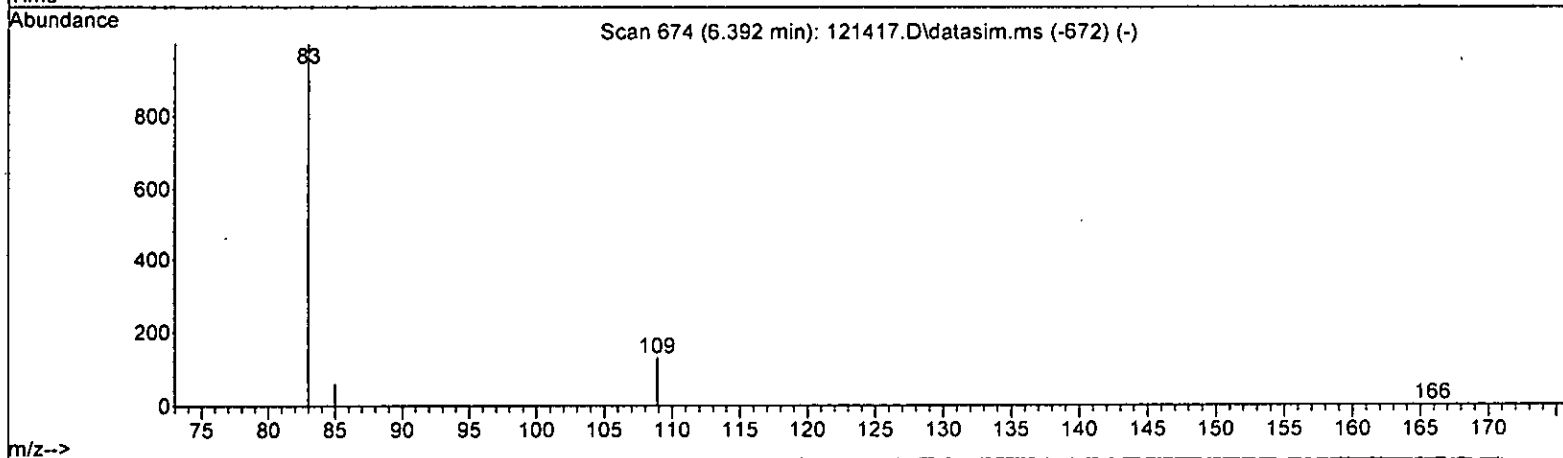
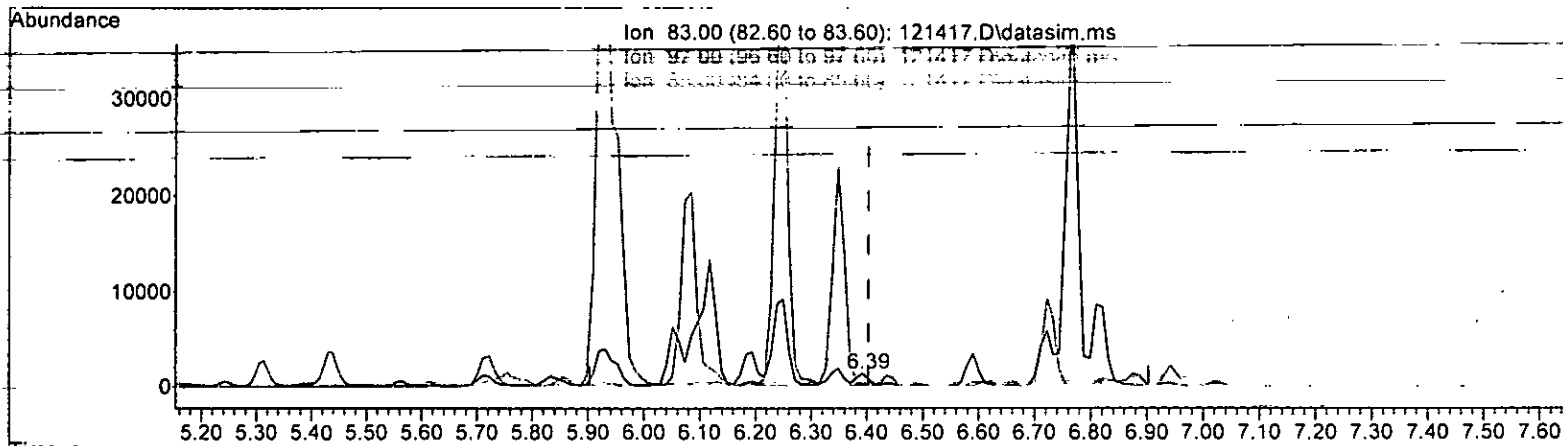
TIC: 121417.D\data.ms

(37) 4-Methyl-2-pentanone (TMP)		
5.928min (+ 0.022)	2.279 ppb	
response	555	
Ion	Exp%	Act%
85.10	100.00	100.00
100.00	80.90	0.00#
58.00	258.10	49.84#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



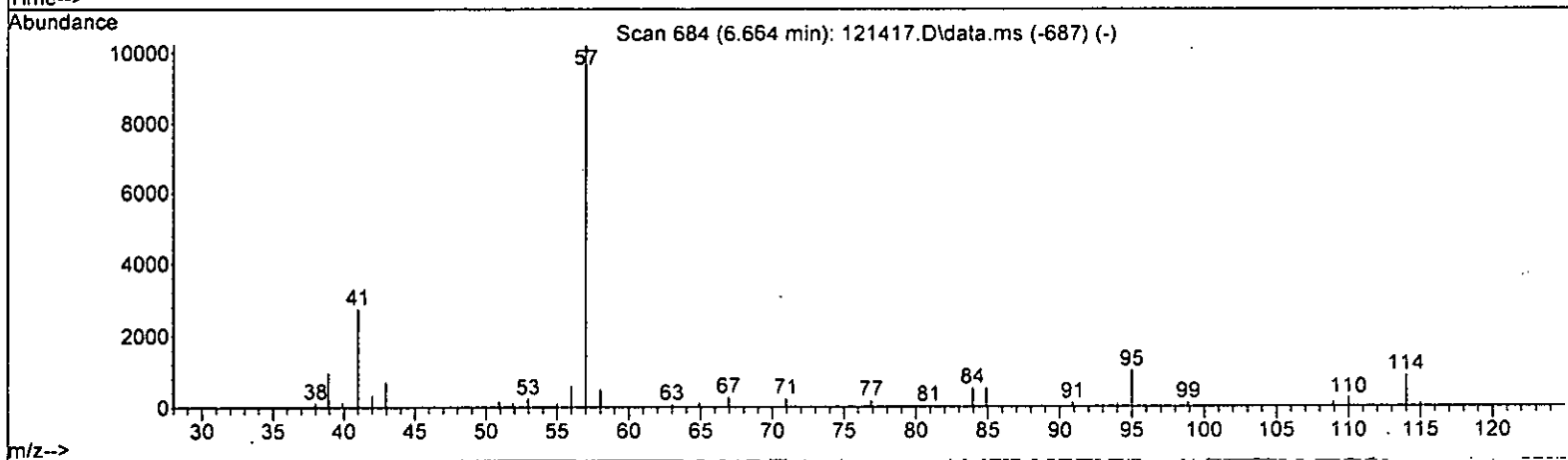
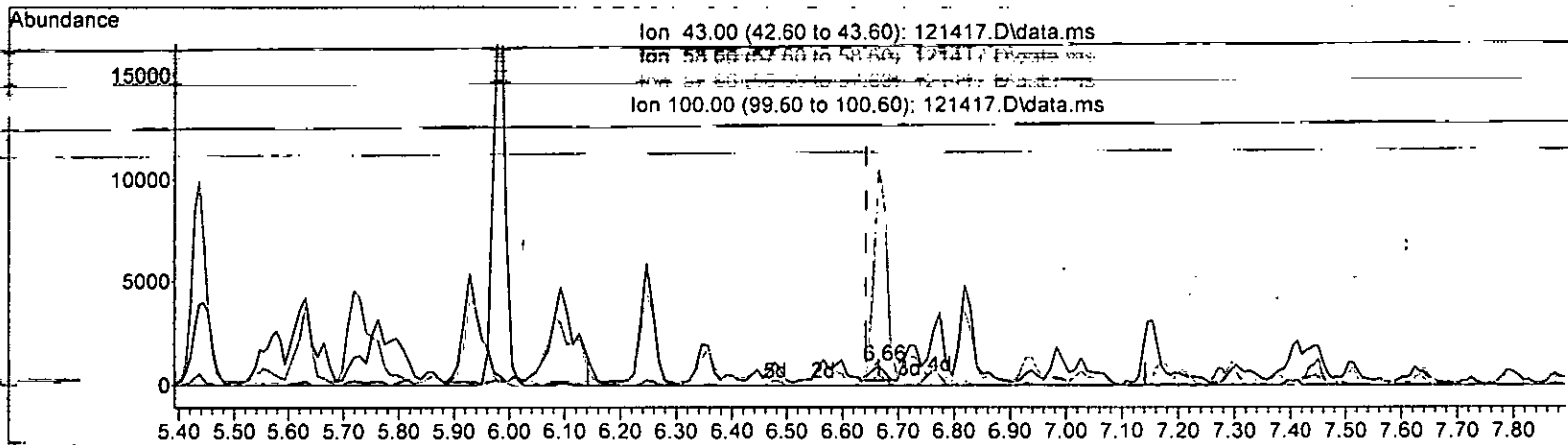
TIC: 121417.D\data.ms

(42) 1,1,2-Trichloroethane (TMP)		
6.392min (-0.011) 1.797 ppb		
response	1741	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	105.10	0.00#
85.00	63.60	5.08#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



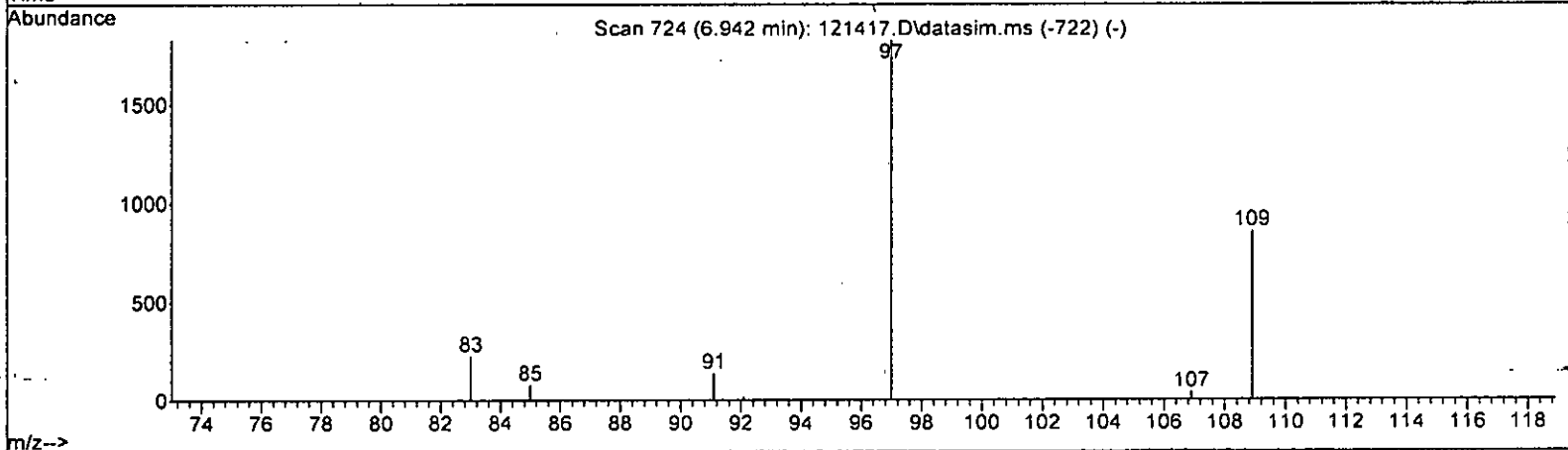
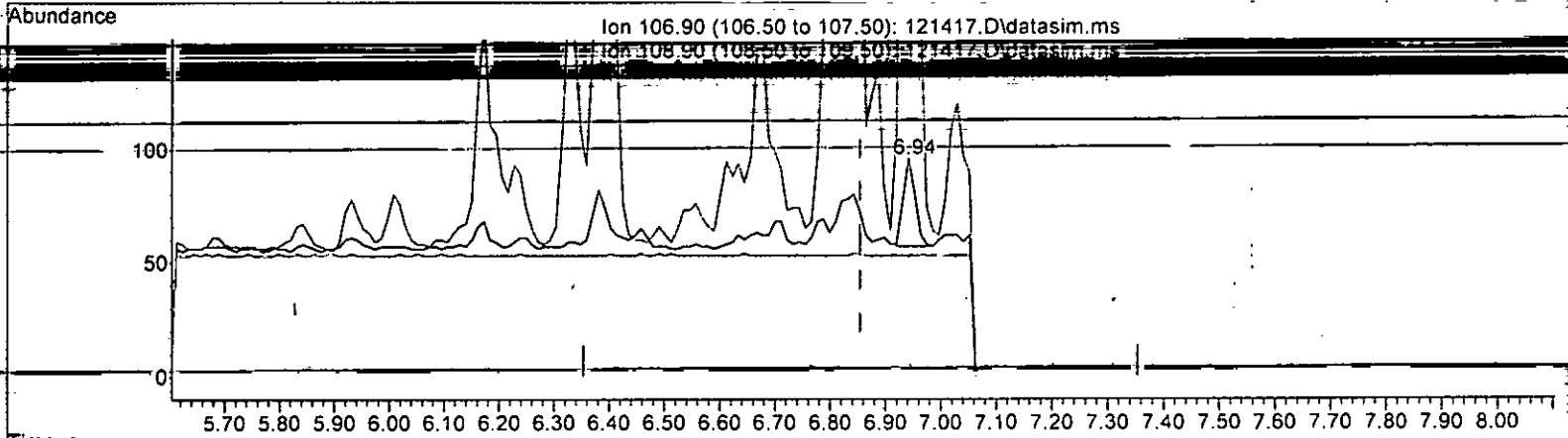
TIC: 121417.D\data.ms

(43) 2-Hexanone (TMP)		
6.664min (+ 0.022)	0.984	ppb
response	1212	
Ion	Exp%	Act%
43.00	100.00	100.00
58.00	57.90	67.52
57.00	19.20	1466.24#
100.00	8.20	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M



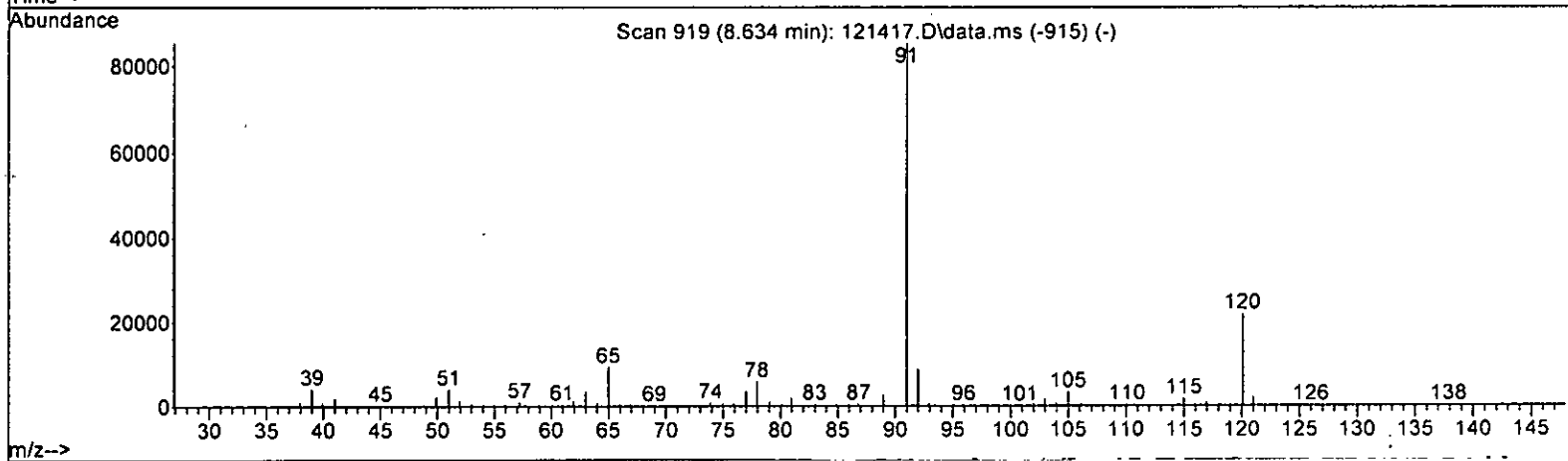
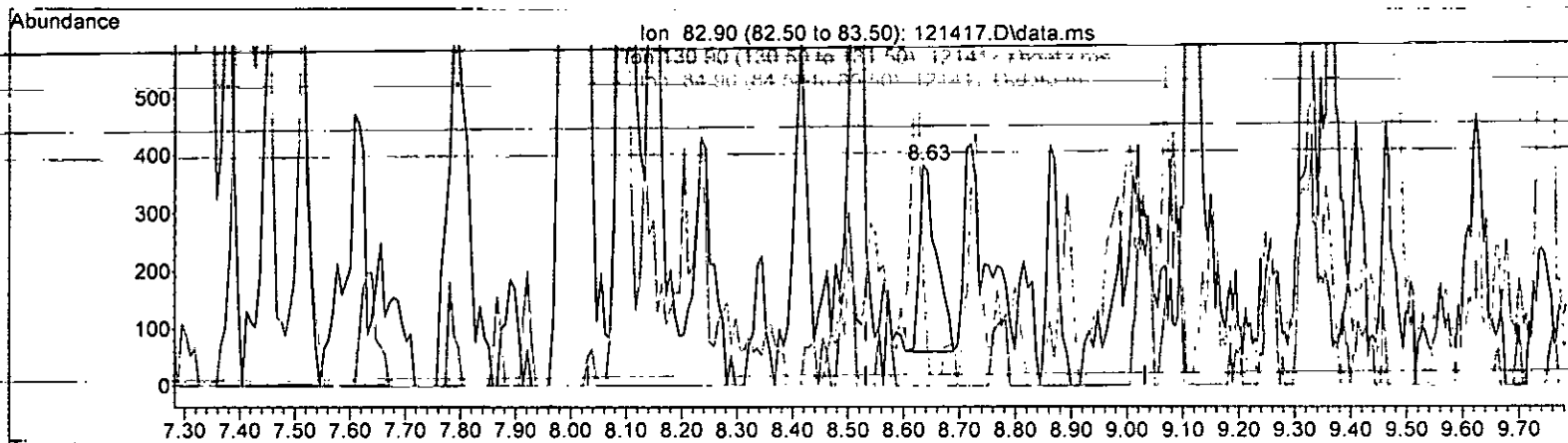
TIC: 121417.D\data.ms

(47) 1,2-Dibromoethane (EDB) (TMP)		
6.942min (+ 0.088)	0.049	ppb
response	59	
Ion	Exp%	Act%
106.90	100.00	100.00
108.90	94.80	2300.00#
187.90	3.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M



TIC: 121417.D\data.ms

(61) 1,1,2,2-Tetrachloroethane (TMP)

8.634min (+ 0.102) 0.492 ppb

response 682

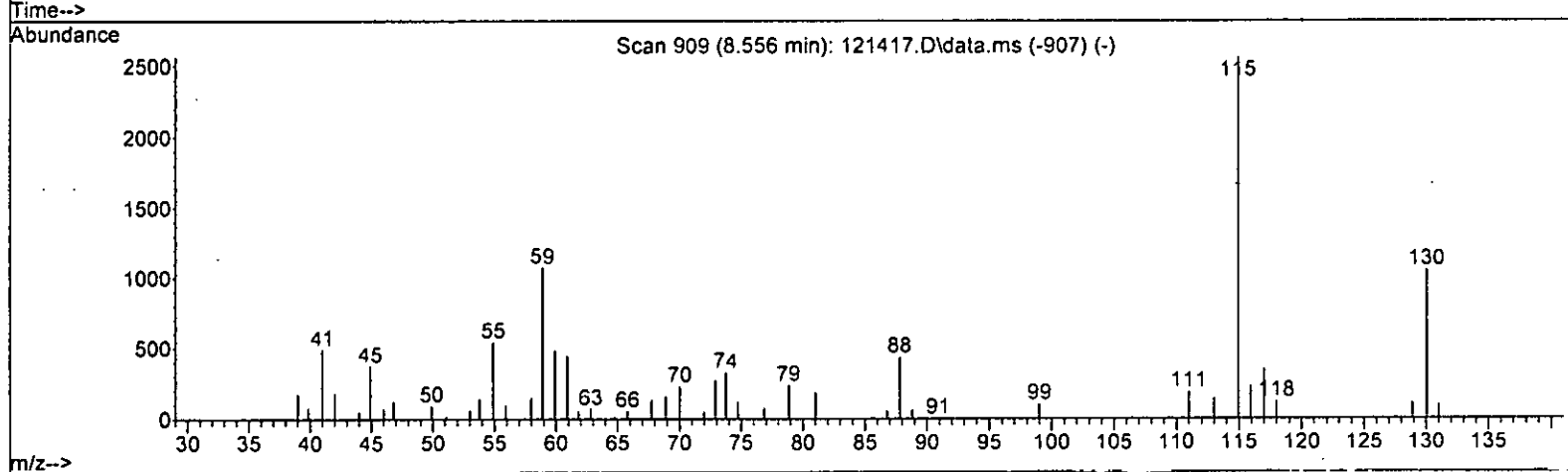
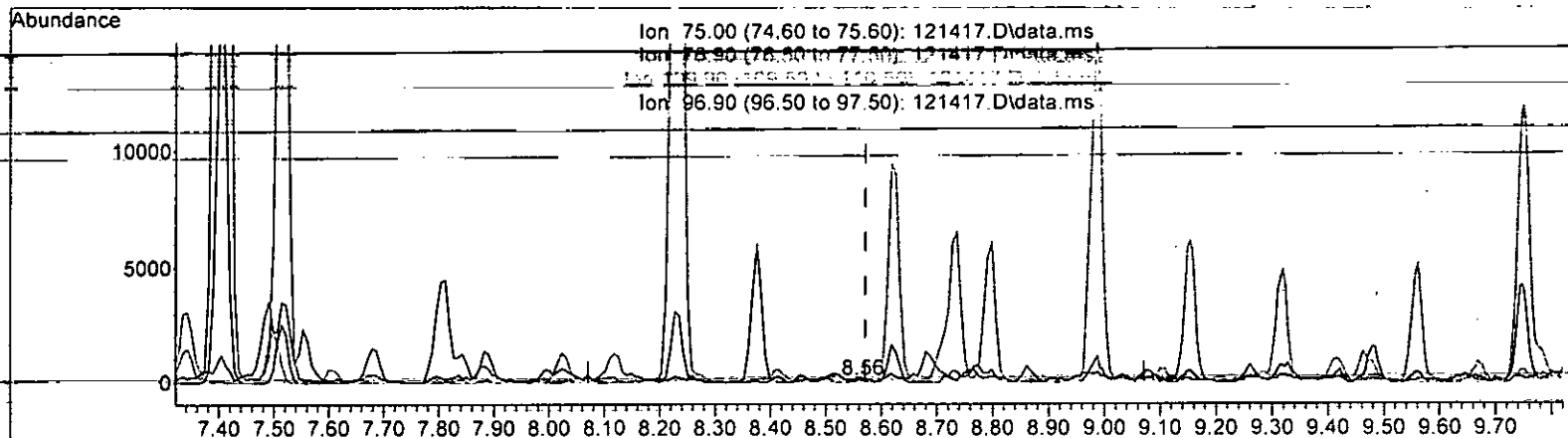
Ion	Exp%	Act%
82.90	100.00	100.00
130.90	12.20	0.00
84.90	61.80	41.67
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M



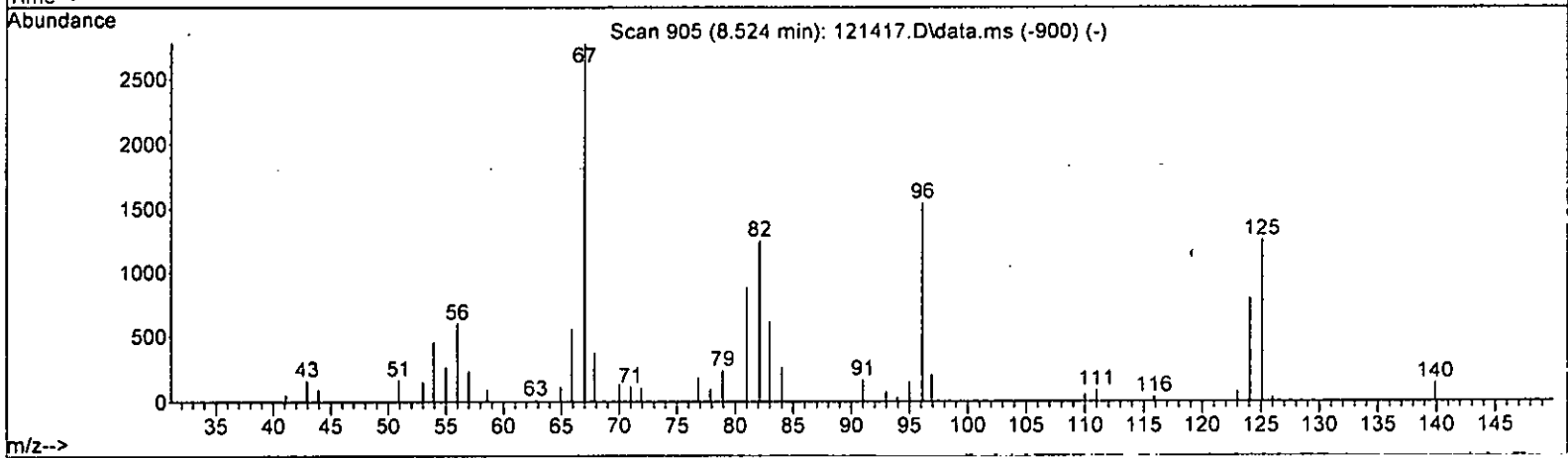
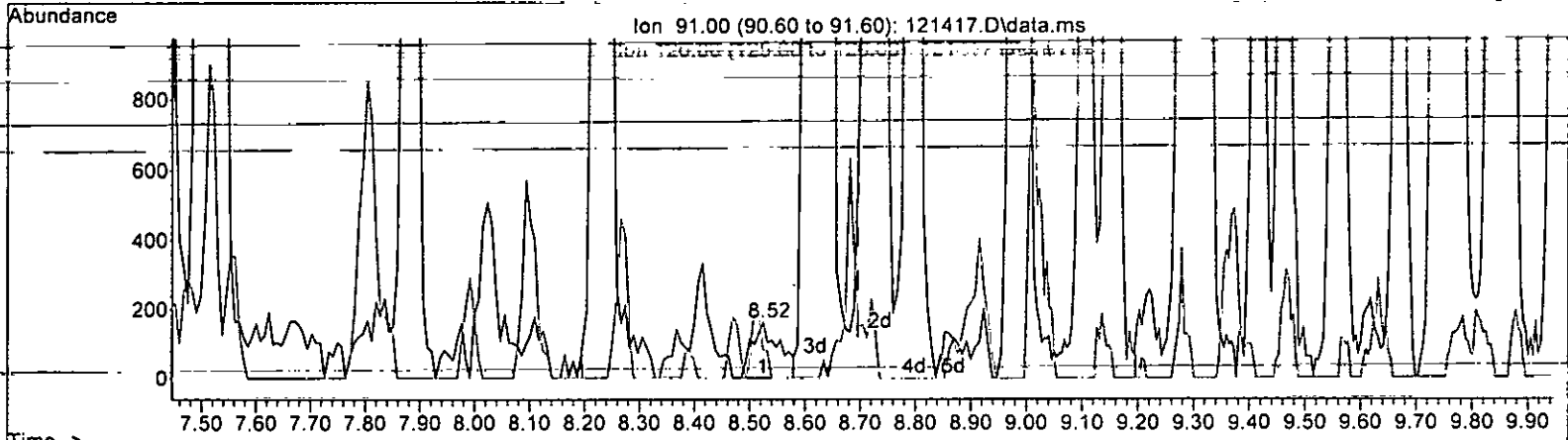
TIC: 121417.D\data.ms

(62) 1,2,3-Trichloropropane (TMP)		
8.556min (-0.015)	0.117 ppb	
response	136	
Ion	Exp%	Act%
75.00	100.00	100.00
76.90	29.70	120.34#
109.90	40.90	0.00#
96.90	19.00	51.69#

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



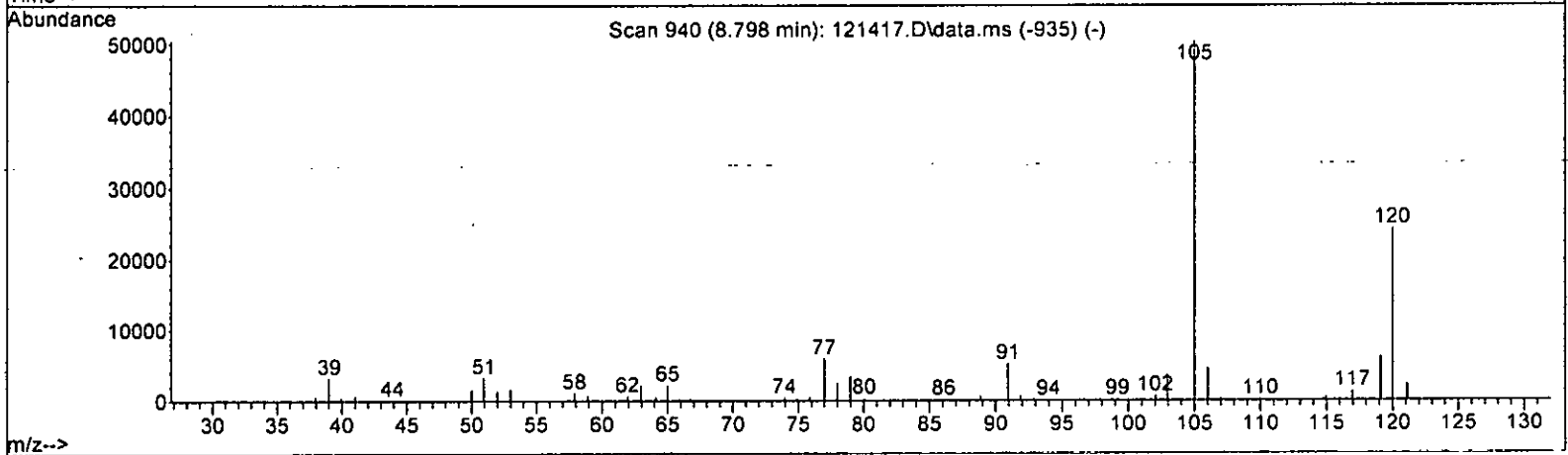
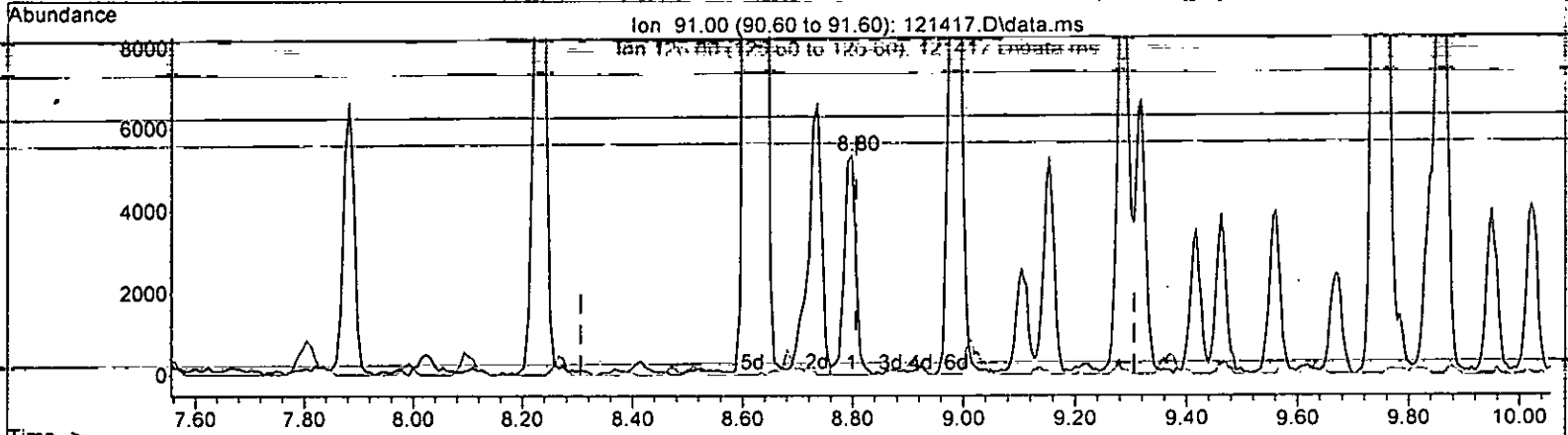
TIC: 121417.D\data.ms

(63) 2-Chlorotoluene (TMP)		
8.524min (-0.172)	0.142 ppb	
response	547	
Ion	Exp%	Act%
91.00	100.00	100.00
126.00	35.60	52.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



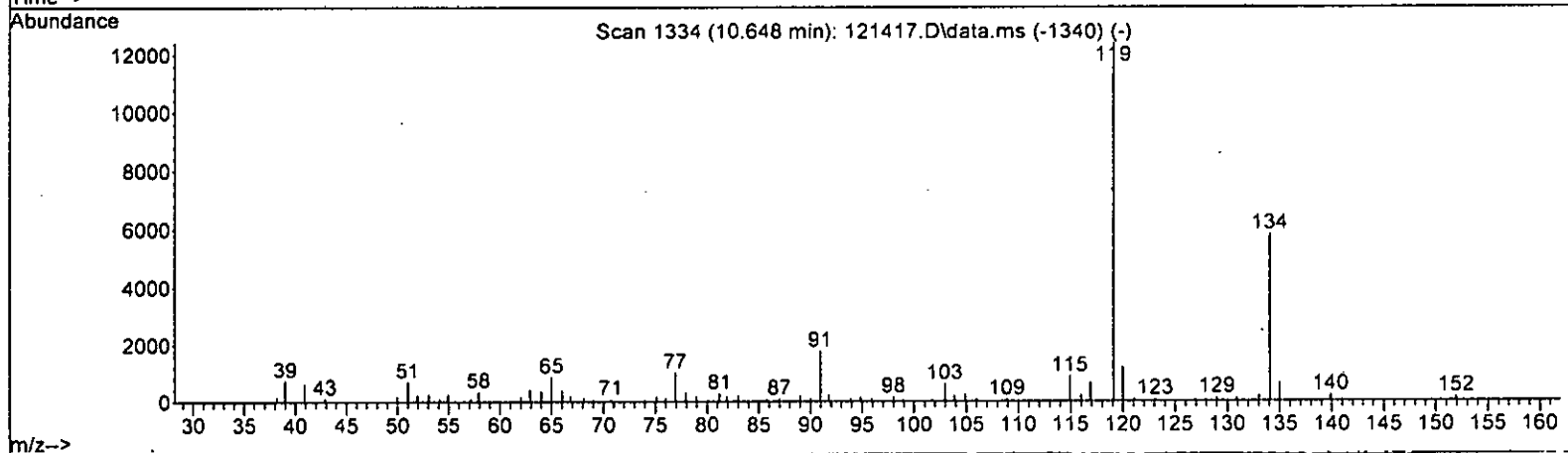
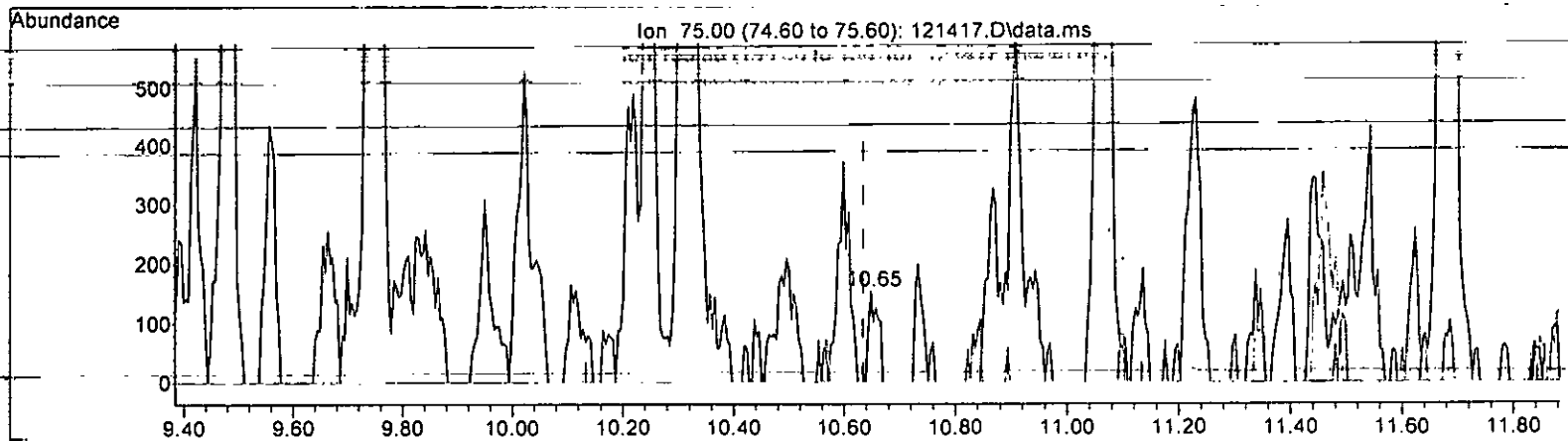
TIC: 121417.D\data.ms

(64) 4-Chlorotoluene (TMP)		
8.798min (-0.008) 1.738 ppb		
response	7879	
Ion	Exp%	Act%
91.00	100.00	100.00
126.00	34.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121417.D\data.ms

(72)	1,2-Dibromo-3-chloropropane (TMP)	
10.648min (+ 0.014)	0.581 ppb	
response	179	
Ion	Exp%	Act%
75.00	100.00	100.00
155.80	5.30	0.00
156.90	109.30	0.00#
0.00	0.00	0.00

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

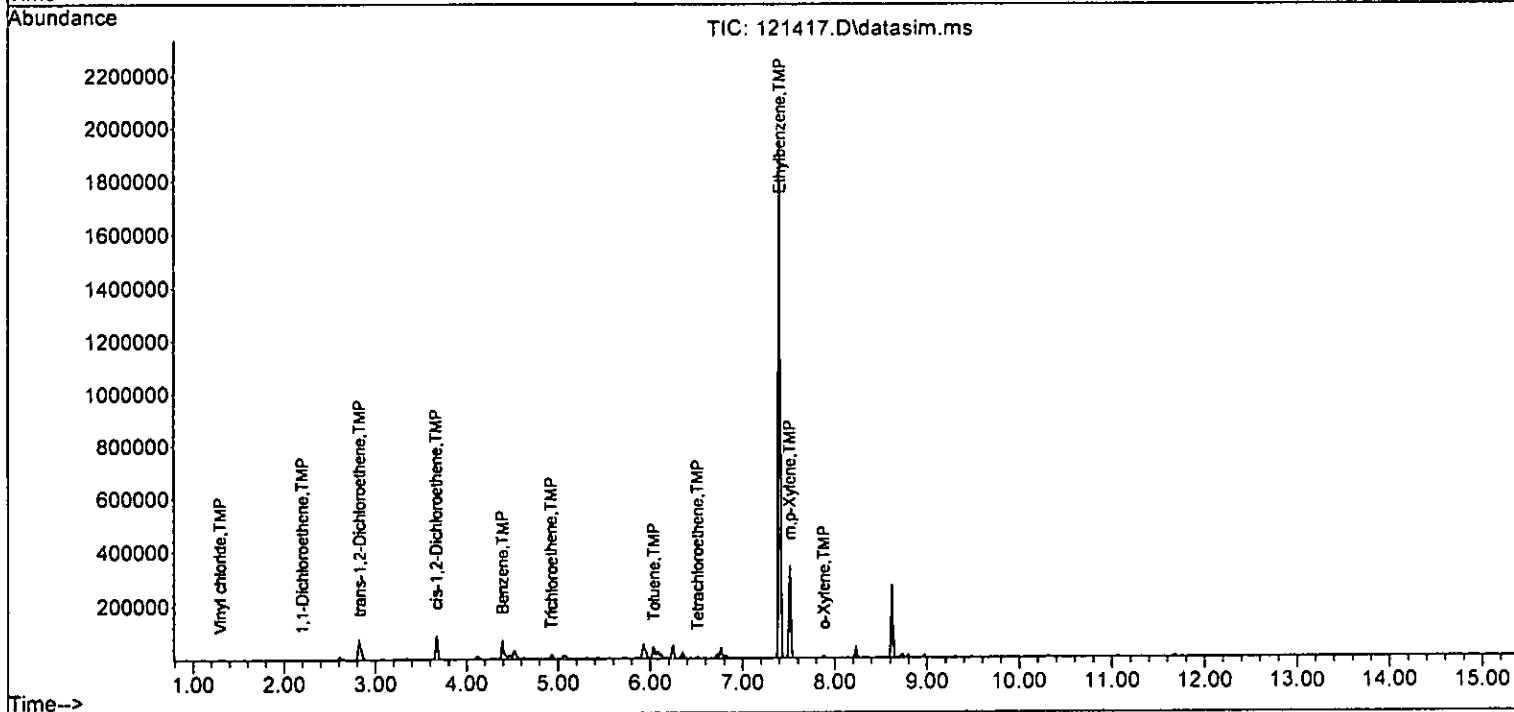
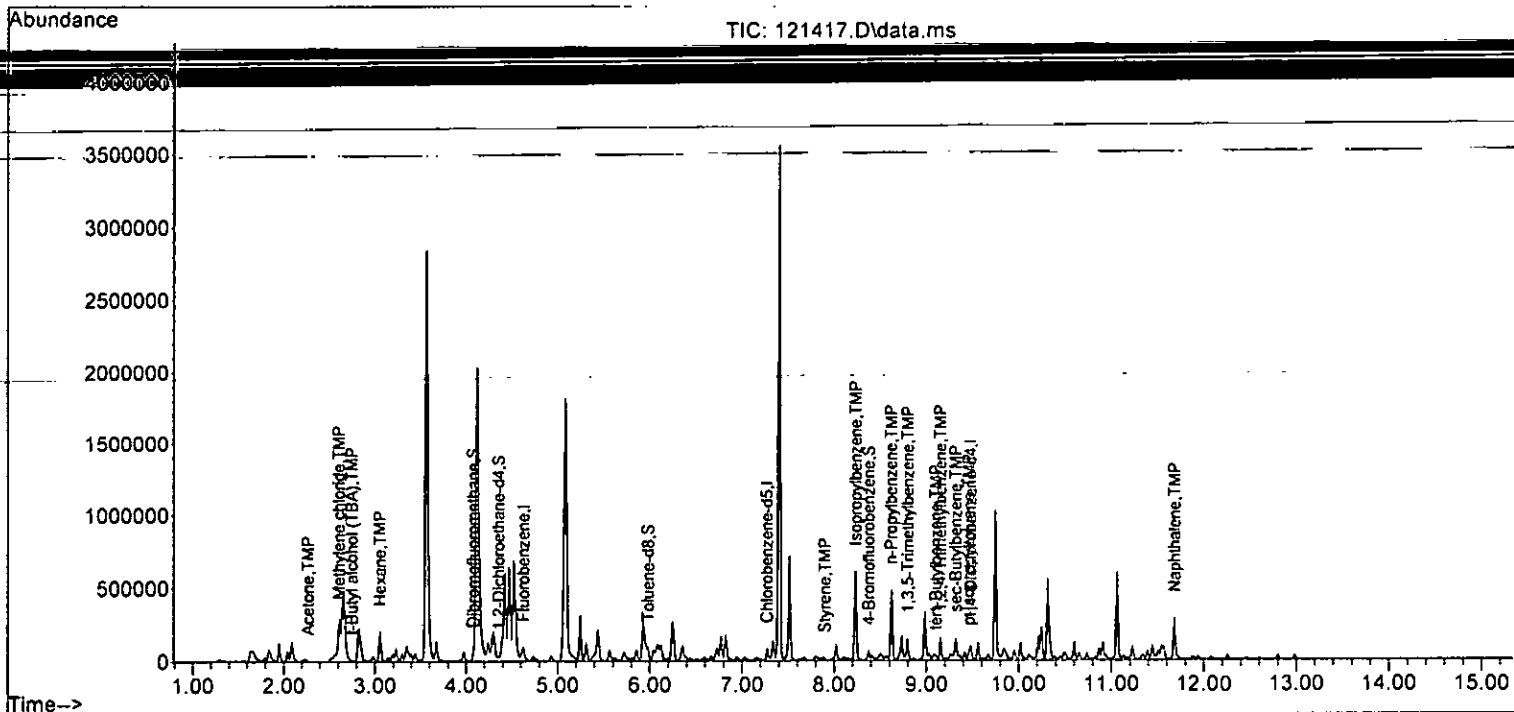
Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

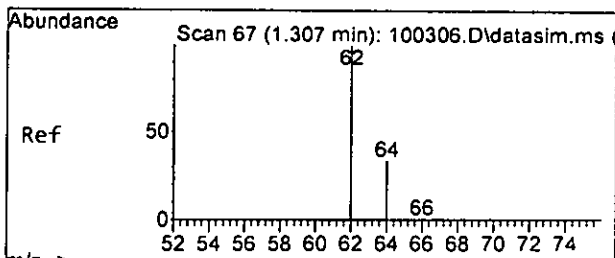
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	46669	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	36732	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19875	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	12553	10.194	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.90%
30) 1,2-Dichloroethane-d4	4.36	102	2651	9.415	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	94.20%
35) Toluene-d8	5.98	98	46132	10.296	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	103.00%
57) 4-Bromofluorobenzene	8.38	95	16542	9.858	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	98.60%
<b>Target Compounds</b>						
6] Vinyl chloride	1.30	62	2373m	0.695	ppb	
11) Acetone	2.27	58	507	2.918	ppb	# 1
12] 1,1-Dichloroethene	2.20	96	64	0.057	ppb	98
13) Hexane	3.05	57	83607	41.303	ppb	96
14) Methylene chloride	2.61	84	3174	2.528	ppb	# 67
15) t-Butyl alcohol (TBA)	2.75	59	755	3.503	ppb	55
17] trans-1,2-Dichloroethene	2.83	96	1940	1.527	ppb	99
22] cis-1,2-Dichloroethene	3.67	96	42728	31.970	ppb	93
31] Benzene	4.39	78	84214	18.063	ppb	100
32] Trichloroethene	4.93	95	6727	4.568	ppb	98
40] Toluene	6.04	92	23948	7.602	ppb	100
45] Tetrachloroethene	6.51	164	2425	1.929	ppb	98
49] Ethylbenzene	7.41	91	2141387	361.794	ppb	89
51] m,p-Xylene	7.52	106	158307	70.963	ppb	91
52] o-Xylene	7.88	106	4238	1.939	ppb	99
53) Styrene	7.90	104	1130	0.316	ppb	63
54) Isopropylbenzene	8.23	105	362231	63.055	ppb	99
58) n-Propylbenzene	8.62	91	336099	51.537	ppb	96
60) 1,3,5-Trimethylbenzene	8.80	105	70847	14.593	ppb	98
65) tert-Butylbenzene	9.10	119	5394	1.268	ppb	93
66) 1,2,4-Trimethylbenzene	9.15	105	66390	13.490	ppb	97
67) sec-Butylbenzene	9.32	105	53279	8.639	ppb	100
68) p-Isopropyltoluene	9.46	119	21145	3.982	ppb	96
75) Naphthalene	11.68	128	194471	37.677	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

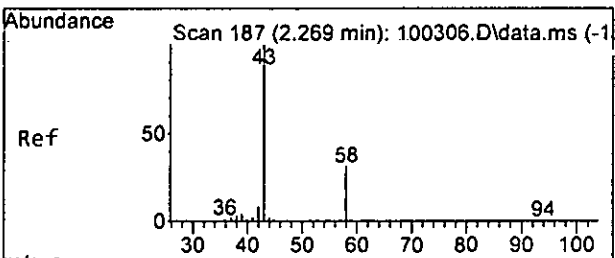
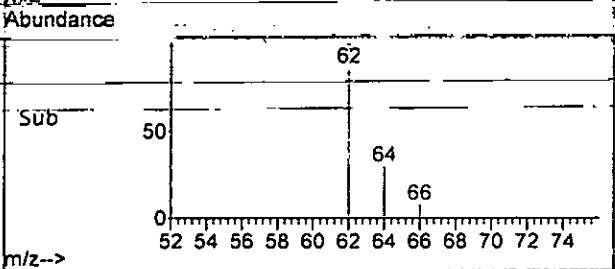
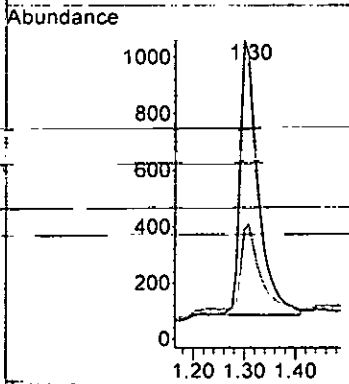
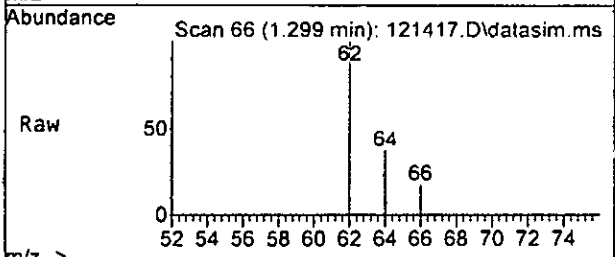
Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





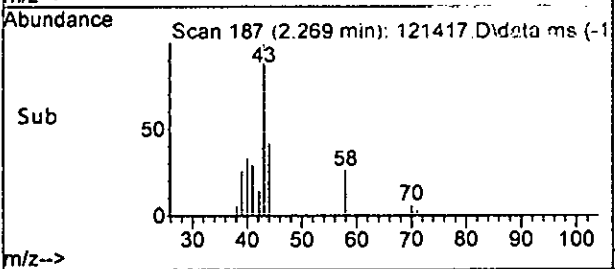
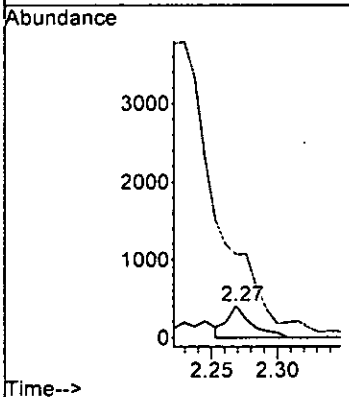
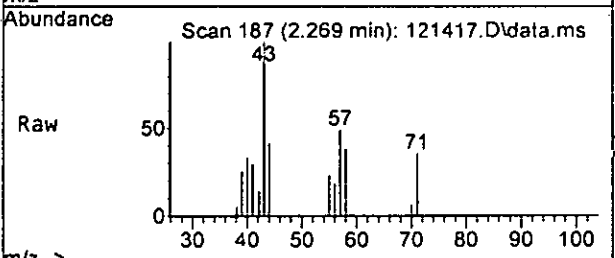
#6  
 Vinyl chloride  
 Concen: 0.695 ppb m  
 RT: 1.30 min Scan# 66  
 Delta R.T. 0.007 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

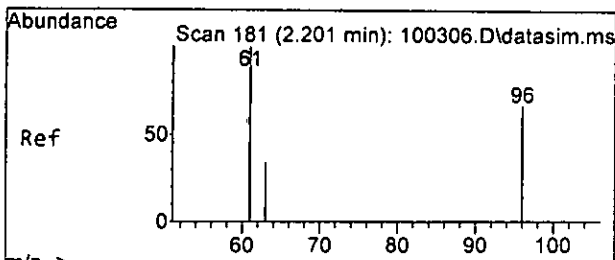
Tgt Ion: 62 Resp: 2373  
 Ion Ratio Lower Upper  
 62 100  
 64 36.6 0.0 58.8



#11  
 Acetone  
 Concen: 2.918 ppb  
 RT: 2.27 min Scan# 187  
 Delta R.T. 0.008 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

Tgt Ion: 58 Resp: 507  
 Ion Ratio Lower Upper  
 58 100  
 43 0.0 308.5 368.5#

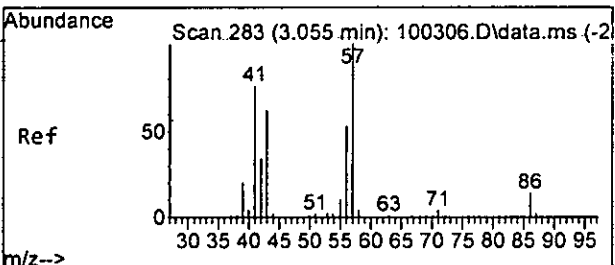
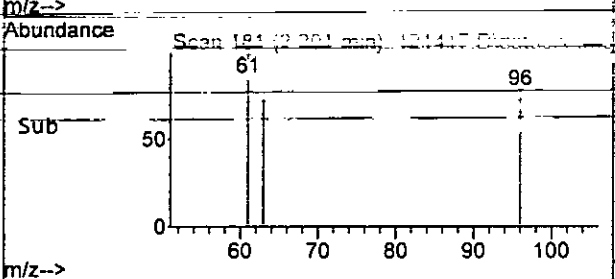
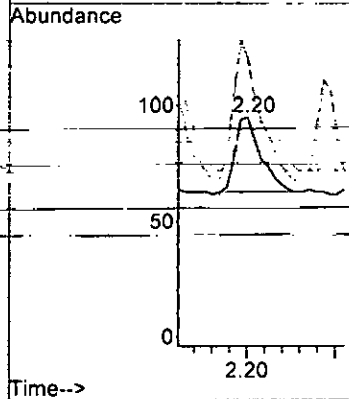
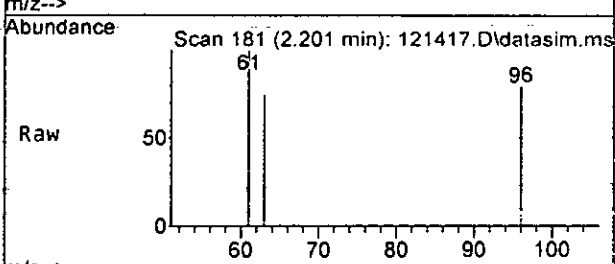




#12  
 1,1-Dichloroethene  
 Concen: 0.057 ppb  
 RT: 2.20 min Scan# 181  
 Delta R.T. 0.016 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

Tgt Ion: 96 Resp: 64

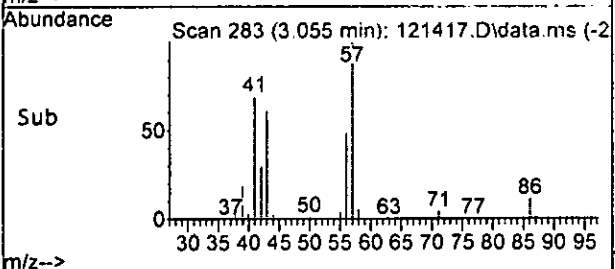
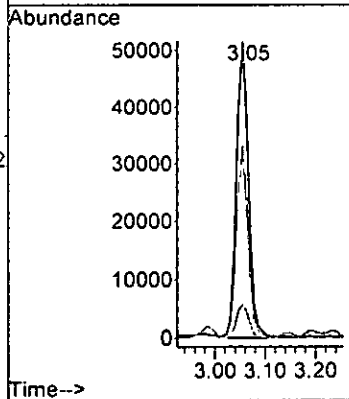
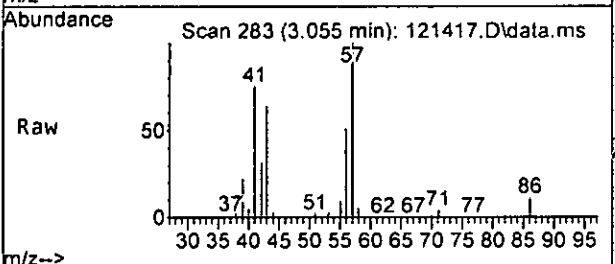
Ion	Ratio	Lower	Upper
96	100		
61	162.5	130.0	190.0
63	56.3	23.7	83.7



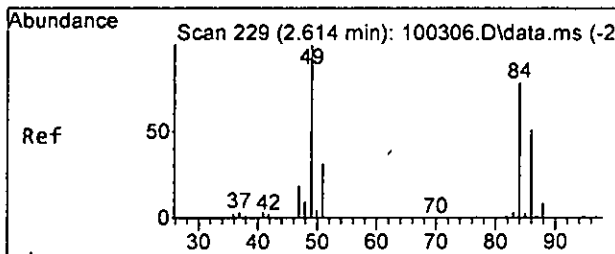
#13  
 Hexane  
 Concen: 41.303 ppb  
 RT: 3.05 min Scan# 283  
 Delta R.T. 0.008 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

Tgt Ion: 57 Resp: 83607

Ion	Ratio	Lower	Upper
57	100		
43	63.8	30.4	90.4
86	11.4	0.0	41.4

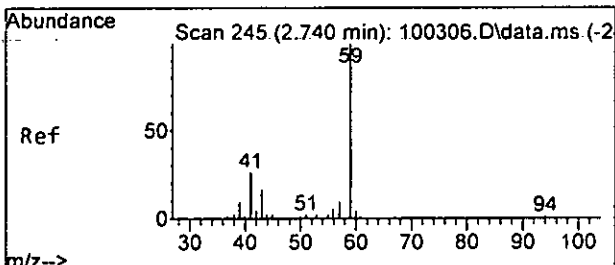
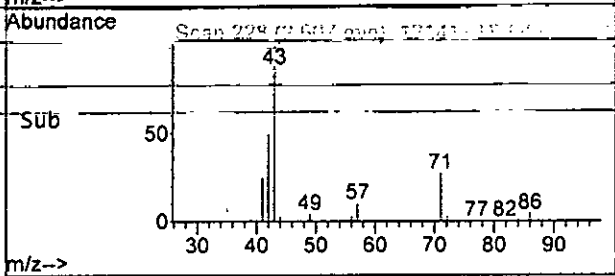
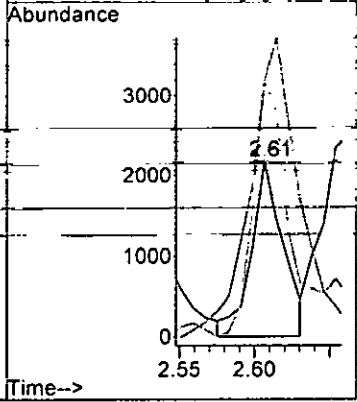
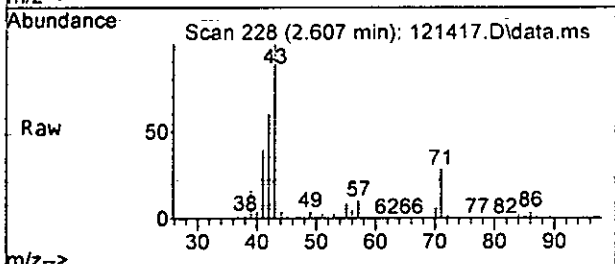






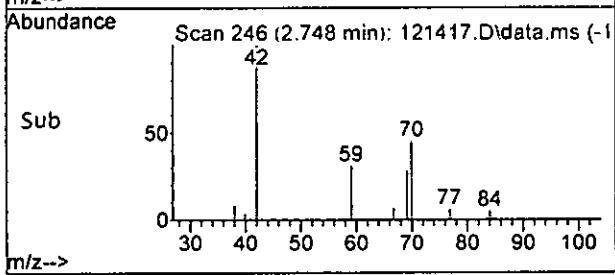
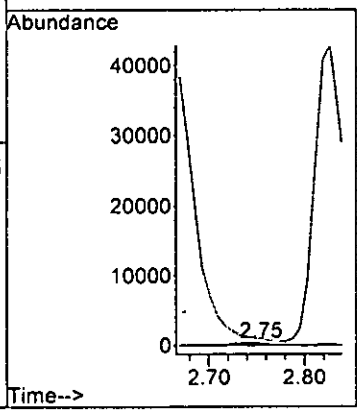
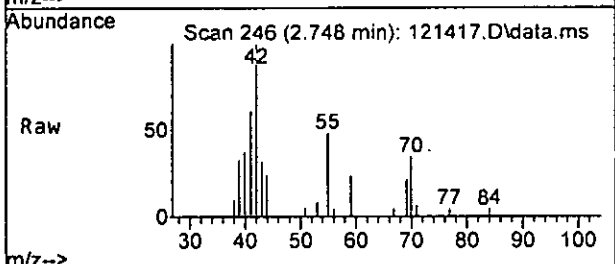
#14  
 Methylene chloride  
 Concen: 2.528 ppb  
 RT: 2.61 min Scan# 228  
 Delta R.T. 0.008 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

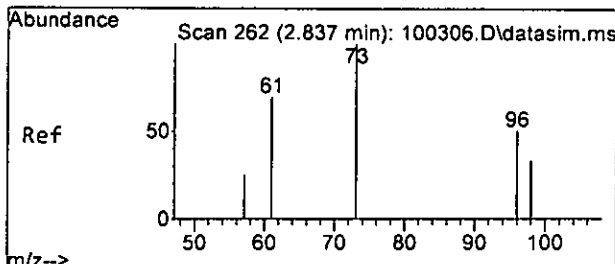
Tgt Ion: 84 Resp: 3174  
 Ion Ratio Lower Upper  
 84 100  
 86 146.7 30.4 90.4#  
 49 161.1 127.9 187.9



#15  
 t-Butyl alcohol (TBA)  
 Concen: 3.503 ppb  
 RT: 2.75 min Scan# 246  
 Delta R.T. 0.016 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

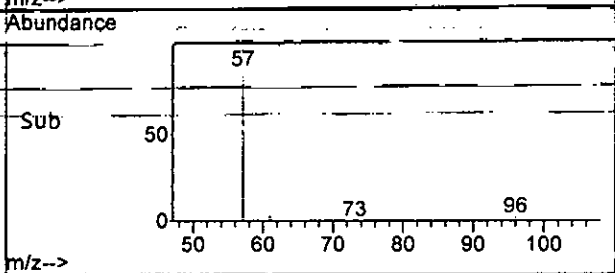
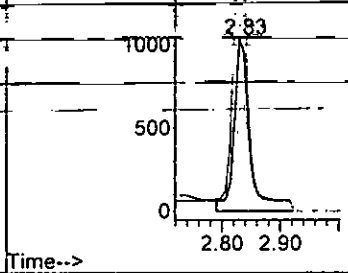
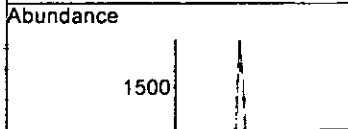
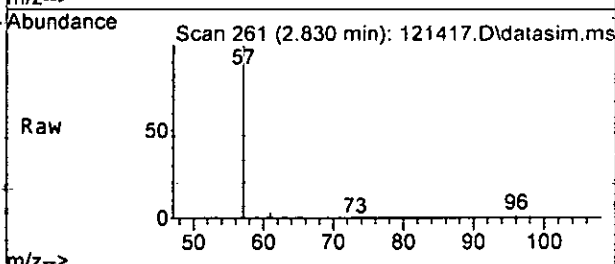
Tgt Ion: 59 Resp: 755  
 Ion Ratio Lower Upper  
 59 100  
 41 0.0 0.0 50.9





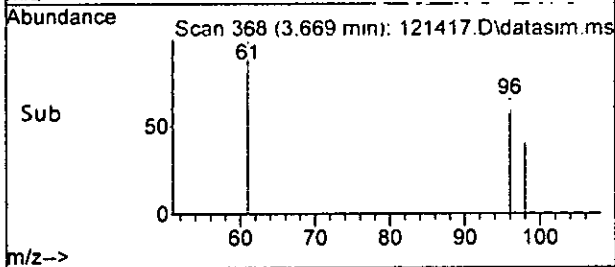
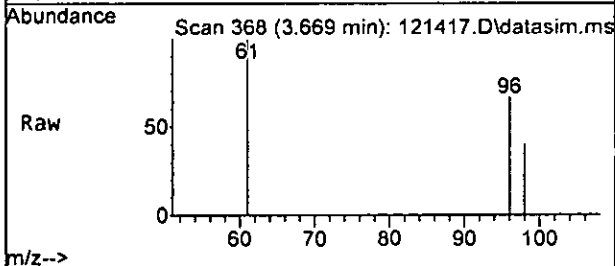
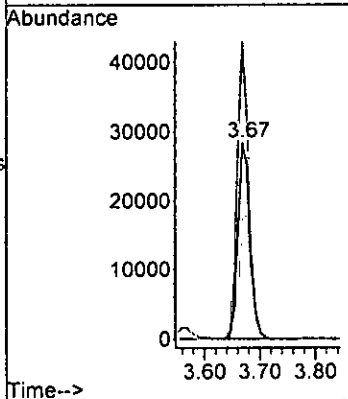
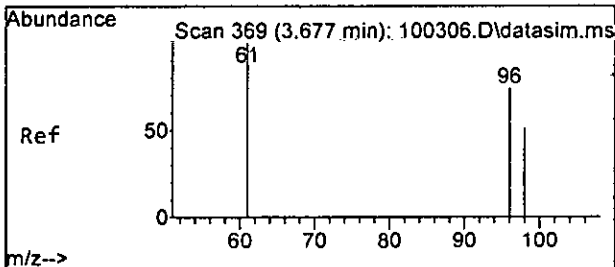
#17  
 trans-1,2-Dichloroethene  
 Concen: 1.527 ppb  
 RT: 2.83 min Scan# 261  
 Delta R.T. 0.008 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

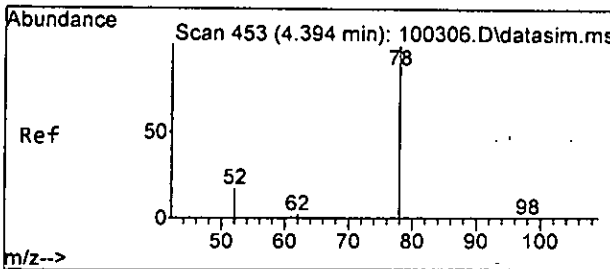
Tgt Ion: 96 Resp: 1940  
 Ion Ratio Lower Upper  
 96 100  
 61 173.3 141.8 201.8  
 98 62.9 31.0 91.0



#22  
 cis-1,2-Dichloroethene  
 Concen: 31.970 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. 0.000 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

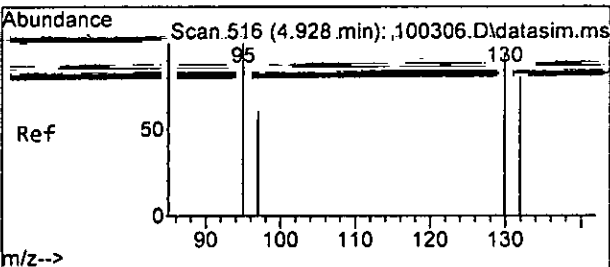
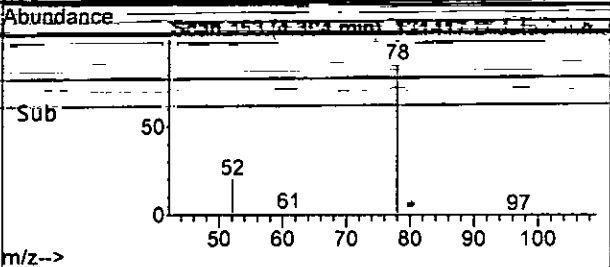
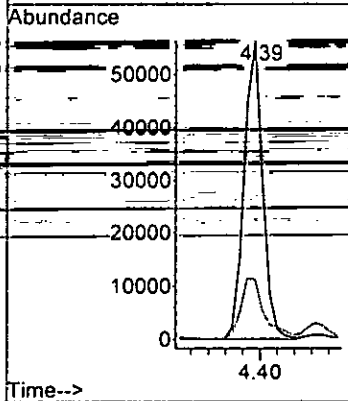
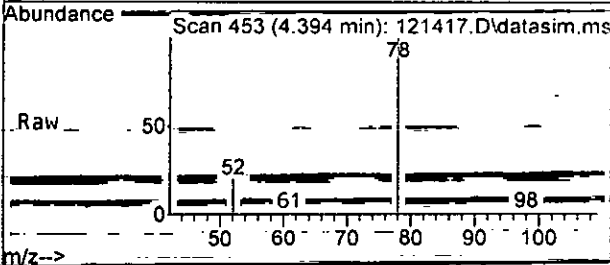
Tgt Ion: 96 Resp: 42728  
 Ion Ratio Lower Upper  
 96 100  
 61 150.5 132.4 192.4  
 98 60.5 29.7 89.7





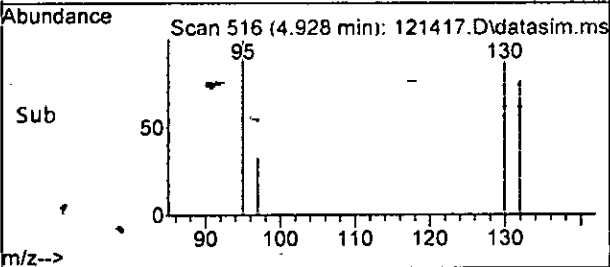
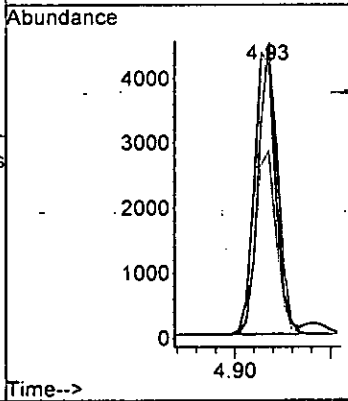
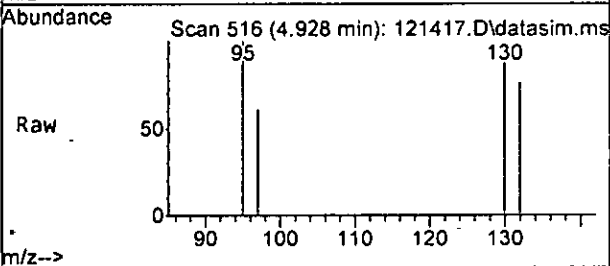
#31  
Benzene  
Concen: 18.063 ppb  
RT: 4.39 min Scan# 453  
Delta R.T. 0.009 min  
Lab File: 121417.D  
Acq: 14 Dec 2022 10:59 am

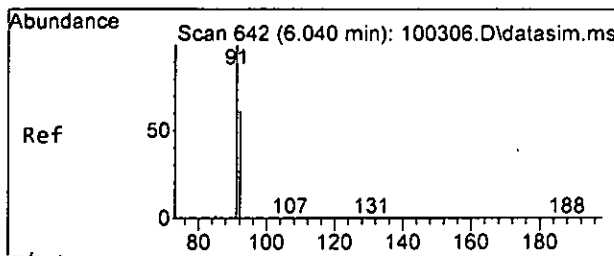
Tgt Ion: 78 Resp: 84214  
Ion Ratio Lower Upper  
78 100  
52 19.8 0.0 49.9



#32  
Trichloroethene  
Concen: 4.568 ppb  
RT: 4.93 min Scan# 516  
Delta R.T. -0.000 min  
Lab File: 121417.D  
Acq: 14 Dec 2022 10:59 am

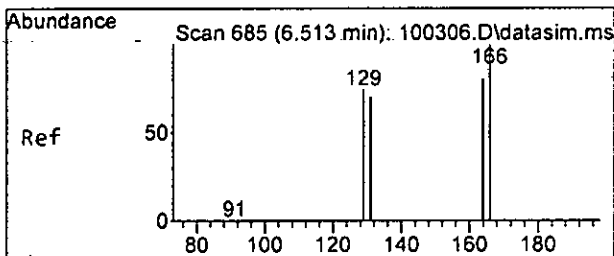
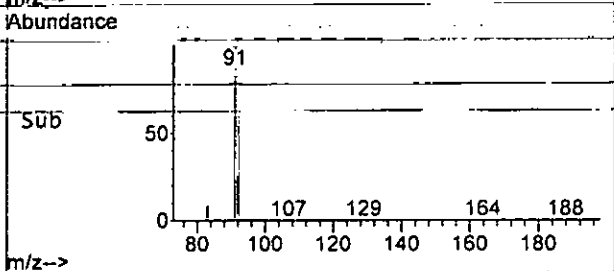
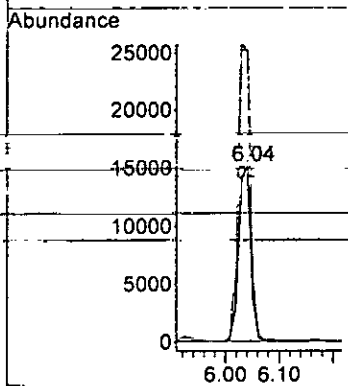
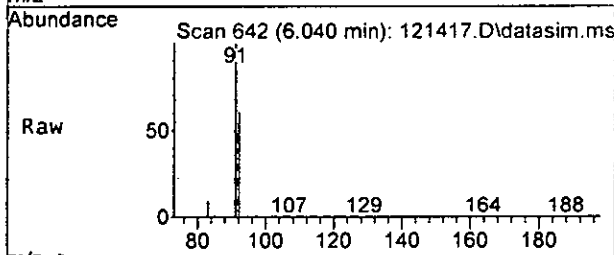
Tgt Ion: 95 Resp: 6727  
Ion Ratio Lower Upper  
95 100  
97 60.0 30.5 90.5  
130 88.2 60.4 120.4  
132 76.1 48.0 108.0





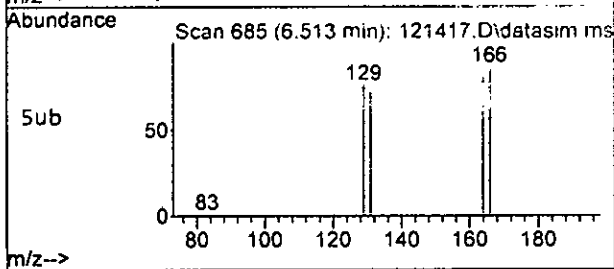
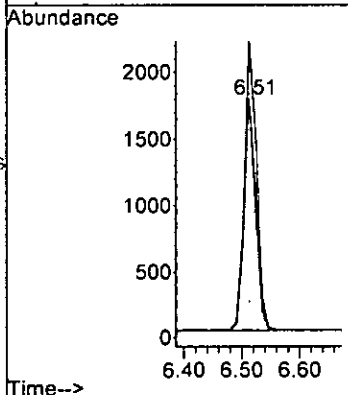
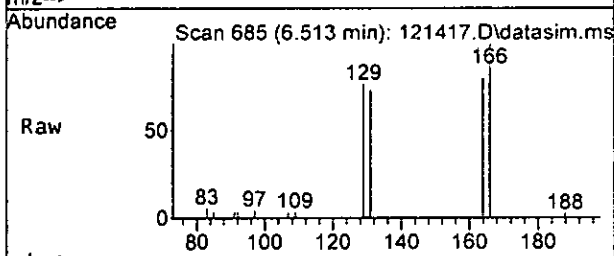
#40  
 Toluene  
 Concen: 7.602 ppb  
 RT: 6.04 min Scan# 642  
 Delta R.T. 0.011 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

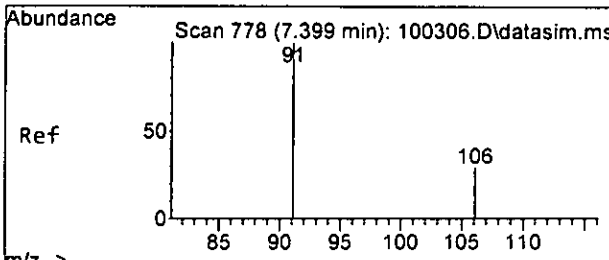
Tgt Ion: 92 Resp: 23948  
 Ion Ratio Lower Upper  
 92 100  
 91 166.3 135.6 195.6



#45  
 Tetrachloroethene  
 Concen: 1.929 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. 0.000 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

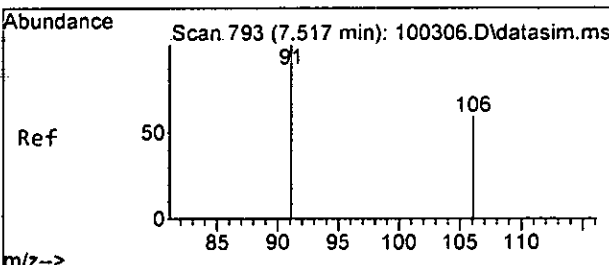
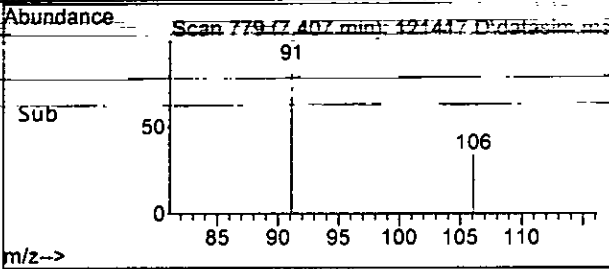
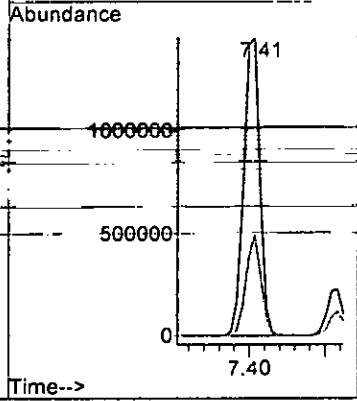
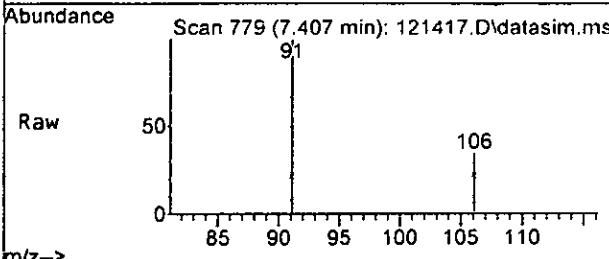
Tgt Ion: 164 Resp: 2425  
 Ion Ratio Lower Upper  
 164 100  
 129 95.5 62.6 122.6  
 131 90.2 58.6 118.6  
 166 125.0 94.4 154.4





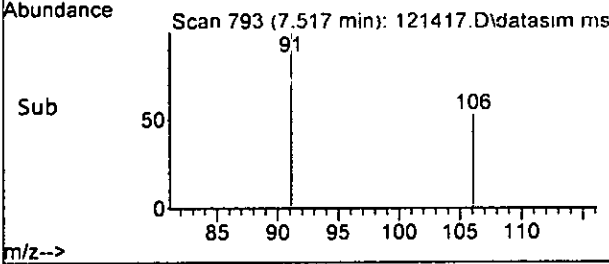
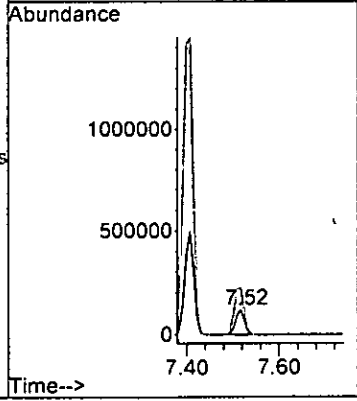
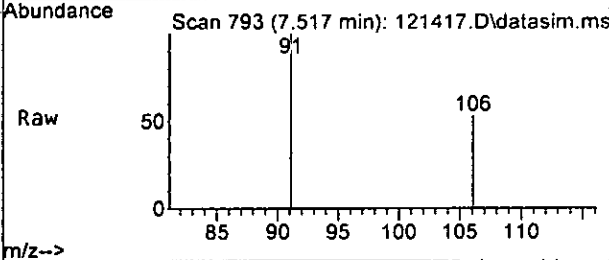
#49  
 Ethylbenzene  
 Concen: 361.794 ppb  
 RT: 7.41 min Scan# 779  
 Delta R.T. 0.008 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

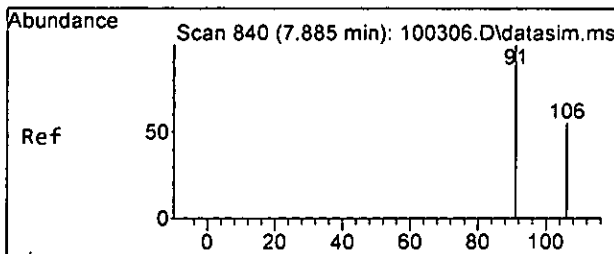
Tgt Ion: 91 Resp: 2141387  
 Ion Ratio Lower Upper  
 91 100  
 106 34.3 0.0 58.3



#51  
 m,p-Xylene  
 Concen: 70.963 ppb  
 RT: 7.52 min Scan# 793  
 Delta R.T. 0.008 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

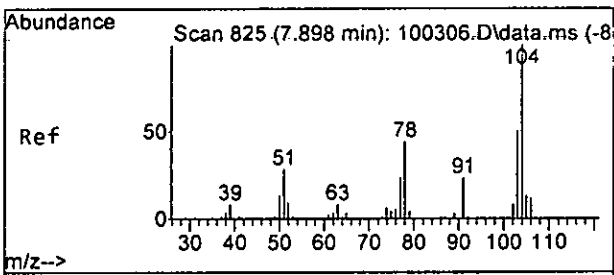
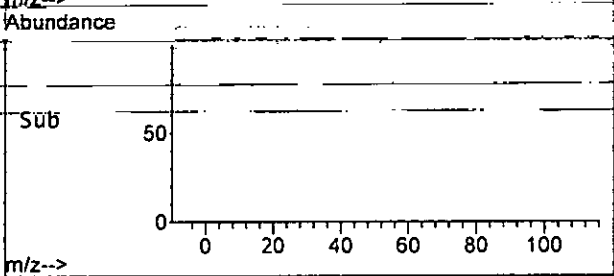
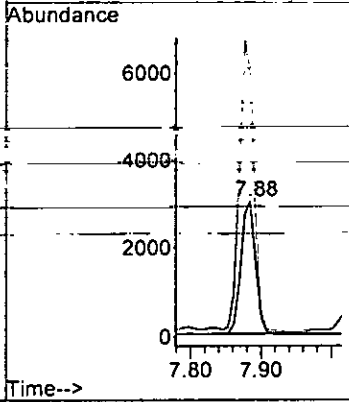
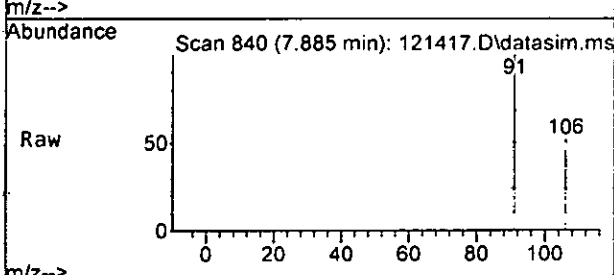
Tgt Ion: 106 Resp: 158307  
 Ion Ratio Lower Upper  
 106 100  
 91 190.4 147.7 207.7





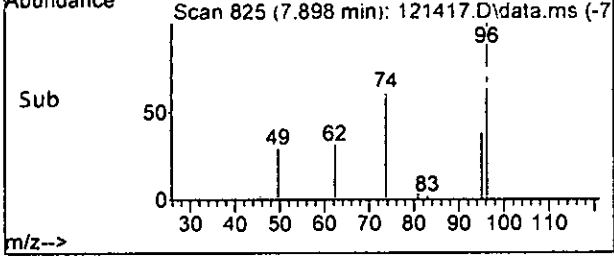
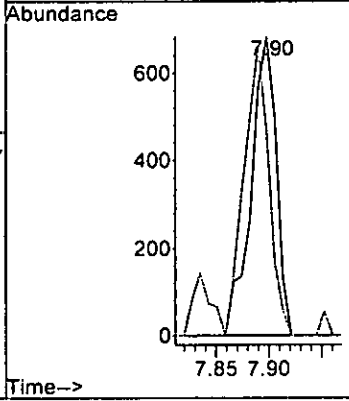
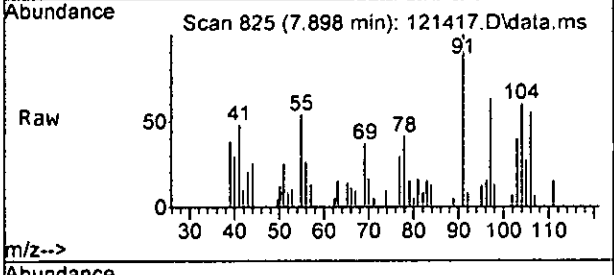
#52  
 o-Xylene  
 Concen: 1.939 ppb  
 RT: 7.88 min Scan# 840  
 Delta R.T. -0.000 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

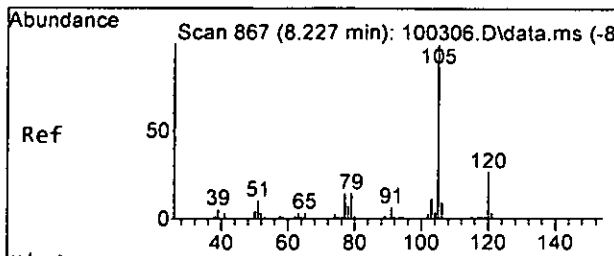
Tgt Ion: 106 Resp: 4238  
 Ion Ratio Lower Upper  
 106 100  
 91 191.3 160.3 220.3



#53  
 Styrene  
 Concen: 0.316 ppb  
 RT: 7.90 min Scan# 825  
 Delta R.T. -0.000 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

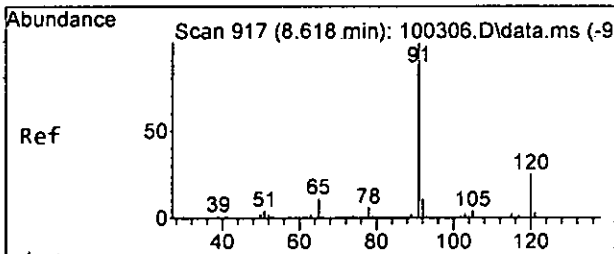
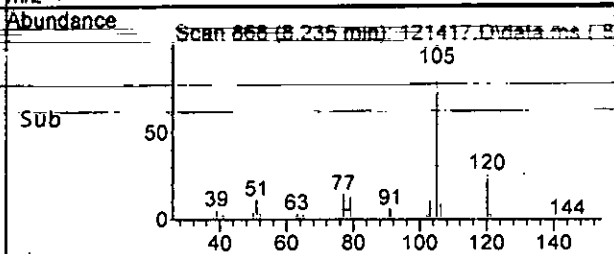
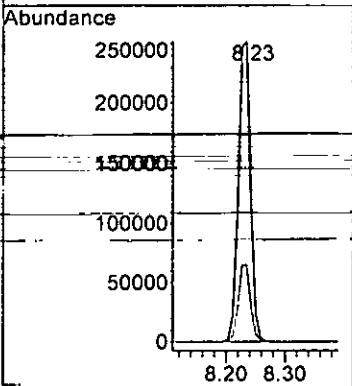
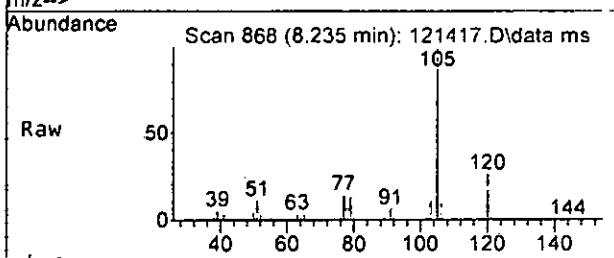
Tgt Ion: 104 Resp: 1130  
 Ion Ratio Lower Upper  
 104 100  
 78 68.0 13.9 73.9





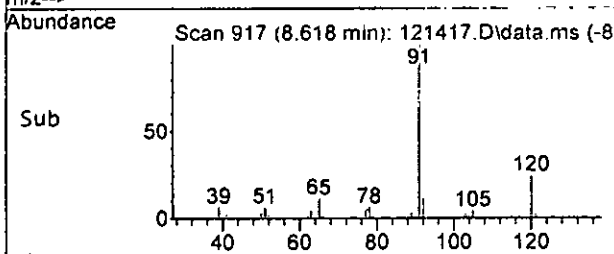
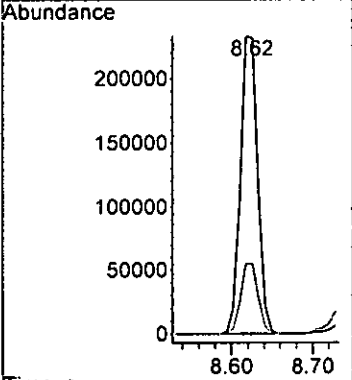
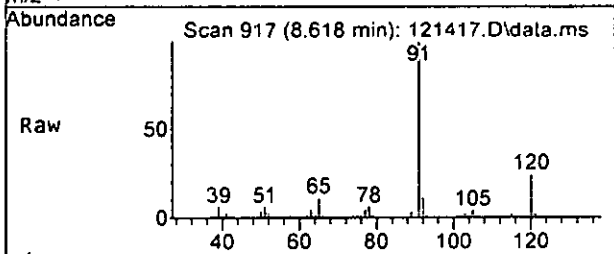
#54  
 Isopropylbenzene  
 Concen: 63.055 ppb  
 RT: 8.23 min Scan# 868  
 Delta R.T. 0.008 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

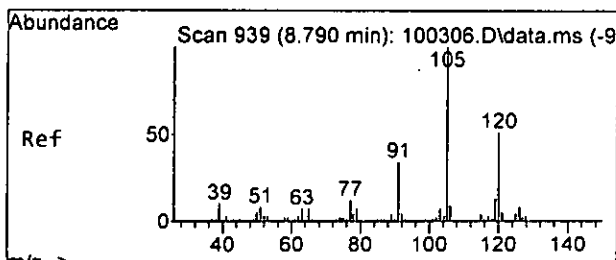
Tgt Ion: 105 Resp: 362231  
 Ion Ratio Lower Upper  
 105 100  
 120 26.0 0.0 56.7



#58  
 n-Propylbenzene  
 Concen: 51.537 ppb  
 RT: 8.62 min Scan# 917  
 Delta R.T. -0.008 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

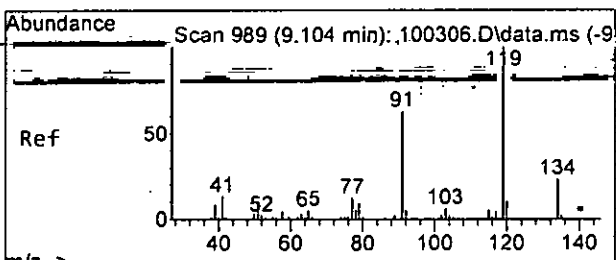
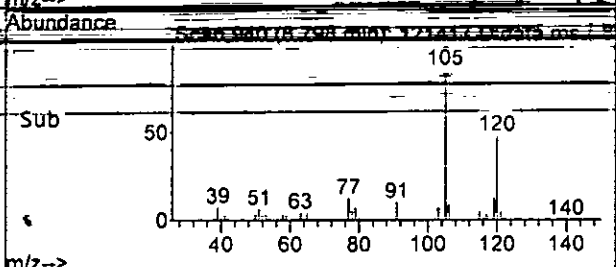
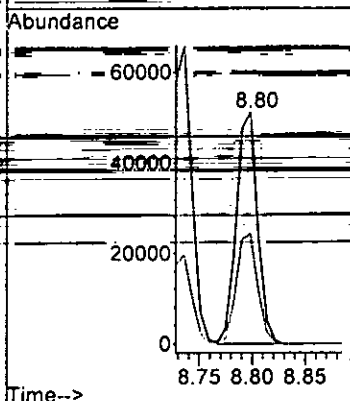
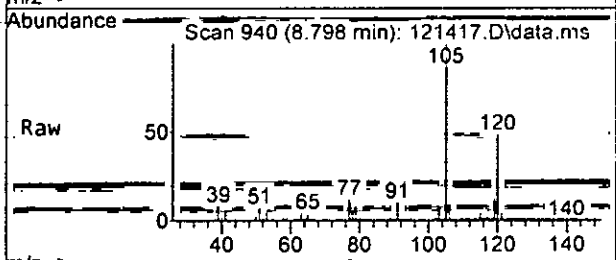
Tgt Ion: 91 Resp: 336099  
 Ion Ratio Lower Upper  
 91 100  
 120 23.6 0.0 51.7





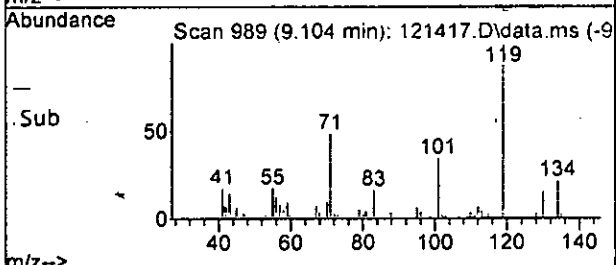
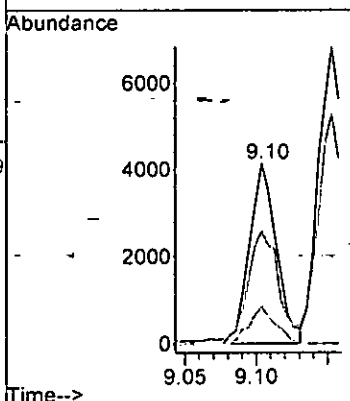
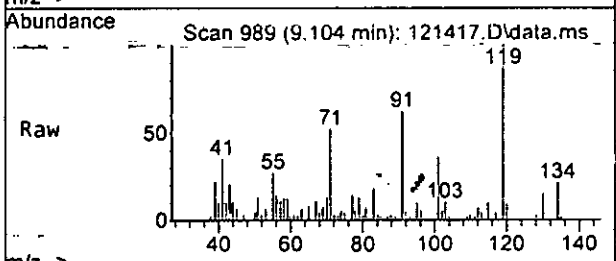
#60  
 1,3,5-Trimethylbenzene  
 Concen: 14.593 ppb  
 RT: 8.80 min Scan# 940  
 Delta R.T. 0.008 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

Tgt Ion: 105 Resp: 70847  
 Ion Ratio Lower Upper  
 105 100  
 120 47.8 16.5 76.5

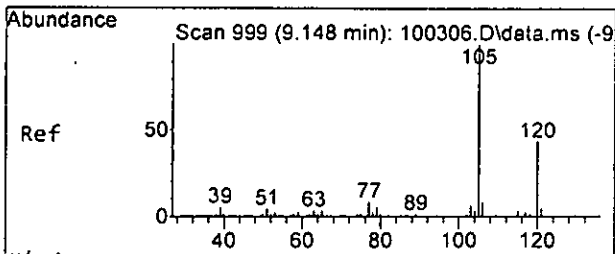


#65  
 tert-Butylbenzene  
 Concen: 1.268 ppb  
 RT: 9.10 min Scan# 989  
 Delta R.T. -0.000 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

Tgt Ion: 119 Resp: 5394  
 Ion Ratio Lower Upper  
 119 100  
 91 60.3 36.1 96.1  
 134 20.8 0.0 54.0

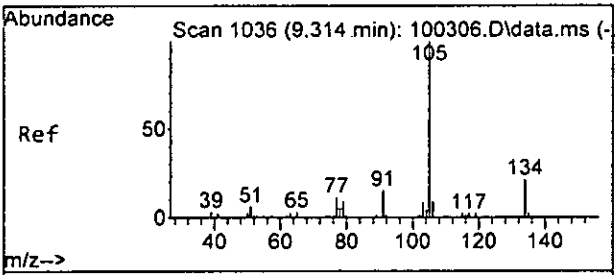
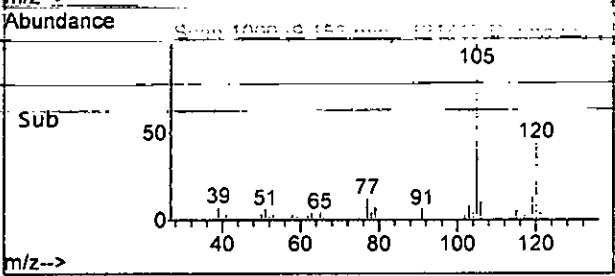
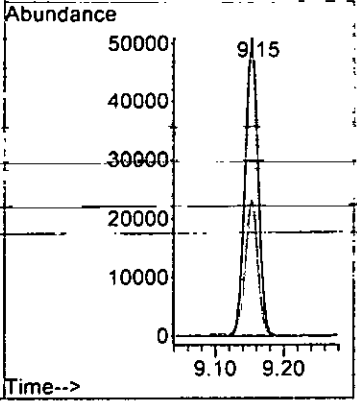
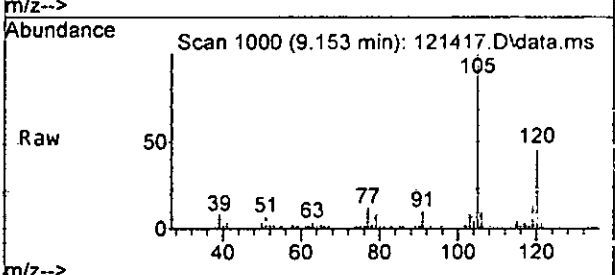






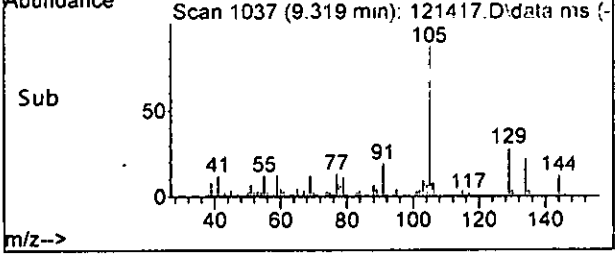
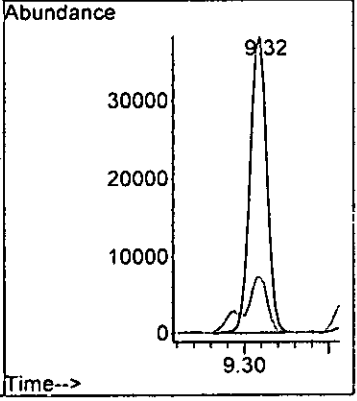
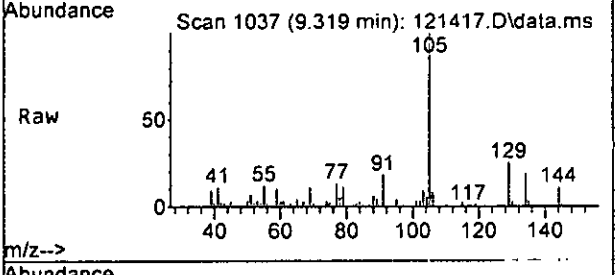
#66  
 1,2,4-Trimethylbenzene  
 Concen: 13.490 ppb  
 RT: 9.15 min Scan# 1000  
 Delta R.T. -0.000 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

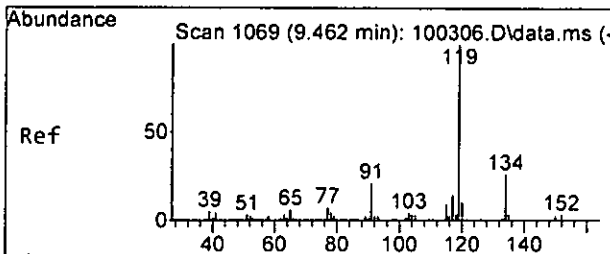
Tgt Ion: 105 Resp: 66390  
 Ion Ratio Lower Upper  
 105 100  
 120 45.7 13.6 73.6



#67  
 sec-Butylbenzene  
 Concen: 8.639 ppb  
 RT: 9.32 min Scan# 1037  
 Delta R.T. 0.005 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

Tgt Ion: 105 Resp: 53279  
 Ion Ratio Lower Upper  
 105 100  
 134 19.3 0.0 49.2

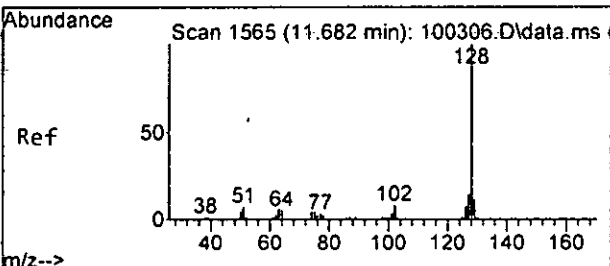
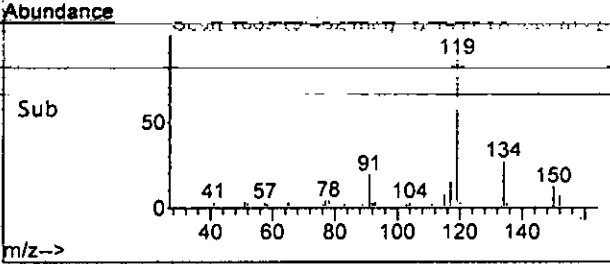
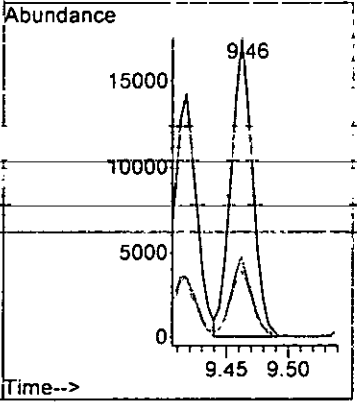
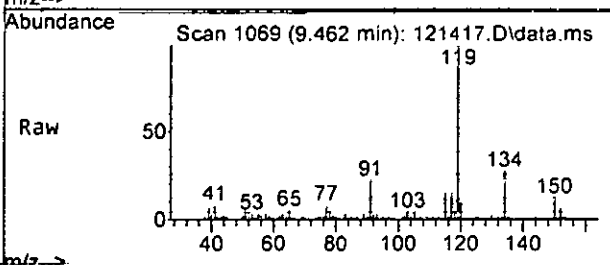




#68  
 p-Isopropyltoluene  
 Concen: 3.982 ppb  
 RT: 9.46 min Scan# 1069  
 Delta R.T. -0.000 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

Tgt Ion: 119 Resp: 21145

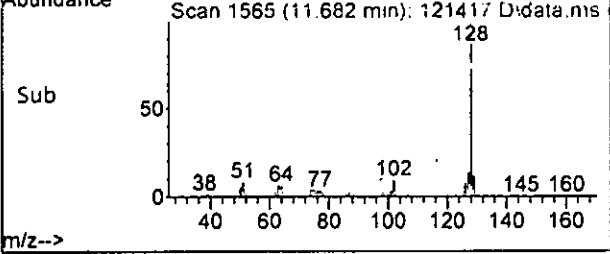
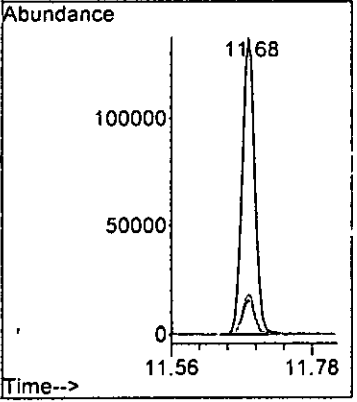
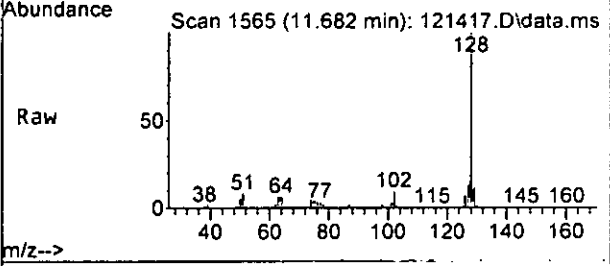
Ion	Ratio	Lower	Upper
119	100		
134	27.3	0.0	54.6
91	22.0	0.0	53.2



#75  
 Naphthalene  
 Concen: 37.677 ppb  
 RT: 11.68 min Scan# 1565  
 Delta R.T. 0.001 min  
 Lab File: 121417.D  
 Acq: 14 Dec 2022 10:59 am

Tgt Ion: 128 Resp: 194471

Ion	Ratio	Lower	Upper
128	100		
129	11.4	0.0	41.9
127	13.2	0.0	43.8



Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	46669	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	36732	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19875	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	12553	10.194	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	101.90%	
30) 1,2-Dichloroethane-d4	4.36	102	2651	9.415	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	94.20%	
35) Toluene-d8	5.98	98	46132	10.296	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	103.00%	
57) 4-Bromofluorobenzene	8.38	95	16542	9.858	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	98.60%	
<b>Target Compounds</b>						
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.23	50	1469	N.D.		
6] Vinyl chloride	1.30	62	2373m	0.695	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	0.00		0	N.D.		
11) Acetone	2.27	58	507	2.918	ppb	# 1
12] 1,1-Dichloroethene	2.20	96	64	0.057	ppb	98
13) Hexane	3.05	57	83607	41.303	ppb	96
14) Methylene chloride	2.61	84	3174	2.528	ppb	# 67
15) t-Butyl alcohol (TBA)	2.75	59	755	3.503	ppb	55
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17] trans-1,2-Dichloroethene	2.83	96	1940	1.527	ppb	99
18) Diisopropyl ether (DIPE)	0.00		0	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.	d	
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.66	77	56	N.D.		
22] cis-1,2-Dichloroethene	3.67	96	42728	31.970	ppb	93
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d	
27) 1,1,1-Trichloroethane	0.00		0	N.D.	d	
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.		
31] Benzene	4.39	78	84214	18.063	ppb	100
32] Trichloroethene	4.93	95	6727	4.568	ppb	98
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	5.31	93	66	N.D.		

Data Path : Y:\Proc\_GCM511\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCM511

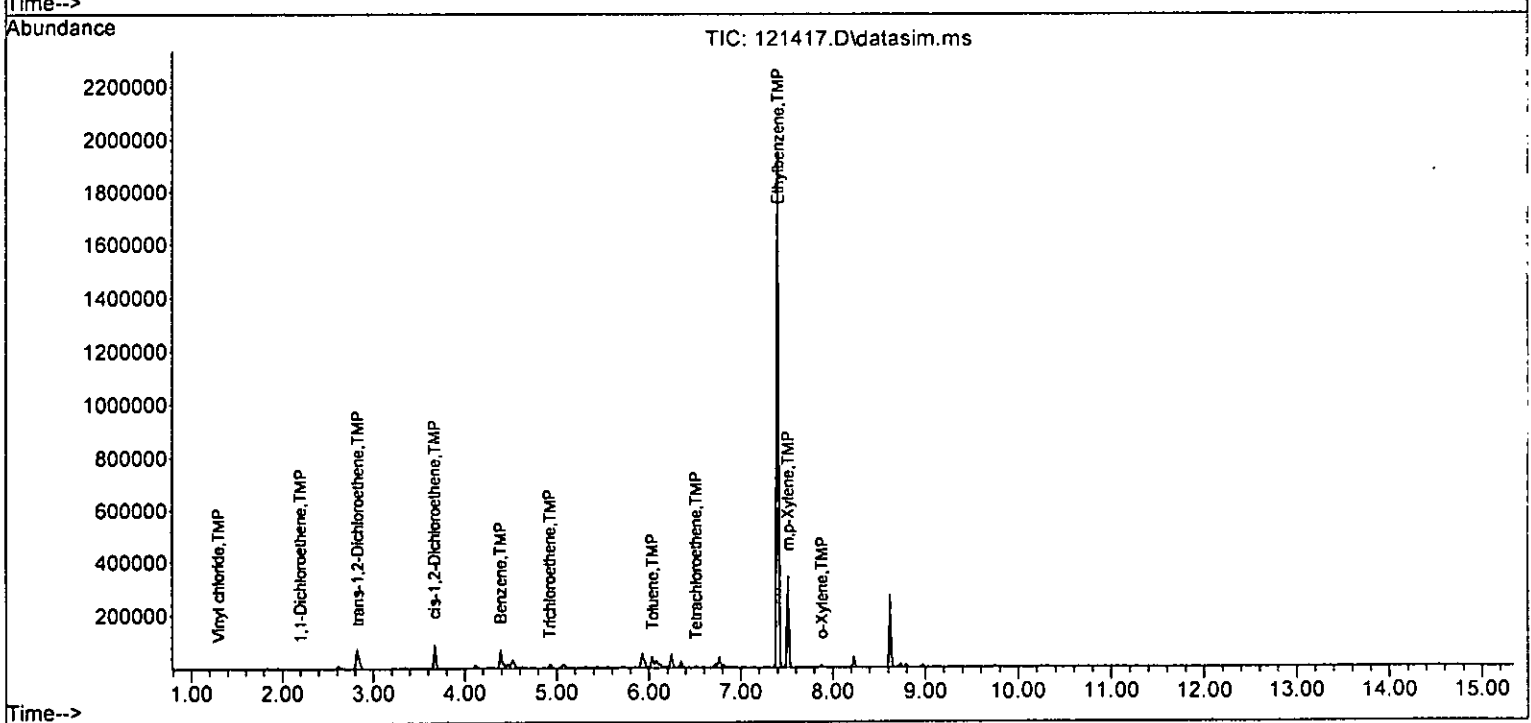
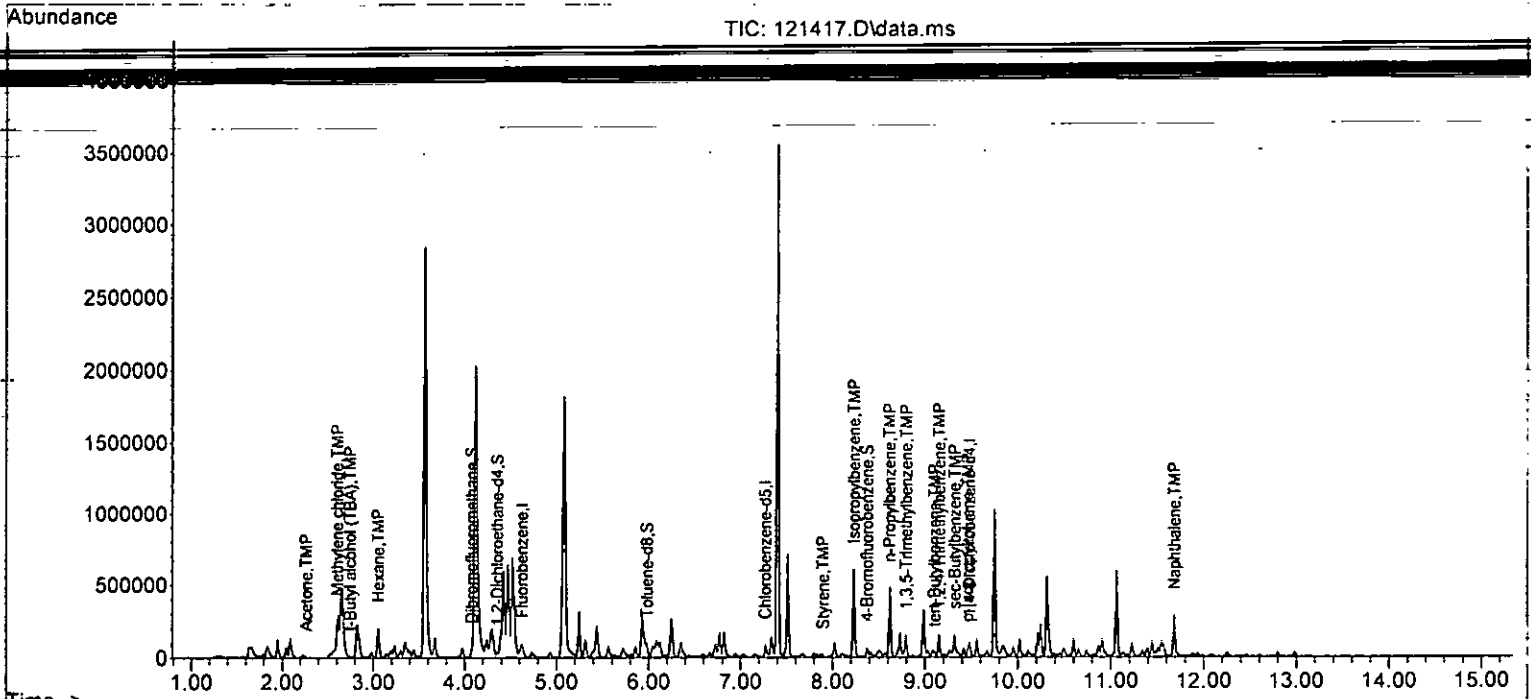
Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.		
40] Toluene	6.04	92	23948	7.602	ppb	100
41) trans-1,3-Dichloropropene	0.00		0	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.	d	
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.		
45] Tetrachloroethene	6.51	164	2425	1.929	ppb	98
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	d	
48) Chlorobenzene	7.30	112	61	N.D.		
49] Ethylbenzene	7.41	91	2141387	361.794	ppb	89
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51] m,p-Xylene	7.52	106	158307	70.963	ppb	91
52] o-Xylene	7.88	106	4238	1.939	ppb	99
53) Styrene	7.90	104	1130	0.316	ppb	63
54) Isopropylbenzene	8.23	105	362231	63.055	ppb	99
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	8.62	91	336099	51.537	ppb	96
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	8.80	105	70847	14.593	ppb	98
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	9.10	119	5394	1.268	ppb	93
66) 1,2,4-Trimethylbenzene	9.15	105	66390	13.490	ppb	97
67) sec-Butylbenzene	9.32	105	53279	8.639	ppb	100
68) p-Isopropyltoluene	9.46	119	21145	3.982	ppb	96
69) 1,3-Dichlorobenzene	9.43	146	50	N.D.		
70) 1,4-Dichlorobenzene	9.43	146	50	N.D.		
71) 1,2-Dichlorobenzene	9.87	146	61	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	11.68	128	194471	37.677	ppb	99
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121417.D  
 Acq On : 14 Dec 2022 10:59 am  
 Operator : LM  
 Sample : 212083-07 rr  
 Misc : water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:41 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



F&B Project 212113

# Chain of Custody, Shipping & Receiving Documents, Sample Condition Checklist

Chain of Custody Record & Laboratory Analysis Request


12/07/22

VW1

Laboratory Number: 212113  
 Friedman and Bruya  
 Date: 12/7/2022  
 Project Name: Carson Cleaners Remedial Investigation  
 Project Number: 212280-01.01  
 Project Manager: Gavin Casson / Jennifer Marsala  
 Phone Number: 206-287-9130  
 Shipment Method: Drop Off

No. of Containers  
 CVOCs EPA Method 8260C

Test Parameters  
4795  
518  
520  
521  
522  
523  
524  
525

Comments/Preservation  


Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters	Comments/Preservation
1	TB - 2072 <del>1207</del>	12/7/2022	H2O	2 X		
2	BP-MW-8-GW- <del>20</del> <u>55-17-7-72</u>	12/7/2022	H2O	3 X		
3	BP-MW-27-GW- 20721707	12/7/2022	H2O	3 X		
4	BP-MW-28-GW- 20721707	12/7/2022	H2O	3 X		
5	BP-MW-29-GW- <del>55-17-7-72</del> <u>42112022</u>	12/7/2022	H2O	3 X		
6	MW - 25 - GW - 20721707	12-7-22	H2O	3 X		
7	BP- F0-27-GW - 20721707	12-7-22	H2O	3 X		
8						
9						
10						
11						
12						
13						
14						
15						

Notes: See QAPP for analytes and methods  
 Short-hold time on CVOCs

Relinquished By: Stephen Smith Company: Anchor OEA, LLC  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: 12-7-22/1755  
 Relinquished By: \_\_\_\_\_ Company: \_\_\_\_\_  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: [Signature] Company: TRG  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: 12/7/22/1755  
 Received By: \_\_\_\_\_ Company: \_\_\_\_\_  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples received at 300

NP

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.



**SAMPLE CONDITION UPON RECEIPT CHECKLIST**

PROJECT # 212/13 CLIENT Anchor QET INITIALS/DATE: 12/07/12

If custody seals are present on cooler, are they intact?  NA  YES  NO

Cooler/Sample temperature 3 °C

Were samples received on ice/cold packs?  YES  NO

How did samples arrive?  
 Over the Counter  
 Picked up by F&BI  
 FedEx/UPS/GSO

Number of days samples have been sitting prior to receipt at laboratory 0 days

Is there a Chain-of-Custody\* (COC)?  YES  NO  
\*or other representative documents, letters, and/or shipping memos

Are the samples clearly identified? (explain "no" answer below)  YES  NO

Is the following information provided on the COC\* ? (explain "no" answer below)

Sample ID's	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	# of Containers	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Date Sampled	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Relinquished	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Time Sampled	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Requested analysis	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below)  YES  NO

Were appropriate sample containers used?  YES  NO  Unknown

If custody seals are present on samples, are they intact?  NA  YES  NO

Are samples requiring no headspace, headspace free?  NA  YES  NO

Air Samples: Were any additional canisters received?  NA  YES  NO

If Yes, number of unused 1L canisters \_\_\_\_\_  
 number of unused 6L canisters \_\_\_\_\_

Explain "no" items from above (use the back if needed)

# Laboratory Worksheets

# VOC EXTRACTION WORKSHEET (WATER)

HT \_\_\_\_\_

Project #: 212113  
 Client: ACQ  
 QC Batch ID: 2859  
 Samples checked against COC ✓

Date Received: 12/7/22  
 Date Extracted: DEC 8 '22 AM 9:51  
 Date Analyzed: \_\_\_\_\_  
 GCMS  4  11  13, Seq. Date   

<b>Analysis Method:</b> <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> 8260 SIM <input type="checkbox"/> 524.2 SIM <input type="checkbox"/> Other _____	<b>Requested Analytes:</b> <input type="checkbox"/> 8260 Normal List <input type="checkbox"/> MTBE <input type="checkbox"/> eVOCs <input checked="" type="checkbox"/> PCE/Daughters	<b>Reporting Units:</b> <input checked="" type="checkbox"/> µg/L (ppb) <input type="checkbox"/> Other _____	<b>Extraction Method:</b> <input checked="" type="checkbox"/> 5030
Due Date: <u>12/15/22</u>		see attached RLs & compounds	
<input type="checkbox"/> ve's not Acceptable <input type="checkbox"/> Dilutions Not Acceptable for Non-Detects <input type="checkbox"/> Need EDF			

Sample ID	pH	Sample Volume (mL)	Final Volume (mL)	Dilutions		Dilution Factor	Foamy Sample	Observations
				Amt. Extract	Amt. Solvent			
01 A	6.2				mL	FS		screen
02						FS		
03						FS		
04				8.6 mL		1/5		
05						FS		
m 12/19								
-04B	6.2					FS		re for
-05A								ca VC
m 12/14								
-05C	12/15/22							*only for VC
01B	12/16/22							VC

Initials \_\_\_\_\_

	✓	Volume	Conc. (ppm)	Compound(s)	Lot #	Initials	Date
Solvent		NA	NA	DI Water			
Other							
Internal Standard(s)/ Surrogate(s)		100 µl	250	Surrogate mix			
	<input checked="" type="checkbox"/>	10 ppm Surr/IS Mix spiked at instr. to yield 10 ppb			67148	m	12/14
	<input type="checkbox"/>	25 ppm Surr/IS Mix spiked at instr. to yield 5 ppb					

Project Leader Initials: ML NOTES: \_\_\_\_\_

Calculated by m 12/15 Reviewed by YA 12/15/22 draft

# BATCH ORGANIC EXTRACTION WORKSHEET

Date Extracted: 12.8.22

Technician: W

QA Batch: **02-2859**

**Matrix**

- Soil  
 Water  
 Product  
 Wipe  
 Other \_\_\_\_\_

**Solvent**

- Methylene Chloride  
 Acetone  
 Methanol  
 Hexane  
 Other \_\_\_\_\_

**Analysis**

- Diesel  
 Gas/BTEX  
 HCID  
 8270 SIM  
 8270  
 8260  
 PCB  
 Organic Lead  
 Methamphetamine  
 Other \_\_\_\_\_

Clean Up:  Florsil (FL)  Copper (Cu)  
 Silica  Filtration  H<sub>2</sub>SO<sub>4</sub>  Other

Sample ID	pH Waters only	Sample Weight/ Volume	Extraction Solvent Volume	Final Volume	Dilutions		Clean Up (Circle)			Observations
					Amt. Extract	Amt. Solvent	FL	Cu	H <sub>2</sub> SO <sub>4</sub>	
LCS										
LCSB										
MS										
104-01 MS										
ms 12/8										
Initials										

**Samples in Batch**

212104-01	1 -05	1 -04	-03	-07
1 -02	212113-01	1 -05	-04	
1 -03	1 -02	212083-01	-05	
1 -04	1 -03	20	-06	

**Matrix Spikes:**

8.6 µL of SC ppm of 8260 MS/LCS/MS  
Amount Concentration Analytes and Solvent

Date/Initials 12/10/18

**Matrix Spikes:**

\_\_\_\_ µL of \_\_\_\_\_ ppm of \_\_\_\_\_  
Amount Concentration Analytes and Solvent

Lot # \_\_\_\_\_

**Surrogates:**

5 µL of LU ppm of 8260 F51501  
Amount Concentration Analytes and Solvent

Lot # 67.148

**Internal Standards:**

\_\_\_\_ µL of \_\_\_\_\_ ppm of \_\_\_\_\_  
Amount Concentration Analytes and Solvent

Lot # \_\_\_\_\_

**Notes:**

**EPA 8260D**  
**MDLs**

Reported MDL Data and Calculations

Analyst fill in all below (attach extraction worksheet(s))

Analysis: 8260 Standard(s) spiked: 8260 Cal Std. (50/250 ppm)  
 Matrix: Water Volume spiked: 4.3 uL (60-190a) and 8.6 uL (60-190b), 43 uL (60-190c)  
 Instrument ID: GCMS #11 Date(s) Extracted: 05/04/21, 05/26/21, 08/30/21, 08/31/21, 12/08/21, 12/01/21  
 Reporting Units: ug/L Date(s) Analyzed: 05/04/21, 05/26/21, 08/30/21, 08/31/21, 12/08/21, 12/01/21  
 Date Calculated: 6/3/2021, 09/01/22, 09/24/21, 12/09/21, 12/10/21, 02/22/22  
 Calculation Analyst: JCM, WE, AS

Analyte	(StdDev*2.998)	(2*MDL)	(5*MDL)	Std Dev	Mean	Spike Level	% Rec.
	MDL	PQL	PQL				
Ethanol							
Dichlorodifluoromethane	0.246	0.492	1.230	0.082	0.264	0.200	132
Chloromethane	1.615	3.230	8.074	0.539	5.331	5.000	107
Vinyl chloride	0.018	0.036	0.090	0.006	0.052	0.050	105
Bromomethane	3.116	6.232	15.579	1.039	5.948	5.000	119
Chloroethane	0.143	0.286	0.715	0.048	0.270	0.200	135
Trichlorofluoromethane	0.187	0.374	0.936	0.062	0.223	0.200	112
2-Propanol							
Acetone	4.651	9.301	23.254	1.551	12.835	10.000	128
1,1-Dichloroethene	0.034	0.069	0.172	0.011	0.063	0.050	126
Hexane	0.124	0.248	0.620	0.041	0.244	0.200	122
Methylene chloride	2.640	5.279	13.198	0.880	5.052	5.000	101
t-Butyl alcohol (TBA)	7.869	15.739	39.347	2.625	25.924	25.000	104
Methyl t-butyl ether (MTBE)	0.004	0.009	0.022	0.001	0.052	0.050	105
trans-1,2-Dichloroethene	0.035	0.069	0.173	0.012	0.215	0.200	107
Diisopropyl ether (DIPE)	0.049	0.099	0.247	0.017	0.203	0.200	101
1,1-Dichloroethane	0.006	0.012	0.030	0.002	0.024	0.020	121
Ethyl t-butyl ether (ETBE)	0.070	0.141	0.352	0.023	0.204	0.200	102
2,2-Dichloropropane	0.170	0.340	0.849	0.057	0.192	0.200	96
cis-1,2-Dichloroethene	0.016	0.031	0.078	0.005	0.059	0.050	117
Chloroform	0.050	0.100	0.251	0.017	0.214	0.200	107
2-Butanone (MEK)	2.997	5.994	14.985	1.000	11.380	10.000	114
t-Amyl methyl ether (TAME)	0.061	0.123	0.307	0.020	0.201	0.200	101
1,2-Dichloroethane (EDC)	0.051	0.101	0.253	0.017	0.218	0.200	109
1,1,1-Trichloroethane	0.007	0.014	0.035	0.002	0.025	0.020	123
1,1-Dichloropropene	0.122	0.244	0.609	0.041	0.208	0.200	104
Carbon tetrachloride	0.106	0.213	0.531	0.035	0.203	0.200	101
Benzene	0.017	0.034	0.086	0.006	0.027	0.020	137
Trichloroethene	0.045	0.089	0.223	0.015	0.064	0.050	128
1,2-Dichloropropane	0.144	0.288	0.721	0.048	0.213	0.200	107
Bromodichloromethane	0.092	0.184	0.461	0.031	0.202	0.200	101
Dibromomethane	0.090	0.179	0.448	0.030	0.220	0.200	110
4-Methyl-2-pentanone	0.474	0.948	2.371	0.158	0.902	1.000	90
cis-1,3-Dichloropropene	0.095	0.191	0.477	0.032	0.190	0.200	95
Toluene	0.040	0.081	0.201	0.013	0.025	0.020	123
trans-1,3-Dichloropropene	0.123	0.247	0.617	0.041	0.202	0.200	101
1,1,2-Trichloroethane	0.087	0.175	0.437	0.029	0.224	0.200	112
2-Hexanone	2.216	4.433	11.082	0.739	12.030	10.000	120
1,3-Dichloropropane	0.083	0.166	0.416	0.028	0.213	0.200	106
Tetrachloroethene	0.077	0.154	0.385	0.026	0.065	0.050	129
Dibromochloromethane	0.130	0.259	0.648	0.043	0.212	0.200	106
1,2-Dibromoethane (EDB)	0.045	0.089	0.223	0.015	0.213	0.200	106
Chlorobenzene	0.052	0.104	0.259	0.017	0.224	0.200	112
Ethylbenzene	0.025	0.049	0.123	0.008	0.026	0.020	128
1,1,1,2-Tetrachloroethane	0.094	0.188	0.470	0.031	0.212	0.200	106
m,p-Xylene	0.048	0.096	0.241	0.016	0.053	0.040	132
o-Xylene	0.019	0.039	0.097	0.006	0.026	0.020	128
Styrene	0.071	0.142	0.354	0.024	0.203	0.200	101
Isopropylbenzene	0.071	0.141	0.353	0.024	0.196	0.200	98
Bromoform	0.125	0.251	0.627	0.042	0.202	0.200	101
n-Propylbenzene	0.094	0.189	0.472	0.031	0.219	0.200	110
Bromobenzene	0.076	0.153	0.382	0.025	0.233	0.200	116
1,3,5-Trimethylbenzene	0.080	0.160	0.399	0.027	0.192	0.200	96
1,1,1,2,2-Tetrachloroethane	0.095	0.191	0.477	0.032	0.218	0.200	109
1,2,3-Trichloropropane	0.068	0.136	0.340	0.023	0.253	0.200	126
2-Chlorotoluene	0.096	0.193	0.482	0.032	0.227	0.200	113
4-Chlorotoluene	0.082	0.164	0.409	0.027	0.219	0.200	109
tert-Butylbenzene	0.076	0.153	0.382	0.025	0.205	0.200	103
1,2,4-Trimethylbenzene	0.074	0.148	0.370	0.025	0.187	0.200	94
sec-Butylbenzene	0.090	0.180	0.449	0.030	0.195	0.200	98
p-Isopropyltoluene	0.081	0.161	0.404	0.027	0.199	0.200	100
1,3-Dichlorobenzene	0.099	0.197	0.493	0.033	0.224	0.200	112
1,4-Dichlorobenzene	0.088	0.176	0.440	0.029	0.238	0.200	119
1,2-Dichlorobenzene	0.094	0.189	0.472	0.032	0.219	0.200	110
1,2-Dibromo-3-chloropropane	0.595	1.190	2.974	0.198	4.792	5.000	96
1,2,4-Trichlorobenzene	0.134	0.269	0.672	0.045	0.219	0.200	110
Hexachlorobutadiene	0.158	0.315	0.788	0.053	0.227	0.200	113
Naphthalene	0.195	0.390	0.974	0.065	0.237	0.200	119
1,2,3-Trichlorobenzene	0.114	0.228	0.569	0.038	0.208	0.200	104

**Reported MDL Data and Calculations**

Analyst fill in all below (attach extraction worksheet(s))

Analysis: 8260 Standard(s) spiked: 63-4A, 63-4B, 63-4C, 63-26A, 63-26B, 63-26C  
 Matrix: Water Volume spiked: 4.3 uL (A), 8.6 uL (B), 17.2/43 uL (C)  
 Instrument ID: GCMS #13 Date(s) Extracted: 05/27/21, 05/28/21, 06/07/21, 06/08/21, 12/02/21, 12/08/21  
 Reporting Units: ug/L Date(s) Analyzed: 05/27/21, 05/28/21, 06/07/21, 06/08/21, 12/02/21, 12/08/21  
 Date Calculated: 06/01/21, 06/09/21, 12/07/21, 12/10/21, 4/6/2022, 04/11/22  
 Calculation Analyst: JCM, WE, AEN, AS

Analyte	(StdDev*2.998)	(2*MDL)	(5*MDL)	Std Dev	Mean	Spike Level	% Rec.
	MDL	PQL	PQL				
Ethanol							
Dichlorodifluoromethane	0.152	0.305	0.762	0.051	0.200	0.2	100
Chloromethane	1.096	2.191	5.478	0.365	5.441	5	109
Vinyl chloride	0.017	0.035	0.087	0.006	0.025	0.02	124
Bromomethane	1.853	3.707	9.267	0.618	6.097	5	122
Chloroethane	0.220	0.439	1.098	0.073	0.246	0.2	123
Trichlorofluoromethane	0.063	0.126	0.316	0.021	0.245	0.2	122
2-Propanol							
Acetone	4.490	8.980	22.450	1.498	12.426	10	124
1,1-Dichloroethene	0.015	0.031	0.077	0.005	0.056	0.05	112
Hexane	0.197	0.395	0.986	0.066	0.192	0.2	96
Methylene chloride	1.769	3.539	8.847	0.590	6.045	5	121
t-Butyl alcohol (TBA)	7.967	15.934	39.836	2.657	24.852	25	99
Methyl t-butyl ether (MTBE)	0.054	0.109	0.272	0.018	0.061	0.05	121
trans-1,2-Dichloroethene	0.021	0.043	0.106	0.007	0.058	0.05	116
Diisopropyl ether (DIPE)	0.039	0.078	0.195	0.013	0.201	0.2	100
1,1-Dichloroethane	0.013	0.026	0.066	0.004	0.054	0.05	108
Ethyl t-butyl ether (ETBE)	0.028	0.057	0.142	0.009	0.198	0.2	99
2,2-Dichloropropane	0.188	0.376	0.939	0.063	0.255	0.2	128
cis-1,2-Dichloroethene	0.015	0.029	0.073	0.005	0.057	0.05	114
Chloroform	0.049	0.099	0.246	0.016	0.215	0.2	107
2-Butanone (MEK)	1.862	3.723	9.308	0.621	10.875	10	109
t-Amyl methyl ether (TAME)	0.049	0.098	0.245	0.016	0.210	0.2	105
1,2-Dichloroethane (EDC)	0.097	0.194	0.485	0.032	0.229	0.2	114
1,1,1-Trichloroethane	0.012	0.025	0.062	0.004	0.054	0.05	109
1,1-Dichloropropene	0.060	0.120	0.299	0.020	0.199	0.2	100
Carbon tetrachloride	0.110	0.220	0.550	0.037	0.199	0.2	99
Benzene	0.018	0.036	0.089	0.006	0.025	0.02	124
Trichloroethene	0.032	0.064	0.159	0.011	0.059	0.05	117
1,2-Dichloropropane	0.133	0.266	0.666	0.044	0.218	0.2	109
Bromodichloromethane	0.061	0.121	0.303	0.020	0.215	0.2	108
Dibromomethane	0.043	0.087	0.216	0.014	0.229	0.2	114
4-Methyl-2-pentanone	1.975	3.951	9.877	0.659	25.044	25	100
cis-1,3-Dichloropropene	0.060	0.119	0.298	0.020	0.214	0.2	107
Toluene	0.018	0.035	0.088	0.006	0.060	0.05	119
trans-1,3-Dichloropropene	0.088	0.176	0.441	0.029	0.213	0.2	106
1,1,2-Trichloroethane	0.118	0.237	0.592	0.040	0.230	0.2	115
2-Hexanone	1.094	2.188	5.470	0.365	11.949	10	119
1,3-Dichloropropane	0.059	0.118	0.296	0.020	0.213	0.2	107
Tetrachloroethene	0.023	0.046	0.114	0.008	0.064	0.05	127
Dibromochloromethane	0.051	0.102	0.256	0.017	0.212	0.2	106
1,2-Dibromoethane (EDB)	0.022	0.043	0.108	0.007	0.059	0.05	118
Chlorobenzene	0.042	0.085	0.212	0.014	0.221	0.2	110
Ethylbenzene	0.016	0.033	0.082	0.005	0.028	0.02	141
1,1,1,2-Tetrachloroethane	0.065	0.130	0.324	0.022	0.217	0.2	108
m,p-Xylene	0.030	0.060	0.149	0.010	0.056	0.04	141
o-Xylene	0.011	0.022	0.054	0.004	0.026	0.02	132
Styrene	0.048	0.095	0.239	0.016	0.192	0.2	96
Isopropylbenzene	0.011	0.023	0.057	0.004	0.200	0.2	100
Bromoform	0.091	0.183	0.457	0.030	0.219	0.2	110
n-Propylbenzene	0.027	0.054	0.135	0.009	0.207	0.2	103
Bromobenzene	0.057	0.114	0.286	0.019	0.211	0.2	106
1,3,5-Trimethylbenzene	0.017	0.034	0.084	0.006	0.205	0.2	103
1,1,2,2-Tetrachloroethane	0.062	0.123	0.308	0.021	0.222	0.2	111
1,2,3-Trichloropropane	0.111	0.223	0.556	0.037	0.242	0.2	121
2-Chlorotoluene	0.039	0.078	0.194	0.013	0.210	0.2	105
4-Chlorotoluene	0.033	0.065	0.163	0.011	0.207	0.2	103
tert-Butylbenzene	0.021	0.042	0.106	0.007	0.201	0.2	100
1,2,4-Trimethylbenzene	0.039	0.079	0.197	0.013	0.204	0.2	102
sec-Butylbenzene	0.031	0.062	0.156	0.010	0.205	0.2	103
p-Isopropyltoluene	0.042	0.084	0.210	0.014	0.195	0.2	97
1,3-Dichlorobenzene	0.052	0.104	0.261	0.017	0.217	0.2	108
1,4-Dichlorobenzene	0.040	0.079	0.198	0.013	0.223	0.2	112
1,2-Dichlorobenzene	0.038	0.077	0.191	0.013	0.212	0.2	106
1,2-Dibromo-3-chloropropane	0.999	1.997	4.994	0.333	4.836	5	97
1,2,4-Trichlorobenzene	0.053	0.105	0.263	0.018	0.218	0.2	109
Hexachlorobutadiene	0.115	0.230	0.576	0.038	0.224	0.2	112
Naphthalene	0.111	0.222	0.555	0.037	0.227	0.2	113
1,2,3-Trichlorobenzene	0.036	0.071	0.178	0.012	0.225	0.2	113

**EPA 8260D**  
**Sequence Tables**



Comment:

Operator: LM

Data Path: D:\GCMS13\GCMS13\_Data\11-30-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

B 1211

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	113001	VM080322	rinse
2)	Sample	100	113002	VM080322	rinse
3)	Sample	1	113003	VM080322	10 ppb 8260 CCV 68-04N
4)	Sample	2	113004	VM080322	02-2830 lcs
5)	Sample	3	113005	VM080322	02-2830 lcsd
6)	Sample	100	113006	VM080322	rinse
7)	Sample	4	113007	VM080322	02-2830 mb
8)	Sample	5	113008	VM080322	02-2829 mb 1/0.25
9)	Sample	6	113009	VM080322	211328-01
10)	Sample	7	113010	VM080322	211348-01
11)	Sample	8	113011	VM080322	211389-01
12)	Sample	9	113012	VM080322	211389-02
13)	Sample	10	113013	VM080322	211313-01
14)	Sample	11	113014	VM080322	211313-02 1/100
15)	Sample	12	113015	VM080322	211379-01 1/5
16)	Sample	13	113016	VM080322	211389-03
17)	Sample	100	113017	VM080322	rinse
18)	Sample	100	113018	VM080322	rinse
19)	Sample	14	113019	VM080322	211348-01 1/50
20)	Sample	100	113020	VM080322	rinse
21)	Sample	100	113021	VM080322	rinse
22)	Sample	15	113022	VM080322	10 ppb test
23)	Sample	100	113023	VM080322	50 ng BFB 67-156A
24)	Sample	100	113024	VM080322	rinse
25)	Sample	100	113025	VM080322	rinse
26)	Sample	100	113026	VM080322	rinse
27)	Sample	100	113027	VM080322	rinse
28)	Sample	100	113028	VM080322	rinse
29)	Sample	100	113029	VM080322	rinse
30)	Sample	16	113030	VM080322	0.02 ppb 8260 ICAL 68-4F
31)	Sample	17	113031	VM080322	0.04 ppb 8260 ICAL 68-4G
32)	Sample	18	113032	VM080322	0.1 ppb 8260 ICAL 68-4H
33)	Sample	19	113033	VM080322	0.2 ppb 8260 ICAL 68-4I
34)	Sample	20	113034	VM080322	0.5 ppb 8260 ICAL 68-4J
35)	Sample	21	113035	VM080322	1 ppb 8260 ICAL 68-4K
36)	Sample	22	113036	VM080322	2 ppb 8260 ICAL 68-4L
37)	Sample	23	113037	VM080322	5 ppb 8260 ICAL 68-4M
38)	Sample	24	113038	VM080322	10 ppb 8260 ICAL 68-4N
39)	Sample	25	113039	VM080322	20 ppb 8260 ICAL 68-4O
40)	Sample	26	113040	VM080322	50 ppb 8260 ICAL 68-4Q
41)	Sample	27	113041	VM080322	100 ppb 8260 ICAL 68-4S

Sequence Name: D:\GCMS13\sequence\11-30-22.sequence.xml

Comment:

Operator: LM

Data Path: D:\GCMS13\GCMS13\_Data\11-30-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

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42)	Sample	28	113042	VM080322	150 ppb	8260	ICAL	68-4T
43)	Sample	29	113043	VM080322	200 ppb	8260	ICAL	68-4U
44)	Sample	30	113044	VM080322	rinse			
45)	Sample	31	113045	VM080322	10 ppb	8260	SCV	68-7C
46)	Sample	100	113046	VM080322	rinse			
47)	Sample	100	113047	VM080322	rinse			
48)	Sample	100	113048	VM080322	rinse			
49)	Sample	100	113049	VM080322	rinse			

## Injection Log

Data Directory: Y:\Proc\_GCMS13\11-30-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 113001.D rinse	VM080322.M	100	1.000	30 Nov 2022 05:03 am
2) 113002.D rinse	VM080322.M	100	1.000	30 Nov 2022 05:26 am
3) 113003.D 10 ppb 8260 CCV 68.. soil/water	VM080322.M	1	1.000	30 Nov 2022 05:49 am
4) 113004.D 02-2830 lcs	VM080322.M water	2	1.000	30 Nov 2022 06:12 am
5) 113005.D 02-2830 lcsd	VM080322.M water	3	1.000	30 Nov 2022 06:36 am
6) 113006.D rinse	VM080322.M	100	1.000	30 Nov 2022 06:59 am
7) 113007.D 02-2830 mb	VM080322.M water	4	1.000	30 Nov 2022 07:22 am
8) 113008.D 02-2829 mb 1/0.25	VM080322.M water	5	1.000	30 Nov 2022 07:45 am
9) 113009.D 211328-01	VM080322.M water	6	1.000	30 Nov 2022 10:35 am
10) 113010.D 211348-01	VM080322.M water	7	1.000	30 Nov 2022 10:58 am
11) 113011.D 211389-01	VM080322.M water	8	1.000	30 Nov 2022 11:22 am
12) 113012.D 211389-02	VM080322.M water	9	1.000	30 Nov 2022 11:45 am
13) 113013.D 211313-01	VM080322.M water	10	1.000	30 Nov 2022 12:08 pm
14) 113014.D 211313-02 1/100	VM080322.M water	11	1.000	30 Nov 2022 12:31 pm
15) 113015.D 211379-01 1/5	VM080322.M water	12	1.000	30 Nov 2022 12:55 pm
16) 113016.D 211389-03	VM080322.M water	13	1.000	30 Nov 2022 01:18 pm
17) 113017.D rinse	VM080322.M water	100	1.000	30 Nov 2022 01:41 pm
18) 113018.D rinse	VM080322.M water	100	1.000	30 Nov 2022 02:04 pm
19) 113019.D 211348-01 1/50	VM080322.M water	14	1.000	30 Nov 2022 02:27 pm
20) 113020.D rinse	VM080322.M water	100	1.000	30 Nov 2022 02:50 pm
21) 113021.D	VM080322.M			

*Handwritten notes:*  
 - A vertical line is drawn through the Vial column.  
 - A handwritten "L" is next to Vial 1.  
 - "e foamed" is written next to Vial 10.

rinse	water	100	1.000	30 Nov 2022	03:12 pm
22) 113022.D	VM080322.M				
10 ppb test	water	15	1.000	30 Nov 2022	05:06 pm
23) 113023.D	VM080322.M				
50 ng BFB 67-156A	direct inject	100	1.000	30 Nov 2022	07:39 pm
24) 113024.D	VM080322.M				
rinse		100	1.000	30 Nov 2022	08:26 pm
25) 113025.D	VM080322.M				
rinse		100	1.000	30 Nov 2022	08:49 pm
26) 113026.D	VM080322.M				
rinse		100	1.000	30 Nov 2022	09:11 pm
27) 113027.D	VM080322.M				
rinse		100	1.000	30 Nov 2022	09:34 pm
28) 113028.D	VM080322.M				
rinse		100	1.000	30 Nov 2022	09:57 pm
29) 113029.D	VM080322.M				
rinse		100	1.000	30 Nov 2022	10:20 pm
30) 113030.D	VM080322.M				
0.02 ppb 8260 ICAL.. soil/water		16	1.000	30 Nov 2022	10:43 pm
31) 113031.D	VM080322.M				
0.04 ppb 8260 ICAL.. soil/water		17	1.000	30 Nov 2022	11:06 pm
32) 113032.D	VM080322.M				
0.1 ppb 8260 ICAL .. soil/water		18	1.000	30 Nov 2022	11:29 pm
33) 113033.D	VM080322.M				
0.2 ppb 8260 ICAL .. soil/water		19	1.000	30 Nov 2022	11:52 pm
34) 113034.D	VM080322.M				
0.5 ppb 8260 ICAL .. soil/water		20	1.000	01 Dec 2022	12:15 am
35) 113035.D	VM080322.M				
1 ppb 8260 ICAL 68.. soil/water		21	1.000	01 Dec 2022	12:39 am
36) 113036.D	VM080322.M				
2 ppb 8260 ICAL 68.. soil/water		22	1.000	01 Dec 2022	01:02 am
37) 113037.D	VM080322.M				
5 ppb 8260 ICAL 68.. soil/water		23	1.000	01 Dec 2022	01:25 am
38) 113038.D	VM080322.M				
10 ppb 8260 ICAL 6.. soil/water		24	1.000	01 Dec 2022	01:49 am
39) 113039.D	VM080322.M				
20 ppb 8260 ICAL 6.. soil/water		25	1.000	01 Dec 2022	02:12 am
40) 113040.D	VM080322.M				
50 ppb 8260 ICAL 6.. soil/water		26	1.000	01 Dec 2022	02:35 am
41) 113041.D	VM080322.M				
100 ppb 8260 ICAL .. soil/water		27	1.000	01 Dec 2022	02:58 am
42) 113042.D	VM080322.M				
150 ppb 8260 ICAL .. soil/water		28	1.000	01 Dec 2022	03:22 am
43) 113043.D	VM080322.M				
200 ppb 8260 ICAL .. soil/water		29	1.000	01 Dec 2022	03:45 am

44) 113044.D	VM080322.M					
rinse	soil/water	30	1.000	01 Dec 2022	04:08	am
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45) 113045.D	VM080322.M					
10 ppb 8260 SCV 68..	soil/water	31	1.000	01 Dec 2022	04:31	am
-----						
46) 113046.D	VM080322.M					
rinse		100	1.000	01 Dec 2022	04:53	am
-----						
47) 113047.D	VM080322.M					
rinse		100	1.000	01 Dec 2022	05:16	am
-----						
48) 113048.D	VM080322.M					
rinse		100	1.000	01 Dec 2022	05:39	am
-----						
49) 113049.D	VM080322.M					
rinse		100	1.000	01 Dec 2022	06:02	am
-----						

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-02-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

*m 12/5*

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	120201	VM080522	rinse
2)	Sample	1	120202	VM080522	10 ppb 8260 SCV 68-26-c
3)	Sample	100	120203	VM080522	rinse
4)	Sample	100	120204	VM080522	rinse
5)	Sample	100	120205	VM080522	rinse
6)	Sample	2	120206	VM080522	10 ppb 8260 SCV 68-26c
7)	Sample	100	120207	VM080522	50 ng BFB 67-156A
8)	Sample	100	120208	VM080522	rinse
9)	Sample	100	120209	VM080522	rinse
10)	Sample	100	120210	VM080522	rinse
11)	Sample	100	120211	VM080522	rinse
12)	Sample	3	12021 <del>3</del> <sup>13</sup>	VM080522	0.02 ppb 8260 ICAL 68-4F
13)	Sample	4	12021 <del>3</del> <sup>14</sup>	VM080522	0.04 ppb 8260 ICAL 68-4G
14)	Sample	5	12021 <del>4</del> <sup>15</sup>	VM080522	0.1 ppb 8260 ICAL 68-4H
15)	Sample	6	12021 <del>5</del> <sup>16</sup>	VM080522	0.2 ppb 8260 ICAL 68-4I
16)	Sample	7	12021 <del>6</del> <sup>17</sup>	VM080522	0.5 ppb 8260 ICAL 68-4J
17)	Sample	8	12021 <del>7</del> <sup>18</sup>	VM080522	1 ppb 8260 ICAL 68-4K
18)	Sample	9	12021 <del>8</del> <sup>19</sup>	VM080522	2 ppb 8260 ICAL 68-4L
19)	Sample	10	12021 <del>9</del> <sup>20</sup>	VM080522	5 ppb 8260 ICAL 68-4M
20)	Sample	11	12022 <del>0</del> <sup>21</sup>	VM080522	10 ppb 8260 ICAL 68-4N
21)	Sample	12	12022 <del>1</del> <sup>22</sup>	VM080522	20 ppb 8260 ICAL 68-4O
22)	Sample	13	12022 <del>2</del> <sup>23</sup>	VM080522	50 ppb 8260 ICAL 68-4Q
23)	Sample	14	12022 <del>3</del> <sup>24</sup>	VM080522	100 ppb 8260 ICAL 68-4S
24)	Sample	15	12022 <del>4</del> <sup>25</sup>	VM080522	150 ppb 8260 ICAL 68-4T
25)	Sample	16	12022 <del>5</del> <sup>26</sup>	VM080522	200 ppb 8260 ICAL 68-4U
26)	Sample	17	12022 <del>6</del> <sup>27</sup>	VM080522	rinse
27)	Sample	18	12022 <del>7</del> <sup>28</sup>	VM080522	10 ppb 8260 SCV 68-26C
28)	Sample	100	120228	VM080522	rinse
29)	Sample	100	120229	VM080522	rinse
30)	Sample	100	120230	VM080522	rinse
31)	Sample	100	120231	VM080522	rinse

*m 12/5*

Injection Log

Data Directory: Y:\Proc\_GCMS11\12-02-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120201.D rinse	VM080522.M	100	1.000	02 Dec 2022 12:45 pm
2) 120202.D 10 ppb 8260 SCV 68.. soil/water	VM080522.M	100	1.000	02 Dec 2022 01:08 pm
3) 120207.D 50 ng BFB 67-156A direct inject	VM080522.M	100	1.000	02 Dec 2022 06:48 pm
4) 120208.D rinse	VM080522.M	100	1.000	02 Dec 2022 07:25 pm
5) 120209.D rinse	VM080522.M	100	1.000	02 Dec 2022 07:48 pm
6) 120210.D rinse	VM080522.M	100	1.000	02 Dec 2022 08:11 pm
7) 120211.D rinse	VM080522.M	100	1.000	02 Dec 2022 08:34 pm
8) 120212.D <i>1.70</i> 0.02 ppb 8260 ICAL.. soil/water	VM080522.M	3	1.000	02 Dec 2022 08:57 pm
9) 120213.D 0.04 ppb 8260 ICAL.. soil/water	VM080522.M	4	1.000	02 Dec 2022 09:20 pm <i>sample</i>
10) 120214.D 0.1 ppb 8260 ICAL .. soil/water	VM080522.M	5	1.000	02 Dec 2022 09:43 pm <i>VDS</i>
11) 120215.D 0.2 ppb 8260 ICAL .. soil/water	VM080522.M	6	1.000	02 Dec 2022 10:06 pm
12) 120216.D 0.5 ppb 8260 ICAL .. soil/water	VM080522.M	7	1.000	02 Dec 2022 10:29 pm
13) 120217.D 1 ppb 8260 ICAL 68.. soil/water	VM080522.M	8	1.000	02 Dec 2022 10:53 pm
14) 120218.D 2 ppb 8260 ICAL 68.. soil/water	VM080522.M	9	1.000	02 Dec 2022 11:16 pm
15) 120219.D 5 ppb 8260 ICAL 68.. soil/water	VM080522.M	10	1.000	02 Dec 2022 11:39 pm
16) 120220.D 10 ppb 8260 ICAL 6.. soil/water	VM080522.M	11	1.000	03 Dec 2022 12:02 am
17) 120221.D 20 ppb 8260 ICAL 6.. soil/water	VM080522.M	12	1.000	03 Dec 2022 12:25 am
18) 120222.D 50 ppb 8260 ICAL 6.. soil/water	VM080522.M	13	1.000	03 Dec 2022 12:49 am
19) 120223.D 100 ppb 8260 ICAL .. soil/water	VM080522.M	14	1.000	03 Dec 2022 01:12 am
20) 120224.D 150 ppb 8260 ICAL .. soil/water	VM080522.M	15	1.000	03 Dec 2022 01:35 am
21) 120225.D	VM080522.M			

<del>200 ppb</del> 8260 ICAL .. soil/water		16	1.000	03 Dec 2022	01:58 am
22) 120226.D	VM080522.M				
<del>rinse</del> <i>700 ppb</i> soil/water		17	1.000	03 Dec 2022	02:21 am
23) 120227.D	VM080522.M				
<del>10 ppb 8260 SCV 68 .. soil/water</del>		18	1.000	03 Dec 2022	02:45 am
24) 120228.D	VM080522.M				
<del>rinse</del> <i>second service</i>		100	1.000	03 Dec 2022	03:08 am
25) 120229.D	VM080522.M				
rinse		100	1.000	03 Dec 2022	03:31 am
26) 120230.D	VM080522.M				
rinse		100	1.000	03 Dec 2022	03:54 am
27) 120231.D	VM080522.M				
rinse		100	1.000	03 Dec 2022	04:17 am



## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-02-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120201.D rinse	VM080522.M	100	1.000	02 Dec 2022 12:45 pm
2) 120202.D 10 ppb 8260 SCV 68..	soil/water VM080522.M	100	1.000	02 Dec 2022 01:08 pm
3) 120207.D 50 ng BFB 67-156A	direct inject VM080522.M	100	1.000	02 Dec 2022 06:48 pm
4) 120208.D rinse	VM080522.M	100	1.000	02 Dec 2022 07:25 pm
5) 120209.D rinse	VM080522.M	100	1.000	02 Dec 2022 07:48 pm
6) 120210.D rinse	VM080522.M	100	1.000	02 Dec 2022 08:11 pm
7) 120211.D rinse	VM080522.M	100	1.000	02 Dec 2022 08:34 pm
8) 120212.D rinse	soil/water VM080522.M	3	1.000	02 Dec 2022 08:57 pm
9) 120213.D 0.02 ppb 8260 ICAL	soil/water VM080522.M	4	1.000	02 Dec 2022 09:20 pm
10) 120214.D 0.04 ppb 8260 ICAL..	soil/water VM080522.M	5	1.000	02 Dec 2022 09:43 pm
11) 120215.D 0.1 ppb 8260 ICAL ..	soil/water VM080522.M	6	1.000	02 Dec 2022 10:06 pm
12) 120216.D 0.2 ppb 8260 ICAL ..	soil/water VM080522.M	7	1.000	02 Dec 2022 10:29 pm
13) 120217.D 0.5 ppb 8260 ICAL ..	soil/water VM080522.M	8	1.000	02 Dec 2022 10:53 pm
14) 120218.D 1 ppb 8260 ICAL 68..	soil/water VM080522.M	9	1.000	02 Dec 2022 11:16 pm
15) 120219.D 2 ppb 8260 ICAL 68..	soil/water VM080522.M	10	1.000	02 Dec 2022 11:39 pm
16) 120220.D 5 ppb 8260 ICAL 68..	soil/water VM080522.M	11	1.000	03 Dec 2022 12:02 am
17) 120221.D 10 ppb 8260 ICAL 6..	soil/water VM080522.M	12	1.000	03 Dec 2022 12:25 am
18) 120222.D 20 ppb 8260 ICAL 6..	soil/water VM080522.M	13	1.000	03 Dec 2022 12:49 am
19) 120223.D 50 ppb 8260 ICAL 6..	soil/water VM080522.M	14	1.000	03 Dec 2022 01:12 am
20) 120224.D 100 ppb 8260 ICAL ..	soil/water VM080522.M	15	1.000	03 Dec 2022 01:35 am
21) 120225.D	VM080522.M			

150 ppb 8260 ICAL .. soil/water		16	1.000	03 Dec 2022	01:58 am
22) 120226.D	VM080522.M				
200 ppb 8260 ICAL .. soil/water		17	1.000	03 Dec 2022	02:21 am
23) 120227.D	VM080522.M				
rinse .	soil/water	18	1.000	03 Dec 2022	02:45 am
24) 120228.D	VM080522.M				
10 ppb 8260 SCV 68..		100	1.000	03 Dec 2022	03:08 am
25) 120229.D	VM080522.M				
rinse		100	1.000	03 Dec 2022	03:31 am
26) 120230.D	VM080522.M				
rinse		100	1.000	03 Dec 2022	03:54 am
27) 120231.D	VM080522.M				
rinse		100	1.000	03 Dec 2022	04:17 am

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-12-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

12/13 DM

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

Line Type	ALS	File	Method	Sample Name/Misc Info
1) Sample	100	121201	VM080522	rinse
2) Sample	100	121202	VM080522	rinse
3) Sample	1	121203	VM080522	10 ppb 8260 CCV 67-150N
4) Sample	2	121204	VM080522	02-2866 lcs
5) Sample	3	121205	VM080522	02-2866 lcsd
6) Sample	100	121206	VM080522	rinse
7) Sample	4	121207	VM080522	02-2866 mb
8) Sample	5	121208	VM080522	02-2865 mb 1/0.25
9) Sample	100	121209	VM080522	rinse
10) Sample	100	121210	VM080522	rinse
11) Sample	100	121211	VM080522	rinse
12) Sample	100	121212	VM080522	rinse
13) Pause				
14) Sample	100	121213	VM080522	rinse
15) Sample	100	121214	VM080522	rinse
16) Sample	6	121215	VM080522	blank no inject
17) Sample	100	121216	VM080522	rinse
18) Sample	100	121217	VM080522	rinse
19) Sample	100	121218	VM080522	rinse
20) Sample	100	121219	VM080522	rinse
21) Sample	100	121220	VM080522	rinse
22) Sample	100	121221	VM080522	rinse
23) Sample	100	121222	VM080522	rinse
24) Sample	100	121223	VM080522	50 ng BFB 67-152A
25) Sample	100	121224	VM080522	rinse
26) Sample	100	121225	VM080522	rinse
27) Sample	100	121226	VM080522	rinse
28) Sample	100	121227	VM080522	rinse
29) Sample	6	121228	VM080522	0.02 ppb 8260 ICAL 68-25F
30) Sample	7	121229	VM080522	0.04 ppb 8260 ICAL 68-25G
31) Sample	8	121230	VM080522	0.1 ppb 8260 ICAL 68-25H
32) Sample	9	121231	VM080522	0.2 ppb 8260 ICAL 68-25I
33) Sample	10	121232	VM080522	0.5 ppb 8260 ICAL 68-25J
34) Sample	11	121233	VM080522	1 ppb 8260 ICAL 68-25K
35) Sample	12	121234	VM080522	2 ppb 8260 ICAL 68-25L
36) Sample	13	121235	VM080522	5 ppb 8260 ICAL 68-25M
37) Sample	14	121236	VM080522	10 ppb 8260 ICAL 68-25N
38) Sample	15	121237	VM080522	20 ppb 8260 ICAL 68-25O
39) Sample	16	121238	VM080522	50 ppb 8260 ICAL 68-25Q
40) Sample	17	121239	VM080522	100 ppb 8260 ICAL 68-25S
41) Sample	18	121240	VM080522	150 ppb 8260 ICAL 68-25T

Sequence Name: D:\GCMS11\sequence\12-12-22.sequence.xml

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-12-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

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42)	Sample	19	121241	VM080522	200 ppb	8260 ICAL	68-25U
43)	Sample	20	121242	VM080522	rinse		
44)	Sample	21	121243	VM080522	10 ppb	8260 SCV	68-26C
45)	Sample	100	121244	VM080522	rinse		
46)	Sample	100	121245	VM080522	rinse		
47)	Sample	100	121246	VM080522	rinse		
48)	Sample	100	121247	VM080522	rinse		

## Injection Log

Data Directory: D:\Proc\_GCMS11\12-12-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 121210.D No data found	VM080522.M		0.000	N/A
2) 121201.D rinse	VM080522.M	100	1.000	12 Dec 2022 07:16 am
3) 121202.D rinse	VM080522.M	100	1.000	12 Dec 2022 07:38 am
4) 121203.D 10 ppb 8260 CCV 67..	soil/water VM080522.M	1	1.000	12 Dec 2022 08:00 am
5) 121204.D 02-2866 lcs	water VM080522.M	2	1.000	12 Dec 2022 08:23 am
6) 121205.D 02-2866 lcsd	water VM080522.M	3	1.000	12 Dec 2022 08:45 am
7) 121206.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 09:07 am
8) 121207.D 02-2866 mb	water VM080522.M	4	1.000	12 Dec 2022 09:30 am
9) 121208.D 02-2865 mb 1/0.25	soil VM080522.M	5	1.000	12 Dec 2022 09:52 am
10) 121209.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 11:25 am
11) 121211.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 01:34 pm
12) 121212.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 01:56 pm
13) 121213.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 02:29 pm
14) 121214.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 02:51 pm
15) 121215.D blank no inject	soil/water VM080522.M	6	1.000	12 Dec 2022 03:14 pm
16) 121216.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 04:54 pm
17) 121217.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 05:16 pm
18) 121218.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 05:38 pm
19) 121219.D rinse	soil/water VM080522.M	100	1.000	12 Dec 2022 06:00 pm

20) 121220.D	VM080522.M						
rinse	soil/water	100	1.000	12 Dec 2022	06:22	pm	
21) 121221.D	VM080522.M						
rinse	soil/water	100	1.000	12 Dec 2022	06:45	pm	
22) 121222.D	VM080522.M						
rinse	soil/water	100	1.000	12 Dec 2022	07:07	pm	
23) 121223.D	VM080522.M						
50 ng BFB 67-152A	direct inject	100	1.000	12 Dec 2022	08:09	pm	
24) 121224.D	VM080522.M						
rinse		100	1.000	12 Dec 2022	09:07	pm	
25) 121225.D	VM080522.M						
rinse		100	1.000	12 Dec 2022	09:29	pm	
26) 121226.D	VM080522.M						
rinse		100	1.000	12 Dec 2022	09:52	pm	
27) 121227.D	VM080522.M						
rinse		100	1.000	12 Dec 2022	10:14	pm	
28) 121228.D	VM080522.M						
0.02 ppb 8260 ICAL..	soil/water	6	1.000	12 Dec 2022	10:36	pm	
29) 121229.D	VM080522.M						
0.04 ppb 8260 ICAL..	soil/water	7	1.000	12 Dec 2022	10:59	pm	
30) 121230.D	VM080522.M						
0.1 ppb 8260 ICAL ..	soil/water	8	1.000	12 Dec 2022	11:21	pm	
31) 121231.D	VM080522.M						
0.2 ppb 8260 ICAL ..	soil/water	9	1.000	12 Dec 2022	11:44	pm	
32) 121232.D	VM080522.M						
0.5 ppb 8260 ICAL ..	soil/water	10	1.000	13 Dec 2022	12:06	am	
33) 121233.D	VM080522.M						
1 ppb 8260 ICAL 68..	soil/water	11	1.000	13 Dec 2022	12:29	am	
34) 121234.D	VM080522.M						
2 ppb 8260 ICAL 68..	soil/water	12	1.000	13 Dec 2022	12:51	am	
35) 121235.D	VM080522.M						
5 ppb 8260 ICAL 68..	soil/water	13	1.000	13 Dec 2022	01:14	am	
36) 121236.D	VM080522.M						
10 ppb 8260 ICAL 6..	soil/water	14	1.000	13 Dec 2022	01:36	am	
37) 121237.D	VM080522.M						
20 ppb 8260 ICAL 6..	soil/water	15	1.000	13 Dec 2022	01:58	am	
38) 121238.D	VM080522.M						
50 ppb 8260 ICAL 6..	soil/water	16	1.000	13 Dec 2022	02:21	am	
39) 121239.D	VM080522.M						
100 ppb 8260 ICAL ..	soil/water	17	1.000	13 Dec 2022	02:43	am	
40) 121240.D	VM080522.M						
150 ppb 8260 ICAL ..	soil/water	18	1.000	13 Dec 2022	03:06	am	

41) 121241.D	VM080522.M					
200 ppb 8260 ICAL .. soil/water		19	1.000	13 Dec 2022	03:28	am
42) 121242.D	VM080522.M					
rinse soil/water		20	1.000	13 Dec 2022	03:51	am
43) 121243.D	VM080522.M					
10 ppb 8260 SCV 68.. soil/water		21	1.000	13 Dec 2022	04:13	am
44) 121244.D	VM080522.M					
rinse		100	1.000	13 Dec 2022	04:35	am
45) 121245.D	VM080522.M					
rinse		100	1.000	13 Dec 2022	04:58	am
46) 121246.D	VM080522.M					
rinse		100	1.000	13 Dec 2022	05:20	am
47) 121247.D	VM080522.M					
rinse		100	1.000	13 Dec 2022	05:42	am

Comment:

Operator: lm

Data Path: D:\GCMS13\GCMS13\_Data\12-09-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

*12/11 PM*

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

Line Type	ALS	File	Method	Sample Name/Misc Info
1) Sample	100	120901	VM080322	rinse
2) Sample	100	120902	VM080322	rinse
3) Sample	1	120903	VM080322	10 ppb 8260 CCV 67-97N
4) Sample	100	120904	VM080322	rinse
5) Sample	100	120905	VM080322	rinse
6) Sample	2	120906	VM080322	02-2856 mb rr
7) Sample	3	120907	VM080322	02-2859 mb2
8) Sample	4	120908	VM080322	212083-01 rr
9) Sample	5	120909	VM080322	212113-01 rr
10) Sample	6	120910	VM080322	212060-01 rr
11) Sample	7	120911	VM080322	212060-05 rr
12) Sample	8	120912	VM080322	212060-06 rr
13) Sample	9	120913	VM080322	212113-02
14) Sample	10	120914	VM080322	212113-03
15) Sample	11	120915	VM080322	212113-04 1/5
16) Sample	12	120916	VM080322	212113-05
17) Sample	13	120917	VM080322	<del>212098-02</del> 212083
18) Sample	14	120918	VM080322	<del>212098-03</del>
19) Sample	15	120919	VM080322	<del>212098-04</del>
20) Sample	16	120920	VM080322	<del>212098-05</del>
21) Sample	17	120921	VM080322	<del>212098-06</del>
22) Sample	18	120922	VM080322	<del>212098-07</del>
23) Sample	100	120923	VM080322	rinse

*12/11 PM*  
*212060-05 rr*  
*212060-06 rr*

*212083*  
*12/11 PM*  
*1/10*  
*1/10*  
*12/11*



## Injection Log

Data Directory: Y:\Proc\_GCMS13\12-09-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120901.D rinse	VM080322.M	100	1.000	09 Dec 2022 07:43 am
2) 120902.D rinse	VM080322.M	100	1.000	09 Dec 2022 08:06 am
3) 120903.D 10 ppb 8260 CCV 67.. soil/water	VM080322.M	1	1.000	09 Dec 2022 08:29 am
4) 120904.D rinse	VM080322.M	100	1.000	09 Dec 2022 10:06 am
5) 120905.D rinse	VM080322.M	100	1.000	09 Dec 2022 10:28 am
6) 120906.D 02-2856 mb rr	VM080322.M water	2	1.000	09 Dec 2022 10:52 am
7) 120907.D 02-2859 mb2	VM080322.M water	3	1.000	09 Dec 2022 11:15 am
8) 120908.D 212083-01 rr	VM080322.M water	4	1.000	09 Dec 2022 11:38 am
9) 120909.D 212113-01 rr	VM080322.M water	5	1.000	09 Dec 2022 12:02 pm
10) 120910.D 212059-01 rr	VM080322.M water	6	1.000	09 Dec 2022 12:25 pm
11) 120911.D 212059-05 rr	VM080322.M water	7	1.000	09 Dec 2022 12:48 pm
12) 120912.D 212059-06 rr	VM080322.M water	8	1.000	09 Dec 2022 01:11 pm
13) 120913.D 212113-02	VM080322.M water	9	1.000	09 Dec 2022 01:35 pm
14) 120914.D 212113-03	VM080322.M water	10	1.000	09 Dec 2022 01:58 pm
15) 120915.D 212113-04 1/5	VM080322.M water	11	1.000	09 Dec 2022 02:21 pm
16) 120916.D 212113-05	VM080322.M water	12	1.000	09 Dec 2022 02:44 pm
17) 120917.D 212083-02	VM080322.M water	13	1.000	09 Dec 2022 03:07 pm
18) 120918.D 212083-03	VM080322.M water	14	1.000	09 Dec 2022 03:30 pm
19) 120919.D 212083-04 1/10	VM080322.M water	15	1.000	09 Dec 2022 03:54 pm
20) 120920.D 212083-05 1/10	VM080322.M water	16	1.000	09 Dec 2022 04:17 pm
21) 120921.D	VM080322.M			

212083-06	water		17	1.000	09 Dec 2022	04:40 pm
-----						
22) 120922.D		VM080322.M				
212083-07	water		18	1.000	09 Dec 2022	05:03 pm
-----						
23) 120923.D		VM080322.M				
rinse	water		100	1.000	09 Dec 2022	05:26 pm
-----						

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-08-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

B 12/19

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	120801	VM080522	rinse
2)	Sample	100	120802	VM080522	rinse
3)	Sample	1	120803	VM080522	10 ppb 8260 CCV 67-150N
4)	Sample	2	120804	VM080522	02-2869 lcs
5)	Sample	3	120805	VM080522	02-2869 lcsd
6)	Sample	100	120806	VM080522	rinse
7)	Sample	4	120807	VM080522	02-2869 mb
8)	Sample	5	120808	VM080522	02-2867 mb 1/0.25
9)	Sample	6	120809	VM080522	02-2869 mb 1/200
10)	Sample	7	120810	VM080522	212004-01 1/200 12/19
11)	Sample	100	120811	VM080522	rinse
12)	Sample	8	120812	VM080522	212113-01 not in autosampler 12/19
13)	Sample	9	120813	VM080522	212083-01 removed +
14)	Sample	10	120814	VM080522	212104-01
15)	Sample	11	120815	VM080522	212104-02 put in fridge
16)	Sample	12	120816	VM080522	212104-03
17)	Sample	13	120817	VM080522	212104-04
18)	Sample	14	120818	VM080522	212104-05
19)	Sample	15	120819	VM080522	212104-01 ms
20)	Sample	100	120820	VM080522	rinse

## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-08-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120801.D rinse	VM080522.M	100	1.000	08 Dec 2022 05:27 am
2) 120802.D rinse	VM080522.M	100	1.000	08 Dec 2022 05:50 am
3) 120803.D 10 ppb 8260 CCV 67..	soil/water VM080522.M	1	1.000	08 Dec 2022 06:13 am
4) 120804.D 02-2859 lcs	water VM080522.M	2	1.000	08 Dec 2022 06:36 am
5) 120805.D 02-2859 lcsd	water VM080522.M	3	1.000	08 Dec 2022 06:59 am
6) 120806.D rinse	soil/water VM080522.M	100	1.000	08 Dec 2022 07:23 am
7) 120807.D 02-2859 mb	water VM080522.M	4	1.000	08 Dec 2022 07:46 am
8) 120808.D 02-2867 mb 1/0.25	soil VM080522.M	5	1.000	08 Dec 2022 08:09 am
9) 120809.D 02- <del>2869</del> mb 1/200	water VM080522.M	6	1.000	08 Dec 2022 09:57 am
10) 120810.D 212004-01	water VM080522.M	7	1.000	08 Dec 2022 10:20 am
11) 120811.D rinse	soil/water VM080522.M	100	1.000	08 Dec 2022 10:47 am
12) 120812.D 212113-01	water VM080522.M	8	1.000	08 Dec 2022 11:11 am
13) 120813.D 212083-01	water VM080522.M	9	1.000	08 Dec 2022 11:34 am
14) 120814.D 212104-01	water VM080522.M	10	1.000	08 Dec 2022 11:57 am
15) 120815.D 212104-02	water VM080522.M	11	1.000	08 Dec 2022 12:20 pm
16) 120816.D 212104-03	water VM080522.M	12	1.000	08 Dec 2022 12:44 pm
17) 120817.D 212104-04	water VM080522.M	13	1.000	08 Dec 2022 01:07 pm
18) 120818.D 212104-05	water VM080522.M	14	1.000	08 Dec 2022 01:31 pm
19) 120819.D 212104-01 ms	water VM080522.M	15	1.000	08 Dec 2022 01:54 pm
20) 120820.D rinse	water VM080522.M	100	1.000	08 Dec 2022 02:17 pm

## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-08-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 120801.D rinse	VM080522.M	100	1.000	08 Dec 2022 05:27 am
2) 120802.D rinse	VM080522.M	100	1.000	08 Dec 2022 05:50 am
3) 120803.D 10 ppb 8260 CCV 67..	soil/water VM080522.M	1	1.000	08 Dec 2022 06:13 am
4) 120804.D 02-2869 lcs <i>2859</i>	water VM080522.M	2	1.000	08 Dec 2022 06:36 am
5) 120805.D 02-2869 <del>lcs</del> <i>2859</i>	water VM080522.M	3	1.000	08 Dec 2022 06:59 am
6) 120806.D rinse	soil/water VM080522.M	100	1.000	08 Dec 2022 07:23 am
7) 120807.D 02- <del>2869</del> mb <i>2859</i>	water VM080522.M	4	1.000	08 Dec 2022 07:46 am
8) 120808.D 02-2867 mb 1/0.25	soil VM080522.M	5	1.000	08 Dec 2022 08:09 am
9) 120809.D 02-2869 mb 1/200	water VM080522.M	6	1.000	08 Dec 2022 09:57 am
10) 120810.D 212004-01	water VM080522.M	7	1.000	08 Dec 2022 10:20 am
11) 120811.D rinse	soil/water VM080522.M	100	1.000	08 Dec 2022 10:47 am
12) 120812.D 212113-01	water VM080522.M	8	1.000	08 Dec 2022 11:11 am
13) 120813.D 212083-01	water VM080522.M	9	1.000	08 Dec 2022 11:34 am
14) 120814.D 212104-01	water VM080522.M	10	1.000	08 Dec 2022 11:57 am
15) 120815.D 212104-02	water VM080522.M	11	1.000	08 Dec 2022 12:20 pm
16) 120816.D 212104-03	water VM080522.M	12	1.000	08 Dec 2022 12:44 pm
17) 120817.D 212104-04	water VM080522.M	13	1.000	08 Dec 2022 01:07 pm
18) 120818.D 212104-05	water VM080522.M	14	1.000	08 Dec 2022 01:31 pm
19) 120819.D 212104-01 ms	water VM080522.M	15	1.000	08 Dec 2022 01:54 pm

Sequence Name: D:\GCMS11\sequence\12-14-22.sequence.xml

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-14-22\  
B12/13

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run                   Sequence Barcode Options  
(X) Full Method                     ( ) On Mismatch, Inject Anyway  
( ) Reprocessing Only               ( ) On Mismatch, Don't Inject  
                                      (X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	121401	VM080522	rinse
2)	Sample	100	121402	VM080522	rinse
3)	Sample	1	121403	VM080522	10 ppb 8260 CCV 67-150N
4)	Sample	2	121404	VM080522	02-2959 lcs
5)	Sample	3	121405	VM080522	02-2959 lcsd
6)	Sample	100	121406	VM080522	rinse
7)	Sample	4	121407	VM080522	02-2959 mb
8)	Sample	5	121408	VM080522	02-2957 mb 1/0.25
9)	Sample	6	121409	VM080522	212213-01
10)	Sample	7	121410	VM080522	212213-02
11)	Sample	8	121411	VM080522	212213-03
12)	Sample	9	121412	VM080522	212213-04
13)	Sample	10	121413	VM080522	212213-05
14)	Sample	19	121414	VM080522	212083-04 rr 1/10
15)	Sample	20	121415	VM080522	212083-05 rr 1/10
16)	Sample	21	121416	VM080522	212083-06 rr
17)	Sample	22	121417	VM080522	212083-07 rr
18)	Sample	23	121418	VM080522	212113-04 rr
19)	Sample	24	121419	VM080522	212113-05 rr
20)	Sample	100	121420	VM080522	rinse
21)	Sample	25	121421	VM080522	212212-01
22)	Sample	11	121422	VM080522	212131-01
23)	Sample	12	121423	VM080522	212131-02
24)	Sample	13	121424	VM080522	212131-03
25)	Sample	14	121425	VM080522	212131-05
26)	Sample	15	121426	VM080522	212131-06
27)	Sample	16	121427	VM080522	212131-07
28)	Sample	17	121428	VM080522	212131-04
29)	Sample	18	121429	VM080522	212213-01 ms
30)	Sample	100	121430	VM080522	rinse
31)	Sample	26	121431	VM080522	10 ppb 8260 CCV 68-25N
32)	Sample	27	121432	VM080522	10 ppb 8260 CCV 68-25N
33)	Sample	100	121433	VM080522	rinse
34)	Sample	28	121434	VM080522	02-2961 lcs
35)	Sample	29	121435	VM080522	02-2961 lcsd
36)	Sample	100	121436	VM080522	rinse
37)	Sample	30	121437	VM080522	02-2961 mb
38)	Sample	31	121438	VM080522	212108-02
39)	Sample	32	121439	VM080522	212147-02
40)	Sample	33	121440	VM080522	212146-06
41)	Sample	34	121441	VM080522	212108-01

Sequence Name: D:\GCMS11\sequence\12-14-22.sequence.xml

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-14-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

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42)	Sample	35	121442	VM080522	212108-03	
43)	Sample	36	121443	VM080522	212108-05	
44)	Sample	37	121444	VM080522	212108-06	
45)	Sample	38	121445	VM080522	212108-07	
46)	Sample	39	121446	VM080522	212147-01	
47)	Sample	40	121447	VM080522	212147-03	
48)	Sample	41	121448	VM080522	212147-04	
49)	Sample	42	121449	VM080522	212147-05	
50)	Sample	43	121450	VM080522	212147-08	
51)	Sample	44	121451	VM080522	212147-07	
52)	Sample	45	121452	VM080522	212108-04	
53)	Sample	46	121453	VM080522	212108-01	ms
54)	Sample	47	121454	VM080522	212108-01	msd
55)	Sample	48	121455	VM080522	212147-07	ms
56)	Sample	49	121456	VM080522	212147-07	msd
57)	Sample	100	121457	VM080522	rinse	
58)	Sample	100	121458	VM080522	rinse	

## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-14-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 121401.D rinse	VM080522.M	100	1.000	14 Dec 2022 04:59 am
2) 121402.D rinse	VM080522.M	100	1.000	14 Dec 2022 05:21 am
3) 121403.D 10 ppb 8260 CCV 67..	soil/water VM080522.M	1	1.000	14 Dec 2022 05:44 am
4) 121404.D 02-2959 lcs	water VM080522.M	2	1.000	14 Dec 2022 06:06 am
5) 121405.D 02-2959 lcsd	water VM080522.M	3	1.000	14 Dec 2022 06:28 am
6) 121406.D rinse	soil/water VM080522.M	100	1.000	14 Dec 2022 06:51 am
7) 121407.D 02-2959 mb	water VM080522.M	4	1.000	14 Dec 2022 07:13 am
8) 121408.D 02-2957 mb 1/0.25	soil VM080522.M	5	1.000	14 Dec 2022 07:35 am
9) 121409.D 212213-01	water VM080522.M	6	1.000	14 Dec 2022 08:00 am
10) 121410.D 212213-02	water VM080522.M	7	1.000	14 Dec 2022 08:22 am
11) 121411.D 212213-03	water VM080522.M	8	1.000	14 Dec 2022 08:45 am
12) 121412.D 212213-04	water VM080522.M	9	1.000	14 Dec 2022 09:07 am
13) 121413.D 212213-05	water VM080522.M	10	1.000	14 Dec 2022 09:29 am
14) 121414.D 212083-04 rr 1/10	water VM080522.M	19	1.000	14 Dec 2022 09:52 am
15) 121415.D 212083-05 rr 1/10	water VM080522.M	20	1.000	14 Dec 2022 10:14 am
16) 121416.D 212083-06 rr	water VM080522.M	21	1.000	14 Dec 2022 10:37 am
17) 121417.D 212083-07 rr	water VM080522.M	22	1.000	14 Dec 2022 10:59 am
18) 121418.D 212113-04 rr	water VM080522.M	23	1.000	14 Dec 2022 11:21 am
19) 121419.D 212113-05 rr	water VM080522.M	24	1.000	14 Dec 2022 11:44 am
20) 121420.D rinse	water VM080522.M	100	1.000	14 Dec 2022 12:06 pm
21) 121421.D	VM080522.M			



212212-01	water	VM080522.M	25	1.000	14 Dec 2022	12:28 pm
22) 121422.D		VM080522.M				
212131-01	water		11	1.000	14 Dec 2022	12:51 pm
23) 121423.D		VM080522.M				
212131-02	water		12	1.000	14 Dec 2022	01:13 pm
24) 121424.D		VM080522.M				
212131-03	water		13	1.000	14 Dec 2022	01:36 pm
25) 121425.D		VM080522.M				
212131-05	water		14	1.000	14 Dec 2022	01:58 pm
26) 121426.D		VM080522.M				
212131-06	water		15	1.000	14 Dec 2022	02:20 pm
27) 121427.D		VM080522.M				
212131-07	water		16	1.000	14 Dec 2022	02:43 pm
28) 121428.D		VM080522.M				
212131-04	water		17	1.000	14 Dec 2022	03:05 pm
29) 121429.D		VM080522.M				
212213-01 ms	water		18	1.000	14 Dec 2022	03:28 pm
30) 121430.D		VM080522.M				
rinse	water		100	1.000	14 Dec 2022	03:50 pm
31) 121431.D		VM080522.M				
10 ppb 8260 CCV 68..	soil/water		26	1.000	14 Dec 2022	04:28 pm
32) 121432.D		VM080522.M				
10 ppb 8260 CCV 68..	soil/water		27	1.000	14 Dec 2022	05:07 pm
33) 121433.D		VM080522.M				
rinse			100	1.000	14 Dec 2022	06:02 pm
34) 121434.D		VM080522.M				
02-2961 lcs	water		28	1.000	14 Dec 2022	06:24 pm
35) 121435.D		VM080522.M				
02-2961 lcsd	water		29	1.000	14 Dec 2022	06:47 pm
36) 121436.D		VM080522.M				
rinse	water		100	1.000	14 Dec 2022	07:09 pm
37) 121437.D		VM080522.M				
02-2961 mb	water		30	1.000	14 Dec 2022	07:31 pm
38) 121438.D		VM080522.M				
212108-02	water		31	1.000	14 Dec 2022	07:54 pm
39) 121439.D		VM080522.M				
212147-02	water		32	1.000	14 Dec 2022	08:16 pm
40) 121440.D		VM080522.M				
212146-06	water		33	1.000	14 Dec 2022	08:38 pm
41) 121441.D		VM080522.M				
212108-01	water		34	1.000	14 Dec 2022	09:01 pm
42) 121442.D		VM080522.M				
212108-03	water		35	1.000	14 Dec 2022	09:23 pm
43) 121443.D		VM080522.M				
212108-05	water		36	1.000	14 Dec 2022	09:46 pm

*bnd*  
*sp. lcs*

44) 121444.D		VM080522.M				
212108-06	water		37	1.000	14 Dec 2022	10:08 pm
-----						
45) 121445.D		VM080522.M				
212108-07	water		38	1.000	14 Dec 2022	10:31 pm
-----						
46) 121446.D		VM080522.M				
212147-01	water		39	1.000	14 Dec 2022	10:53 pm
-----						
47) 121447.D		VM080522.M				
212147-03	water		40	1.000	14 Dec 2022	11:16 pm
-----						
48) 121448.D		VM080522.M				
212147-04	water		41	1.000	14 Dec 2022	11:38 pm
-----						
49) 121449.D		VM080522.M				
212147-05	water		42	1.000	15 Dec 2022	12:01 am
-----						
50) 121450.D		VM080522.M				
212147-08	water		43	1.000	15 Dec 2022	12:23 am
-----						
51) 121451.D		VM080522.M				
212147-07	water		44	1.000	15 Dec 2022	12:45 am
-----						
52) 121452.D		VM080522.M				
212108-04	water		45	1.000	15 Dec 2022	01:08 am
-----						
53) 121453.D		VM080522.M				
212108-01 ms	water		46	1.000	15 Dec 2022	01:30 am
-----						
54) 121454.D		VM080522.M				
212108-01 msd	water		47	1.000	15 Dec 2022	01:53 am
-----						
55) 121455.D		VM080522.M				
212147-07 ms	water		48	1.000	15 Dec 2022	02:15 am
-----						
56) 121456.D		VM080522.M				
212147-07 msd	water		49	1.000	15 Dec 2022	02:37 am
-----						
57) 121457.D		VM080522.M				
rinse	water		100	1.000	15 Dec 2022	02:59 am
-----						
58) 121458.D		VM080522.M				
rinse	water		100	1.000	15 Dec 2022	03:21 am
-----						

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-15-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

*ms 12/16*

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	100	121501	VM080522	rinse
2)	Sample	100	121502	VM080522	rinse
3)	Sample	1	121503	VM080522	10 ppb 8260 CCV 67-192N
4)	Sample	2	121504	VM080522	02-2952 lcs <i>63</i>
5)	Sample	3	121505	VM080522	<del>02-2952 lcsd</del>
6)	Sample	100	121506	VM080522	rinse <i>02-2963 lcsd</i> <i>ms 12/16</i>
7)	Sample	4	121508	VM080522	02-2961 lcs rr
8)	Sample	5	121509	VM080522	02-2961 lcsd rr
9)	Sample	100	121510	VM080522	rinse
10)	Sample	6	121511	VM080522	10 ppb 8260 CCV 67-192N
11)	Sample	7	121512	VM080522	02-2961 lcs rr
12)	Sample	8	121513	VM080522	10 ppb 8260 CCV 67-192N
13)	Sample	9	121514	VM080522	<del>02-2961 lcs rr</del>
14)	Sample	10	121515	VM080522	02-2961 lcsd rr
15)	Sample	11	121516	VM080522	212108-01 ms rr
16)	Sample	12	121517	VM080522	212108-01 msd rr
17)	Sample	100	121518	VM080522	rinse
18)	Sample	100	121519	VM080522	rinse
19)	Sample	22	121520	VM080522	02-2963 mb
20)	Sample	13	121521	VM080522	212076-01 rr
21)	Sample	27	121522	VM080522	212113-05 rr
22)	Sample	14	121523	VM080522	212108-03 1/10
23)	Sample	15	121524	VM080522	212108-04 1/10
24)	Sample	100	121525	VM080522	rinse
25)	Sample	16	121526	VM080522	212230-01
26)	Sample	17	121527	VM080522	212230-02
27)	Sample	18	121528	VM080522	212197-01
28)	Sample	19	121529	VM080522	212197-02
29)	Sample	20	121530	VM080522	212197-03
30)	Sample	21	121531	VM080522	212197-04
31)	Sample	23	121532	VM080522	02-2965 lcs
32)	Sample	24	121533	VM080522	02-2965 lcsd
33)	Sample	25	121534	VM080522	212117-01 ms
34)	Sample	26	121535	VM080522	212108-01 ms rr
35)	Sample	28	121536	VM080522	10 ppb 8260 CCV 68-39N
36)	Sample	100	121537	VM080522	rinse
37)	Sample	29	121538	VM080522	10 ppb 8260 CCV 68-39N
38)	Sample	100	121539	VM080522	rinse
39)	Sample	30	121540	VM080522	02-2965 mb
40)	Sample	31	121541	VM080522	212176-03
41)	Sample	32	121542	VM080522	212176-05

Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-15-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

42)	Sample	33	121543	VM080522	212176-01	
43)	Sample	34	121544	VM080522	212176-02	
44)	Sample	35	121545	VM080522	212176-04	
45)	Sample	36	121546	VM080522	212176-06	
46)	Sample	37	121547	VM080522	212176-07	
47)	Sample	38	121548	VM080522	212176-08	
48)	Sample	39	121549	VM080522	212176-09	
49)	Sample	40	121550	VM080522	212176-10	
50)	Sample	41	121551	VM080522	212176-11	
51)	Sample	42	121552	VM080522	212117-12	1/10
52)	Sample	43	121553	VM080522	212117-13	1/10
53)	Sample	44	121554	VM080522	212117-14	1/10
54)	Sample	45	121555	VM080522	212117-01	
55)	Sample	46	121556	VM080522	212117-02	
56)	Sample	47	121557	VM080522	212117-03	
57)	Sample	48	121558	VM080522	212117-04	
58)	Sample	49	121559	VM080522	212117-05	
59)	Sample	50	121560	VM080522	212117-06	
60)	Sample	51	121561	VM080522	212117-07	
61)	Sample	52	121562	VM080522	212117-08	
62)	Sample	53	121563	VM080522	212117-09	
63)	Sample	54	121564	VM080522	212117-10	
64)	Sample	55	121565	VM080522	212117-11	
65)	Sample	56	121566	VM080522	<del>212117-09</del> ms	212176-09 ms
66)	Sample	57	121567	VM080522	<del>212117-09</del> msd	msd

## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-15-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 121501.D rinse	VM080522.M	100	1.000	15 Dec 2022 05:19 am
2) 121502.D rinse	VM080522.M	100	1.000	15 Dec 2022 05:41 am
3) 121503.D 10 ppb 8260 CCV 67..	soil/water VM080522.M	1	1.000	15 Dec 2022 06:03 am
4) 121504.D 02-2963 lcs	water VM080522.M	2	1.000	15 Dec 2022 06:26 am
5) 121505.D rinse	water VM080522.M	3	1.000	15 Dec 2022 06:48 am
6) 121506.D 02-2963 lcsd	water VM080522.M	100	1.000	15 Dec 2022 07:10 am
7) 121508.D 02-2961 lcs rr	water VM080522.M	4	1.000	15 Dec 2022 07:32 am
8) 121509.D 02-2961 lcsd rr	water VM080522.M	5	1.000	15 Dec 2022 07:55 am
9) 121510.D rinse	water VM080522.M	100	1.000	15 Dec 2022 08:17 am
10) 121511.D 10 ppb 8260 CCV 67..	water VM080522.M	6	1.000	15 Dec 2022 08:40 am
11) 121512.D <del>02-2961 lcs rr</del>	water VM080522.M	7	1.000	15 Dec 2022 09:02 am
12) 121513.D 10 ppb 8260 CCV 67..	water VM080522.M	8	1.000	15 Dec 2022 09:24 am
13) 121514.D 02-2961 lcs rr	water VM080522.M	9	1.000	15 Dec 2022 09:54 am
14) 121515.D 02-2961 lcsd rr	water VM080522.M	10	1.000	15 Dec 2022 10:16 am
15) 121516.D <del>212108-01 ms rr</del>	water VM080522.M	11	1.000	15 Dec 2022 11:04 am
16) 121517.D 212108-01 msd rr	water VM080522.M	12	1.000	15 Dec 2022 11:48 am
17) 121518.D rinse	water VM080522.M	100	1.000	15 Dec 2022 12:10 pm
18) 121519.D rinse	water VM080522.M	100	1.000	15 Dec 2022 12:32 pm
19) 121520.D 02-2963 mb	water VM080522.M	22	1.000	15 Dec 2022 12:55 pm
20) 121521.D 212076-01 rr	water VM080522.M	13	1.000	15 Dec 2022 01:17 pm
21) 121522.D	VM080522.M			

*lc w/ VM080522.M good enough*

*missable lcv band*

*missable*

212113-05 rr	water	27	1.000	15 Dec 2022	01:39 pm
22) 121523.D	VM080522.M				
212108-03 1/10	water	14	1.000	15 Dec 2022	02:02 pm
23) 121524.D	VM080522.M				
212108-04 1/10	water	15	1.000	15 Dec 2022	02:24 pm
24) 121525.D	VM080522.M				
rinse	water	100	1.000	15 Dec 2022	02:47 pm
25) 121526.D	VM080522.M				
212230-01	water	16	1.000	15 Dec 2022	03:09 pm
26) 121527.D	VM080522.M				
212230-02	water	17	1.000	15 Dec 2022	03:31 pm
27) 121528.D	VM080522.M				
212197-01	water	18	1.000	15 Dec 2022	03:54 pm
28) 121529.D	VM080522.M				
212197-02	water	19	1.000	15 Dec 2022	04:16 pm
29) 121530.D	VM080522.M				
212197-03	water	20	1.000	15 Dec 2022	04:38 pm
30) 121531.D	VM080522.M				
212197-04	water	21	1.000	15 Dec 2022	05:01 pm
31) 121532.D	VM080522.M				
02-2965 lcs <i>used</i>	water	23	1.000	15 Dec 2022	05:23 pm
32) 121533.D	VM080522.M				
02-2965 lcsd	water	24	1.000	15 Dec 2022	05:46 pm
33) 121534.D	VM080522.M				
212117-01 ms	water	25	1.000	15 Dec 2022	06:08 pm
34) 121535.D	VM080522.M				
212108-01 ms rr <i>used</i>	water	26	1.000	15 Dec 2022	06:30 pm
35) 121536.D	VM080522.M				
10 ppb 8260 CCV 68..	soil/water	28	1.000	15 Dec 2022	06:53 pm
36) 121537.D	VM080522.M				
rinse	soil/water	100	1.000	15 Dec 2022	07:15 pm
37) 121538.D	VM080522.M				
10 ppb 8260 CCV 68..	soil/water	29	1.000	15 Dec 2022	07:38 pm
38) 121539.D	VM080522.M				
rinse		100	1.000	15 Dec 2022	08:00 pm
39) 121540.D	VM080522.M				
02-2965 mb	water	30	1.000	15 Dec 2022	08:22 pm
40) 121541.D	VM080522.M				
212176-03	water	31	1.000	15 Dec 2022	09:44 pm
41) 121542.D	VM080522.M				
212176-05	water	32	1.000	15 Dec 2022	10:07 pm
42) 121543.D	VM080522.M				
212176-01	water	33	1.000	15 Dec 2022	10:29 pm
43) 121544.D	VM080522.M				
212176-02	water	34	1.000	15 Dec 2022	10:51 pm

212113-05 rr	water	27	1.000	15 Dec 2022	01:39 pm
22) 121523.D	VM080522.M				
212108-03 1/10	water	14	1.000	15 Dec 2022	02:02 pm
23) 121524.D	VM080522.M				
212108-04 1/10	water	15	1.000	15 Dec 2022	02:24 pm
24) 121525.D	VM080522.M				
rinse	water	100	1.000	15 Dec 2022	02:47 pm
25) 121526.D	VM080522.M				
212230-01	water	16	1.000	15 Dec 2022	03:09 pm
26) 121527.D	VM080522.M				
212230-02	water	17	1.000	15 Dec 2022	03:31 pm
27) 121528.D	VM080522.M				
212197-01	water	18	1.000	15 Dec 2022	03:54 pm
28) 121529.D	VM080522.M				
212197-02	water	19	1.000	15 Dec 2022	04:16 pm
29) 121530.D	VM080522.M				
212197-03	water	20	1.000	15 Dec 2022	04:38 pm
30) 121531.D	VM080522.M				
212197-04	water	21	1.000	15 Dec 2022	05:01 pm
31) 121532.D	VM080522.M				
02-2965 lcs	water	23	1.000	15 Dec 2022	05:23 pm
32) 121533.D	VM080522.M				
02-2965 lcsd	water	24	1.000	15 Dec 2022	05:46 pm
33) 121534.D	VM080522.M				
212117-01 ms	water	25	1.000	15 Dec 2022	06:08 pm
34) 121535.D	VM080522.M				
212108-01 ms rr	water	26	1.000	15 Dec 2022	06:30 pm
35) 121536.D	VM080522.M				
10 ppb 8260 CCV 68..	soil/water	28	1.000	15 Dec 2022	06:53 pm
36) 121537.D	VM080522.M				
rinse	soil/water	100	1.000	15 Dec 2022	07:15 pm
37) 121538.D	VM080522.M				
10 ppb 8260 CCV 68..	soil/water	29	1.000	15 Dec 2022	07:38 pm
38) 121539.D	VM080522.M				
rinse		100	1.000	15 Dec 2022	08:00 pm
39) 121540.D	VM080522.M				
02-2965 mb	water	30	1.000	15 Dec 2022	08:22 pm
40) 121541.D	VM080522.M				
212176-03	water	31	1.000	15 Dec 2022	09:44 pm
41) 121542.D	VM080522.M				
212176-05	water	32	1.000	15 Dec 2022	10:07 pm
42) 121543.D	VM080522.M				
212176-01	water	33	1.000	15 Dec 2022	10:29 pm
43) 121544.D	VM080522.M				
212176-02	water	34	1.000	15 Dec 2022	10:51 pm

44) 121545.D		VM080522.M					
212176-04	water		35	1.000	15 Dec 2022	11:14	pm
-----							
45) 121546.D		VM080522.M					
212176-06	water		36	1.000	15 Dec 2022	11:37	pm
-----							
46) 121547.D		VM080522.M					
212176-07	water		37	1.000	15 Dec 2022	11:59	pm
-----							
47) 121548.D		VM080522.M					
212176-08	water		38	1.000	16 Dec 2022	12:21	am
-----							
48) 121549.D		VM080522.M					
212176-09	water		39	1.000	16 Dec 2022	12:44	am
-----							
49) 121550.D		VM080522.M					
212176-10	water		40	1.000	16 Dec 2022	01:07	am
-----							
50) 121551.D		VM080522.M					
212176-11	water		41	1.000	16 Dec 2022	01:29	am
-----							
51) 121552.D		VM080522.M					
212117-12 1/10	water		42	1.000	16 Dec 2022	01:51	am
-----							
52) 121553.D		VM080522.M					
212117-13 1/10	water		43	1.000	16 Dec 2022	02:14	am
-----							
53) 121554.D		VM080522.M					
212117-14 1/10	water		44	1.000	16 Dec 2022	02:36	am
-----							
54) 121555.D		VM080522.M					
212117-01	water		45	1.000	16 Dec 2022	02:58	am
-----							
55) 121556.D		VM080522.M					
212117-02	water		46	1.000	16 Dec 2022	03:21	am
-----							
56) 121557.D		VM080522.M					
212117-03	water		47	1.000	16 Dec 2022	03:43	am
-----							
57) 121558.D		VM080522.M					
212117-04	water		48	1.000	16 Dec 2022	04:06	am
-----							
58) 121559.D		VM080522.M					
212117-05	water		49	1.000	16 Dec 2022	04:28	am
-----							
59) 121560.D		VM080522.M					
212117-06	water		50	1.000	16 Dec 2022	04:50	am
-----							
60) 121561.D		VM080522.M					
212117-07	water		51	1.000	16 Dec 2022	05:13	am
-----							
61) 121562.D		VM080522.M					
212117-08	water		52	1.000	16 Dec 2022	05:35	am
-----							
62) 121563.D		VM080522.M					
212117-09	water		53	1.000	16 Dec 2022	05:58	am
-----							
63) 121564.D		VM080522.M					
212117-10	water		54	1.000	16 Dec 2022	06:20	am
-----							
64) 121565.D		VM080522.M					
212117-11	water		55	1.000	16 Dec 2022	06:43	am
-----							
65) 121566.D		VM080522.M					
212117-09 ms	<i>fail</i> water		56	1.000	16 Dec 2022	07:05	am
-----							
66) 121567.D		VM080522.M					
212117-09 msd	<i>176-09</i> water		57	1.000	16 Dec 2022	07:27	am



Comment:

Operator: LM

Data Path: D:\GCMS11\GCMS11\_Data\12-16-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

( ) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

(X) Barcode Disabled

can't tell if  
correct samples  
were analyzed.  
due to autosampler  
skipping around

JB 12/19

L checked against  
auto sampler log - w  
could check B 12/19

Line Type	ALS	File	Method	Sample Name/Misc Info
1) Sample	100	121601	VM080522	rinse
2) Sample	100	121602	VM080522	rinse
3) Sample	1	121603	VM080522	10 ppb 8260 CCV 68-39N
4) Sample	2	121604	VM080522	212176-09 ms rr
5) Sample	100	121605	VM080522	rinse
6) Sample	5	121606	VM080522	212176-09 msd rr /
7) Sample	100	121607	VM080522	rinse
8) Sample	3	121608	VM080522	212230-02 1/10
9) Sample	6	121609	VM080522	212273-04
10) Sample	7	121610	VM080522	212273-05
11) Sample	4	121611	VM080522	212113-02 rr
12) Sample	8	121612	VM080522	02-2969 lcs
13) Sample	9	121613	VM080522	02-2969 lcsd
14) Sample	100	121614	VM080522	rinse
15) Sample	10	121615	VM080522	02-2969 mb
16) Sample	11	121616	VM080522	212108-05 rr
17) Sample	12	121617	VM080522	10 ppb 8260 CCV 68-39N
18) Sample	13	121618	VM080522	212264-01 ms
19) Sample	100	121619	VM080522	rinse
20) Sample	14	121620	VM080522	instrument blank
21) Sample	15	121621	VM080522	212264-01
22) Sample	16	121622	VM080522	212264-02
23) Sample	17	121623	VM080522	212264-03
24) Sample	18	121624	VM080522	212264-04
25) Sample	19	121625	VM080522	212264-05
26) Sample	20	121626	VM080522	212264-06
27) Sample	21	121627	VM080522	212264-07
28) Sample	22	121628	VM080522	212264-08
29) Sample	23	121629	VM080522	212264-09
30) Sample	24	121630	VM080522	212264-10
31) Sample	25	121631	VM080522	212264-11
32) Sample	26	121632	VM080522	212264-13
33) Sample	27	121633	VM080522	212264-12
34) Sample	28	121634	VM080522	212264-14
35) Sample	29	121635	VM080522	212264-15
36) Sample	30	121636	VM080522	212246-01
37) Sample	31	121637	VM080522	212246-03

## Injection Log

Data Directory: Y:\Proc\_GCMS11\12-16-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 121601.D rinse	VM080522.M soil/water	100	1.000	16 Dec 2022 08:44 am
2) 121602.D rinse	VM080522.M soil/water	100	1.000	16 Dec 2022 09:06 am
3) 121603.D 10 ppb 8260 CCV 68..	VM080522.M soil/water	1	1.000	16 Dec 2022 09:29 am
4) 121604.D 212176-09 ms rr	VM080522.M water	2	1.000	16 Dec 2022 10:07 am
5) 121605.D rinse	VM080522.M soil/water	100	1.000	16 Dec 2022 10:29 am
6) 121606.D 212176-09 msd rr	VM080522.M water	5	1.000	16 Dec 2022 10:52 am
7) 121607.D rinse	VM080522.M soil/water	100	1.000	16 Dec 2022 11:14 am
8) 121608.D 212230-02 1/10	VM080522.M water	3	1.000	16 Dec 2022 11:36 am
9) 121609.D 212273-04	VM080522.M water	6	1.000	16 Dec 2022 11:59 am
10) 121610.D 212273-05	VM080522.M water	7	1.000	16 Dec 2022 12:21 pm
11) 121611.D 212113-02 rr	VM080522.M water	4	1.000	16 Dec 2022 12:44 pm
12) 121612.D 02-2969 lcs	VM080522.M water	8	1.000	16 Dec 2022 01:13 pm
13) 121613.D 02-2969 lcsd	VM080522.M water	9	1.000	16 Dec 2022 01:35 pm
14) 121614.D rinse	VM080522.M water	100	1.000	16 Dec 2022 01:58 pm
15) 121615.D 02-2969 mb	VM080522.M water	10	1.000	16 Dec 2022 02:20 pm
16) 121616.D 212108-05 rr	VM080522.M water	11	1.000	16 Dec 2022 03:11 pm
17) 121617.D 10 ppb 8260 CCV 68..	VM080522.M soil/water	12	1.000	16 Dec 2022 03:41 pm
18) 121618.D 212264-01 ms	VM080522.M water	13	1.000	16 Dec 2022 04:03 pm
19) 121619.D rinse	VM080522.M water	100	1.000	16 Dec 2022 04:25 pm
20) 121620.D instrument blank	VM080522.M water	14	1.000	16 Dec 2022 04:48 pm
21) 121621.D	VM080522.M			

212264-01	water	VM080522.M	15	1.000	16 Dec 2022	05:11 pm
22) 121622.D		VM080522.M				
212264-02	water		16	1.000	16 Dec 2022	05:34 pm
23) 121623.D		VM080522.M				
212264-03	water		17	1.000	16 Dec 2022	05:56 pm
24) 121624.D		VM080522.M				
212264-04	water		18	1.000	16 Dec 2022	06:19 pm
25) 121625.D		VM080522.M				
212264-05	water		19	1.000	16 Dec 2022	06:41 pm
26) 121626.D		VM080522.M				
212264-06	water		20	1.000	16 Dec 2022	07:03 pm
27) 121627.D		VM080522.M				
212264-07	water		21	1.000	16 Dec 2022	07:26 pm
28) 121628.D		VM080522.M				
212264-08	water		22	1.000	16 Dec 2022	07:48 pm
29) 121629.D		VM080522.M				
212264-09	water		23	1.000	16 Dec 2022	08:11 pm
30) 121630.D		VM080522.M				
212264-10	water		24	1.000	16 Dec 2022	08:33 pm
31) 121631.D		VM080522.M				
212264-11	water		25	1.000	16 Dec 2022	08:56 pm
32) 121632.D		VM080522.M				
212264-13	water		26	1.000	16 Dec 2022	09:18 pm
33) 121633.D		VM080522.M				
212264-12	water		27	1.000	16 Dec 2022	09:41 pm
34) 121634.D		VM080522.M				
212264-14	water		28	1.000	16 Dec 2022	10:03 pm
35) 121635.D		VM080522.M				
212264-15	water		29	1.000	16 Dec 2022	10:25 pm
36) 121636.D		VM080522.M				
212246-01	water		30	1.000	16 Dec 2022	10:48 pm
37) 121637.D		VM080522.M				
212246-03	water		31	1.000	16 Dec 2022	11:10 pm

# EPA 8260D

## Checklists

# GC/MS ICAL Checklist

Instrument: GC/MS 13

Sequence Date: 11-30-22

Shift # 2

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	✓ LM	12/1
2 <sup>nd</sup> source passed	✓	
Analyte retention time checked	✓	
Tune passed	✓	
Non-Conformance Report filled out (if needed)	NA	

Notes: 0.04 ppb deleted (PREP ERROR)  
by JLM

Attach this sheet to raw data package.

12/1/22 JLM  
 Supervisor Initials and Date

# GC/MS ICAL Checklist

Instrument: GC/MS 11

Sequence Date: 12.02.22

Shift # 1

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	✓	12/5
2 <sup>nd</sup> source passed	✓	
Analyte retention time checked	✓	
Tune passed	✓	
Non-Conformance Report filled out (if needed)	NA	

Notes: U.04 deleted spike error

Attach this sheet to raw data package.

YA 12/07/22  
Supervisor Initials and Date

# GC/MS ICAL Checklist

Instrument: GC/MS 11

Sequence Date: 12/12/22

Shift # 2

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	[Signature]	12/15/22
2 <sup>nd</sup> source passed	↓	↓
Analyte retention time checked	↓	↓
Tune passed	↓	↓
Non-Conformance Report filled out (if needed)	↓	↓

Notes: H<sub>2</sub>O ONLY

Attach this sheet to raw data package.

YA 12/15/22  
Supervisor Initials and Date

## GC/MS Data Daily Checklist

Instrument: GC/MS 11

Sequence Date: 12.8

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓ L	12/8
Internal Standards within limits (50-200% of the CCVs for 8260, 8270; 70-130% for 524.2)	✓	
Surrogate recoveries within limits	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Matrix spike (MS) analyzed	✓	
RPDs within limits	✓	
Continuing Calibration Analyzed, Evaluated and Passed	all in	
Non-Conformance Report filled out (if needed)		

Notes: \_\_\_\_\_

Attach this sheet to raw data package.

YA 12/09/22  
Supervisor Initials and Date



## GC/MS Data Daily Checklist

Instrument: GC/MS 13

Sequence Date: 12.9.22

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓	12/12
Internal Standards within limits (50-200% of the CCVs for 8260, 8270; 70-130% for 524.2)	✓	
Surrogate recoveries within limits	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Matrix spike (MS) analyzed	N/A	
RPDs within limits	✓	
Continuing Calibration Analyzed, Evaluated and Passed	✓	
Non-Conformance Report filled out (if needed)	✓	

Notes: for PCE + daughters only (VC higher)

Attach this sheet to raw data package.

YA 12/12/22  
Supervisor Initials and Date

## GC/MS Data Daily Checklist

Instrument: GC/MS 11

Sequence Date: 12/14/22

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓	m 12/15
Internal Standards within limits (50-200% of the CCVs for 8260, 8270; 70-130% for 524.2)	✓	
Surrogate recoveries within limits	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Matrix spike (MS) analyzed	✓	
RPDs within limits	✓	
Continuing Calibration Analyzed, Evaluated and Passed	all in	
Non-Conformance Report filled out (if needed)		

Notes: \_\_\_\_\_

Attach this sheet to raw data package.

YA 12/15/22  
Supervisor Initials and Date

## GC/MS Data Daily Checklist

Instrument: GC/MS 11

Sequence Date: 12.15.22

Shift # 2

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓	12/16
Internal Standards within limits (50-200% of the CCVs for 8260, 8270; 70-130% for 524.2)	✓	
Surrogate recoveries within limits	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Matrix spike (MS) analyzed	✓	
RPDs within limits	✓	
Continuing Calibration Analyzed, Evaluated and Passed	acev	
Non-Conformance Report filled out (if needed)		

Notes: \_\_\_\_\_

Attach this sheet to raw data package.

YA 12/19/22  
Supervisor Initials and Date

## GC/MS Data Daily Checklist

Instrument: GC/MS 11

Sequence Date: 12.16.22

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 12 hour shift	✓	12/18
Internal Standards within limits (50-200% of the CCVs for 8260, 8270; 70-130% for 524.2)	✓	/
Surrogate recoveries within limits	✓	/
Laboratory control sample (LCS) recoveries within limits	✓	/
Matrix spike (MS) analyzed	✓	/
RPDs within limits	✓	/
Continuing Calibration Analyzed, Evaluated and Passed	DUMT	/
Non-Conformance Report filled out (if needed)		

Notes: \_\_\_\_\_

Attach this sheet to raw data package.

\_\_\_\_\_  
Supervisor Initials and Date

**EPA 8260D**  
**Internal Standard/Surrogate Summaries**

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS13\11-30-22\113023.D

Tune Time : 30 Nov 2022 07:39 pm

Daily Calibration File : Y:\Proc\_GCMS13\11-30-22\113038.D

(DMF) (DHL) (TOL) (BFB)

115315 105054 65344

File	Sample	Surrogate	Recovery %				Internal	Standard	Responses
=====									
113030.D	0.02 ppb	8	95	104	96	102	136255	113476	70996
-----									
113032.D	0.1 ppb	82	98	93	93	103	137091	110964	69191
-----									
113033.D	0.2 ppb	82	99	98	97	102	135773	114155	70028
-----									
113034.D	0.5 ppb	82	106	107	105	104	123466	111984	68714
-----									
113035.D	1 ppb	8260	100	97	95	101	132290	109564	67837
-----									
113036.D	2 ppb	8260	97	102	94	101	133517	109857	67912
-----									
113037.D	5 ppb	8260	96	98	99	97	129854	107689	65984
-----									
113038.D	10 ppb	826	104	103	106	100	115315	105054	65344
-----									
113039.D	20 ppb	826	105	104	106	100	113852	103353	63199
-----									
113040.D	50 ppb	826	109	107	104	97	111462	99189	62528
-----									
113041.D	100 ppb	82	98	92	103	98	119165	103163	63316
-----									
113042.D	150 ppb	82	96	93	99	98	117219	99384	63257
-----									
113043.D	200 ppb	82	96	102	102	97	117120	100115	62157
-----									
113045.D	10 ppb	826	99	93	95	100	124698	103846	61463

(fails) - fails 12hr time check \* - fails criteria

Created: Thu Dec 01 12:46:22 2022 GCMS13

GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS11\12-02-22\120207.D

Tune Time : 02 Dec 2022 06:48 pm

Daily Calibration File : Y:\Proc\_GCMS11\12-02-22\120221.D

(DMF) (DHL) (TOL) (BFB)

43527 35359 19116

File	Sample	Surrogate	Recovery %	Internal	Standard	Responses
120213.D	0.02 ppb 8	97	101 100 101	44408	35154	19419
120214.D	0.04 ppb 8	96	102 96 103	45916	36147	19646
120215.D	0.1 ppb 82	102	99 99 100	45253	34919	19347
120216.D	0.2 ppb 82	103	104 102 96	44274	35020	19757
120217.D	0.5 ppb 82	98	93 96 100	45613	35739	19562
120218.D	1 ppb 8260	101	106 99 101	44408	35243	19491
120219.D	2 ppb 8260	99	92 97 100	44600	35263	18806
120220.D	5 ppb 8260	100	99 97 102	45348	35641	19209
120221.D	10 ppb 826	99	101 103 99	43527	35359	19116
120222.D	20 ppb 826	101	101 101 99	43532	34868	19084
120223.D	50 ppb 826	99	105 102 97	42665	34502	18362
120224.D	100 ppb 82	104	95 104 102	41010	33336	17982
120225.D	150 ppb 82	98	100 104 102	42305	33999	18471
120226.D	200 ppb 82	102	102 100 97	41734	34467	18923
120228.D	10 ppb 826	98	95 98 98	44988	35045	19156

(fails) - fails 12hr time check \* - fails criteria

Created: Mon Dec 05 13:48:39 2022 GCMS11

GC/MS QA-QC Check Report

Tune File : D:\Proc\_GCMS11\12-12-22\121223.D

Tune Time : 12 Dec 2022 08:09 pm

Daily Calibration File : D:\Proc\_GCMS11\12-12-22\121236.D

(DMF) (DHL) (TOL) (BFB)

47211 36478 20261

File	Sample	Surrogate	Recovery %				Internal Standard Responses		
121228.D	0.02 ppb	8	103	92	101	96	49049	38410	21826
121229.D	0.04 ppb	8	107	103	102	100	48253	38658	21365
121230.D	0.1 ppb	82	97	102	103	97	49730	39074	21750
121231.D	0.2 ppb	82	99	103	98	99	48767	38819	21245
121232.D	0.5 ppb	82	98	96	101	101	48353	38043	21492
121233.D	1 ppb	8260	98	91	100	99	48931	38342	20582
121234.D	2 ppb	8260	97	100	99	100	48822	38734	21530
121235.D	5 ppb	8260	98	99	98	97	48803	37344	21151
121236.D	10 ppb	826	101	106	98	101	47211	36478	20261
121237.D	20 ppb	826	101	103	99	101	46537	36436	19498
121238.D	50 ppb	826	99	100	103	97	46625	37972	20328
121239.D	100 ppb	82	103	101	99	100	46224	36627	19904
121240.D	150 ppb	82	99	99	100	106	46540	36065	19550
121241.D	200 ppb	82	102	103	100	104	45831	37397	20078
121243.D	10 ppb	826	95	92	96	102	49036	37606	20495

(fails) - fails 12hr time check \* - fails criteria

Created: Thu Dec 15 12:03:39 2022 GCMS11



GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS11\12-08-22\120803.D

Tune Time : 08 Dec 2022 06:13 am

Daily Calibration File : Y:\Proc\_GCMS11\12-08-22\120803.D

(DMF) (DHL) (TOL) (BFB)

43966 35885 19188

File Sample Surrogate Recovery % Internal Standard Responses

120804.D 02-2859 lc 101 99 100 100 43747 35166 19160

120805.D 02-2859 lc 102 103 103 98 43321 34795 18678

120807.D 02-2859 mb 105 101 102 103 44374 35325 18697

No Quant Results for Y:\Proc\_GCMS11\12-08-22\120808.D

120809.D 02-2869 mb 104 97 97 94 43506 33648 19801

120810.D 212004-01 97 100 97 97 45522 36455 19915

120812.D 212113-01 97 98 99 104 45992 35932 19064

120813.D 212083-01 97 97 100 105 46232 36218 19122

120814.D 212104-01 99 102 99 104 45203 36073 18831

120815.D 212104-02 98 101 101 98 44964 35785 19176

120816.D 212104-03 101 91 98 102 45721 35727 19501

120817.D 212104-04 101 98 98 101 45795 35508 19427

120818.D 212104-05 99 98 97 102 45922 36521 19526

120819.D 212104-01 96 103 100 102 45368 35829 18339

(fails) - fails 12hr time check \* - fails criteria

Created: Fri Dec 09 08:52:37 2022 GCMS11

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS13\12-09-22\120903.D

Tune Time : 09 Dec 2022 08:29 am

Daily Calibration File : Y:\Proc\_GCMS13\12-09-22\120903.D

(DMF) (DHL) (TOL) (BFB)

97279 70618 36798

File	Sample	Surrogate Recovery %				Internal Standard Responses		
120906.D	02-2856 mb	79	90	92	130	109440	72778	37964
120907.D	02-2859 mb	79	85	94	130	107629	70337	37467
120908.D	212083-01	80	90	92	130	107181	71880	37266
120909.D	212113-01	81	88	94	125	107587	72159	37986
120910.D	212059-01	80	88	93	129	108365	69593	36832
120911.D	212059-05	86	92	104	125	99243	71071	37956
120912.D	212059-06	77	88	91	128	109014	70832	38400
120913.D	212113-02	90	101	104	128	97334	70171	37376
120914.D	212113-03	81	88	94	128	105953	69487	37088
120915.D	212113-04	86	92	104	131	91818	67123	35354
120916.D	212113-05	88	96	102	129	96292	68414	36754
120917.D	212083-02	86	90	101	134	96012	68798	36325
120918.D	212083-03	80	93	96	128	104546	67297	35476
120919.D	212083-04	89	97	106	128	90201	66992	35635
120920.D	212083-05	88	104	103	130	89660	66239	35202
120921.D	212083-06	85	98	121	124	89733	65940	35920
120922.D	212083-07	84	93	126	126	91550	65422	34705

(fails) - fails 12hr time check \* - fails criteria

Created: Tue Dec 13 11:25:27 2022 GCMS13

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS11\12-14-22\121403.D

Tune Time : 14 Dec 2022 05:44 am

Daily Calibration File : Y:\Proc\_GCMS11\12-14-22\121403.D

(DMF) (DHL) (TOL) (BFB)

47985 37060 19799

File	Sample	Surrogate Recovery %				Internal Standard Responses		
121404.D	02-2959 1c	105	98	99	102	47338	36588	20144
121405.D	02-2959 1c	103	100	100	96	47398	37087	20348
121407.D	02-2959 mb	98	93	96	102	49871	36592	18780
121409.D	212213-01	98	92	101	102	49596	38135	20978
121410.D	212213-02	101	96	100	102	49107	38163	21022
121411.D	212213-03	99	96	98	99	49887	39602	21807
121412.D	212213-04	103	93	99	99	48486	38389	21425
121413.D	212213-05	100	94	99	100	49657	38327	21278
121414.D	212083-04	101	92	99	99	49593	37940	20634
121415.D	212083-05	99	94	97	99	48671	38195	21381
121416.D	212083-06	102	99	104	96	47485	37202	20780
121417.D	212083-07	102	94	103	99	46669	36732	19875
121418.D	212113-04	100	98	99	99	47239	37214	21216
121419.D	212113-05	101	102	98	101	48303	37405	20524
121421.D	212212-01	104	101	103	101	48608	39502	21528
121422.D	212131-01	97	95	99	100	49315	37695	21167
121423.D	212131-02	102	96	99	102	49238	38164	21036
121424.D	212131-03	99	94	98	100	49887	38162	21399
121425.D	212131-05	94	104	95	96	50746	38230	22057

-----  
121426.D  
212131-06 104 97 102 94 49213 38740 21953  
-----

121427.D  
212131-07 101 97 98 100 49644 38711 21300  
-----

121428.D  
212131-04 107 105 100 92 47829 38105 21764  
-----

121429.D  
212213-01 101 94 100 104 48569 37319 19679  
-----

(fails) - fails 12hr time check \* - fails criteria

Created: Thu Dec 15 07:55:58 2022 GCMS11

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS11\12-15-22\121513.D

Tune Time : 15 Dec 2022 09:24 am

Daily Calibration File : Y:\Proc\_GCMS11\12-15-22\121513.D

(DMF) (DHL) (TOL) (BFB)

47662 37405 20171

File	Sample	Surrogate Recovery %				Internal Standard Responses		
121514.D	02-2961 1c	101	104	99	101	47800	37823	20675
121515.D	02-2961 1c	99	95	99	96	48765	38202	20870
121516.D	212108-01	100	104	100	97	47564	38031	21158
121517.D	212108-01	102	95	97	93	47818	36560	20334
121520.D	02-2963 mb	103	103	98	104	49551	38784	20703
121521.D	212076-01	98	95	99	99	50049	39097	20906
121522.D	212113-05	97	98	95	100	49698	39006	21028
121523.D	212108-03	99	96	97	98	49035	37442	20802
121524.D	212108-04	100	95	98	100	49494	38556	21050
121526.D	212230-01	98	93	96	103	49874	38344	21049
121527.D	212230-02	103	95	97	100	47386	36336	20658
121528.D	212197-01	98	101	99	103	48494	38342	20723
121529.D	212197-02	98	100	94	105	48987	36311	19879
121530.D	212197-03	101	93	104	107	46925	37616	20205
121531.D	212197-04	97	101	98	98	48838	38304	21745
121532.D	02-2965 1c	100	102	98	100	48734	38050	20428
121533.D	02-2965 1c	100	100	96	100	47973	36326	20000
121534.D	212117-01	101	94	98	99	48257	36922	19571
121535.D	212108-01	103	95	98	96	47327	36242	20951

## GC/MS QA-QC Check Report

Tune File : Y:\Proc\_GCMS11\12-16-22\121603.D

Tune Time : 16 Dec 2022 09:29 am

Daily Calibration File : Y:\Proc\_GCMS11\12-16-22\121603.D

(DMF) (DHL) (TOL) (BFB)

47723 36681 19869

File	Sample	Surrogate Recovery %				Internal	Standard	Responses
121604.D	212176-09	99	93	97	101	47675	37033	20504
121606.D	212176-09	101	96	99	100	47287	36888	20121
121608.D	212230-02	96	99	98	98	48547	37797	20249
121609.D	212273-04	98	101	97	98	48906	36773	20924
121610.D	212273-05	97	94	100	99	48449	36550	20013
121611.D	212113-02	101	103	99	94	49133	38108	21490
121612.D	02-2969 1c	104	95	96	97	46784	36646	19904
121613.D	02-2969 1c	101	96	97	100	48182	36471	19647
121615.D	02-2969 mb	102	97	97	95	49771	38084	21310
121616.D	212108-05	99	93	97	98	49116	37888	21740

(fails) - fails 12hr time check \* - fails criteria

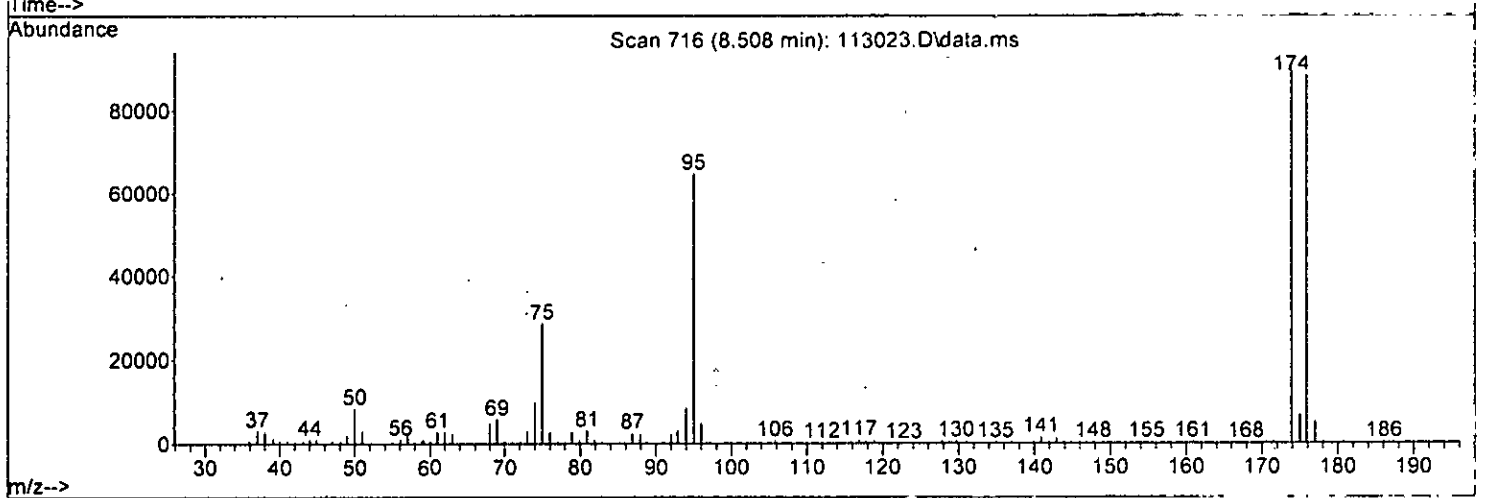
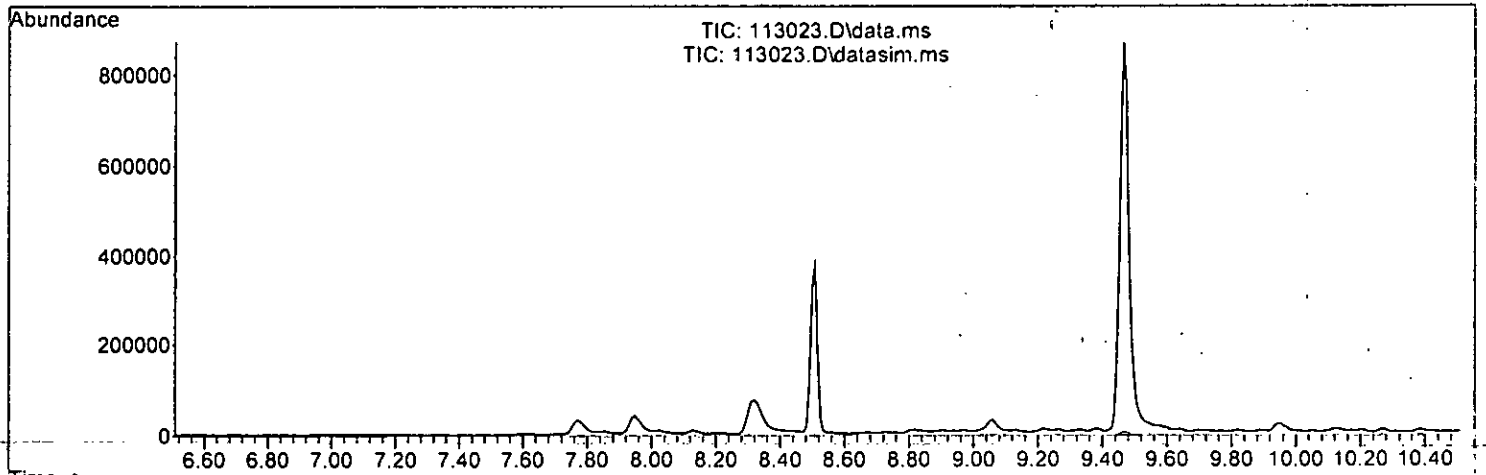
Created: Mon Dec 19 11:35:59 2022 GCMS11

**EPA 8260D**  
**Tune Summaries**

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113023.D  
 Acq On : 30 Nov 2022 07:39 pm  
 Operator : LM  
 Sample : 50 ng BFB 67-156A  
 Misc : direct inject  
 ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: LSCINT.P  
 Integration File signal 2: rteint2.p

Method : Y:\Methods\Inst13\VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:14:23 2022



AutoFind: Scan 716 (Apex of m/z 95.0)

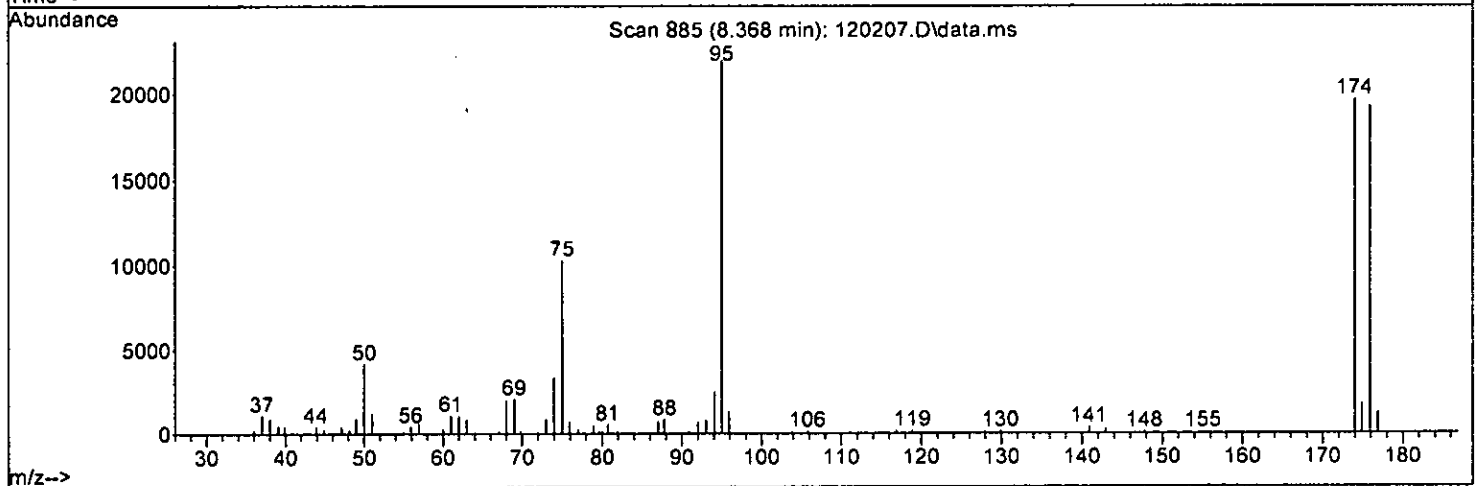
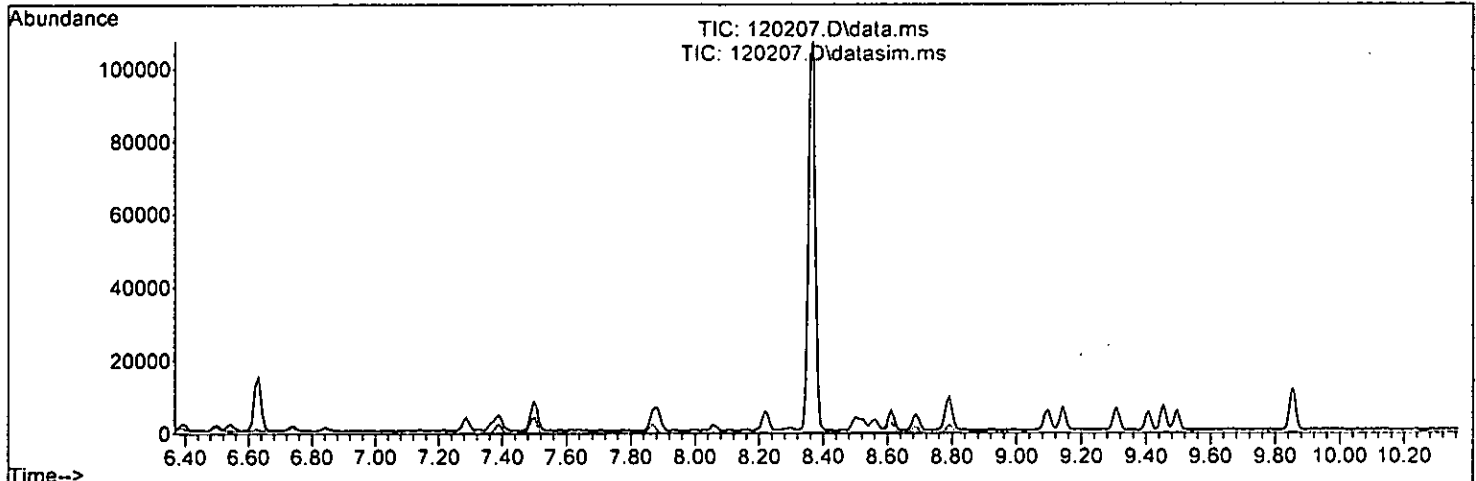
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	72.2	64672	PASS
96	95	5	9	7.2	4660	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	138.4	89520	PASS
175	174	5	9	7.5	6716	PASS
176	174	95	105	98.6	88256	PASS
177	176	5	10	5.8	5079	PASS



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120207.D  
 Acq On : 02 Dec 2022 06:48 pm  
 Operator : LM  
 Sample : 50 ng BFB 67-156A  
 Misc : direct inject  
 ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: LSCINT.P  
 Integration File signal 2: rteint2.p

Method : Y:\Methods\Inst11\VB120222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022



AutoFind: Scan 885 (Apex of m/z 95.0)

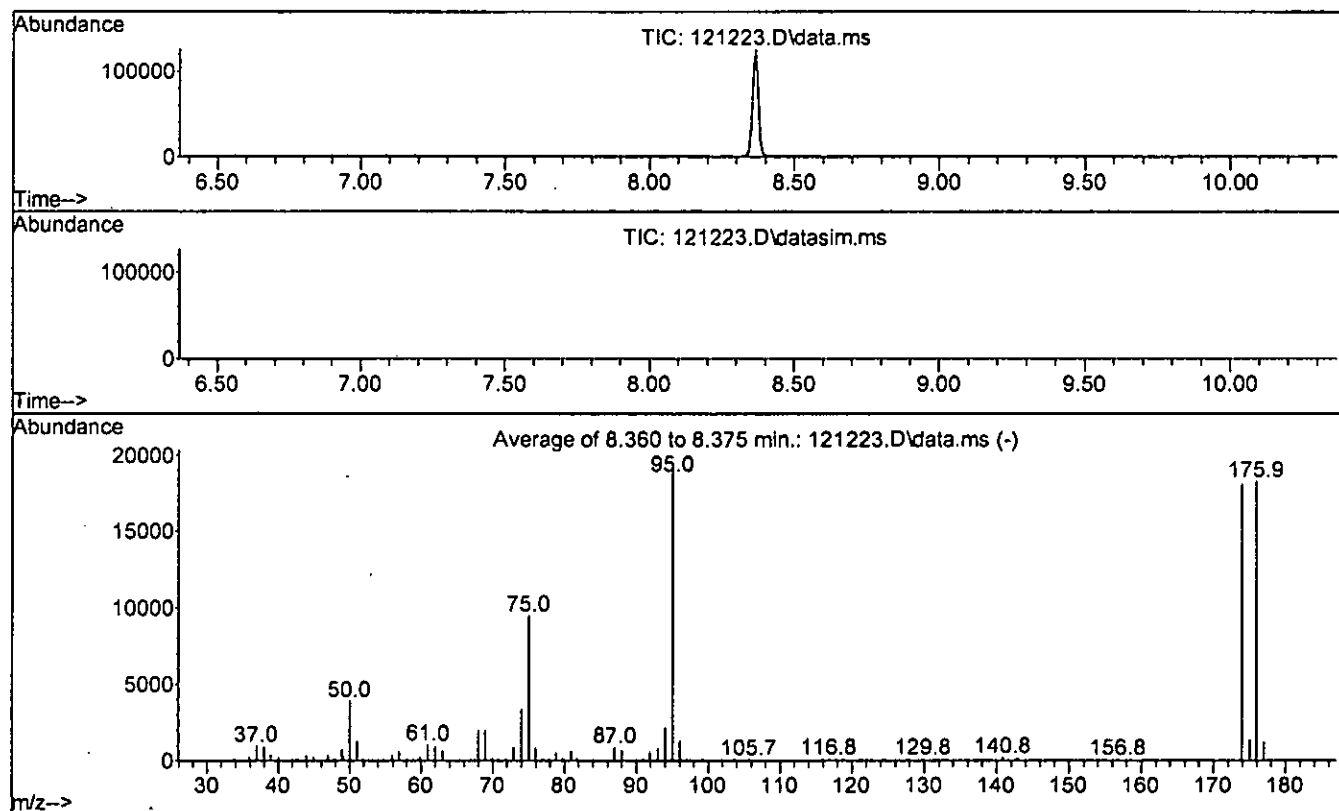
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	111.8	22008	PASS
96	95	5	9	5.8	1276	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	89.4	19680	PASS
175	174	5	9	8.7	1718	PASS
176	174	95	105	98.0	19280	PASS
177	176	5	10	6.2	1200	PASS

BFB

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121223.D  
Acq On : 12 Dec 2022 08:09 pm  
Operator : LM  
Sample : 50 ng BFB 67-152A  
Misc : direct inject  
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: LSCINT.P  
Integration File signal 2: rteint2.p

Method : D:\Methods\Inst11\VB121222ms11.M  
Title : 8260 Purge & Trap Volatiles Dual Acquisition  
Last Update : Tue Dec 13 13:28:26 2022



AutoFind: Scans 884, 885, 886; Background Corrected with Scan 878

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	107.0	19289	PASS
96	95	5	9	6.6	1269	PASS
173	174	0.00	2	0.4	80	PASS
174	95	50	200	93.5	18031	PASS
175	174	5	9	7.5	1347	PASS
176	174	95	105	101.0	18217	PASS
177	176	5	10	6.6	1201	PASS

**EPA 8260D**  
**Initial Calibrations**

Method Path : Y:\Methods\Inst13\  
 Method File : VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:14:23 2022  
 Response Via : Initial Calibration

Calibration Files  
 0.02=-113030.D 0.1 =113032.D 0.2 =113033.D 0.5 =113034.D 1 =113035.D 2 =113036.D 5 =113037.D 10 =113038.D 20 =113039.D 50 =113040.D  
 100 =113041.D 150 =113042.D 200 =113043.D

Compound	0.02	0.1	0.2	0.5	1	2	5	10	20	50	100	150	200	Avg	%RSD	
1) I Fluorobenzene															0.000#	-1.00
2) TMP Ethanol																
3) S Dibromofluorom...	0.306	0.313	0.316	0.337	0.318	0.310	0.304	0.332	0.336	0.346	0.312	0.307	0.305	0.319	4.44	
4) TMP Dichlorodifluo...			0.599	0.660	0.529	0.549	0.524	0.603	0.597	0.624	0.582	0.598	0.544	0.582	7.25	
5) TMP Chloromethane					0.405	0.429	0.357	0.401	0.373	0.401	0.380	0.380	0.348	0.386	6.61	
6) TMP Vinyl chloride	0.334	0.342	0.338	0.367	0.341	0.369	0.357	0.434	0.407	0.422	0.391	0.391	0.358	0.373	8.90	
7) TMP Bromomethane						0.349	0.430	0.435	0.420	0.394	0.366	0.357	0.331	0.385	10.39	
8) TMP Chloroethane					0.213	0.196	0.191	0.182	0.219	0.207	0.214	0.199	0.196	0.200	6.59	
9) TMP Trichlorofluor...					0.968	0.999	0.915	1.070	1.076	1.102	1.026	1.035	0.947	1.015	6.21	
10) TMP 2-Propanol															0.000	-1.00
11) TMP Acetone					0.023	0.022	0.019	0.023	0.023	0.024	0.024	0.021	0.018	0.022	9.68	
12) TMP 1,1-Dichloroet...	0.283	0.227	0.236	0.260	0.241	0.238	0.225	0.271	0.263	0.267	0.241	0.243	0.226	0.248	7.60	
13) TMP Hexane					0.269	0.250	0.214	0.249	0.229	0.238	0.229	0.226	0.225	0.236	7.10	
14) TMP Methylene chlo...						0.339	0.257	0.257	0.237	0.240	0.222	0.218	0.206	0.247	16.76	
15) TMP t-Butyl alcoho...					0.027	0.023	0.020	0.023	0.023	0.023	0.021	0.021	0.020	0.022#	9.39	
16) TMP Methyl t-butyl...	0.602	0.542	0.608	0.647	0.597	0.599	0.578	0.650	0.623	0.636	0.576	0.566	0.520	0.596	6.58	
17) TMP trans-1,2-Dich...	0.290	0.254	0.288	0.295	0.279	0.269	0.254	0.296	0.282	0.290	0.261	0.263	0.246	0.274	6.40	
18) TMP Diisopropyl et...			0.555	0.540	0.520	0.506	0.486	0.611	0.571	0.535	0.540	0.521	0.482	0.533	6.97	
19) TMP 1,1-Dichloroet...	0.323	0.309	0.341	0.369	0.348	0.344	0.323	0.385	0.361	0.366	0.329	0.327	0.303	0.341	7.20	
20) TMP Ethyl t-butyl ...			0.293	0.296	0.283	0.282	0.278	0.303	0.293	0.304	0.283	0.281	0.262	0.287	4.25	
21) TMP 2,2-Dichloropr...			0.548	0.469	0.239	0.260	0.221	0.269	0.278	0.279	0.247	0.248	0.214	0.297	36.33	
22) TMP cis-1,2-Dichlo...	0.319	0.265	0.295	0.329	0.299	0.293	0.277	0.327	0.306	0.313	0.282	0.283	0.263	0.296	7.43	
23) TMP Chloroform			0.492	0.475	0.441	0.431	0.404	0.462	0.449	0.464	0.422	0.423	0.393	0.441	6.90	
24) TMP 2-Butanone (MEK)					0.116	0.099	0.107	0.087	0.111	0.108	0.108	0.102	0.098	0.102	9.64	
25) TMP t-Amyl methyl ...			0.555	0.599	0.557	0.539	0.522	0.590	0.564	0.584	0.529	0.530	0.490	0.551	5.97	
26) TMP 1,2-Dichloroet...	0.594	0.324	0.348	0.337	0.331	0.309	0.301	0.337	0.317	0.320	0.289	0.282	0.258	0.334	24.55	
27) TMP 1,1,1-Trichlor...	0.488	0.413	0.456	0.508	0.473	0.470	0.446	0.511	0.486	0.500	0.456	0.456	0.419	0.468	6.66	
28) TMP 1,1-Dichloropr...			0.402	0.331	0.339	0.319	0.299	0.331	0.314	0.321	0.293	0.294	0.279	0.320	10.35	
29) TMP Carbon tetrach...			0.516	0.530	0.483	0.479	0.446	0.505	0.506	0.535	0.497	0.501	0.469	0.497	5.31	
30) S 1,2-Dichloroet...	0.062	0.056	0.058	0.064	0.058	0.061	0.059	0.062	0.062	0.064	0.055	0.055	0.061	0.060	5.08	
31) TMP Benzene			1.061	0.779	0.830	0.907	0.854	0.835	0.794	0.897	0.855	0.879	0.801	0.849	9.37	
32) TMP Trichloroethene	0.283	0.263	0.302	0.340	0.317	0.312	0.279	0.340	0.325	0.332	0.296	0.304	0.258	0.304	8.99	
33) TMP 1,2-Dichloropr...			0.242	0.260	0.187	0.184	0.169	0.188	0.176	0.183	0.168	0.166	0.156	0.189	17.18	
34) TMP Bromodichlorom...			0.326	0.378	0.307	0.292	0.290	0.331	0.314	0.333	0.311	0.311	0.288	0.316	8.11	
35) S Toluene-d8	0.860	0.837	0.874	0.948	0.857	0.847	0.890	0.949	0.954	0.938	0.922	0.892	0.917	0.899	4.63	
36) TMP Dibromomethane			0.158	0.190	0.179	0.172	0.163	0.185	0.175	0.183	0.170	0.168	0.157	0.173	6.30	
37) TMP 4-Methyl-2-pen...			0.044	0.035	0.041	0.037	0.041	0.040	0.042	0.041	0.040	0.037	0.040	0.040	7.02	

Response Factor Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 38) TMP cis-1,3-Dichlo... 0.307 0.365 0.335 0.323 0.302 0.336 0.332 0.346 0.329 0.328 0.310 0.329 5.55

39) I	Chlorobenzene-d5	-----ISTD-----										
40) TMP Toluene	0.930 0.600	0.760 0.711 0.736 0.722 0.684 0.702 0.677 0.720 0.694 0.701 0.647 0.719	9.78									
41) TMP trans-1,3-Dich...	0.454 0.313 0.358 0.351 0.340 0.344 0.336 0.366 0.355 0.365 0.331 0.356	10.16										
42) TMP 1,1,2-Trichlor...	0.273 0.209 0.208 0.201 0.207 0.201 0.191 0.199 0.190 0.200 0.194 0.179 0.204	10.99										
43) TMP 2-Hexanone	0.143 0.158 0.145 0.142 0.139 0.133 0.143 0.146 0.140 0.127 0.142	5.72										
44) TMP 1,3-Dichloropr...	0.337 0.390 0.363 0.345 0.326 0.340 0.331 0.336 0.326 0.298 0.338	6.92										
45) TMP Tetrachloroethene	0.630 0.427 0.458 0.438 0.455 0.444 0.413 0.425 0.410 0.433 0.416 0.418 0.443	13.36										
46) TMP Dibromochlorom...	0.396 0.399 0.443 0.421 0.405 0.423 0.410 0.450 0.447 0.461 0.421 0.445	5.20										
47) TMP 1,2-Dibromoeth...	0.485 0.306 0.326 0.331 0.342 0.333 0.316 0.328 0.317 0.335 0.325 0.320 0.295 0.335	13.88										
48) TMP Chlorobenzene	0.971 0.979 0.959 0.982 0.881 0.940 0.899 0.974 0.938 0.965 0.886 0.943	4.02										
49) TMP Ethylbenzene	4.331 1.678 1.520 1.376 1.395 1.348 1.261 1.301 1.233 1.288 1.220 1.216 1.112 1.560	54.19										
50) TMP 1,1,1,2-Tetrac...	0.445 0.399 0.411 0.417 0.382 0.405 0.403 0.425 0.422 0.435 0.396 0.413	4.45										
51) TMP m,p-Xylene	2.210 0.790 0.703 0.621 0.623 0.599 0.554 0.568 0.537 0.559 0.535 0.539 0.493 0.718	63.44										
52) TMP o-Xylene	1.181 0.618 0.613 0.582 0.598 0.581 0.541 0.558 0.531 0.558 0.540 0.548 0.500 0.611	28.53										
53) TMP Styrene	0.930 0.835 0.907 0.865 0.824 0.838 0.801 0.861 0.835 0.856 0.783 0.848	5.02										
54) TMP Isopropylbenzene	1.388 1.379 1.429 1.419 1.274 1.345 1.292 1.375 1.339 1.379 1.265 1.353	4.11										
55) TMP Bromoform	0.272 0.289 0.302 0.284 0.285 0.297 0.292 0.320 0.328 0.341 0.317 0.302	7.10										

56) I	1,4-Dichlorobenzen...	-----ISTD-----										
57) S	4-BromoFluorob...	0.618 0.623 0.616 0.630 0.612 0.615 0.589 0.608 0.607 0.585 0.594 0.595 0.586 0.606	2.43									
58) TMP	n-Propylbenzene	2.573 2.428 2.471 2.311 2.170 2.218 2.138 2.189 2.185 2.137 2.011 2.257	7.49									
59) TMP	Bromobenzene	0.874 0.803 0.877 0.831 0.772 0.809 0.798 0.829 0.834 0.828 0.779 0.821	4.12									
60) TMP	1,3,5-Trimethy...	1.995 1.945 1.921 1.868 1.751 1.776 1.770 1.824 1.828 1.802 1.713 1.836	4.78									
61) TMP	1,1,2,2-Tetrac...	0.440 0.459 0.485 0.440 0.438 0.417 0.401 0.412 0.427 0.406 0.433 0.433#	5.65									
62) TMP	1,2,3-Trichlor...	0.343 0.429 0.345 0.327 0.311 0.339 0.317 0.330 0.333 0.329 0.308 0.337#	9.73									
63) TMP	2-Chlorotoluene	1.301 1.305 1.404 1.387 1.266 1.270 1.240 1.269 1.257 1.243 1.166 1.282	5.22									
64) TMP	4-Chlorotoluene	1.750 1.637 1.656 1.615 1.482 1.548 1.479 1.532 1.505 1.475 1.392 1.552	6.62									
65) TMP	tert-Butylbenzene	2.280 1.956 2.053 1.956 1.792 1.901 1.829 1.936 1.940 1.939 1.825 1.946	6.84									
66) TMP	1,2,4-Trimethy...	2.429 2.065 2.045 1.967 1.817 1.882 1.839 1.926 1.953 1.952 1.851 1.975	8.62									
67) TMP	sec-Butylbenzene	2.383 2.419 2.465 2.460 2.252 2.354 2.307 2.441 2.463 2.473 2.336 2.396	3.12									
68) TMP	p-Isopropyltol...	2.418 2.413 2.452 2.394 2.246 2.341 2.314 2.469 2.492 2.494 2.365 2.400	3.26									
69) TMP	1,3-Dichlorobe...	1.579 1.527 1.583 1.468 1.399 1.448 1.412 1.468 1.478 1.483 1.392 1.476	4.42									
70) TMP	1,4-Dichlorobe...	1.567 1.497 1.500 1.460 1.398 1.433 1.404 1.454 1.462 1.462 1.375 1.456	3.71									
71) TMP	1,2-Dichlorobe...	1.611 1.461 1.529 1.432 1.307 1.370 1.339 1.402 1.426 1.428 1.337 1.422	6.27									
72) TMP	1,2-Dibromo-3-...	0.099 0.094 0.093 0.093 0.084 0.084 0.085 0.089 0.092 0.093 0.087 0.091	5.27									
73) TMP	1,2,4-Trichlor...	1.031 0.960 1.006 0.980 0.923 0.980 0.980 0.950 1.015 1.045 1.058 1.021 0.997	4.23									
74) TMP	Hexachlorobuta...	0.692 0.627 0.591 0.572 0.530 0.530 0.559 0.543 0.592 0.592 0.603 0.565 0.588	7.52									
75) TMP	Naphthalene	2.205 1.968 1.862 1.895 1.840 1.769 1.862 1.835 1.973 2.043 2.054 1.954 1.938	6.24									
76) TMP	1,2,3-Trichlor...	0.760 0.832 0.824 0.775 0.709 0.749 0.747 0.798 0.829 0.846 0.810 0.789	5.54									

(#) = Out of Range

## Compound List Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:14:23 2022  
 Response Via : Initial Calibration

Total Cpnds : 76

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I Fluorobenzene	96	4.74	1.000	A	1	A	B
2	T Ethanol	45	2.33	0.492	A	1	A	B
3	S Dibromofluoromethane	113	4.17	0.882	A	0	A	B
4	T Dichlorodifluoromethane	85	1.11	0.234	A	1	A	B
5	T Chloromethane	50	1.25	0.264	A	1	A	B
6	T Vinyl chloride	-62	1.33	0.280	A	1	A	B
7	T Bromomethane	94	1.57	0.332	A	1	A	B
8	T Chloroethane	-64	1.64	0.346	A	1	A	B
9	T Trichlorofluoromethane	101	1.83	0.386	A	1	A	B
10	T 2-Propanol	45	2.33	0.492	A	1	A	B
11	T Acetone -	58	2.32	0.490	Q	1	A	B
12	T 1,1-Dichloroethene	-96	2.26	0.478	A	2	A	B
13	T Hexane -	57	3.16	0.667	L	2	A	B
14	T Methylene chloride -	84	2.68	0.566	Q	2	A	B
15	T t-Butyl alcohol (TBA)	59	2.81	0.593	A	1	A	B
16	T Methyl t-butyl ether (MTBE)	-73	2.92	0.618	A	1	A	B
17	T trans-1,2-Dichloroethene	-96	2.91	0.615	A	2	A	B
18	T Diisopropyl ether (DIPE)	45	3.34	0.706	A	3	A	B
19	T 1,1-Dichloroethane	-63	3.27	0.692	A	2	A	B
20	T Ethyl t-butyl ether (ETBE)	87	3.65	0.771	A	3	A	B
21	T 2,2-Dichloropropane -	77	3.76	0.795	L	1	A	B
22	T cis-1,2-Dichloroethene	-96	3.77	0.796	A	2	A	B
23	T Chloroform	83	4.04	0.853	A	1	A	B
24	T 2-Butanone (MEK) -	43	3.78	0.799	Q	2	A	B
25	T t-Amyl methyl ether (TAME)	73	4.61	0.974	A	2	A	B
26	T 1,2-Dichloroethane (EDC)-	-62	4.52	0.954	L	1	A	B
27	T 1,1,1-Trichloroethane	-97	4.19	0.885	A	2	A	B
28	T 1,1-Dichloropropene	75	4.33	0.915	A	2	A	B
29	T Carbon tetrachloride	117	4.33	0.915	A	1	A	B
30	S 1,2-Dichloroethane-d4	102	4.46	0.941	A	1	A	B
31	T Benzene -	-78	4.50	0.951	L	1	A	B
32	T Trichloroethene	-95	5.05	1.067	A	3	A	B
33	T 1,2-Dichloropropane -	63	5.24	1.107	L	1	A	B
34	T Bromodichloromethane	83	5.48	1.158	A	2	A	B
35	S Toluene-d8	98	6.11	1.289	A	1	A	B
36	T Dibromomethane	93	5.34	1.127	A	2	A	B
37	T 4-Methyl-2-pentanone	85	6.01	1.269	A	2	A	B
38	T cis-1,3-Dichloropropene	75	5.88	1.241	A	2	A	B
39	I Chlorobenzene-d5	117	7.41	1.000	A	1	A	B
40	T Toluene -	-92	6.16	0.832	L	1	A	B
41	T trans-1,3-Dichloropropene	75	6.36	0.859	A	2	A	B
42	T 1,1,2-Trichloroethane -	-83	6.53	0.881	L	2	A	B
43	T 2-Hexanone	43	6.76	0.913	A	3	A	B
44	T 1,3-Dichloropropane	76	6.67	0.901	A	1	A	B
45	T Tetrachloroethene-	-164	6.65	0.898	Q	3	A	B
46	T Dibromochloromethane	129	6.87	0.928	A	1	A	B
47	T 1,2-Dibromoethane (EDB)-	-107	6.97	0.941	L	2	A	B
48	T Chlorobenzene	112	7.43	1.003	A	2	A	B
49	T Ethylbenzene -	-91	7.54	1.018	L	1	A	B
50	T 1,1,1,2-Tetrachloroethane	131	7.51	1.014	A	2	A	B
51	T m,p-Xylene -	-106	7.65	1.033	L	1	A	B
52	T o-Xylene -	-106	8.02	1.083	L	1	A	B
53	T Styrene	104	8.03	1.085	A	1	A	B
54	T Isopropylbenzene	105	8.37	1.130	A	1	A	B
55	T Bromoform	173	8.20	1.107	A	2	A	B

56	I	1,4-Dichlorobenzene-d4	152	9.62	1.000	A	2	A	B
57	S	4-Bromofluorobenzene	95	8.51	0.884	A	2	A	B
58	T	n-Propylbenzene	91	8.77	0.911	A	1	A	B
59	T	Bromobenzene	156	8.65	0.898	A	2	A	B
60	T	1,3,5-Trimethylbenzene	105	8.94	0.929	A	1	A	B
61	T	1,1,2,2-Tetrachloroethane	83	8.66	0.900	L	2	A	B
62	T	1,2,3-Trichloropropane	75	8.70	0.904	A	3	A	B
63	T	2-Chlorotoluene	91	8.84	0.918	A	1	A	B
64	T	4-Chlorotoluene	91	8.95	0.930	A	1	A	B
65	T	tert-Butylbenzene	119	9.25	0.961	A	2	A	B
66	T	1,2,4-Trimethylbenzene	105	9.30	0.966	A	1	A	B
67	T	sec-Butylbenzene	105	9.46	0.983	A	1	A	B
68	T	p-Isopropyltoluene	119	9.61	0.999	A	2	A	B
69	T	1,3-Dichlorobenzene	146	9.56	0.994	A	2	A	B
70	T	1,4-Dichlorobenzene	146	9.64	1.002	A	2	A	B
71	T	1,2-Dichlorobenzene	146	10.01	1.040	A	2	A	B
72	T	1,2-Dibromo-3-chloropropane	75	10.77	1.120	A	2	A	B
73	T	1,2,4-Trichlorobenzene	180	11.59	1.204	A	2	A	B
74	T	Hexachlorobutadiene	225	11.77	1.223	A	2	A	B
75	T	Naphthalene	128	11.83	1.230	A	2	A	B
76	T	1,2,3-Trichlorobenzene	180	12.08	1.255	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

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VB113022msl3.M Thu Dec 01 12:46:39 2022

Calibration Status Report GCMS13

Method Path : Y:\Methods\Inst13\  
 Method File : VB113022ms13.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Thu Dec 01 12:14:23 2022  
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.02	10	10	Y:\Proc_GCMS13\11-30-22\113030.D
3	0.1	10	10	Y:\Proc_GCMS13\11-30-22\113032.D
4	0.2	10	10	Y:\Proc_GCMS13\11-30-22\113033.D
5	0.5	10	10	Y:\Proc_GCMS13\11-30-22\113034.D
6	1	10	10	Y:\Proc_GCMS13\11-30-22\113035.D
7	2	10	10	Y:\Proc_GCMS13\11-30-22\113036.D
8	5	10	10	Y:\Proc_GCMS13\11-30-22\113037.D
9	10	10	10	Y:\Proc_GCMS13\11-30-22\113038.D
10	20	10	10	Y:\Proc_GCMS13\11-30-22\113039.D
11	50	10	10	Y:\Proc_GCMS13\11-30-22\113040.D
12	100	10	10	Y:\Proc_GCMS13\11-30-22\113041.D
13	150	10	10	Y:\Proc_GCMS13\11-30-22\113042.D

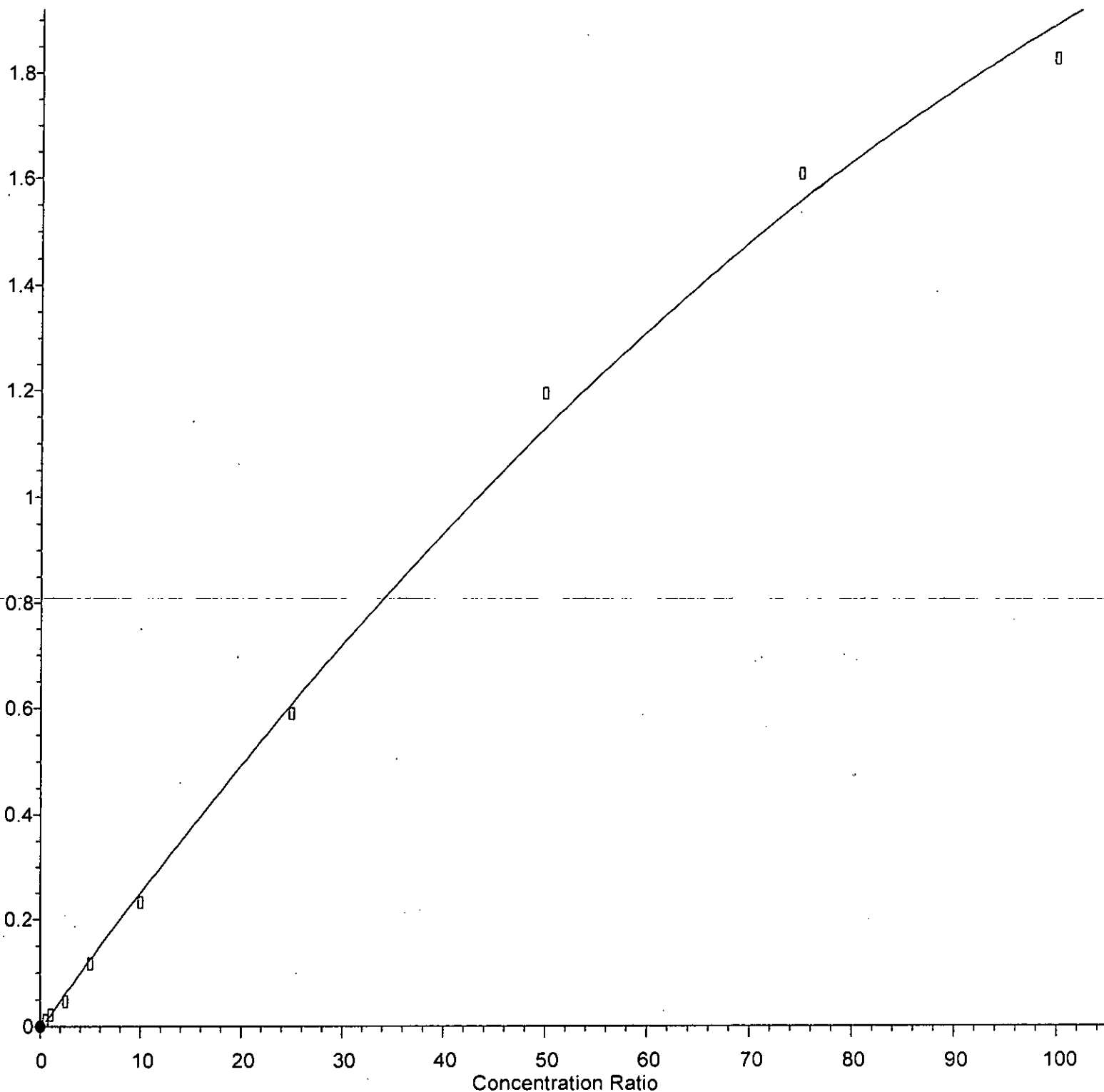
#	ID	Update Time	Quant Time	Acquisition Time
1	0.02	Dec 01 08:17 2022	Dec 01 07:33 2022	30 Nov 2022 10:43 pm
3	0.1	Dec 01 08:17 2022	Dec 01 07:44 2022	30 Nov 2022 11:29 pm
4	0.2	Dec 01 08:17 2022	Dec 01 07:47 2022	30 Nov 2022 11:52 pm
5	0.5	Dec 01 08:17 2022	Dec 01 07:50 2022	01 Dec 2022 12:15 am
6	1	Dec 01 08:17 2022	Dec 01 07:53 2022	01 Dec 2022 12:39 am
7	2	Dec 01 08:17 2022	Dec 01 07:55 2022	01 Dec 2022 01:02 am
8	5	Dec 01 08:17 2022	Dec 01 07:57 2022	01 Dec 2022 01:25 am
9	10	Dec 01 08:17 2022	Dec 01 08:09 2022	01 Dec 2022 01:49 am
10	20	Dec 01 08:17 2022	Dec 01 07:26 2022	01 Dec 2022 02:12 am
11	50	Dec 01 08:17 2022	Dec 01 07:26 2022	01 Dec 2022 02:35 am
12	100	Dec 01 08:17 2022	Dec 01 07:26 2022	01 Dec 2022 02:58 am
13	150	Dec 01 08:17 2022	Dec 01 07:26 2022	01 Dec 2022 03:22 am

VB113022ms13.M Thu Dec 01 12:46:49 2022



Acetone

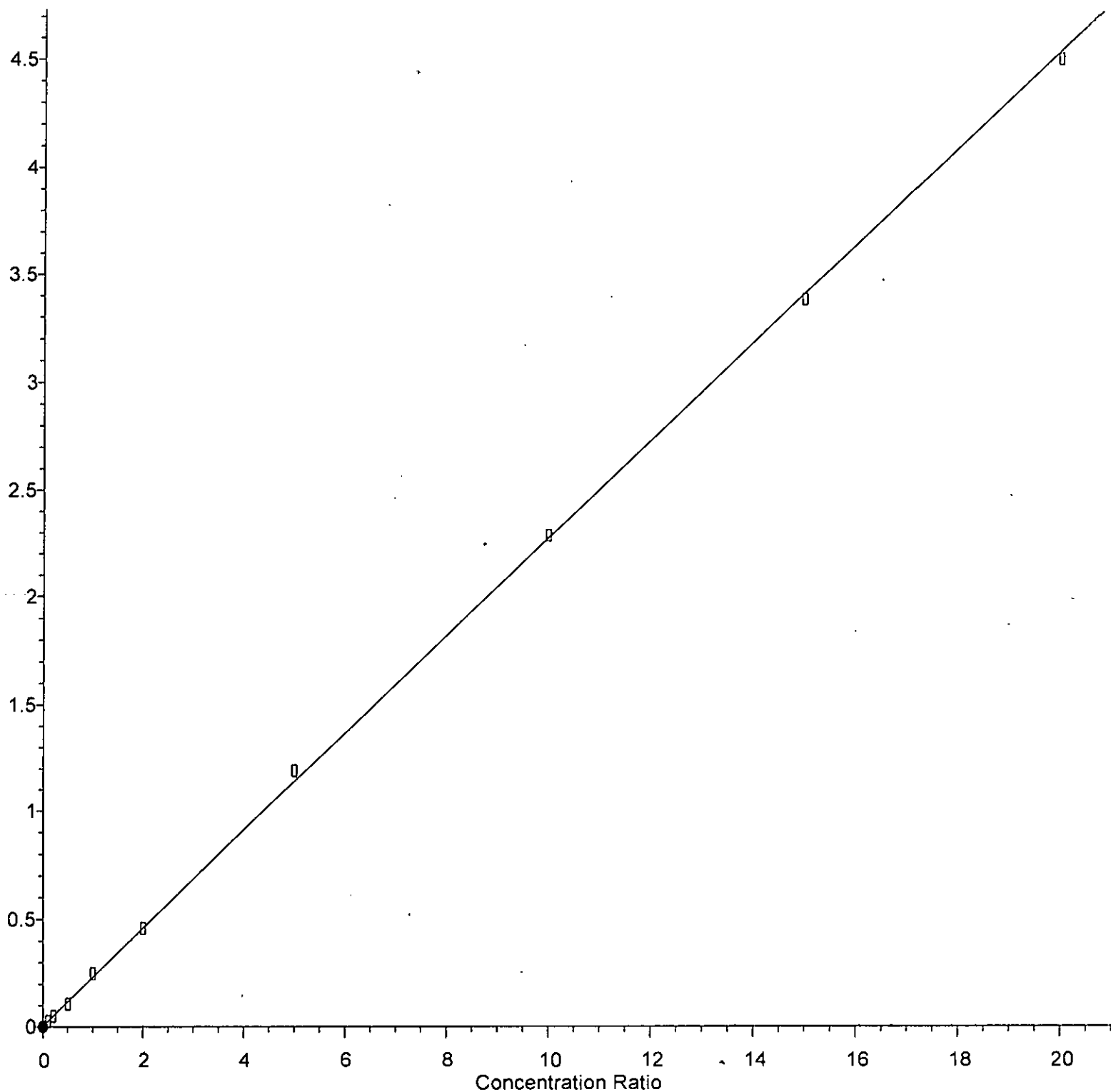
Response Ratio



$R = -7.360e-005 A^2 + 2.635e-002 A - 5.122e-003$   
Coef of Det ( $r^2$ ) = 0.997069 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Hexane

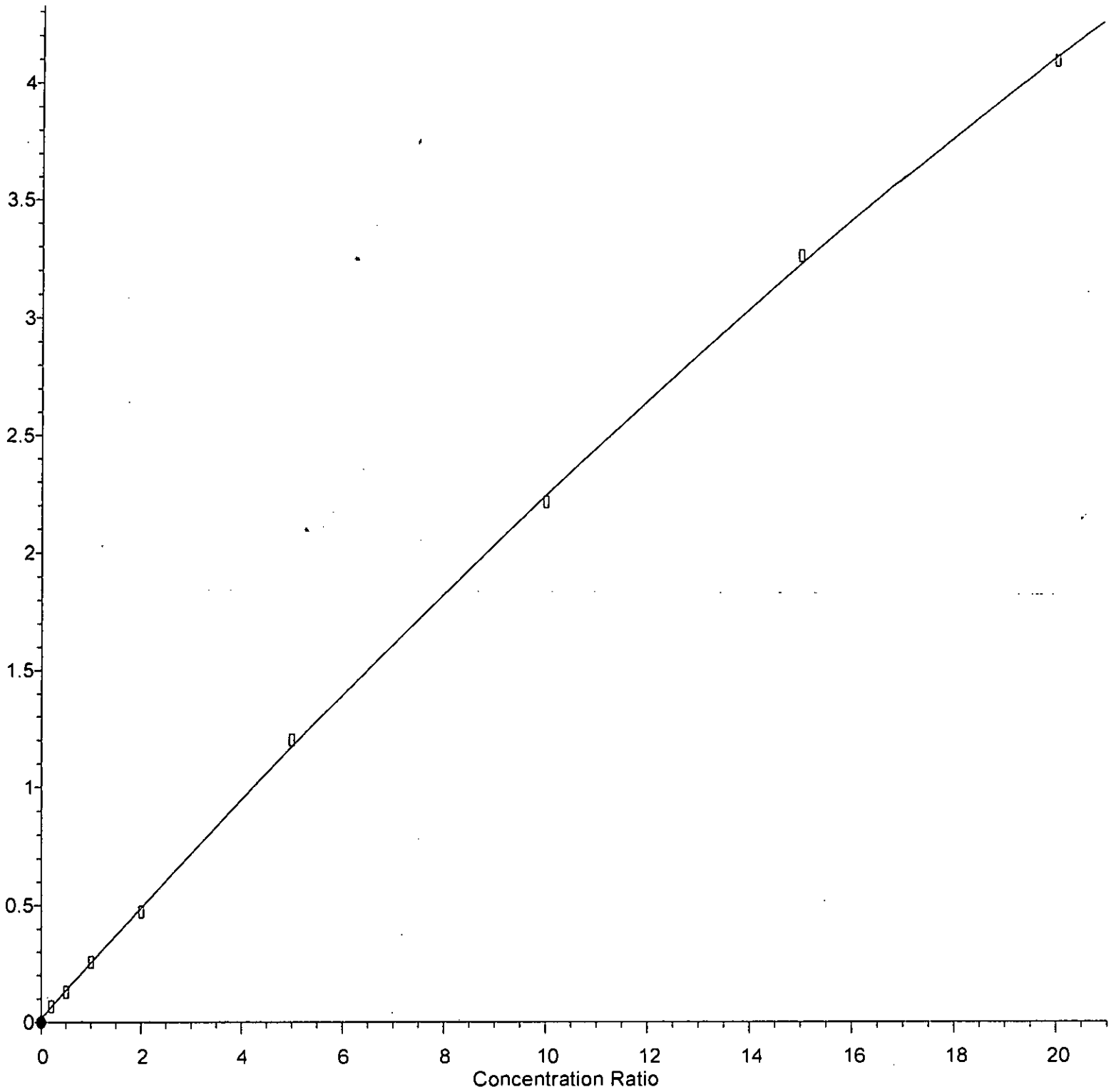
Response Ratio



Response = 2.271e-001 \* Amt + 4.451e-003  
Coef of Det (r^2) = 0.999512 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Methylene chloride

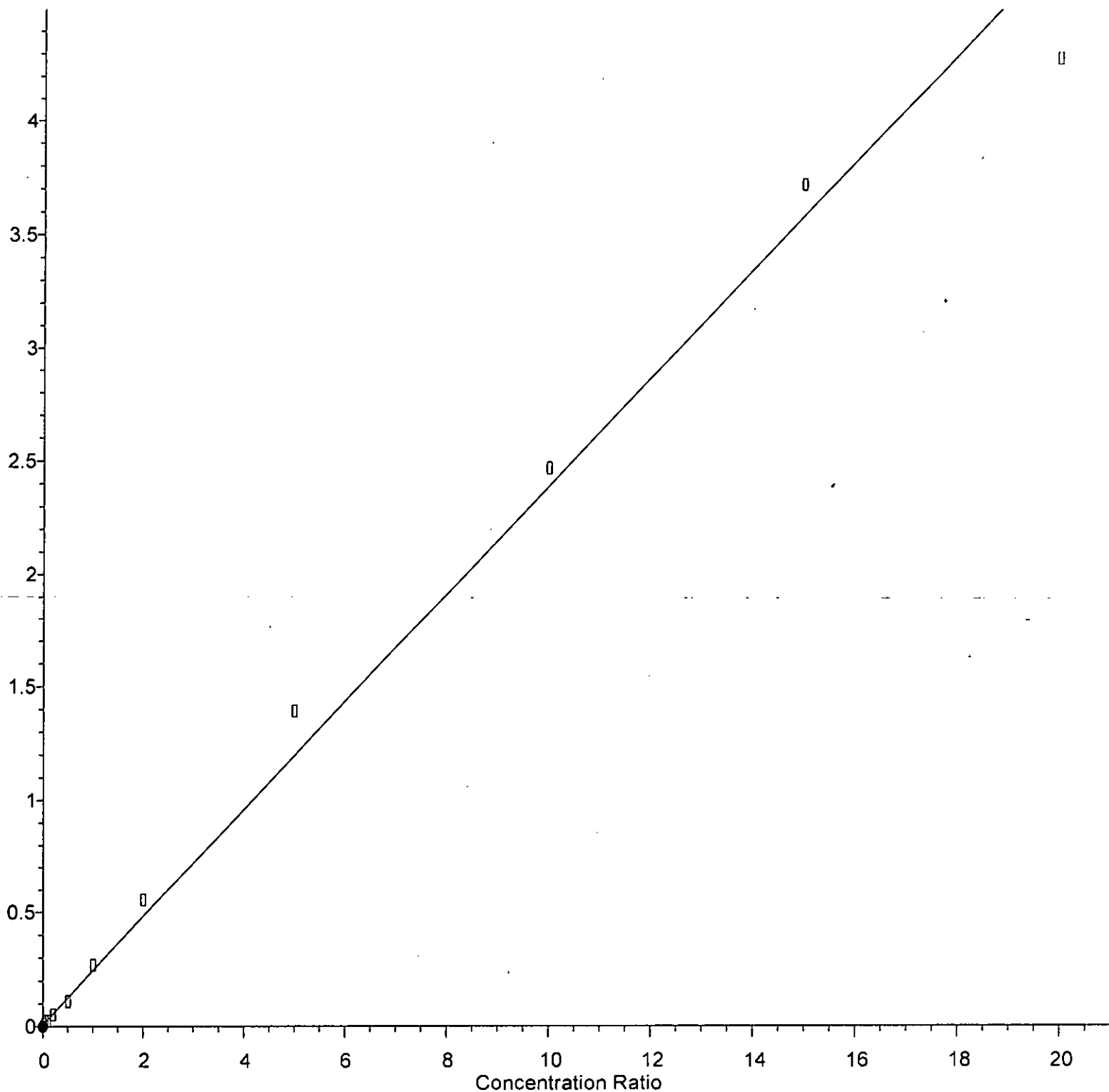
Response Ratio



$R = -1.698e-003 A^2 + 2.399e-001 A + 1.659e-002$   
Coef of Det ( $r^2$ ) = 0.999706 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

2,2-Dichloropropane

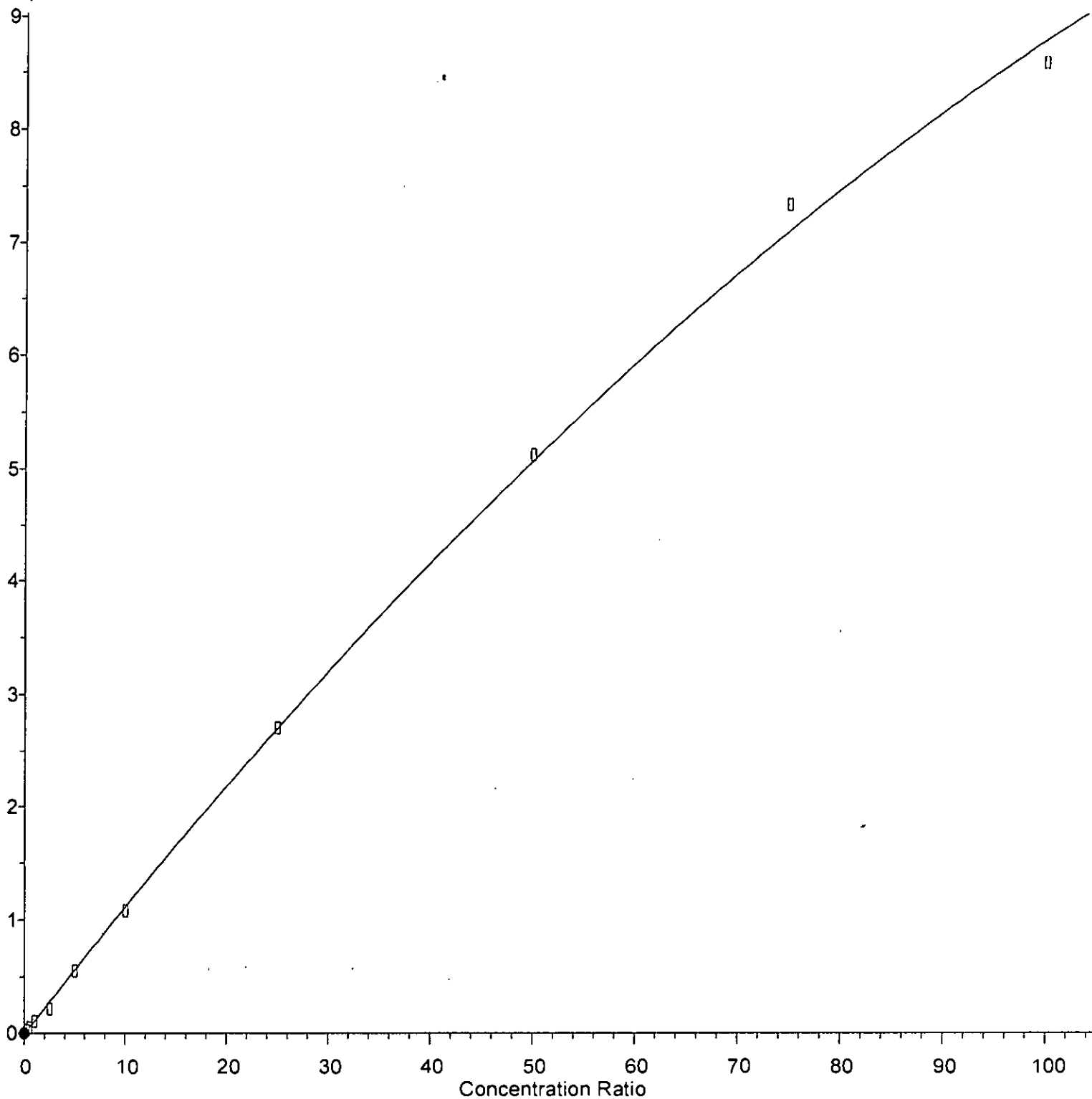
Response Ratio



Response = 2.380e-001 \* Amt + 7.346e-003  
Coef of Det (r^2) = 0.991273 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

2-Butanone (MEK)

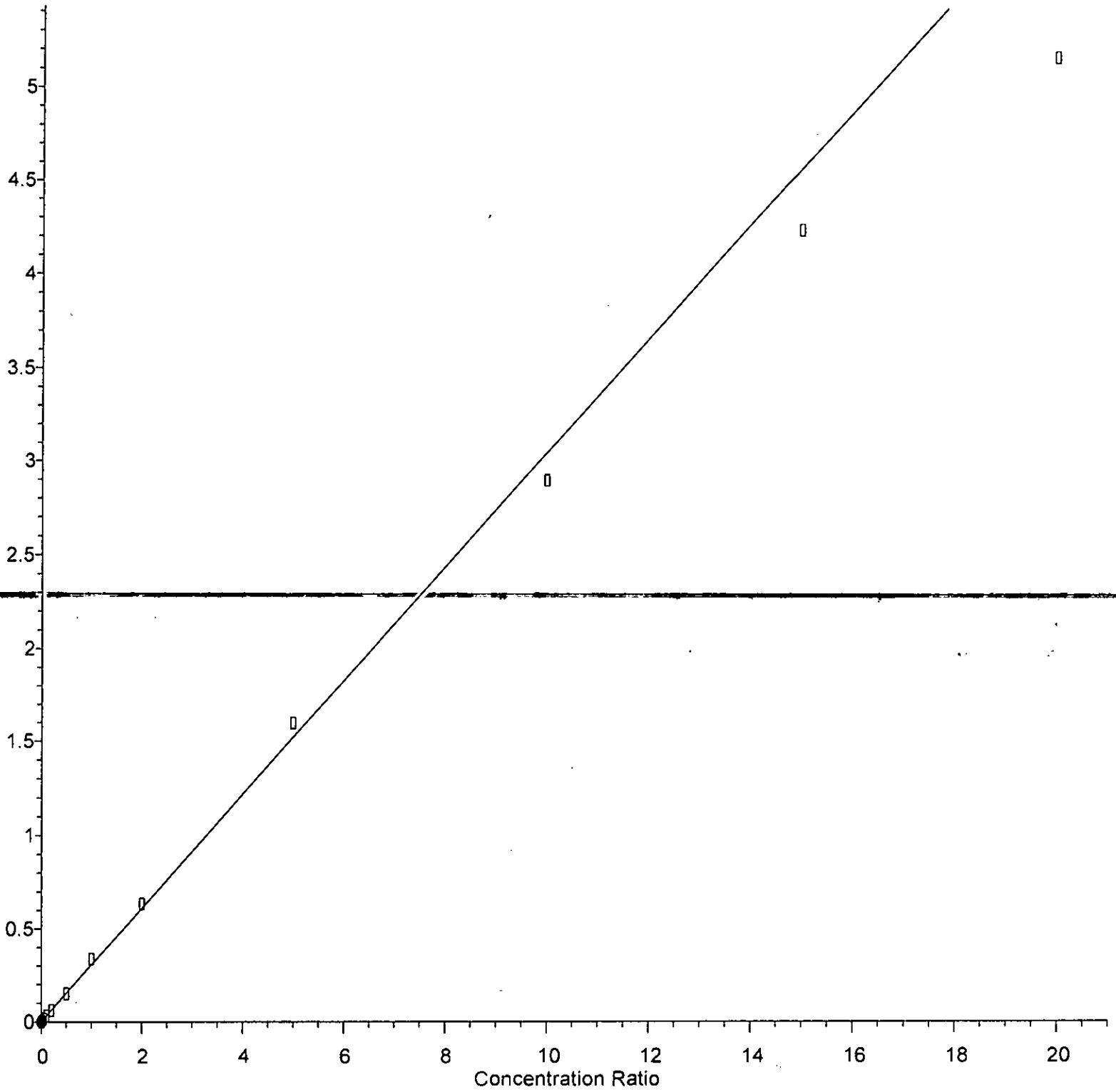
Response Ratio



$R = -2.690e-004 A^2 + 1.150e-001 A - 7.036e-003$   
Coef of Det ( $r^2$ ) = 0.998724 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,2-Dichloroethane (EDC)

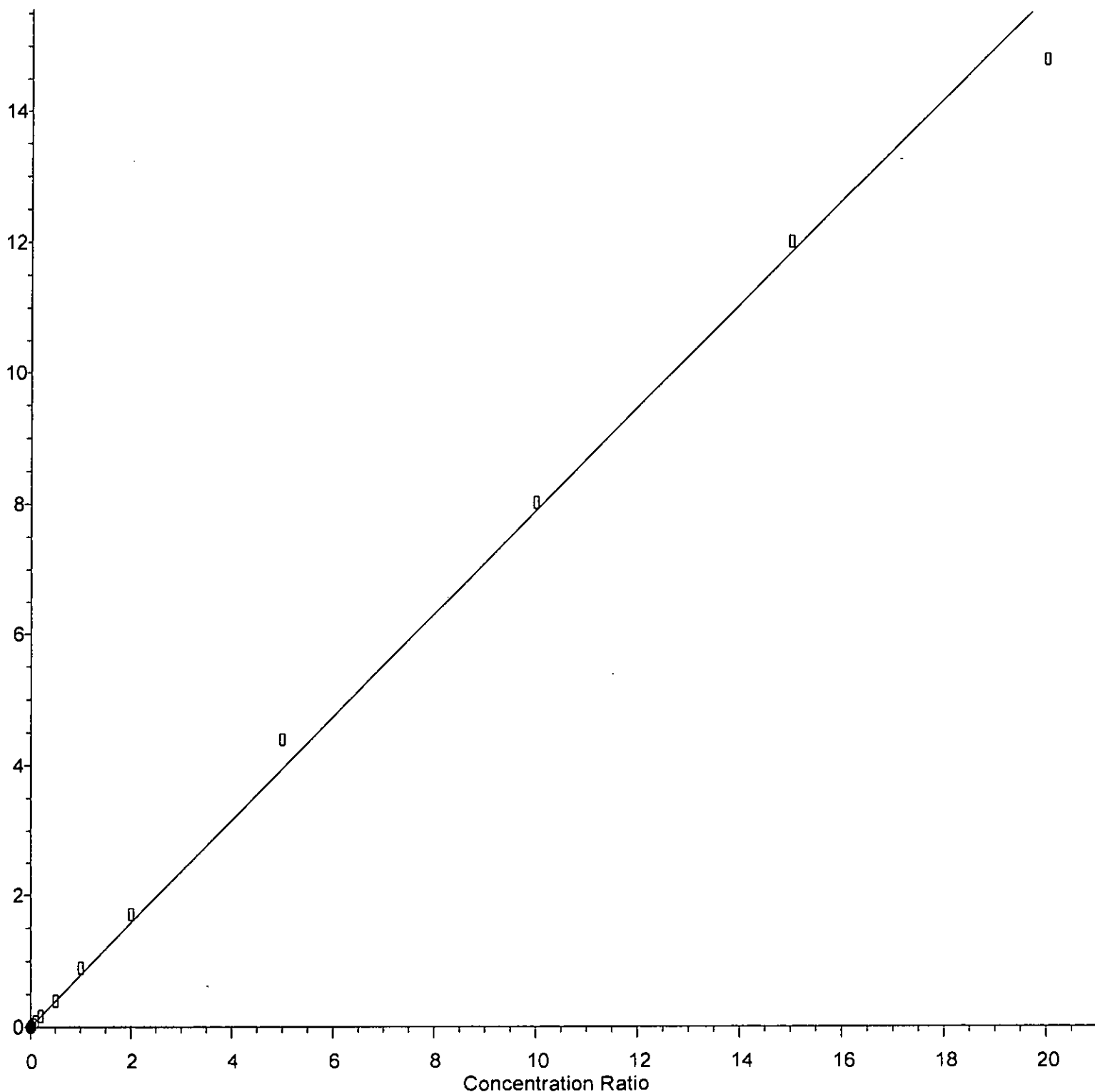
Response Ratio



Response = 3.041e-001 \* Amt + 5.717e-004  
Coef of Det (r^2) = 0.993435 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Benzene

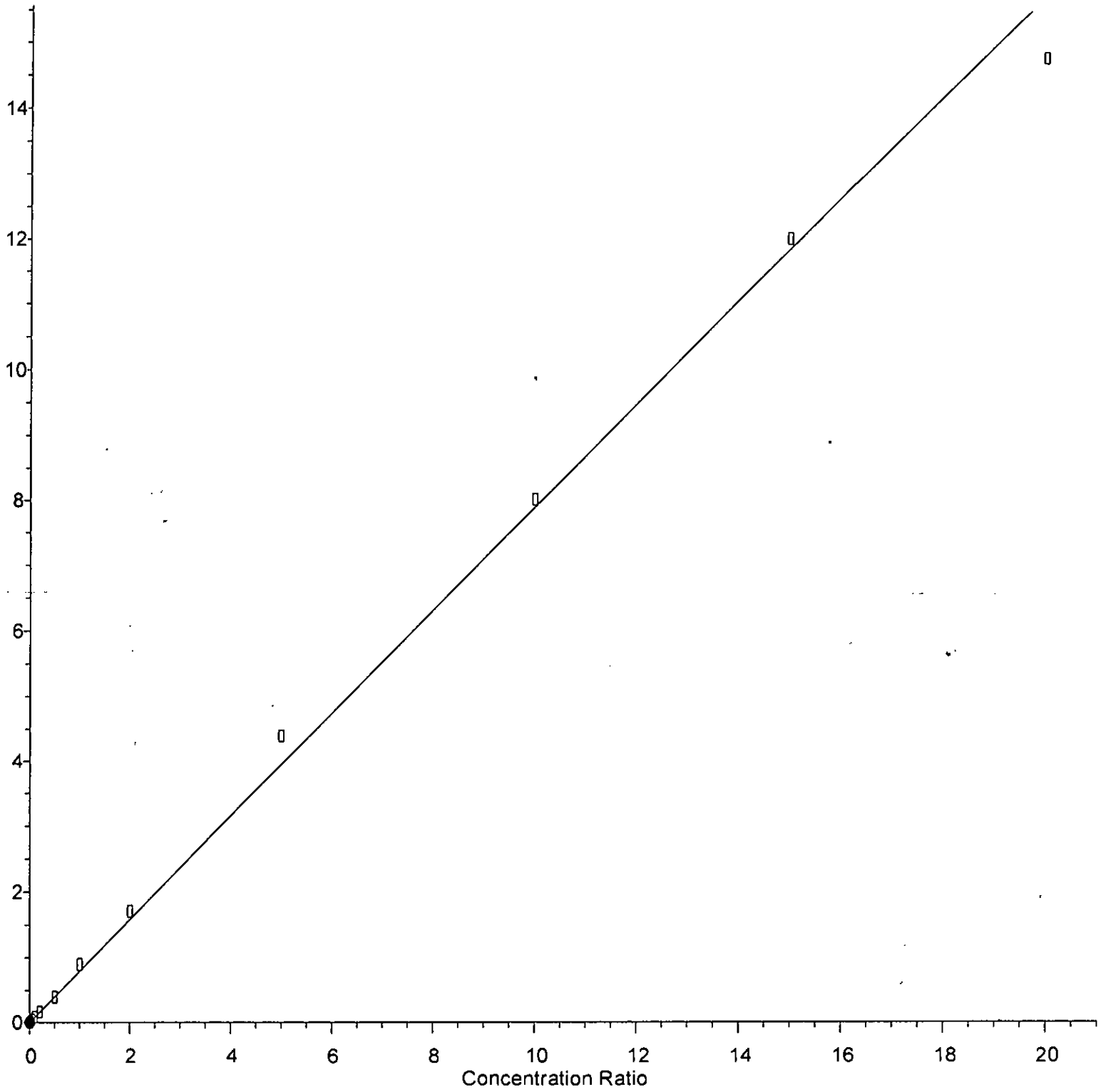
Response Ratio



Response = 7.901e-001 \* Amt + 1.110e-003  
Coef of Det (r^2) = 0.996690 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Benzene

Response Ratio

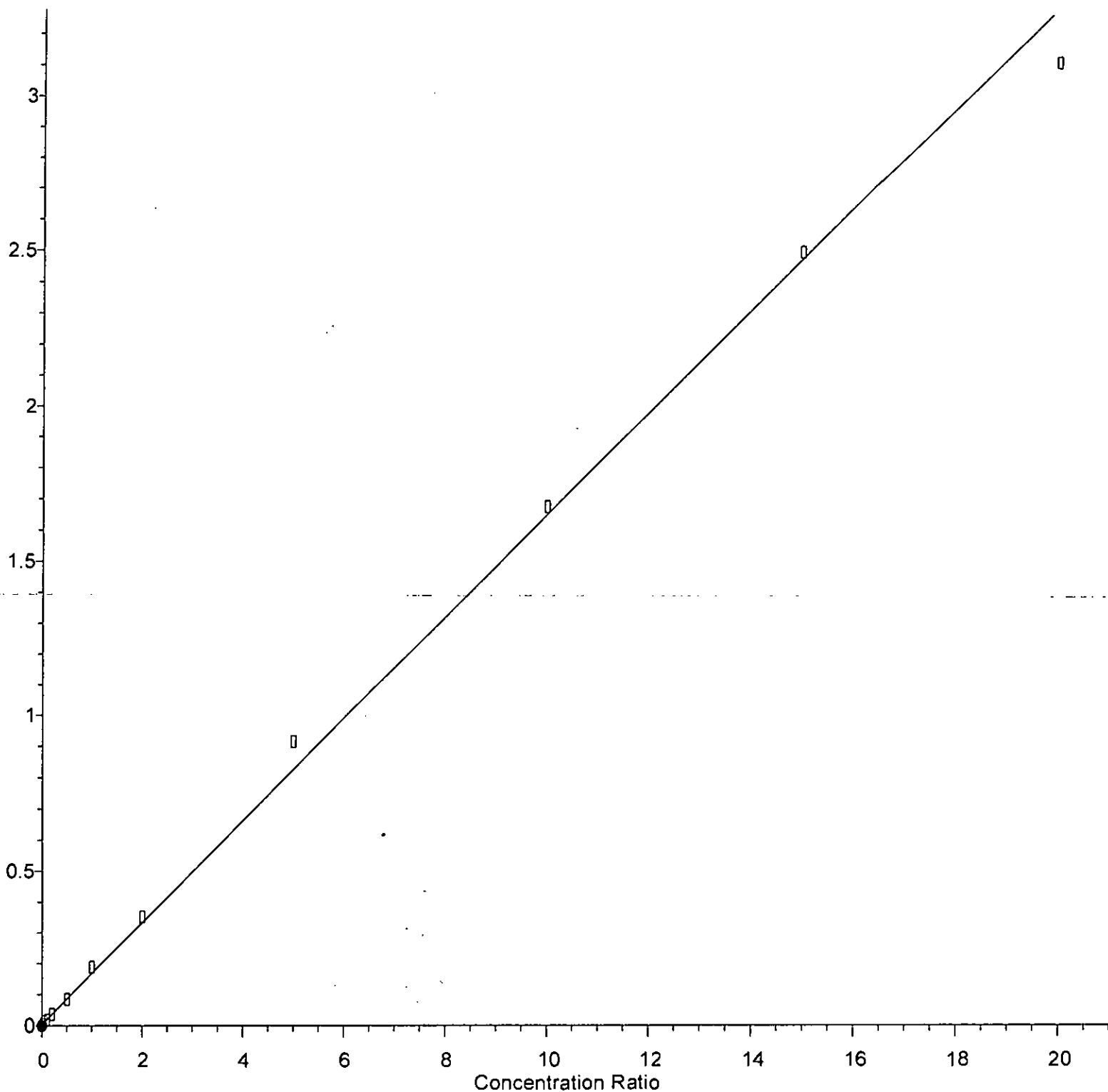


Response = 7.901e-001 \* Amt + 1.110e-003  
Coef of Det (r^2) = 0.996690 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022



1,2-Dichloropropane

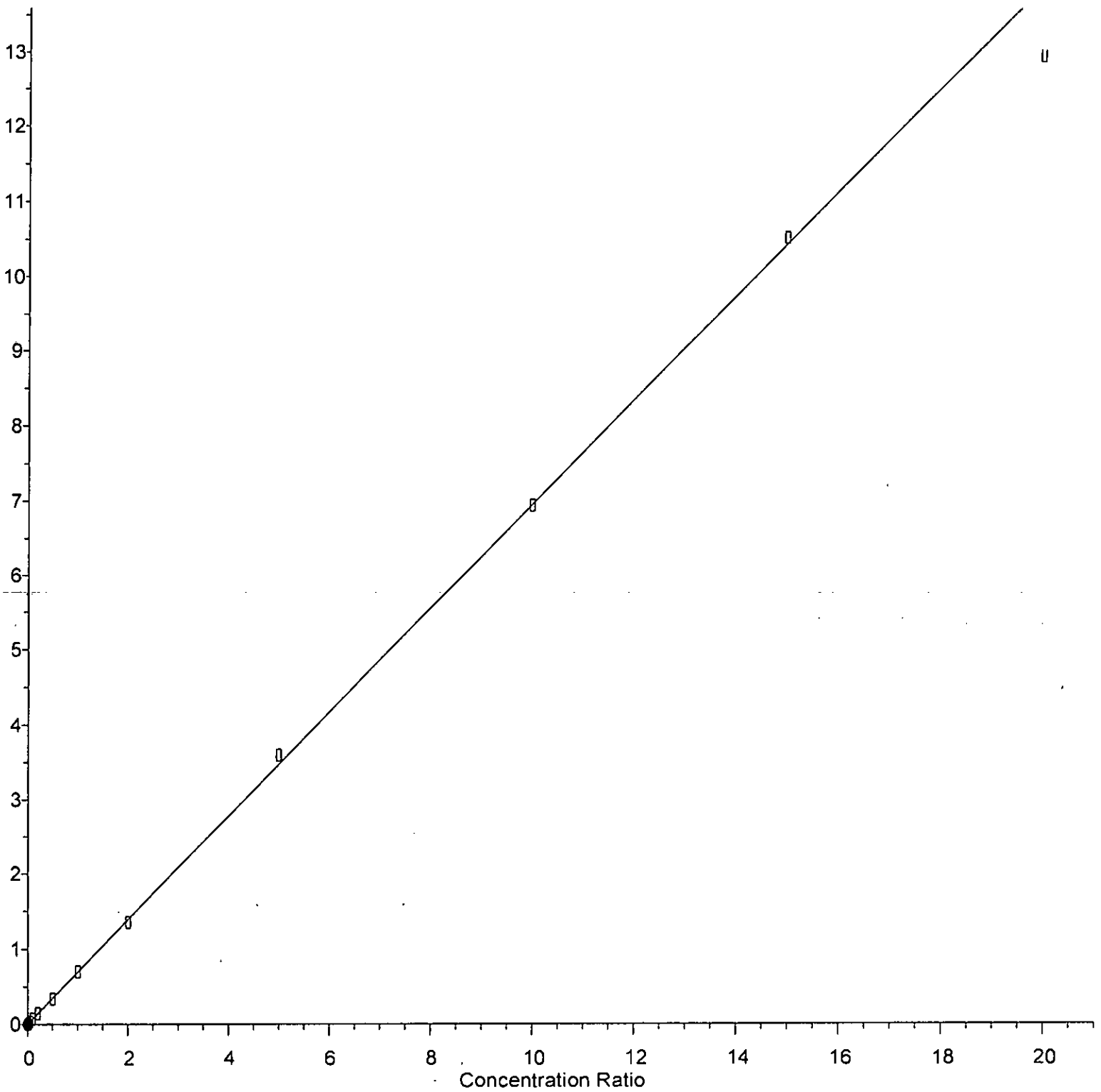
Response Ratio



Response = 1.647e-001 \* Amt + 3.010e-003  
Coef of Det (r^2) = 0.997143 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Toluene

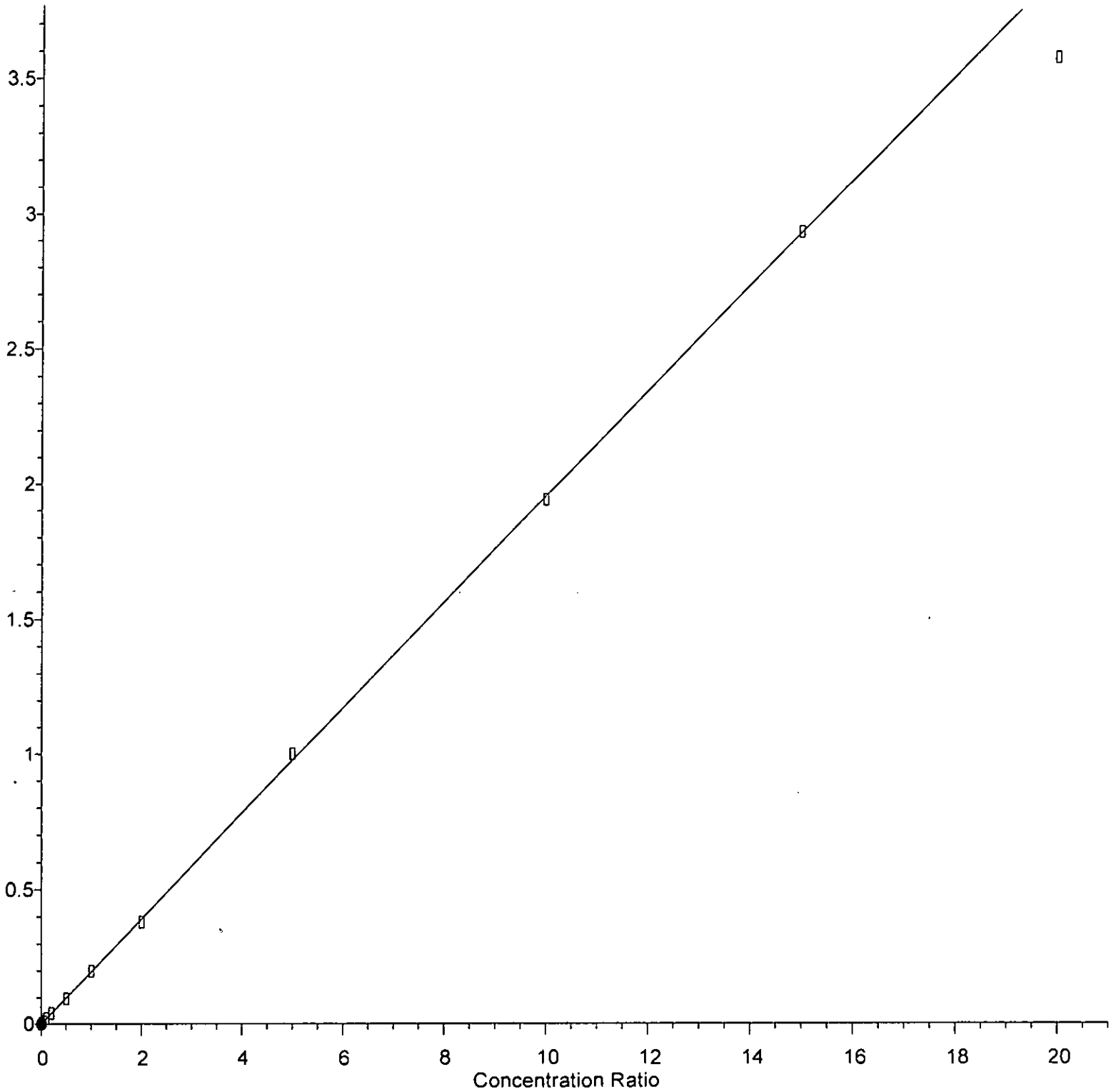
Response Ratio



Response = 6.949e-001 \* Amt + 4.485e-004  
Coef of Det (r^2) = 0.997458 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,1,2-Trichloroethane

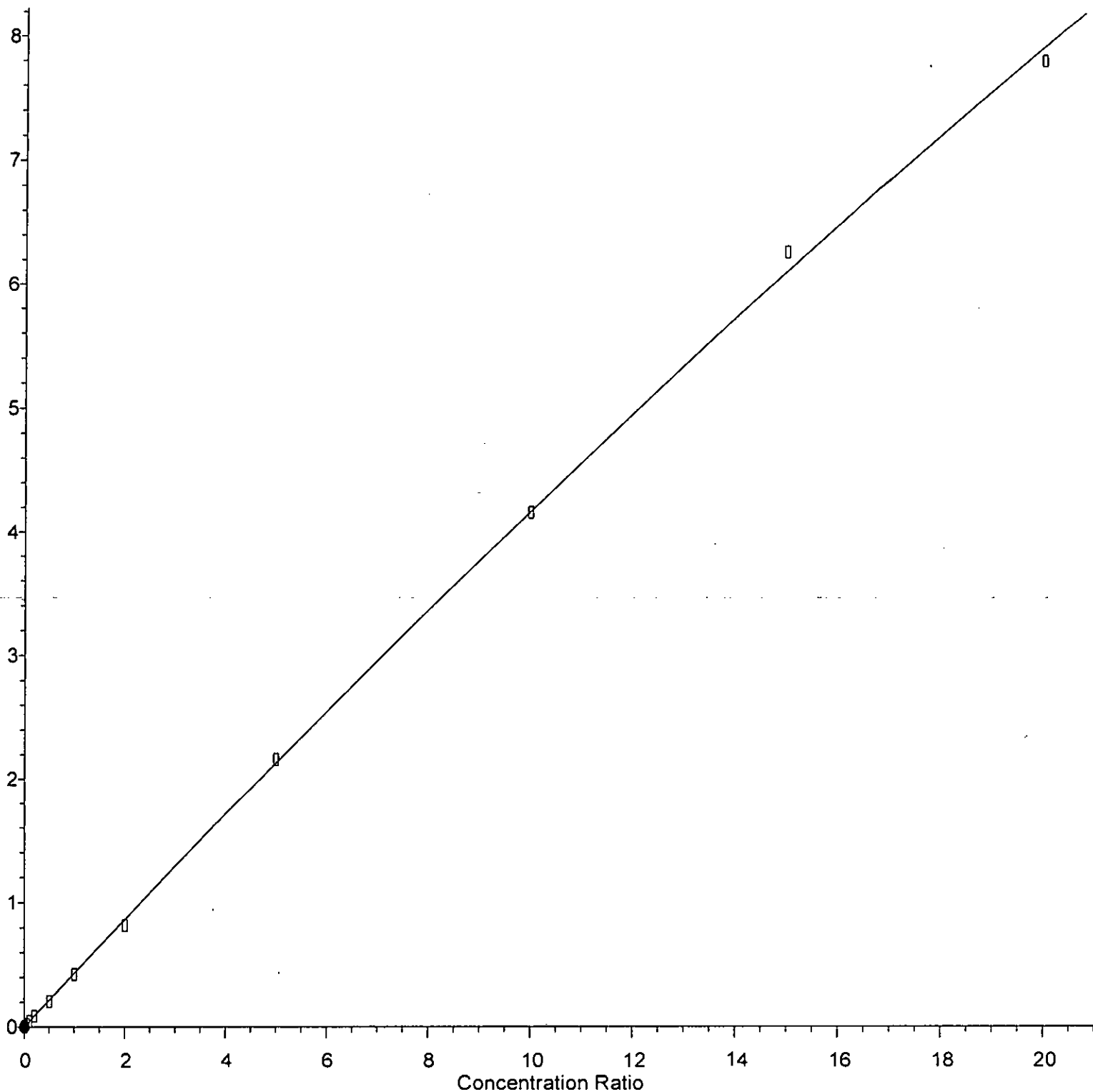
Response Ratio



Response = 1.955e-001 \* Amt + 1.561e-004  
Coef of Det (r^2) = 0.998845 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Tetrachloroethene

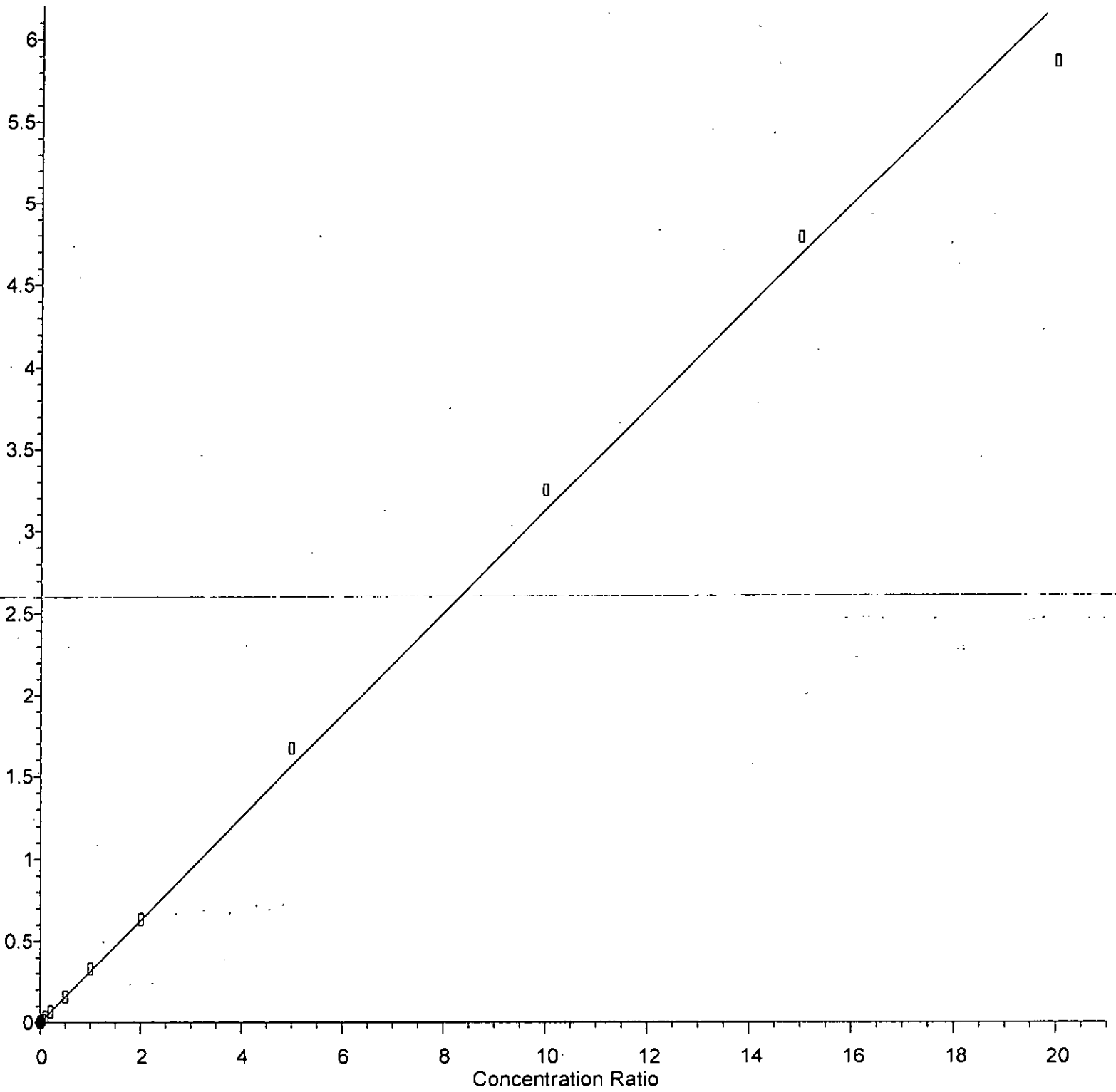
Response Ratio



$R = -1.947e-003 A^2 + 4.365e-001 A + 2.769e-004$   
Coef of Det ( $r^2$ ) = 0.999555 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

1,2-Dibromoethane (EDB)

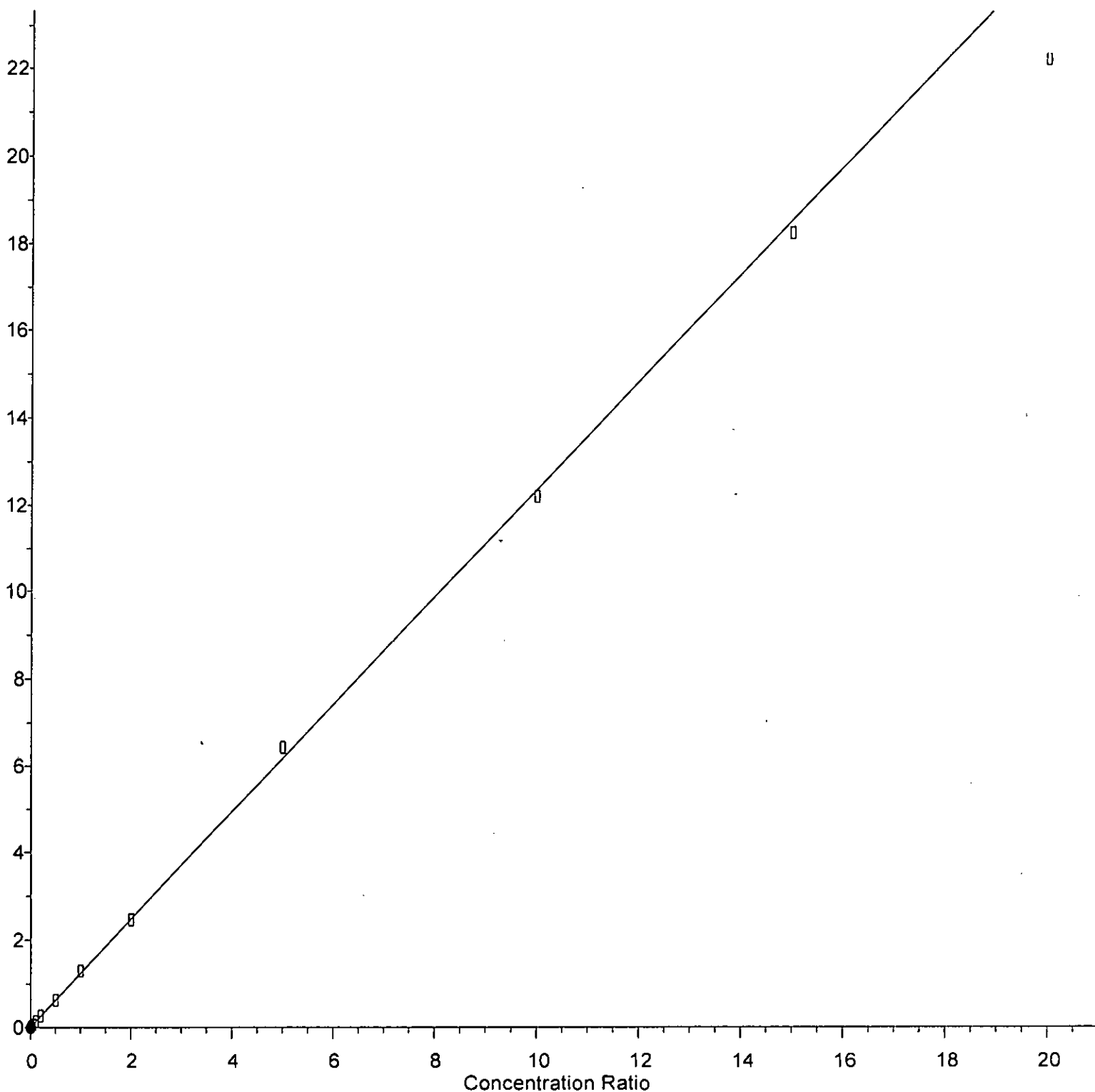
Response Ratio



Response = 3.131e-001 \* Amt + 4.197e-004  
Coef of Det (r^2) = 0.997817 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Ethylbenzene

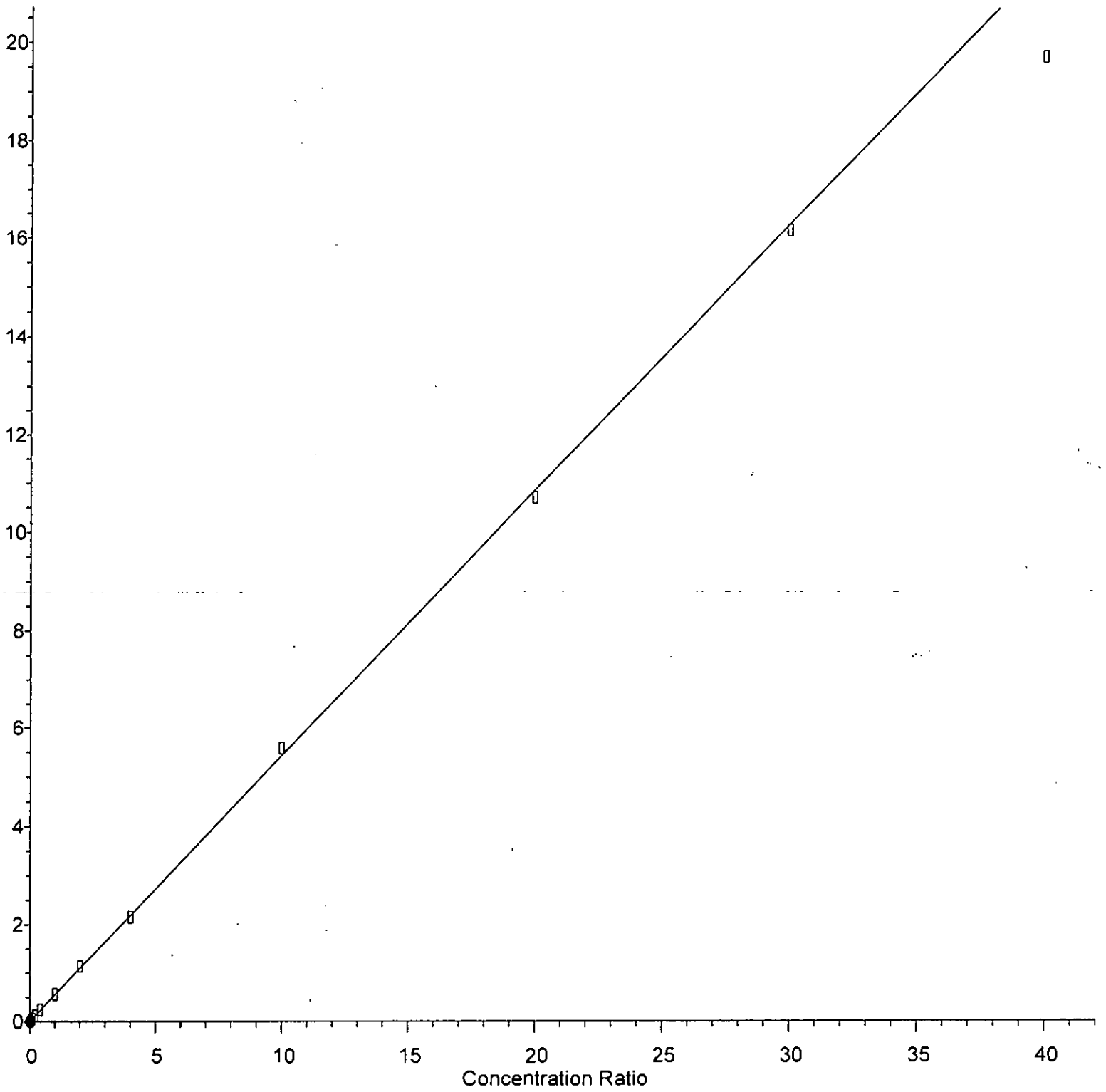
Response Ratio



Response = 1.235e+000 \* Amt + 6.127e-003  
Coef of Det (r^2) = 0.995940 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

m,p-Xylene

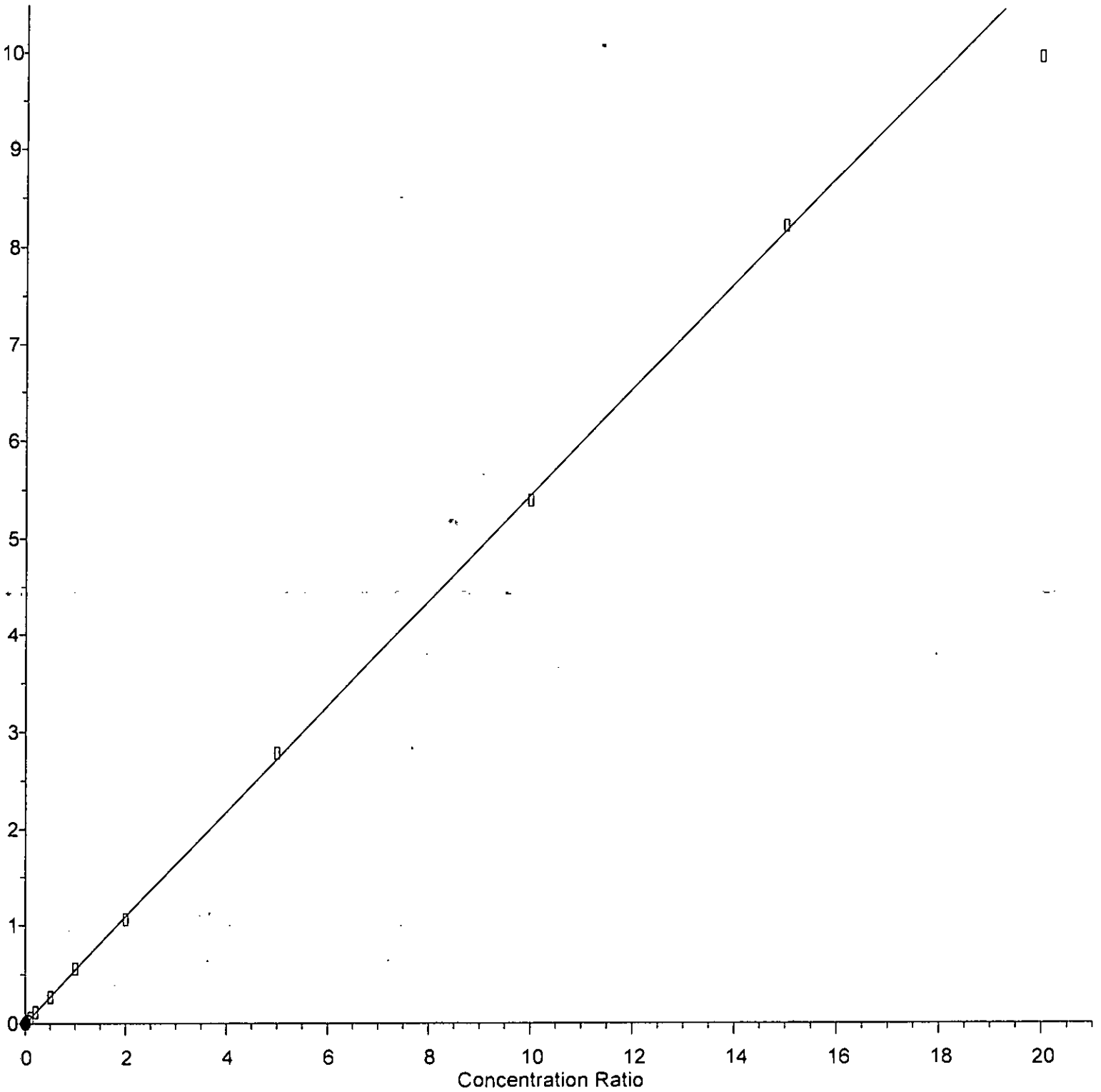
Response Ratio



Response = 5.426e-001 \* Amt + 6.608e-003  
Coef of Det (r^2) = 0.995667 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

o-Xylene

Response Ratio

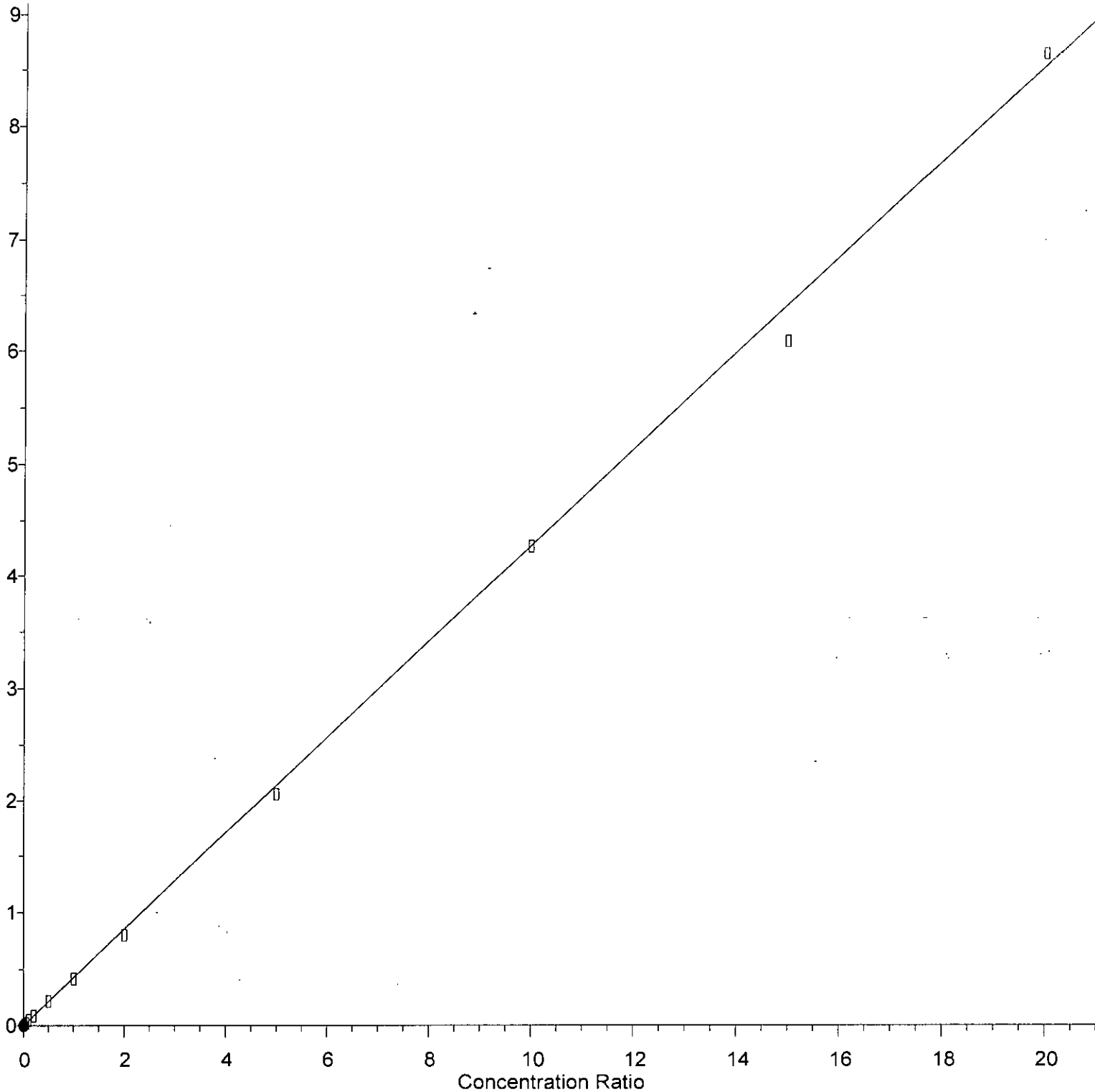


Response = 5.448e-001 \* Amt + 1.255e-003  
Coef of Det (r^2) = 0.997552 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022



1,1,2,2-Tetrachloroethane

Response Ratio

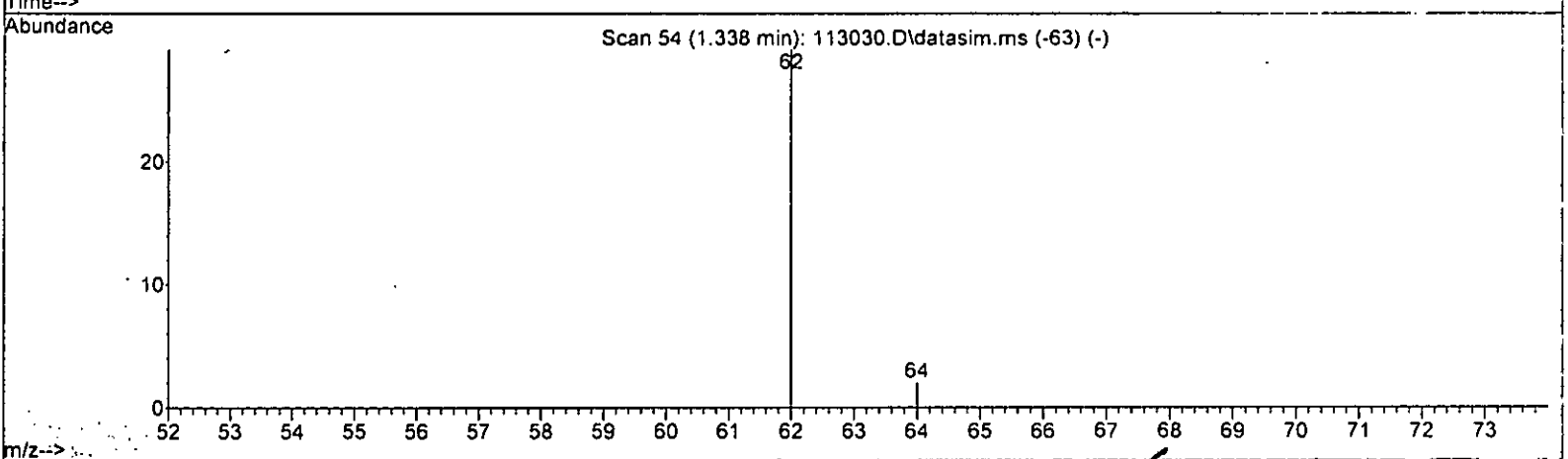
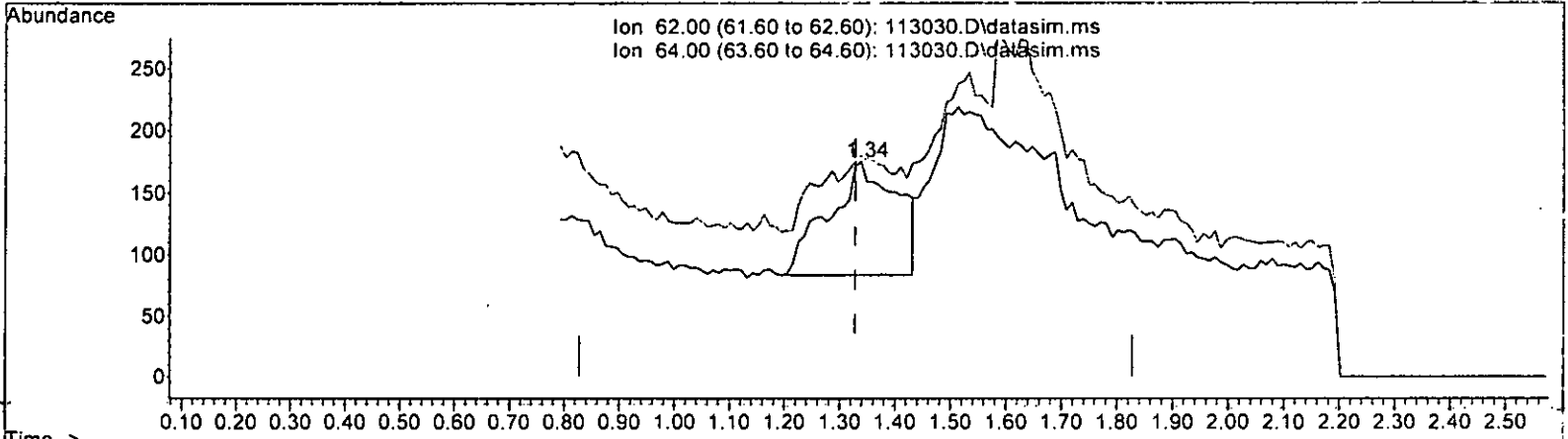


Response = 4.275e-001 \* Amt + 6.174e-004  
Coef of Det (r^2) = 0.996686 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst13\VB113022ms13.M  
Calibration Table Last Updated: Thu Dec 01 12:14:23 2022

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 0.153 ppb

response 778

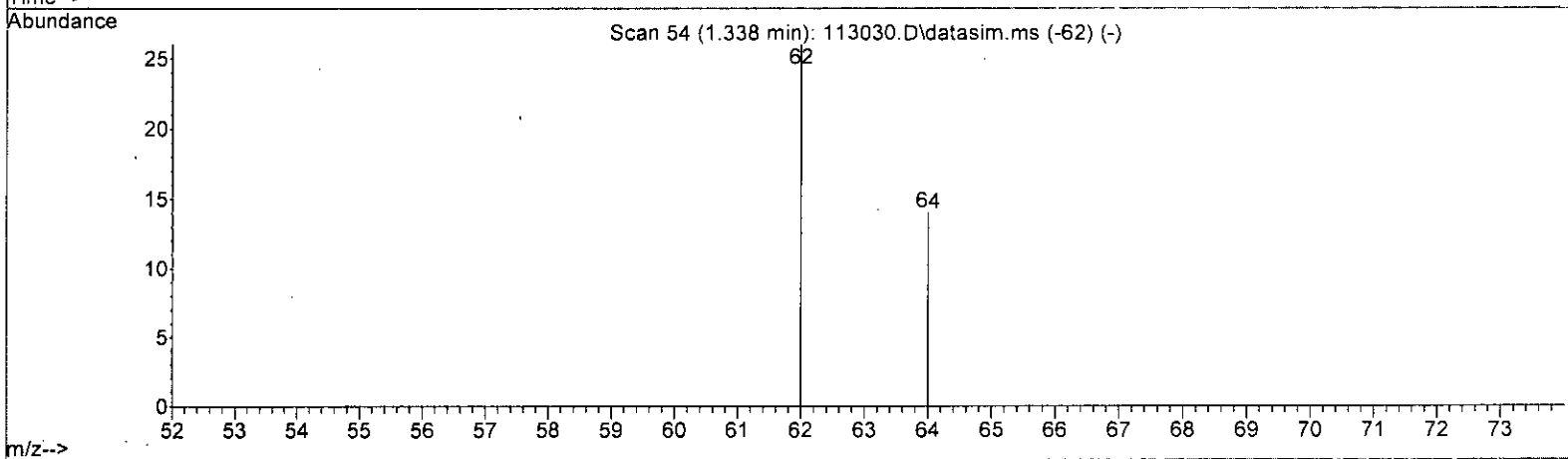
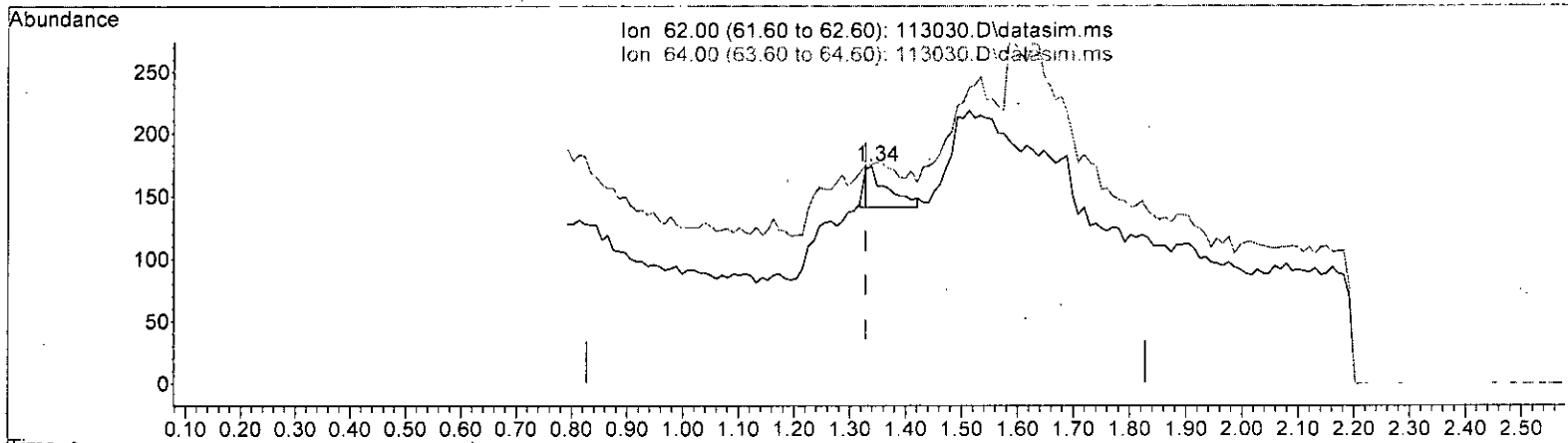
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	62.64#
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(6) Vinyl chloride (TMP) M 12.1

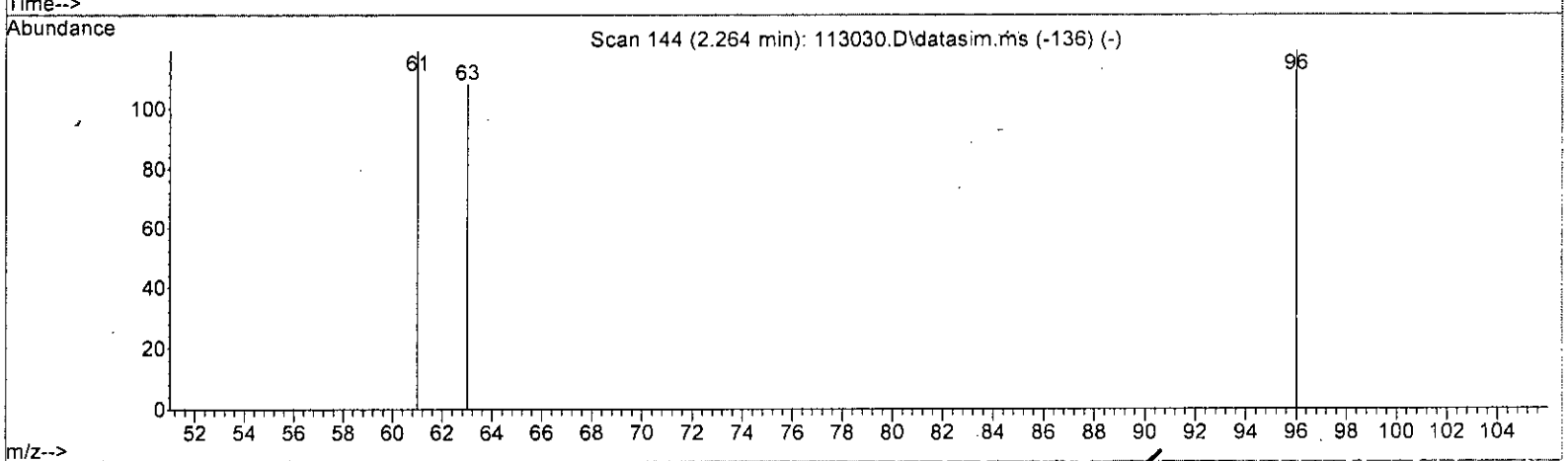
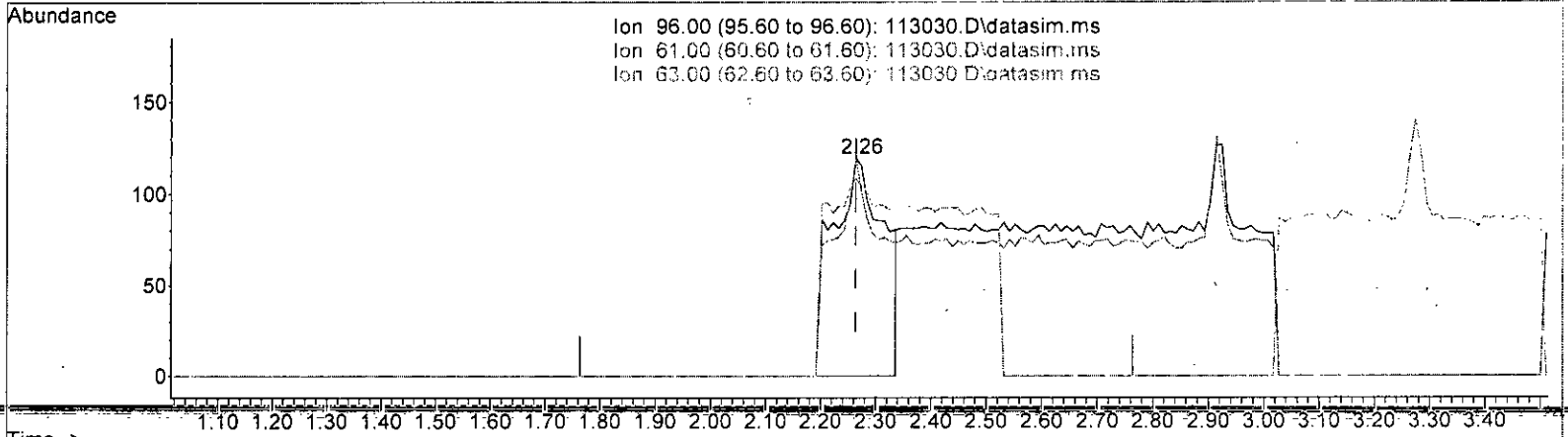
1.338min (+ 0.010) 0.019 ppb m

response	95	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	100.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms *m 12.1*

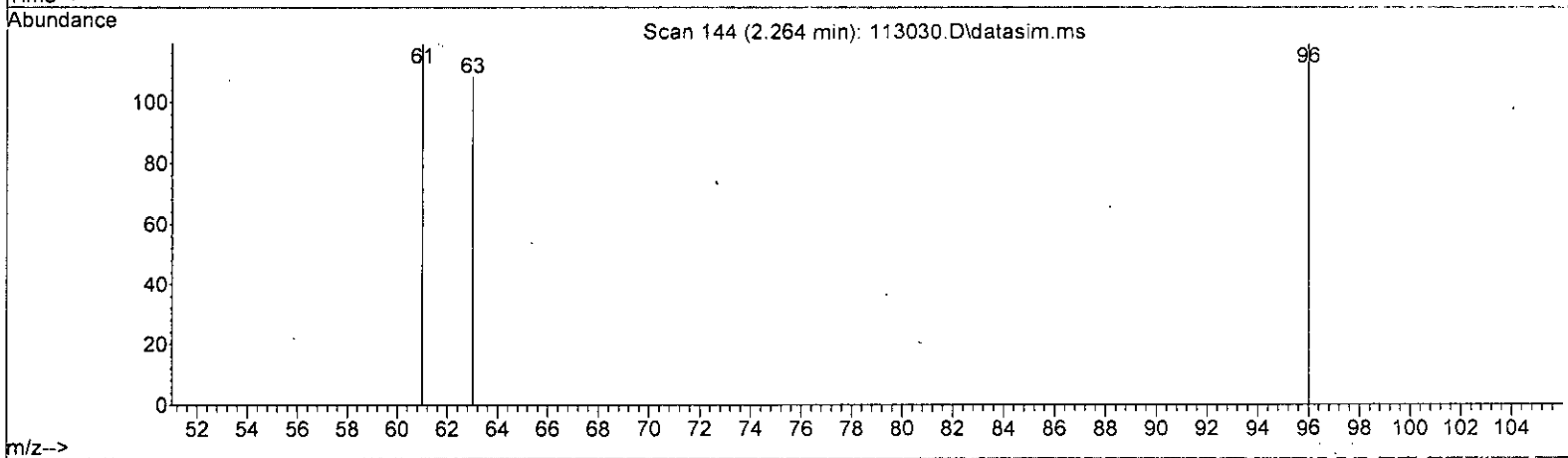
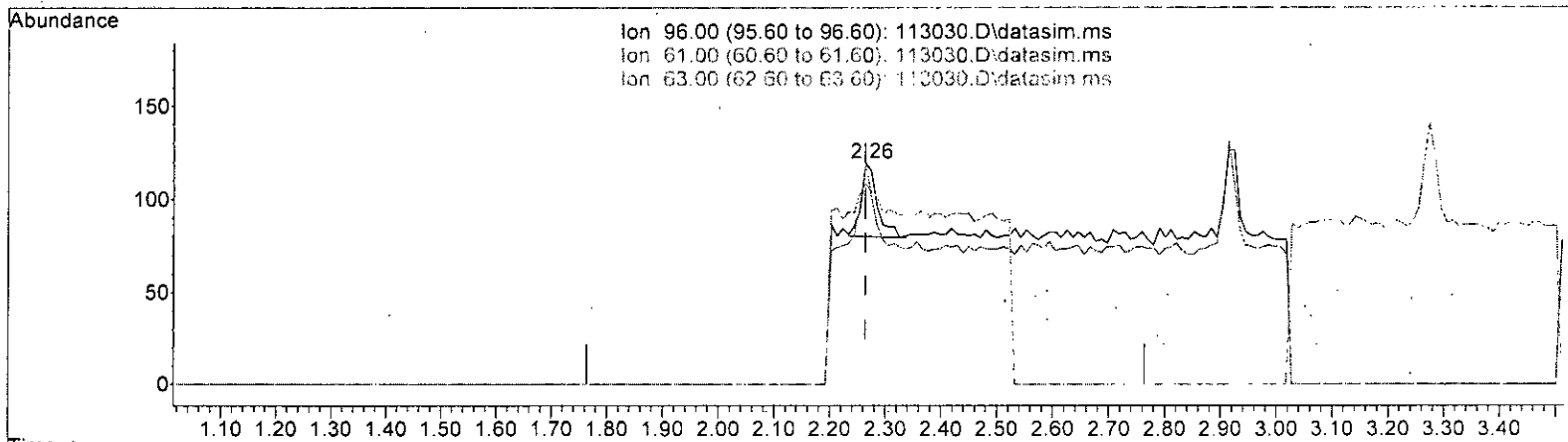
(12) 1,1-Dichloroethene (TMP)  
 2.264min (-0.000) 0.229 ppb  
 response 775

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	100.00
63.00	41.10	90.76#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

*m 12.1*

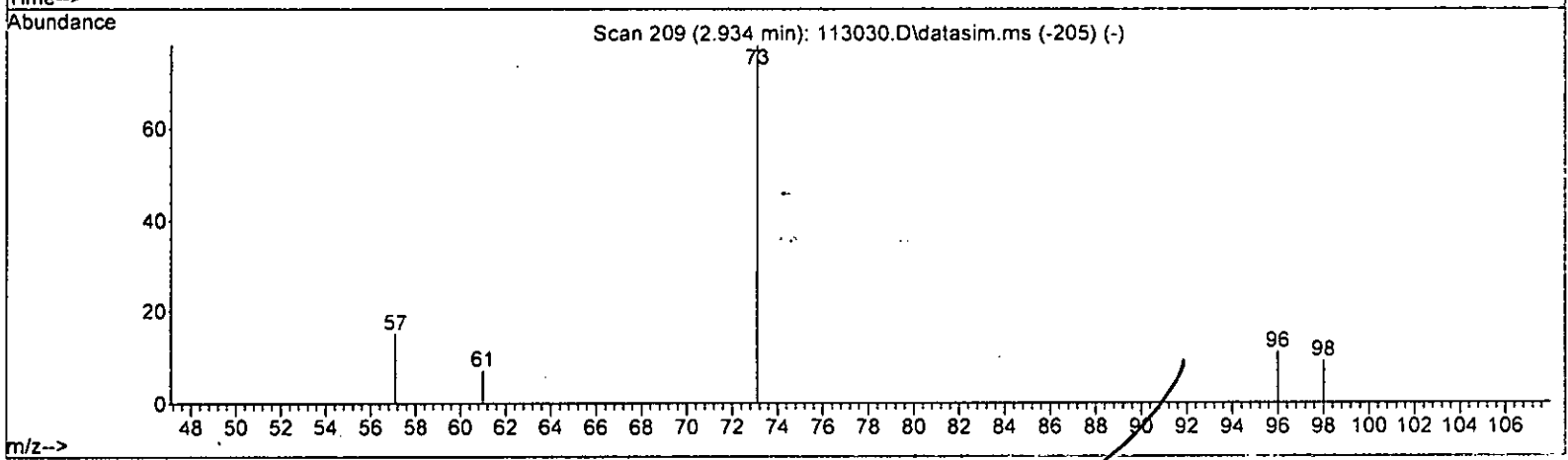
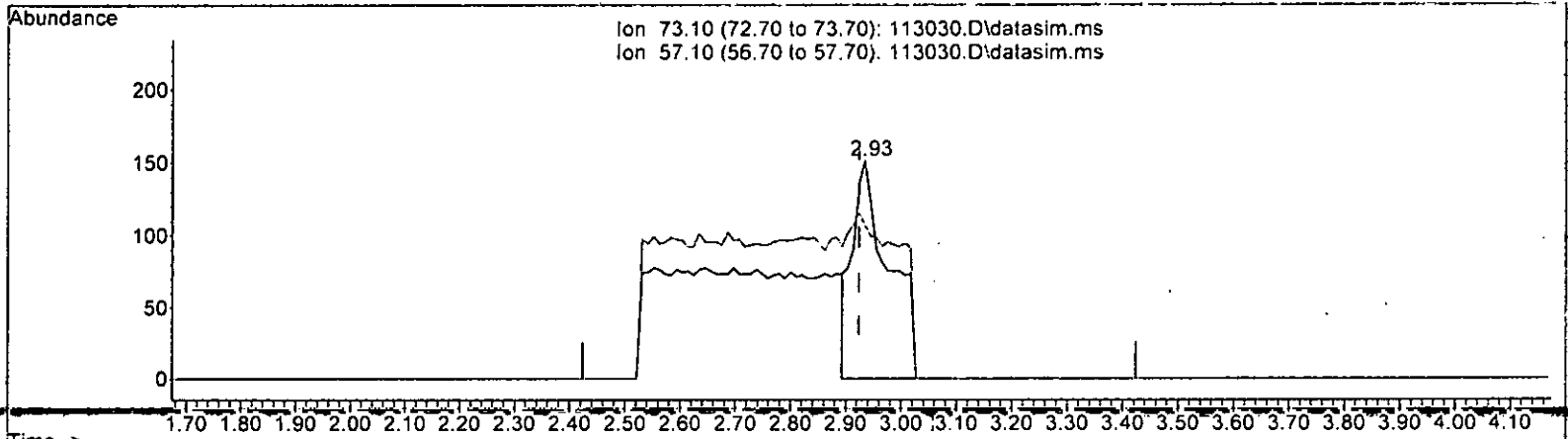
(12) 1,1-Dichloroethene (TMP)  
 2.264min (-0.000) 0.024 ppb m

response	80
Ion	Exp% Act%
96.00	100.00 100.00
61.00	127.10 100.00
63.00	41.10 90.76#
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms *m 12.1*

(16) Methyl t-butyl ether (MTBE) (TMP)

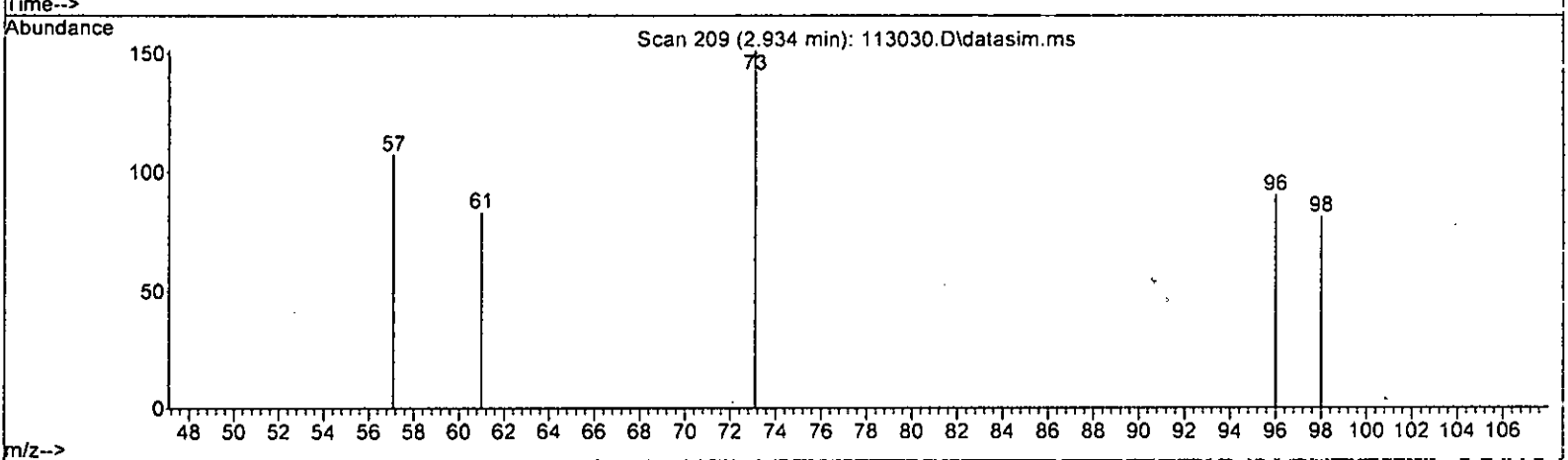
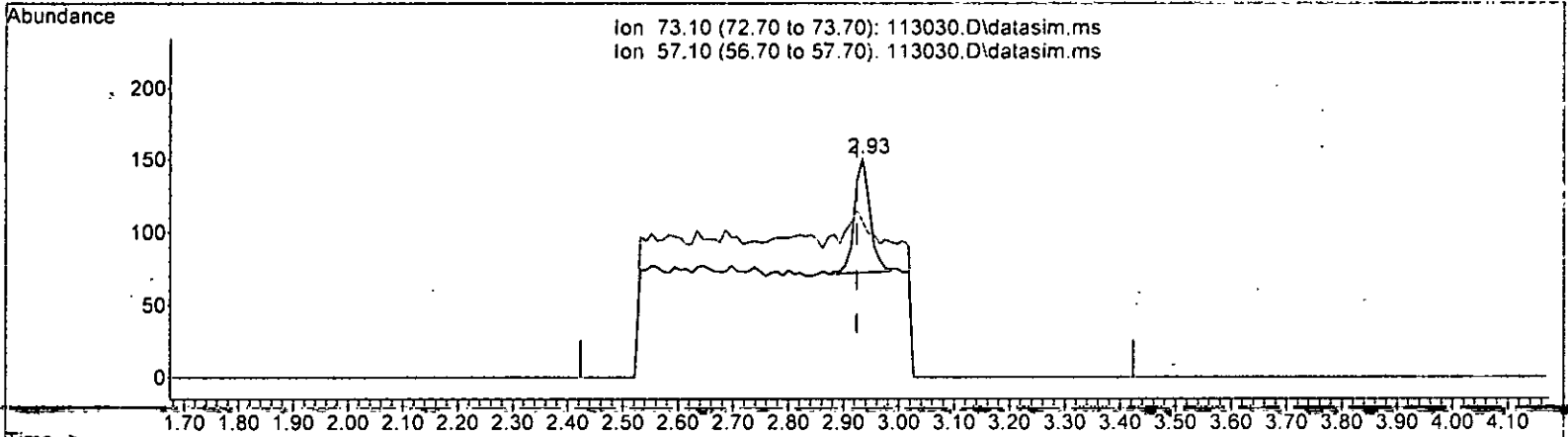
2.934min (+ 0.010) 0.085 ppb

response	691	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	70.86#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

*M 12.1*

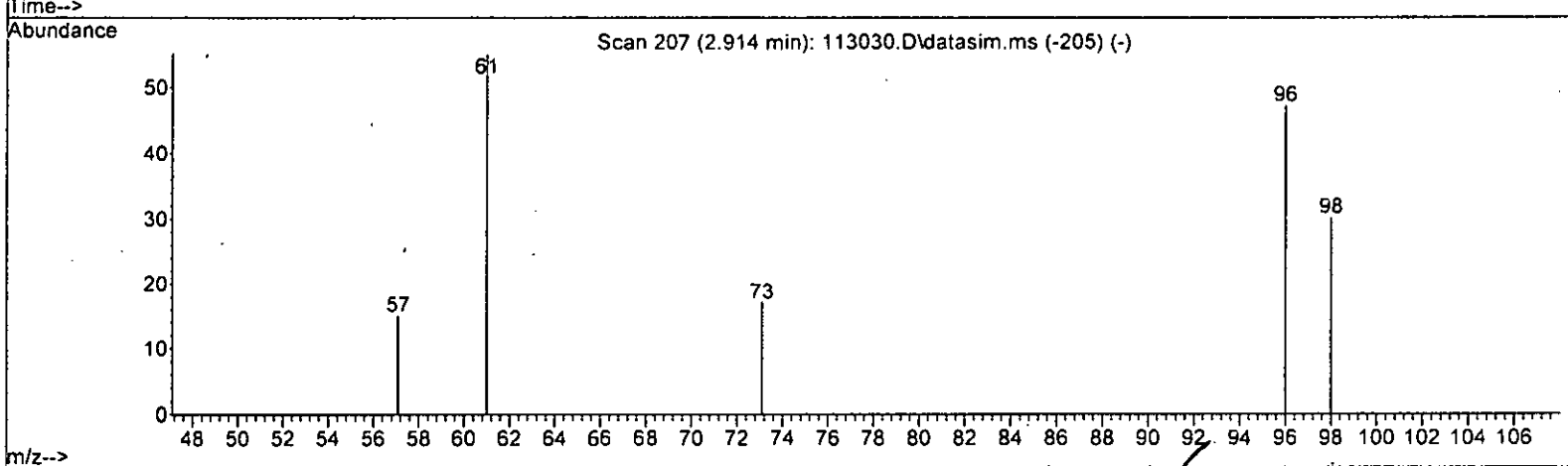
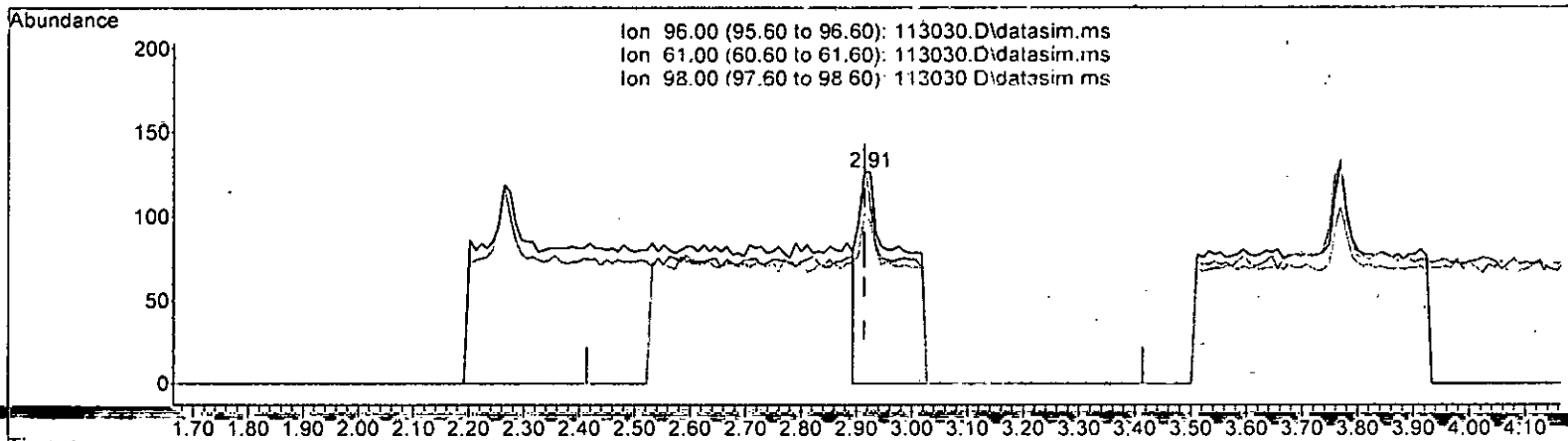
(16) Methyl t-butyl ether (MTBE) (TMP)  
 2.934min (+ 0.010) 0.019 ppb m

response	154	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	70.86#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.914min (-0.000) 0.178 ppb

response 666

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	103.97
98.00	62.70	80.95
0.00	0.00	0.00

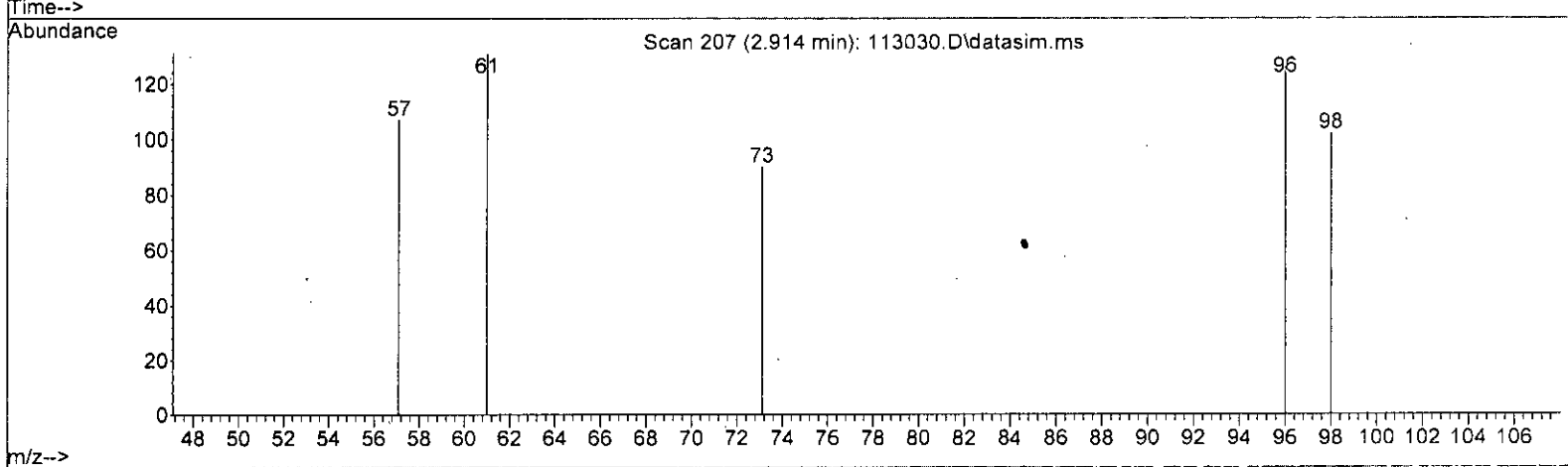
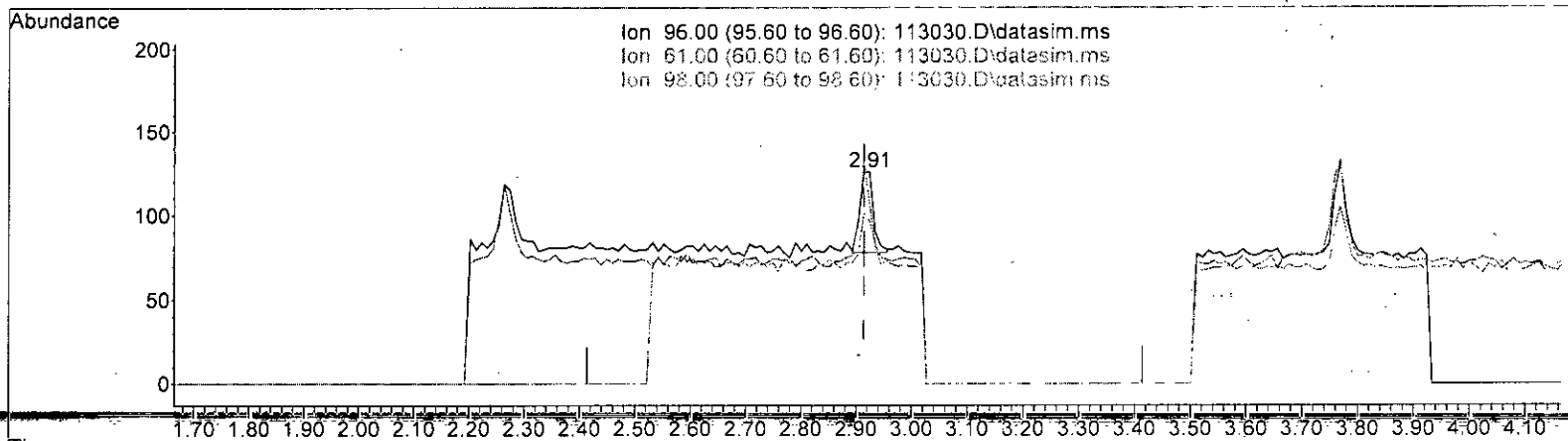
m 12.1



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) m 12.1

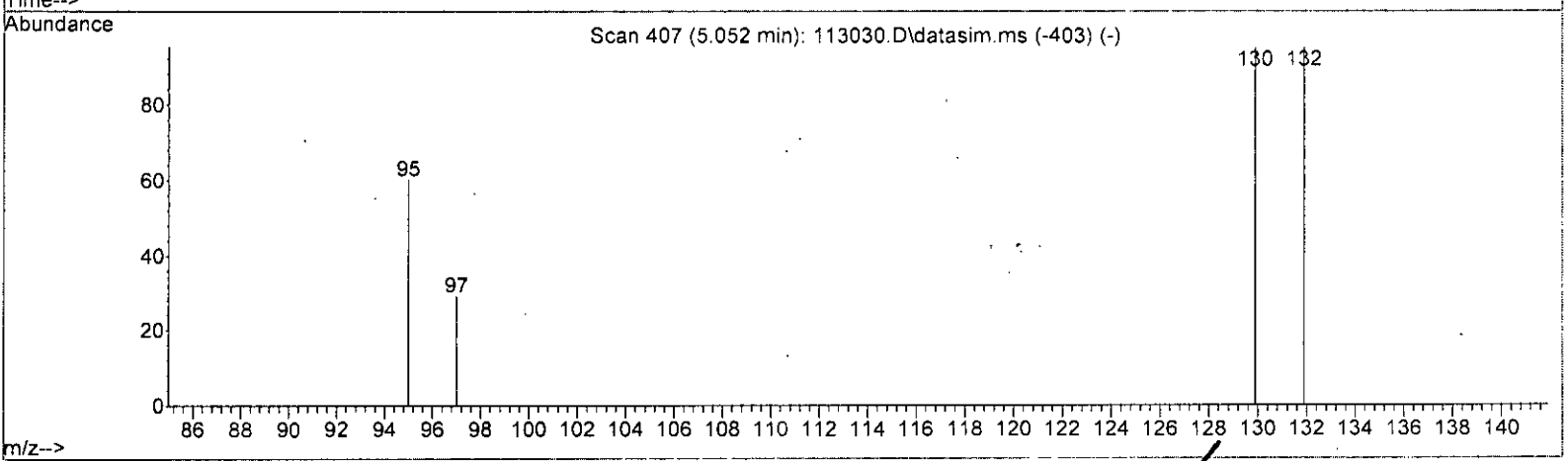
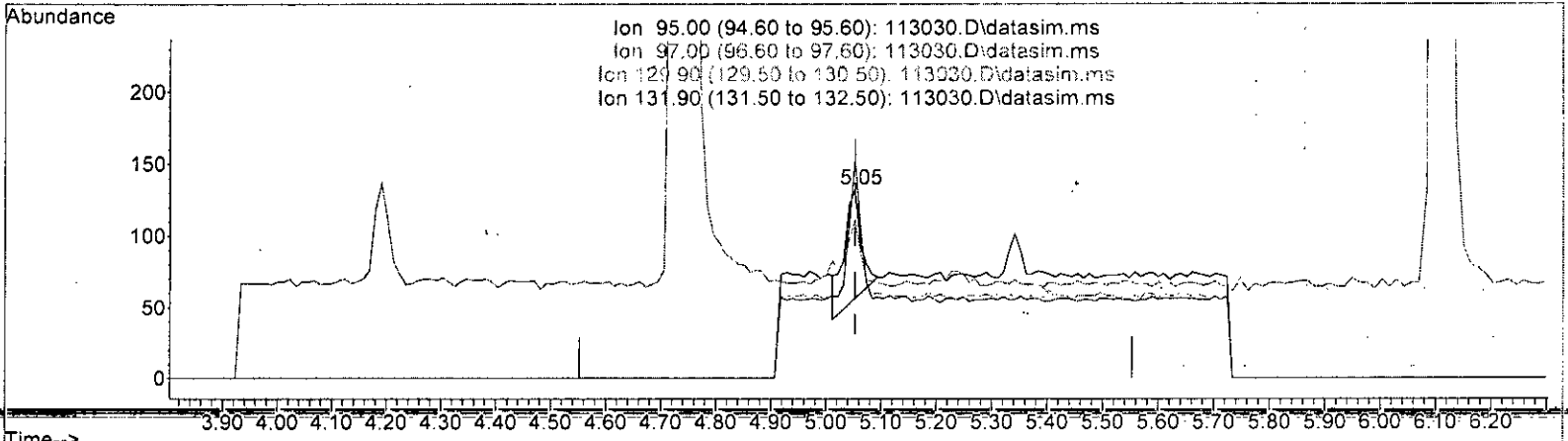
2.914min (-0.000) 0.022 ppb m

response	82
Ion	Exp% Act%
96.00	100.00 100.00
61.00	107.00 103.97
98.00	62.70 80.95
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(32) Trichloroethene (TME)

5.052min (-0.001) 0.042 ppb

response 172

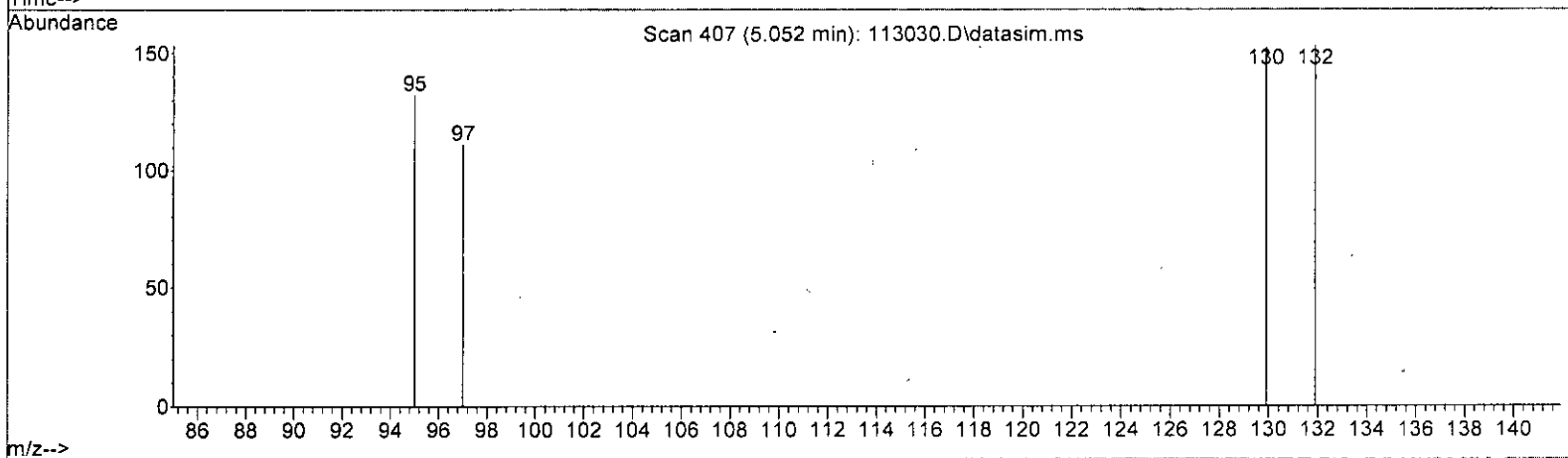
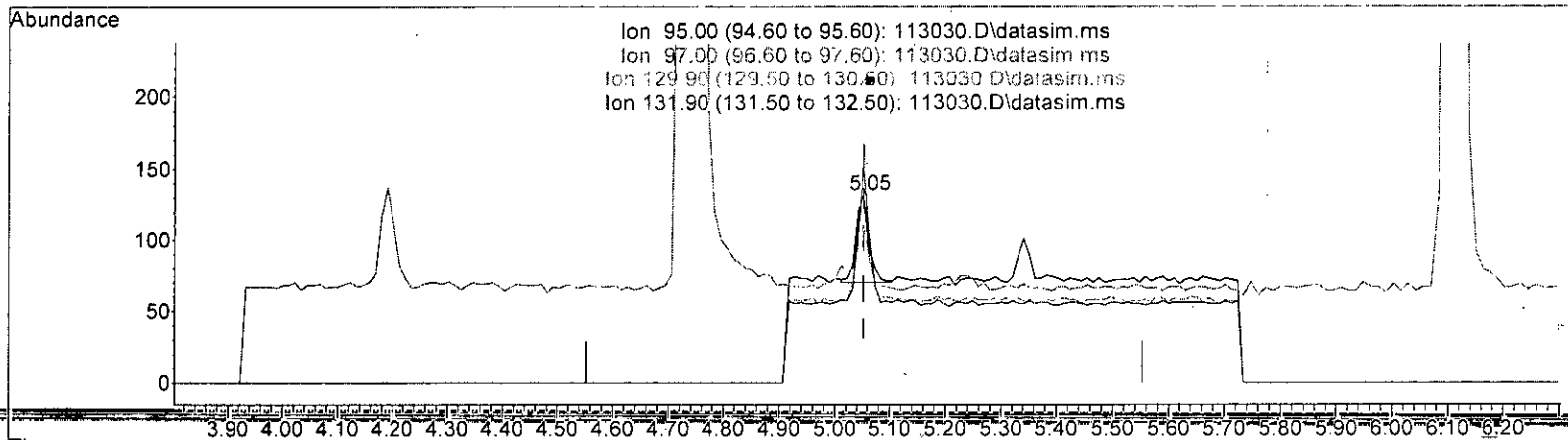
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	72.13
129.90	161.00	155.74
131.90	160.10	157.38

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(32) Trichloroethene (TMP)

5.052min (-0.001) 0.025 ppb m

response 103

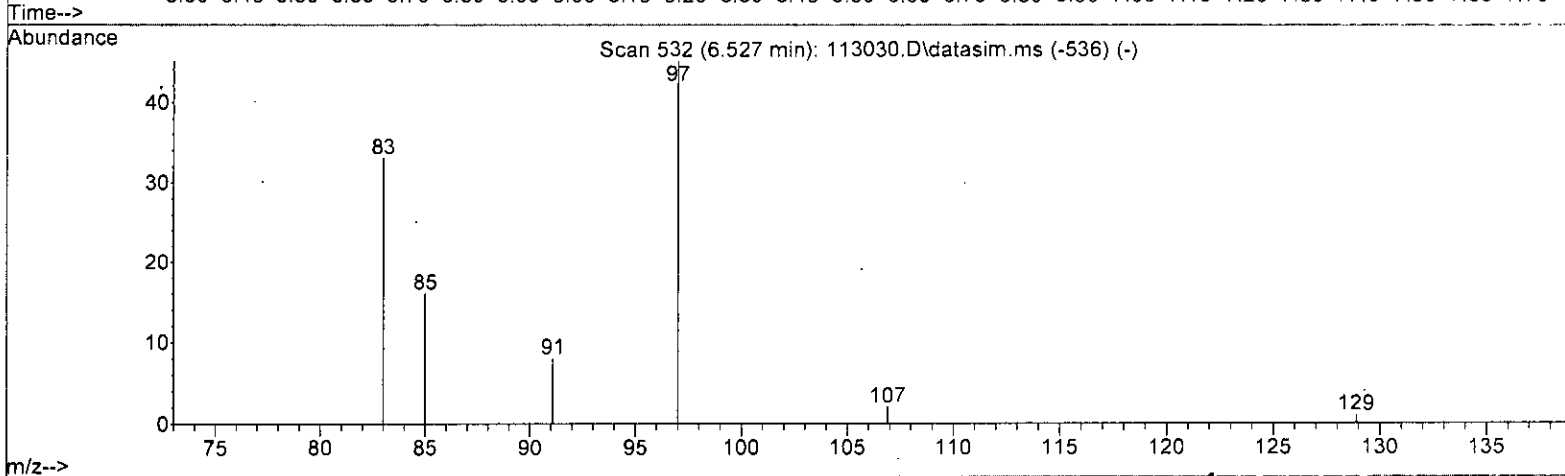
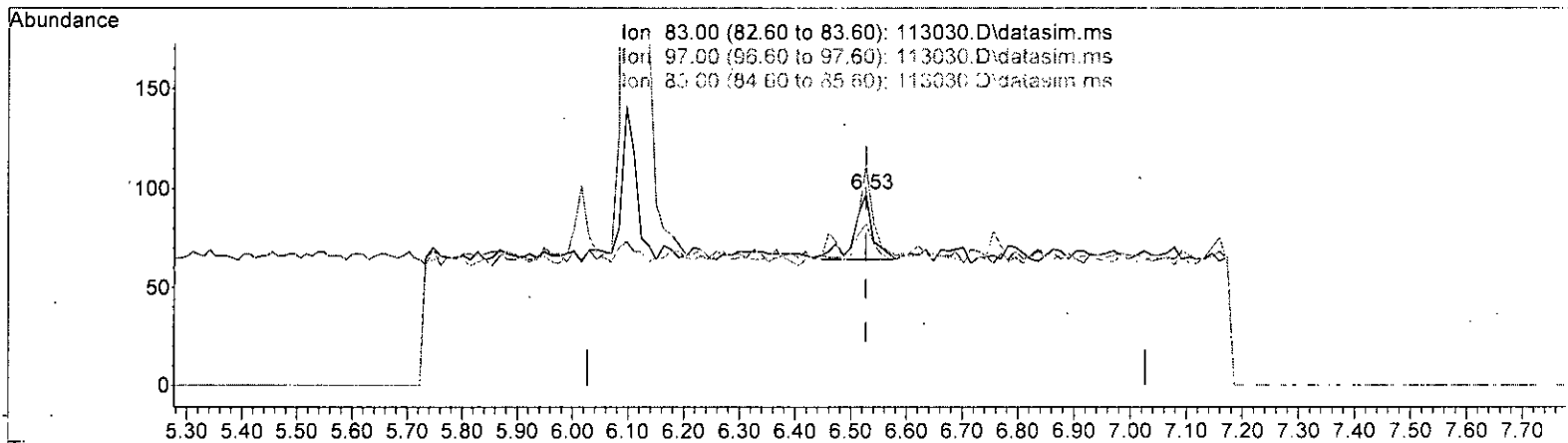
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	84.09
129.90	161.00	115.15#
131.90	160.10	115.91#

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(42) 1,1,2-Trichloroethane (TMP)

6.527min (-0.000) 0.027 ppb

response 77

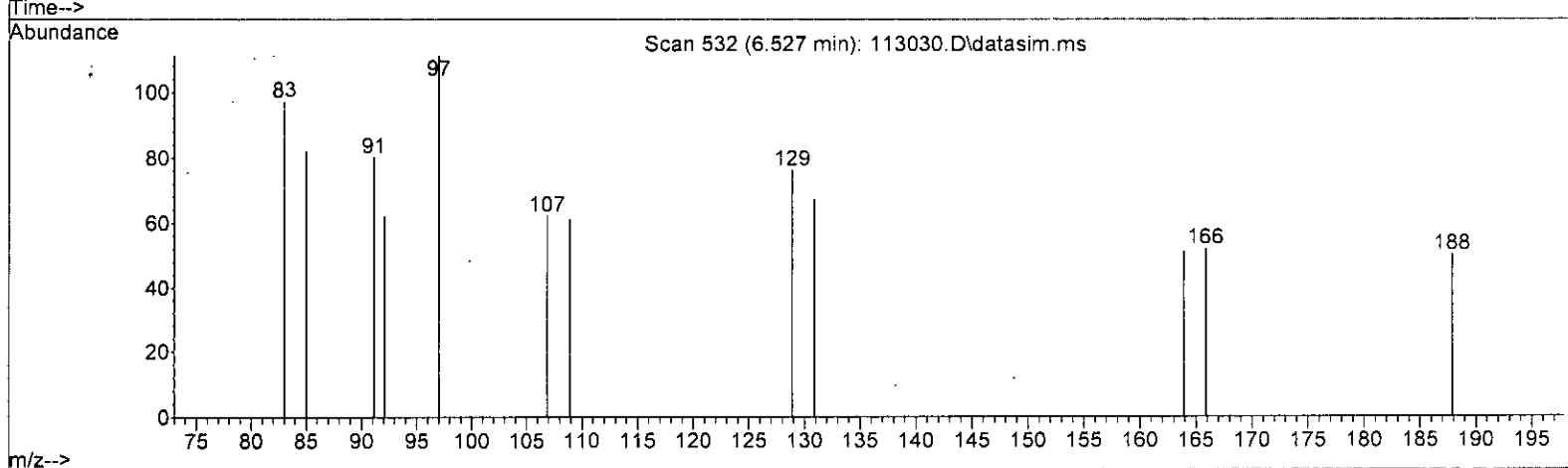
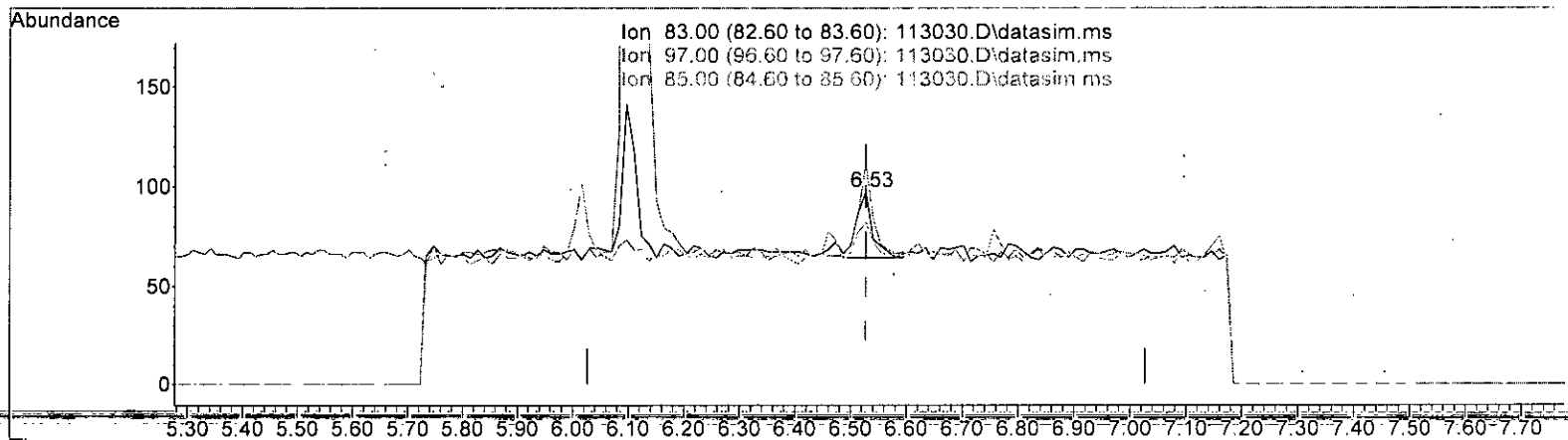
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	151.00	142.42
85.00	68.80	54.55
0.00	0.00	0.00

M12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

*m 12.1*

(42) 1,1,2-Trichloroethane (TMP)

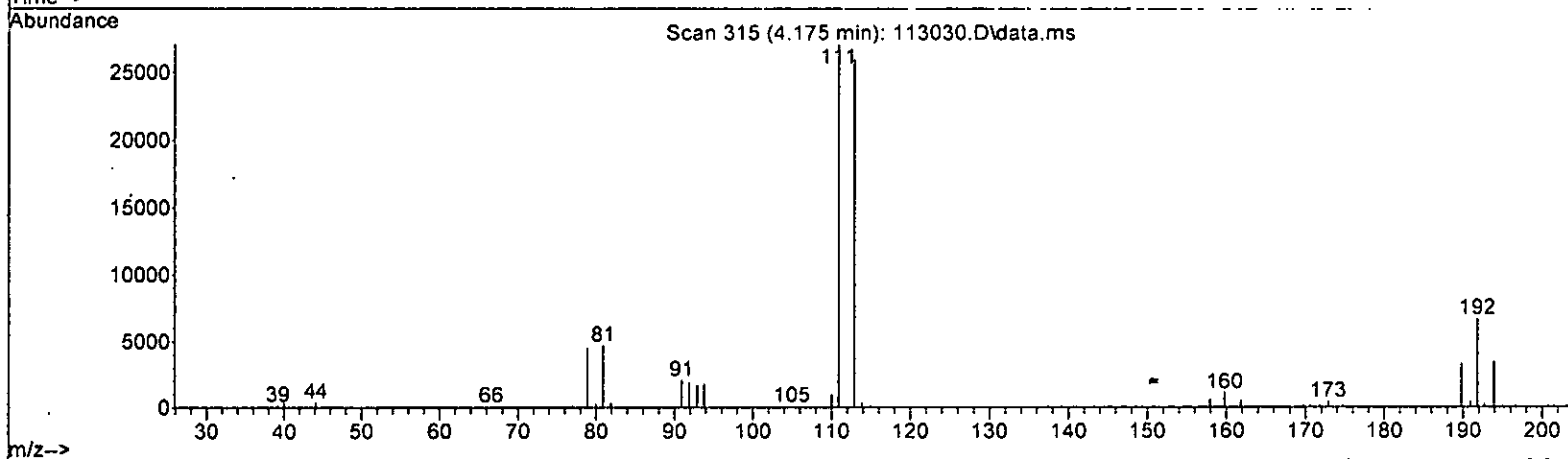
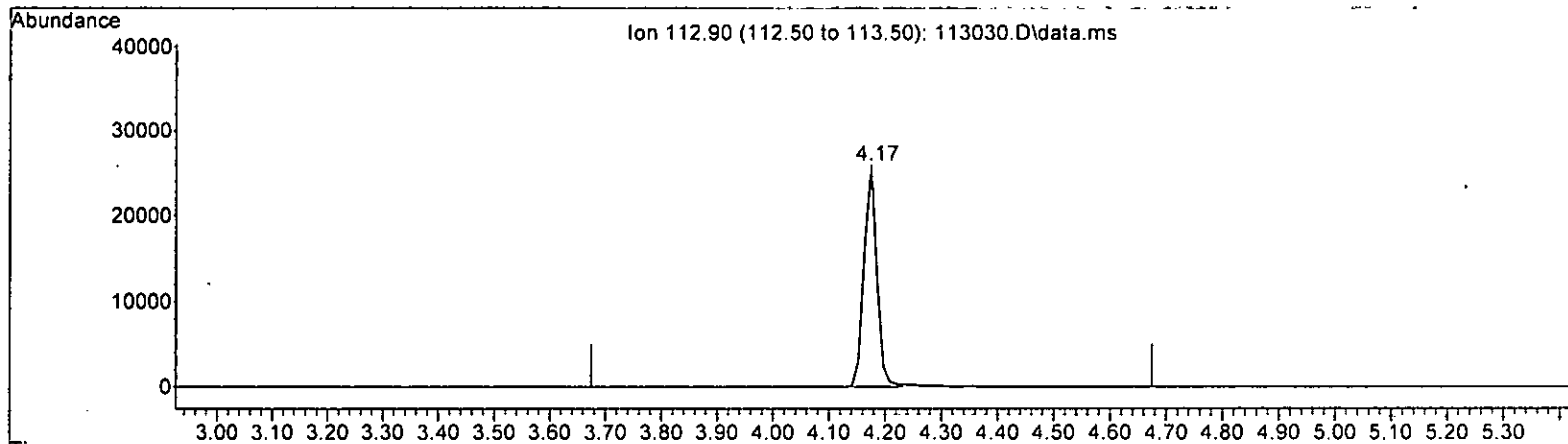
6.527min (-0.000) 0.022 ppb m

response	66	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	151.00	114.43#
85.00	68.80	84.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113030.D\data.ms

(3) Dibromofluoromethane (S)

4.175min (-0.000) 9.509 ppb m

response 41276

Ion	Exp%	Act%
112.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*accidental  
deletion  
m  
12.1*

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	136255	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	113476	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	70996	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	0.00	113	0d	0.000	ppb	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	0.00%#	
30) 1,2-Dichloroethane-d4	4.45	102	8431	10.363	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	103.60%	
35) Toluene-d8	6.11	98	117213	9.570	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	95.70%	
57) 4-Bromofluorobenzene	8.51	95	43877	10.199	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	102.00%	

*Handwritten:* ← 9.509 ppm  
 95.09% m 12.1

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.	d	
4) Dichlorodifluoromethane	0.00		0	N.D.	d	
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.34	62	95m	0.019	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.	d	
9) Trichlorofluoromethane	0.00		0	N.D.	d	
10) 2-Propanol	0.00		0	N.D.	d	
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.26	96	80m	0.024	ppb	
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
16] Methyl t-butyl ether (...)	2.93	73	154m	0.019	ppb	
17] trans-1,2-Dichloroethene	2.91	96	82m	0.022	ppb	
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d	
19) 1,1-Dichloroethane	0.00		0	N.D.	d	
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d	
21) 2,2-Dichloropropane	0.00		0	N.D.	d	
22] cis-1,2-Dichloroethene	3.77	96	87	0.022	ppb	96
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26] 1,2-Dichloroethane (EDC)	4.52	62	162	0.020	ppb	97
27] 1,1,1-Trichloroethane	4.19	97	133	0.021	ppb	88
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.	d	
31] Benzene	4.50	78	289	0.013	ppb	99
32] Trichloroethene	5.05	95	103m	0.025	ppb	
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.	d	

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

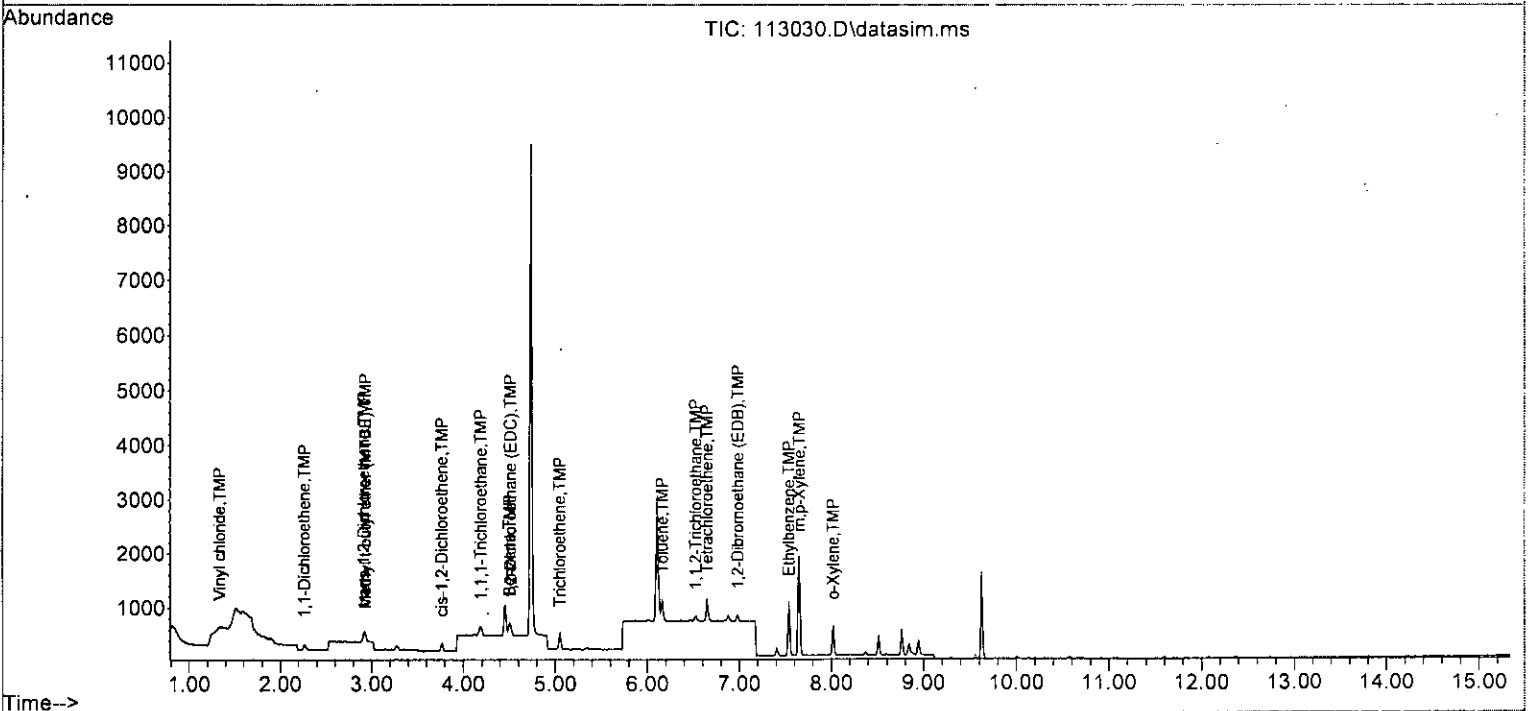
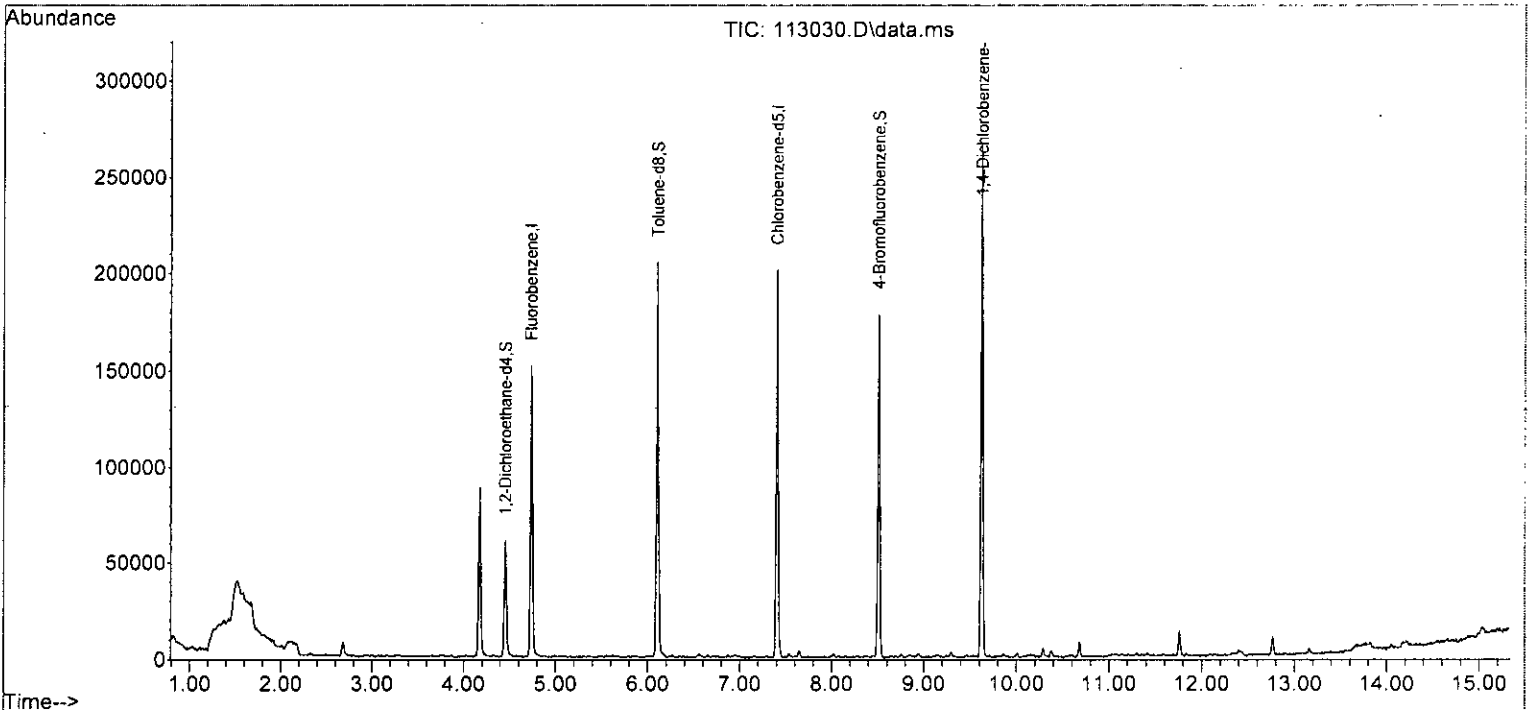
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D. d	
40] Toluene	6.16	92	211	0.020	ppb	96
41) trans-1,3-Dichloropropene	0.00		0		N.D. d	
42] 1,1,2-Trichloroethane	6.53	83	66m	0.022	ppb	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D. d	
45] Tetrachloroethene	6.65	164	143	0.023	ppb	96
46) Dibromochloromethane	0.00		0		N.D. d	
47] 1,2-Dibromoethane (EDB)	6.98	107	110	0.018	ppb	97
48) Chlorobenzene	0.00		0		N.D. d	
49] Ethylbenzene	7.54	91	983	0.021	ppb	100
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D. d	
51] m,p-Xylene	7.65	106	1003	0.041	ppb	98
52] o-Xylene	8.02	106	268	0.020	ppb	97
53) Styrene	0.00		0		N.D. d	
54) Isopropylbenzene	0.00		0		N.D. d	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D. d	
59) Bromobenzene	0.00		0		N.D. d	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D. d	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	0.00		0		N.D. d	
64) 4-Chlorotoluene	0.00		0		N.D. d	
65) tert-Butylbenzene	0.00		0		N.D. d	
66) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
67) sec-Butylbenzene	0.00		0		N.D. d	
68) p-Isopropyltoluene	0.00		0		N.D. d	
69) 1,3-Dichlorobenzene	0.00		0		N.D. d	
70) 1,4-Dichlorobenzene	0.00		0		N.D. d	
71) 1,2-Dichlorobenzene	0.00		0		N.D. d	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D. d	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D. d	
74) Hexachlorobutadiene	0.00		0		N.D. d	
75) Naphthalene	0.00		0		N.D. d	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-2.33#
3 S Dibromofluoromethane	10.000	0.000	100.0#	0	-4.17#
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP Vinyl chloride	0.020	0.019	5.0	104	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.83#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.33#
11 TMP Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP 1,1-Dichloroethene	0.020	0.024	-20.0	104	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.16#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.020	0.019	5.0	94	0.01
17 TMP trans-1,2-Dichloroethene	0.020	0.022	-10.0	104	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP 1,1-Dichloroethane	0.020	0.000	100.0#	0	-3.27#
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP cis-1,2-Dichloroethene	0.020	0.022	-10.0	100	0.00
23 TMP Chloroform	-1.000	0.000	0.0	0	-4.04#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.61#
26 TMP 1,2-Dichloroethane (EDC)	0.020	0.020	0.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.020	0.021	-5.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.33#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.33#
30 S 1,2-Dichloroethane-d4	10.000	10.363	-3.6	100	0.00
31 TMP Benzene	0.020	0.013	35.0#	100	0.00
32 TMP Trichloroethene	0.020	0.025	-25.0#	134	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.24#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.48#
35 S Toluene-d8	10.000	9.570	4.3	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.88#
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.020	0.020	0.0	100	0.00
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP 1,1,2-Trichloroethane	0.020	0.022	-10.0	106	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45 TMP Tetrachloroethene	0.020	0.023	-15.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.020	0.018	10.0	100	0.01
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49 TMP Ethylbenzene	0.020	0.021	-5.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.51#
51 TMP m,p-Xylene	0.040	0.041	-2.5	100	0.00
52 TMP o-Xylene	0.020	0.020	0.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.37#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.20#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	10.000	10.199	-2.0	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.77#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.94#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.66#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.70#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.95#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.30#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.46#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.56#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.01#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.83#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.08#

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-2.33#
3 S Dibromofluoromethane	0.319	0.000	100.0#	0#	-4.17#
4 TMP Dichlorodifluoromethane	0.582	0.000#	100.0#	0#	-1.11#
5 TMP Chloromethane	0.386	0.000#	100.0#	0#	-1.25#
6 TMP Vinyl chloride	0.373	0.349	6.4	104	0.00
7 TMP Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.200	0.000#	100.0#	0#	-1.64#
9 TMP Trichlorofluoromethane	1.015	0.000#	100.0#	0#	-1.83#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.33#
11 TMP Acetone	0.022	0.000#	100.0#	0#	-2.32#
12 TMP 1,1-Dichloroethene	0.248	0.294	-18.5	104	0.00
13 TMP Hexane	0.244	0.000#	100.0#	0#	-3.16#
14 TMP Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.022	0.000#	100.0#	0#	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.565	5.2	94	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.301	-9.9	104	0.00
18 TMP Diisopropyl ether (DIPE)	0.533	0.000#	100.0#	0#	-3.34#
19 TMP 1,1-Dichloroethane	0.341	0.000#	100.0#	0#	-3.27#
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.000#	100.0#	0#	-3.65#
21 TMP 2,2-Dichloropropane	0.297	0.000#	100.0#	0#	-3.76#
22 TMP cis-1,2-Dichloroethene	0.296	0.319	-7.8	100	0.00
23 TMP Chloroform	0.441	0.000#	100.0#	0#	-4.04#
24 TMP 2-Butanone (MEK)	0.102	0.000#	100.0#	0#	-3.78#
25 TMP t-Amyl methyl ether (TAME)	0.551	0.000#	100.0#	0#	-4.61#
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.594	-77.8#	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.488	-4.3	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.000#	100.0#	0#	-4.33#
29 TMP Carbon tetrachloride	0.497	0.000#	100.0#	0#	-4.33#
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.849	1.061	-25.0#	100	0.00
32 TMP Trichloroethene	0.304	0.378	-24.3#	134	0.00
33 TMP 1,2-Dichloropropane	0.189	0.000#	100.0#	0#	-5.24#
34 TMP Bromodichloromethane	0.316	0.000#	100.0#	0#	-5.48#
35 S Toluene-d8	0.899	0.860	4.3	100	0.00
36 TMP Dibromomethane	0.173	0.000#	100.0#	0#	-5.34#
37 TMP 4-Methyl-2-pentanone	0.040	0.000#	100.0#	0#	-6.01#
38 TMP cis-1,3-Dichloropropene	0.329	0.000#	100.0#	0#	-5.88#
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.930	-29.3#	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.000#	100.0#	0#	-6.36#
42 TMP 1,1,2-Trichloroethane	0.204	0.291	-42.6#	106	0.00
43 TMP 2-Hexanone	0.142	0.000#	100.0#	0#	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113030.D  
 Acq On : 30 Nov 2022 10:43 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.443	0.630	-42.2#	100	0.00
46 TMP Dibromochloromethane	0.425	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.485	-44.8#	100	0.01
48 TMP Chlorobenzene	0.943	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.560	4.331	-177.6#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.000#	100.0#	0#	-7.51#
51 TMP m,p-Xylene	0.718	2.210	-207.8#	100	0.00
52 TMP o-Xylene	0.611	1.181	-93.3#	100	0.00
53 TMP Styrene	0.848	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.353	0.000#	100.0#	0#	-8.37#
55 TMP Bromoform	0.302	0.000#	100.0#	0#	-8.20#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.618	-2.0	100	0.00
58 TMP n-Propylbenzene	2.257	0.000#	100.0#	0#	-8.77#
59 TMP Bromobenzene	0.821	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	1.836	0.000#	100.0#	0#	-8.94#
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.000#	100.0#	0#	-8.66#
62 TMP 1,2,3-Trichloropropane	0.337	0.000#	100.0#	0#	-8.70#
63 TMP 2-Chlorotoluene	1.282	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	1.552	0.000#	100.0#	0#	-8.95#
65 TMP tert-Butylbenzene	1.946	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	1.975	0.000#	100.0#	0#	-9.30#
67 TMP sec-Butylbenzene	2.396	0.000#	100.0#	0#	-9.46#
68 TMP p-Isopropyltoluene	2.400	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.476	0.000#	100.0#	0#	-9.56#
70 TMP 1,4-Dichlorobenzene	1.456	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.422	0.000#	100.0#	0#	-10.01#
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.997	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.588	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	1.938	0.000#	100.0#	0#	-11.83#
76 TMP 1,2,3-Trichlorobenzene	0.789	0.000#	100.0#	0#	-12.08#

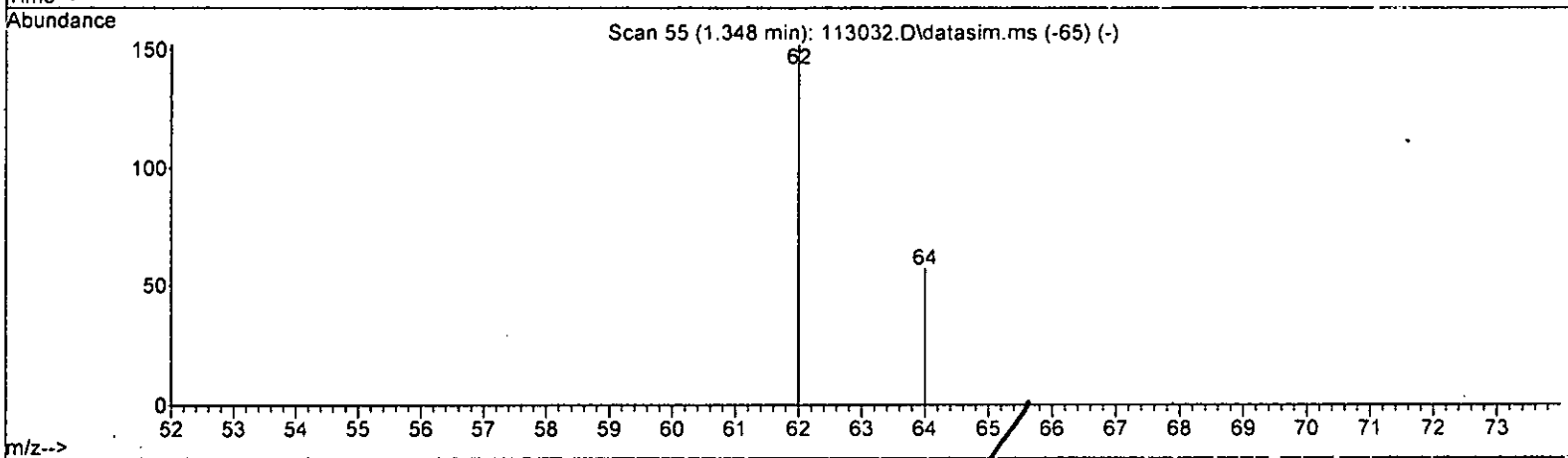
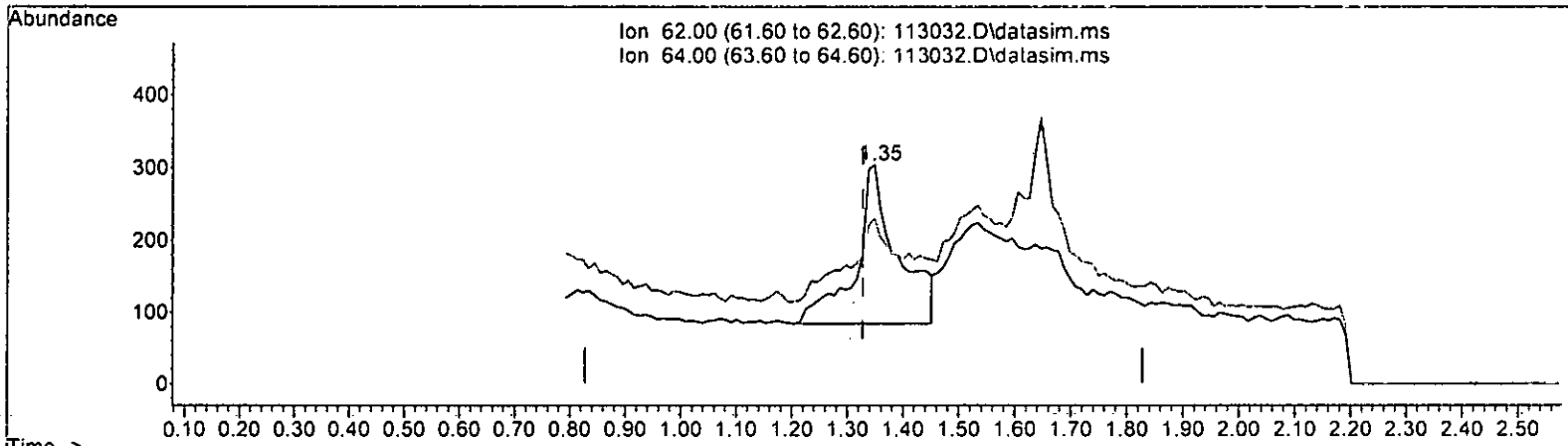
(#) = Out of Range

SPCC's out = 52 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

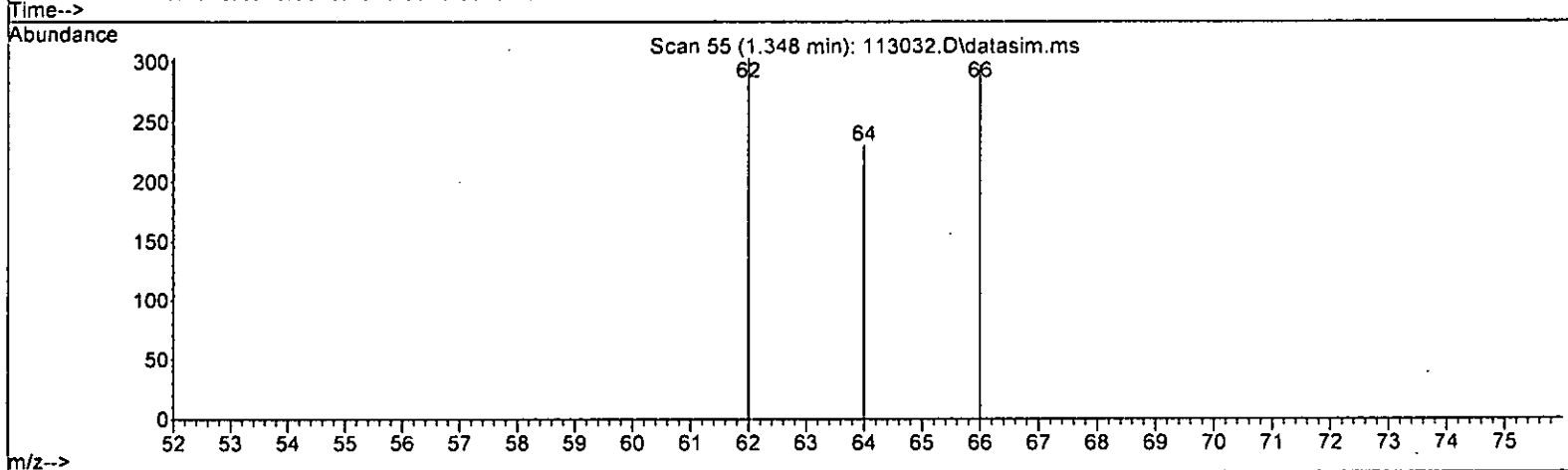
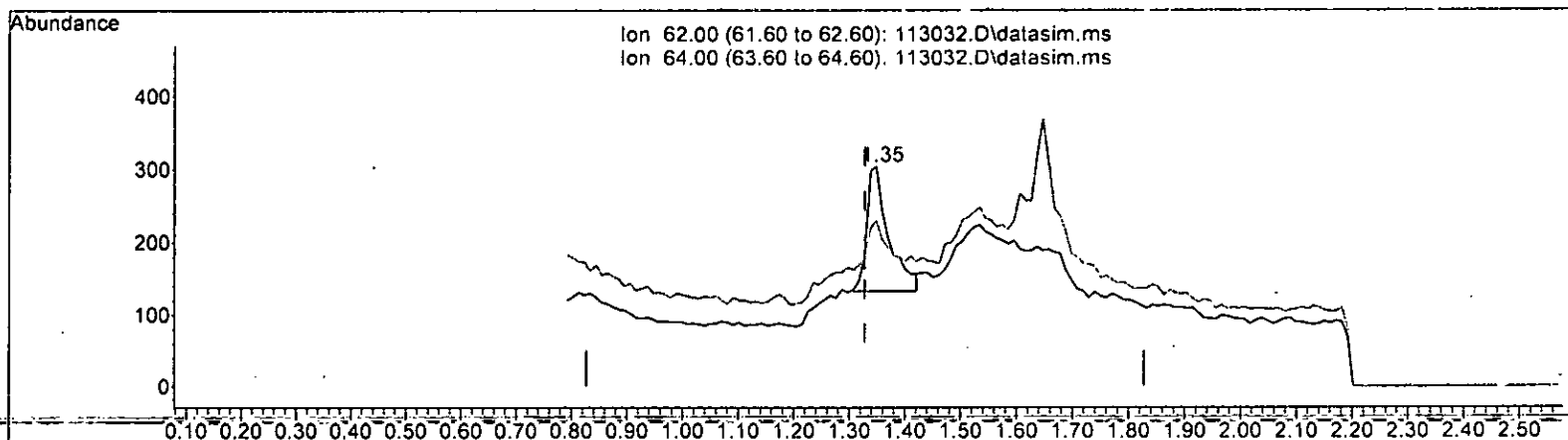
m 12.1

(6) Vinyl chloride (TMP)		
Retention Time	Concentration	Response
1.348min (+ 0.020)	0.222 ppb	1138
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	52.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(6) Vinyl chloride (TMP) *M (2.1)*

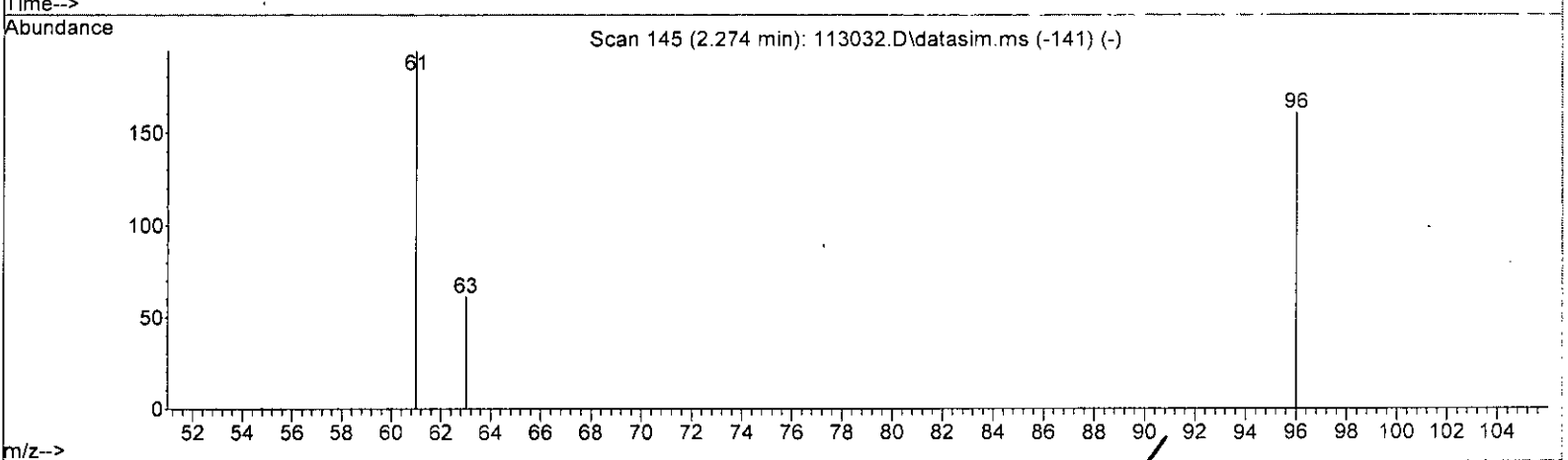
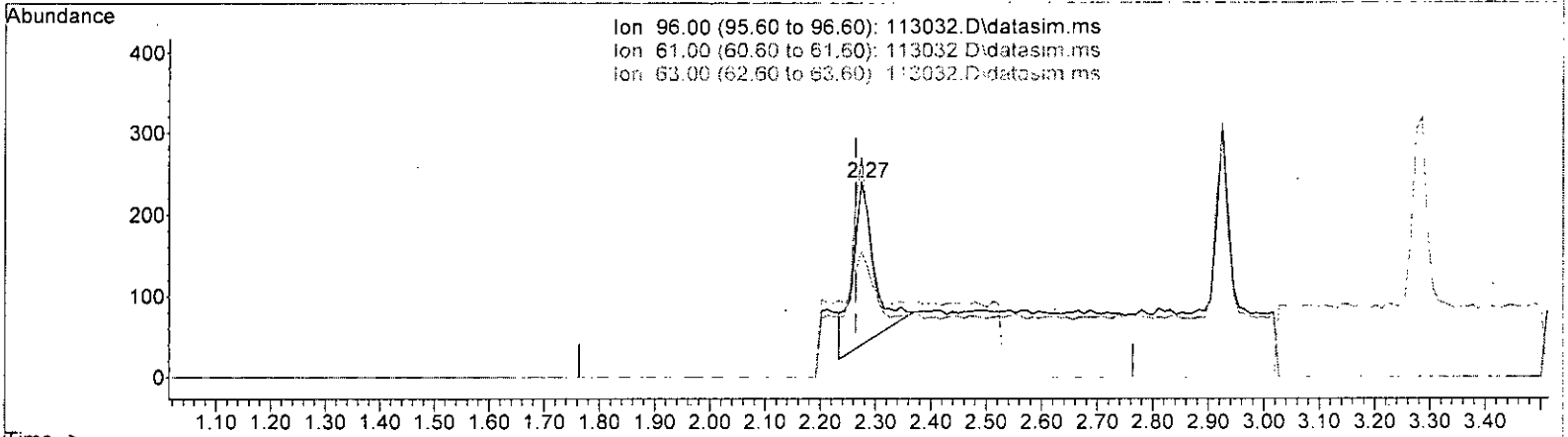
1.348min (+ 0.020) 0.092 ppb m

response	469	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	75.91#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.274min (+ 0.010) 0.158 ppb

response 536

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	121.88
63.00	41.10	40.00
0.00	0.00	0.00

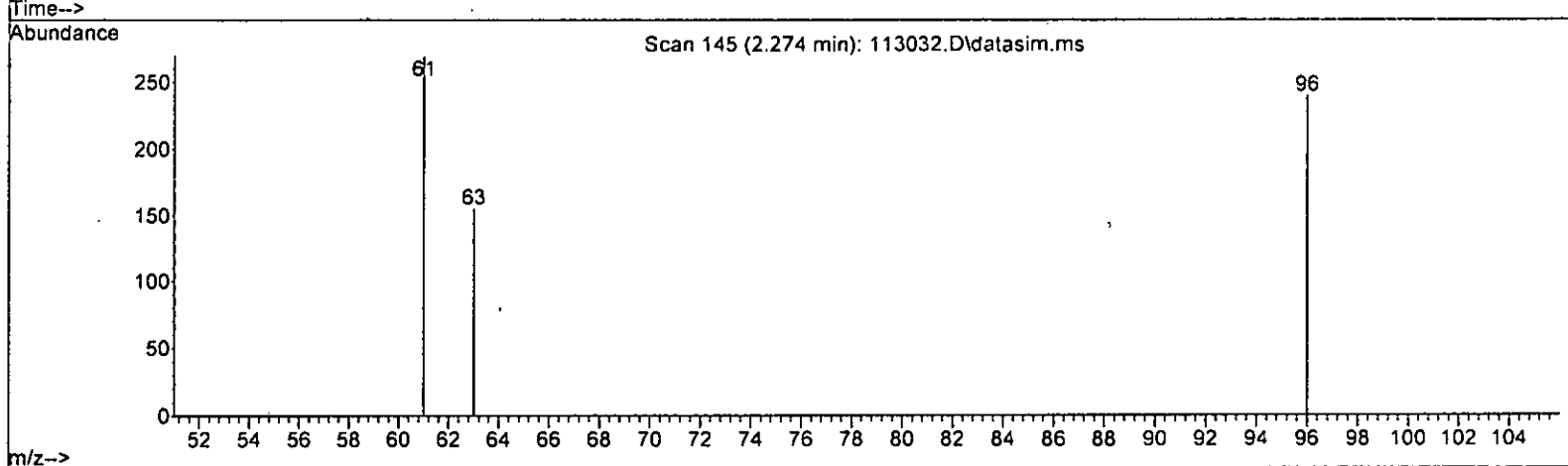
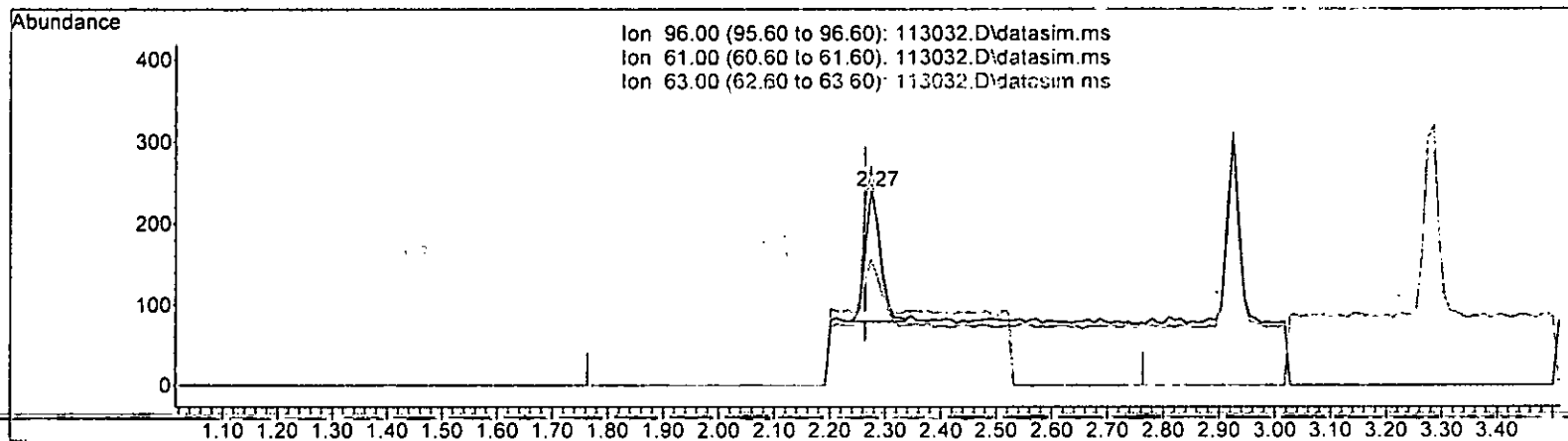
*m/z 12.1*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

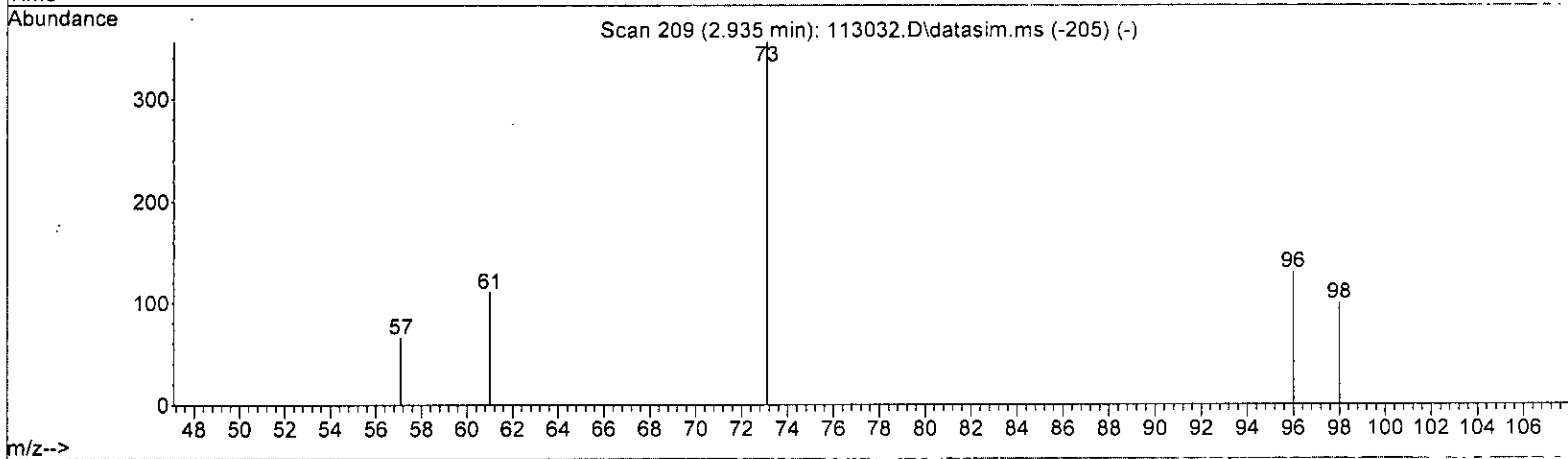
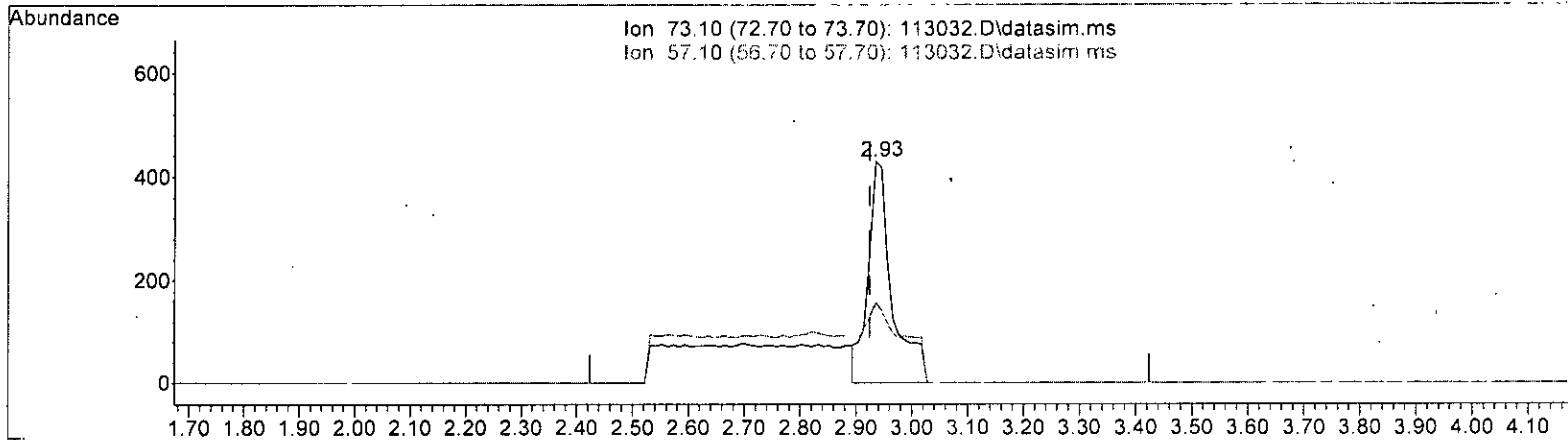
(12) 1,1-Dichloroethene (TMP) *m* 12.1  
 2.274min (+ 0.010) 0.089 ppb m  
 response 302

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	112.55
63.00	41.10	64.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.935min (+ 0.011) 0.156 ppb

response 1272

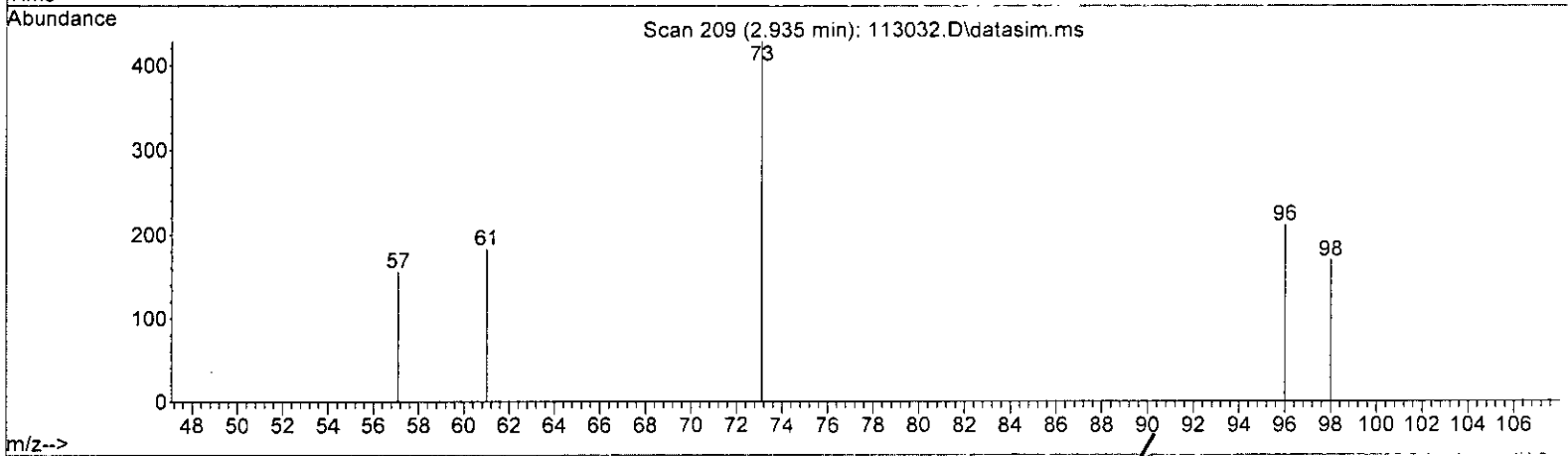
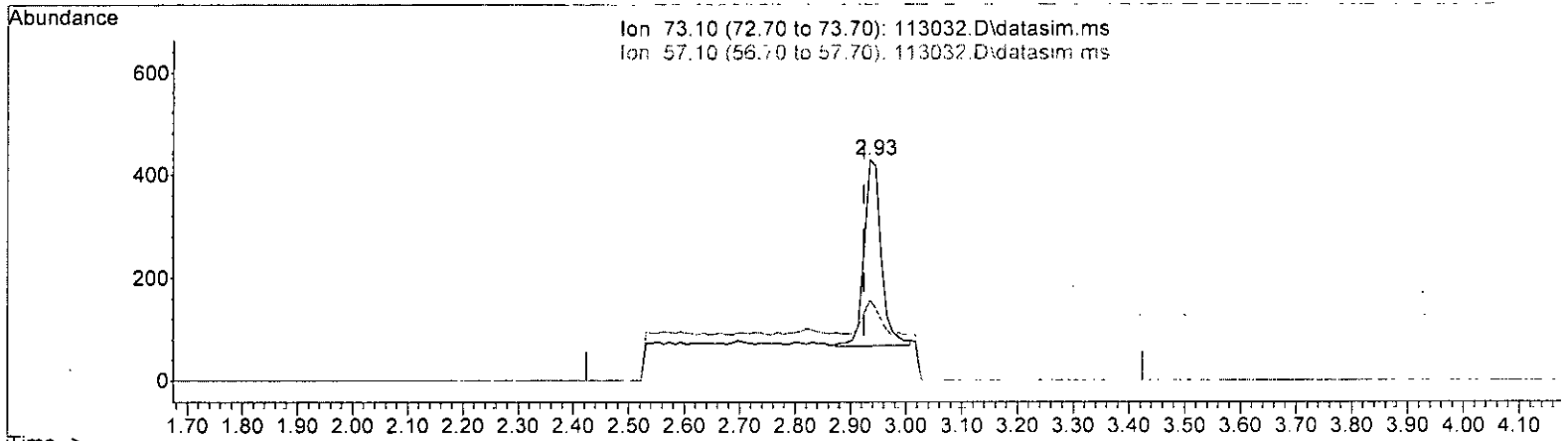
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	36.21
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.935min (+ 0.011) 0.095 ppb m

response 777

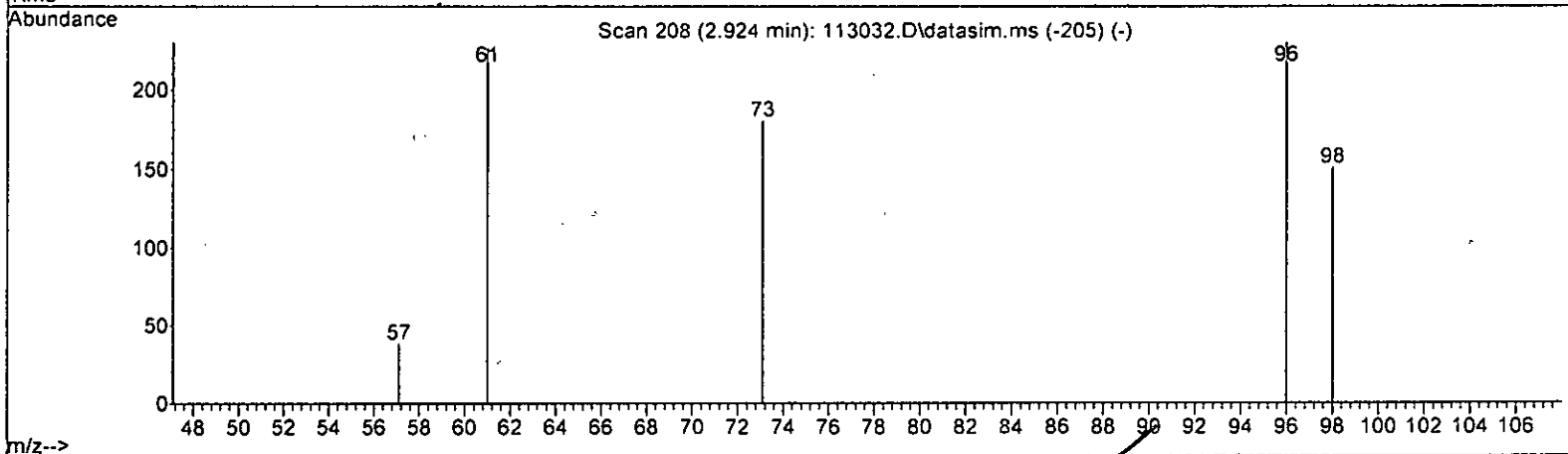
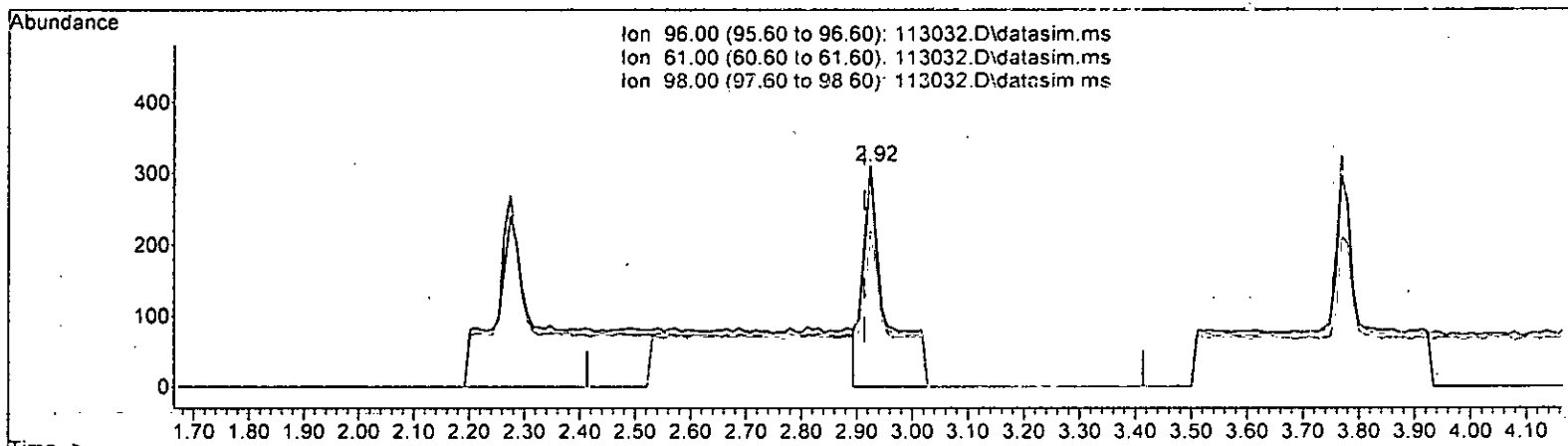
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	36.21
0.00	0.00	0.00
0.00	0.00	0.00

*✓ used*  
*M 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

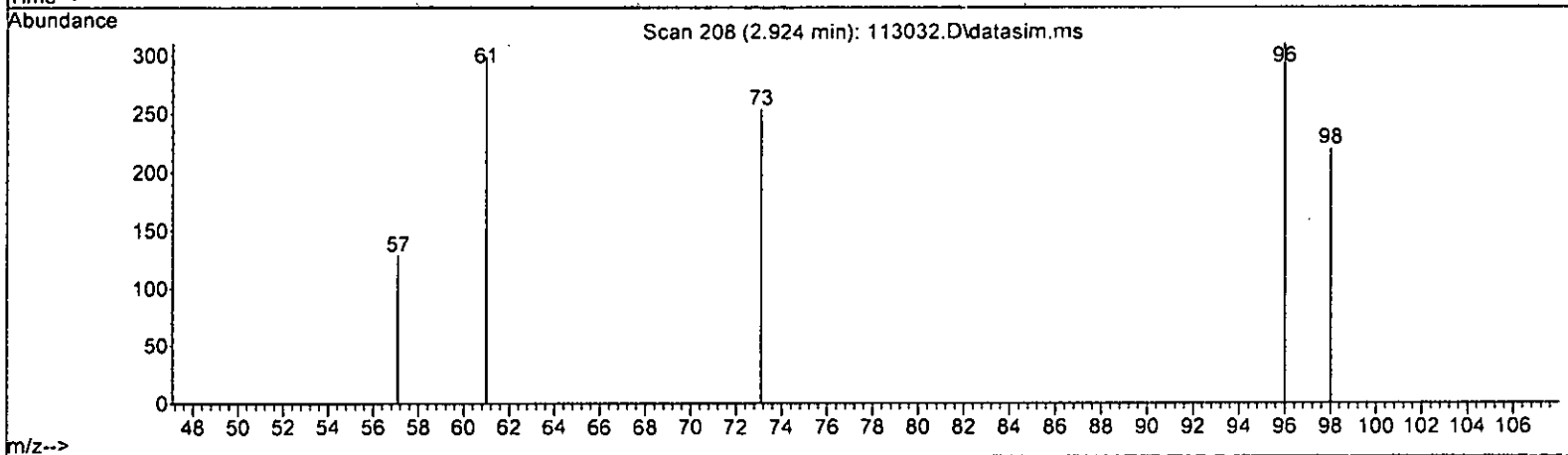
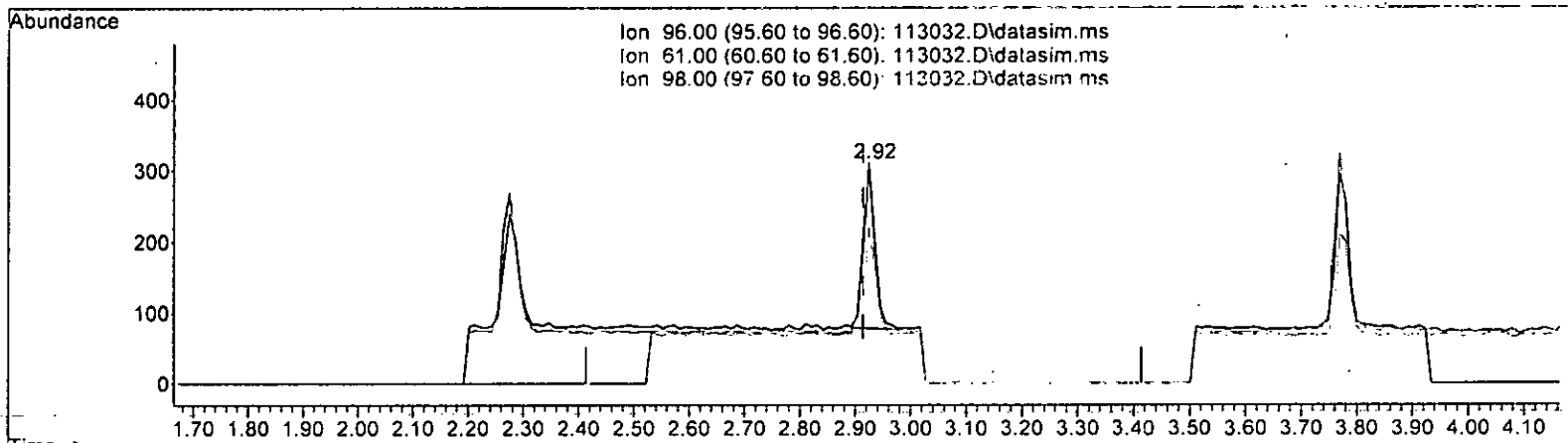
*m 121*

(17) trans-1,2-Dichloroethene (TMP)		
2.924min (+ 0.010)	0.241 ppb	
response	908	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	96.13
98.00	62.70	70.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 0.089 ppb m

response 335

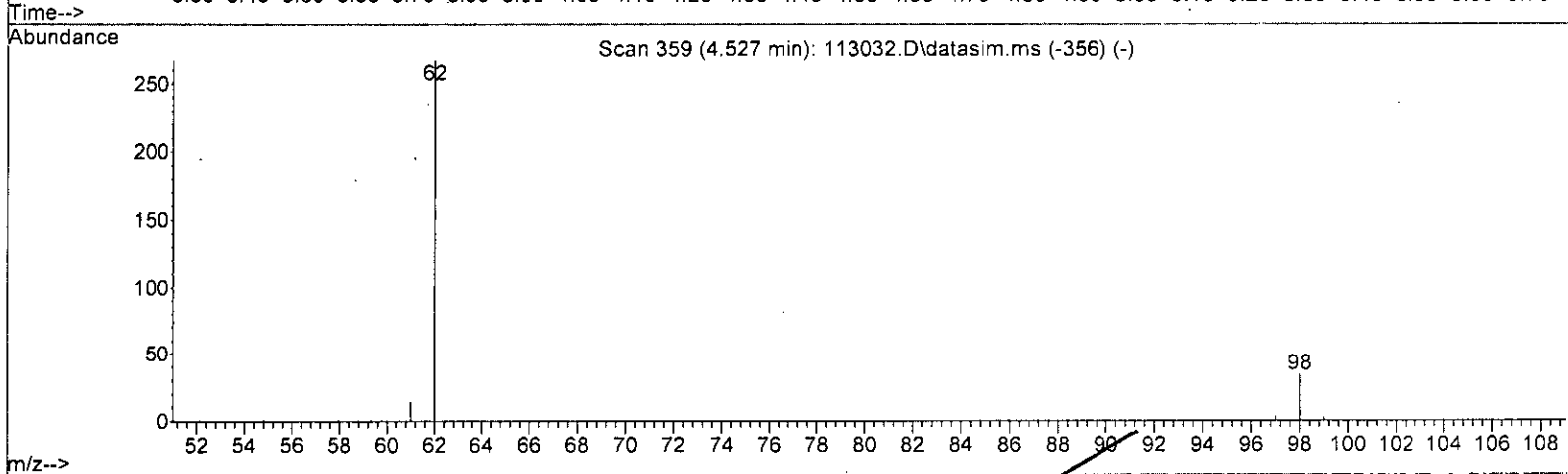
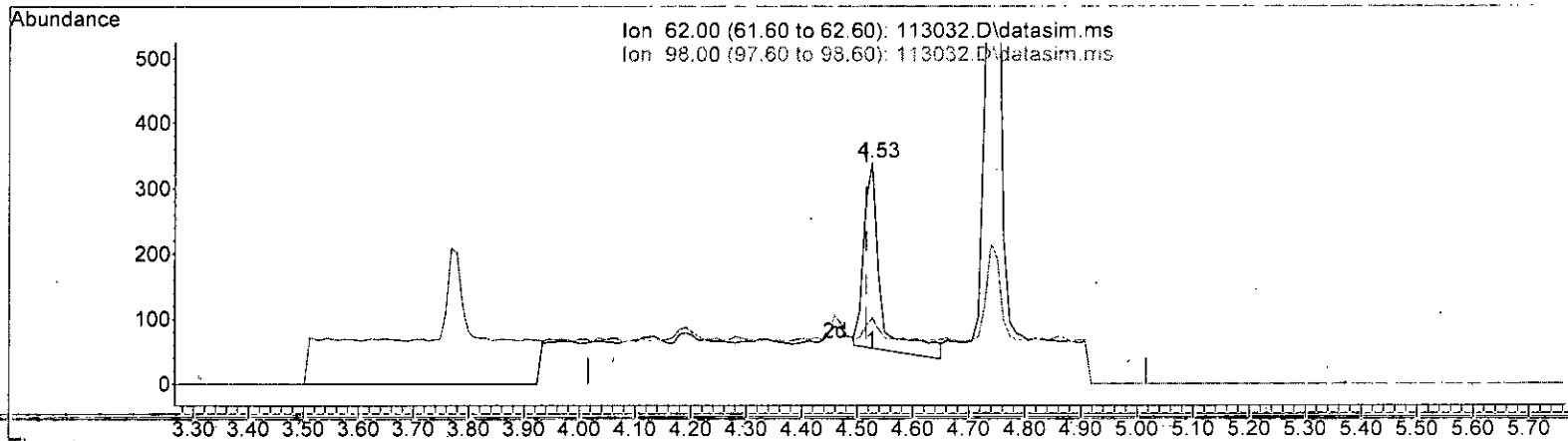
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	96.13
98.00	62.70	70.65
0.00	0.00	0.00

12.1  
LM

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(26) 1,2-Dichloroethane (EDC) (TMP) *m* 12.1

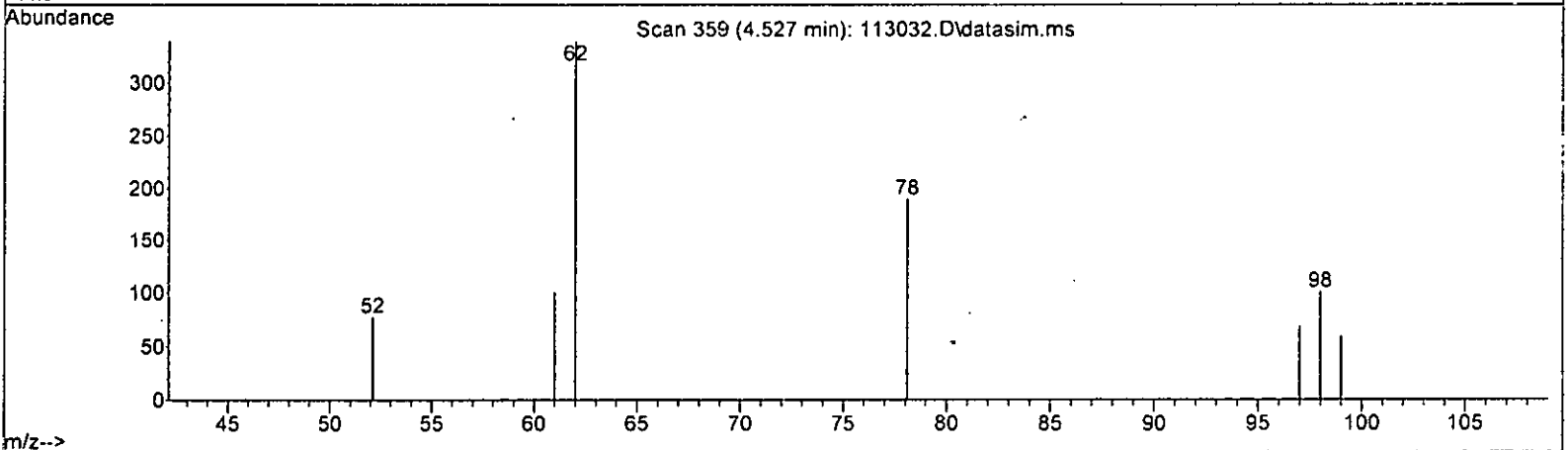
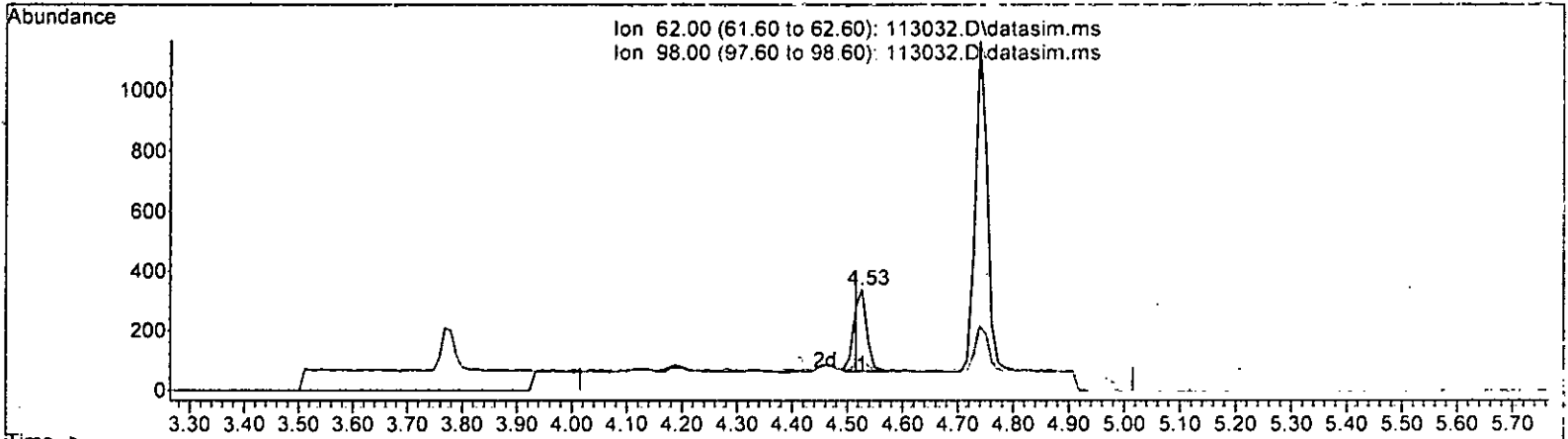
4.527min (+ 0.011) 0.125 ppb

response	599
Ion	Exp% Act%
62.00	100.00 100.00
98.00	8.90 12.23
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(26) 1,2-Dichloroethane (EDC) (TMP) *m 12.1*

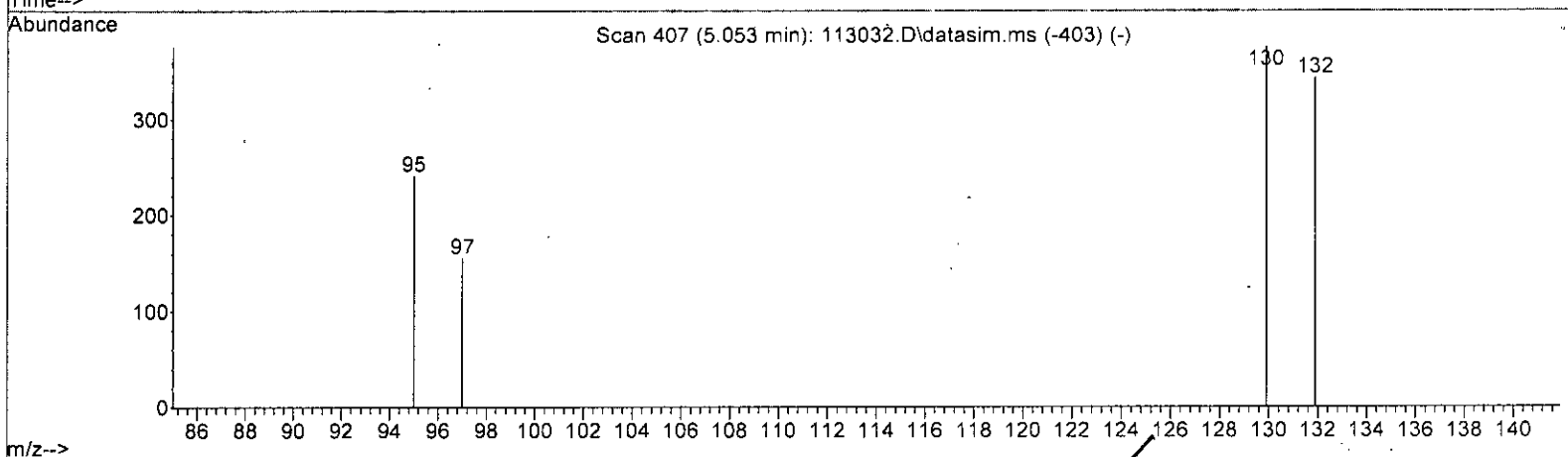
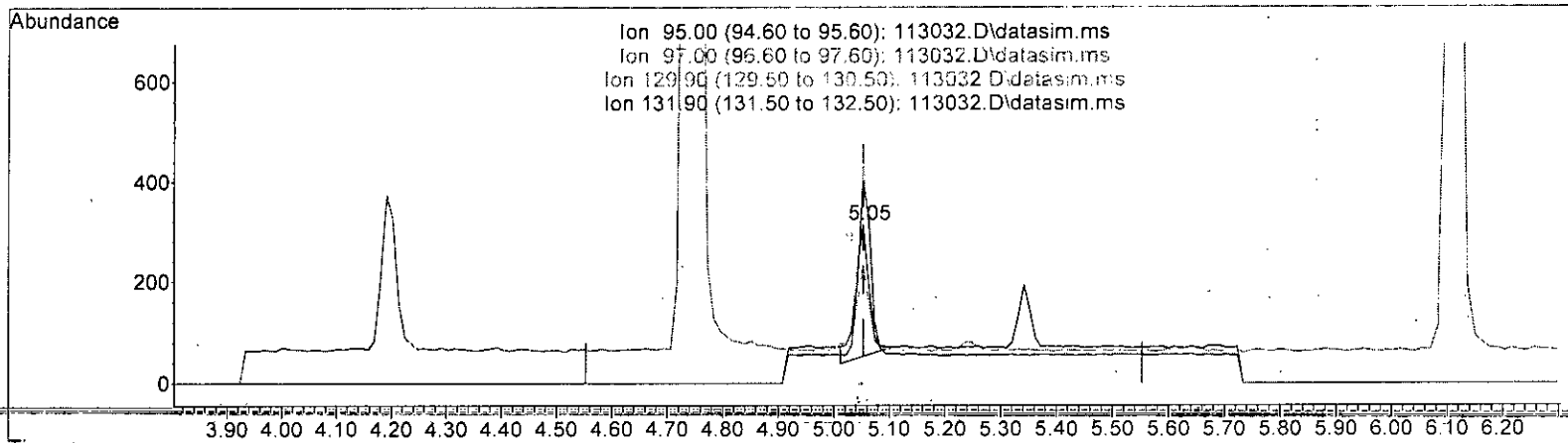
4.527min (+ 0.011) 0.088 ppb m

response	447	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	8.90	29.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

*m 12.1*

(32) Trichloroethene (TMP)  
 5.053min (-0.000) 0.107 ppb  
 response 448

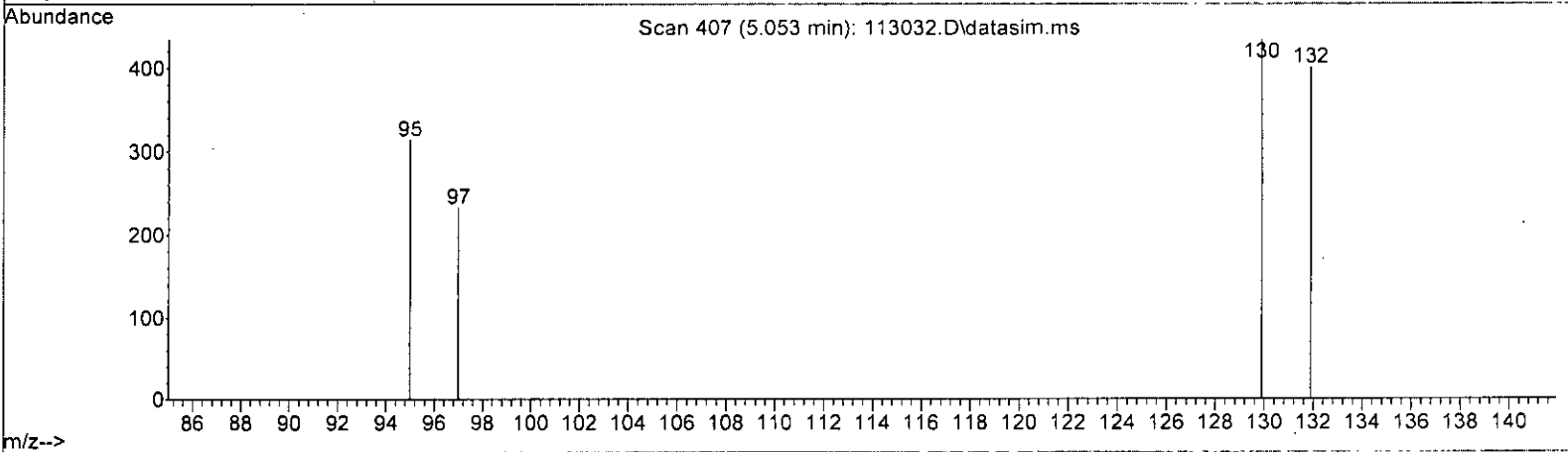
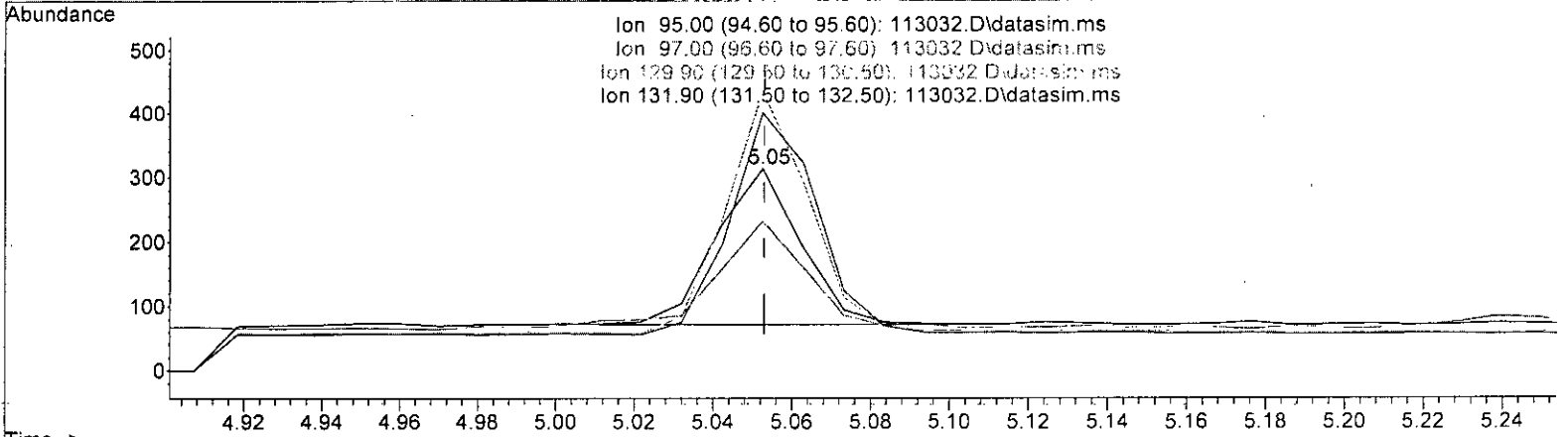
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	68.60
129.90	161.00	155.79
131.90	160.10	142.15



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(32) Trichloroethene (TMP)

5.053min (-0.000) 0.087 ppb m

response 362

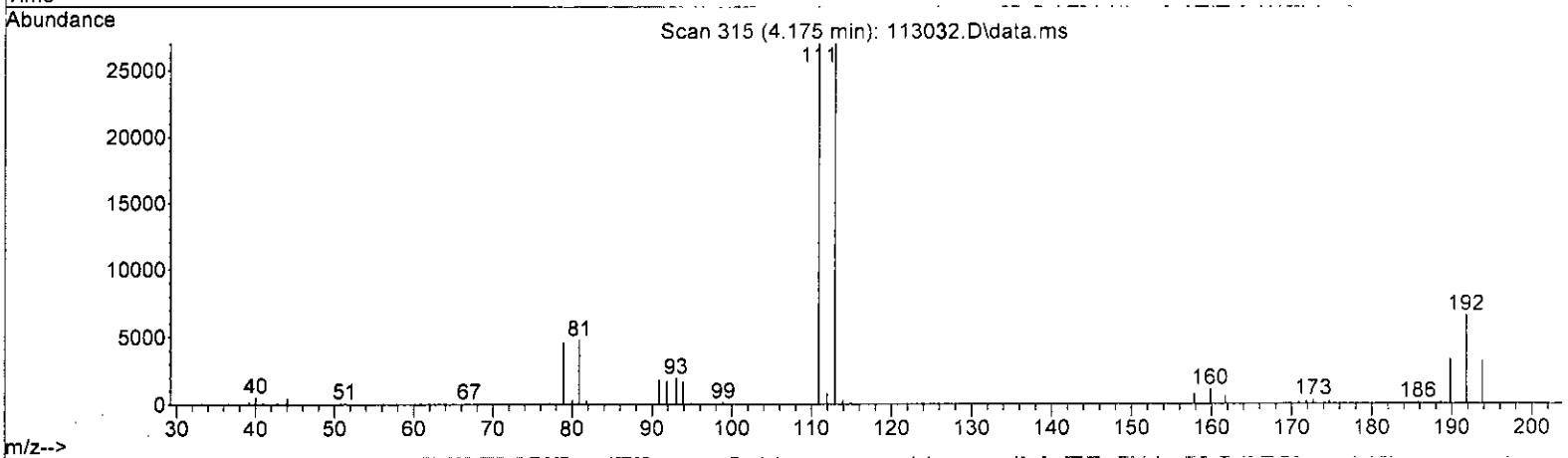
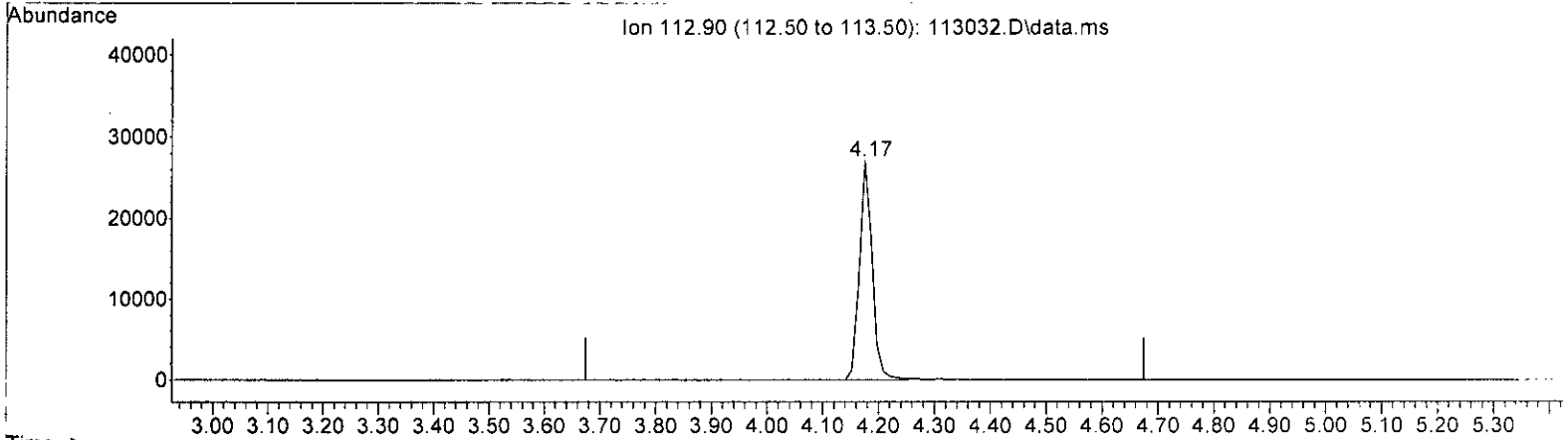
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	74.12
129.90	161.00	138.98
131.90	160.10	127.80#

*M 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113032.D\data.ms

(3) Dibromofluoromethane (S)		
4.175min (-0.000) 9.771 ppb m		
response	42674	
Ion	Exp%	Act%
112.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*accidental  
 deletion  
 12.1  
 m*

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.75	96	137091	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	110964	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	69191	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	0.00	113	0d	0.000	ppb	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	0.00%#	
30) 1,2-Dichloroethane-d4	4.45	102	7645	9.340	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	93.40%	
35) Toluene-d8	6.11	98	114799	9.316	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	93.20%	
57) 4-Bromofluorobenzene	8.51	95	43095	10.278	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	102.80%	

*Handwritten notes:*  
 ← 9.771 ppb  
 97.71%  
 W  
 12.1

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.	d	
4) Dichlorodifluoromethane	0.00		0	N.D.	d	
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.35	62	469m	0.092	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.	d	
9) Trichlorofluoromethane	0.00		0	N.D.	d	
10) 2-Propanol	0.00		0	N.D.	d	
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.27	96	302m	0.089	ppb	
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
16] Methyl t-butyl ether (...)	2.93	73	777m	0.095	ppb	
17] trans-1,2-Dichloroethene	2.92	96	335m	0.089	ppb	
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d	
19] 1,1-Dichloroethane	3.28	63	424	0.091	ppb	98
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d	
21) 2,2-Dichloropropane	0.00		0	N.D.	d	
22] cis-1,2-Dichloroethene	3.77	96	363	0.089	ppb	88
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26] 1,2-Dichloroethane (EDC)	4.53	62	447m	0.088	ppb	
27] 1,1,1-Trichloroethane	4.19	97	566	0.088	ppb	95
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.	d	
31] Benzene	4.50	78	1068	0.085	ppb	95
32] Trichloroethene	5.05	95	362m	0.087	ppb	
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.	d	

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

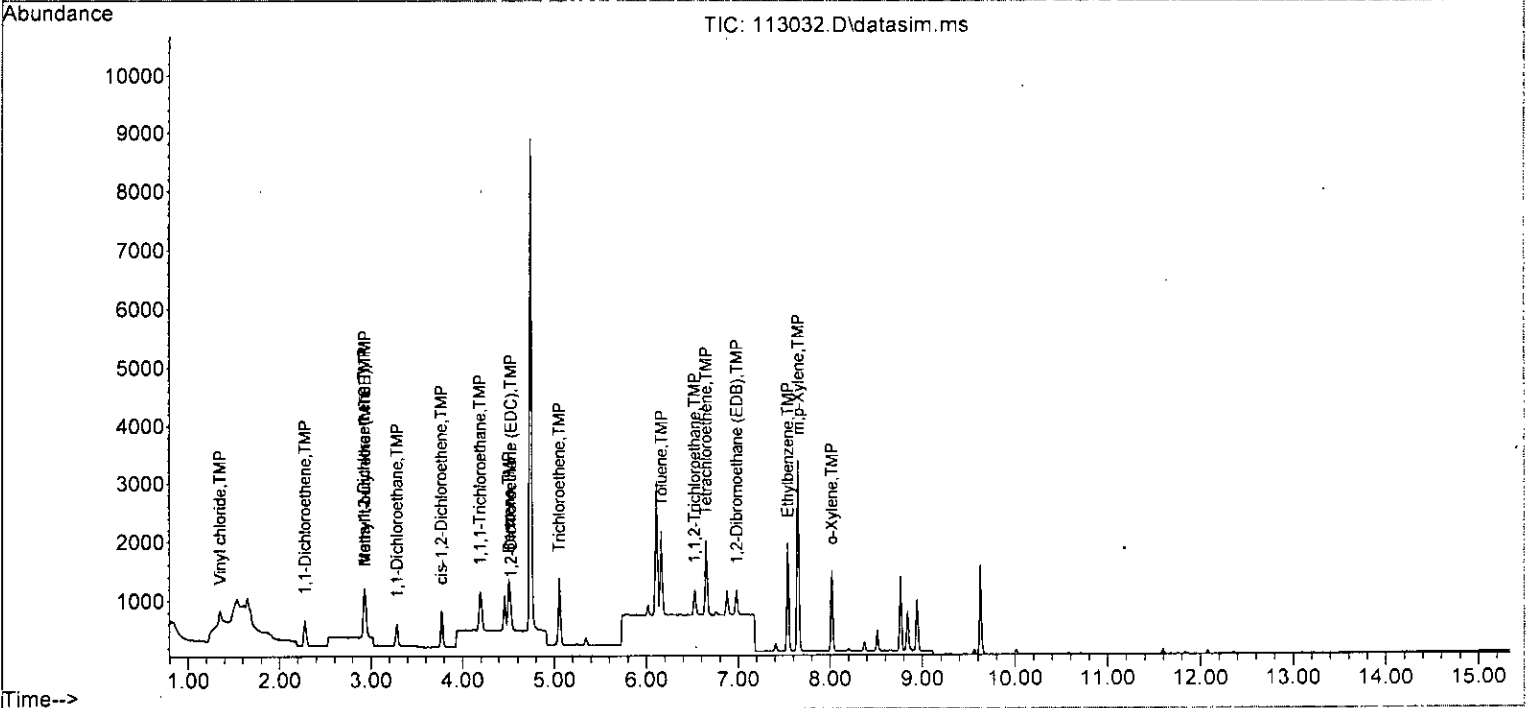
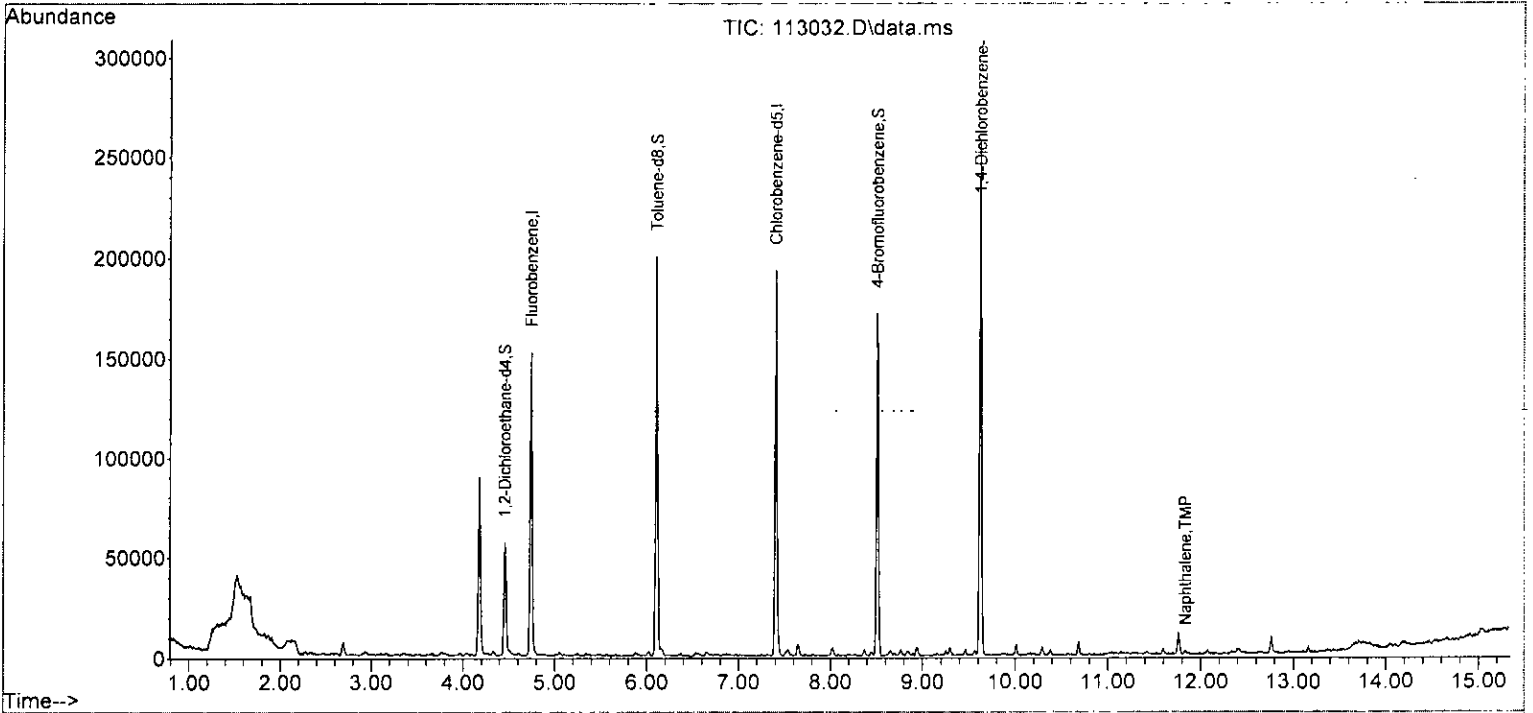
Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.16	92	732	0.088	ppb	97
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42] 1,1,2-Trichloroethane	6.53	83	232	0.099	ppb	93
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.65	164	474	0.092	ppb	95
46) Dibromochloromethane	0.00		0	N.D.	d	
47] 1,2-Dibromoethane (EDB)	6.98	107	340	0.084	ppb	89
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.54	91	1862	0.086	ppb	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.65	106	1754	0.170	ppb	99
52] o-Xylene	8.02	106	686	0.090	ppb	94
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.	d	
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.	d	
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	d	
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	11.83	128	1526	0.114	ppb	93
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	0	-2.33#
3 S Dibromofluoromethane	10.000	0.000	100.0#	0	-4.17#
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.11#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP Vinyl chloride	0.100	0.092	8.0	100	0.02
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.83#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.33#
11 TMP Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP 1,1-Dichloroethene	0.100	0.089	11.0	97	0.01
13 TMP Hexane	-1.000	0.000	0.0	0	-3.16#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.100	0.095	5.0	105	0.01
17 TMP trans-1,2-Dichloroethene	0.100	0.089	11.0	96	0.01
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.34#
19 TMP 1,1-Dichloroethane	0.100	0.091	9.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.65#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.76#
22 TMP cis-1,2-Dichloroethene	0.100	0.089	11.0	100	0.00
23 TMP Chloroform	-1.000	0.000	0.0	0	-4.04#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.61#
26 TMP 1,2-Dichloroethane (EDC)	0.100	0.088	12.0	101	0.01
27 TMP 1,1,1-Trichloroethane	0.100	0.088	12.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.33#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.33#
30 S 1,2-Dichloroethane-d4	10.000	9.340	6.6	100	0.00
31 TMP Benzene	0.100	0.085	15.0	100	0.00
32 TMP Trichloroethene	0.100	0.087	13.0	100	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.24#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.48#
35 S Toluene-d8	10.000	9.316	6.8	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.34#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.88#
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.100	0.088	12.0	100	0.00
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.36#
42 TMP 1,1,2-Trichloroethane	0.100	0.099	1.0	100	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.76#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.67#
45 TMP Tetrachloroethene	0.100	0.092	8.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.100	0.084	16.0	100	0.01
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.43#
49 TMP Ethylbenzene	0.100	0.086	14.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.51#
51 TMP m,p-Xylene	0.200	0.170	15.0	100	0.00
52 TMP o-Xylene	0.100	0.090	10.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-8.03#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.37#
55 TMP Bromoform	-1.000	0.000	0.0	0	8.20#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.278	-2.8	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.77#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.65#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.94#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.66#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.70#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.84#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.95#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.25#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.30#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.46#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.61#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.56#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.64#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-10.01#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.59#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.77#
75 TMP Naphthalene	0.100	0.114	-14.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-12.08#

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	0#	-2.33#
3 S Dibromofluoromethane	0.319	0.000	100.0#	0#	-4.17#
4 TMP Dichlorodifluoromethane	0.582	0.000#	100.0#	0#	-1.11#
5 TMP Chloromethane	0.386	0.000#	100.0#	0#	-1.25#
6 TMP Vinyl chloride	0.373	0.342	8.3	100	0.02
7 TMP Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.200	0.000#	100.0#	0#	-1.64#
9 TMP Trichlorofluoromethane	1.015	0.000#	100.0#	0#	-1.83#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.33#
11 TMP Acetone	0.022	0.000#	100.0#	0#	-2.32#
12 TMP 1,1-Dichloroethene	0.248	0.220	11.3	97	0.01
13 TMP Hexane	0.244	0.000#	100.0#	0#	-3.16#
14 TMP Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.022	0.000#	100.0#	0#	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.567	4.9	105	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.244	10.9	96	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.000#	100.0#	0#	-3.34#
19 TMP 1,1-Dichloroethane	0.341	0.309	9.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.000#	100.0#	0#	-3.65#
21 TMP 2,2-Dichloropropane	0.297	0.000#	100.0#	0#	-3.76#
22 TMP cis-1,2-Dichloroethene	0.296	0.265	10.5	100	0.00
23 TMP Chloroform	0.441	0.000#	100.0#	0#	-4.04#
24 TMP 2-Butanone (MEK)	0.102	0.000#	100.0#	0#	-3.78#
25 TMP t-Amyl methyl ether (TAME)	0.551	0.000#	100.0#	0#	-4.61#
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.326	2.4	101	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.413	11.8	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.000#	100.0#	0#	-4.33#
29 TMP Carbon tetrachloride	0.497	0.000#	100.0#	0#	-4.33#
30 S 1,2-Dichloroethane-d4	0.060	0.056	6.7	100	0.00
31 TMP Benzene	0.849	0.779	8.2	100	0.00
32 TMP Trichloroethene	0.304	0.264	13.2	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.000#	100.0#	0#	-5.24#
34 TMP Bromodichloromethane	0.316	0.000#	100.0#	0#	-5.48#
35 S Toluene-d8	0.899	0.837	6.9	100	0.00
36 TMP Dibromomethane	0.173	0.000#	100.0#	0#	-5.34#
37 TMP 4-Methyl-2-pentanone	0.040	0.000#	100.0#	0#	-6.01#
38 TMP cis-1,3-Dichloropropene	0.329	0.000#	100.0#	0#	-5.88#
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.660	8.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.000#	100.0#	0#	-6.36#
42 TMP 1,1,2-Trichloroethane	0.204	0.209	-2.5	100	0.00
43 TMP 2-Hexanone	0.142	0.000#	100.0#	0#	-6.76#



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113032.D  
 Acq On : 30 Nov 2022 11:29 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:30:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:27:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.000#	100.0#	0#	-6.67#
45 TMP Tetrachloroethene	0.443	0.427	3.6	100	0.00
46 TMP Dibromochloromethane	0.425	0.000#	100.0#	0#	-6.87#
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.306	8.7	100	0.01
48 TMP Chlorobenzene	0.943	0.000#	100.0#	0#	-7.43#
49 TMP Ethylbenzene	1.560	1.678	-7.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.000#	100.0#	0#	-7.51#
51 TMP m,p-Xylene	0.718	0.790	-10.0	100	0.00
52 TMP o-Xylene	0.611	0.618	-1.1	100	0.00
53 TMP Styrene	0.848	0.000#	100.0#	0#	-8.03#
54 TMP Isopropylbenzene	1.353	0.000#	100.0#	0#	-8.37#
55 TMP Bromoform	0.302	0.000#	100.0#	0#	-8.20#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.623	-2.8	100	0.00
58 TMP n-Propylbenzene	2.257	0.000#	100.0#	0#	-8.77#
59 TMP Bromobenzene	0.821	0.000#	100.0#	0#	-8.65#
60 TMP 1,3,5-Trimethylbenzene	1.836	0.000#	100.0#	0#	-8.94#
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.000#	100.0#	0#	-8.66#
62 TMP 1,2,3-Trichloropropane	0.337	0.000#	100.0#	0#	-8.70#
63 TMP 2-Chlorotoluene	1.282	0.000#	100.0#	0#	-8.84#
64 TMP 4-Chlorotoluene	1.552	0.000#	100.0#	0#	-8.95#
65 TMP tert-Butylbenzene	1.946	0.000#	100.0#	0#	-9.25#
66 TMP 1,2,4-Trimethylbenzene	1.975	0.000#	100.0#	0#	-9.30#
67 TMP sec-Butylbenzene	2.396	0.000#	100.0#	0#	-9.46#
68 TMP p-Isopropyltoluene	2.400	0.000#	100.0#	0#	-9.61#
69 TMP 1,3-Dichlorobenzene	1.476	0.000#	100.0#	0#	-9.56#
70 TMP 1,4-Dichlorobenzene	1.456	0.000#	100.0#	0#	-9.64#
71 TMP 1,2-Dichlorobenzene	1.422	0.000#	100.0#	0#	-10.01#
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.997	0.000#	100.0#	0#	-11.59#
74 TMP Hexachlorobutadiene	0.588	0.000#	100.0#	0#	-11.77#
75 TMP Naphthalene	1.938	2.205	-13.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.000#	100.0#	0#	-12.08#

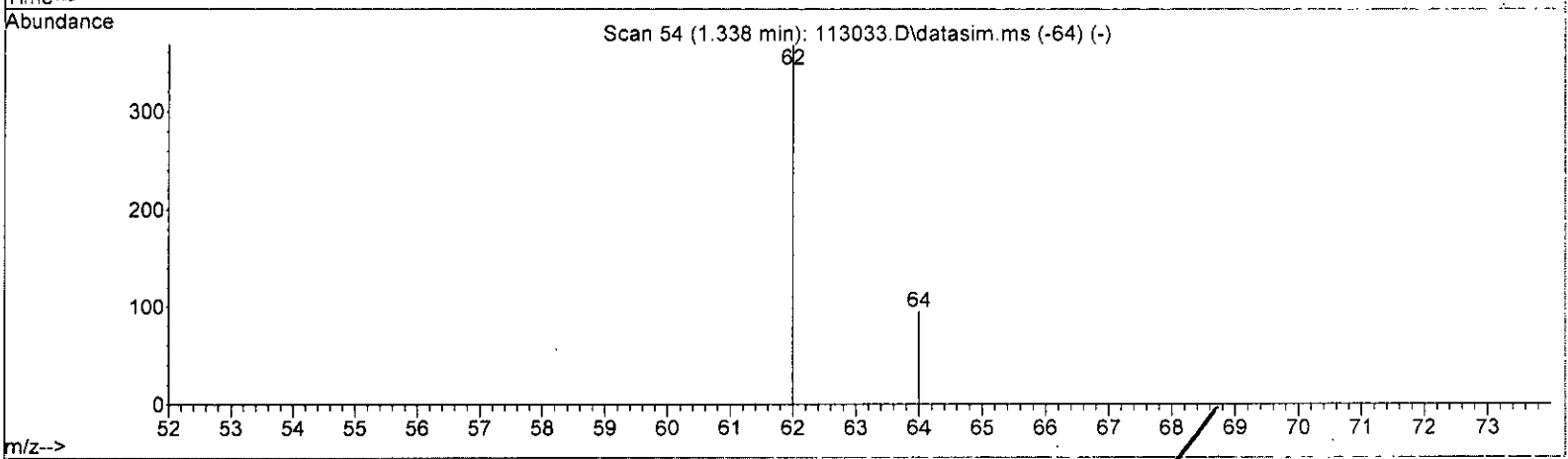
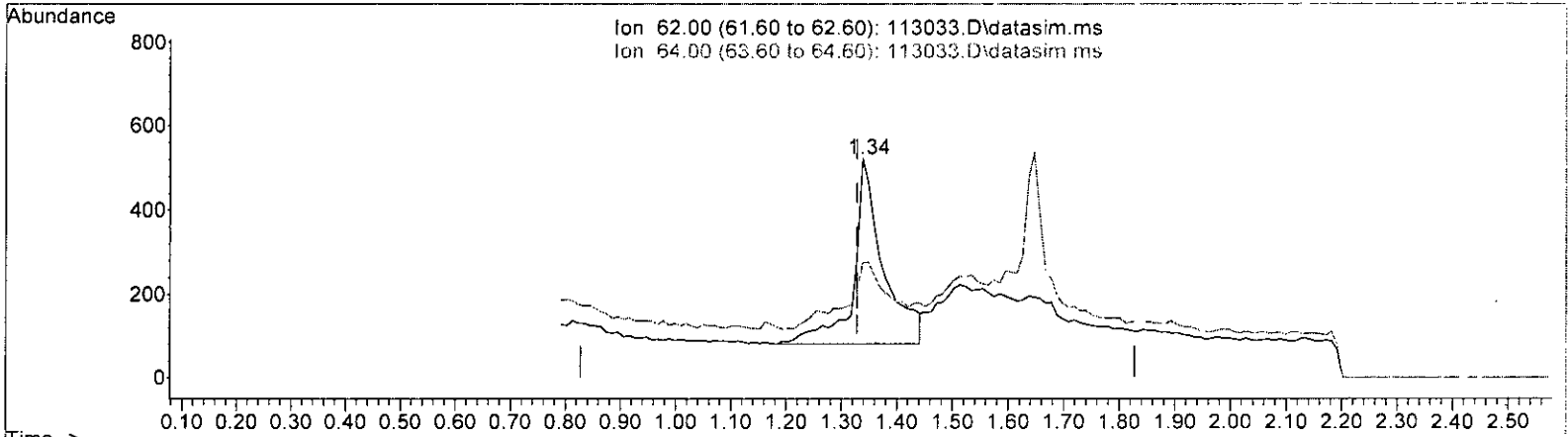
(#) = Out of Range

SPCC's out = 50 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 0.327 ppb

response 1657

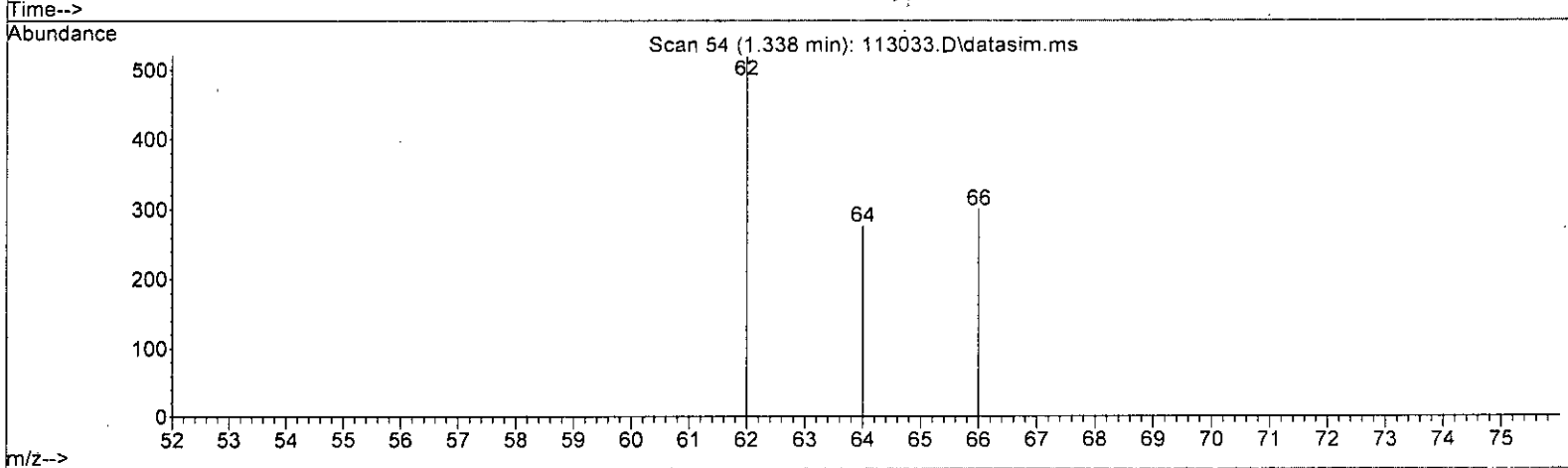
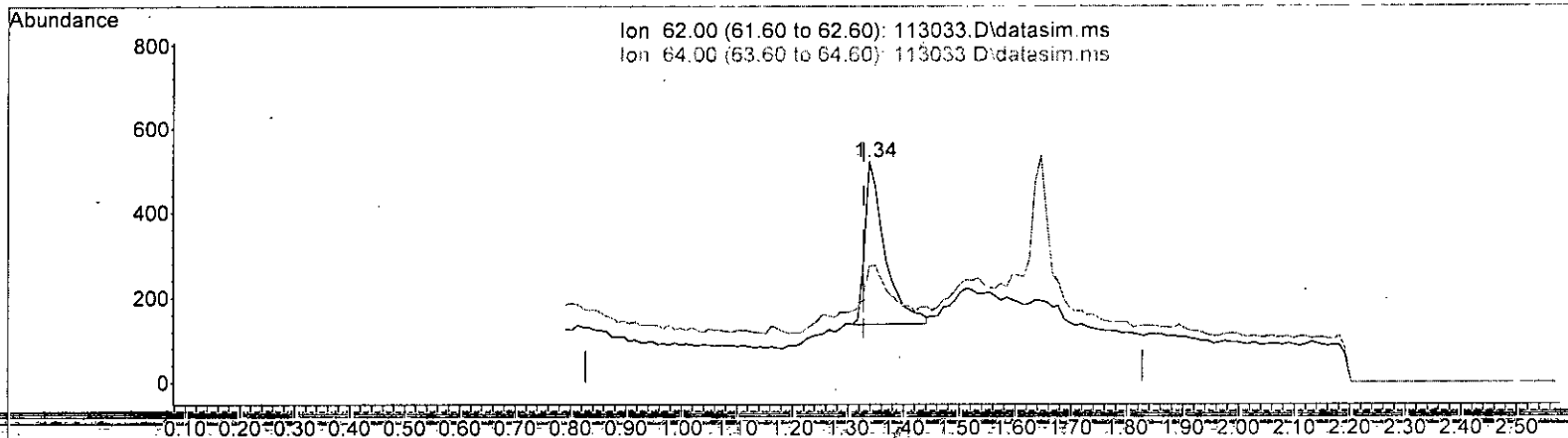
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	35.00
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 0.190 ppb m

response 961

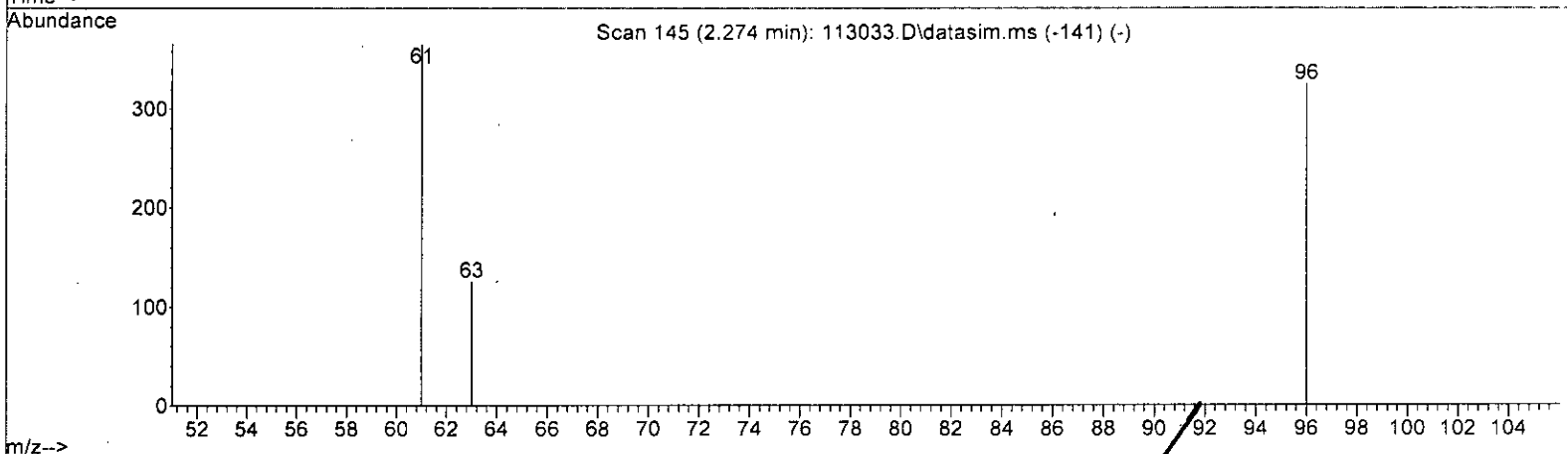
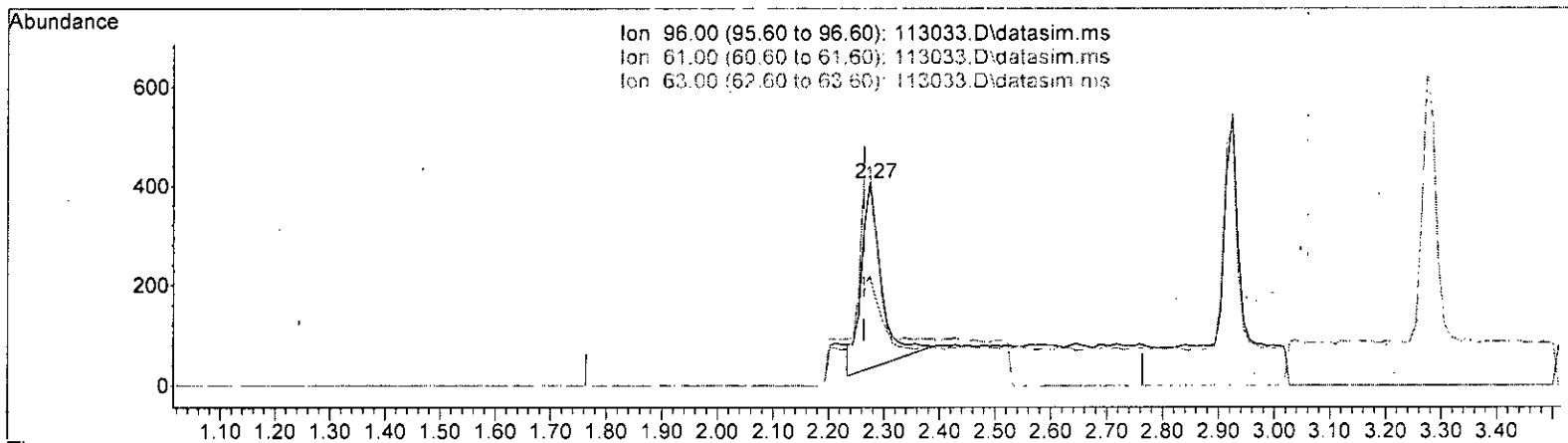
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	52.69
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.274min (+ 0.010) 0.279 ppb

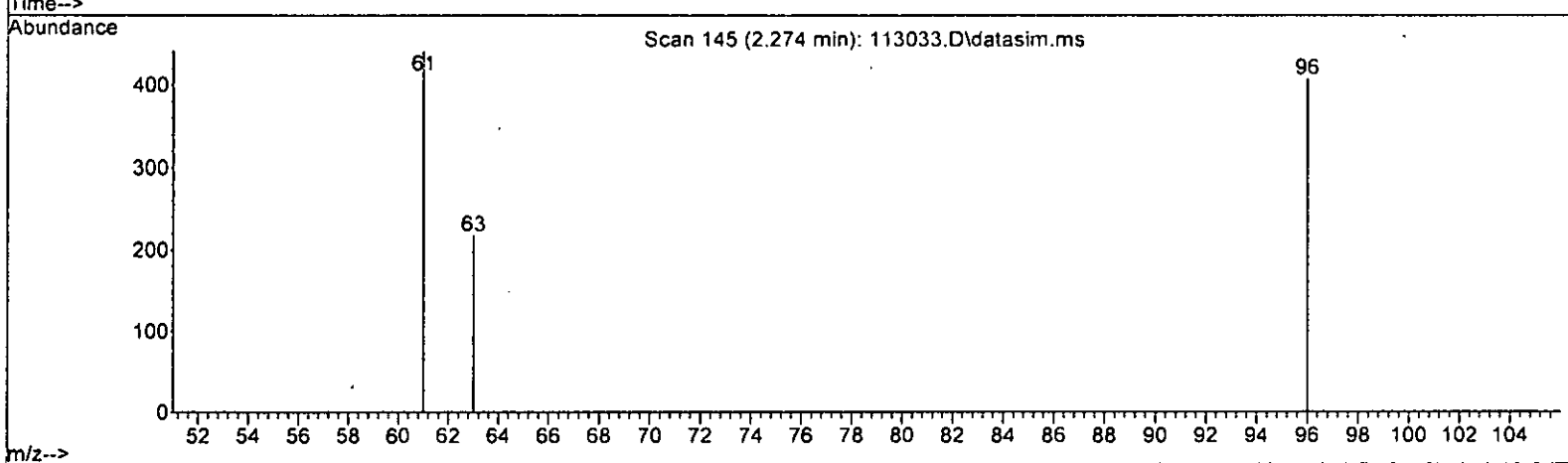
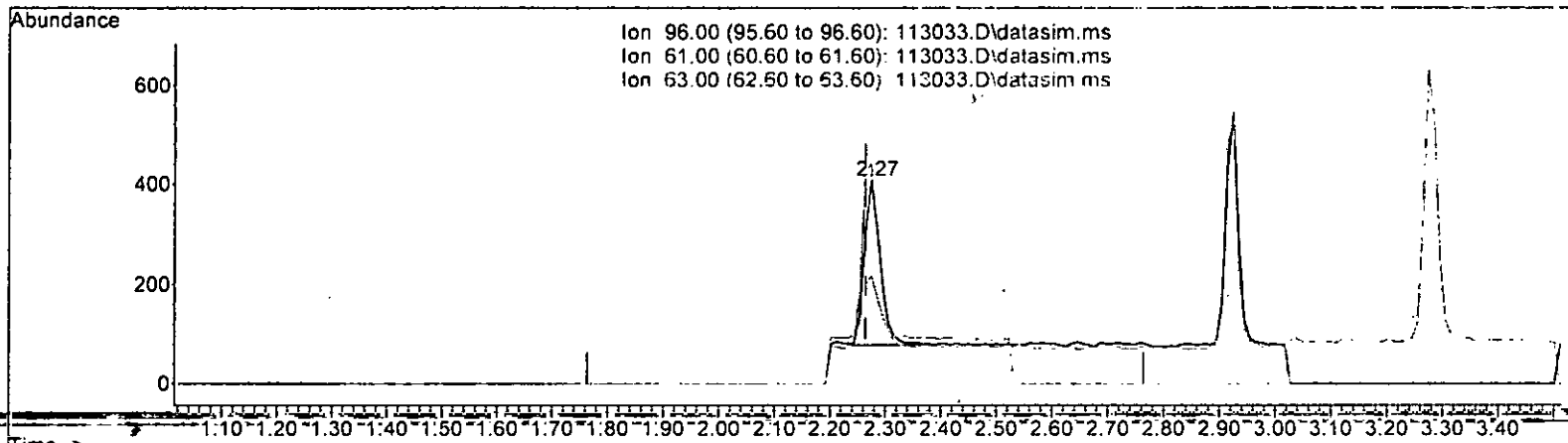
response	938	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	111.82
63.00	41.10	37.88
0.00	0.00	0.00

*m/z 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

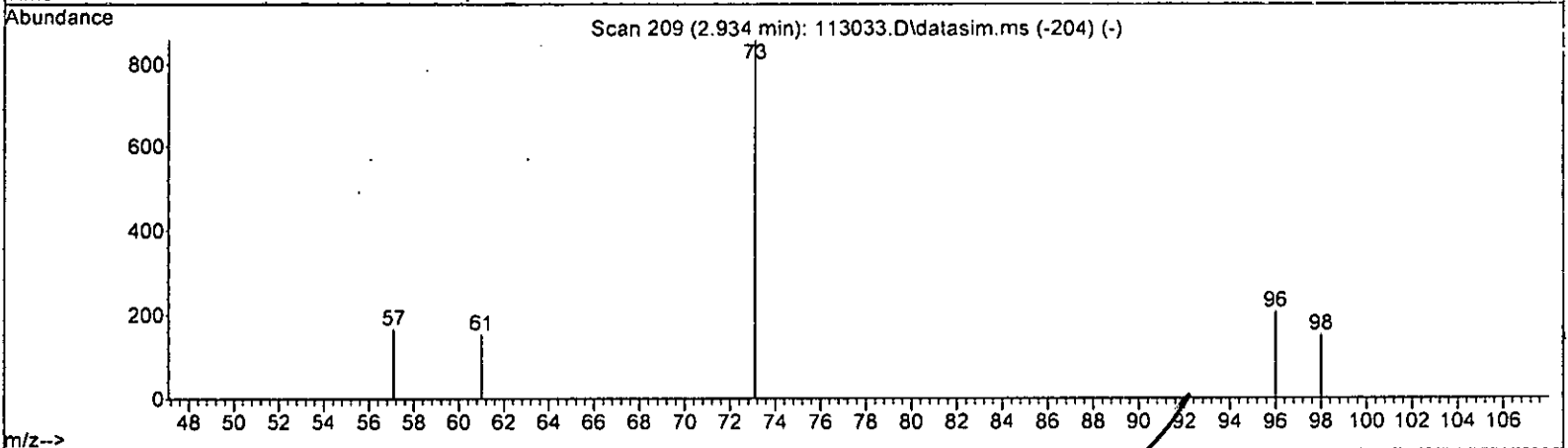
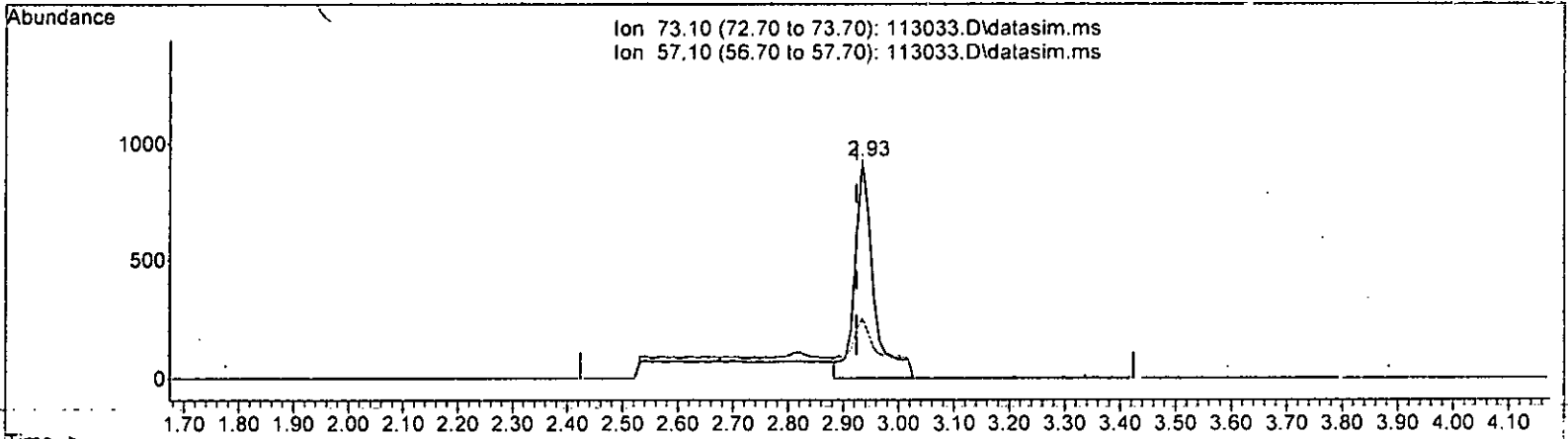
(12) 1,1-Dichloroethene (TMP) *m* 12.1  
 2.274min (+ 0.010) 0.198 ppb m  
 response 667

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	108.35
63.00	41.10	53.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.934min (+ 0.010) 0.268 ppb

response 2170

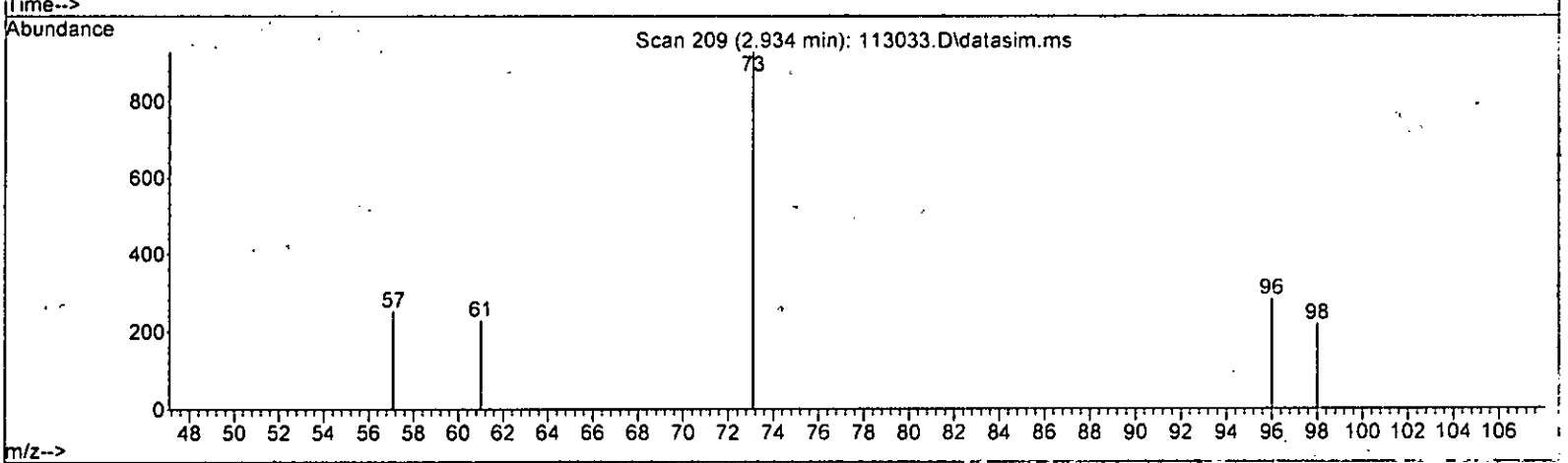
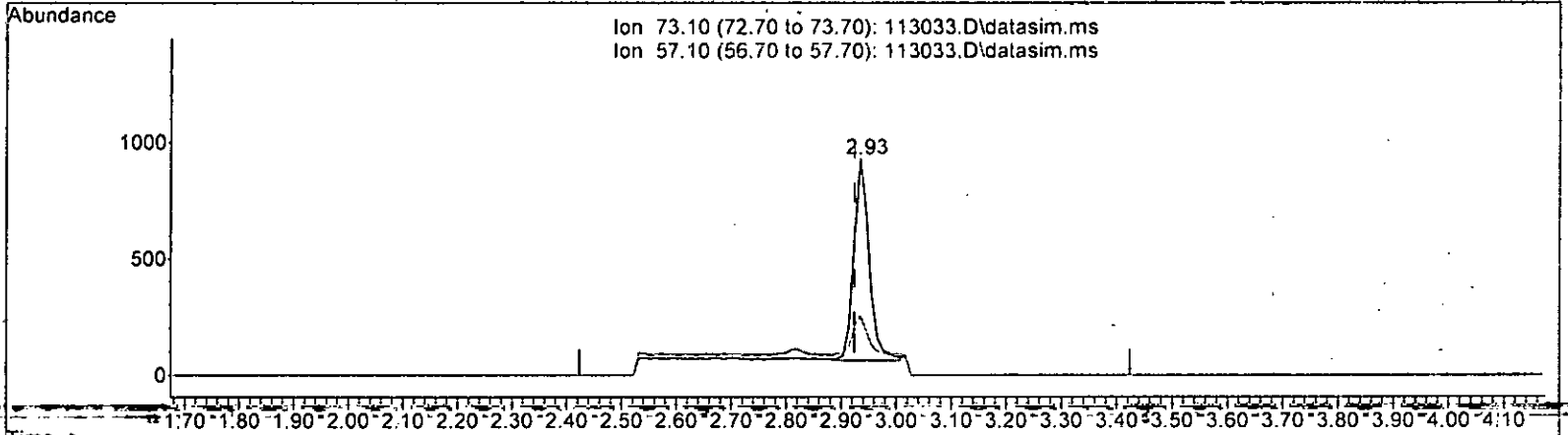
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	27.08
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.934min (+ 0.010) 0.204 ppb m

response 1652

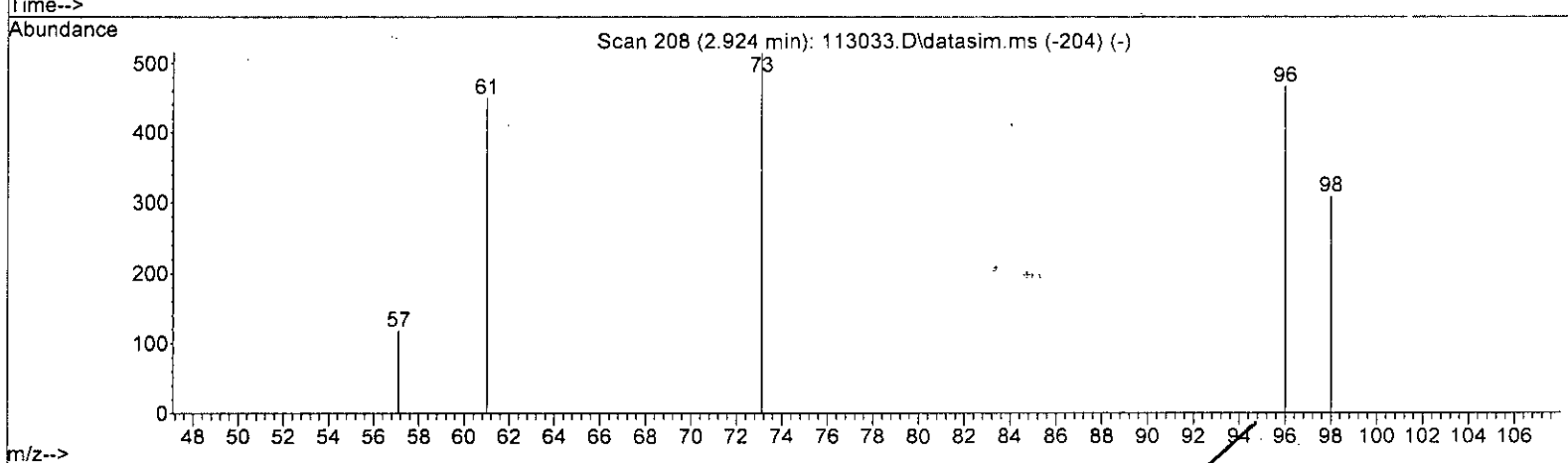
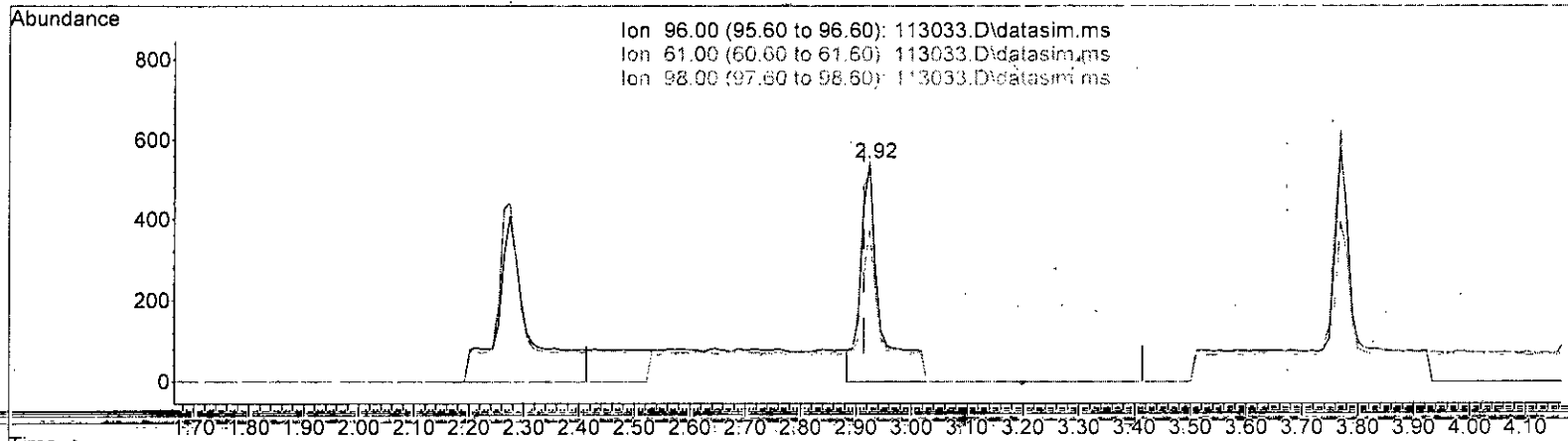
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	27.08
0.00	0.00	0.00
0.00	0.00	0.00

m/z:1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)  
 2.924min (+ 0.010) 0.362 ppb

response	1350
Ion	Exp% Act%
96.00	100.00 100.00
61.00	107.00 96.32
98.00	62.70 69.12
0.00	0.00 0.00

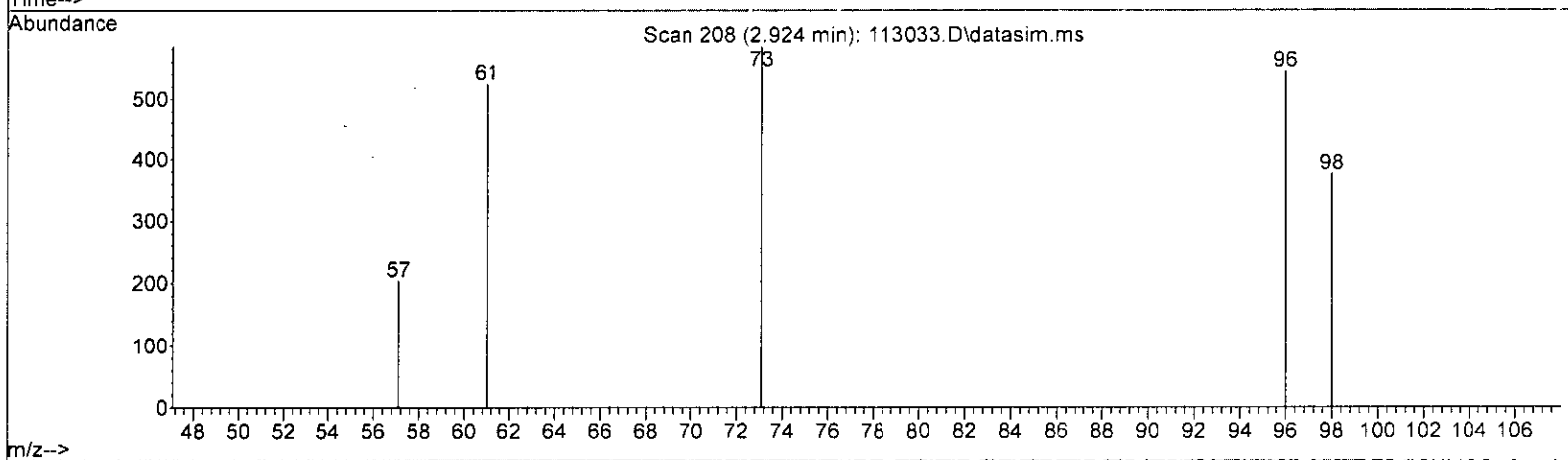
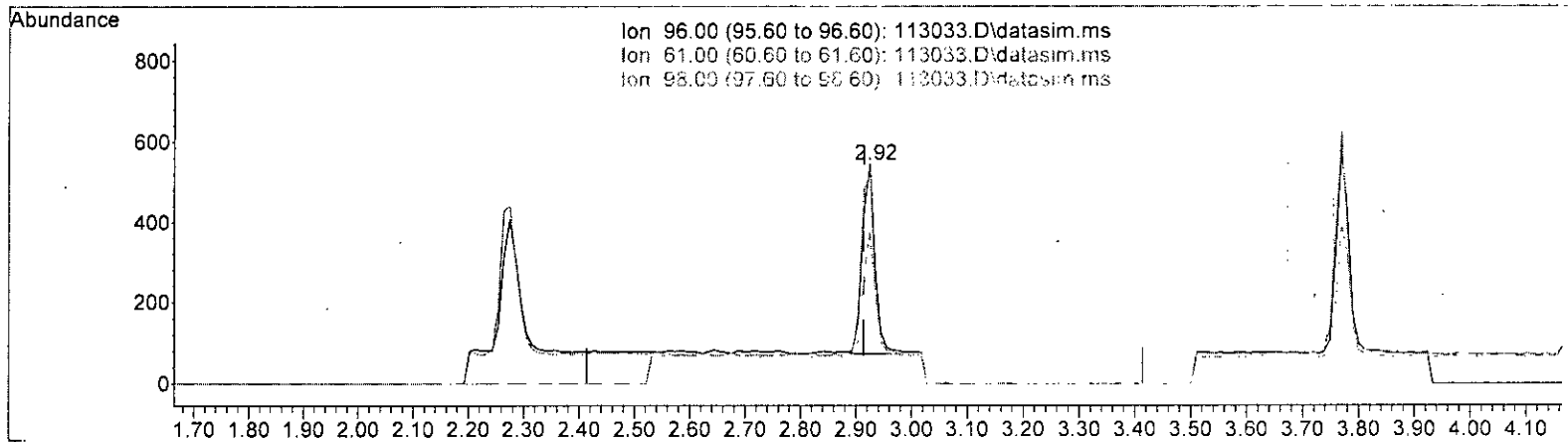
*m 12.1*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

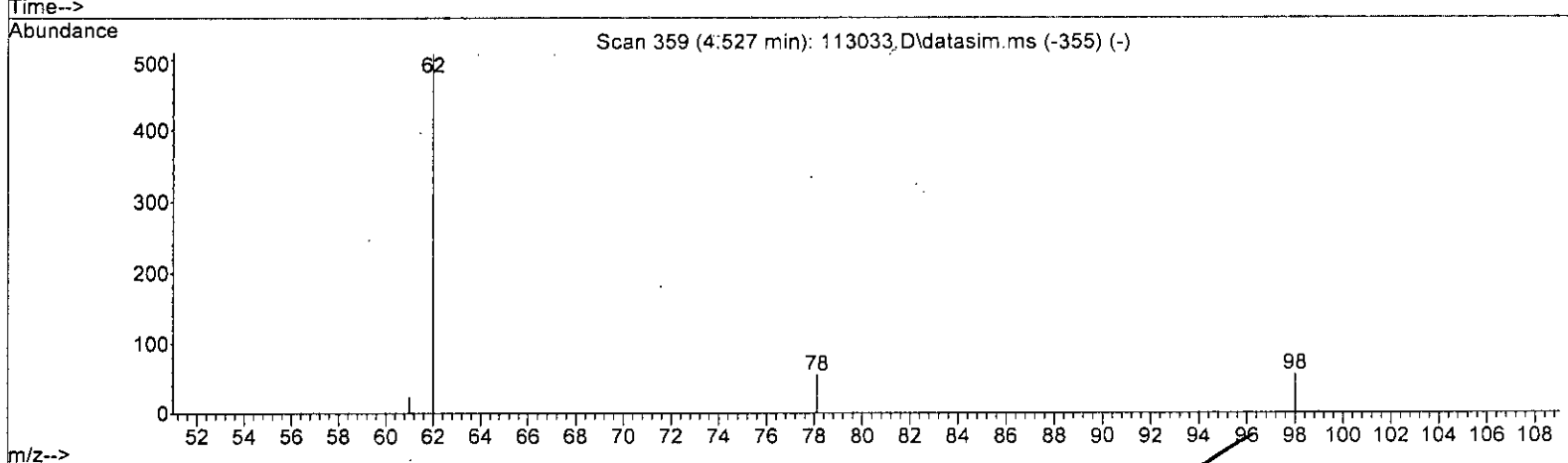
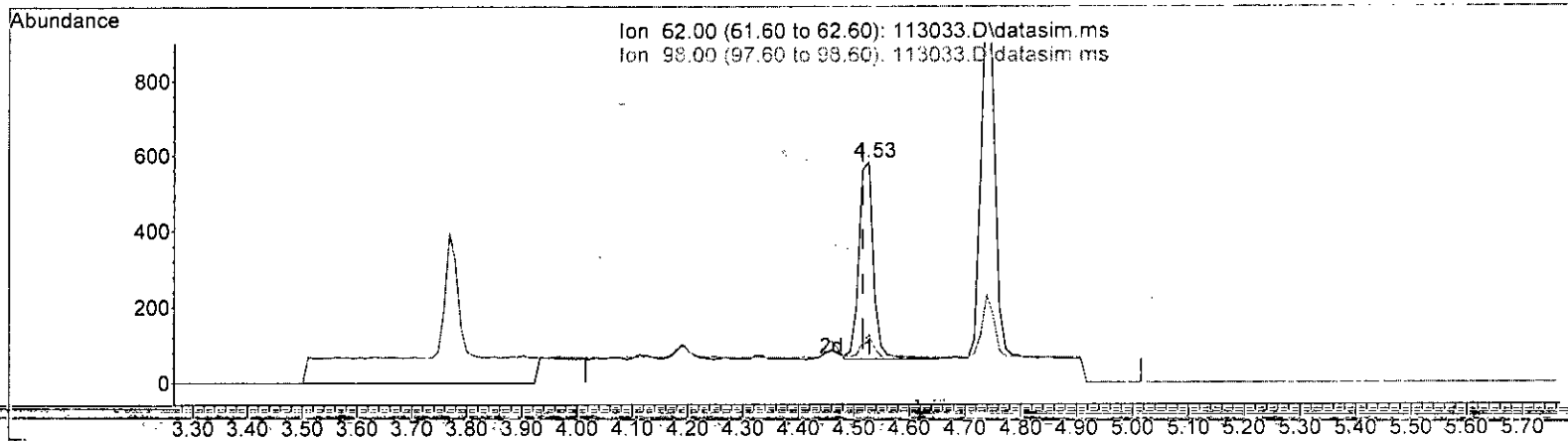
M 12.1

(17) trans-1,2-Dichloroethene (TMP)		
Retention Time	Concentration	Response
2.924min (+ 0.010)	0.201 ppb m	750
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	96.32
98.00	62.70	69.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

(26) 1,2-Dichloroethane (EDC) (TMP)

4.527min (+ 0.011) 0.210 ppb

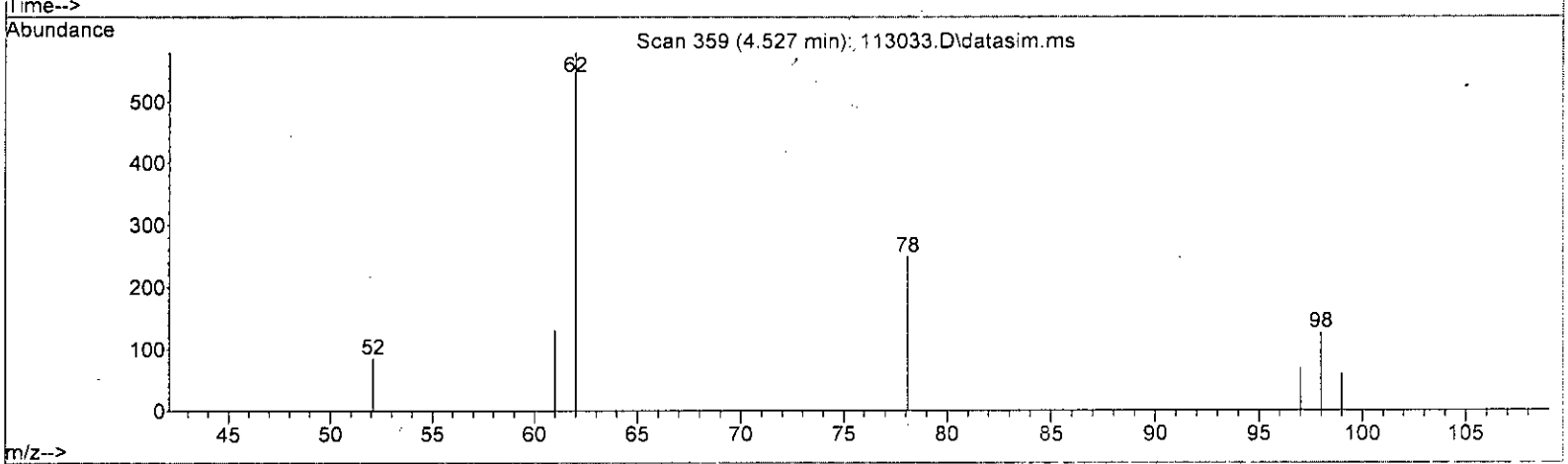
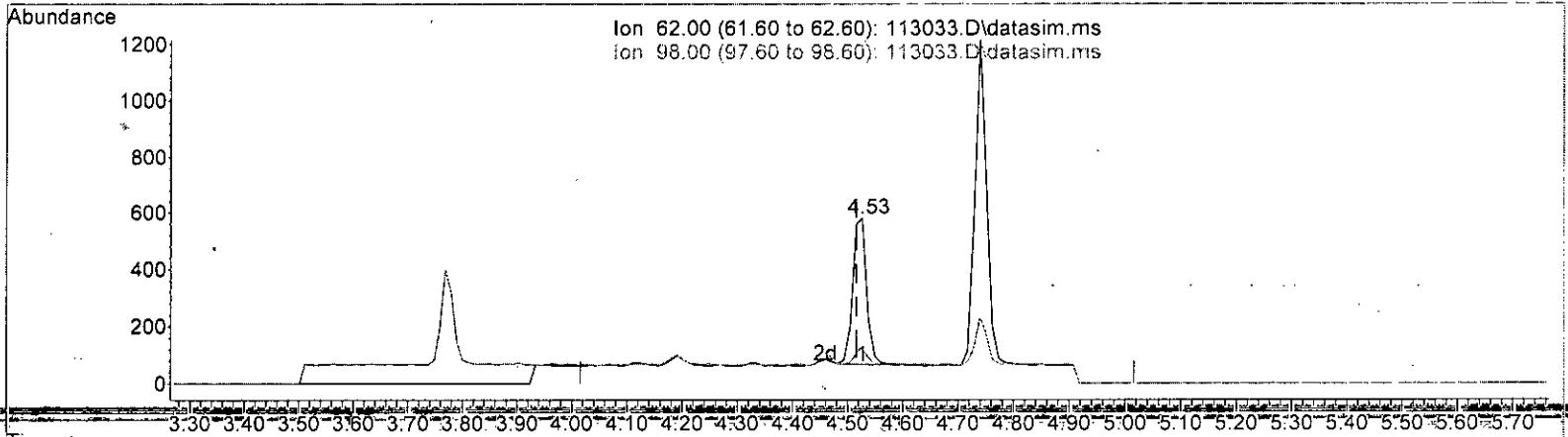
response	945	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	8.90	10.79
0.00	0.00	0.00
0.00	0.00	0.00

*MR.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113033.D\data.ms

*M 12.1*

(26) 1,2-Dichloroethane (EDC) (TMP)

4.527min (+ 0.011) 0.199 ppb m

response	901
Ion	Exp% Act%
62.00	100.00 100.00
98.00	8.90 21.51
0.00	0.00 0.00
0.00	0.00 0.00

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.75	96	135773	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	114155	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	70028	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	42915	9.922	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.20%		
30) 1,2-Dichloroethane-d4	4.45	102	7934	9.787	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery	=	97.90%		
35) Toluene-d8	6.11	98	118723	9.728	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery	=	97.30%		
57) 4-Bromofluorobenzene	8.51	95	43122	10.162	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery	=	101.60%		
Target Compounds							
							Qvalue
2) Ethanol	2.38	45	46	No Calib			
4) Dichlorodifluoromethane	1.12	85	1626	0.206	ppb		86
5) Chloromethane	0.00		0	N.D.	d		
6) Vinyl chloride	1.34	62	961m	0.190	ppb		
7) Bromomethane	0.00		0	N.D.			
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	2.38	45	46	No Calib.			
11) Acetone	0.00		0	N.D.	d		
12) 1,1-Dichloroethene	2.27	96	667m	0.198	ppb		
13) Hexane	3.16	57	975	Below Cal			89
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16) Methyl t-butyl ether (...)	2.93	73	1652m	0.204	ppb		
17) trans-1,2-Dichloroethene	2.92	96	750m	0.201	ppb		
18) Diisopropyl ether (DIPE)	3.35	45	1508	0.208	ppb		89
19) 1,1-Dichloroethane	3.27	63	925	0.200	ppb		94
20) Ethyl t-butyl ether (E...)	3.66	87	796	0.204	ppb	#	81
21) 2,2-Dichloropropane	3.77	77	1489	0.152	ppb		70
22) cis-1,2-Dichloroethene	3.77	96	802	0.199	ppb		92
23) Chloroform	4.04	83	1336	0.223	ppb		88
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.61	73	1507	0.202	ppb		87
26) 1,2-Dichloroethane (EDC)	4.53	62	901m	0.199	ppb		
27) 1,1,1-Trichloroethane	4.19	97	1238	0.195	ppb		98
28) 1,1-Dichloropropene	4.33	75	1092	0.251	ppb		75
29) Carbon tetrachloride	4.33	117	1402	0.208	ppb		86
31) Benzene	4.50	78	2255	0.196	ppb		96
32) Trichloroethene	5.05	95	821	0.199	ppb		93
33) 1,2-Dichloropropane	5.24	63	657	0.111	ppb	#	81
34) Bromodichloromethane	5.48	83	885	0.206	ppb		88
36) Dibromomethane	5.34	93	428	0.183	ppb		84

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

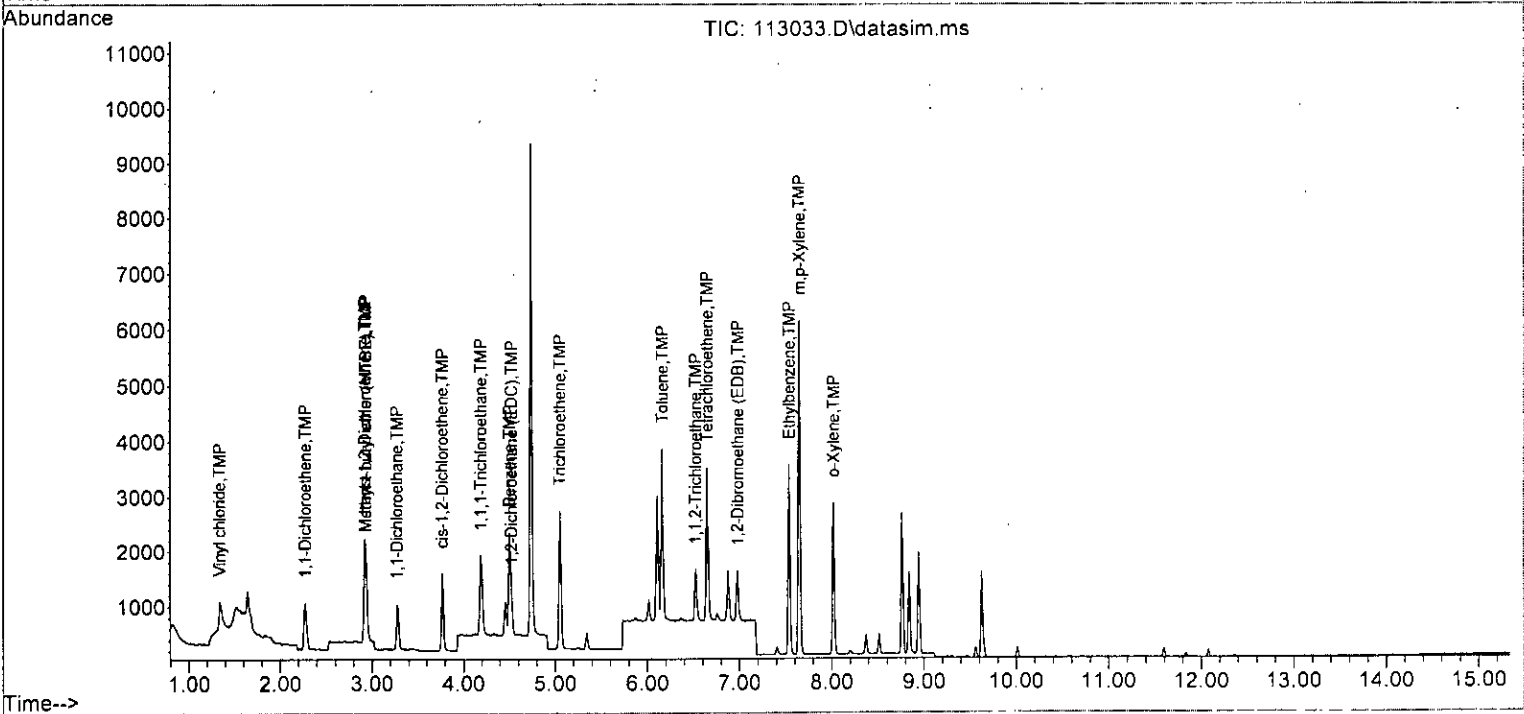
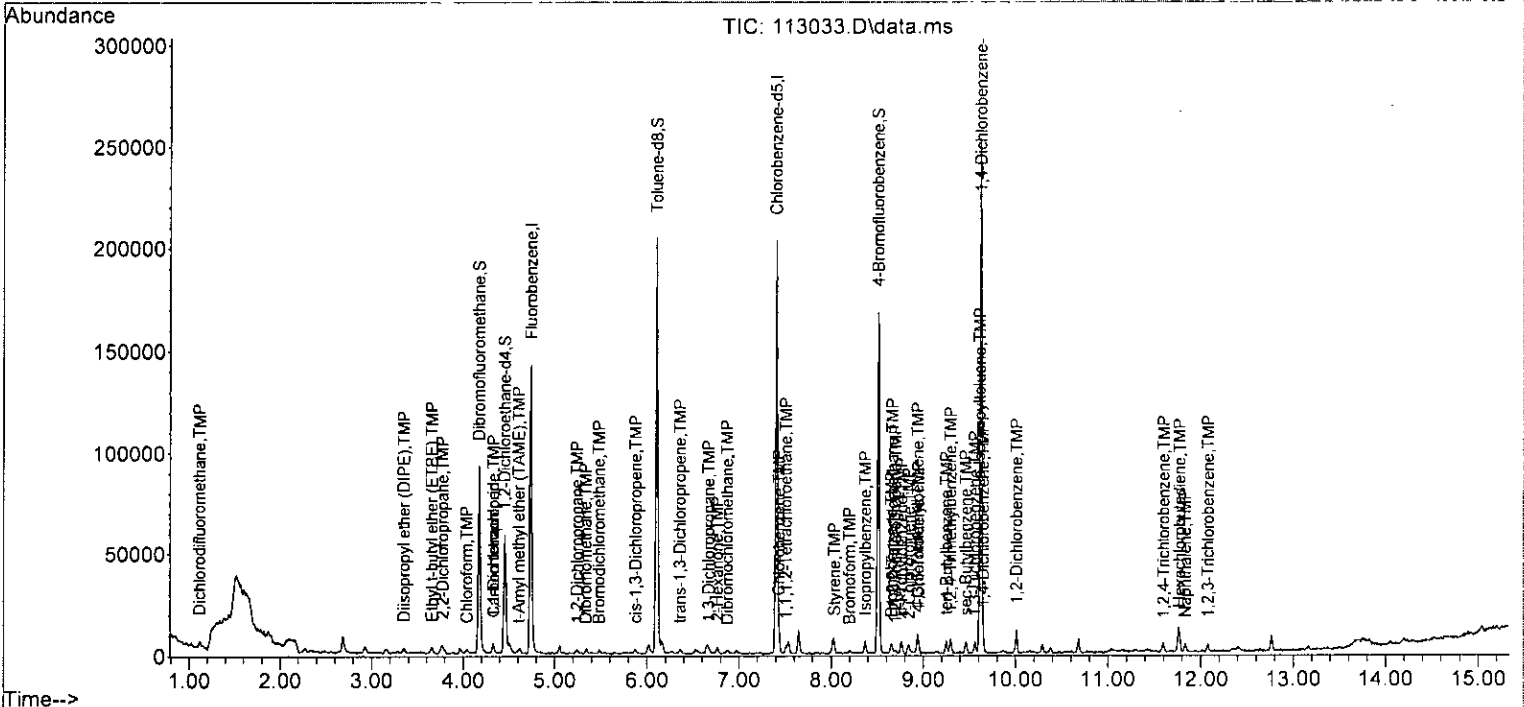
Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38) cis-1,3-Dichloropropene	5.88	75	833	0.187	ppb	81
40] Toluene	6.16	92	1735	0.212	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	1037	0.255	ppb	80
42] 1,1,2-Trichloroethane	6.53	83	474	0.204	ppb	99
43) 2-Hexanone	6.76	43	2135	1.321	ppb	86
44) 1,3-Dichloropropane	6.67	76	769	0.199	ppb	48
45] Tetrachloroethene	6.65	164	1046	0.204	ppb	97
46) Dibromochloromethane	6.87	129	905	0.186	ppb	76
47] 1,2-Dibromoethane (EDB)	6.98	107	745	0.195	ppb	88
48) Chlorobenzene	7.43	112	2216	0.206	ppb	96
49] Ethylbenzene	7.54	91	3470	0.196	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	1016	0.216	ppb	88
51] m,p-Xylene	7.65	106	3208	0.396	ppb	99
52] o-Xylene	8.02	106	1400	0.202	ppb	100
53) Styrene	8.03	104	2123	0.219	ppb	79
54) Isopropylbenzene	8.37	105	3170	0.205	ppb	63
55) Bromoform	8.20	173	620	0.180	ppb	89
58) n-Propylbenzene	8.77	91	3604	0.228	ppb	98
59) Bromobenzene	8.65	156	1224	0.213	ppb	83
60) 1,3,5-Trimethylbenzene	8.94	105	2794	0.217	ppb	91
61) 1,1,2,2-Tetrachloroethane	8.66	83	616	0.191	ppb	# 47
62) 1,2,3-Trichloropropane	8.70	75	480	0.203	ppb	83
63) 2-Chlorotoluene	8.84	91	1822	0.203	ppb	96
64) 4-Chlorotoluene	8.95	91	2451	0.226	ppb	96
65) tert-Butylbenzene	9.25	119	3193	0.234	ppb	82
66) 1,2,4-Trimethylbenzene	9.30	105	3402	0.246	ppb	100
67) sec-Butylbenzene	9.46	105	3338	0.199	ppb	99
68) p-Isopropyltoluene	9.61	119	3387	0.202	ppb	95
69) 1,3-Dichlorobenzene	9.56	146	2211	0.214	ppb	98
70) 1,4-Dichlorobenzene	9.65	146	2195	0.215	ppb	92
71) 1,2-Dichlorobenzene	10.01	146	2257	0.227	ppb	88
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.60	180	1444	0.207	ppb	84
74) Hexachlorobutadiene	11.77	225	969	0.235	ppb	66
75) Naphthalene	11.83	128	2757	0.203	ppb	83
76) 1,2,3-Trichlorobenzene	12.08	180	1065	0.193	ppb	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP	Ethanol	-1.000	0.000	0.0	100	0.05
3 S	Dibromofluoromethane	10.000	9.922	0.8	100	0.00
4 TMP	Dichlorodifluoromethane	0.200	0.206	-3.0	100	0.00
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.200	0.190	5.0	105	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.64#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.83#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.05
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.200	0.198	1.0	104	0.01
13 TMP	Hexane	-1.000	-0.311	0.0	0	0.00
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.200	0.204	-2.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.200	0.201	-0.5	96	0.01
18 TMP	Diisopropyl ether (DIPE)	0.200	0.208	-4.0	100	0.00
19 TMP	1,1-Dichloroethane	0.200	0.200	0.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.200	0.204	-2.0	100	0.00
21 TMP	2,2-Dichloropropane	0.200	0.152	24.0#	100	0.01
22 TMP	cis-1,2-Dichloroethene	0.200	0.199	0.5	100	0.00
23 TMP	Chloroform	0.200	0.223	-11.5	100	0.00
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.200	0.202	-1.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.200	0.199	0.5	95	0.01
27 TMP	1,1,1-Trichloroethane	0.200	0.195	2.5	100	0.00
28 TMP	1,1-Dichloropropene	0.200	0.251	-25.5#	100	0.00
29 TMP	Carbon tetrachloride	0.200	0.208	-4.0	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.787	2.1	100	0.00
31 TMP	Benzene	0.200	0.196	2.0	100	0.00
32 TMP	Trichloroethene	0.200	0.199	0.5	100	0.00
33 TMP	1,2-Dichloropropane	0.200	0.111	44.5#	100	0.00
34 TMP	Bromodichloromethane	0.200	0.206	-3.0	100	0.00
35 S	Toluene-d8	10.000	9.728	2.7	100	0.00
36 TMP	Dibromomethane	0.200	0.183	8.5	100	0.00
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.200	0.187	6.5	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.200	0.212	-6.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.200	0.255	-27.5#	100	0.00
42 TMP	1,1,2-Trichloroethane	0.200	0.204	-2.0	100	0.00
43 TMP	2-Hexanone	-1.000	1.321	0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.200	0.199	0.5	100	0.00
45 TMP Tetrachloroethene	0.200	0.204	-2.0	100	0.00
46 TMP Dibromochloromethane	0.200	0.186	7.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.200	0.195	2.5	100	0.01
48 TMP Chlorobenzene	0.200	0.206	-3.0	100	0.00
49 TMP Ethylbenzene	0.200	0.196	2.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.200	0.216	-8.0	100	0.00
51 TMP m,p-Xylene	0.400	0.396	1.0	100	0.00
52 TMP o-Xylene	0.200	0.202	-1.0	100	0.00
53 TMP Styrene	0.200	0.219	-9.5	100	0.00
54 TMP Isopropylbenzene	0.200	0.205	-2.5	100	0.00
55 TMP Bromoform	0.200	0.180	10.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.162	-1.6	100	0.00
58 TMP n-Propylbenzene	0.200	0.228	-14.0	100	0.00
59 TMP Bromobenzene	0.200	0.213	-6.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.200	0.217	-8.5	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.200	0.191	4.5	100	0.00
62 TMP 1,2,3-Trichloropropane	0.200	0.203	-1.5	100	0.00
63 TMP 2-Chlorotoluene	0.200	0.203	-1.5	100	0.00
64 TMP 4-Chlorotoluene	0.200	0.226	-13.0	100	0.00
65 TMP tert-Butylbenzene	0.200	0.234	-17.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.200	0.246	-23.0#	100	0.00
67 TMP sec-Butylbenzene	0.200	0.199	0.5	100	0.00
68 TMP p-Isopropyltoluene	0.200	0.202	-1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	0.200	0.214	-7.0	100	0.00
70 TMP 1,4-Dichlorobenzene	0.200	0.215	-7.5	100	0.00
71 TMP 1,2-Dichlorobenzene	0.200	0.227	-13.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.200	0.207	-3.5	100	0.00
74 TMP Hexachlorobutadiene	0.200	0.235	-17.5	100	0.00
75 TMP Naphthalene	0.200	0.203	-1.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.200	0.193	3.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP	Ethanol	0.000	0.000#	0.0	100	0.05
3 S	Dibromofluoromethane	0.319	0.316	0.9	100	0.00
4 TMP	Dichlorodifluoromethane	0.582	0.599	-2.9	100	0.00
5 TMP	Chloromethane	0.386	0.000#	100.0#	0#	-1.25#
6 TMP	Vinyl chloride	0.373	0.354	5.1	105	0.00
7 TMP	Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP	Chloroethane	0.200	0.000#	100.0#	0#	-1.64#
9 TMP	Trichlorofluoromethane	1.015	0.000#	100.0#	0#	-1.83#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.05
11 TMP	Acetone	0.022	0.000#	100.0#	0#	-2.32#
12 TMP	1,1-Dichloroethene	0.248	0.246	0.8	104	0.01
13 TMP	Hexane	0.244	0.000#	100.0#	0#	0.00
14 TMP	Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP	t-Butyl alcohol (TBA)	0.022	0.000#	100.0#	0#	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.596	0.608	-2.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.274	0.276	-0.7	96	0.01
18 TMP	Diisopropyl ether (DIPE)	0.533	0.555	-4.1	100	0.00
19 TMP	1,1-Dichloroethane	0.341	0.341	0.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.287	0.293	-2.1	100	0.00
21 TMP	2,2-Dichloropropane	0.297	0.548	-84.5#	100	0.01
22 TMP	cis-1,2-Dichloroethene	0.296	0.295	0.3	100	0.00
23 TMP	Chloroform	0.441	0.492	-11.6	100	0.00
24 TMP	2-Butanone (MEK)	0.102	0.000#	100.0#	0#	-3.78#
25 TMP	t-Amyl methyl ether (TAME)	0.551	0.555	-0.7	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.334	0.332	0.6	95	0.01
27 TMP	1,1,1-Trichloroethane	0.468	0.456	2.6	100	0.00
28 TMP	1,1-Dichloropropene	0.320	0.402	-25.6#	100	0.00
29 TMP	Carbon tetrachloride	0.497	0.516	-3.8	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP	Benzene	0.849	0.830	2.2	100	0.00
32 TMP	Trichloroethene	0.304	0.302	0.7	100	0.00
33 TMP	1,2-Dichloropropane	0.189	0.242	-28.0#	100	0.00
34 TMP	Bromodichloromethane	0.316	0.326	-3.2	100	0.00
35 S	Toluene-d8	0.899	0.874	2.8	100	0.00
36 TMP	Dibromomethane	0.173	0.158	8.7	100	0.00
37 TMP	4-Methyl-2-pentanone	0.040	0.000#	100.0#	0#	-6.01#
38 TMP	cis-1,3-Dichloropropene	0.329	0.307	6.7	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.719	0.760	-5.7	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.356	0.454	-27.5#	100	0.00
42 TMP	1,1,2-Trichloroethane	0.204	0.208	-2.0	100	0.00
43 TMP	2-Hexanone	0.142	0.000#	100.0#	0#	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113033.D  
 Acq On : 30 Nov 2022 11:52 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 11:54:04 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.337	0.3	100	0.00
45 TMP Tetrachloroethene	0.443	0.458	-3.4	100	0.00
46 TMP Dibromochloromethane	0.425	0.396	6.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.326	2.7	100	0.01
48 TMP Chlorobenzene	0.943	0.971	-3.0	100	0.00
49 TMP Ethylbenzene	1.560	1.520	2.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.445	-7.7	100	0.00
51 TMP m,p-Xylene	0.718	0.703	2.1	100	0.00
52 TMP o-Xylene	0.611	0.613	-0.3	100	0.00
53 TMP Styrene	0.848	0.930	-9.7	100	0.00
54 TMP Isopropylbenzene	1.353	1.388	-2.6	100	0.00
55 TMP Bromoform	0.302	0.272	9.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.616	-1.7	100	0.00
58 TMP n-Propylbenzene	2.257	2.573	-14.0	100	0.00
59 TMP Bromobenzene	0.821	0.874	-6.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.995	-8.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.440#	-1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.343#	-1.8	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.301	-1.5	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.750	-12.8	100	0.00
65 TMP tert-Butylbenzene	1.946	2.280	-17.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.429	-23.0#	100	0.00
67 TMP sec-Butylbenzene	2.396	2.383	0.5	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.418	-0.8	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.579	-7.0	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.567	-7.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.611	-13.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.997	1.031	-3.4	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.692	-17.7	100	0.00
75 TMP Naphthalene	1.938	1.968	-1.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.760	3.7	100	0.00

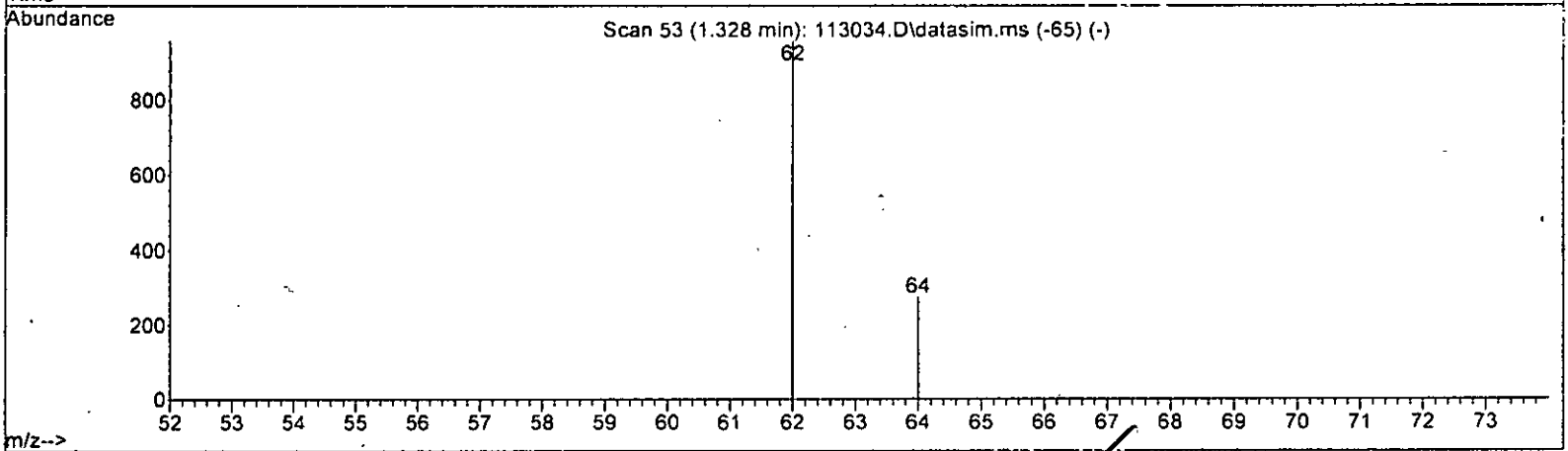
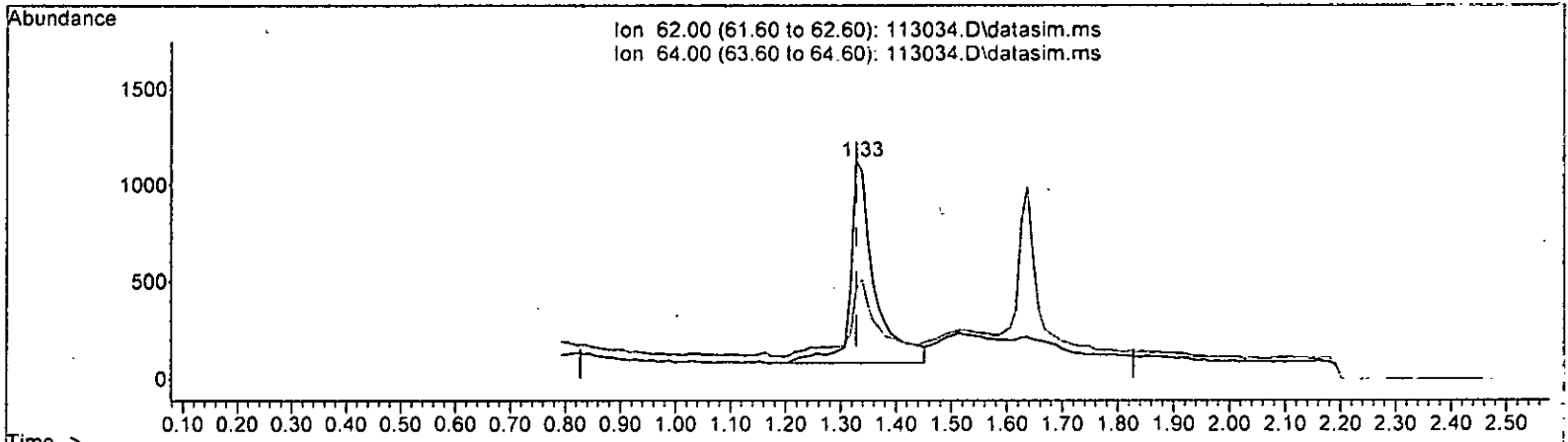
(#) = Out of Range

SPCC's out = 15 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

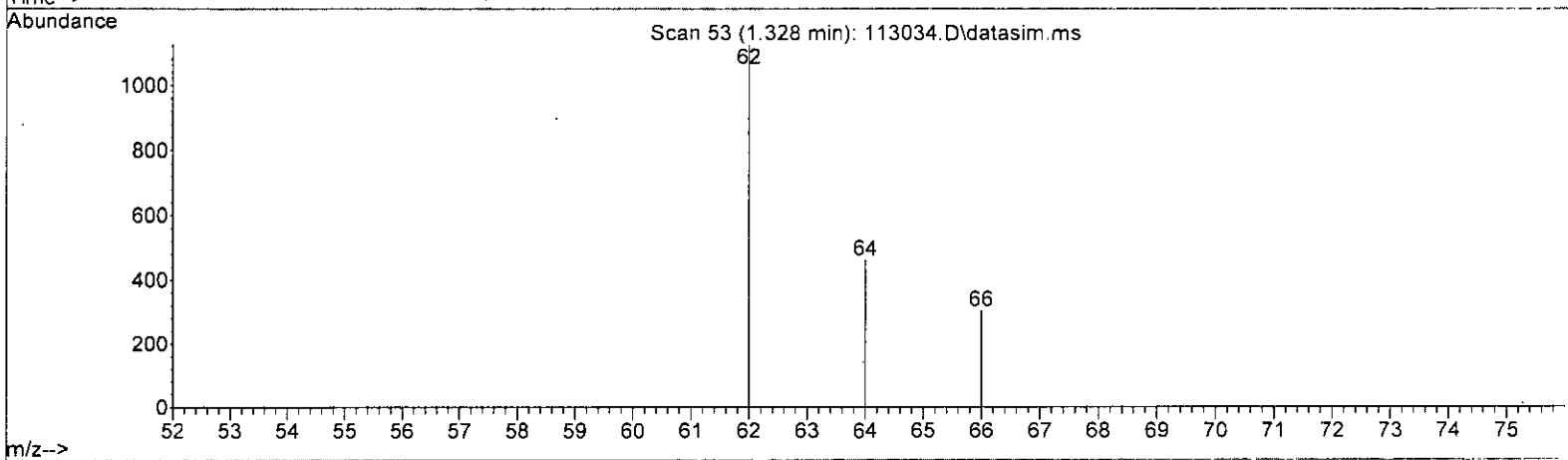
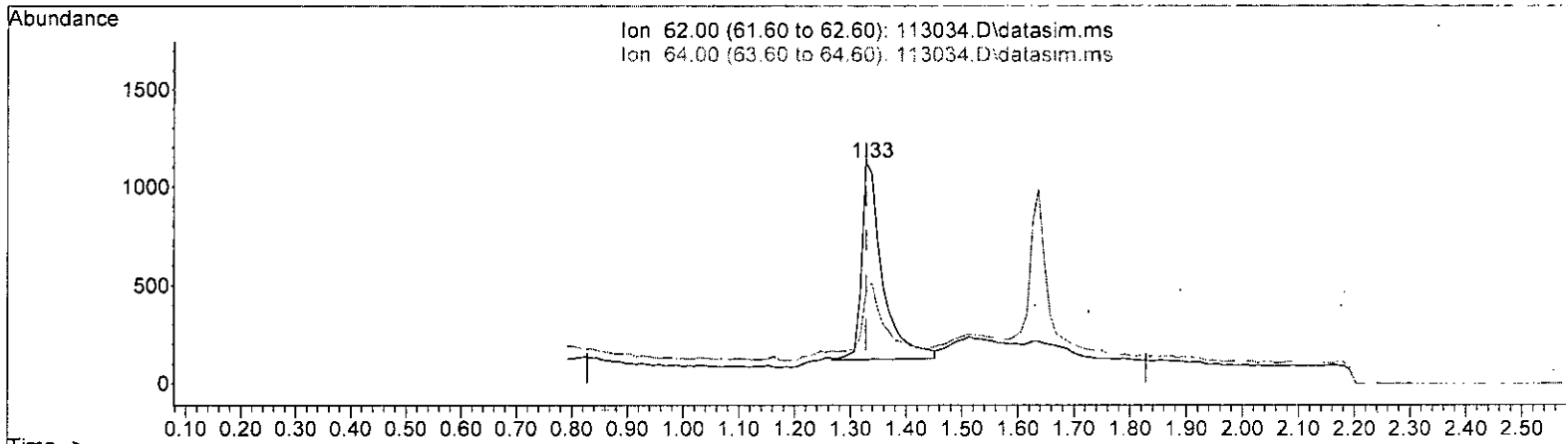
*M. 12.1*

(6) Vinyl chloride (TMP)		
1.328min (-0.000)	0.691 ppb	
response	3185	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	32.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(6) Vinyl chloride (TMP)

1.328min (-0.000) 0.564 ppb m

response 2598

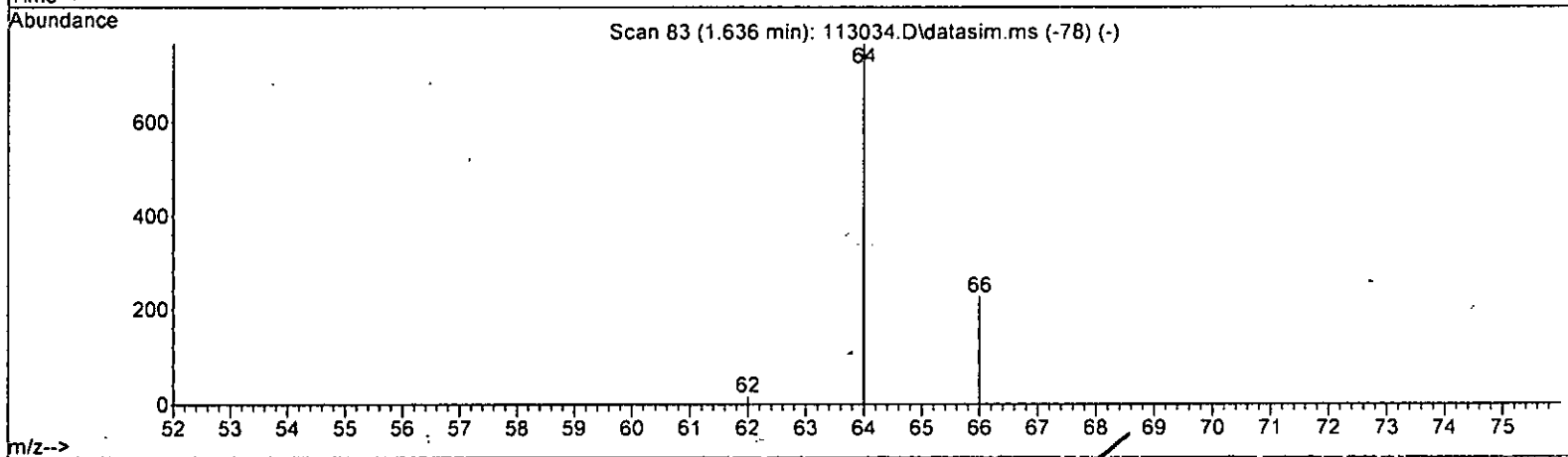
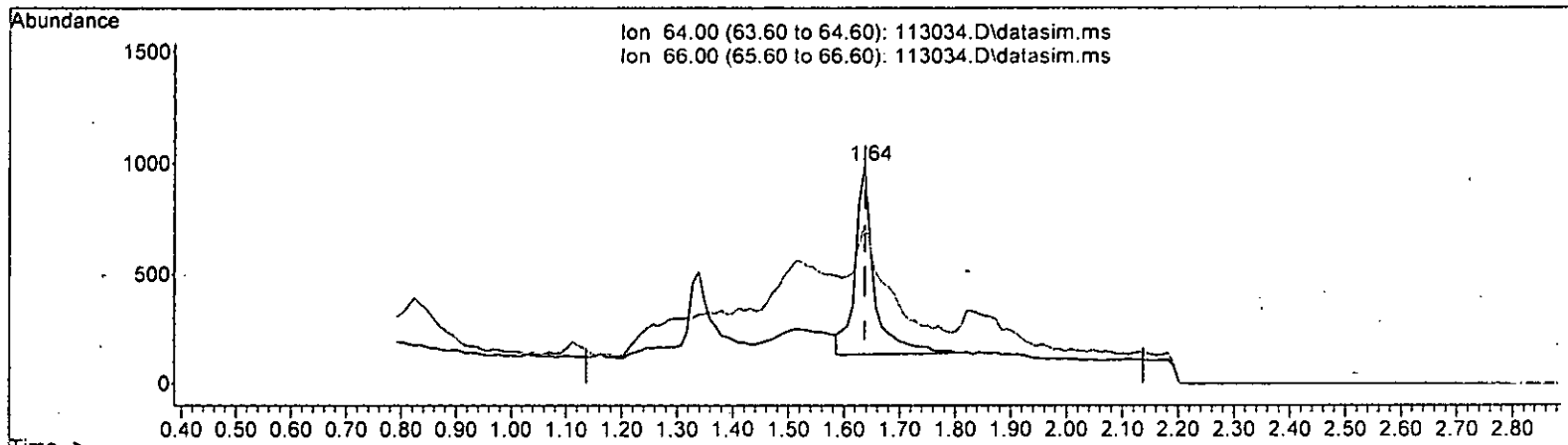
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	40.76
0.00	0.00	0.00
0.00	0.00	0.00

M 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(8) Chloroethane (TMP)

1.636min (-0.001) 0.829 ppb

response 2045

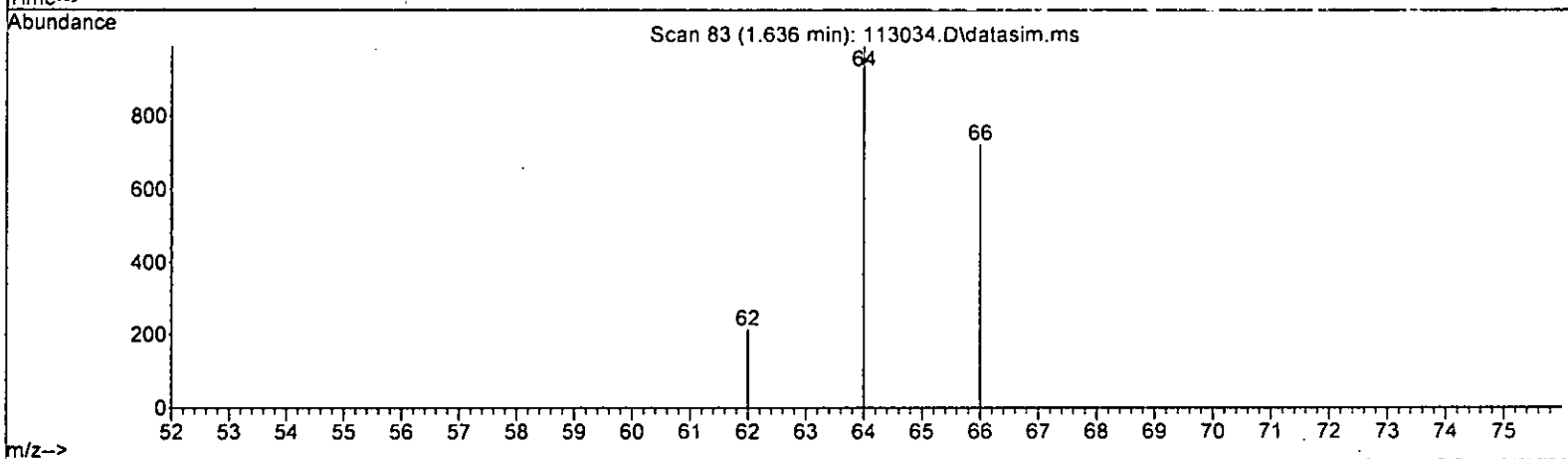
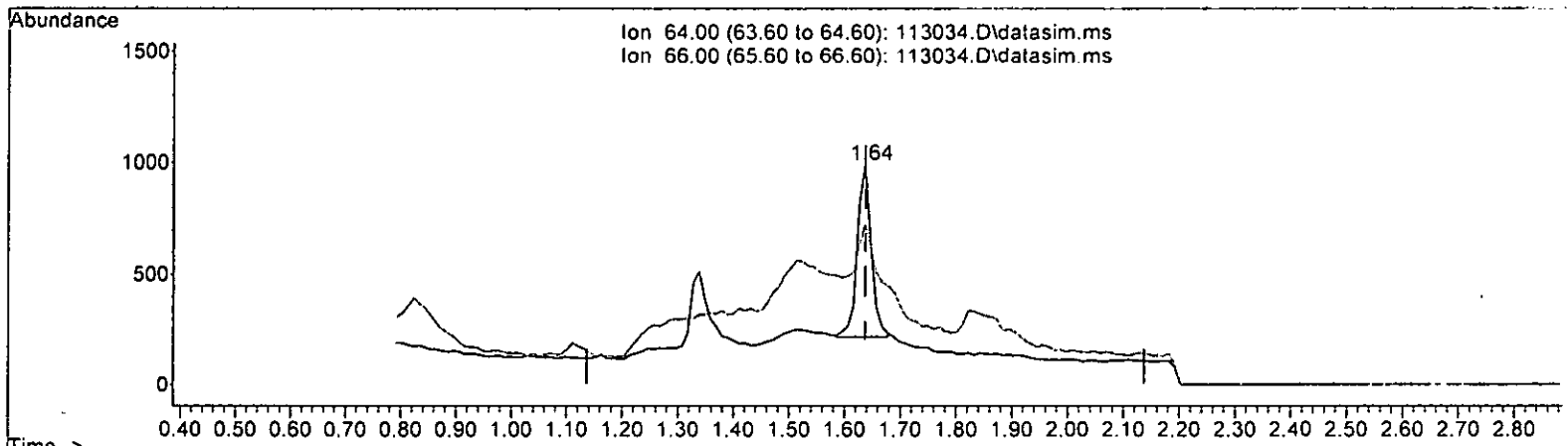
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	52.94
0.00	0.00	0.00
0.00	0.00	0.00

*m/z*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

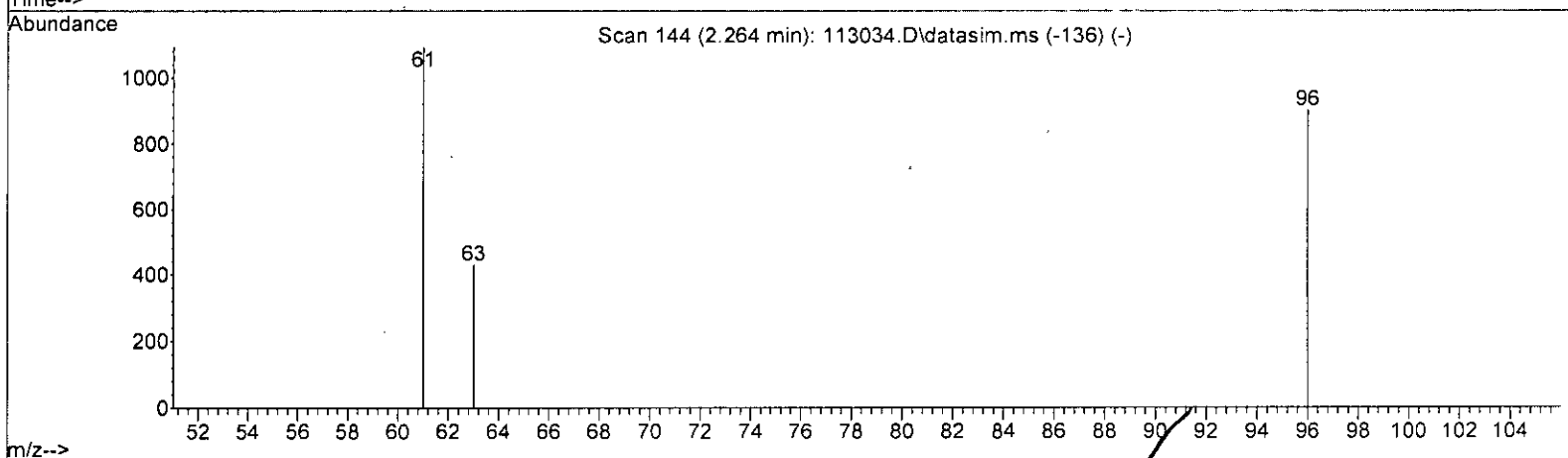
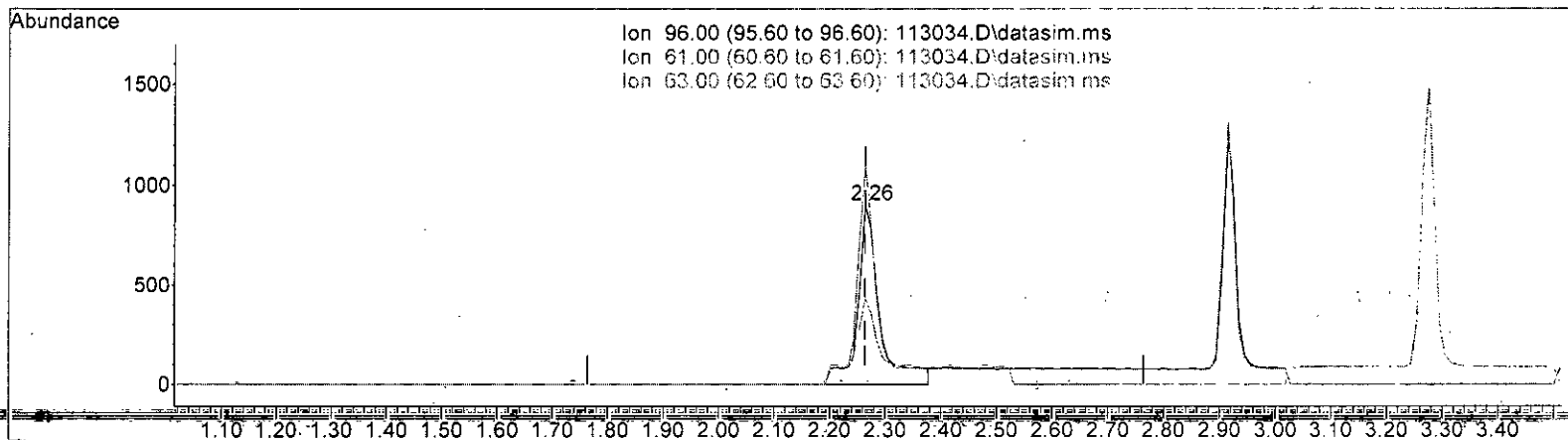
*m 12.1*

(8) Chloroethane (TMP)		
1.636min (-0.001)	0.548 ppb m	
response	1353	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	72.87#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.264min (+ 0.000) 0.812 ppb

response 2486

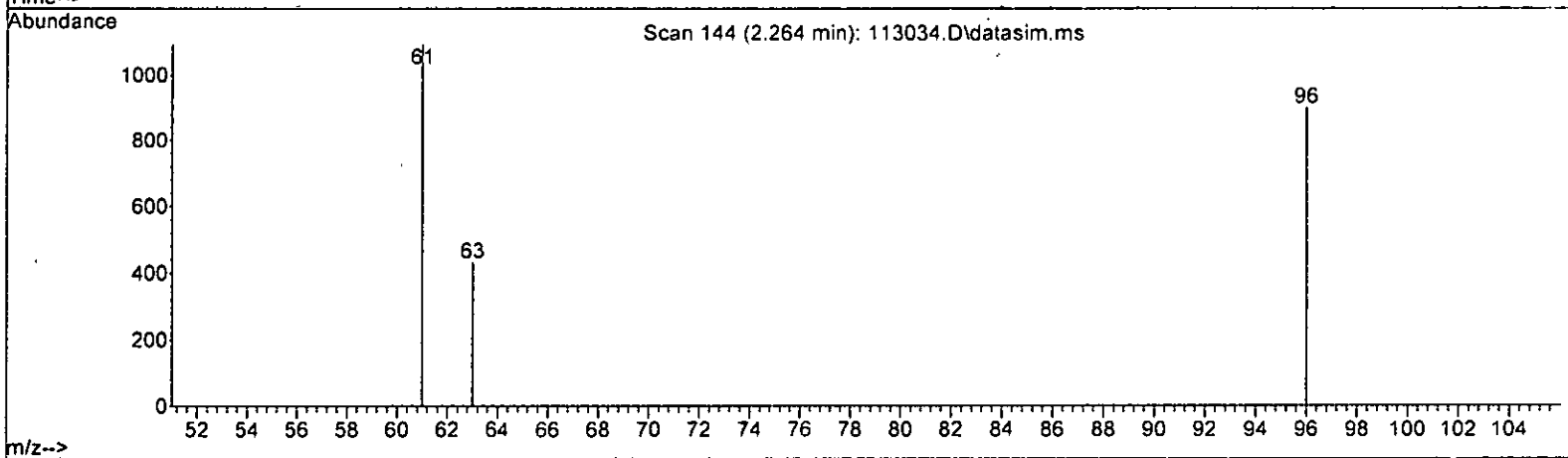
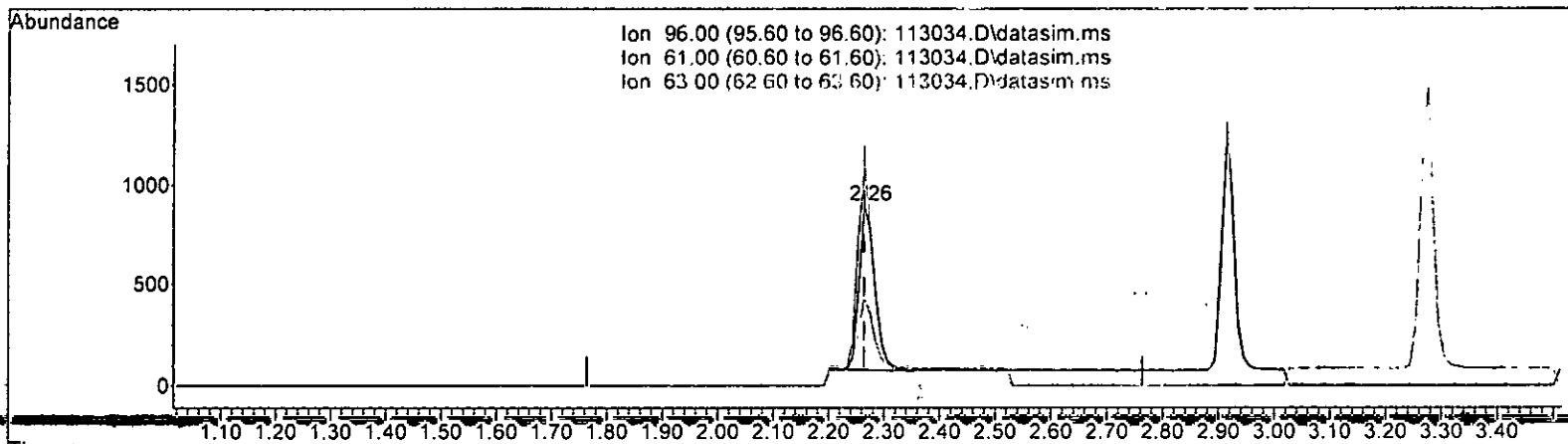
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	121.33
63.00	41.10	47.78
0.00	0.00	0.00

*m/z 121*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.264min (+ 0.000). 0.527 ppb m

response 1612

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	121.33
63.00	41.10	47.78
0.00	0.00	0.00

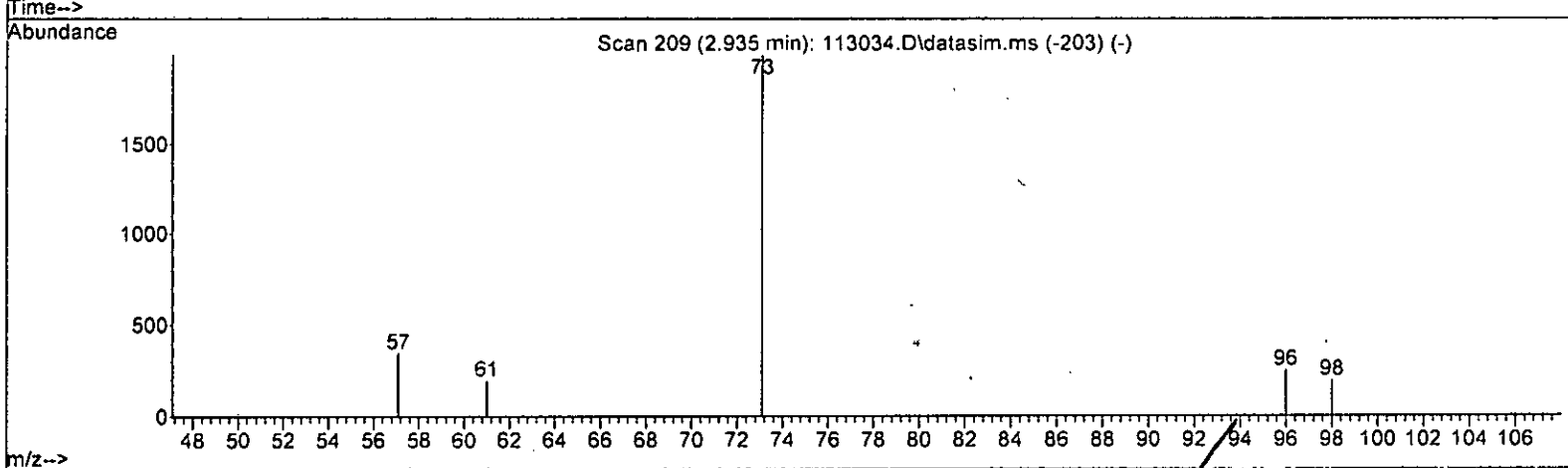
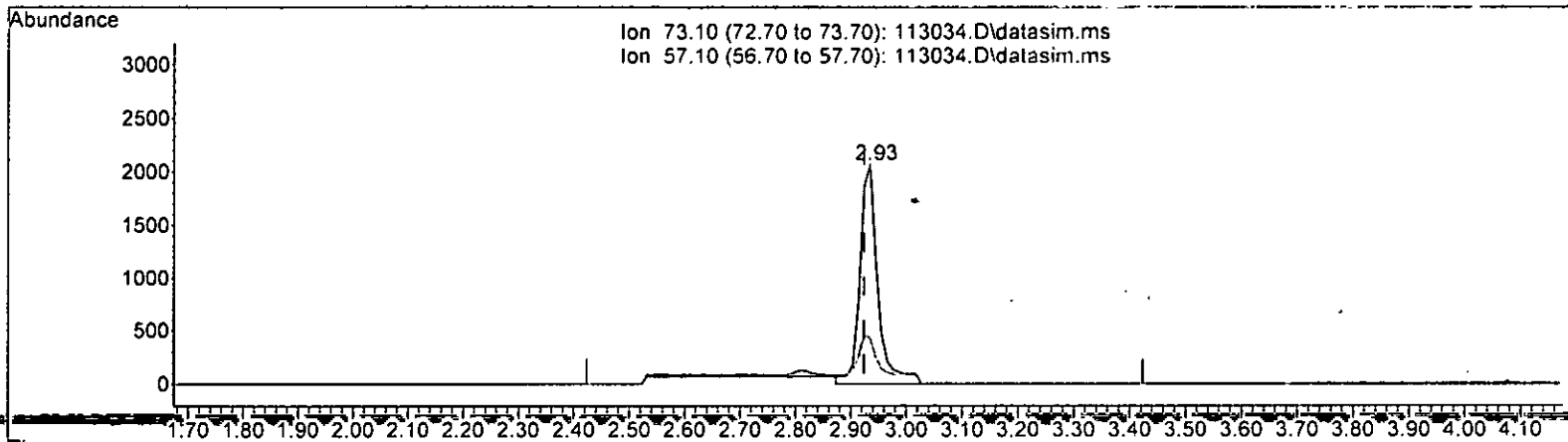
m 12.1



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.935min (+ 0.011) 0.621 ppb

response 4570

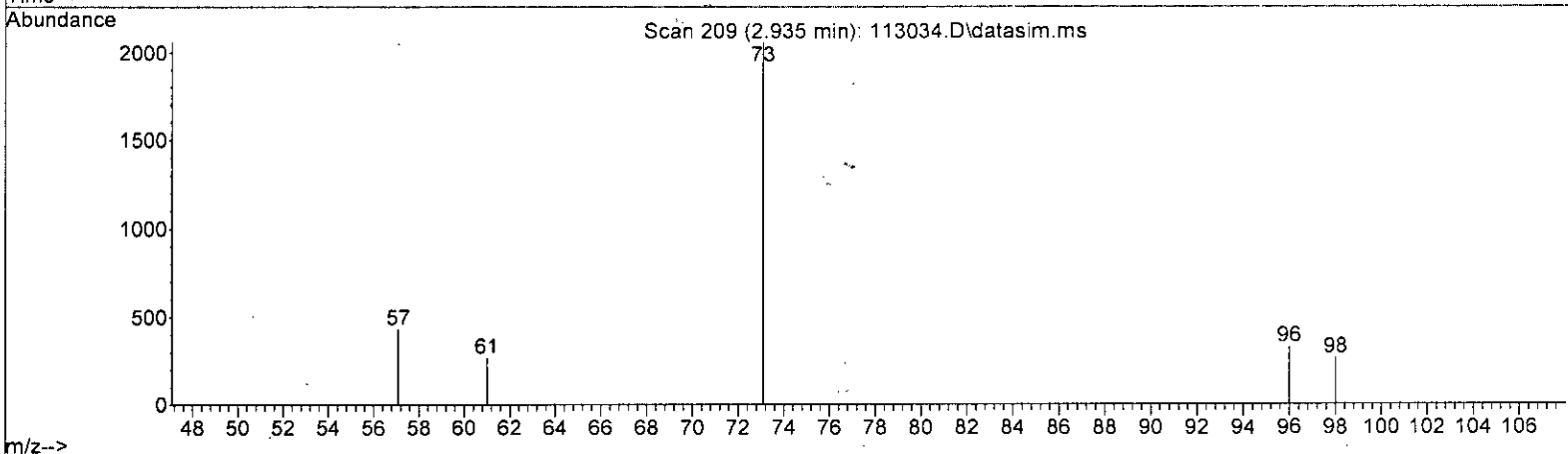
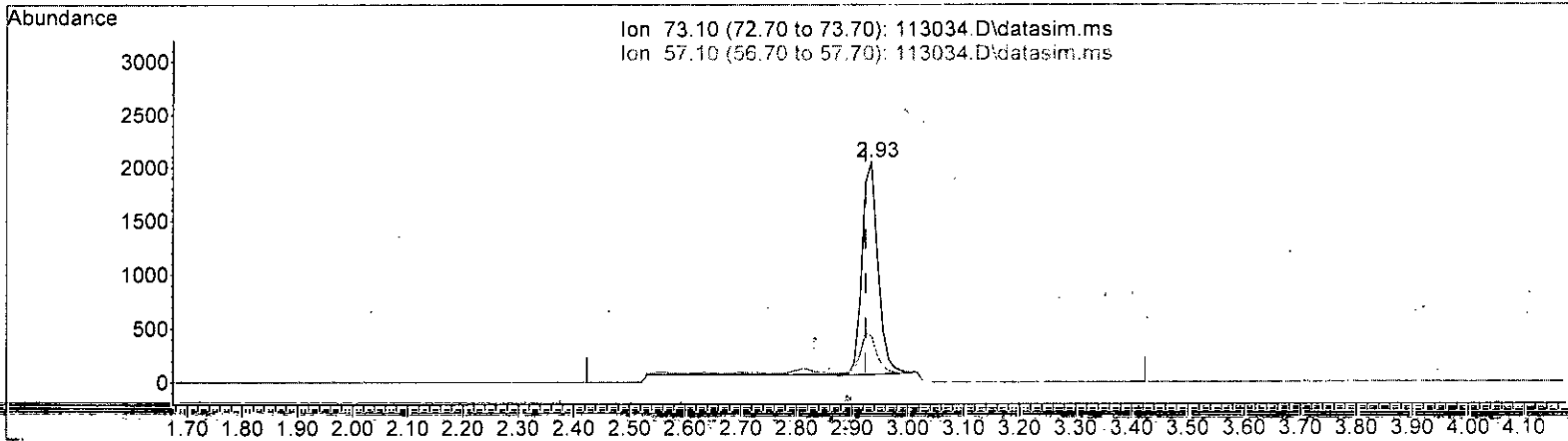
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	20.88
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.935min (+ 0.011) 0.535 ppb m

response 3934

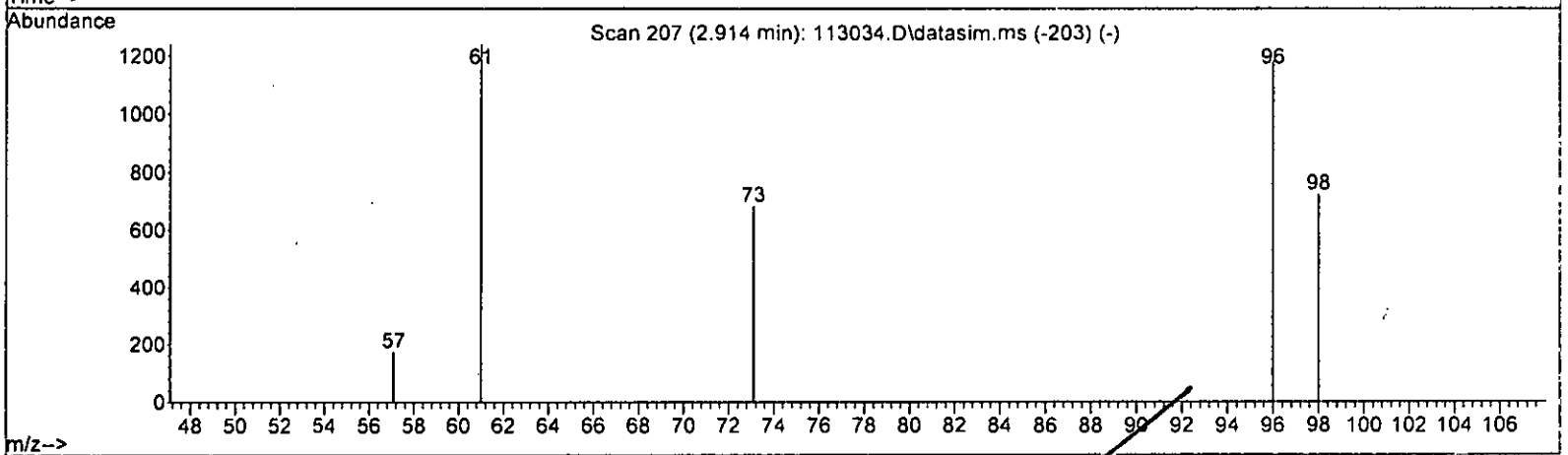
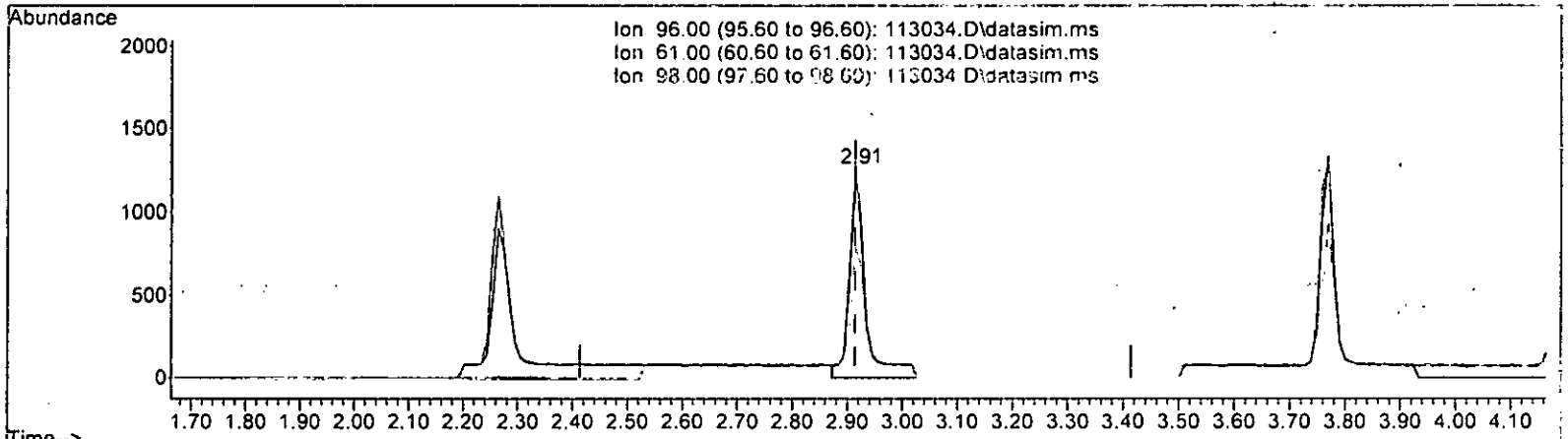
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	20.88
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.914min (-0.000) 0.730 ppb

response 2473

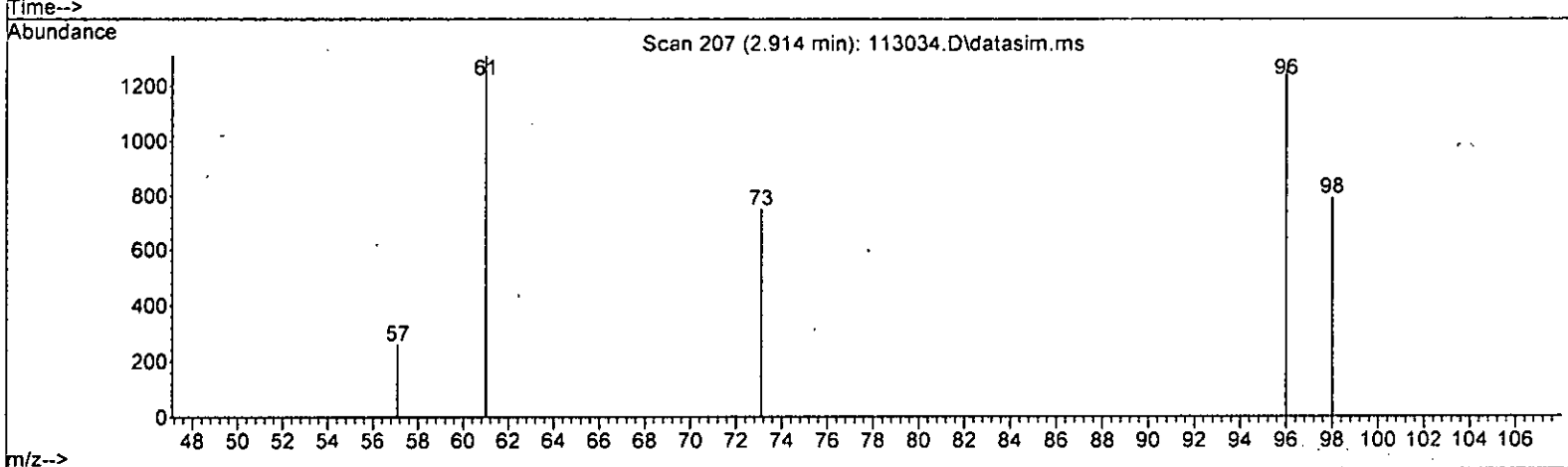
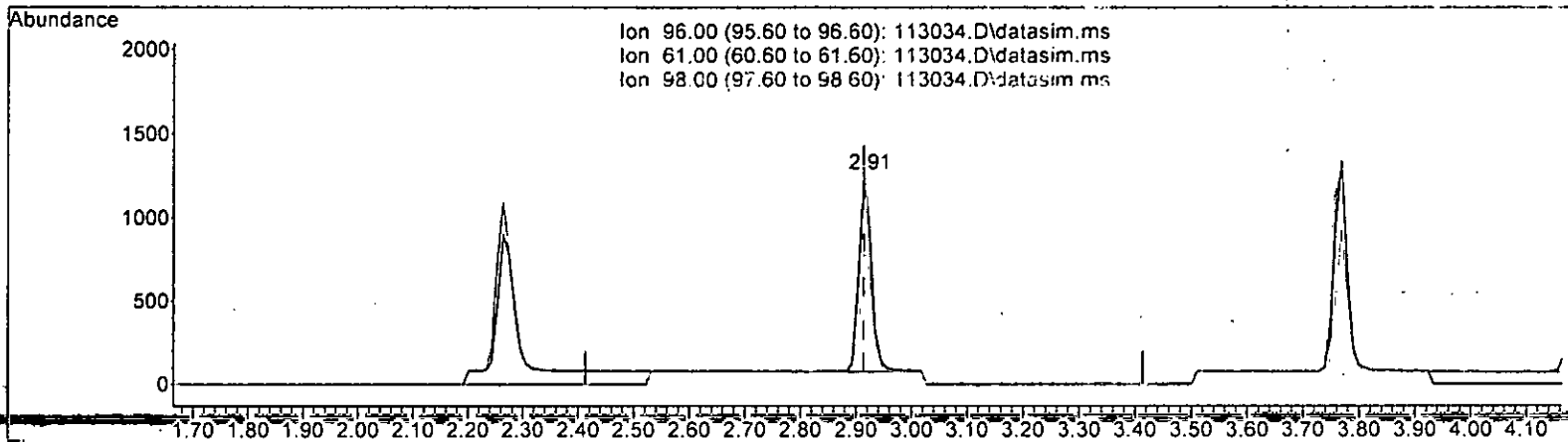
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	104.13
98.00	62.70	62.96
0.00	0.00	0.00

*W 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) M121

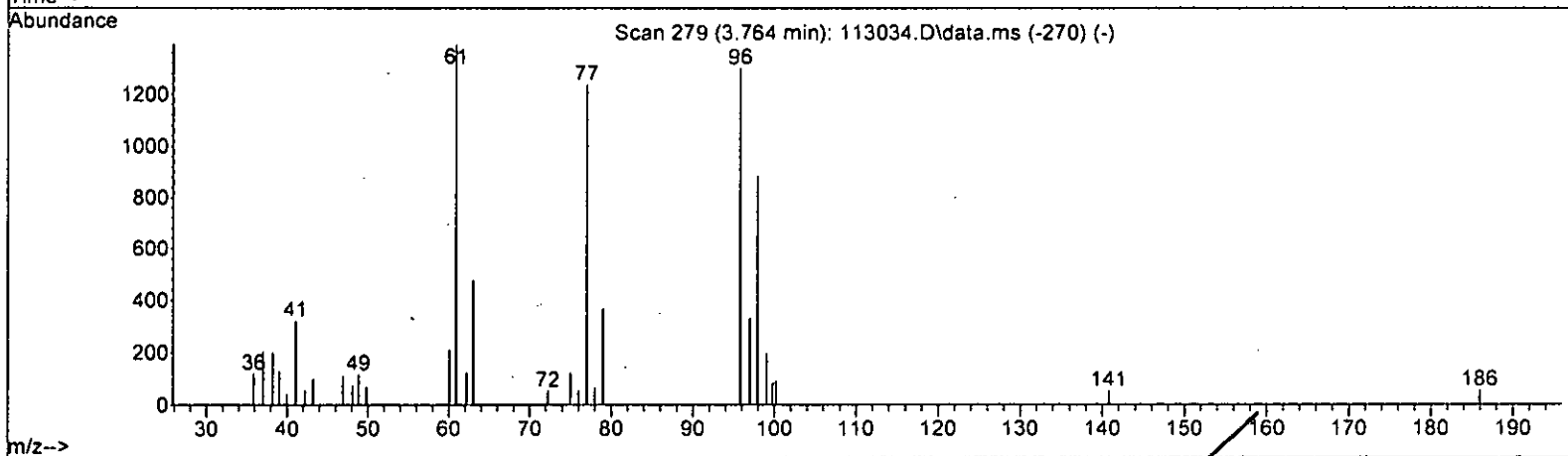
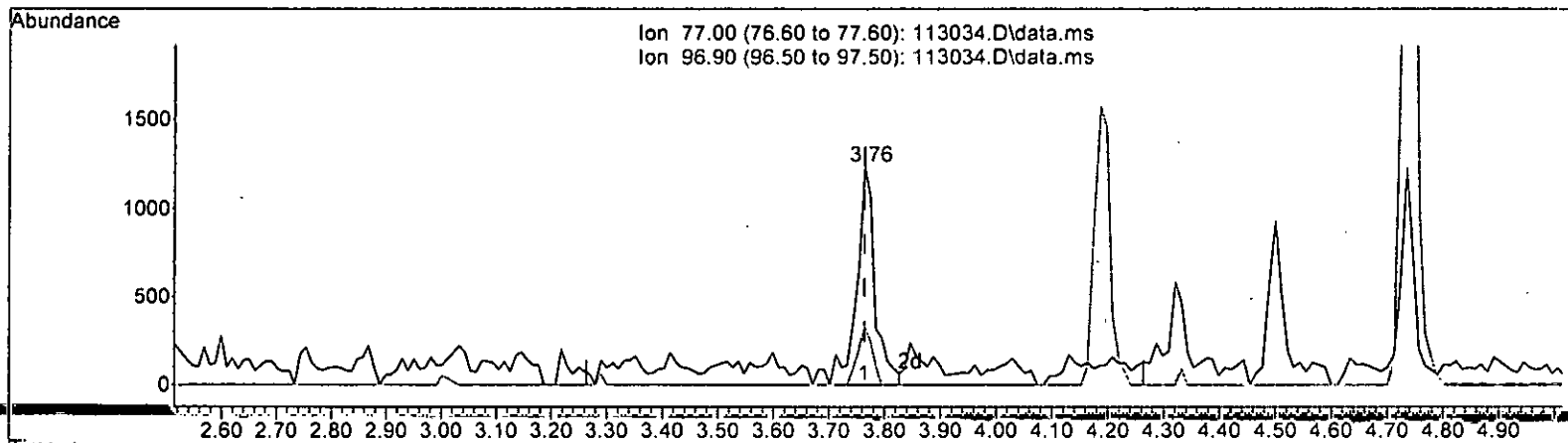
2.914min (-0.000) 0.538 ppb m

response	1822
Ion	Exp% Act%
96.00	100.00 100.00
61.00	107.00 104.13
98.00	62.70 62.96
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(21) 2,2-Dichloropropane (TMP)

3.764min (-0.000) 0.677 ppb

response 2896

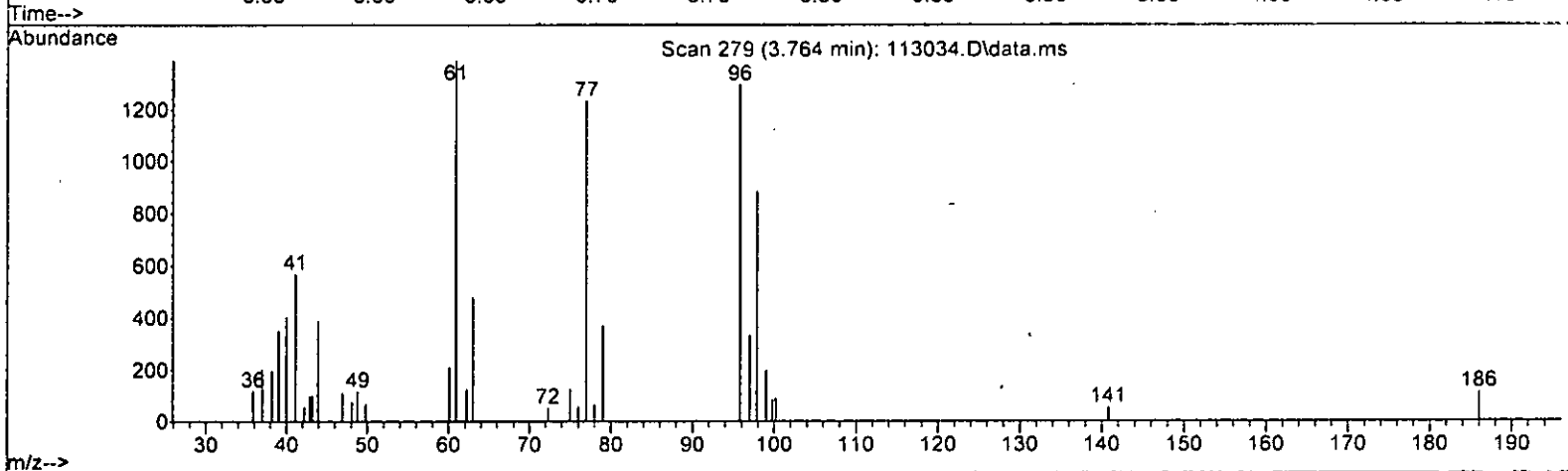
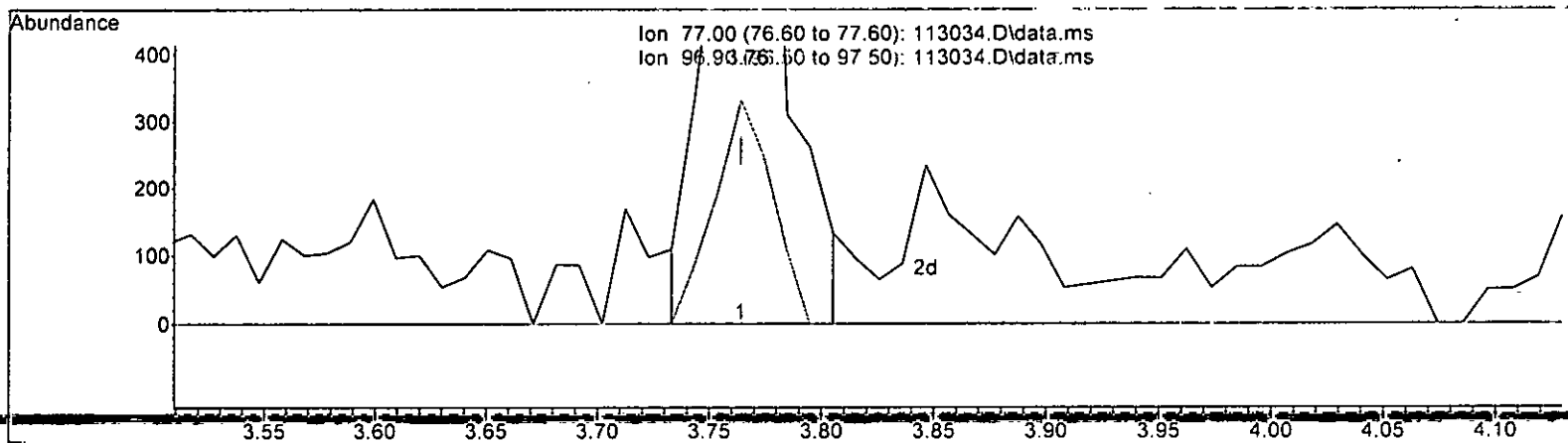
Ion	Exp%	Act%
77.00	100.00	100.00
96.90	32.00	26.90
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(21) 2,2-Dichloropropane (TMP) *W 12.1*

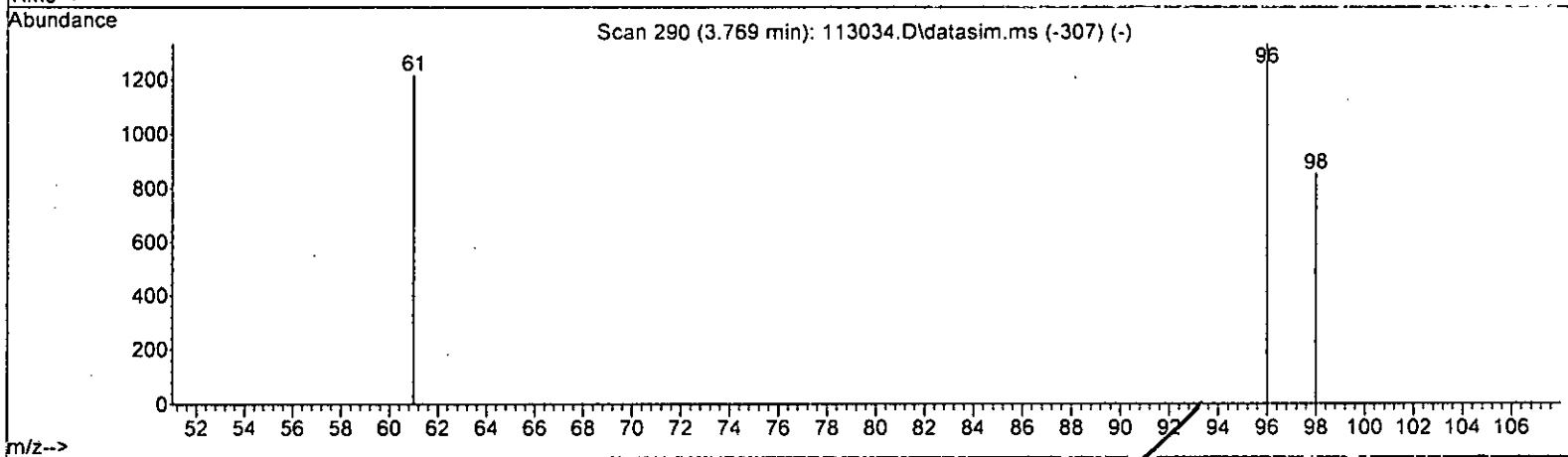
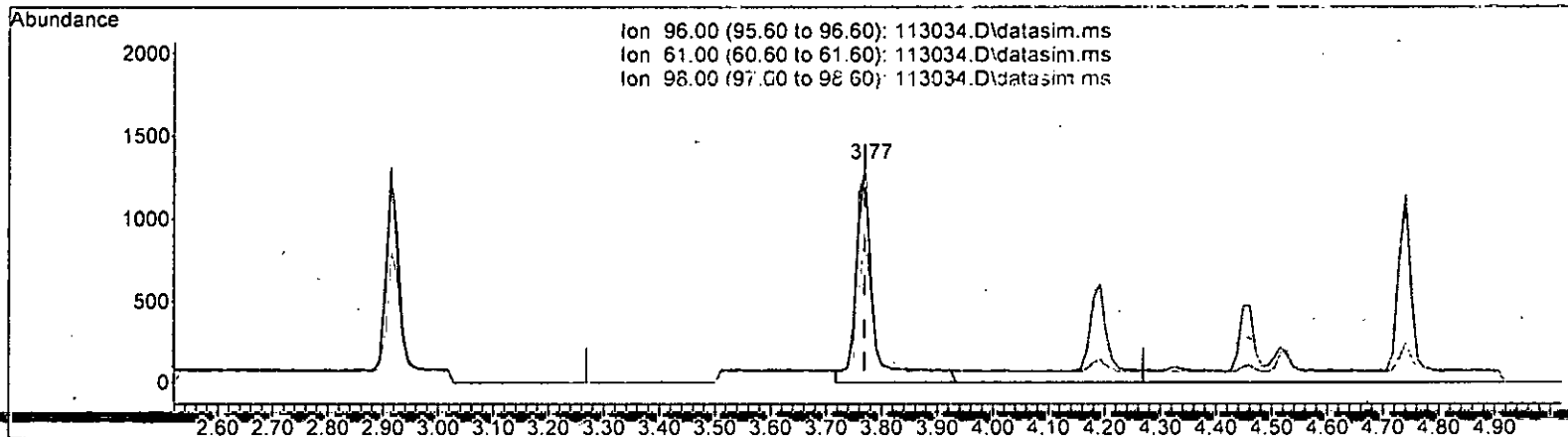
3.764min (-0.000) 0.528 ppb m

response	2458
Ion	Exp% Act%
77.00	100.00 100.00
96.90	32.00 26.90
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(22) cis-1,2-Dichloroethene (TMP)

3.769min (-0.000) 0.801 ppb

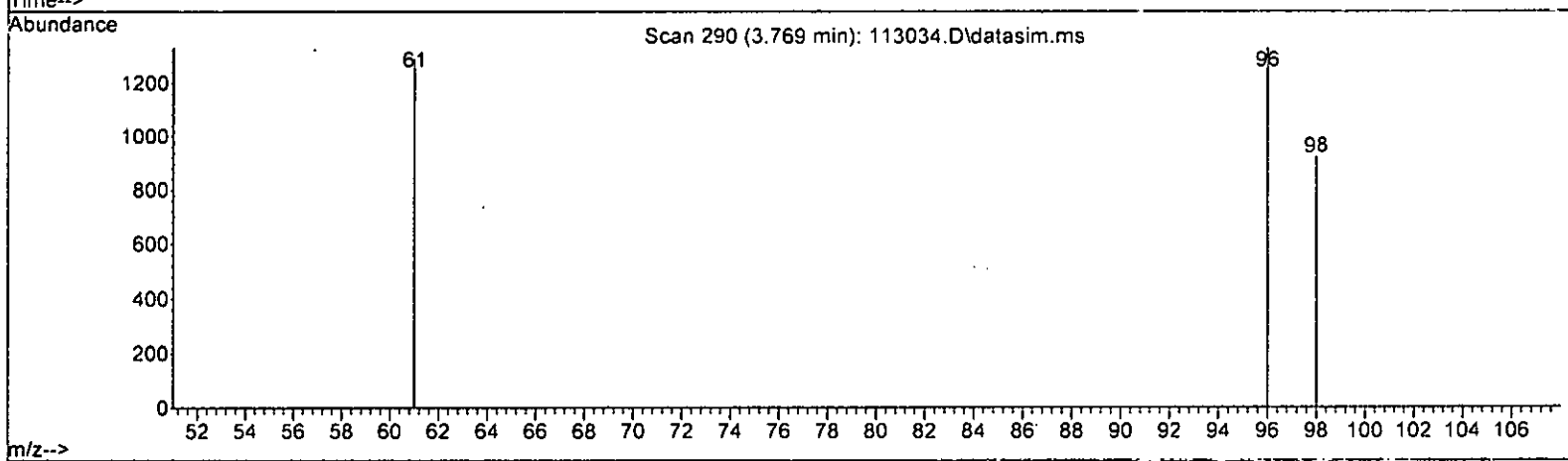
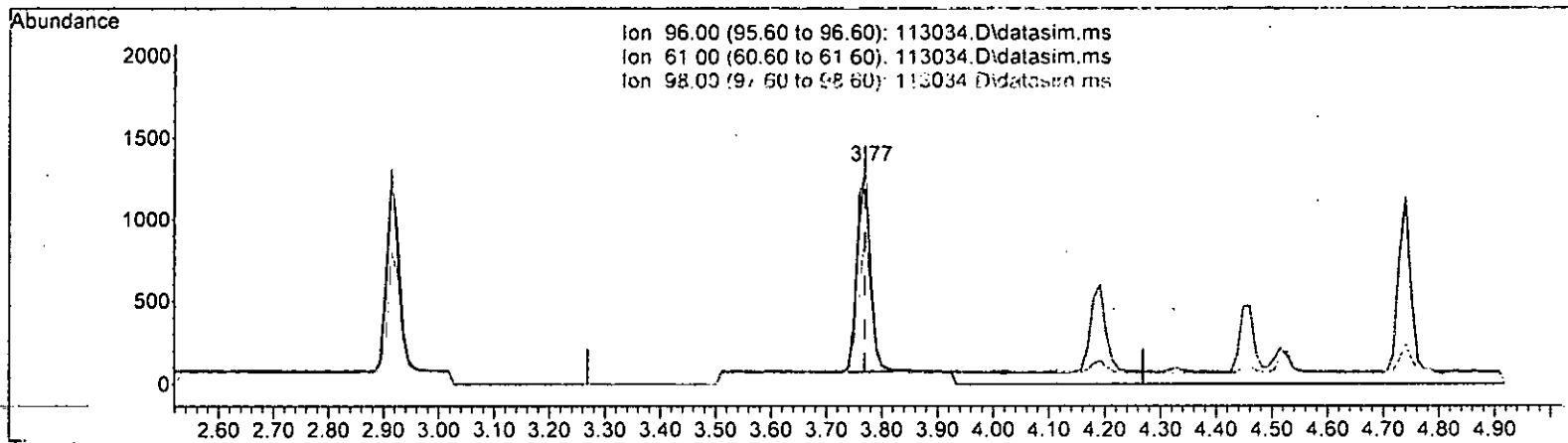
response	2931
Ion	Exp% Act%
96.00	100.00 100.00
61.00	97.00 91.35
98.00	68.10 64.36
0.00	0.00 0.00

M12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(22) cis-1,2-Dichloroethene (TMP)  
 3.769min (-0.000) 0.538 ppb m

response 1968

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	97.00	96.99
98.00	68.10	69.47
0.00	0.00	0.00

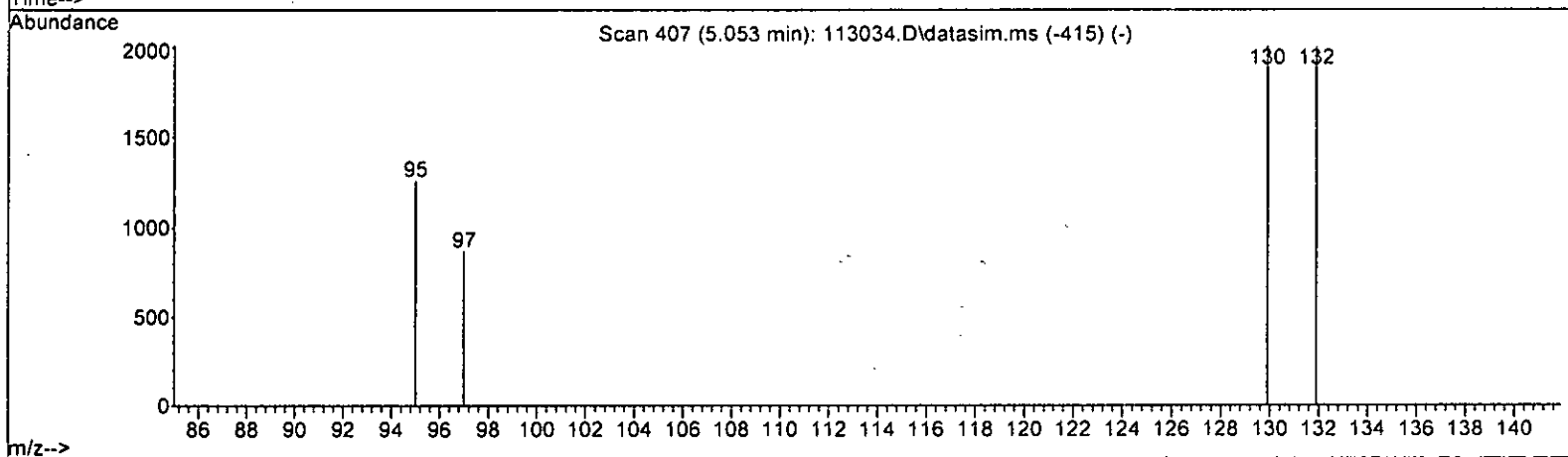
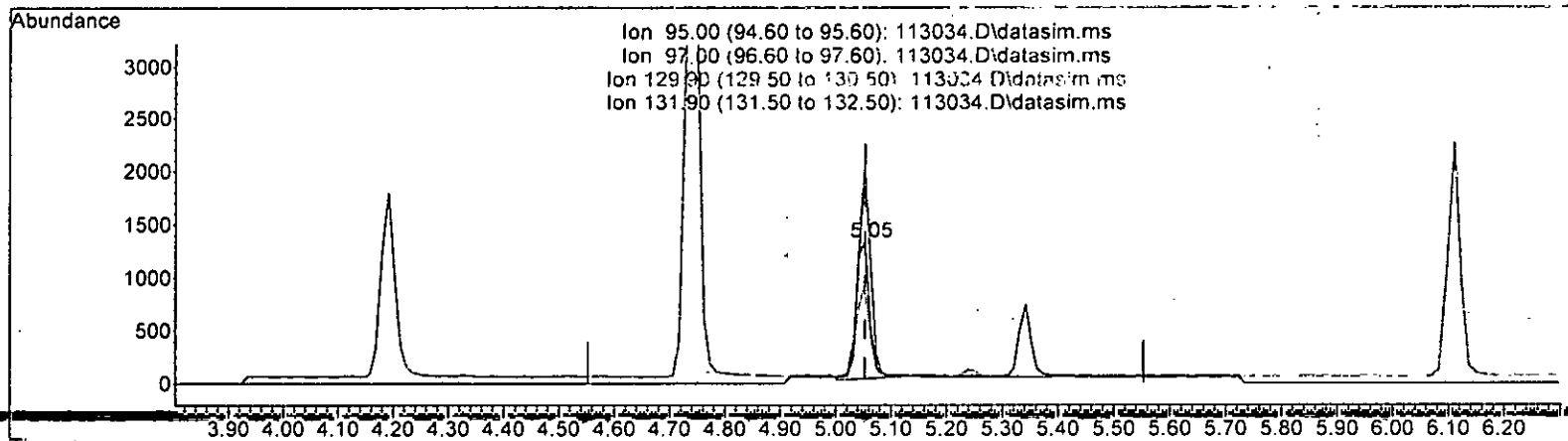
m 12.1



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(32) Trichloroethene (TME)

5.053min (-0.000) 0.596 ppb

response 2236

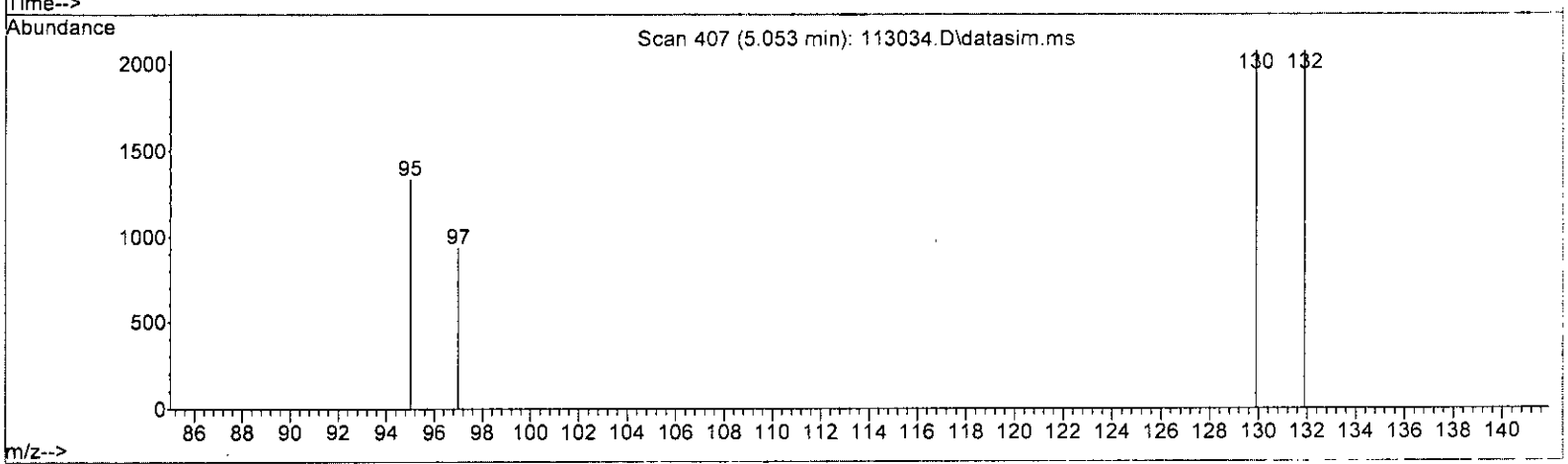
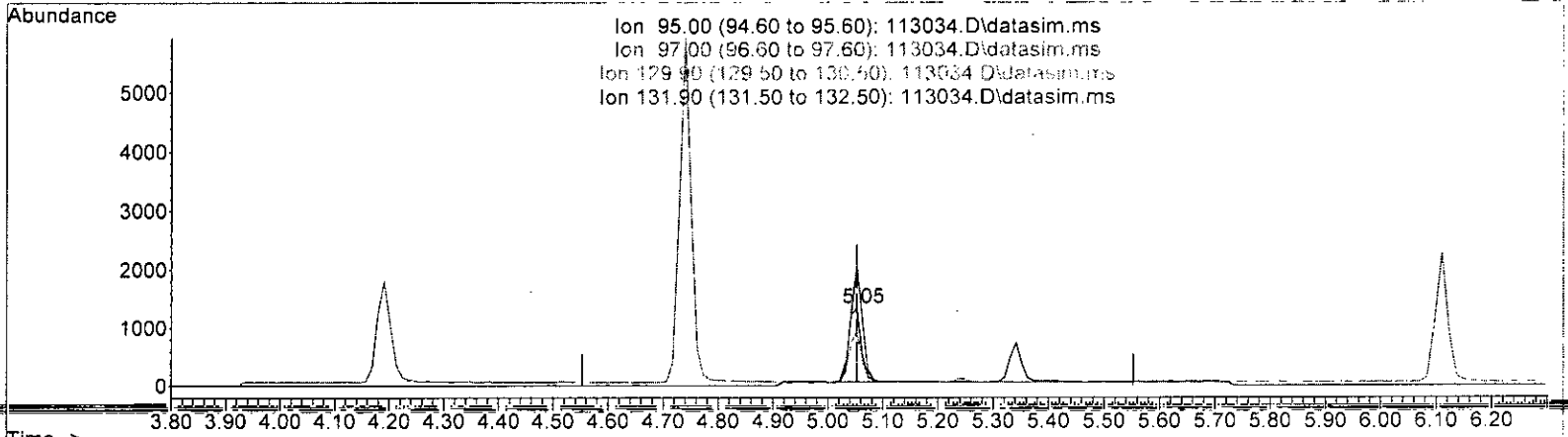
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	68.62
129.90	161.00	159.98
131.90	160.10	159.35

*M 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113034.D\data.ms

(32) Trichloroethene (TMP)  
 5.053min (-0.000) 0.558 ppb m

response	2096	
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	69.90	70.10
129.90	161.00	155.97
131.90	160.10	155.30

*LM 12.1*

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	123466	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	111984	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	68714	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	41571	10.569	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	105.70%		
30) 1,2-Dichloroethane-d4	4.45	102	7900	10.716	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery	=	107.20%		
35) Toluene-d8	6.11	98	116986	10.541	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery	=	105.40%		
57) 4-Bromofluorobenzene	8.51	95	43280	10.394	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery	=	103.90%		
Target Compounds							
							Qvalue
2) Ethanol	2.35	45	207	No Calib			
4) Dichlorodifluoromethane	1.11	85	4074	0.567	ppb		92
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.33	62	2598m	0.564	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.64	64	1353m	0.548	ppb		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	2.35	45	207	No Calib			
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.26	96	1612m	0.527	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.93	73	3934m	0.535	ppb		
17] trans-1,2-Dichloroethene	2.91	96	1822m	0.538	ppb		
18) Diisopropyl ether (DIPE)	3.34	45	3332	0.506	ppb		90
19] 1,1-Dichloroethane	3.27	63	2275	0.541	ppb		100
20) Ethyl t-butyl ether (E...)	3.65	87	1826	0.515	ppb		93
21) 2,2-Dichloropropane	3.76	77	2896	0.677	ppb		91
22] cis-1,2-Dichloroethene	3.77	96	1968m	0.538	ppb		
23) Chloroform	4.04	83	2934	0.538	ppb		97
24) 2-Butanone (MEK)	3.79	43	3573	3.132	ppb		84
25) t-Amyl methyl ether (T...)	4.61	73	3699	0.544	ppb		98
26] 1,2-Dichloroethane (EDC)	4.52	62	2080	0.535	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	3136	0.543	ppb		100
28) 1,1-Dichloropropene	4.32	75	2041	0.516	ppb		89
29) Carbon tetrachloride	4.32	117	3273	0.533	ppb		100
31] Benzene	4.50	78	5597	0.560	ppb		100
32] Trichloroethene	5.05	95	2096m	0.558	ppb		
33) 1,2-Dichloropropane	5.24	63	1606	0.607	ppb	#	81
34) Bromodichloromethane	5.48	83	2332	0.597	ppb		73
36) Dibromomethane	5.34	93	1174	0.551	ppb		77

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

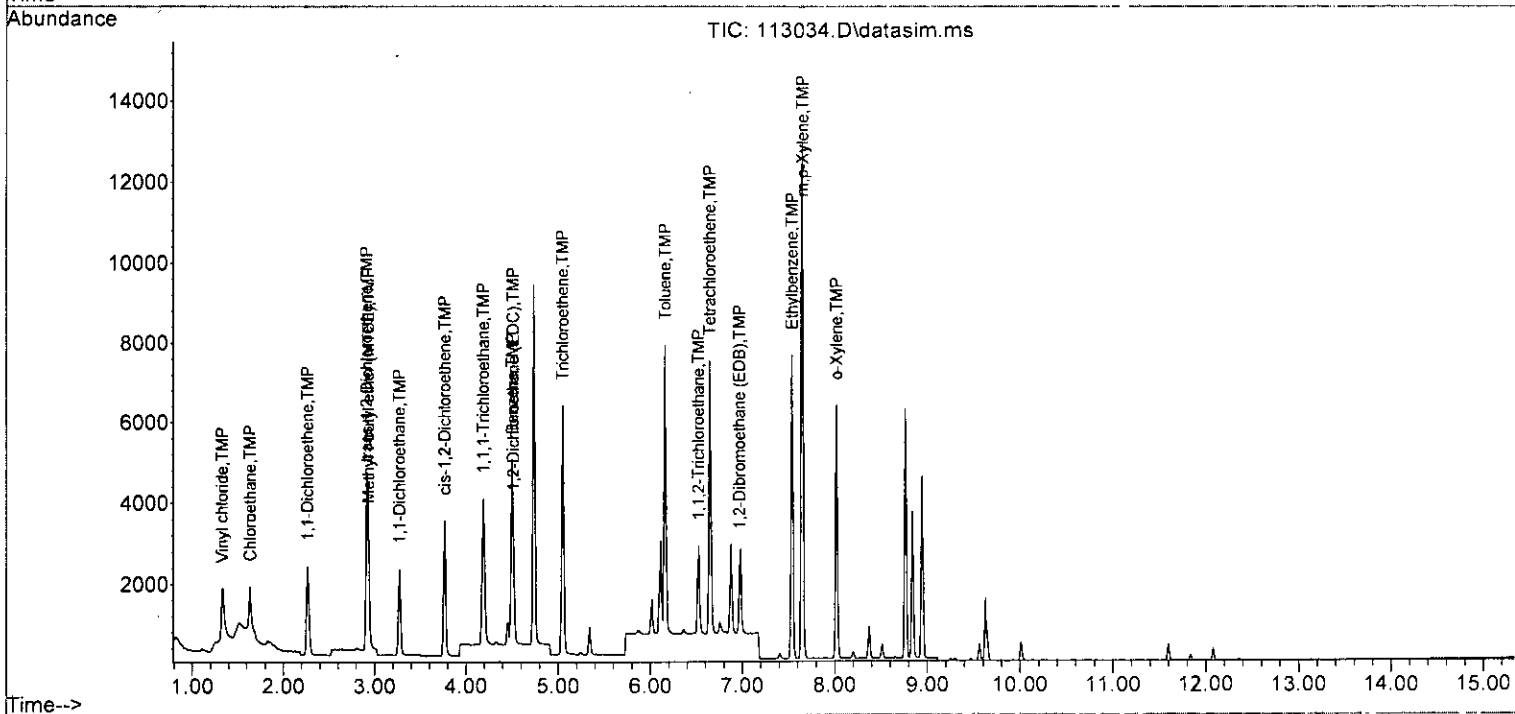
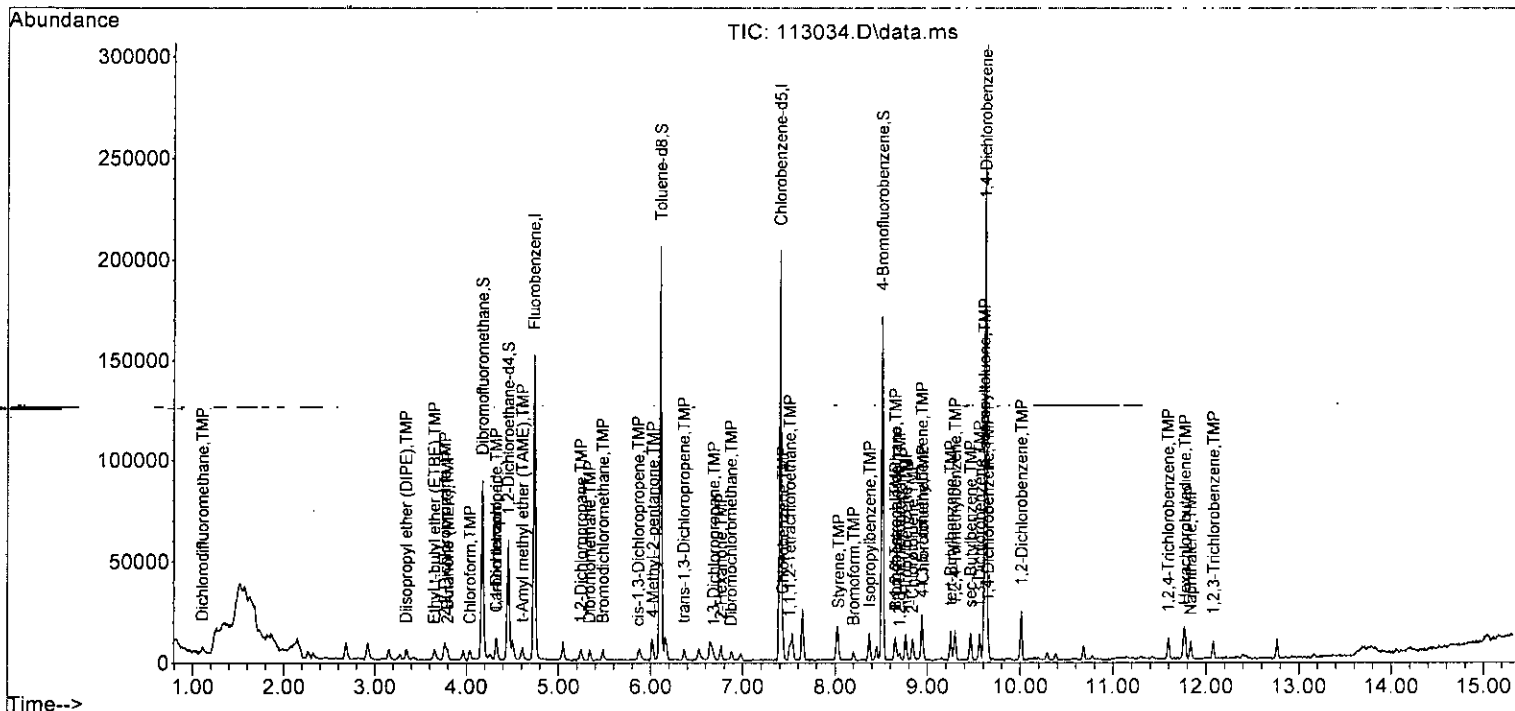
Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	1358	2.771	ppb	# 77
38) cis-1,3-Dichloropropene	5.86	75	2256	0.556	ppb	83
40] Toluene	6.16	92	3979	0.505	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	1755	0.441	ppb	88
42] 1,1,2-Trichloroethane	6.53	83	1124	0.506	ppb	98
43) 2-Hexanone	6.76	43	4000	2.524	ppb	95
44) 1,3-Dichloropropane	6.68	76	2184	0.577	ppb	93
45] Tetrachloroethene	6.65	164	2454	0.496	ppb	99
46) Dibromochloromethane	6.87	129	2235	0.469	ppb	96
47] 1,2-Dibromoethane (EDB)	6.97	107	1851	0.514	ppb	98
48) Chlorobenzene	7.43	112	5481	0.519	ppb	98
49] Ethylbenzene	7.54	91	7706	0.508	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	2232	0.483	ppb	87
51] m,p-Xylene	7.65	106	6952	1.022	ppb	99
52] o-Xylene	8.02	106	3259	0.511	ppb	99
53) Styrene	8.03	104	4674	0.492	ppb	92
54) Isopropylbenzene	8.37	105	7720	0.509	ppb	95
55) Bromoform	8.20	173	1618	0.478	ppb	87
58) n-Propylbenzene	8.77	91	8342	0.538	ppb	98
59) Bromobenzene	8.65	156	2760	0.489	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	6683	0.530	ppb	96
61) 1,1,2,2-Tetrachloroethane	8.65	83	1576	0.522	ppb	88
62) 1,2,3-Trichloropropane	8.70	75	1475	0.636	ppb	89
63) 2-Chlorotoluene	8.84	91	4485	0.509	ppb	97
64) 4-Chlorotoluene	8.95	91	5624	0.527	ppb	84
65) tert-Butylbenzene	9.25	119	6719	0.502	ppb	96
66) 1,2,4-Trimethylbenzene	9.30	105	7096	0.523	ppb	97
67) sec-Butylbenzene	9.46	105	8310	0.505	ppb	97
68) p-Isopropyltoluene	9.61	119	8290	0.503	ppb	92
69) 1,3-Dichlorobenzene	9.56	146	5246	0.517	ppb	95
70) 1,4-Dichlorobenzene	9.65	146	5144	0.514	ppb	96
71) 1,2-Dichlorobenzene	10.01	146	5018	0.514	ppb	95
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.59	180	3298	0.481	ppb	99
74) Hexachlorobutadiene	11.77	225	2153	0.533	ppb	95
75) Naphthalene	11.83	128	6397	0.480	ppb	99
76) 1,2,3-Trichlorobenzene	12.08	180	2859	0.527	ppb	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCM513

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	100	0.02
3 S	Dibromofluoromethane	10.000	10.569	-5.7	100	0.00
4 TMP	Dichlorodifluoromethane	0.500	0.567	-13.4	100	0.00
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.25#
6 TMP	Vinyl chloride	0.500	0.564	-12.8	115	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP	Chloroethane	0.500	0.548	-9.6	103	0.00
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.83#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.02
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.32#
12 TMP	1,1-Dichloroethene	0.500	0.527	-5.4	100	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.16#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.81#
16 TMP	Methyl t-butyl ether (MTBE)	0.500	0.535	-7.0	98	0.01
17 TMP	trans-1,2-Dichloroethene	0.500	0.538	-7.6	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.500	0.506	-1.2	100	0.00
19 TMP	1,1-Dichloroethane	0.500	0.541	-8.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.500	0.515	-3.0	100	0.00
21 TMP	2,2-Dichloropropane	0.500	0.528	-5.6	85	0.00
22 TMP	cis-1,2-Dichloroethene	0.500	0.538	-7.6	97	0.00
23 TMP	Chloroform	0.500	0.538	-7.6	100	0.00
24 TMP	2-Butanone (MEK)	2.500	3.132	-25.3#	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.500	0.544	-8.8	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.500	0.535	-7.0	100	0.00
27 TMP	1,1,1-Trichloroethane	0.500	0.543	-8.6	100	0.00
28 TMP	1,1-Dichloropropene	0.500	0.516	-3.2	100	-0.01
29 TMP	Carbon tetrachloride	0.500	0.533	-6.6	100	-0.01
30 S	1,2-Dichloroethane-d4	10.000	10.716	-7.2	100	0.00
31 TMP	Benzene	0.500	0.560	-12.0	100	0.00
32 TMP	Trichloroethene	0.500	0.558	-11.6	100	0.00
33 TMP	1,2-Dichloropropane	0.500	0.607	-21.4#	100	0.00
34 TMP	Bromodichloromethane	0.500	0.597	-19.4	100	0.00
35 S	Toluene-d8	10.000	10.541	-5.4	100	0.00
36 TMP	Dibromomethane	0.500	0.551	-10.2	100	0.00
37 TMP	4-Methyl-2-pentanone	2.500	2.771	-10.8	100	0.01
38 TMP	cis-1,3-Dichloropropene	0.500	0.556	-11.2	100	-0.01
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.500	0.505	-1.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.500	0.441	11.8	100	0.00
42 TMP	1,1,2-Trichloroethane	0.500	0.506	-1.2	100	0.00
43 TMP	2-Hexanone	2.500	2.524	-1.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.500	0.577	-15.4	100	0.01
45 TMP Tetrachloroethene	0.500	0.496	0.8	100	0.00
46 TMP Dibromochloromethane	0.500	0.469	6.2	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.500	0.514	-2.8	100	0.00
48 TMP Chlorobenzene	0.500	0.519	-3.8	100	0.00
49 TMP Ethylbenzene	0.500	0.508	-1.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.500	0.483	3.4	100	0.00
51 TMP m,p-Xylene	1.000	1.022	-2.2	100	0.00
52 TMP o-Xylene	0.500	0.511	-2.2	100	0.00
53 TMP Styrene	0.500	0.492	1.6	100	0.00
54 TMP Isopropylbenzene	0.500	0.509	-1.8	100	0.00
55 TMP Bromoform	0.500	0.478	4.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.394	-3.9	100	0.00
58 TMP n-Propylbenzene	0.500	0.538	-7.6	100	0.00
59 TMP Bromobenzene	0.500	0.489	2.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.500	0.530	-6.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.500	0.522	-4.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.500	0.636	-27.2#	100	0.00
63 TMP 2-Chlorotoluene	0.500	0.509	-1.8	100	0.00
64 TMP 4-Chlorotoluene	0.500	0.527	-5.4	100	0.00
65 TMP tert-Butylbenzene	0.500	0.502	-0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.500	0.523	-4.6	100	0.00
67 TMP sec-Butylbenzene	0.500	0.505	-1.0	100	0.00
68 TMP p-Isopropyltoluene	0.500	0.503	-0.6	100	0.00
69 TMP 1,3-Dichlorobenzene	0.500	0.517	-3.4	100	0.00
70 TMP 1,4-Dichlorobenzene	0.500	0.514	-2.8	100	0.00
71 TMP 1,2-Dichlorobenzene	0.500	0.514	-2.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.500	0.481	3.8	100	0.00
74 TMP Hexachlorobutadiene	0.500	0.533	-6.6	100	0.00
75 TMP Naphthalene	0.500	0.480	4.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.500	0.527	-5.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	123466	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	111984	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	68714	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	41571	10.569	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	105.70%		
30) 1,2-Dichloroethane-d4	4.45	102	7900	10.716	ppb	0.00	
Spiked Amount	10.000	Range 84 - 120	Recovery	=	107.20%		
35) Toluene-d8	6.11	98	116986	10.541	ppb	0.00	
Spiked Amount	10.000	Range 73 - 128	Recovery	=	105.40%		
57) 4-Bromofluorobenzene	8.51	95	43280	10.394	ppb	0.00	
Spiked Amount	10.000	Range 57 - 146	Recovery	=	103.90%		
<b>Target Compounds</b>							
2) Ethanol	2.35	45	207	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	4074	0.567	ppb		92
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.33	62	2598m	0.564	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.64	64	1353m	0.548	ppb		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	2.35	45	207	No Calib			
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.26	96	1612m	0.527	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.93	73	3934m	0.535	ppb		
17] trans-1,2-Dichloroethene	2.91	96	1822m	0.538	ppb		
18) Diisopropyl ether (DIPE)	3.34	45	3332	0.506	ppb		90
19] 1,1-Dichloroethane	3.27	63	2275	0.541	ppb		100
20) Ethyl t-butyl ether (E...)	3.65	87	1826	0.515	ppb		93
21) 2,2-Dichloropropane	3.76	77	2458m	0.528	ppb		
22] cis-1,2-Dichloroethene	3.77	96	1968m	0.538	ppb		
23) Chloroform	4.04	83	2934	0.538	ppb		97
24) 2-Butanone (MEK)	3.79	43	3573	3.132	ppb		84
25) t-Amyl methyl ether (T...)	4.61	73	3699	0.544	ppb		98
26] 1,2-Dichloroethane (EDC)	4.52	62	2080	0.535	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	3136	0.543	ppb		100
28) 1,1-Dichloropropene	4.32	75	2041	0.516	ppb		89
29) Carbon tetrachloride	4.32	117	3273	0.533	ppb		100
31] Benzene	4.50	78	5597	0.560	ppb		100
32] Trichloroethene	5.05	95	2096m	0.558	ppb		
33) 1,2-Dichloropropane	5.24	63	1606	0.607	ppb	#	81
34) Bromodichloromethane	5.48	83	2332	0.597	ppb		73
36) Dibromomethane	5.34	93	1174	0.551	ppb		77



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

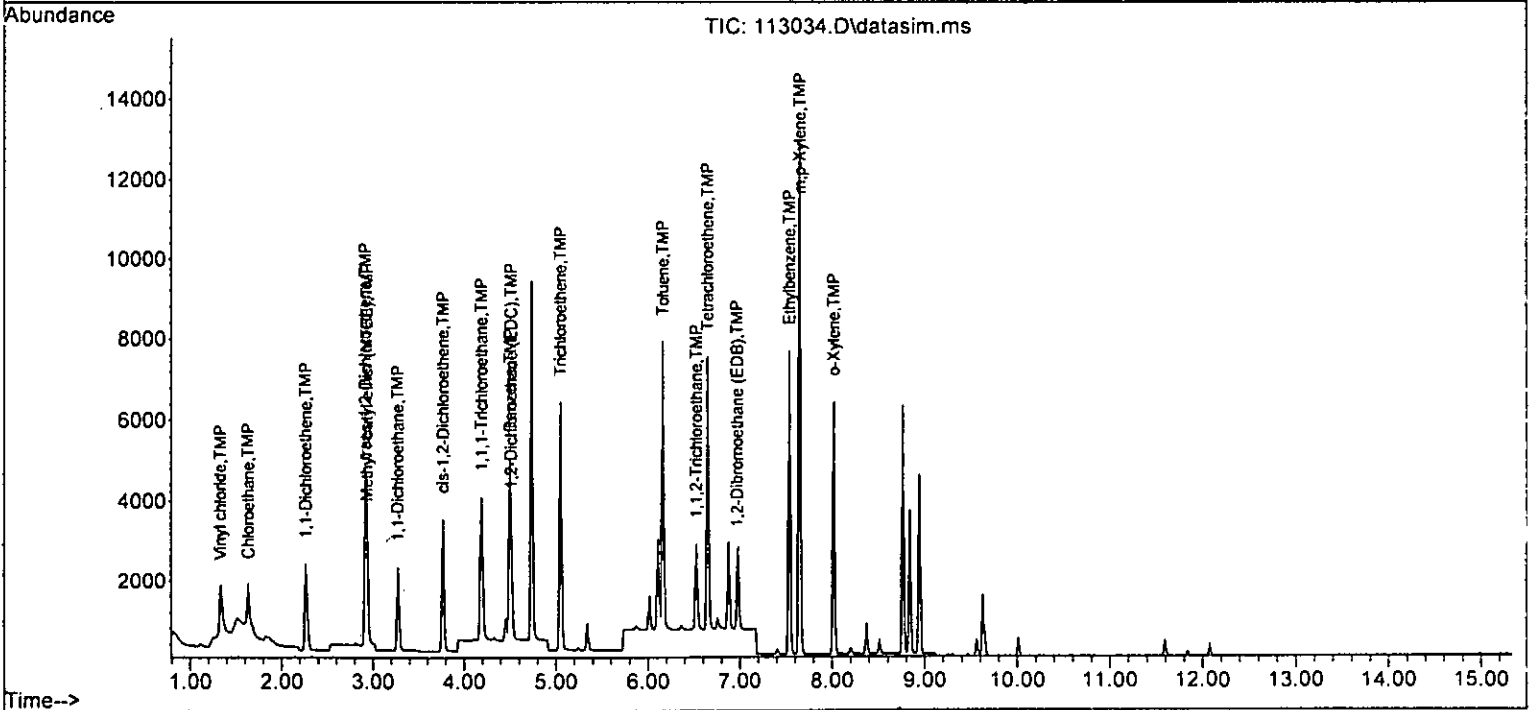
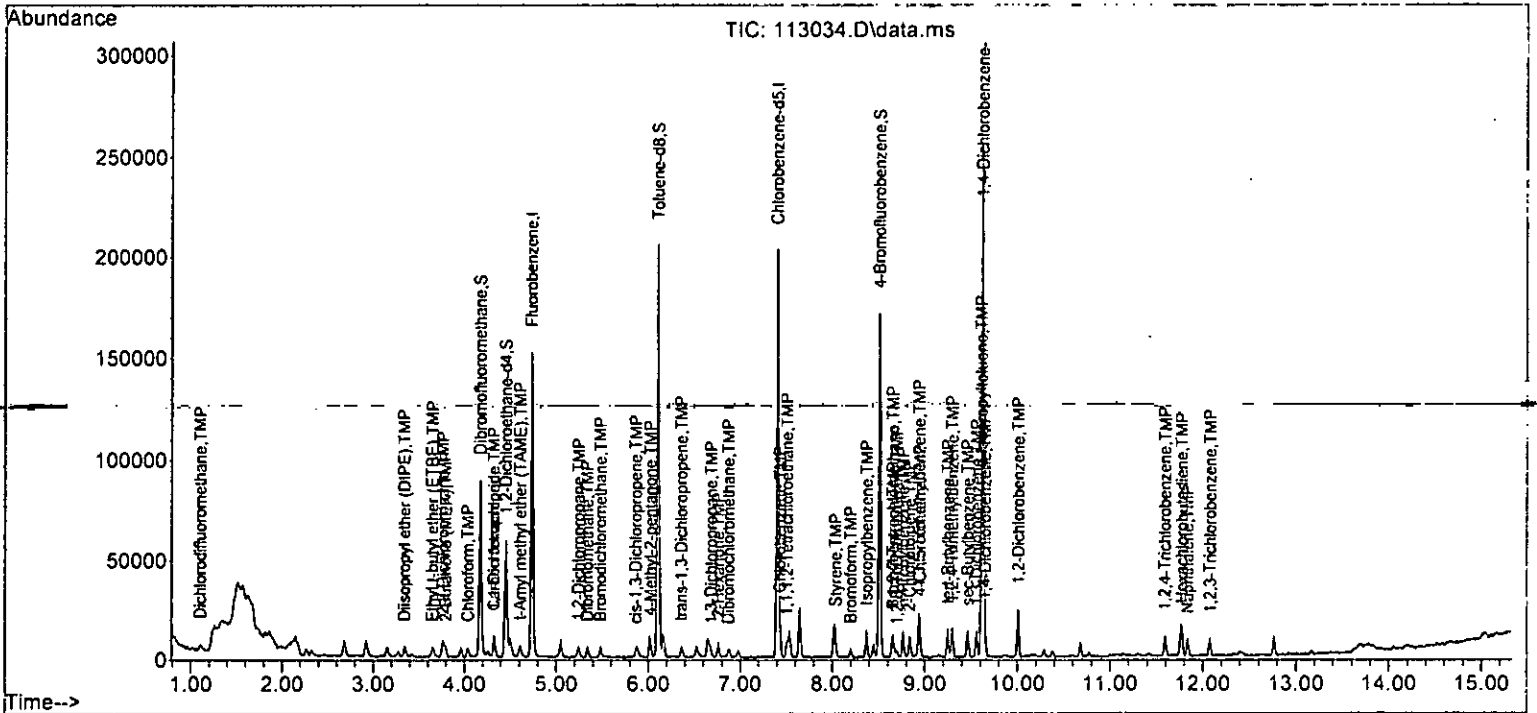
Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	#
37) 4-Methyl-2-pentanone	6.02	85	1358	2.771	ppb		77
38) cis-1,3-Dichloropropene	5.86	75	2256	0.556	ppb		83
40] Toluene	6.16	92	3979	0.505	ppb		98
41) trans-1,3-Dichloropropene	6.36	75	1755	0.441	ppb		88
42] 1,1,2-Trichloroethane	6.53	83	1124	0.506	ppb		98
43) 2-Hexanone	6.76	43	4000	2.524	ppb		95
44) 1,3-Dichloropropane	6.68	76	2184	0.577	ppb		93
45] Tetrachloroethene	6.65	164	2454	0.496	ppb		99
46) Dibromochloromethane	6.87	129	2235	0.469	ppb		96
47] 1,2-Dibromoethane (EDB)	6.97	107	1851	0.514	ppb		98
48) Chlorobenzene	7.43	112	5481	0.519	ppb		98
49] Ethylbenzene	7.54	91	7706	0.508	ppb		100
50) 1,1,1,2-Tetrachloroethane	7.51	131	2232	0.483	ppb		87
51] m,p-Xylene	7.65	106	6952	1.022	ppb		99
52] o-Xylene	8.02	106	3259	0.511	ppb		99
53) Styrene	8.03	104	4674	0.492	ppb		92
54) Isopropylbenzene	8.37	105	7720	0.509	ppb		95
55) Bromoform	8.20	173	1618	0.478	ppb		87
58) n-Propylbenzene	8.77	91	8342	0.538	ppb		98
59) Bromobenzene	8.65	156	2760	0.489	ppb		92
60) 1,3,5-Trimethylbenzene	8.94	105	6683	0.530	ppb		96
61) 1,1,2,2-Tetrachloroethane	8.65	83	1576	0.522	ppb		88
62) 1,2,3-Trichloropropane	8.70	75	1475	0.636	ppb		89
63) 2-Chlorotoluene	8.84	91	4485	0.509	ppb		97
64) 4-Chlorotoluene	8.95	91	5624	0.527	ppb		84
65) tert-Butylbenzene	9.25	119	6719	0.502	ppb		96
66) 1,2,4-Trimethylbenzene	9.30	105	7096	0.523	ppb		97
67) sec-Butylbenzene	9.46	105	8310	0.505	ppb		97
68) p-Isopropyltoluene	9.61	119	8290	0.503	ppb		92
69) 1,3-Dichlorobenzene	9.56	146	5246	0.517	ppb		95
70) 1,4-Dichlorobenzene	9.65	146	5144	0.514	ppb		96
71) 1,2-Dichlorobenzene	10.01	146	5018	0.514	ppb		95
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d		
73) 1,2,4-Trichlorobenzene	11.59	180	3298	0.481	ppb		99
74) Hexachlorobutadiene	11.77	225	2153	0.533	ppb		95
75) Naphthalene	11.83	128	6397	0.480	ppb		99
76) 1,2,3-Trichlorobenzene	12.08	180	2859	0.527	ppb		81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.02
3 S Dibromofluoromethane	0.319	0.337	-5.6	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.660	-13.4	100	0.00
5 TMP Chloromethane	0.386	0.000#	100.0#	0#	-1.25#
6 TMP Vinyl chloride	0.373	0.421	-12.9	115	0.00
7 TMP Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.200	0.219	-9.5	103	0.00
9 TMP Trichlorofluoromethane	1.015	0.000#	100.0#	0#	-1.83#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.02
11 TMP Acetone	0.022	0.000#	100.0#	0#	-2.32#
12 TMP 1,1-Dichloroethene	0.248	0.261	-5.2	100	0.00
13 TMP Hexane	0.236	0.000#	100.0#	0#	-3.16#
14 TMP Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.022	0.000#	100.0#	0#	-2.81#
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.637	-6.9	98	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.295	-7.7	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.533	0.540	-1.3	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.369	-8.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.296	-3.1	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.398	-34.0#	85	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.319	-7.8	97	0.00
23 TMP Chloroform	0.441	0.475	-7.7	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.116	-13.7	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.599	-8.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.337	-0.9	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.508	-8.5	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.331	-3.4	100	-0.01
29 TMP Carbon tetrachloride	0.497	0.530	-6.6	100	-0.01
30 S 1,2-Dichloroethane-d4	0.060	0.064	-6.7	100	0.00
31 TMP Benzene	0.849	0.907	-6.8	100	0.00
32 TMP Trichloroethene	0.304	0.340	-11.8	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.260	-37.6#	100	0.00
34 TMP Bromodichloromethane	0.316	0.378	-19.6	100	0.00
35 S Toluene-d8	0.899	0.948	-5.5	100	0.00
36 TMP Dibromomethane	0.173	0.190	-9.8	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.044	-10.0	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.365	-10.9	100	-0.01
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.711	1.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.313	12.1	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.201	1.5	100	0.00
43 TMP 2-Hexanone	0.142	0.143	-0.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113034.D  
 Acq On : 01 Dec 2022 12:15 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:03:41 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 11:54:01 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.390	-15.4	100	0.01
45 TMP Tetrachloroethene	0.443	0.438	1.1	100	0.00
46 TMP Dibromochloromethane	0.425	0.399	6.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.331	1.2	100	0.00
48 TMP Chlorobenzene	0.943	0.979	-3.8	100	0.00
49 TMP Ethylbenzene	1.560	1.376	11.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.399	3.4	100	0.00
51 TMP m,p-Xylene	0.718	0.621	13.5	100	0.00
<del>52 TMP o-Xylene</del>	<del>0.611</del>	<del>0.582</del>	<del>4.7</del>	<del>100</del>	<del>0.00</del>
53 TMP Styrene	0.848	0.835	1.5	100	0.00
54 TMP Isopropylbenzene	1.353	1.379	-1.9	100	0.00
55 TMP Bromoform	0.302	0.289	4.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.630	-4.0	100	0.00
58 TMP n-Propylbenzene	2.257	2.428	-7.6	100	0.00
59 TMP Bromobenzene	0.821	0.803	2.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.945	-5.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.459#	-6.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.429#	-27.3#	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.305	-1.8	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.637	-5.5	100	0.00
65 TMP tert-Butylbenzene	1.946	1.956	-0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.065	-4.6	100	0.00
67 TMP sec-Butylbenzene	2.396	2.419	-1.0	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.413	-0.5	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.527	-3.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.497	-2.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.461	-2.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.000#	100.0#	0#	-10.77#
73 TMP 1,2,4-Trichlorobenzene	0.997	0.960	3.7	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.627	-6.6	100	0.00
75 TMP Naphthalene	1.938	1.862	3.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.832	-5.4	100	0.00

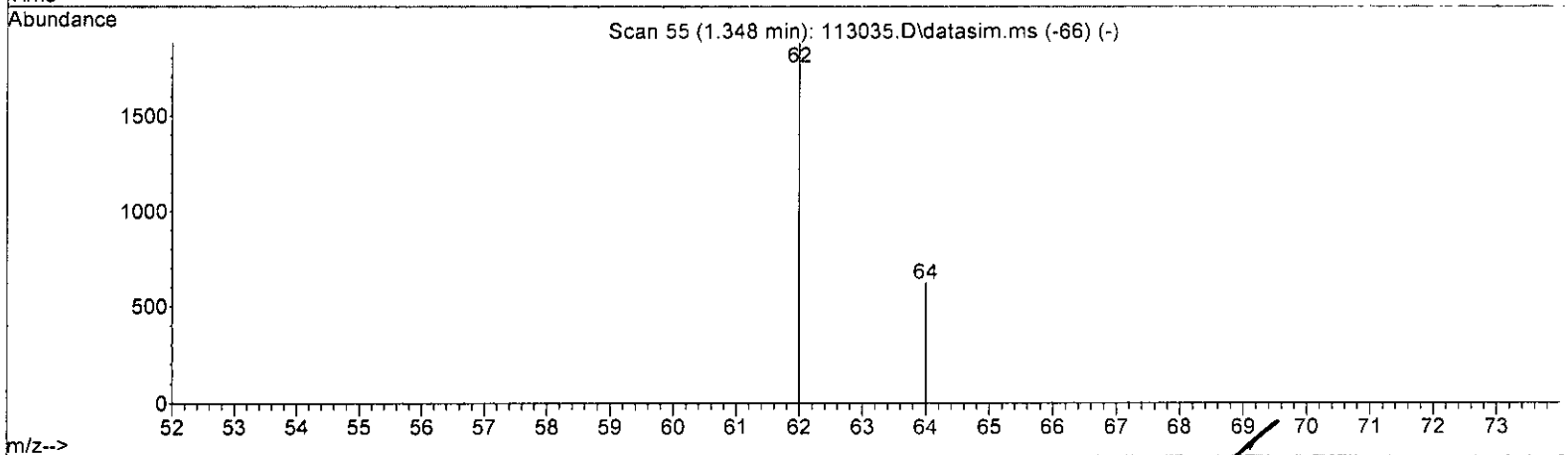
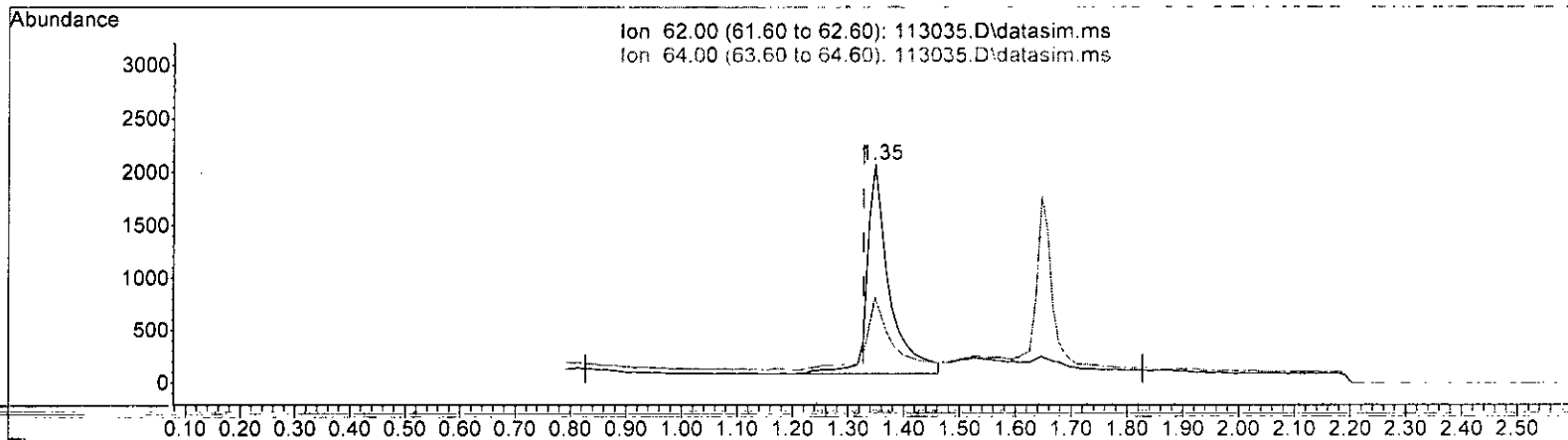
(#) = Out of Range

SPCC's out = 11 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(6) Vinyl chloride (TMP)

1.348min (+ 0.020) 1.125 ppb

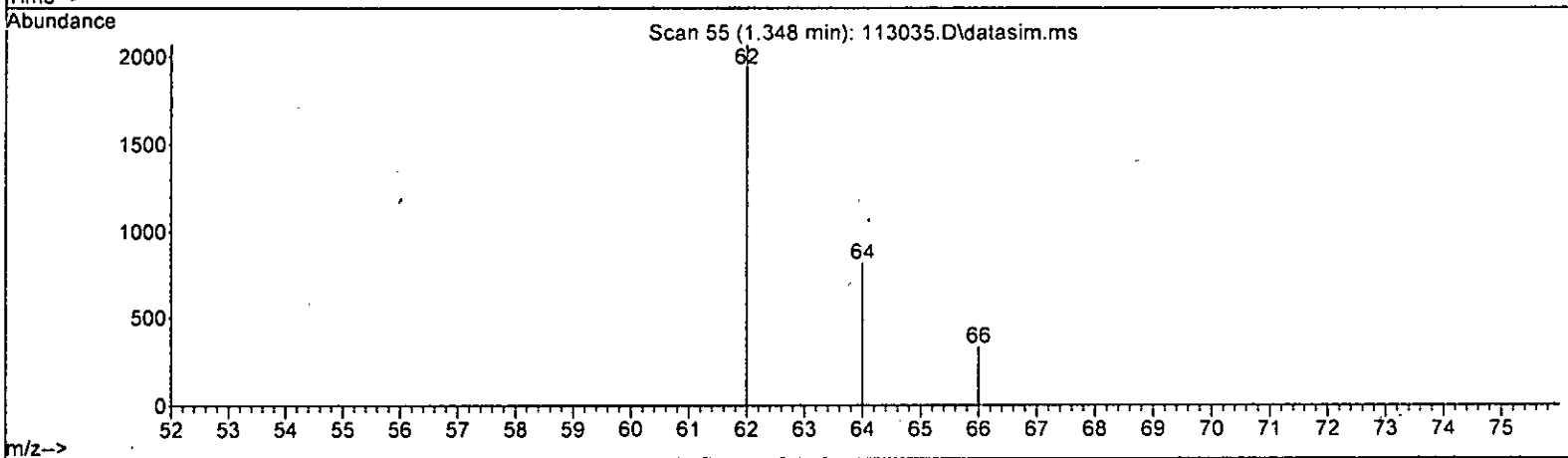
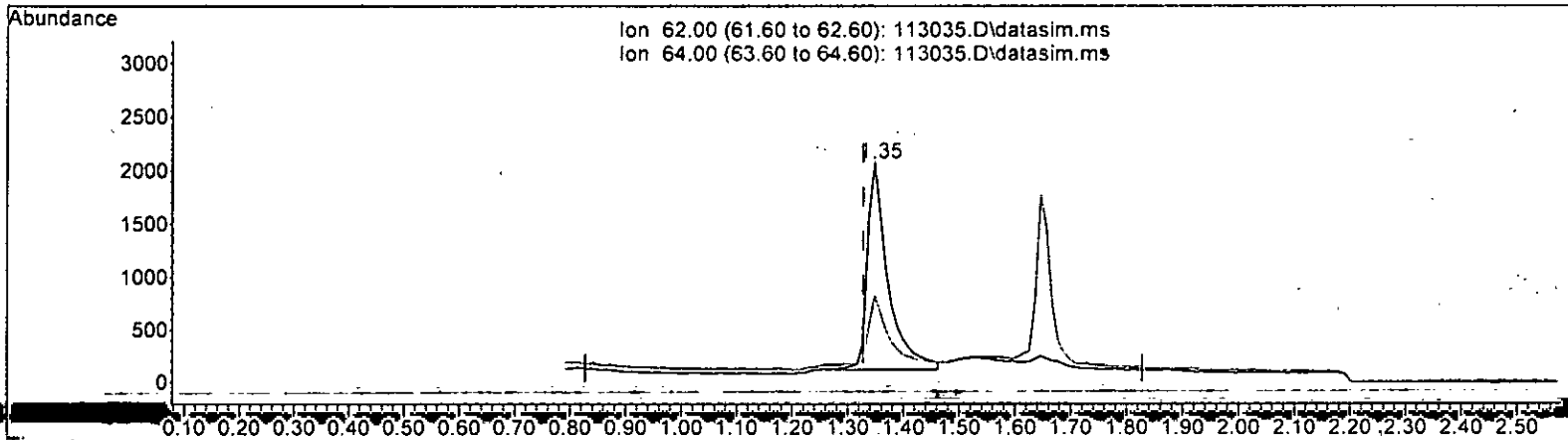
response	5553	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	34.96
0.00	0.00	0.00
0.00	0.00	0.00

*MR.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



TIC: 113035.D\data.ms

(6) Vinyl chloride (TMP)

1.348min (+ 0.020) 1.016 ppb m

response 5016

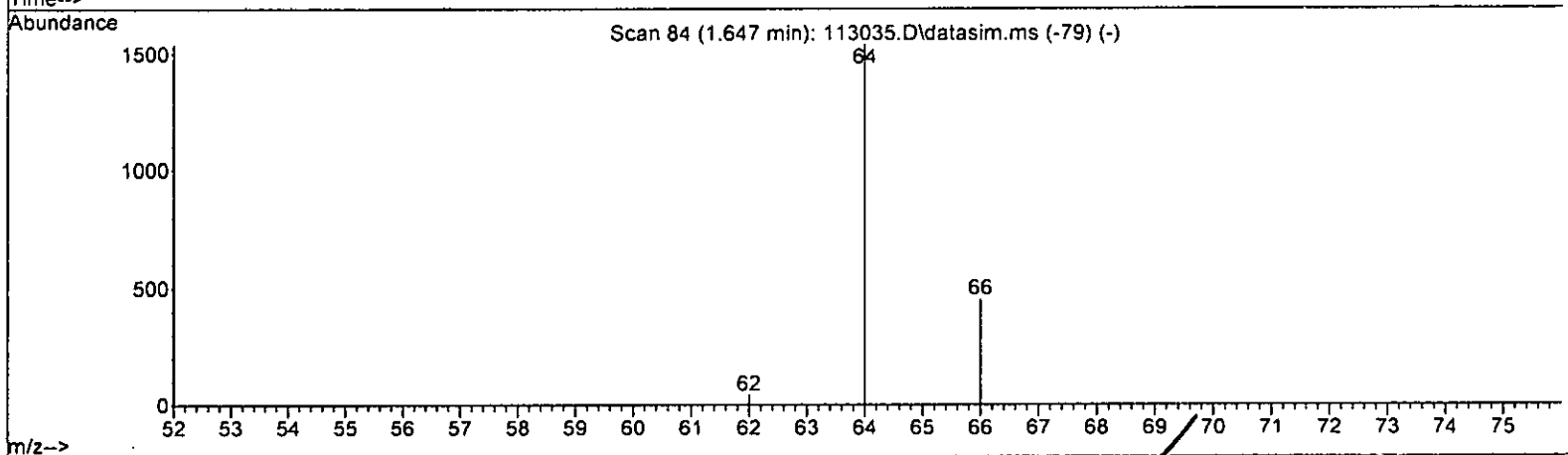
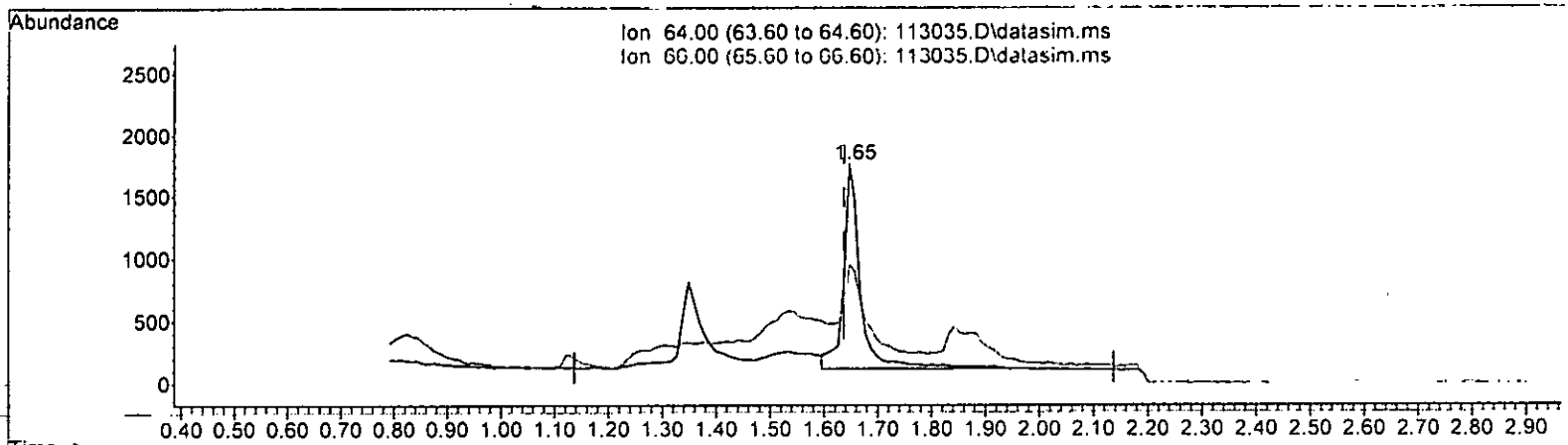
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	39.48
0.00	0.00	0.00
0.00	0.00	0.00

m/12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

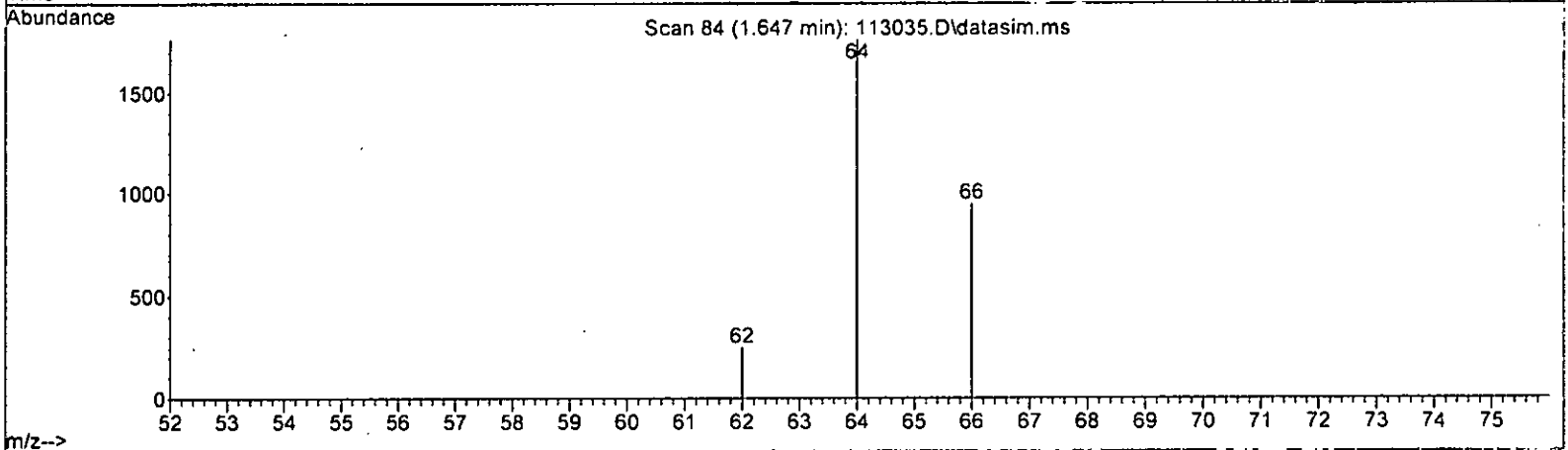
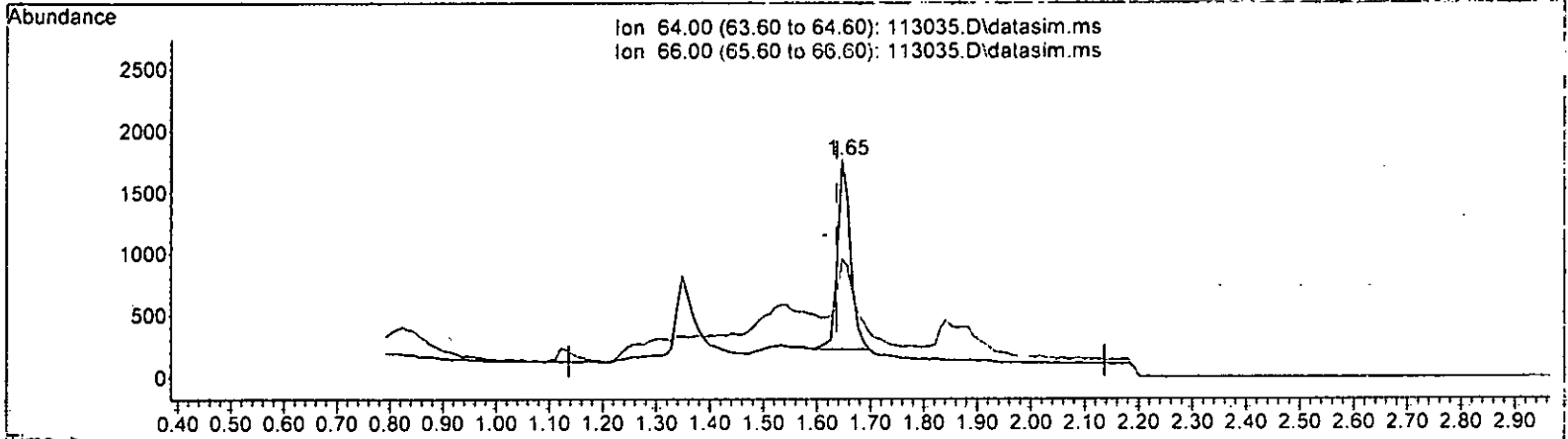
*m 12.1*

(8) Chloroethane (TMP)		
1.647min (+ 0.010)	1.383 ppb	
response	3656	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	47.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(8) Chloroethane (TMP)

1.647min (+ 0.010) 0.983 ppb m

response 2598

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	53.85
0.00	0.00	0.00
0.00	0.00	0.00

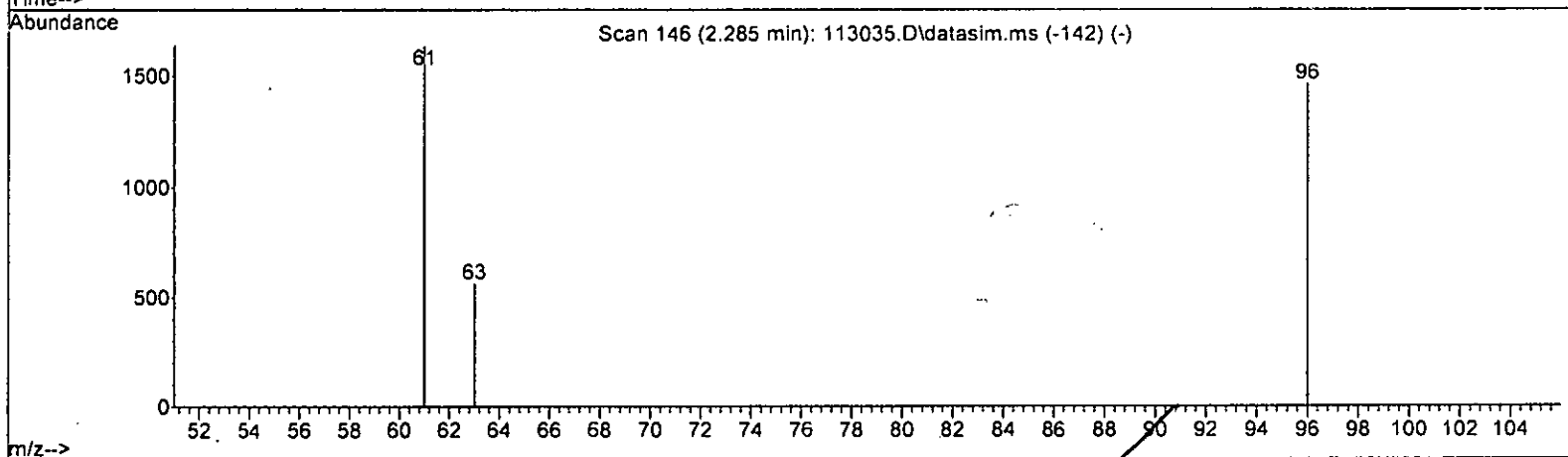
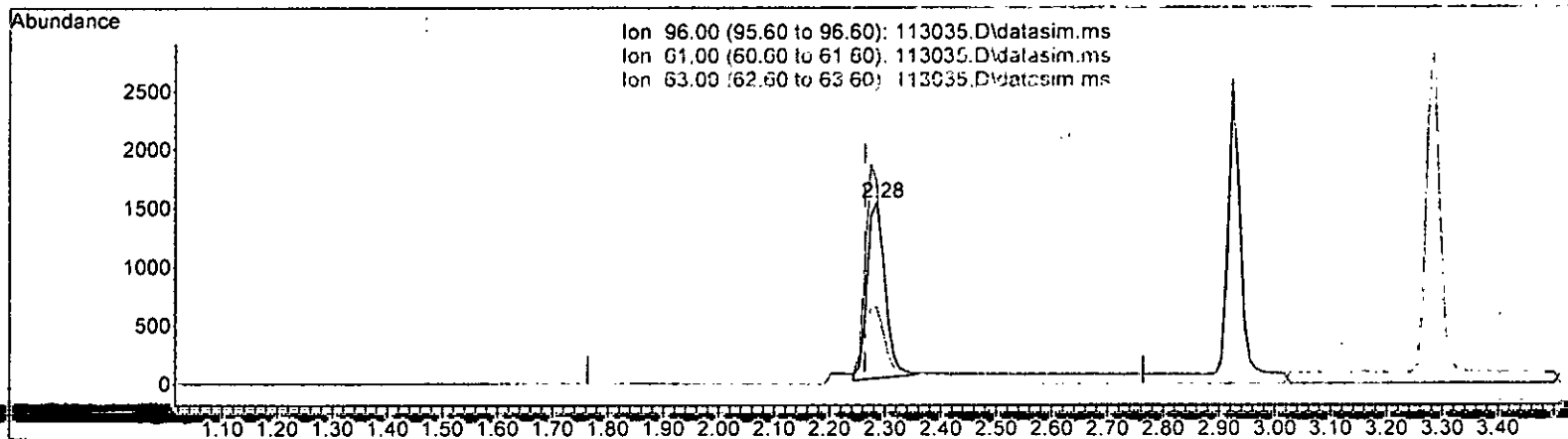
*W 12.1*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.285min (+ 0.021) 1.033 ppb

response 3389

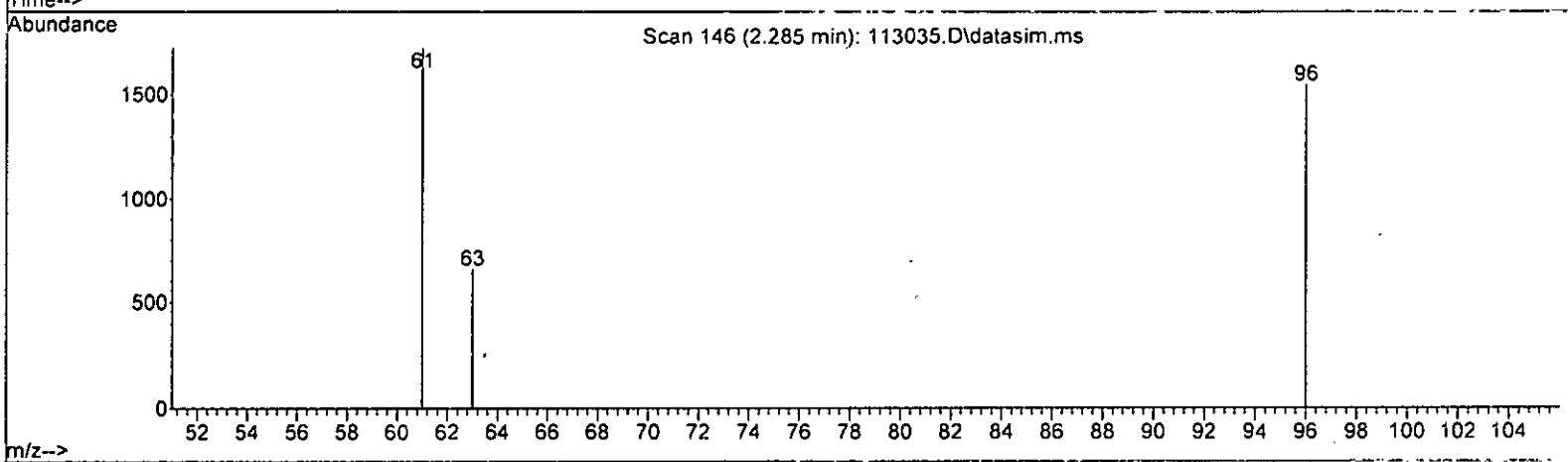
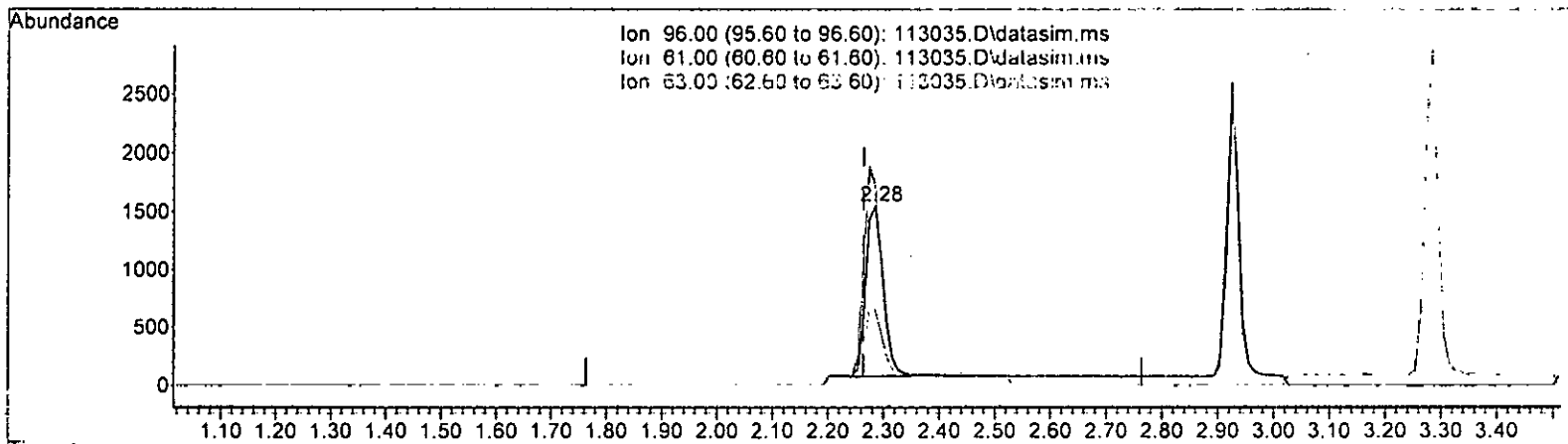
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	112.11
63.00	41.10	38.37
0.00	0.00	0.00

*W 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.285min (+ 0.021) 0.978 ppb m

response 3209

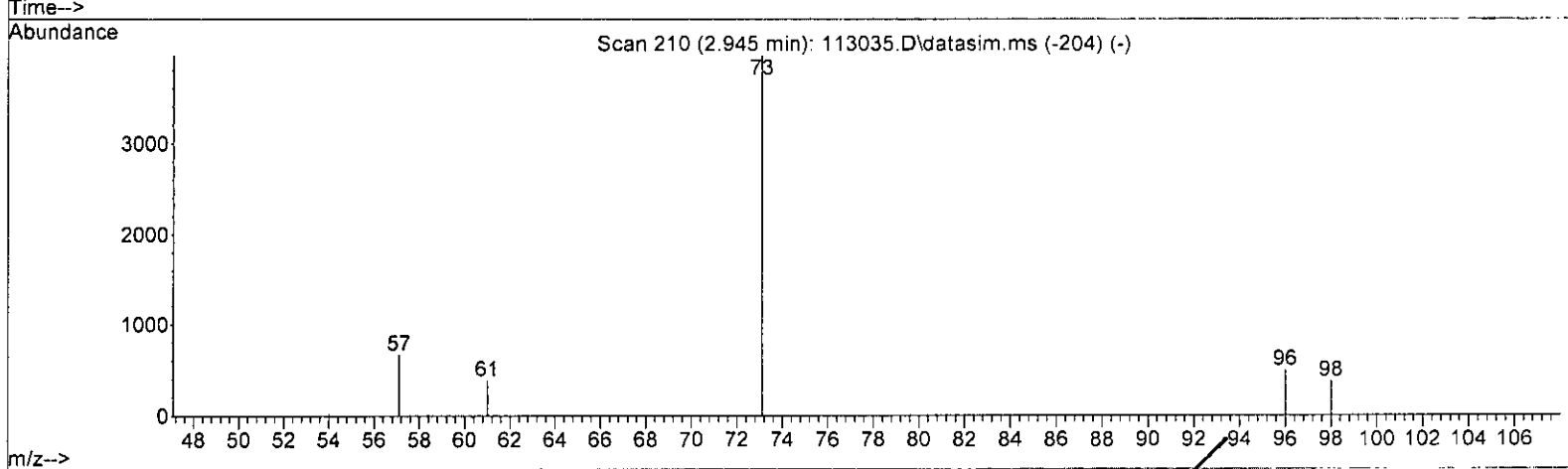
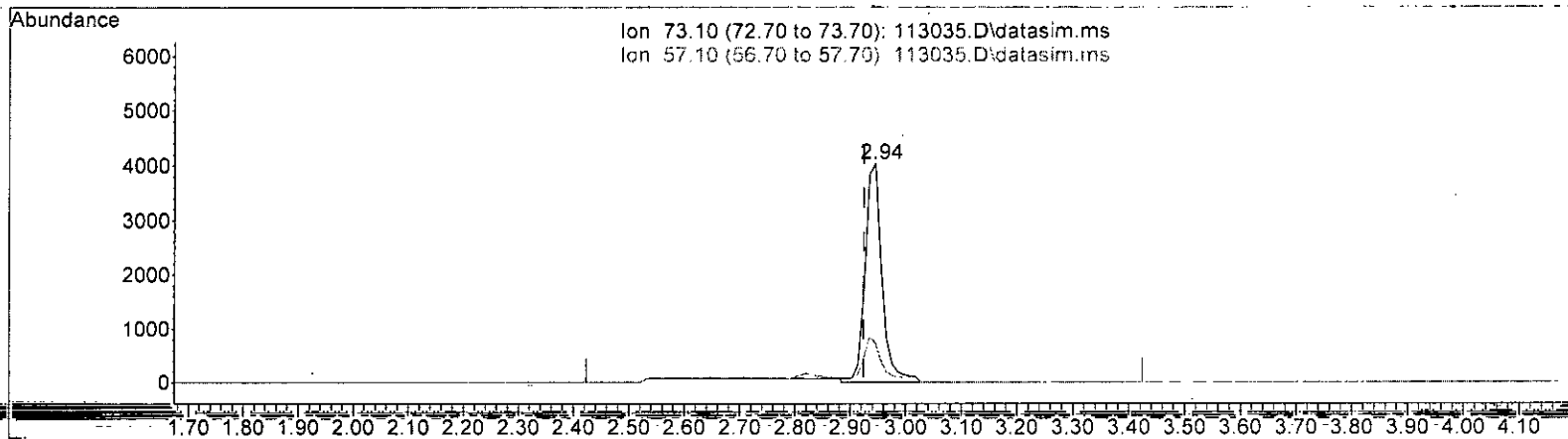
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	111.54
63.00	41.10	42.54
0.00	0.00	0.00

*LM 12/1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.945min (+ 0.021) 1.086 ppb

response 8562

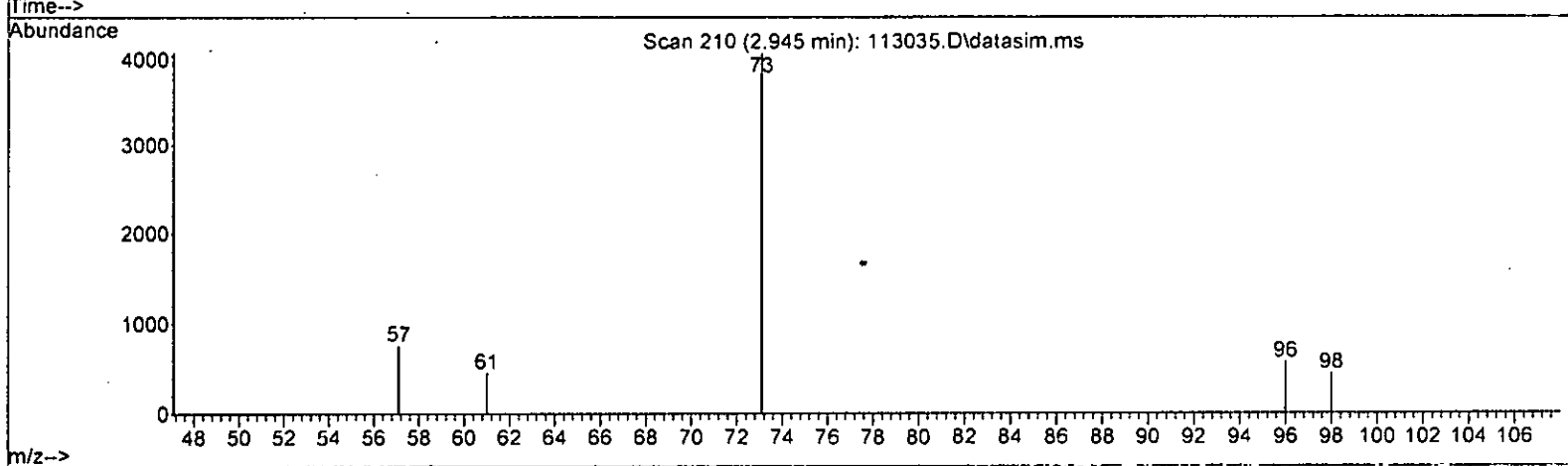
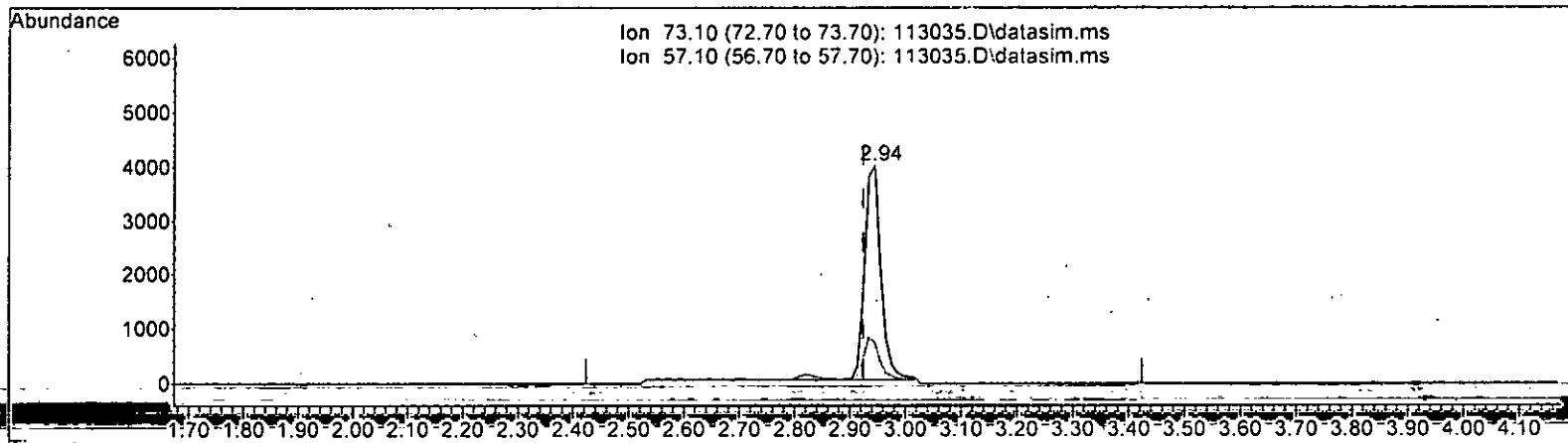
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	19.50	18.70
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)  
 2.945min (+ 0.021) 1.017 ppb m

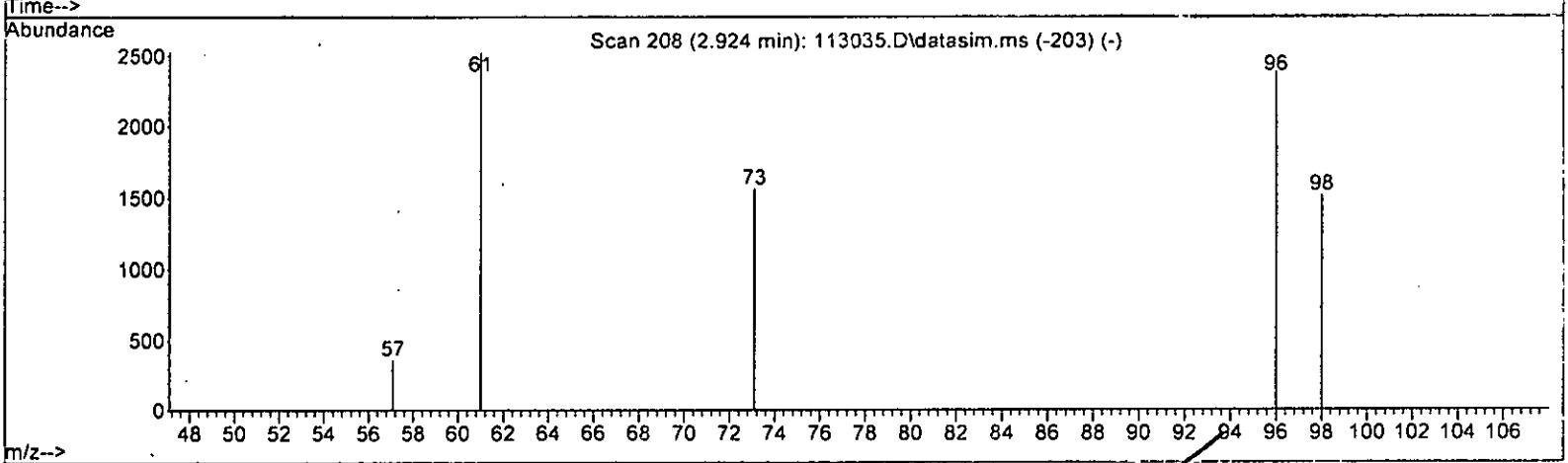
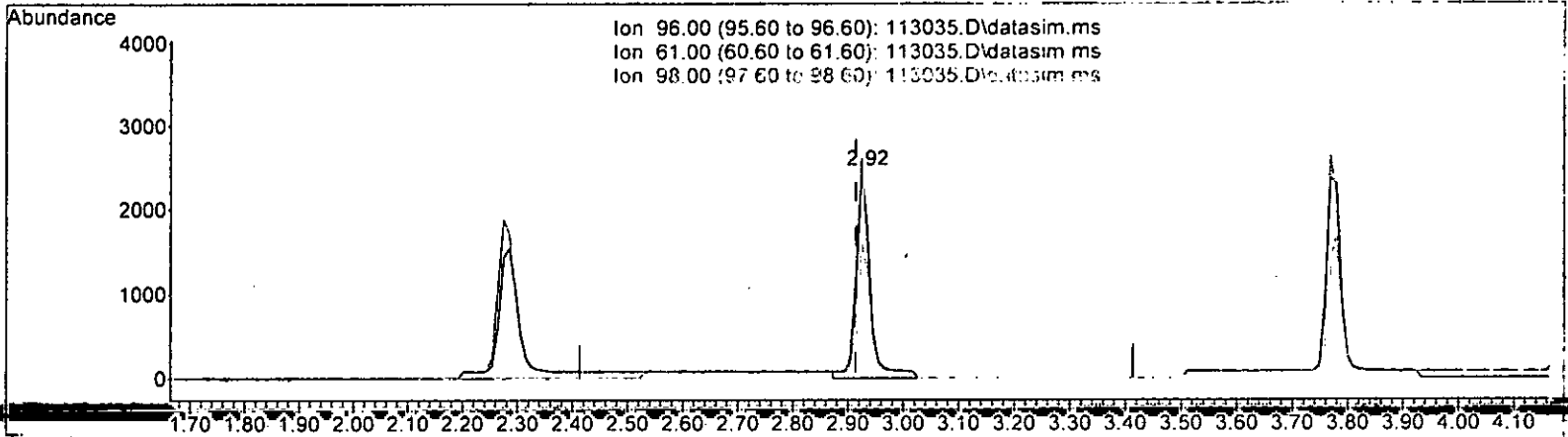
m 12.1

response	8013		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	19.50	18.70	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 1.179 ppb

response 4278

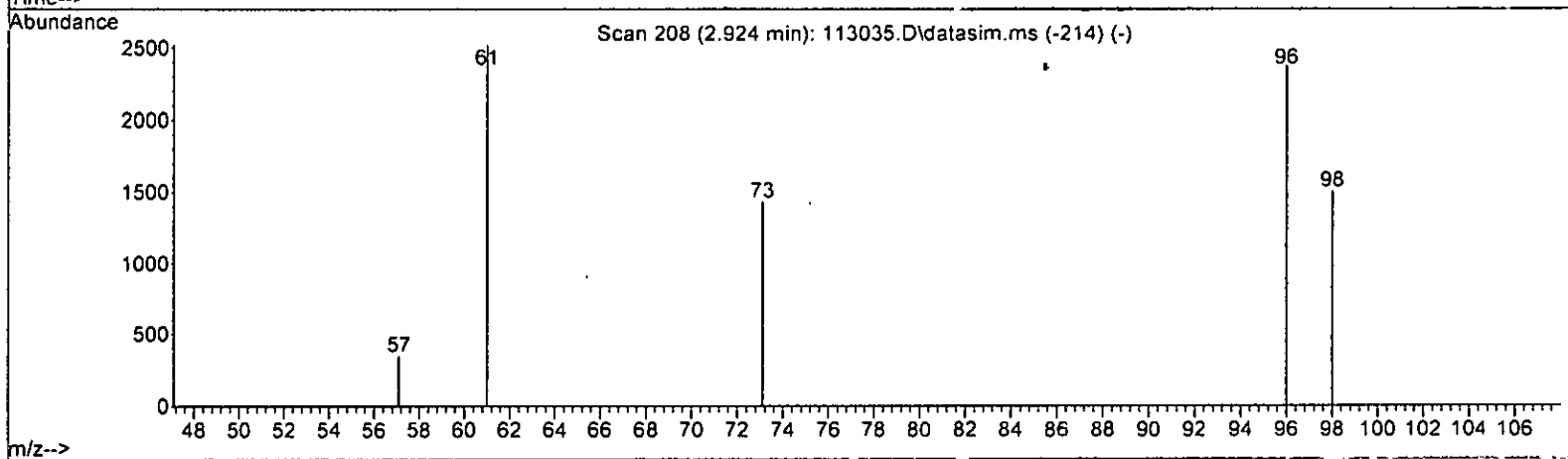
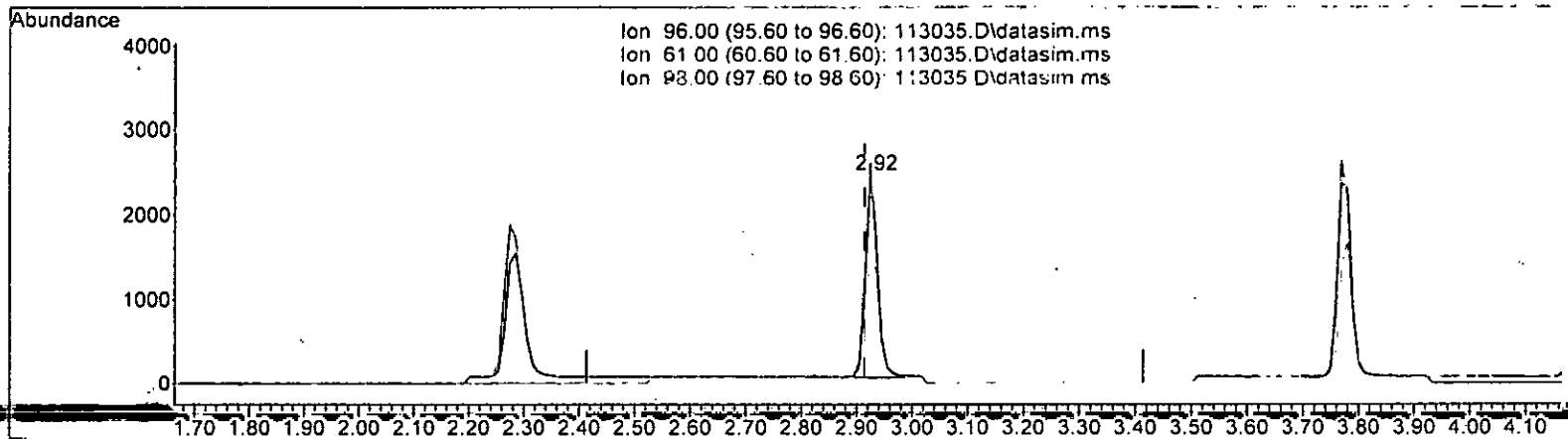
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	105.65
98.00	62.70	64.12
0.00	0.00	0.00

*W 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)  
 2.924min (+ 0.010) 1.011 ppb m

response 3671

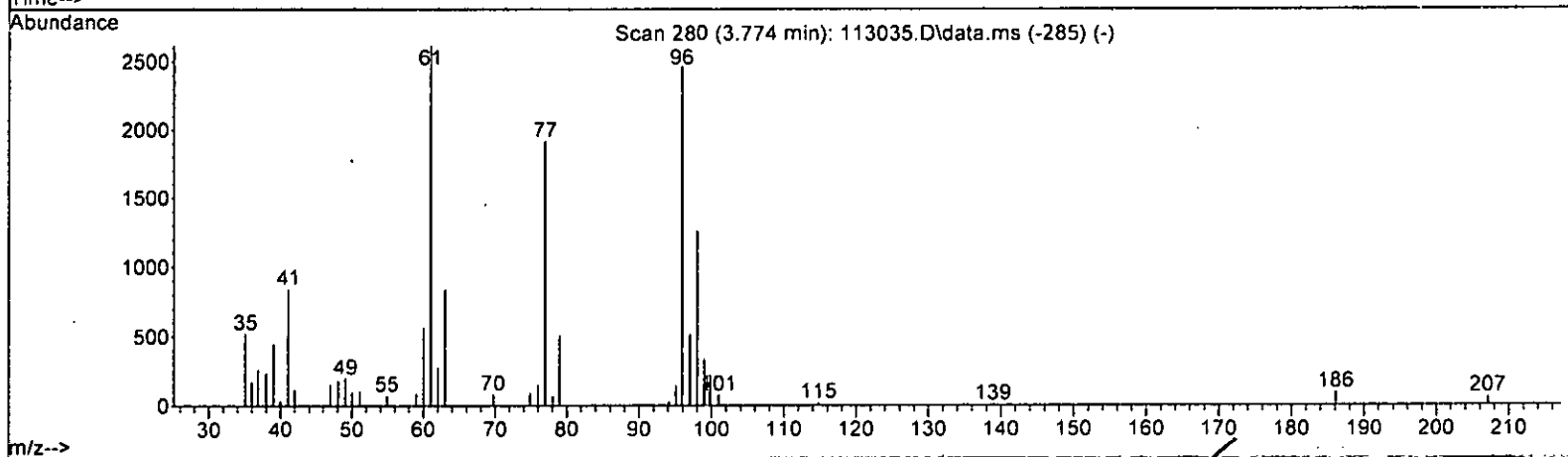
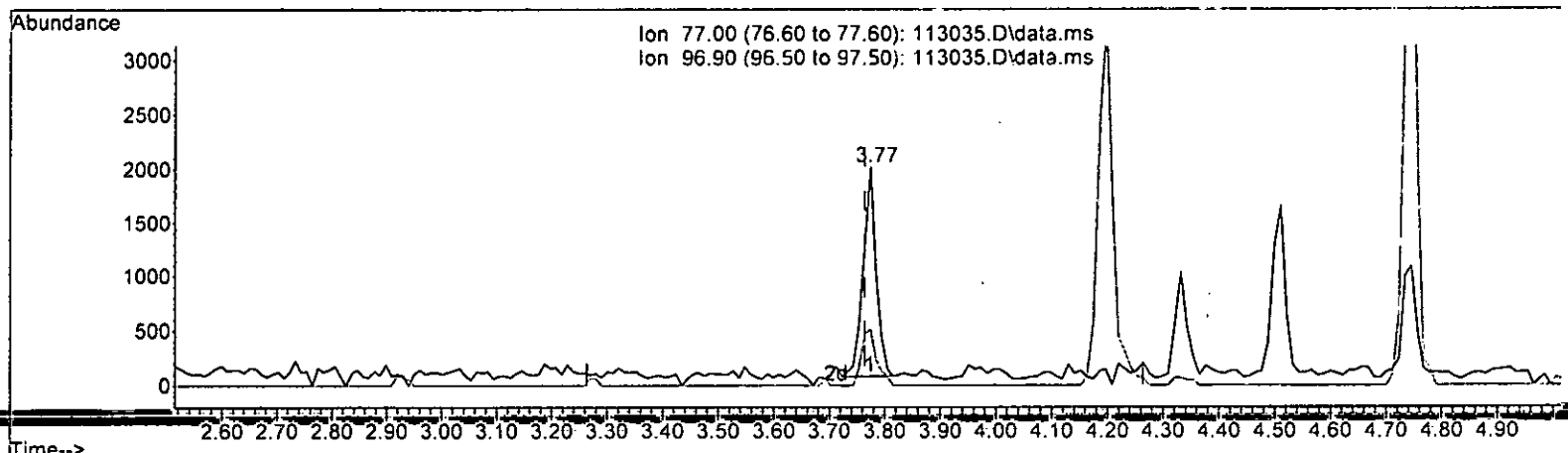
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	105.65
98.00	62.70	64.12
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(21) 2,2-Dichloropropane (TMP)

3.774min (+ 0.010) 0.697 ppb

response 3165

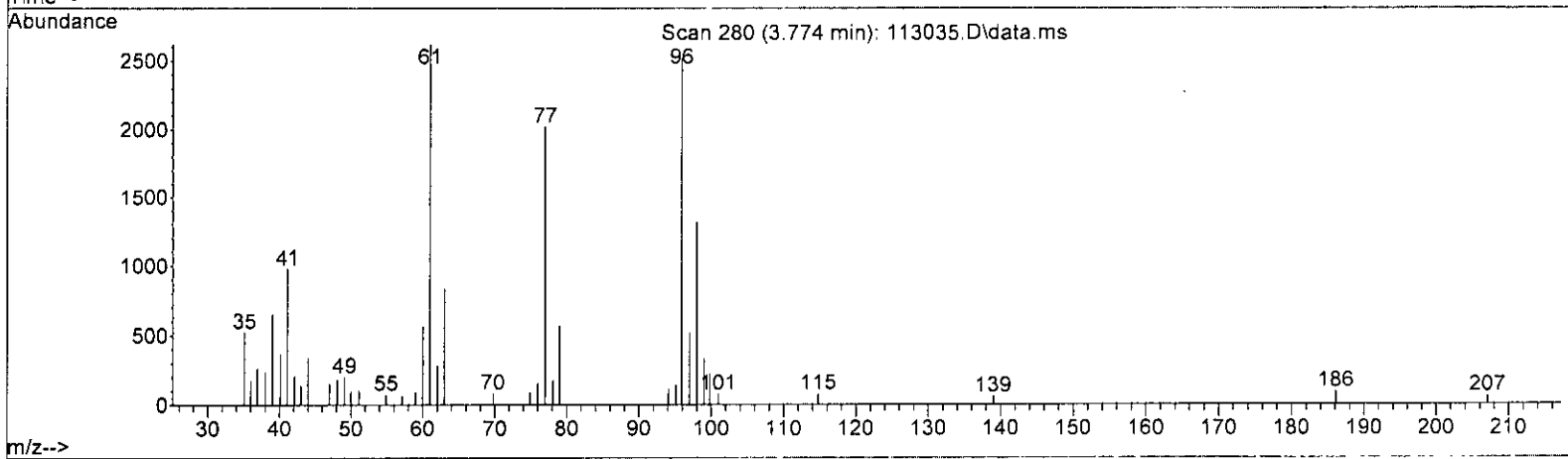
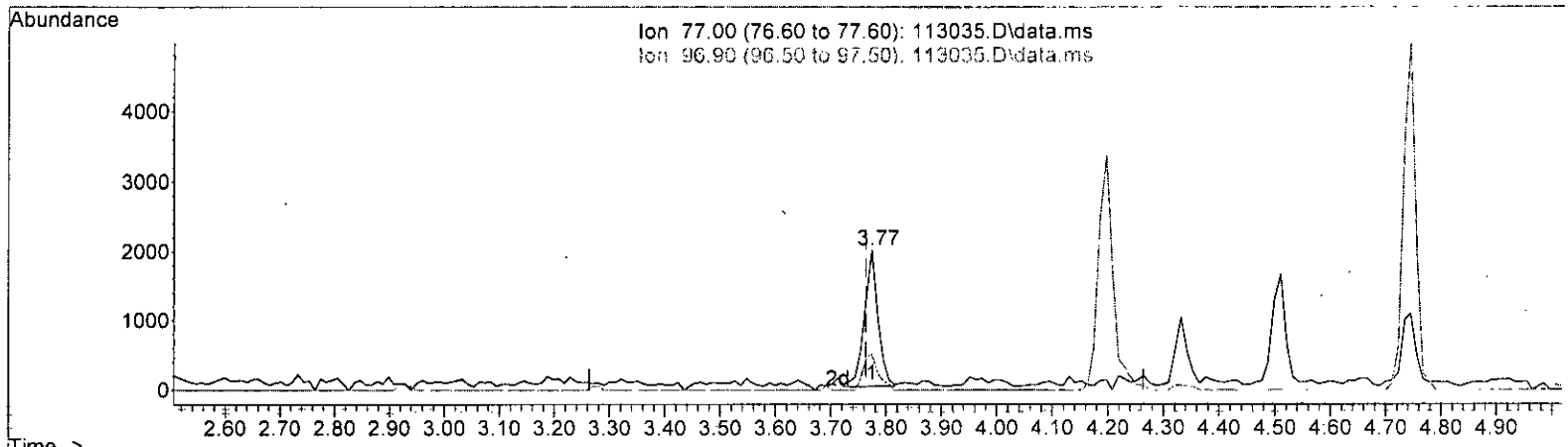
Ion	Exp%	Act%
77.00	100.00	100.00
96.90	32.00	26.44
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(21) 2,2-Dichloropropane (TMP)  
 3.774min (+ 0.010) 0.744 ppb m

response 3313

Ion	Exp%	Act%
77.00	100.00	100.00
96.90	32.00	25.31
0.00	0.00	0.00
0.00	0.00	0.00

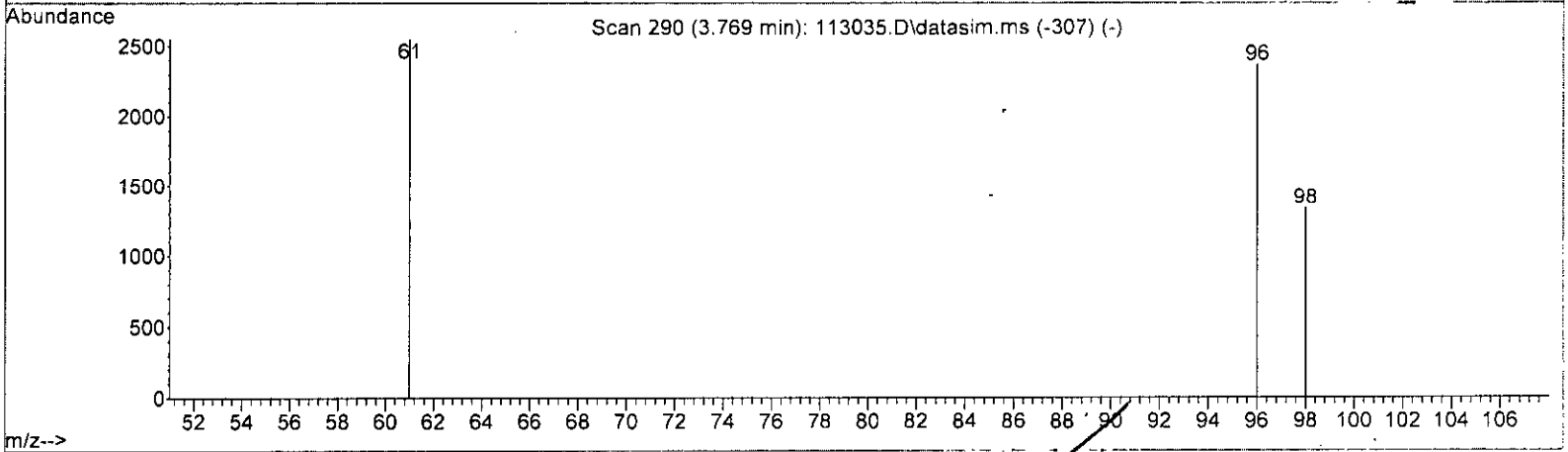
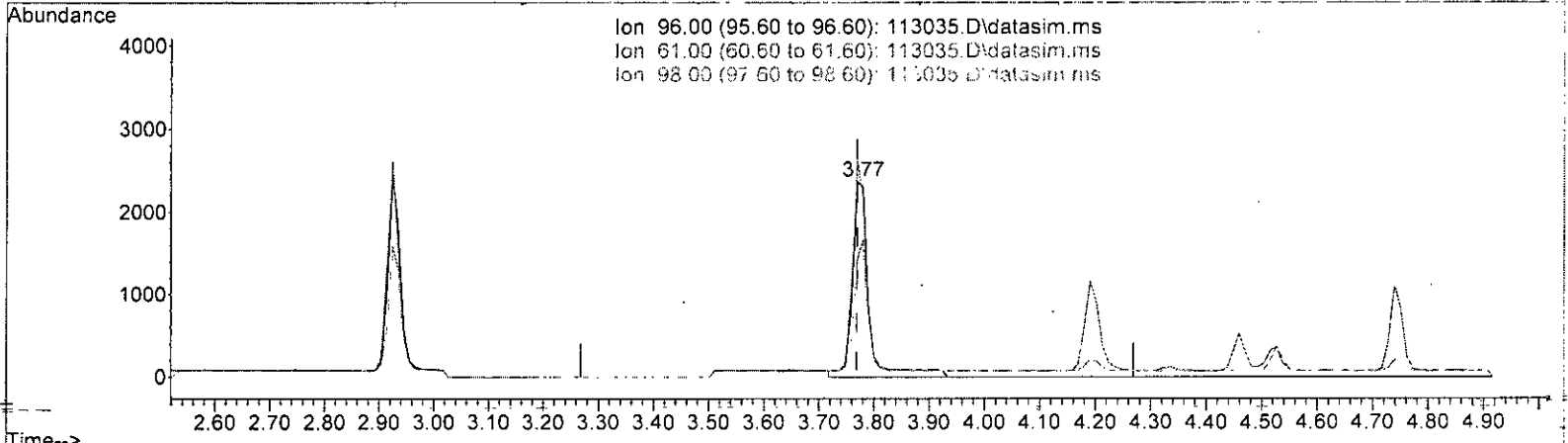
m 12.1



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(22) cis-1,2-Dichloroethene (TMP)

3.769min (-0.000) 1.256 ppb

response 4924

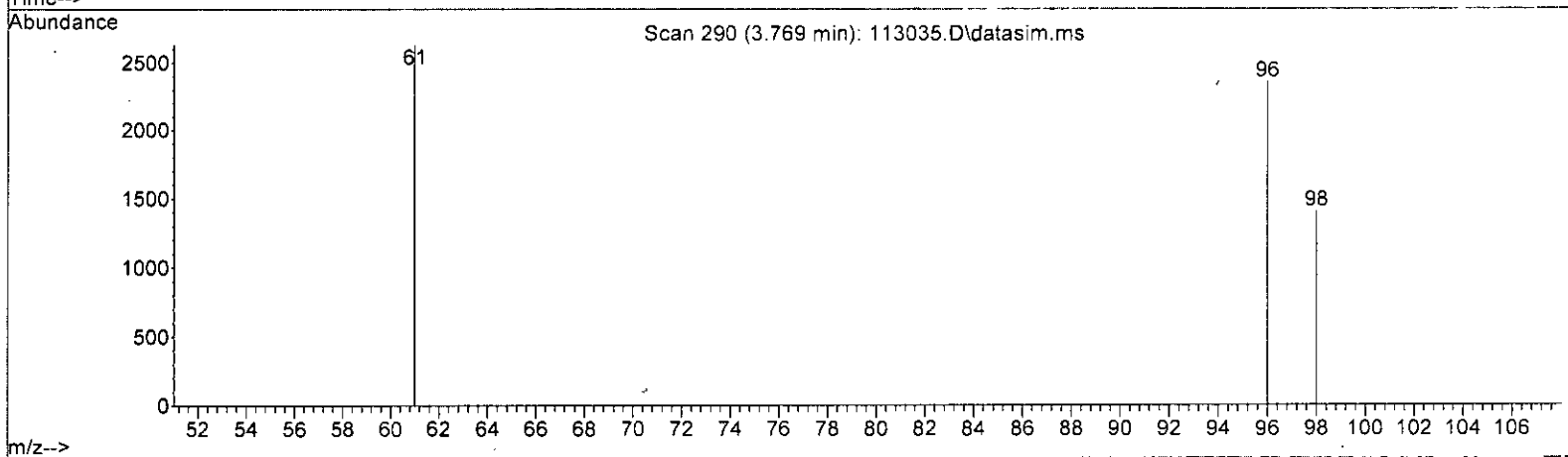
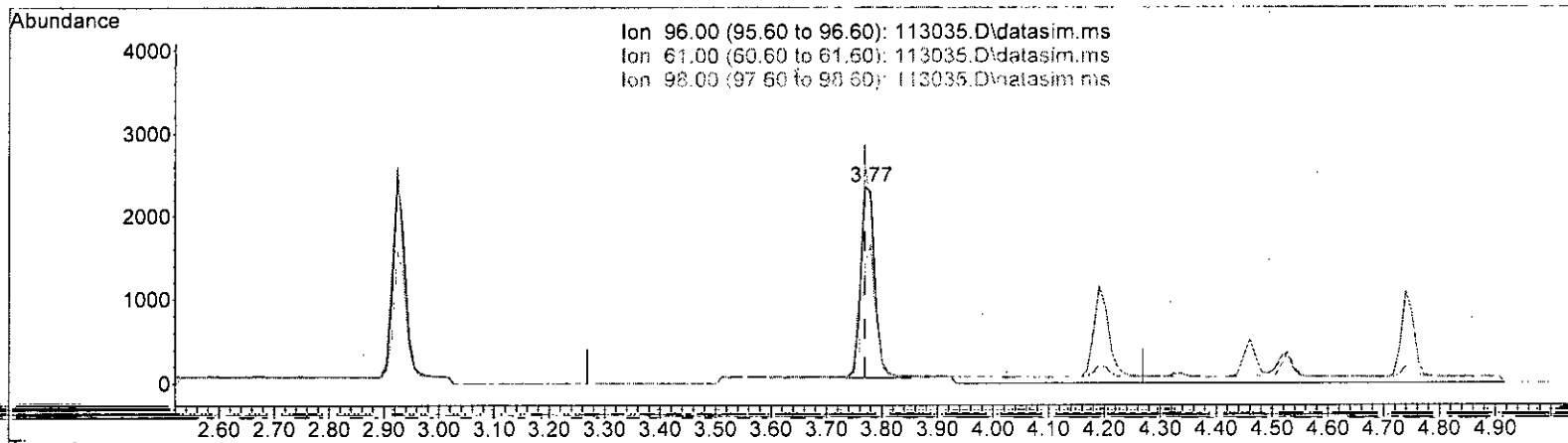
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	97.00	108.09
98.00	68.10	56.80
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113035.D\data.ms

(22) cis-1,2-Dichloroethene (TMP) *m 12.1*

3.769min (-0.000) 1.022 ppb m

response	4007
Ion	Exp% Act%
96.00	100.00 100.00
61.00	97.00 111.35
98.00	68.10 59.68
0.00	0.00 0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	100	0.01
3 S Dibromofluoromethane	10.000	9.993	0.1	100	0.00
4 TMP Dichlorodifluoromethane	1.000	0.908	9.2	100	0.00
5 TMP Chloromethane	1.000	1.050	-5.0	100	0.02
6 TMP Vinyl chloride	1.000	1.016	-1.6	111	0.02
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.57#
8 TMP Chloroethane	1.000	0.983	1.7	100	0.00
9 TMP Trichlorofluoromethane	1.000	0.953	4.7	100	0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.01
11 TMP Acetone	5.000	6.397	-27.9#	100	0.02
12 TMP 1,1-Dichloroethene	1.000	0.978	2.2	101	0.02
13 TMP Hexane	1.000	0.987	1.3	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.68#
15 TMP t-Butyl alcohol (TBA)	5.000	6.000	-20.0	100	0.02
16 TMP Methyl t-butyl ether (MTBE)	1.000	1.017	-1.7	101	0.02
17 TMP trans-1,2-Dichloroethene	1.000	1.011	-1.1	100	0.01
18 TMP Diisopropyl ether (DIPE)	1.000	0.974	2.6	100	0.00
19 TMP 1,1-Dichloroethane	1.000	1.020	-2.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	1.000	0.987	1.3	100	0.00
21 TMP 2,2-Dichloropropane	1.000	0.744	25.6#	105	0.01
22 TMP cis-1,2-Dichloroethene	1.000	1.022	-2.2	101	0.00
23 TMP Chloroform	1.000	0.999	0.1	100	0.00
24 TMP 2-Butanone (MEK)	5.000	4.929	1.4	100	0.01
25 TMP t-Amyl methyl ether (TAME)	1.000	1.011	-1.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	1.000	1.069	-6.9	100	0.01
27 TMP 1,1,1-Trichloroethane	1.000	1.011	-1.1	100	0.00
28 TMP 1,1-Dichloropropene	1.000	1.060	-6.0	100	0.00
29 TMP Carbon tetrachloride	1.000	0.972	2.8	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.708	2.9	100	0.00
31 TMP Benzene	1.000	1.067	-6.7	100	0.00
32 TMP Trichloroethene	1.000	1.116	-11.6	107	0.00
33 TMP 1,2-Dichloropropane	1.000	0.950	5.0	100	0.00
34 TMP Bromodichloromethane	1.000	0.970	3.0	100	0.00
35 S Toluene-d8	10.000	9.534	4.7	100	0.00
36 TMP Dibromomethane	1.000	1.038	-3.8	100	0.01
37 TMP 4-Methyl-2-pentanone	5.000	4.373	12.5	100	0.01
38 TMP cis-1,3-Dichloropropene	1.000	1.021	-2.1	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	1.000	1.053	-5.3	100	0.00
41 TMP trans-1,3-Dichloropropene	1.000	1.007	-0.7	100	0.00
42 TMP 1,1,2-Trichloroethane	1.000	1.049	-4.9	100	0.00
43 TMP 2-Hexanone	5.000	5.569	-11.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	1.000	1.074	-7.4	100	0.01
45 TMP Tetrachloroethene	1.000	1.036	-3.6	100	0.00
46 TMP Dibromochloromethane	1.000	1.042	-4.2	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	1.000	1.078	-7.8	100	0.01
48 TMP Chlorobenzene	1.000	1.017	-1.7	100	0.00
49 TMP Ethylbenzene	1.000	1.080	-8.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	1.000	0.996	0.4	100	0.00
51 TMP m,p-Xylene	2.000	2.173	-8.7	100	0.00
52 TMP o-Xylene	1.000	1.075	-7.5	100	0.00
53 TMP Styrene	1.000	1.068	-6.8	100	0.00
54 TMP Isopropylbenzene	1.000	1.056	-5.6	100	0.00
55 TMP Bromoform	1.000	0.998	0.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.101	-1.0	100	0.00
58 TMP n-Propylbenzene	1.000	1.095	-9.5	100	0.00
59 TMP Bromobenzene	1.000	1.067	-6.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.000	1.046	-4.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	1.000	1.120	-12.0	100	0.00
62 TMP 1,2,3-Trichloropropane	1.000	1.022	-2.2	100	0.00
63 TMP 2-Chlorotoluene	1.000	1.095	-9.5	100	0.00
64 TMP 4-Chlorotoluene	1.000	1.067	-6.7	100	0.00
65 TMP tert-Butylbenzene	1.000	1.055	-5.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.000	1.035	-3.5	100	0.00
67 TMP sec-Butylbenzene	1.000	1.029	-2.9	100	0.00
68 TMP p-Isopropyltoluene	1.000	1.022	-2.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.000	1.072	-7.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.000	1.030	-3.0	100	0.00
71 TMP 1,2-Dichlorobenzene	1.000	1.075	-7.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	1.000	1.092	-9.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	1.000	1.008	-0.8	100	0.00
74 TMP Hexachlorobutadiene	1.000	1.005	-0.5	100	0.00
75 TMP Naphthalene	1.000	0.976	2.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	1.000	1.044	-4.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.01
3 S Dibromofluoromethane	0.319	0.318	0.3	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.529	9.1	100	0.00
5 TMP Chloromethane	0.386	0.405	-4.9	100	0.02
6 TMP Vinyl chloride	0.373	0.379	-1.6	111	0.02
7 TMP Bromomethane	0.385	0.000#	100.0#	0#	-1.57#
8 TMP Chloroethane	0.200	0.196	2.0	100	0.00
9 TMP Trichlorofluoromethane	1.015	0.968	4.6	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.01
11 TMP Acetone	0.022	0.023	-4.5	100	0.02
12 TMP 1,1-Dichloroethene	0.248	0.243	2.0	101	0.02
13 TMP Hexane	0.236	0.269	-14.0	100	0.00
14 TMP Methylene chloride	0.247	0.000#	100.0#	0#	-2.68#
15 TMP t-Butyl alcohol (TBA)	0.022	0.027#	-22.7#	100	0.02
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.606	-1.7	101	0.02
17 TMP trans-1,2-Dichloroethene	0.274	0.277	-1.1	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.520	2.4	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.348	-2.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.283	1.4	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.250	15.8	105	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.303	-2.4	101	0.00
23 TMP Chloroform	0.441	0.441	0.0	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.099	2.9	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.557	-1.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.331	0.9	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.473	-1.1	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.339	-5.9	100	0.00
29 TMP Carbon tetrachloride	0.497	0.483	2.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP Benzene	0.849	0.854	-0.6	100	0.00
32 TMP Trichloroethene	0.304	0.339	-11.5	107	0.00
33 TMP 1,2-Dichloropropane	0.189	0.187	1.1	100	0.00
34 TMP Bromodichloromethane	0.316	0.307	2.8	100	0.00
35 S Toluene-d8	0.899	0.857	4.7	100	0.00
36 TMP Dibromomethane	0.173	0.179	-3.5	100	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.035	12.5	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.335	-1.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.736	-2.4	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.358	-0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.207	-1.5	100	0.00
43 TMP 2-Hexanone	0.142	0.158	-11.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.363	-7.4	100	0.01
45 TMP Tetrachloroethene	0.443	0.455	-2.7	100	0.00
46 TMP Dibromochloromethane	0.425	0.443	-4.2	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.342	-2.1	100	0.01
48 TMP Chlorobenzene	0.943	0.959	-1.7	100	0.00
49 TMP Ethylbenzene	1.560	1.395	10.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.411	0.5	100	0.00
51 TMP m,p-Xylene	0.718	0.623	13.2	100	0.00
52 TMP o-Xylene	0.611	0.598	2.1	100	0.00
53 TMP Styrene	0.848	0.907	-7.0	100	0.00
54 TMP Isopropylbenzene	1.353	1.429	-5.6	100	0.00
55 TMP Bromoform	0.302	0.302	0.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	0.606	0.612	-1.0	100	0.00
58 TMP n-Propylbenzene	2.257	2.471	-9.5	100	0.00
59 TMP Bromobenzene	0.821	0.877	-6.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.921	-4.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.485#	-12.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.345#	-2.4	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.404	-9.5	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.656	-6.7	100	0.00
65 TMP tert-Butylbenzene	1.946	2.053	-5.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.045	-3.5	100	0.00
67 TMP sec-Butylbenzene	2.396	2.465	-2.9	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.452	-2.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.583	-7.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.500	-3.0	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.529	-7.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.099	-8.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.006	-0.9	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.591	-0.5	100	0.00
75 TMP Naphthalene	1.938	1.891	2.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.824	-4.4	100	0.00

(#) = Out of Range

SPCC's out = 6 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.75	96	132290	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	109564	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	67837	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	42113	9.993	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.90%	
30) 1,2-Dichloroethane-d4	4.45	102	7668	9.708	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	97.10%	
35) Toluene-d8	6.11	98	113372	9.534	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	95.30%	
57) 4-Bromofluorobenzene	8.51	95	41524	10.101	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	101.00%	
Target Compounds							
							Qvalue
2) Ethanol	2.34	45	156	No Calib			
4) Dichlorodifluoromethane	1.12	85	6995	0.908	ppb		92
5) Chloromethane	1.27	50	5360	1.050	ppb		73
6] Vinyl chloride	1.35	62	5016m	1.016	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.65	64	2598m	0.983	ppb		
9) Trichlorofluoromethane	1.84	101	12806	0.953	ppb		92
10) 2-Propanol	2.34	45	156	No Calib			
11) Acetone	2.34	58	1548	6.397	ppb	#	74
12] 1,1-Dichloroethene	2.28	96	3209m	0.978	ppb		
13) Hexane	3.16	57	3555	0.987	ppb		90
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.83	59	1770	6.000	ppb		96
16] Methyl t-butyl ether (...)	2.94	73	8013m	1.017	ppb		
17] trans-1,2-Dichloroethene	2.92	96	3671m	1.011	ppb		
18) Diisopropyl ether (DIPE)	3.35	45	6875	0.974	ppb		94
19] 1,1-Dichloroethane	3.28	63	4598	1.020	ppb		99
20) Ethyl t-butyl ether (E...)	3.66	87	3748	0.987	ppb		93
21) 2,2-Dichloropropane	3.77	77	3313m	0.744	ppb		
22] cis-1,2-Dichloroethene	3.77	96	4007m	1.022	ppb		
23) Chloroform	4.04	83	5835	0.999	ppb		94
24) 2-Butanone (MEK)	3.79	43	6556	4.929	ppb		97
25) t-Amyl methyl ether (T...)	4.61	73	7363	1.011	ppb		99
26] 1,2-Dichloroethane (EDC)	4.53	62	4374	1.069	ppb		96
27] 1,1,1-Trichloroethane	4.19	97	6260	1.011	ppb		93
28) 1,1-Dichloropropene	4.33	75	4488	1.060	ppb		88
29) Carbon tetrachloride	4.33	117	6392	0.972	ppb		97
31] Benzene	4.50	78	11304	1.067	ppb		95
32] Trichloroethene	5.05	95	4490	1.116	ppb		85
33) 1,2-Dichloropropane	5.24	63	2468	0.950	ppb		99
34) Bromodichloromethane	5.48	83	4062	0.970	ppb		97
36) Dibromomethane	5.35	93	2371	1.038	ppb		83

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

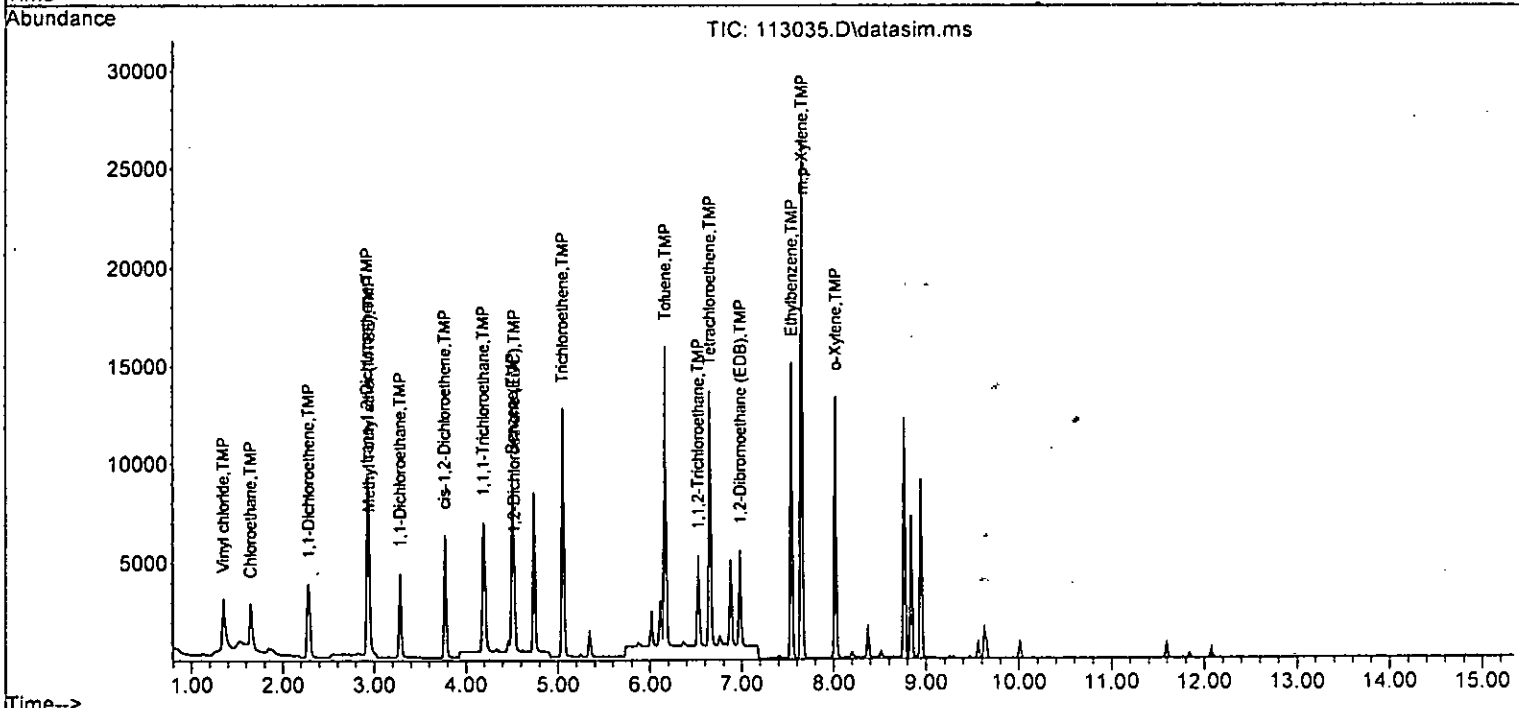
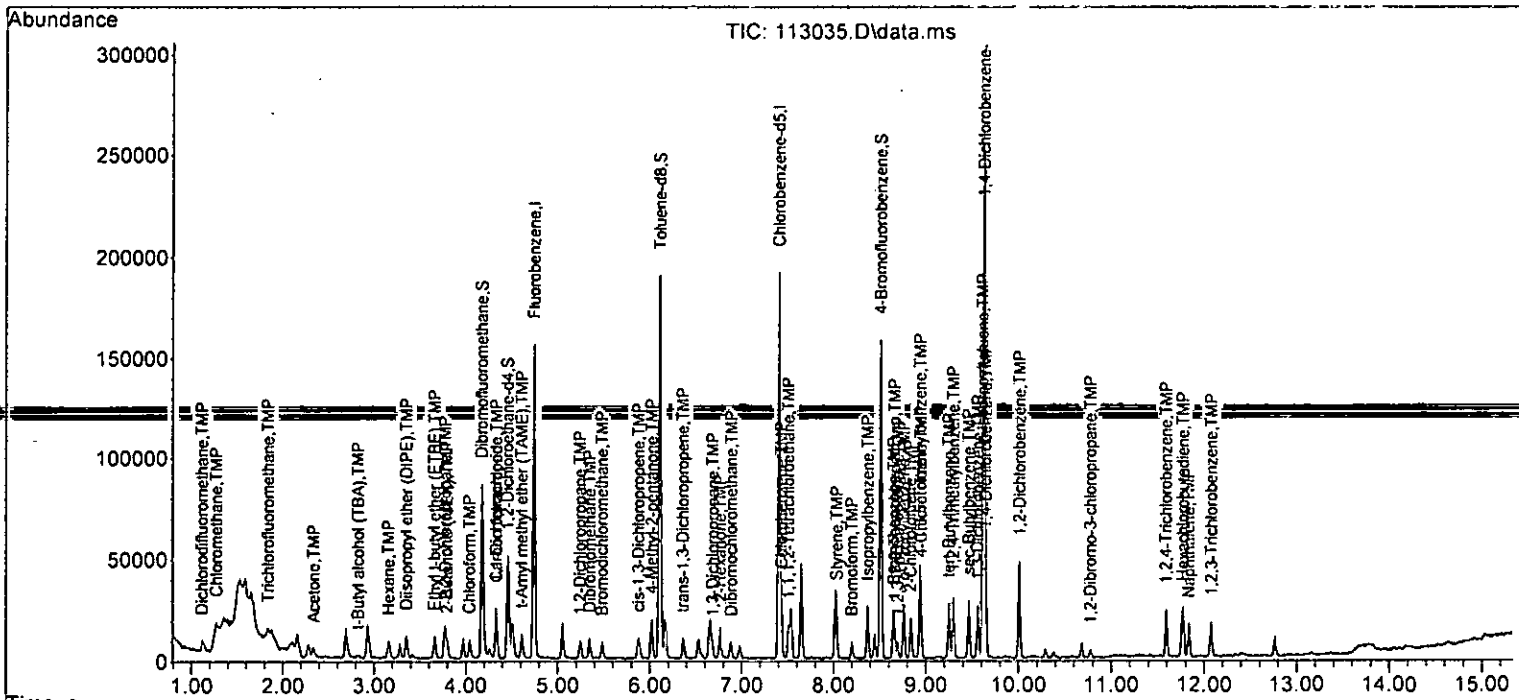
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	2296	4.373	ppb	77
38) cis-1,3-Dichloropropene	5.88	75	4436	1.021	ppb	98
40] Toluene	6.16	92	8063	1.053	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	3926	1.007	ppb	94
42] 1,1,2-Trichloroethane	6.53	83	2263	1.049	ppb	96
43) 2-Hexanone	6.76	43	8636	5.569	ppb	97
44) 1,3-Dichloropropane	6.68	76	3976	1.074	ppb	88
45] Tetrachloroethene	6.65	164	4983	1.036	ppb	97
46) Dibromochloromethane	6.88	129	4856	1.042	ppb	96
47] 1,2-Dibromoethane (ED8)	6.98	107	3744	1.078	ppb	90
48) Chlorobenzene	7.43	112	10507	1.017	ppb	96
49] Ethylbenzene	7.54	91	15288	1.080	ppb	98
<del>50) 1,1,1,2-Tetrachloroethane</del>	<del>7.51</del>	<del>131</del>	<del>4502</del>	<del>0.996</del>	<del>ppb</del>	<del>95</del>
51] m,p-Xylene	7.65	106	13643	2.173	ppb	98
52] o-Xylene	8.02	106	6554	1.075	ppb	96
53) Styrene	8.03	104	9932	1.068	ppb	97
54) Isopropylbenzene	8.37	105	15654	1.056	ppb	99
55) Bromoform	8.20	173	3307	0.998	ppb	98
58) n-Propylbenzene	8.77	91	16765	1.095	ppb	94
59) Bromobenzene	8.65	156	5947	1.067	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	13029	1.046	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.66	83	3290	1.120	ppb	96
62) 1,2,3-Trichloropropane	8.70	75	2340	1.022	ppb	95
63) 2-Chlorotoluene	8.84	91	9527	1.095	ppb	99
64) 4-Chlorotoluene	8.95	91	11232	1.067	ppb	93
65) tert-Butylbenzene	9.25	119	13928	1.055	ppb	95
66) 1,2,4-Trimethylbenzene	9.30	105	13872	1.035	ppb	99
67) sec-Butylbenzene	9.46	105	16720	1.029	ppb	99
68) p-Isopropyltoluene	9.61	119	16632	1.022	ppb	97
69) 1,3-Dichlorobenzene	9.56	146	10738	1.072	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	10175	1.030	ppb	97
71) 1,2-Dichlorobenzene	10.01	146	10372	1.075	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.77	75	671	1.092	ppb #	75
73) 1,2,4-Trichlorobenzene	11.59	180	6822	1.008	ppb	97
74) Hexachlorobutadiene	11.77	225	4006	1.005	ppb	95
75) Naphthalene	11.83	128	12829	0.976	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	5587	1.044	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113035.D  
 Acq On : 01 Dec 2022 12:39 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS13

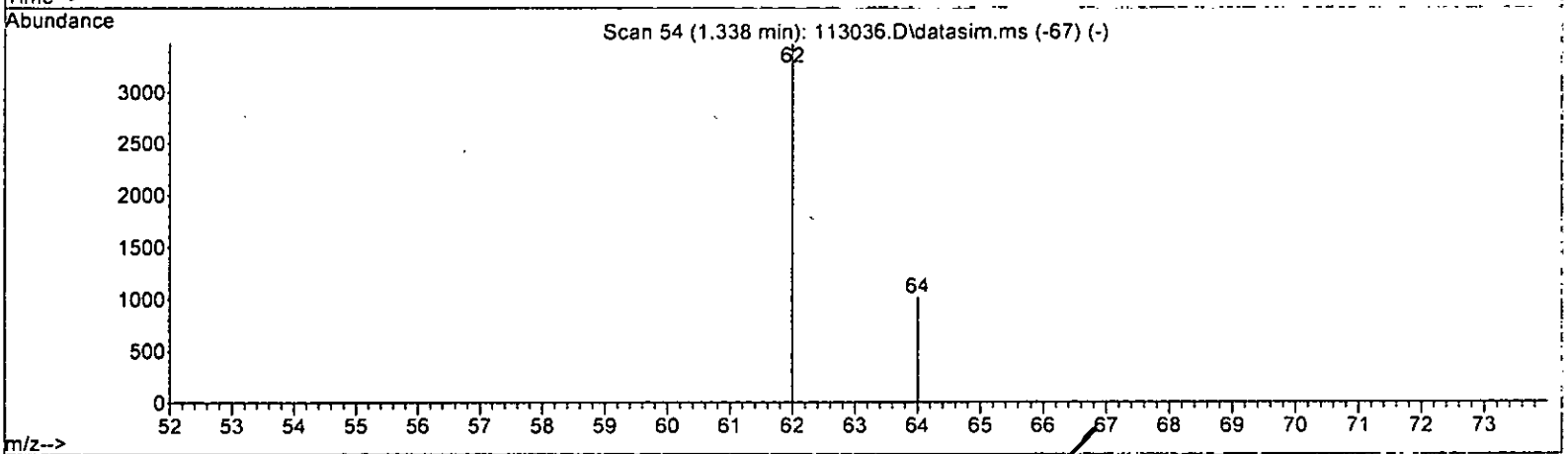
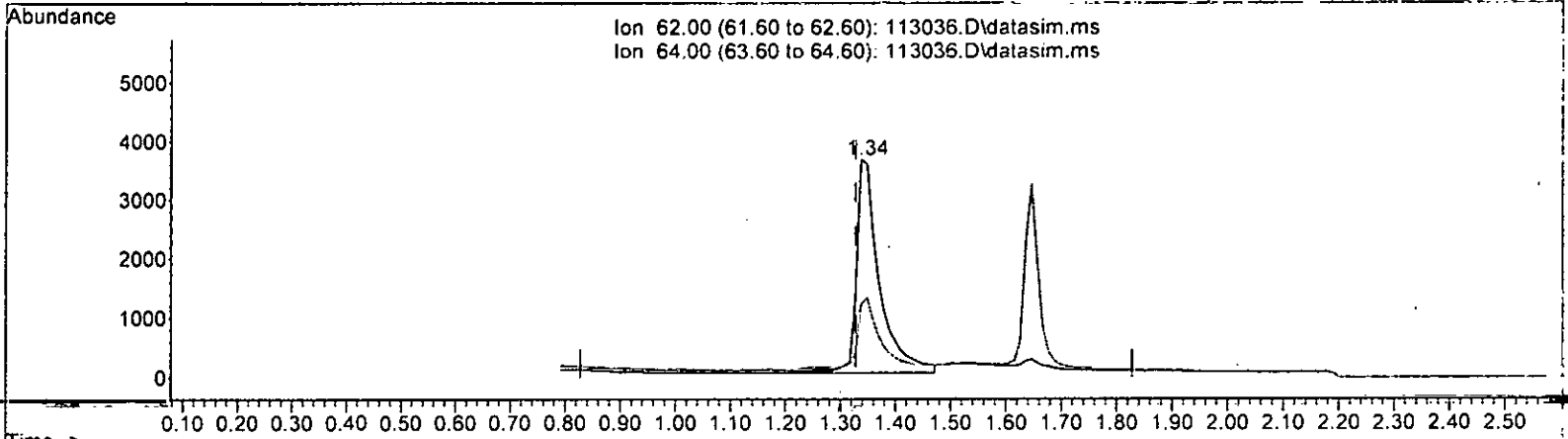
Quant Time: Dec 01 12:14:36 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

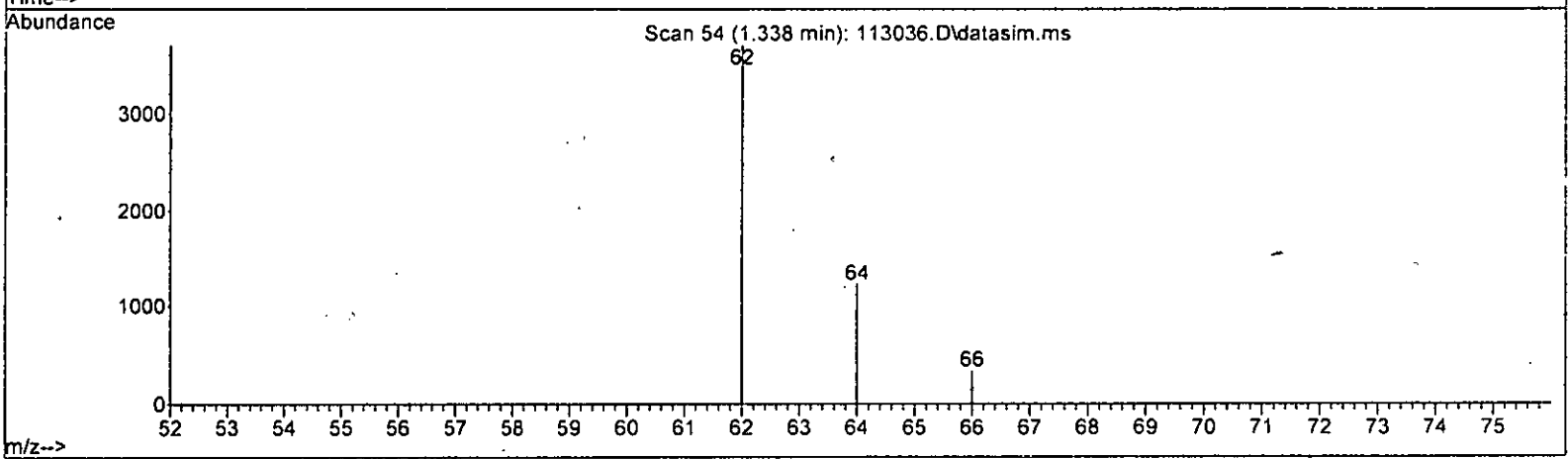
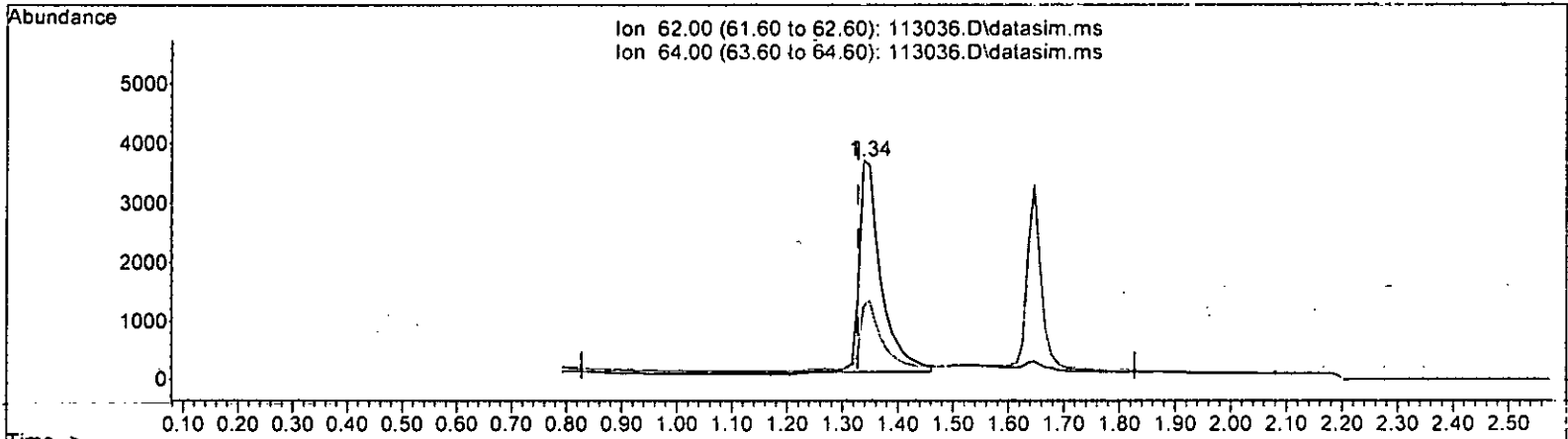
m 12.1

(6) Vinyl chloride (TMP)			
1.338min (+ 0.010) 2.081 ppb			
response	10370		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	30.20	30.61	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Oual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 1.953 ppb m

response 9729

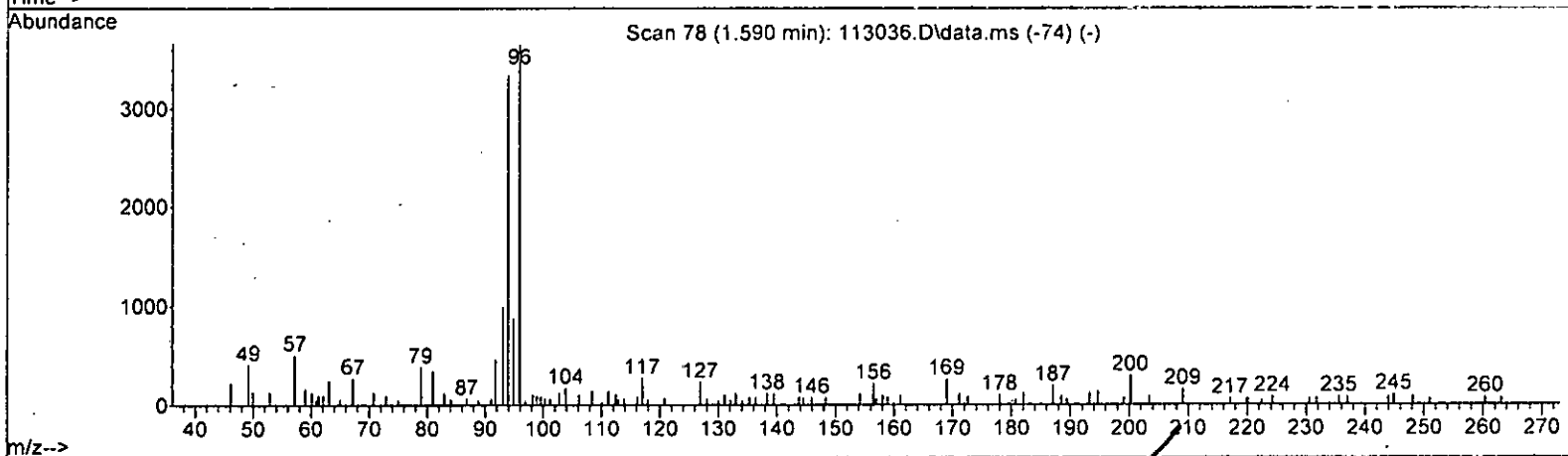
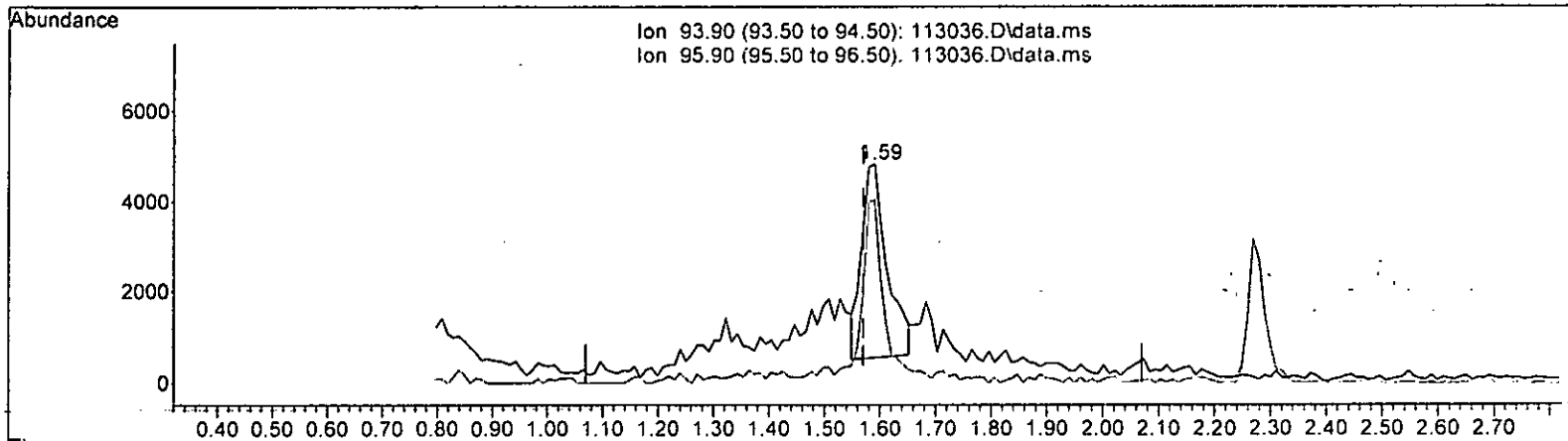
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	33.23
0.00	0.00	0.00
0.00	0.00	0.00

*m R.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(7) Bromomethane (TMP)

1.590min (+ 0.020) 2.629 ppb

response 13519

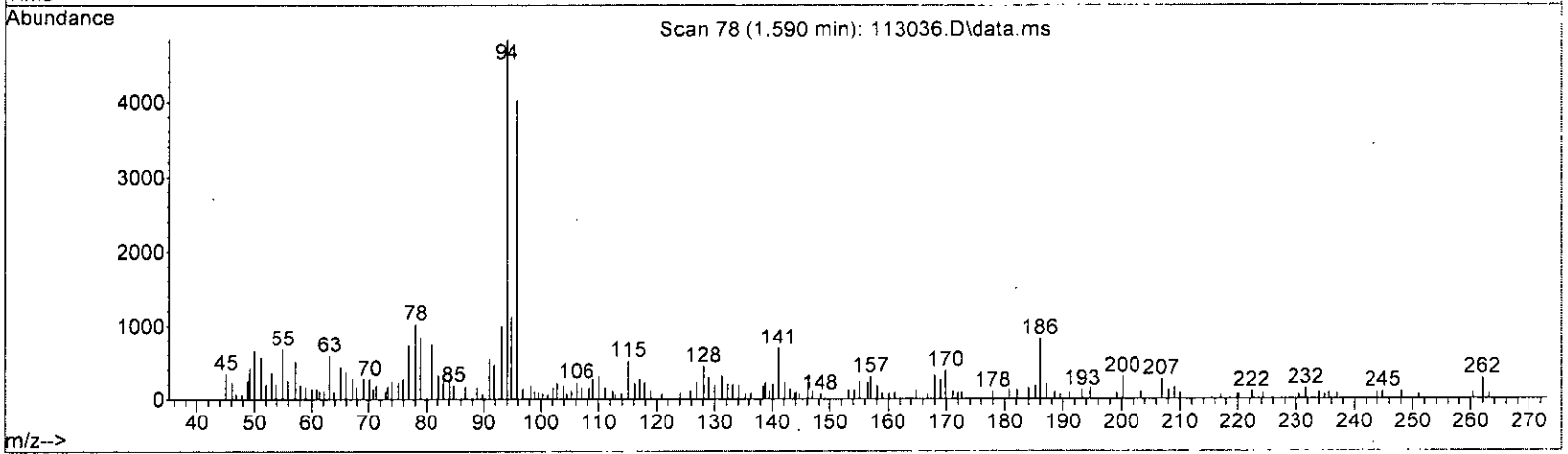
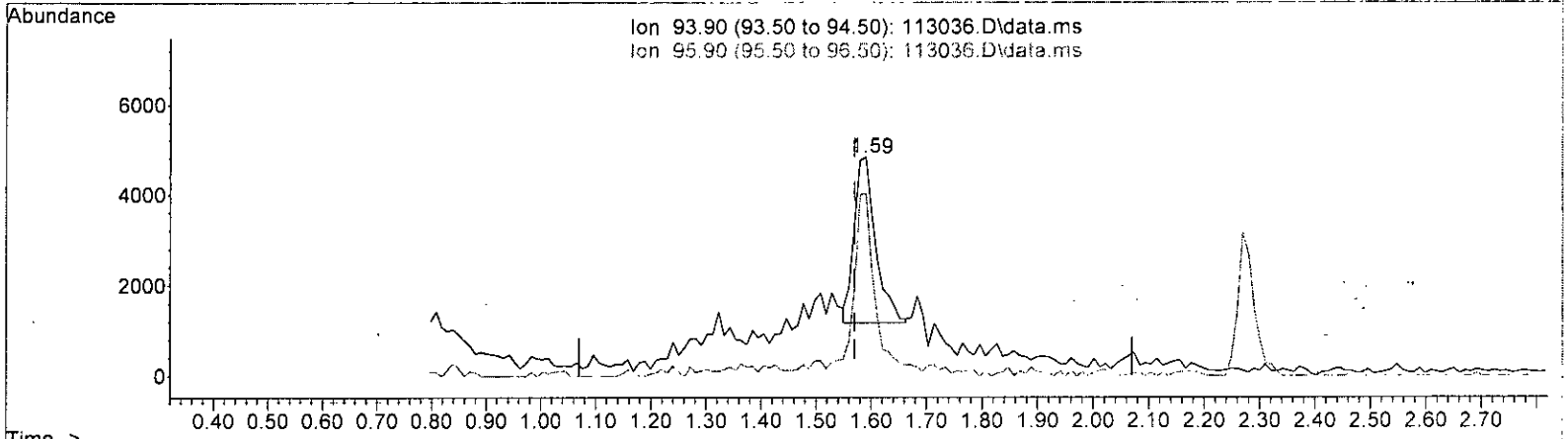
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	93.10	104.56
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(7) Bromomethane (TMP) m 12.1

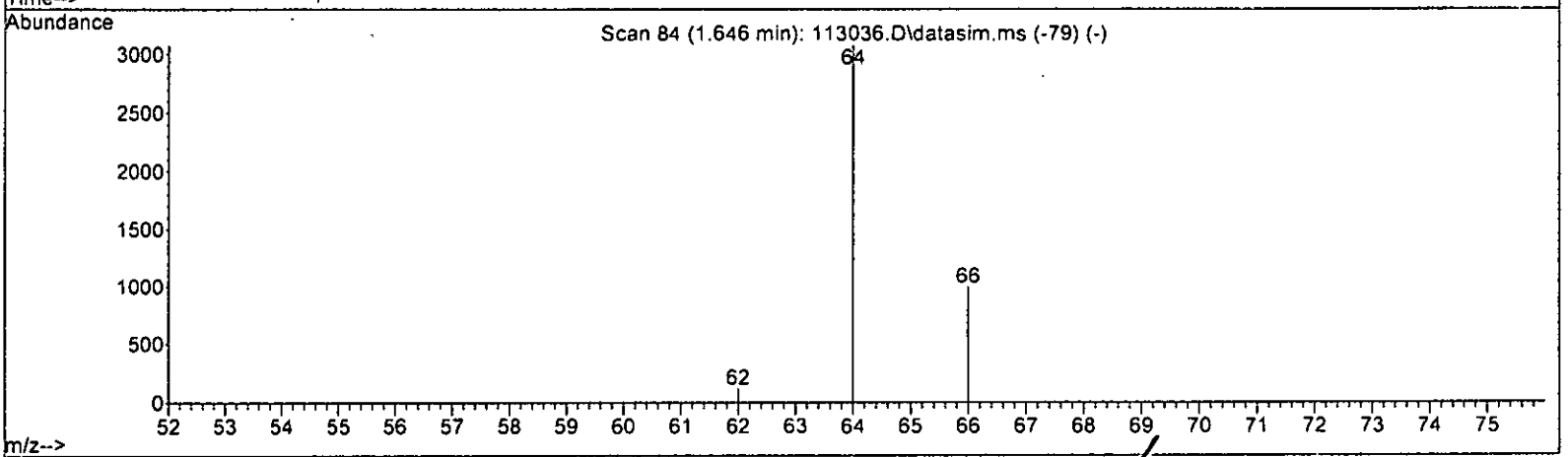
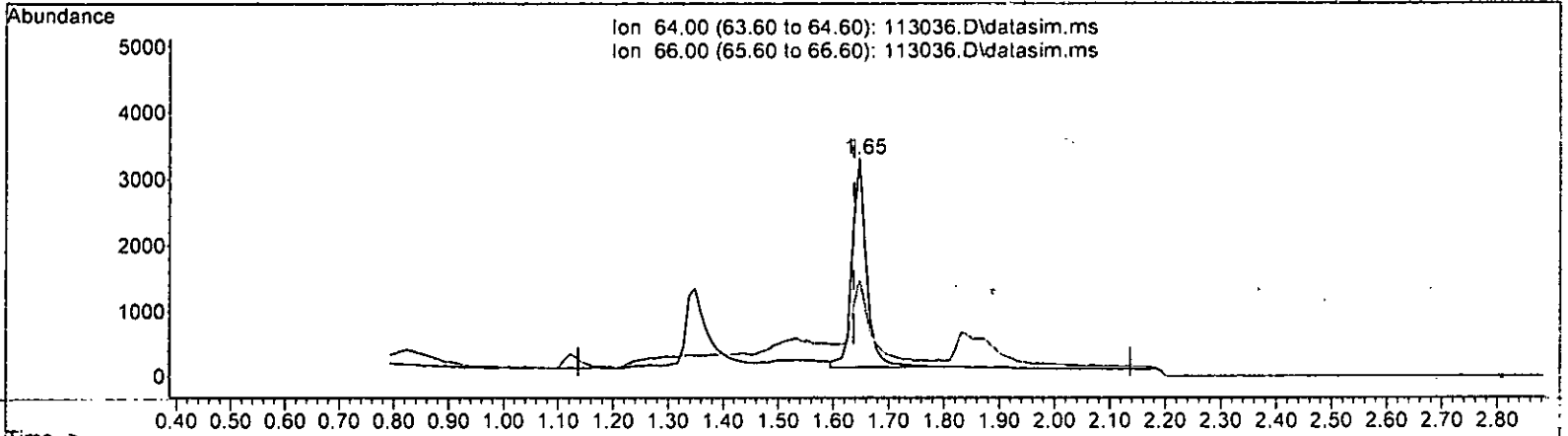
1.590min (+ 0.020) 1.905 ppb m

response	9797
Ion	Exp% Act%
93.90	100.00 100.00
95.90	93.10 83.34
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(8) Chloroethane (TMP)

1.646min (+ 0.009) 2.144 ppb

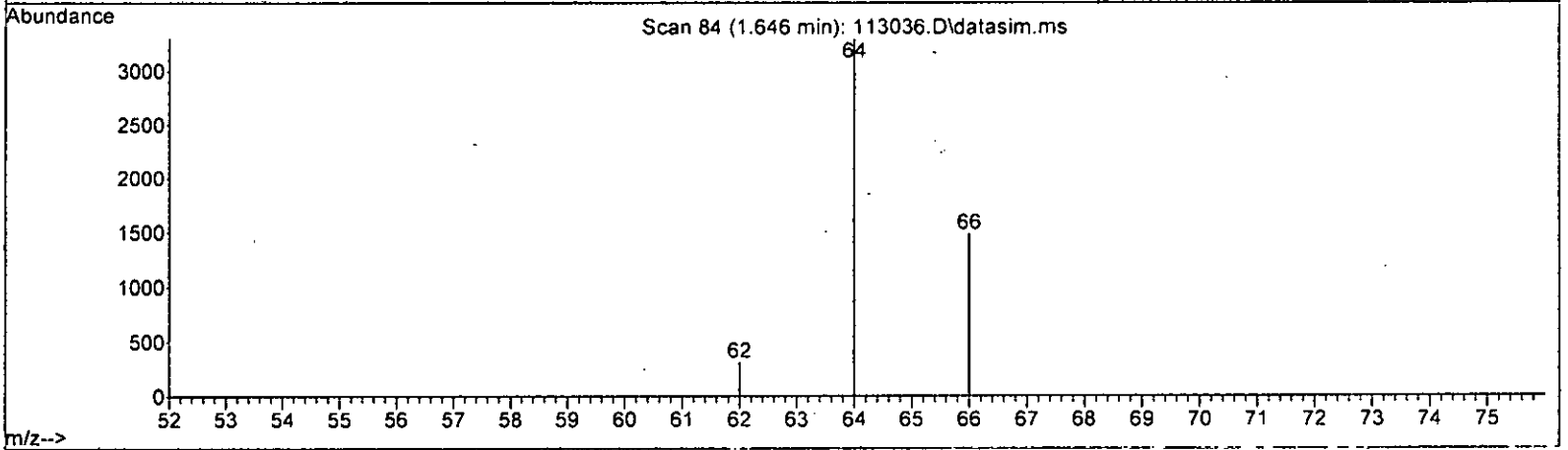
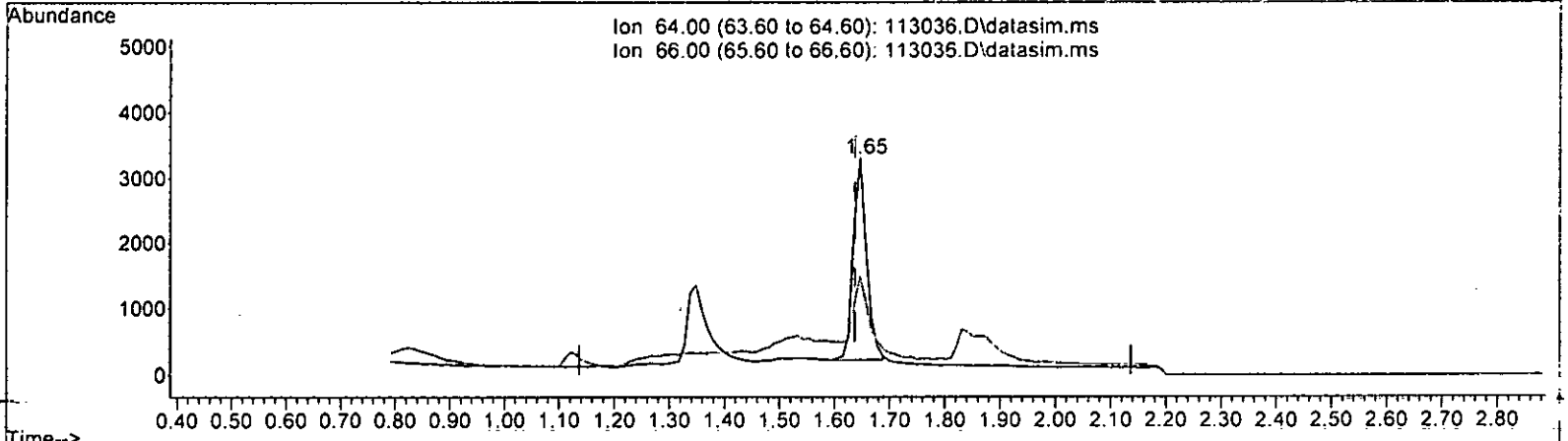
response	5718	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	36.40	39.02
0.00	0.00	0.00
0.00	0.00	0.00

*M R.1*

Quantitation Report\_(Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

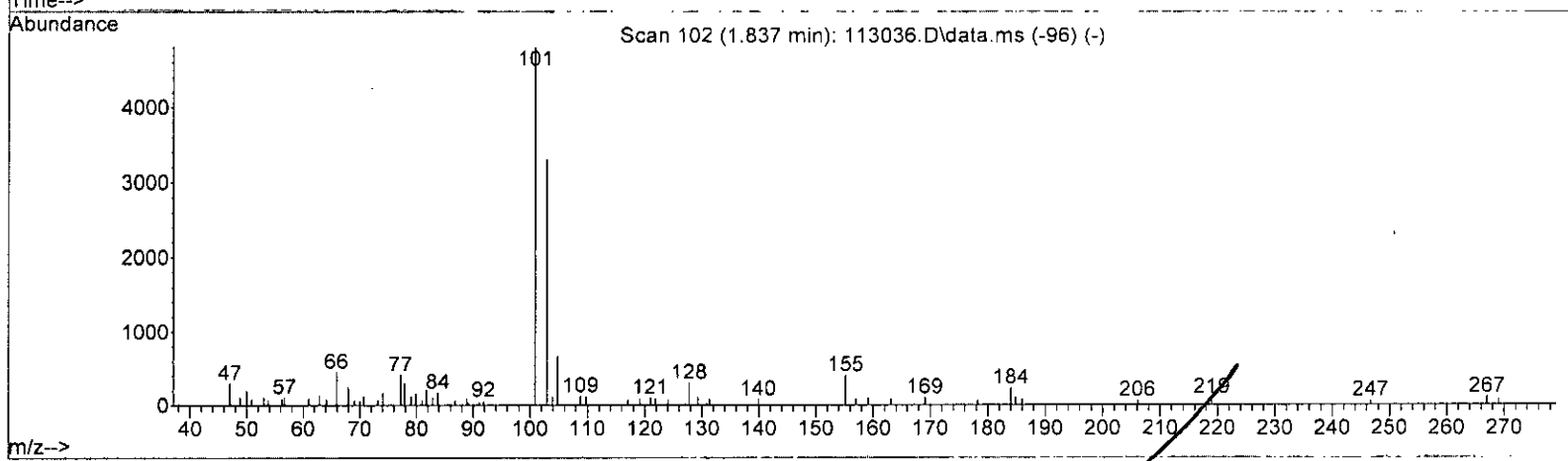
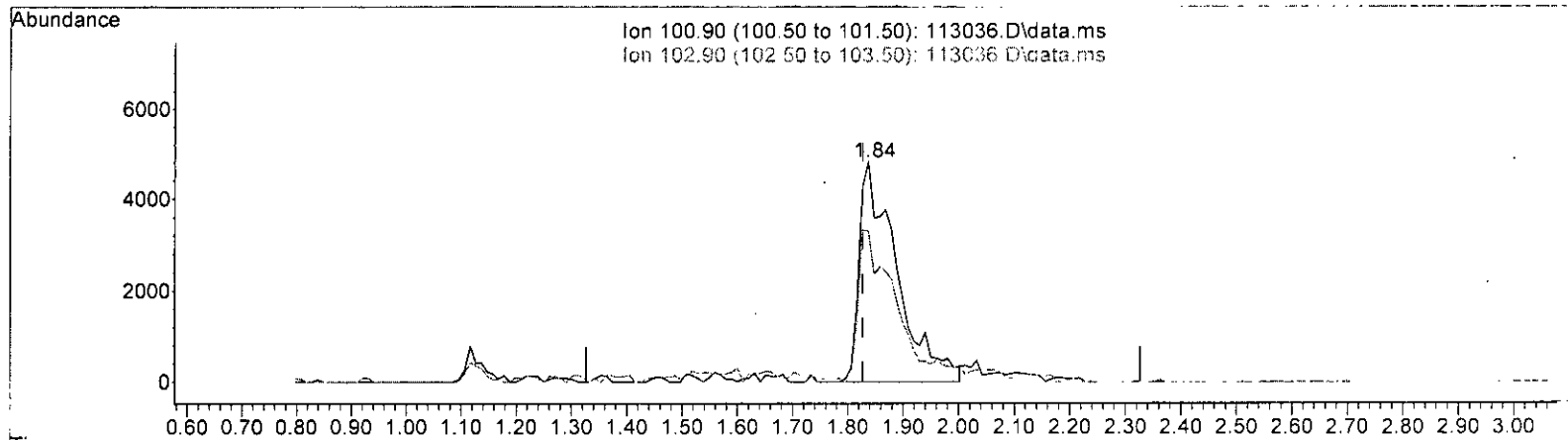
*m 12.1*

(8) Chloroethane (TMP)		
response	5053	
Ion	Exp%	Act%
1.646min (+ 0.009)	1.894 ppb m	
64.00	100.00	100.00
66.00	36.40	44.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit).

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

LM 12.1

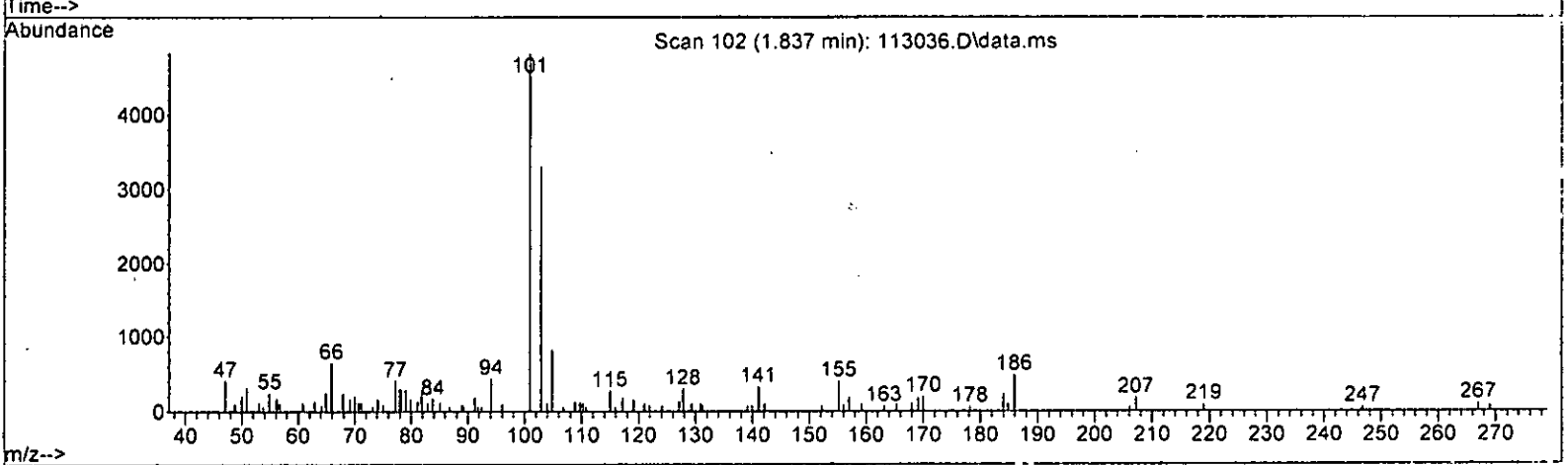
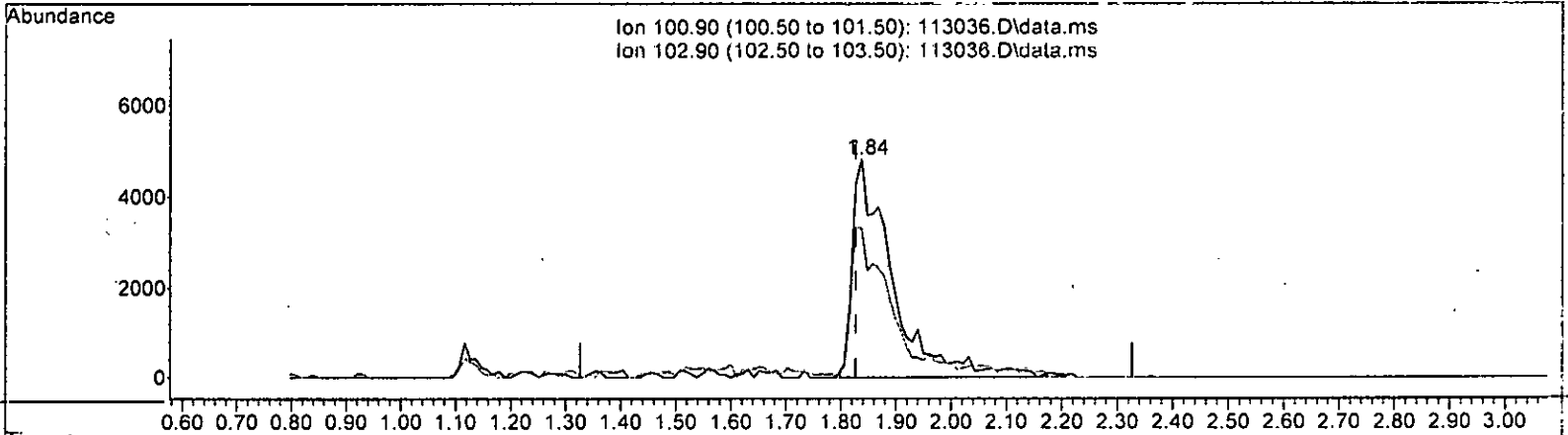
(9) Trichlorofluoromethane (TMP)		
Retention Time	Concentration	Response
1.837min (+ 0.010)	1.655 ppb	22435
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	67.50	67.30
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.837min (+ 0.010) 1.963 ppb m

response 26619

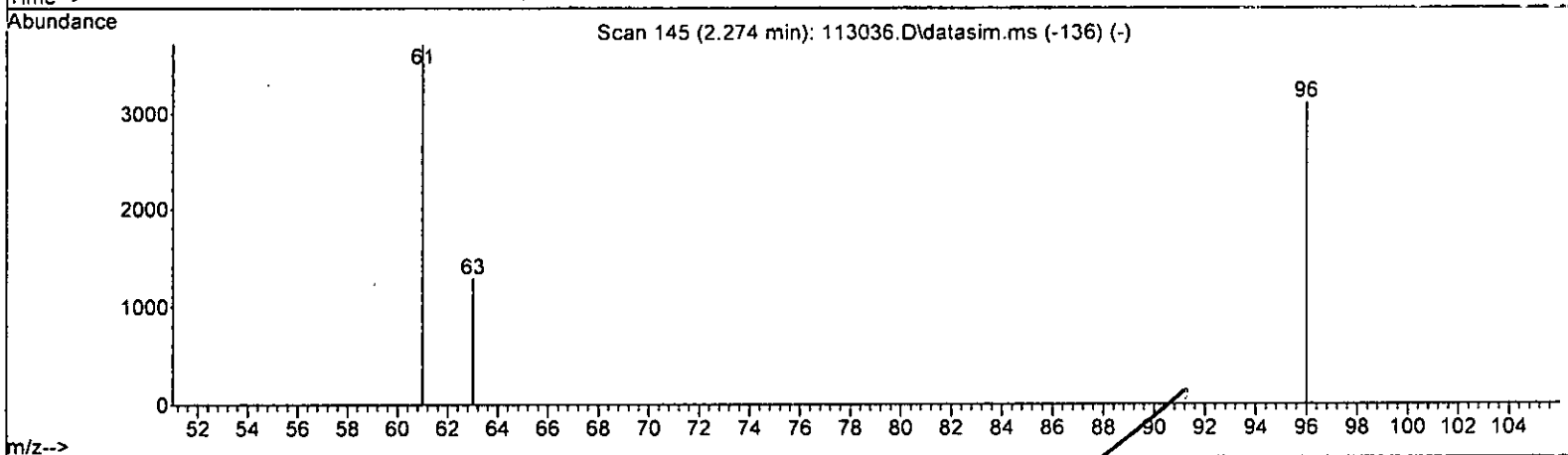
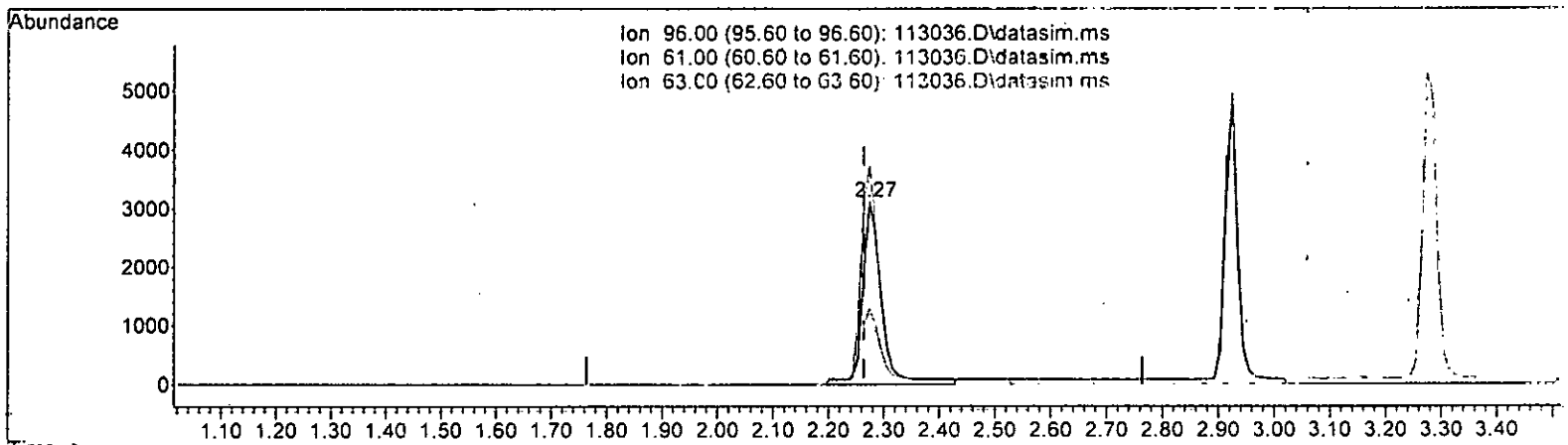
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	67.50	68.51
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.274min (+ 0.010) 2.261 ppb

response 7484

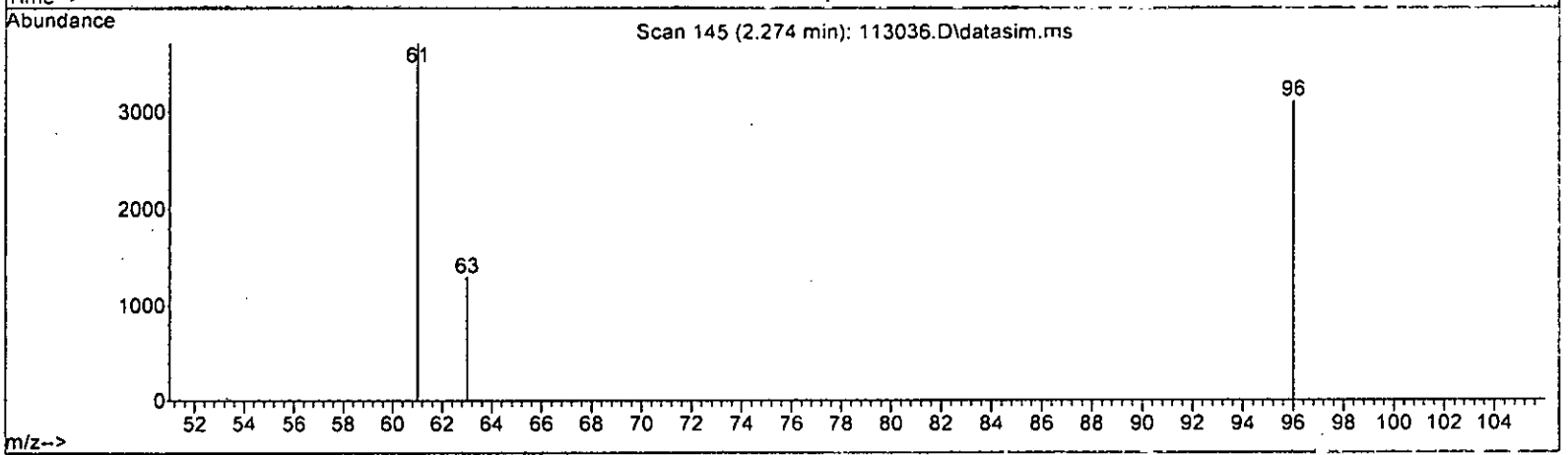
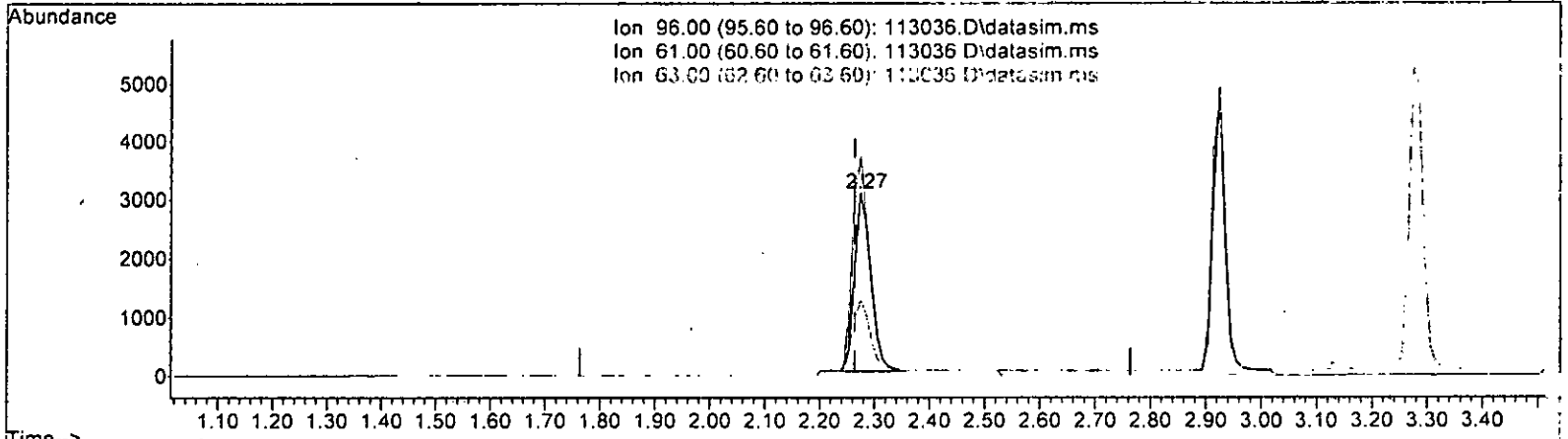
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	119.30
63.00	41.10	41.39
0.00	0.00	0.00

*M 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(12) 1,1-Dichloroethene (TMP) *m 12.1*

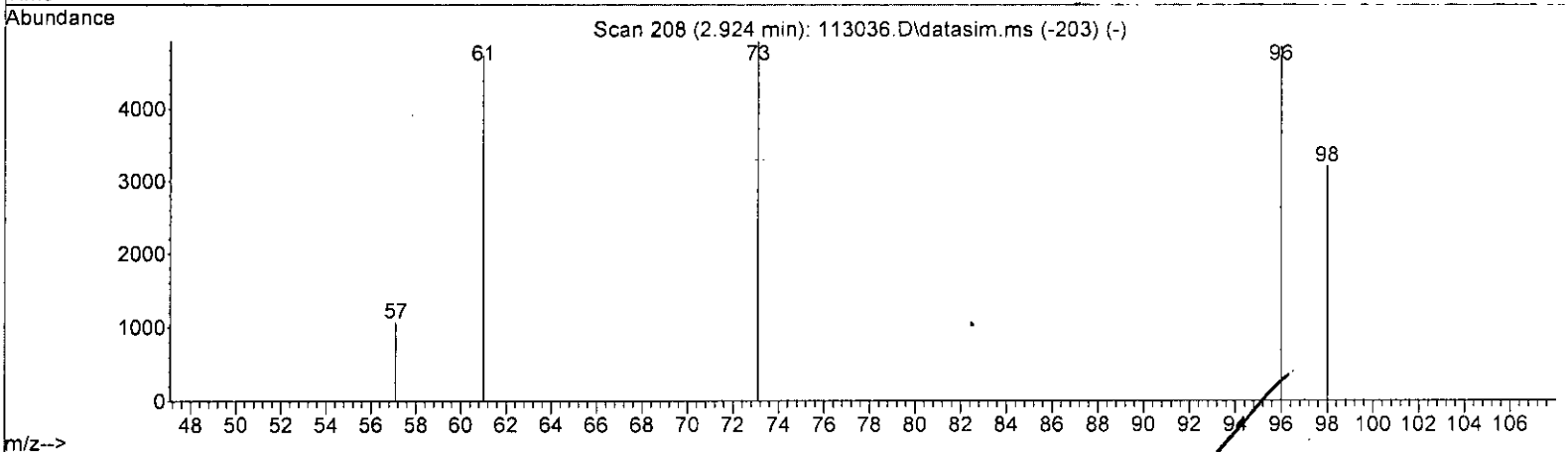
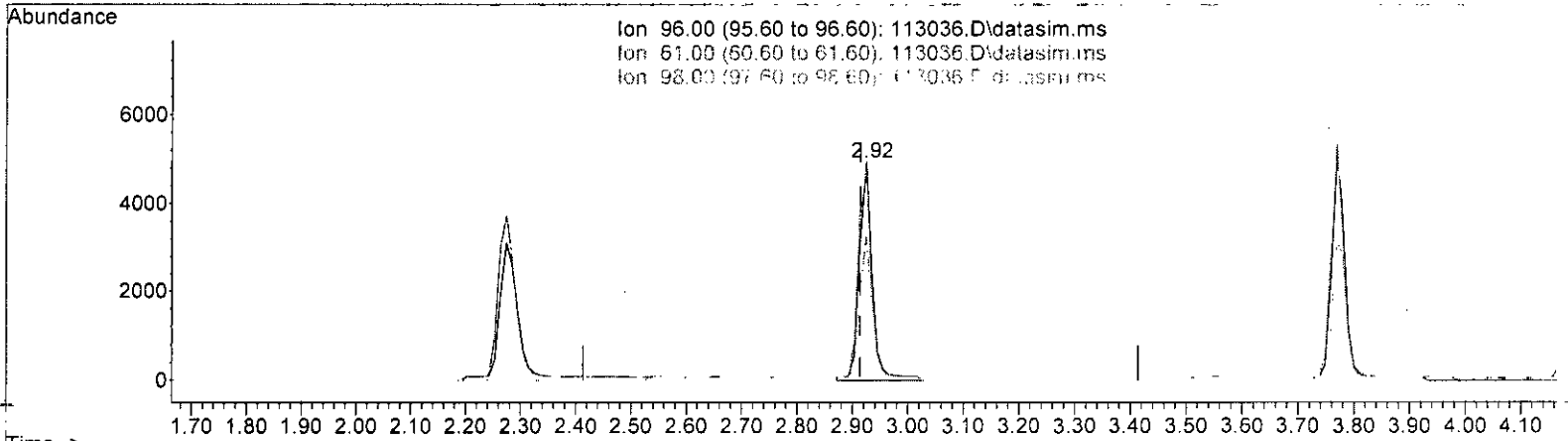
2.274min (+ 0.010) 1.922 ppb m

response	6362	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	127.10	119.30
63.00	41.10	41.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.924min (+ 0.010) 2.143 ppb

response 7852

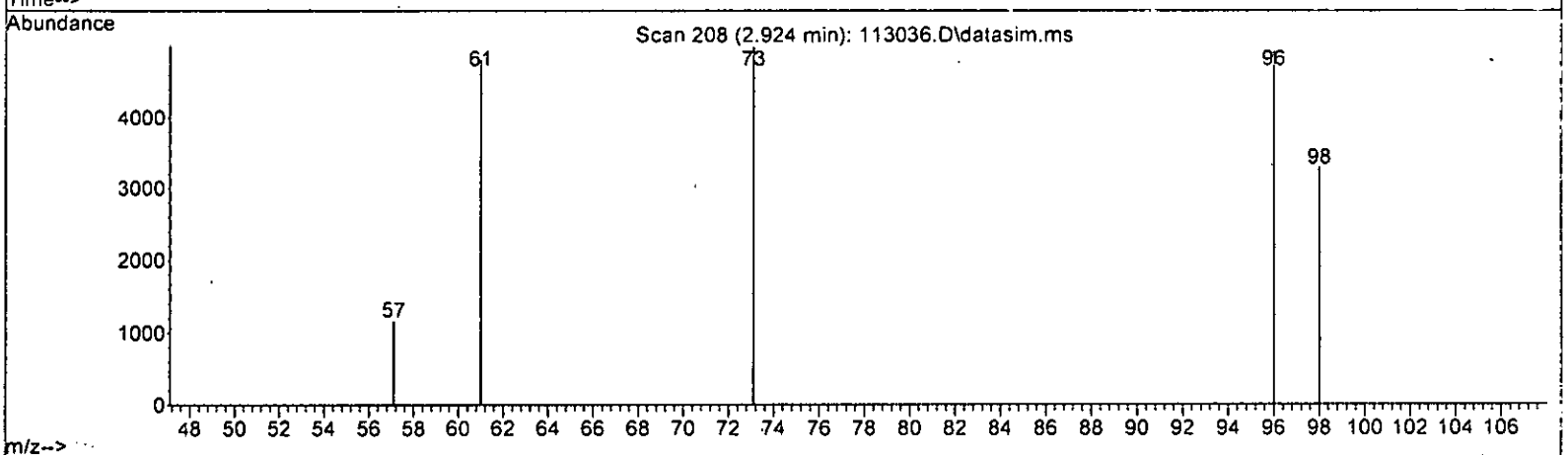
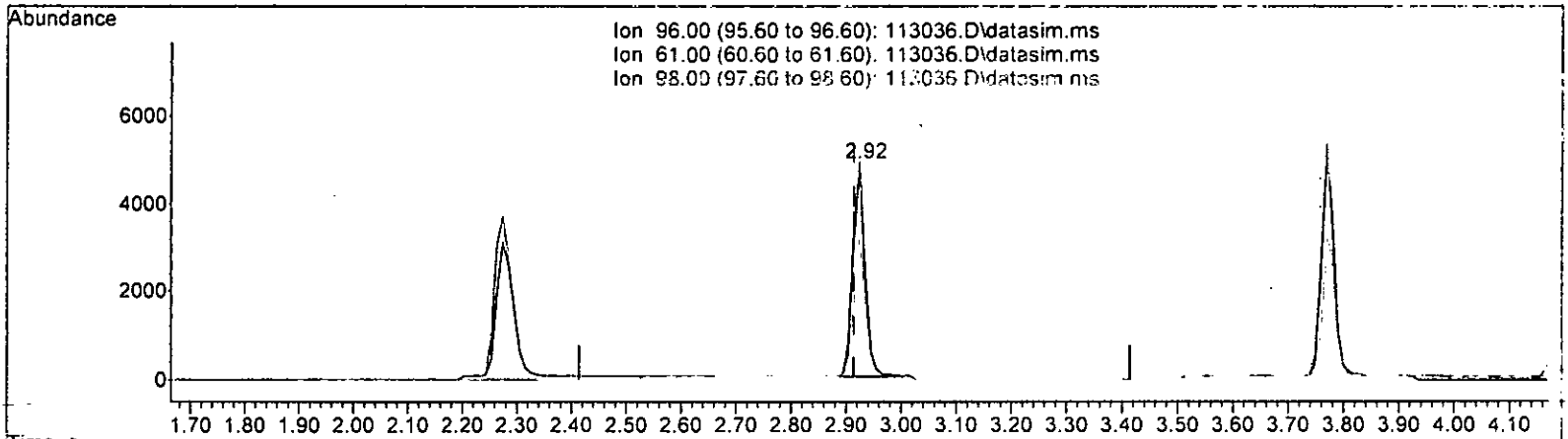
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	97.40
98.00	62.70	66.69
0.00	0.00	0.00

M 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(17) trans-1,2-Dichloroethene (TMP) *m* 12.1

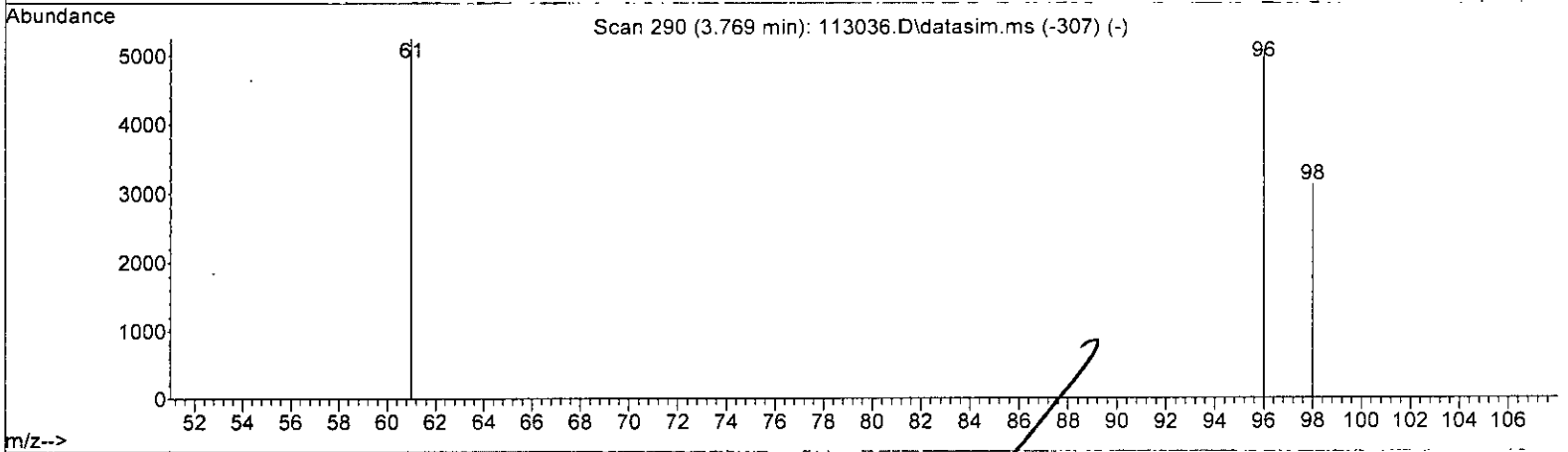
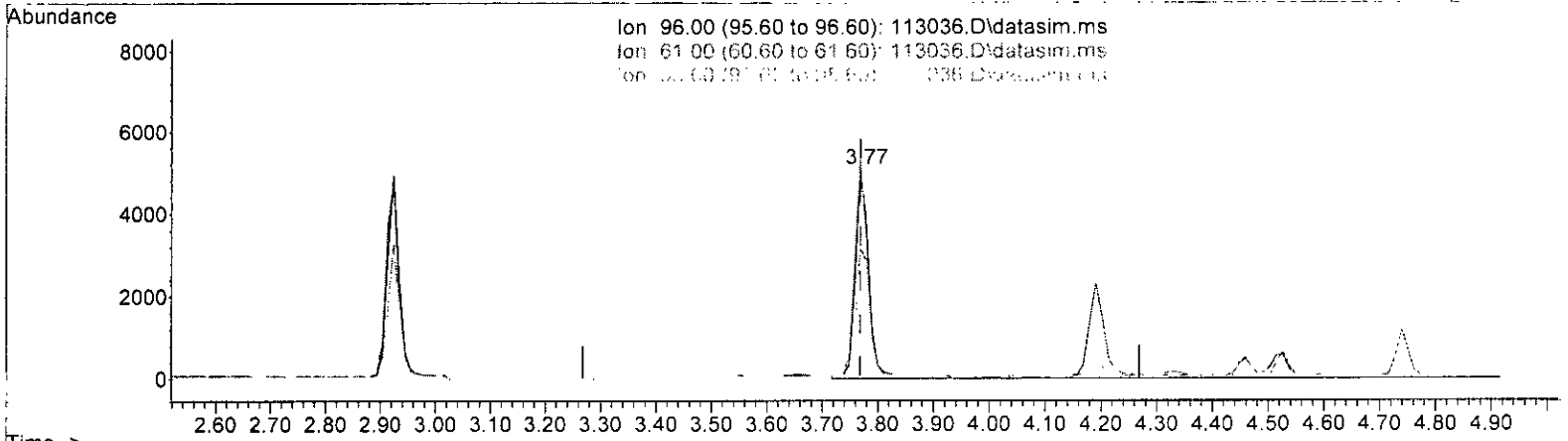
2.924min (+ 0.010) 1.975 ppb m

response	7234	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	107.00	97.40
98.00	62.70	66.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(22) cis-1,2-Dichloroethene (TMP)  
 3.769min (-0.000) 2.242 ppb

response 8869

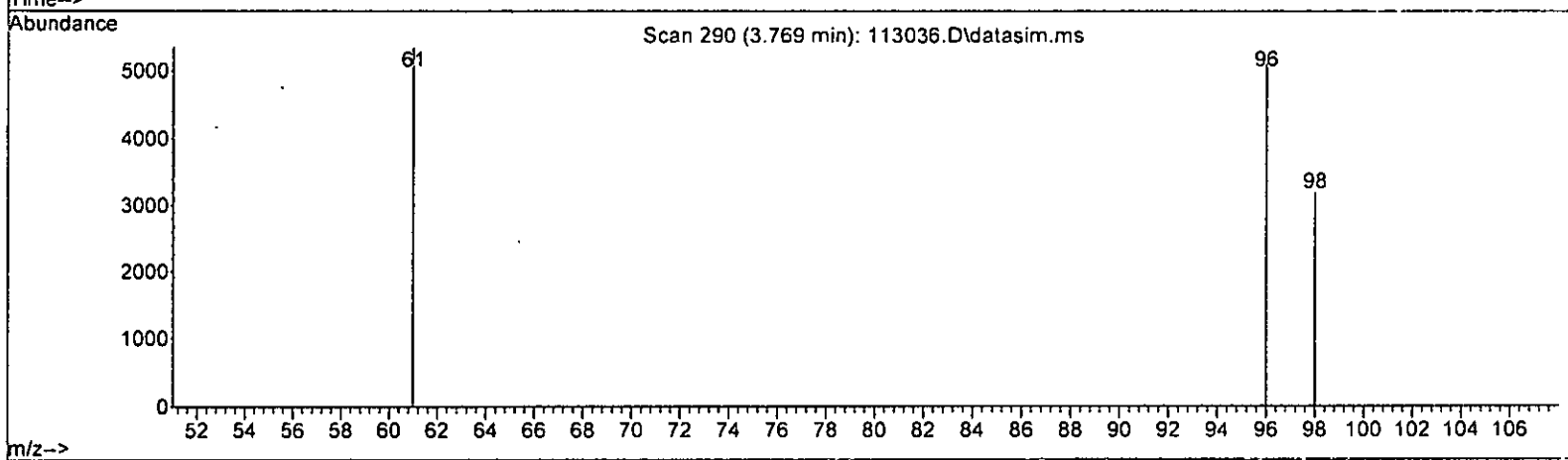
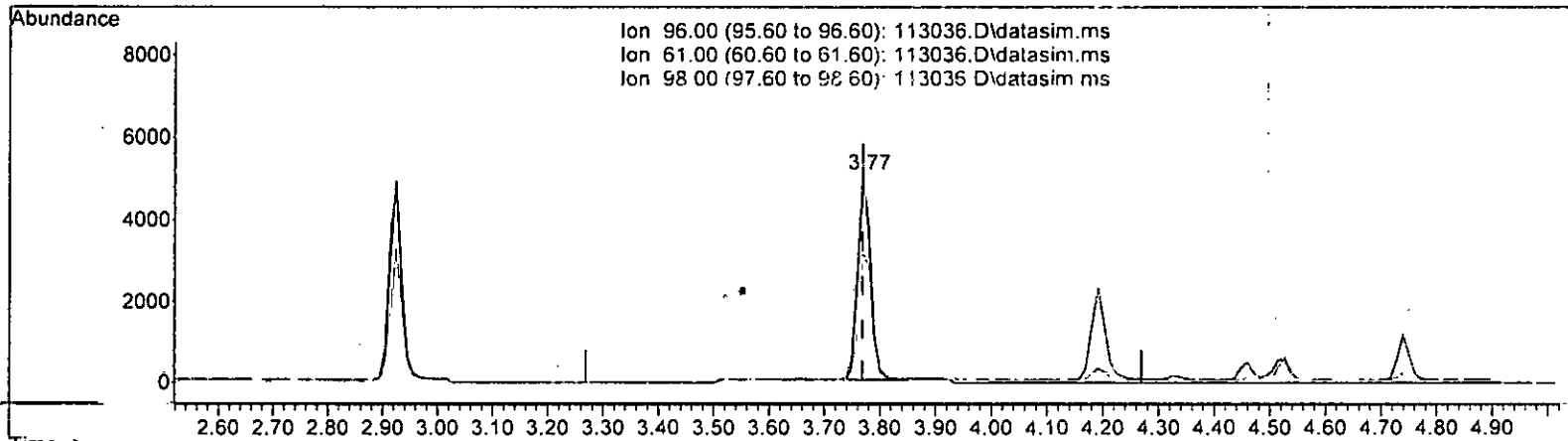
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	97.00	103.56
98.00	68.10	61.33
0.00	0.00	0.00

*ms 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113036.D\data.ms

(22) cis-1,2-Dichloroethene (TMP) *12.1*

3.769min (-0.000) 1.993 ppb m

response	7885
Ion	Exp% Act%
96.00	100.00 100.00
61.00	97.00 105.09
98.00	68.10 62.67
0.00	0.00 0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	9.742	2.6	100	0.00
4 TMP Dichlorodifluoromethane	2.000	1.743	12.8	93	0.00
5 TMP Chloromethane	2.000	2.204	-10.2	99	0.00
6 TMP Vinyl chloride	2.000	1.953	2.3	99	0.00
7 TMP Bromomethane	2.000	1.905	4.7	105	0.02
8 TMP Chloroethane	2.000	1.894	5.3	99	0.00
9 TMP Trichlorofluoromethane	2.000	1.963	1.8	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	10.000	10.280	-2.8	100	0.00
12 TMP 1,1-Dichloroethene	2.000	1.922	3.9	100	0.01
13 TMP Hexane	2.000	2.004	-0.2	100	0.00
14 TMP Methylene chloride	2.000	2.138	-6.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	10.000	10.513	-5.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	2.000	2.072	-3.6	103	0.01
17 TMP trans-1,2-Dichloroethene	2.000	1.975	1.2	101	0.01
18 TMP Diisopropyl ether (DIPE)	2.000	1.898	5.1	100	0.00
19 TMP 1,1-Dichloroethane	2.000	2.022	-1.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	2.000	1.962	1.9	100	0.00
21 TMP 2,2-Dichloropropane	2.000	1.874	6.3	100	0.01
22 TMP cis-1,2-Dichloroethene	2.000	1.993	0.3	101	0.00
23 TMP Chloroform	2.000	1.954	2.3	100	0.00
24 TMP 2-Butanone (MEK)	10.000	9.948	0.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	2.000	1.956	2.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	2.000	2.060	-3.0	102	0.01
27 TMP 1,1,1-Trichloroethane	2.000	2.010	-0.5	100	0.00
28 TMP 1,1-Dichloropropene	2.000	1.996	0.2	100	0.00
29 TMP Carbon tetrachloride	2.000	1.927	3.6	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.176	-1.8	100	0.00
31 TMP Benzene	2.000	2.100	-5.0	100	0.00
32 TMP Trichloroethene	2.000	2.131	-6.5	104	0.00
33 TMP 1,2-Dichloropropane	2.000	2.049	-2.4	100	0.00
34 TMP Bromodichloromethane	2.000	1.848	7.6	100	0.00
35 S Toluene-d8	10.000	9.420	5.8	100	0.00
36 TMP Dibromomethane	2.000	1.988	0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	10.000	10.322	-3.2	100	0.01
38 TMP cis-1,3-Dichloropropene	2.000	1.965	1.7	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	2.000	2.073	-3.6	100	0.00
41 TMP trans-1,3-Dichloropropene	2.000	1.972	1.4	100	0.00
42 TMP 1,1,2-Trichloroethane	2.000	2.054	-2.7	100	0.00
43 TMP 2-Hexanone	10.000	10.227	-2.3	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	2.000	2.042	-2.1	100	0.01
45 TMP Tetrachloroethene	2.000	2.031	-1.6	100	0.00
46 TMP Dibromochloromethane	2.000	1.982	0.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	2.000	2.114	-5.7	100	0.01
48 TMP Chlorobenzene	2.000	2.083	-4.2	100	0.00
49 TMP Ethylbenzene	2.000	2.133	-6.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	2.000	2.021	-1.0	100	0.00
51 TMP m,p-Xylene	4.000	4.291	-7.3	100	0.00
52 TMP o-Xylene	2.000	2.109	-5.4	100	0.00
53 TMP Styrene	2.000	2.040	-2.0	100	0.00
54 TMP Isopropylbenzene	2.000	2.097	-4.8	100	0.00
55 TMP Bromoform	2.000	1.879	6.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.149	-1.5	100	0.00
58 TMP n-Propylbenzene	2.000	2.047	-2.4	100	0.00
59 TMP Bromobenzene	2.000	2.025	-1.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.000	2.036	-1.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	2.000	2.046	-2.3	100	0.00
62 TMP 1,2,3-Trichloropropane	2.000	1.941	2.9	100	0.00
63 TMP 2-Chlorotoluene	2.000	2.162	-8.1	100	0.00
64 TMP 4-Chlorotoluene	2.000	2.082	-4.1	100	0.00
65 TMP tert-Butylbenzene	2.000	2.010	-0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.000	1.992	0.4	100	0.00
67 TMP sec-Butylbenzene	2.000	2.054	-2.7	100	0.00
68 TMP p-Isopropyltoluene	2.000	1.996	0.2	100	0.00
69 TMP 1,3-Dichlorobenzene	2.000	1.989	0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	2.000	2.005	-0.2	100	0.00
71 TMP 1,2-Dichlorobenzene	2.000	2.014	-0.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	2.000	2.075	-3.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	2.000	1.966	1.7	100	0.00
74 TMP Hexachlorobutadiene	2.000	1.946	2.7	100	0.00
75 TMP Naphthalene	2.000	1.899	5.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	2.000	1.965	1.7	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.310	2.8	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.508	12.7	93	0.00
5 TMP Chloromethane	0.386	0.425	-10.1	99	0.00
6 TMP Vinyl chloride	0.373	0.364	2.4	99	0.00
7 TMP Bromomethane	0.385	0.367	4.7	105	0.02
8 TMP Chloroethane	0.200	0.189	5.5	99	0.00
9 TMP Trichlorofluoromethane	1.015	0.997	1.8	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.022	0.0	100	0.00
12 TMP 1,1-Dichloroethene	0.248	0.238	4.0	100	0.01
13 TMP Hexane	0.236	0.250	-5.9	100	0.00
14 TMP Methylene chloride	0.247	0.339	-37.2#	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.023#	-4.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.617	-3.5	103	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.271	1.1	101	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.506	5.1	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.344	-0.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.282	1.7	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.260	12.5	100	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.295	0.3	101	0.00
23 TMP Chloroform	0.441	0.431	2.3	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.107	-4.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.551	0.539	2.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.316	5.4	102	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.470	-0.4	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.319	0.3	100	0.00
29 TMP Carbon tetrachloride	0.497	0.479	3.6	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP Benzene	0.849	0.835	1.6	100	0.00
32 TMP Trichloroethene	0.304	0.324	-6.6	104	0.00
33 TMP 1,2-Dichloropropane	0.189	0.184	2.6	100	0.00
34 TMP Bromodichloromethane	0.316	0.292	7.6	100	0.00
35 S Toluene-d8	0.899	0.847	5.8	100	0.00
36 TMP Dibromomethane	0.173	0.172	0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.041	-2.5	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.323	1.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.722	-0.4	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.351	1.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.201	1.5	100	0.00
43 TMP 2-Hexanone	0.142	0.145	-2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.345	-2.1	100	0.01
45 TMP Tetrachloroethene	0.443	0.444	-0.2	100	0.00
46 TMP Dibromochloromethane	0.425	0.421	0.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.333	0.6	100	0.01
48 TMP Chlorobenzene	0.943	0.982	-4.1	100	0.00
49 TMP Ethylbenzene	1.560	1.348	13.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.417	-1.0	100	0.00
51 TMP m,p-Xylene	0.718	0.599	16.6	100	0.00
52 TMP o-Xylene	0.611	0.581	4.9	100	0.00
53 TMP Styrene	0.848	0.865	-2.0	100	0.00
54 TMP Isopropylbenzene	1.353	1.419	-4.9	100	0.00
55 TMP Bromoform	0.302	0.284	6.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	0.606	0.615	-1.5	100	0.00
58 TMP n-Propylbenzene	2.257	2.311	-2.4	100	0.00
59 TMP Bromobenzene	0.821	0.831	-1.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.868	-1.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.440#	-1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.327#	3.0	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.387	-8.2	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.615	-4.1	100	0.00
65 TMP tert-Butylbenzene	1.946	1.956	-0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.967	0.4	100	0.00
67 TMP sec-Butylbenzene	2.396	2.460	-2.7	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.394	0.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.468	0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.460	-0.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.432	-0.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.094	-3.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.980	1.7	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.572	2.7	100	0.00
75 TMP Naphthalene	1.938	1.840	5.1	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.775	1.8	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	133517	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	109857	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	67912	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	41436	9.742	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.40%
30) 1,2-Dichloroethane-d4	4.45	102	8112	10.176	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	101.80%
35) Toluene-d8	6.10	98	113056	9.420	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	94.20%
57) 4-Bromofluorobenzene	8.51	95	41764	10.149	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	101.50%
Target Compounds						
2) Ethanol	2.33	45	234	No Calib		
4) Dichlorodifluoromethane	1.12	85	13556	1.743	ppb	92
5) Chloromethane	1.26	50	11355	2.204	ppb	94
6] Vinyl chloride	1.34	62	9729m	1.953	ppb	
7) Bromomethane	1.59	94	9797m	1.905	ppb	
8] Chloroethane	1.65	64	5053m	1.894	ppb	
9) Trichlorofluoromethane	1.84	101	26619m	1.963	ppb	
10) 2-Propanol	2.33	45	234	No Calib		
11) Acetone	2.33	58	2922	10.280	ppb #	85
12] 1,1-Dichloroethene	2.27	96	6362m	1.922	ppb	
13) Hexane	3.16	57	6672	2.004	ppb	93
14) Methylene chloride	2.69	84	9051	2.138	ppb	90
15) t-Butyl alcohol (TBA)	2.82	59	3130	10.513	ppb	92
16] Methyl t-butyl ether (...)	2.93	73	16483	2.072	ppb	99
17] trans-1,2-Dichloroethene	2.92	96	7234m	1.975	ppb	
18) Diisopropyl ether (DIPE)	3.35	45	13520	1.898	ppb	93
19] 1,1-Dichloroethane	3.27	63	9195	2.022	ppb	94
20) Ethyl t-butyl ether (E...)	3.66	87	7523	1.962	ppb	95
21) 2,2-Dichloropropane	3.77	77	6935	1.874	ppb	84
22] cis-1,2-Dichloroethene	3.77	96	7885m	1.993	ppb	
23) Chloroform	4.04	83	11516	1.954	ppb	99
24) 2-Butanone (MEK)	3.79	43	14294	9.948	ppb	97
25) t-Amyl methyl ether (T...)	4.61	73	14380	1.956	ppb	98
26] 1,2-Dichloroethane (EDC)	4.53	62	8438	2.060	ppb	93
27] 1,1,1-Trichloroethane	4.19	97	12555	2.010	ppb	96
28) 1,1-Dichloropropene	4.33	75	8531	1.996	ppb	95
29) Carbon tetrachloride	4.33	117	12792	1.927	ppb	97
31] Benzene	4.50	78	22301	2.100	ppb	96
32] Trichloroethene	5.05	95	8651	2.131	ppb	89
33) 1,2-Dichloropropane	5.24	63	4909	2.049	ppb	98
34) Bromodichloromethane	5.48	83	7806	1.848	ppb	98
36) Dibromomethane	5.35	93	4583	1.988	ppb	94

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

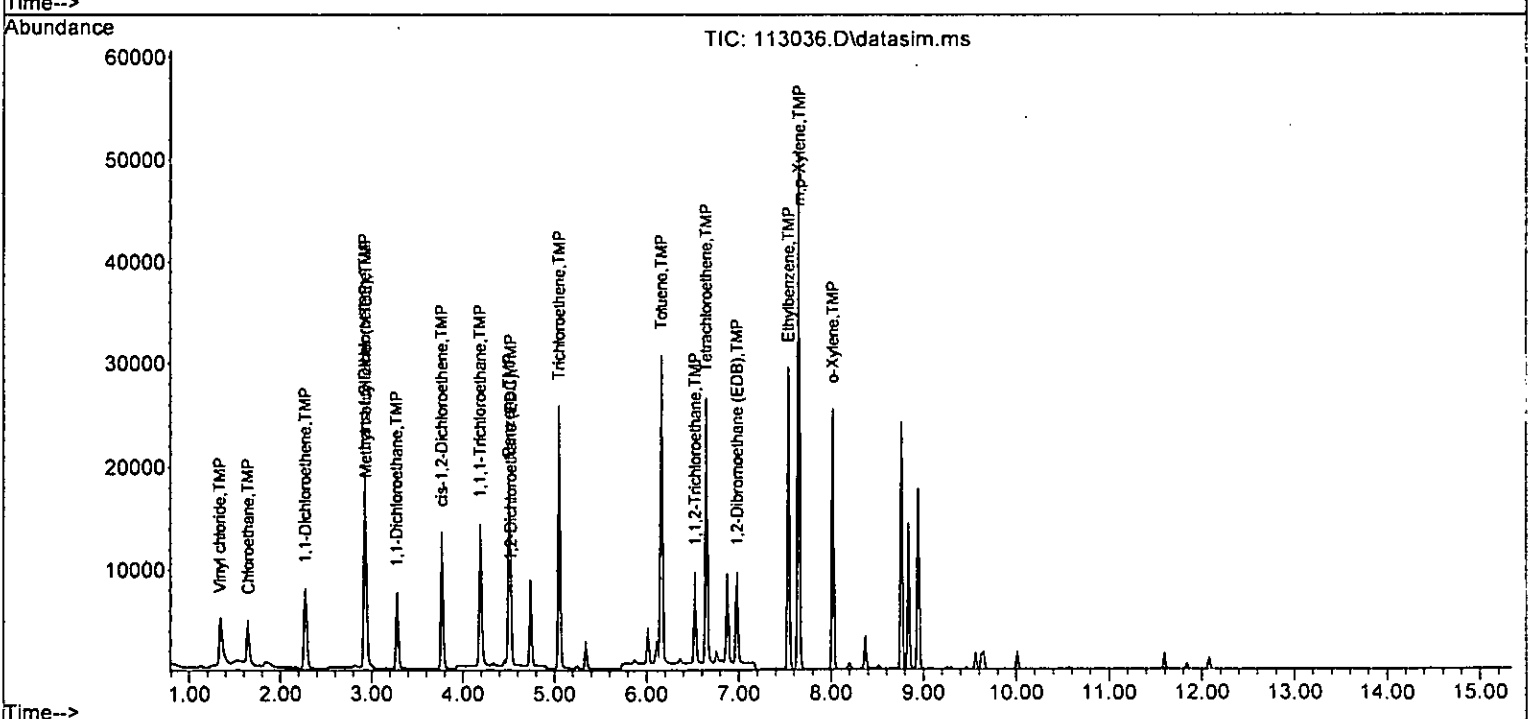
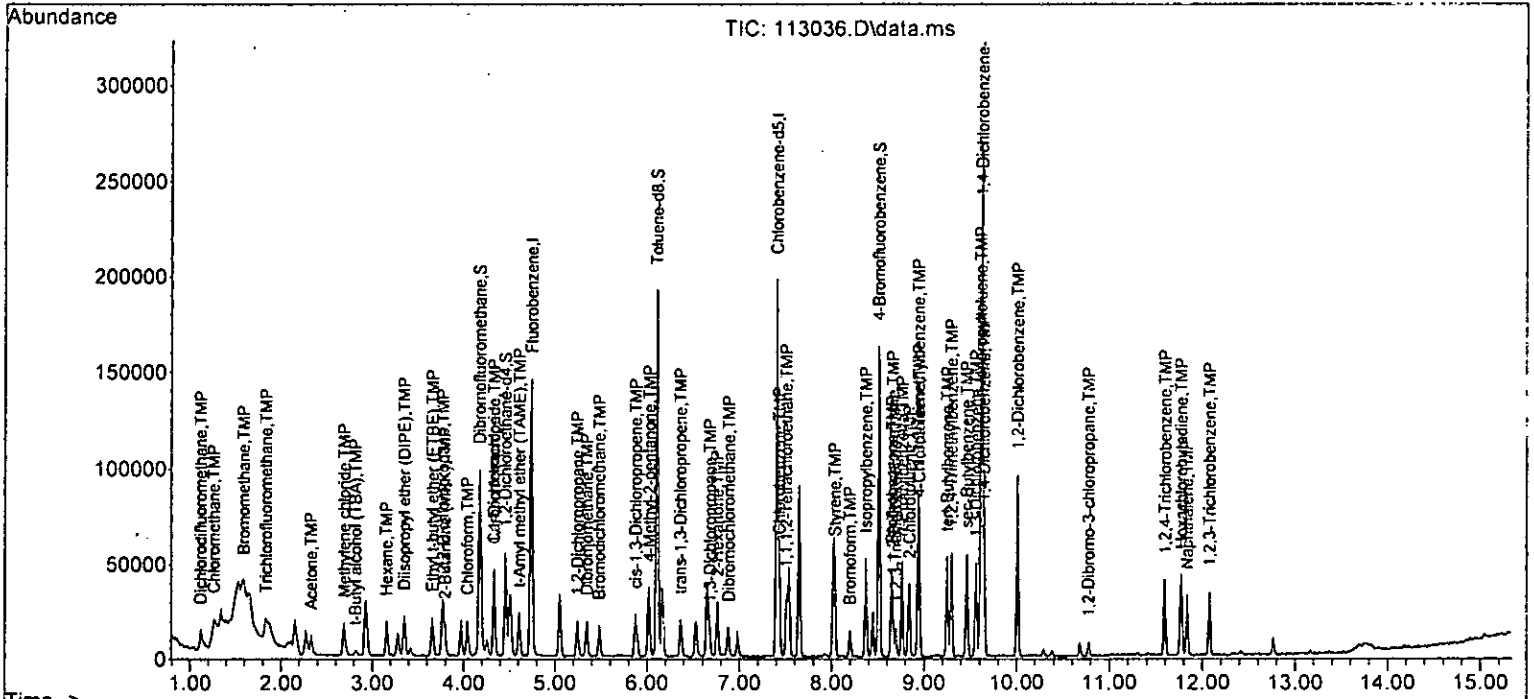
Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	5470	10.322	ppb	87
38) cis-1,3-Dichloropropene	5.88	75	8617	1.965	ppb	96
40] Toluene	6.16	92	15873	2.073	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	7709	1.972	ppb	95
42] 1,1,2-Trichloroethane	6.53	83	4427	2.054	ppb	96
43) 2-Hexanone	6.76	43	15900	10.227	ppb	95
44) 1,3-Dichloropropane	6.68	76	7580	2.042	ppb	80
45] Tetrachloroethene	6.65	164	9762	2.031	ppb	98
46) Dibromochloromethane	6.88	129	9260	1.982	ppb	94
47] 1,2-Dibromoethane (EDB)	6.98	107	7318	2.114	ppb	90
48) Chlorobenzene	7.43	112	21583	2.083	ppb	97
49] Ethylbenzene	7.54	91	29619	2.133	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.51	131	9163	2.021	ppb	95
51] m,p-Xylene	7.65	106	26305	4.291	ppb	98
52] o-Xylene	8.02	106	12762	2.109	ppb	97
53) Styrene	8.03	104	19015	2.040	ppb	97
54) Isopropylbenzene	8.37	105	31174	2.097	ppb	100
55) Bromoform	8.20	173	6242	1.879	ppb	91
58) n-Propylbenzene	8.77	91	31383	2.047	ppb	99
59) Bromobenzene	8.65	156	11292	2.025	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	25378	2.036	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.66	83	5982	2.046	ppb	97
62) 1,2,3-Trichloropropane	8.70	75	4447	1.941	ppb	99
63) 2-Chlorotoluene	8.84	91	18834	2.162	ppb	97
64) 4-Chlorotoluene	8.95	91	21942	2.082	ppb	96
65) tert-Butylbenzene	9.25	119	26570	2.010	ppb	97
66) 1,2,4-Trimethylbenzene	9.30	105	26720	1.992	ppb	99
67) sec-Butylbenzene	9.46	105	33417	2.054	ppb	99
68) p-Isopropyltoluene	9.61	119	32521	1.996	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	19939	1.989	ppb	97
70) 1,4-Dichlorobenzene	9.64	146	19824	2.005	ppb	97
71) 1,2-Dichlorobenzene	10.01	146	19446	2.014	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	1276	2.075	ppb #	64
73) 1,2,4-Trichlorobenzene	11.60	180	13316	1.966	ppb	97
74) Hexachlorobutadiene	11.77	225	7765	1.946	ppb	94
75) Naphthalene	11.83	128	24992	1.899	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	10532	1.965	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113036.D  
 Acq On : 01 Dec 2022 01:02 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS13

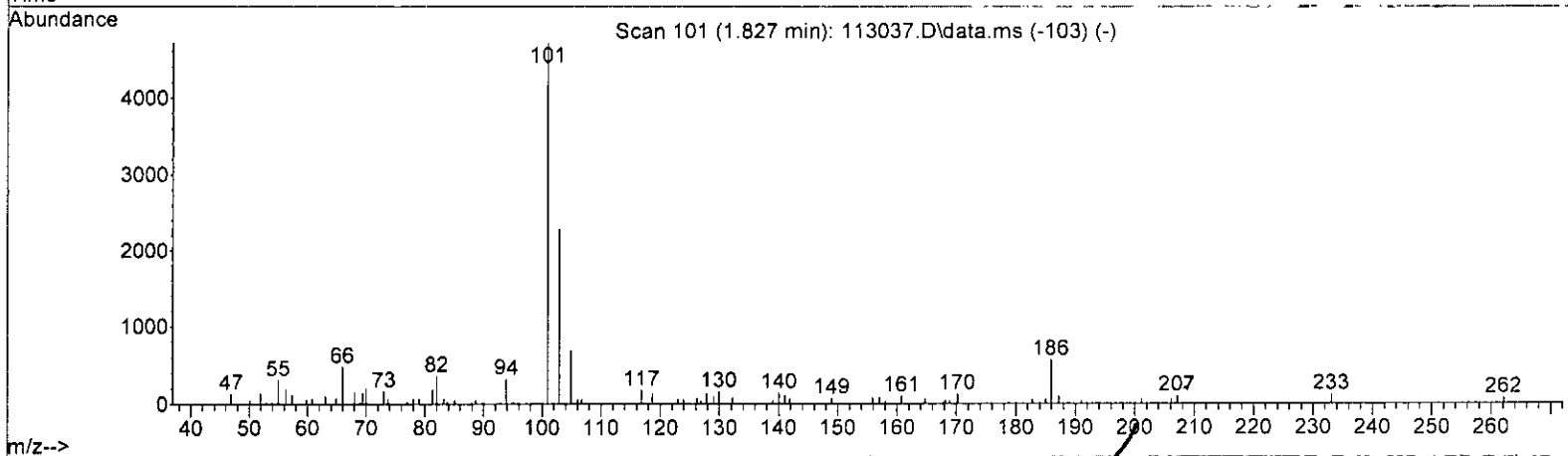
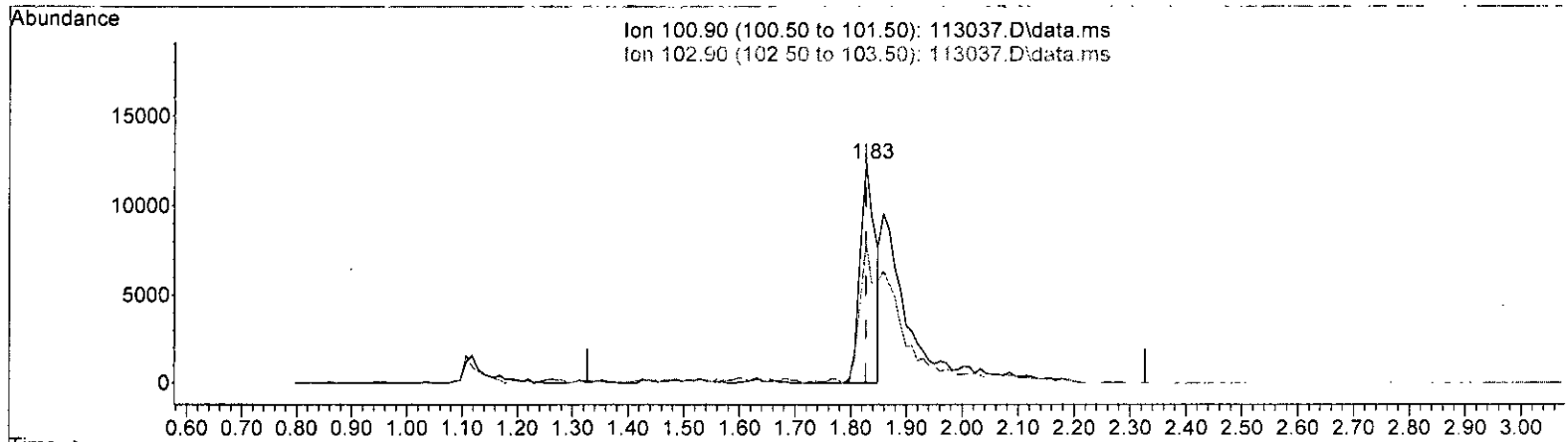
Quant Time: Dec 01 12:14:40 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113037.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.827min (+ 0.000) 1.804 ppb

response 23781

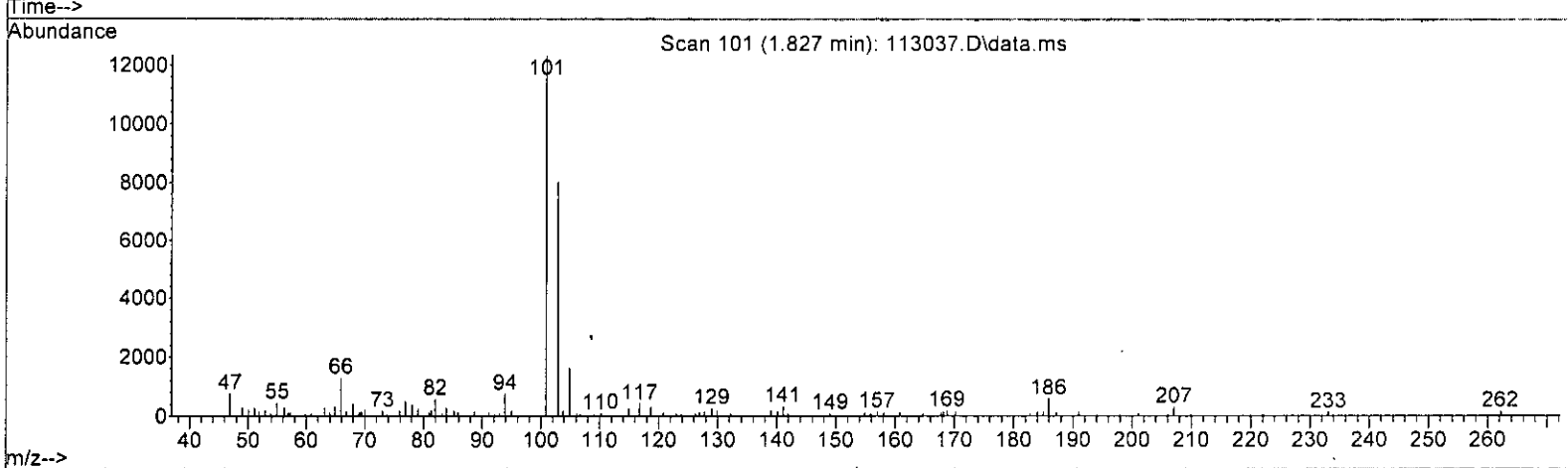
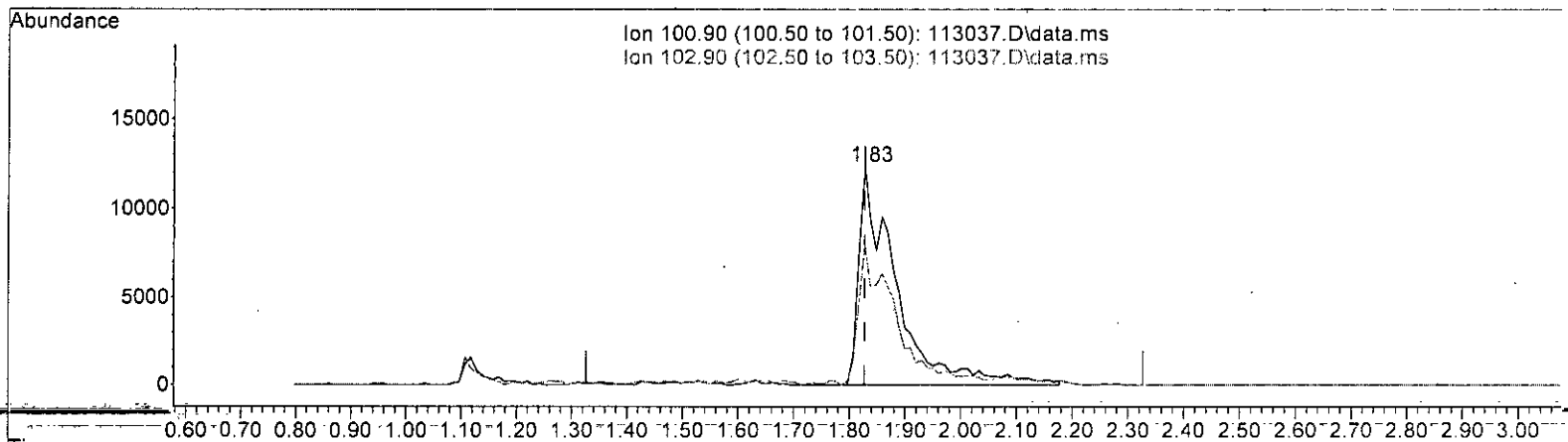
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	67.50	64.84
0.00	0.00	0.00
0.00	0.00	0.00

m 12.1

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113037.D\data.ms

(9) Trichlorofluoromethane (TMP)		
1.827min (+ 0.000)	4.544 ppb m	
response	59909	
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	67.50	64.84
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.1*



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	129854	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.41	117	107689	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	65984	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.18	113	39511	9.551	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	95.50%	
30) 1,2-Dichloroethane-d4	4.45	102	7603	9.806	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	98.10%	
35) Toluene-d8	6.11	98	115607	9.904	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	99.00%	
57) 4-Bromofluorobenzene	8.51	95	38845	9.715	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	97.20%	
Target Compounds							
2) Ethanol	2.33	45	184	No Calib			Qvalue
4) Dichlorodifluoromethane	1.12	85	32172	4.254	ppb		96
5) Chloromethane	1.25	50	23150	4.620	ppb		94
6] Vinyl chloride	1.34	62	23945	4.941	ppb		95
7) Bromomethane	1.58	94	26145	5.228	ppb		98
8] Chloroethane	1.64	64	12396	4.778	ppb		95
9) Trichlorofluoromethane	1.83	101	59909m	4.544	ppb		
10) 2-Propanol	2.33	45	184	No Calib	#		
11) Acetone	2.32	58	6091	19.857	ppb		88
12] 1,1-Dichloroethene	2.27	96	15882	4.933	ppb		90
13) Hexane	3.16	57	13879	4.510	ppb		98
14) Methylene chloride	2.68	84	16694	4.684	ppb		97
15) t-Butyl alcohol (TBA)	2.82	59	6604	22.808	ppb		97
16] Methyl t-butyl ether (...)	2.93	73	37520	4.850	ppb		96
17] trans-1,2-Dichloroethene	2.91	96	17151	4.814	ppb		95
18) Diisopropyl ether (DIPE)	3.35	45	31578	4.558	ppb		97
19] 1,1-Dichloroethane	3.27	63	20992	4.746	ppb		98
20) Ethyl t-butyl ether (E...)	3.65	87	18031	4.835	ppb		96
21) 2,2-Dichloropropane	3.76	77	14318	4.325	ppb		98
22] cis-1,2-Dichloroethene	3.77	96	18981	4.934	ppb		97
23) Chloroform	4.04	83	26201	4.570	ppb		97
24) 2-Butanone (MEK)	3.80	43	28257	19.631	ppb		95
25) t-Amyl methyl ether (T...)	4.61	73	33880	4.738	ppb		98
26] 1,2-Dichloroethane (EDC)	4.52	62	19511	4.923	ppb		99
27] 1,1,1-Trichloroethane	4.19	97	28955	4.766	ppb		98
28) 1,1-Dichloropropene	4.33	75	19402	4.668	ppb		98
29) Carbon tetrachloride	4.33	117	28979	4.490	ppb		96
31] Benzene	4.50	78	51552	5.011	ppb		99
32] Trichloroethene	5.05	95	18129	4.591	ppb		97
33) 1,2-Dichloropropane	5.24	63	10977	4.949	ppb		99
34) Bromodichloromethane	5.48	83	18815	4.580	ppb		93
36) Dibromomethane	5.35	93	10591	4.723	ppb	#	81

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

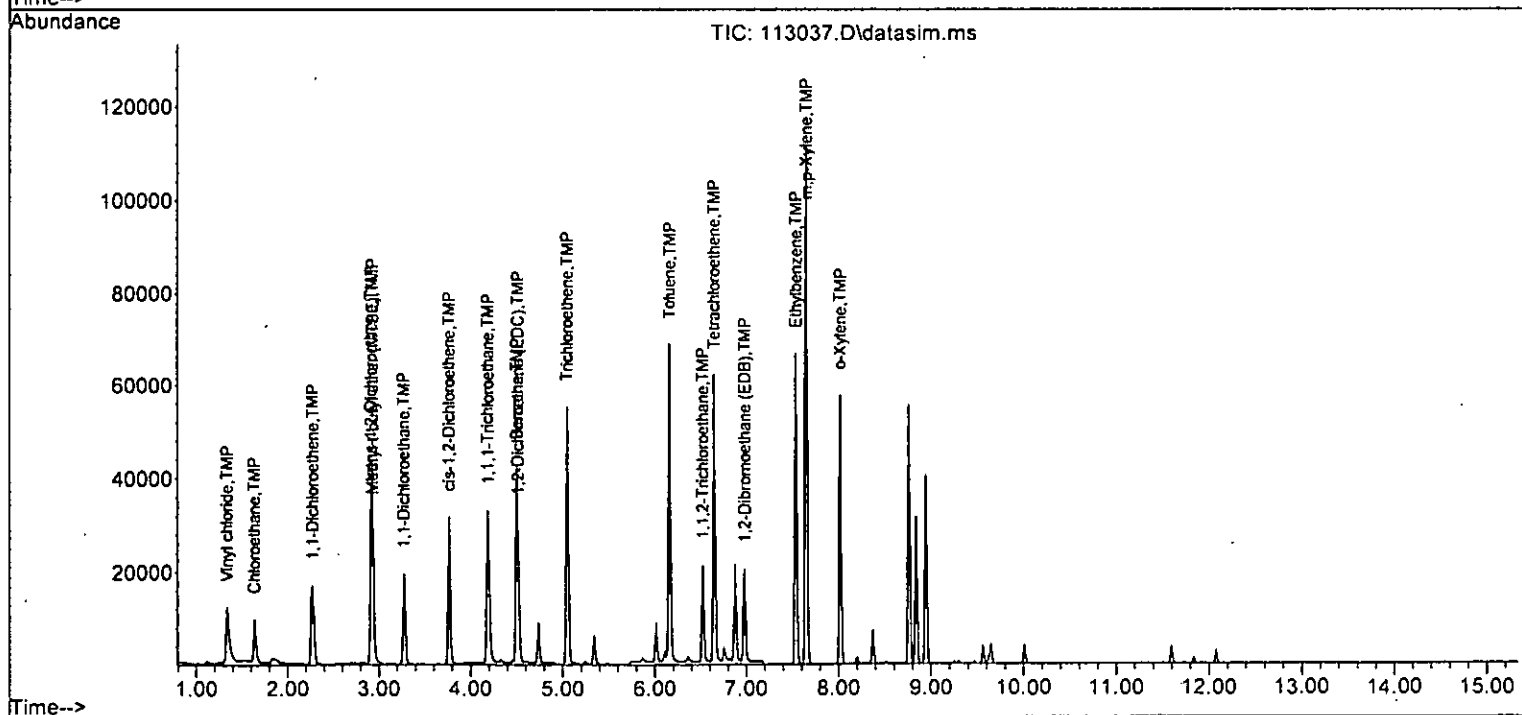
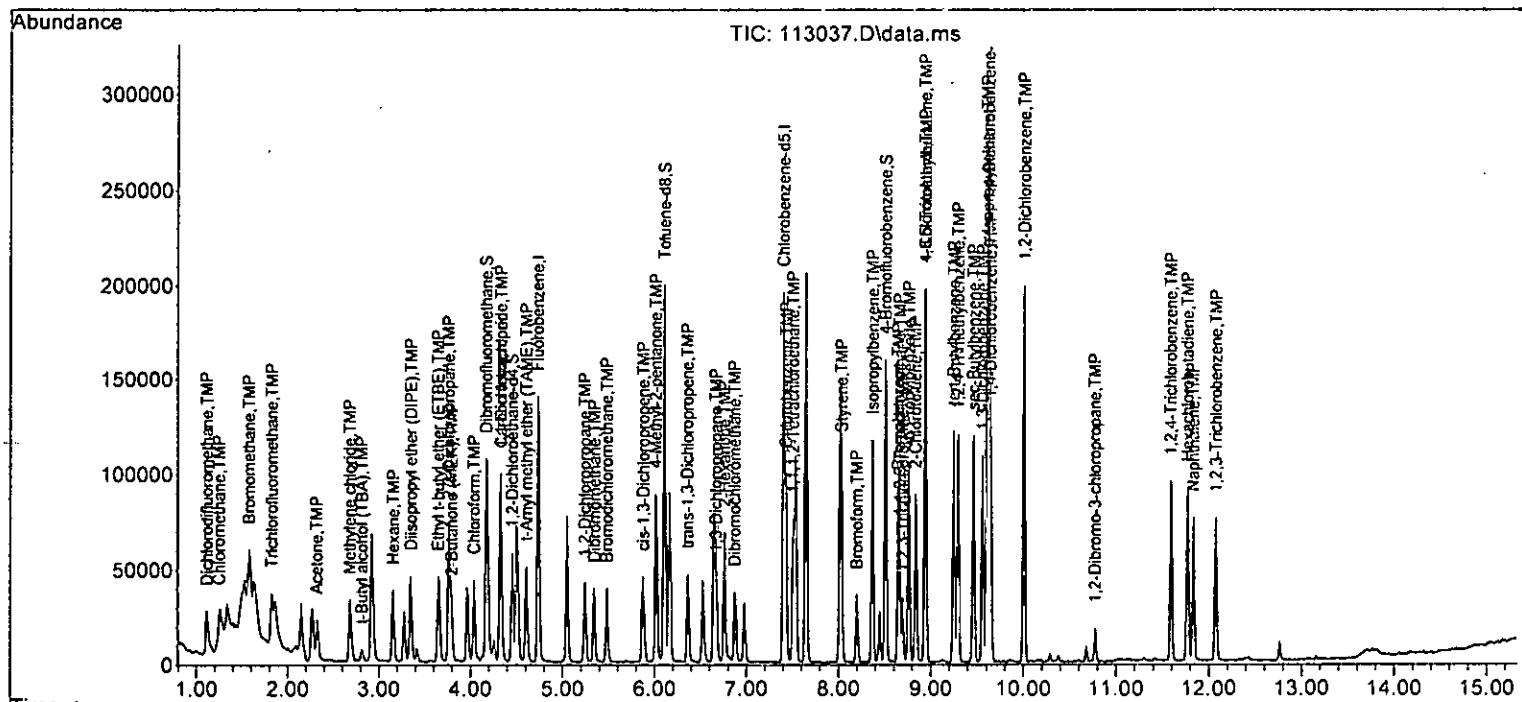
Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	12011	23.304	ppb	91
38) cis-1,3-Dichloropropene	5.88	75	19613	4.598	ppb	99
40] Toluene	6.16	92	36804	4.912	ppb	100
41) trans-1,3-Dichloropropene	6.36	75	18328	4.784	ppb	96
42] 1,1,2-Trichloroethane	6.53	83	10262	4.867	ppb	99
43) 2-Hexanone	6.76	43	38235	25.087	ppb	98
44) 1,3-Dichloropropane	6.67	76	17532	4.817	ppb	96
45] Tetrachloroethene	6.65	164	22250	4.738	ppb	99
46) Dibromochloromethane	6.87	129	21811	4.763	ppb	98
47] 1,2-Dibromoethane (EDB)	6.98	107	17032	5.038	ppb	88
48) Chlorobenzene	7.43	112	47426	4.670	ppb	98
49] Ethylbenzene	7.54	91	67881	5.054	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	20556	4.625	ppb	97
51] m,p-Xylene	7.65	106	59630	10.084	ppb	99
52] o-Xylene	8.02	106	29108	4.938	ppb	98
53) Styrene	8.03	104	44342	4.853	ppb	98
54) Isopropylbenzene	8.37	105	68614	4.709	ppb	96
55) Bromoform	8.20	173	15332	4.708	ppb	94
58) n-Propylbenzene	8.77	91	71579	4.806	ppb	99
59) Bromobenzene	8.65	156	25481	4.702	ppb	99
60) 1,3,5-Trimethylbenzene	8.94	105	57753	4.768	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.66	83	14434	5.102	ppb	97
62) 1,2,3-Trichloropropane	8.70	75	10256	4.607	ppb	96
63) 2-Chlorotoluene	8.84	91	41767	4.936	ppb	96
64) 4-Chlorotoluene	8.94	91	48910	4.776	ppb	89
65) tert-Butylbenzene	9.25	119	59123	4.604	ppb	98
66) 1,2,4-Trimethylbenzene	9.30	105	59952	4.600	ppb	99
67) sec-Butylbenzene	9.46	105	74302	4.700	ppb	97
68) p-Isopropyltoluene	9.61	119	74100	4.680	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	46158	4.739	ppb	98
70) 1,4-Dichlorobenzene	9.64	146	46132	4.803	ppb	93
71) 1,2-Dichlorobenzene	10.01	146	43108	4.594	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.77	75	3066	5.131	ppb	86
73) 1,2,4-Trichlorobenzene	11.59	180	30451	4.628	ppb	99
74) Hexachlorobutadiene	11.77	225	17476	4.507	ppb	100
75) Naphthalene	11.83	128	58358	4.563	ppb	95
76) 1,2,3-Trichlorobenzene	12.08	180	23400	4.493	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	9.551	4.5	100	0.00
4 TMP Dichlorodifluoromethane	5.000	4.254	14.9	95	0.01
5 TMP Chloromethane	5.000	4.620	7.6	100	0.00
6 TMP Vinyl chloride	5.000	4.941	1.2	103	0.01
7 TMP Bromomethane	5.000	5.228	-4.6	94	0.01
8 TMP Chloroethane	5.000	4.778	4.4	105	0.00
9 TMP Trichlorofluoromethane	5.000	4.544	9.1	101	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	25.000	19.857	20.6#	100	0.00
12 TMP 1,1-Dichloroethene	5.000	4.933	1.3	109	0.01
13 TMP Hexane	5.000	4.510	9.8	100	0.00
14 TMP Methylene chloride	5.000	4.684	6.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	25.000	22.808	8.8	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	5.000	4.850	3.0	100	0.01
17 TMP trans-1,2-Dichloroethene	5.000	4.814	3.7	104	0.00
18 TMP Diisopropyl ether (DIPE)	5.000	4.558	8.8	100	0.01
19 TMP 1,1-Dichloroethane	5.000	4.746	5.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	5.000	4.835	3.3	100	0.00
21 TMP 2,2-Dichloropropane	5.000	4.325	13.5	100	0.00
22 TMP cis-1,2-Dichloroethene	5.000	4.934	1.3	106	0.00
23 TMP Chloroform	5.000	4.570	8.6	100	0.00
24 TMP 2-Butanone (MEK)	25.000	19.631	21.5#	100	0.01
25 TMP t-Amyl methyl ether (TAME)	5.000	4.738	5.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	5.000	4.923	1.5	100	0.00
27 TMP 1,1,1-Trichloroethane	5.000	4.766	4.7	100	0.00
28 TMP 1,1-Dichloropropene	5.000	4.668	6.6	100	0.00
29 TMP Carbon tetrachloride	5.000	4.490	10.2	100	0.00
30 5 1,2-Dichloroethane-d4	10.000	9.806	1.9	100	0.00
31 TMP Benzene	5.000	5.011	-0.2	100	0.00
32 TMP Trichloroethene	5.000	4.591	8.2	100	0.00
33 TMP 1,2-Dichloropropane	5.000	4.949	1.0	100	0.00
34 TMP Bromodichloromethane	5.000	4.580	8.4	100	0.00
35 S Toluene-d8	10.000	9.904	1.0	100	0.00
36 TMP Dibromomethane	5.000	4.723	5.5	100	0.01
37 TMP 4-Methyl-2-pentanone	25.000	23.304	6.8	100	0.00
38 TMP cis-1,3-Dichloropropene	5.000	4.598	8.0	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	5.000	4.912	1.8	100	0.00
41 TMP trans-1,3-Dichloropropene	5.000	4.784	4.3	100	0.00
42 TMP 1,1,2-Trichloroethane	5.000	4.867	2.7	100	0.00
43 TMP 2-Hexanone	25.000	25.087	-0.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	5.000	4.817	3.7	100	0.00
45 TMP Tetrachloroethene	5.000	4.738	5.2	100	0.00
46 TMP Dibromochloromethane	5.000	4.763	4.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	5.000	5.038	-0.8	100	0.01
48 TMP Chlorobenzene	5.000	4.670	6.6	100	0.00
49 TMP Ethylbenzene	5.000	5.054	-1.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	5.000	4.625	7.5	100	0.00
51 TMP m,p-Xylene	10.000	10.084	-0.8	100	0.00
52 TMP o-Xylene	5.000	4.938	1.2	100	0.00
53 TMP Styrene	5.000	4.853	2.9	100	0.00
54 TMP Isopropylbenzene	5.000	4.709	5.8	100	0.00
55 TMP Bromoform	5.000	4.708	5.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.715	2.9	100	0.00
58 TMP n-Propylbenzene	5.000	4.806	3.9	100	0.00
59 TMP Bromobenzene	5.000	4.702	6.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	5.000	4.768	4.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	5.000	5.102	-2.0	100	0.00
62 TMP 1,2,3-Trichloropropane	5.000	4.607	7.9	100	0.00
63 TMP 2-Chlorotoluene	5.000	4.936	1.3	100	0.00
64 TMP 4-Chlorotoluene	5.000	4.776	4.5	100	0.00
65 TMP tert-Butylbenzene	5.000	4.604	7.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	5.000	4.600	8.0	100	0.00
67 TMP sec-Butylbenzene	5.000	4.700	6.0	100	0.00
68 TMP p-Isopropyltoluene	5.000	4.680	6.4	100	0.00
69 TMP 1,3-Dichlorobenzene	5.000	4.739	5.2	100	0.00
70 TMP 1,4-Dichlorobenzene	5.000	4.803	3.9	100	0.00
71 TMP 1,2-Dichlorobenzene	5.000	4.594	8.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	5.000	5.131	-2.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	5.000	4.628	7.4	100	0.00
74 TMP Hexachlorobutadiene	5.000	4.507	9.9	100	0.00
75 TMP Naphthalene	5.000	4.563	8.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	5.000	4.493	10.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

## Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM513\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCM513

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	100	0.00
3 S	Dibromofluoromethane	0.319	0.304	4.7	100	0.00
4 TMP	Dichlorodifluoromethane	0.582	0.496	14.8	95	0.01
5 TMP	Chloromethane	0.386	0.357	7.5	100	0.00
6 TMP	Vinyl chloride	0.373	0.369	1.1	103	0.01
7 TMP	Bromomethane	0.385	0.403	-4.7	94	0.01
8 TMP	Chloroethane	0.200	0.191	4.5	105	0.00
9 TMP	Trichlorofluoromethane	1.015	0.923	9.1	101	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.022	0.019	13.6	100	0.00
12 TMP	1,1-Dichloroethene	0.248	0.245	1.2	109	0.01
13 TMP	Hexane	0.236	0.214	9.3	100	0.00
14 TMP	Methylene chloride	0.247	0.257	-4.0	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.022	0.020#	9.1	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	0.596	0.578	3.0	100	0.01
17 TMP	trans-1,2-Dichloroethene	0.274	0.264	3.6	104	0.00
18 TMP	Diisopropyl ether (DIPE)	0.533	0.486#	8.8	100	0.01
19 TMP	1,1-Dichloroethane	0.341	0.323	5.3	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.287	0.278	3.1	100	0.00
21 TMP	2,2-Dichloropropane	0.297	0.221	25.6#	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.296	0.292	1.4	106	0.00
23 TMP	Chloroform	0.441	0.404	8.4	100	0.00
24 TMP	2-Butanone (MEK)	0.102	0.087	14.7	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	0.551	0.522	5.3	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.334	0.301	9.9	100	0.00
27 TMP	1,1,1-Trichloroethane	0.468	0.446	4.7	100	0.00
28 TMP	1,1-Dichloropropene	0.320	0.299	6.6	100	0.00
29 TMP	Carbon tetrachloride	0.497	0.446	10.3	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.059	1.7	100	0.00
31 TMP	Benzene	0.849	0.794	6.5	100	0.00
32 TMP	Trichloroethene	0.304	0.279	8.2	100	0.00
33 TMP	1,2-Dichloropropane	0.189	0.169	10.6	100	0.00
34 TMP	Bromodichloromethane	0.316	0.290	8.2	100	0.00
35 S	Toluene-d8	0.899	0.890	1.0	100	0.00
36 TMP	Dibromomethane	0.173	0.163	5.8	100	0.01
37 TMP	4-Methyl-2-pentanone	0.040	0.037	7.5	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.329	0.302	8.2	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.719	0.684	4.9	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.356	0.340	4.5	100	0.00
42 TMP	1,1,2-Trichloroethane	0.204	0.191	6.4	100	0.00
43 TMP	2-Hexanone	0.142	0.142	0.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113037.D  
 Acq On : 01 Dec 2022 01:25 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:44 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.326	3.6	100	0.00
45 TMP Tetrachloroethene	0.443	0.413	6.8	100	0.00
46 TMP Dibromochloromethane	0.425	0.405	4.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.316	5.7	100	0.01
48 TMP Chlorobenzene	0.943	0.881	6.6	100	0.00
49 TMP Ethylbenzene	1.560	1.261	19.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.382	7.5	100	0.00
51 TMP m,p-Xylene	0.718	0.554	22.8#	100	0.00
52 TMP o-Xylene	0.611	0.541	11.5	100	0.00
53 TMP Styrene	0.848	0.824	2.8	100	0.00
54 TMP Isopropylbenzene	1.353	1.274	5.8	100	0.00
55 TMP Bromoform	0.302	0.285	5.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.589	2.8	100	0.00
58 TMP n-Propylbenzene	2.257	2.170	3.9	100	0.00
59 TMP Bromobenzene	0.821	0.772	6.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.751	4.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.438#	-1.2	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.311#	7.7	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.266	1.2	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.482	4.5	100	0.00
65 TMP tert-Butylbenzene	1.946	1.792	7.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.817	8.0	100	0.00
67 TMP sec-Butylbenzene	2.396	2.252	6.0	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.246	6.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.399	5.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.398	4.0	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.307	8.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.093	-2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.923	7.4	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.530	9.9	100	0.00
75 TMP Naphthalene	1.938	1.769	8.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.709	10.1	100	0.00

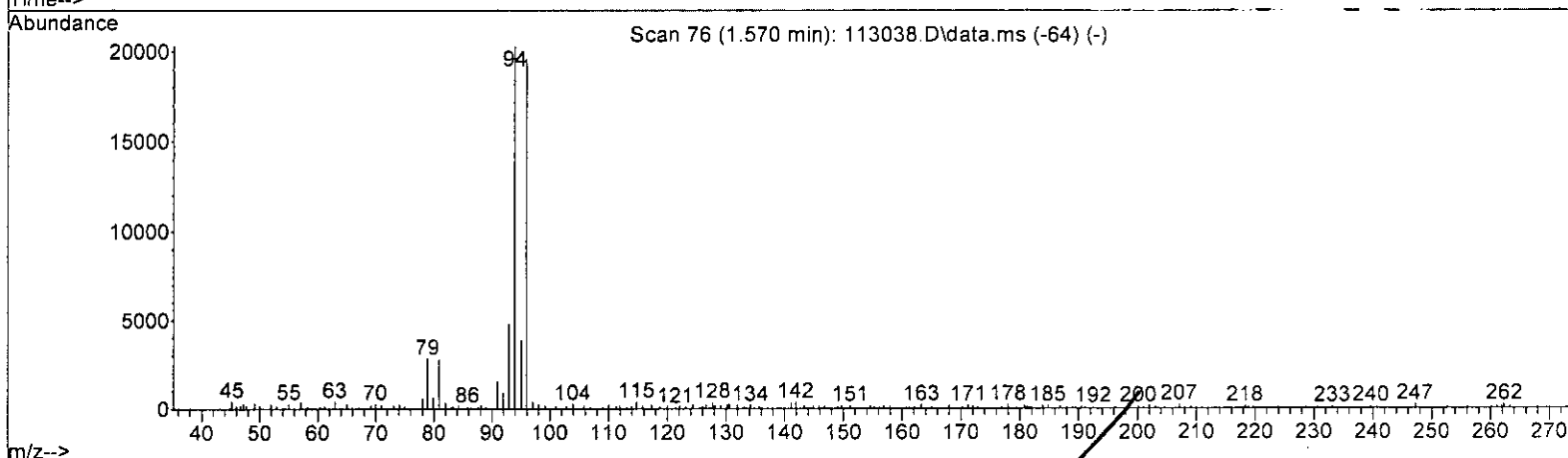
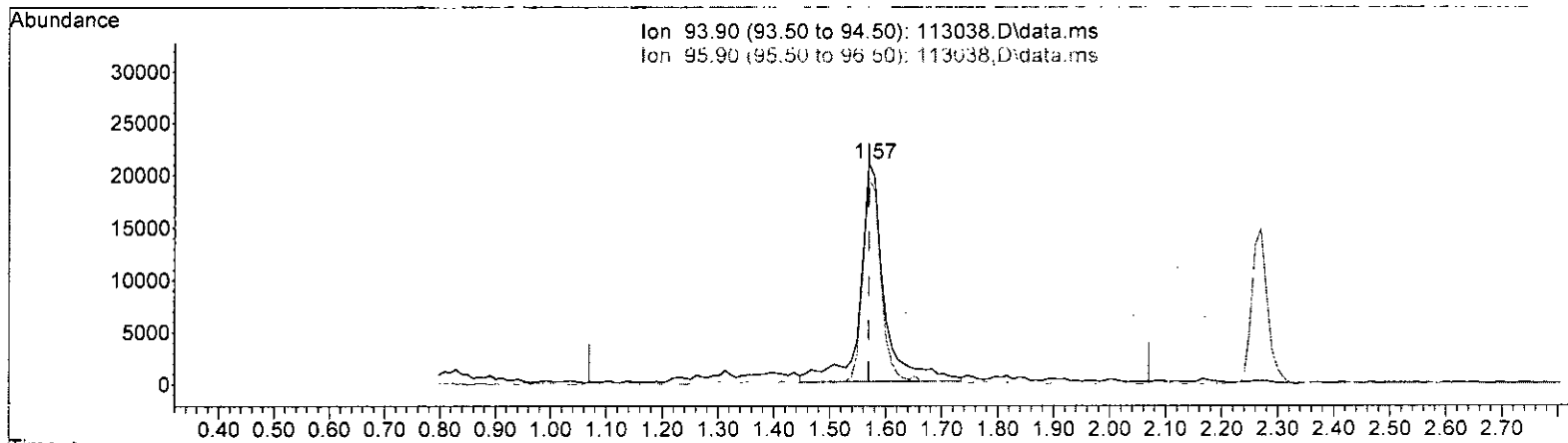
(#) = Out of Range

SPCC's out = 5 CCC's out = 0

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



TIC: 113038.D\data.ms

*LM 12.1*

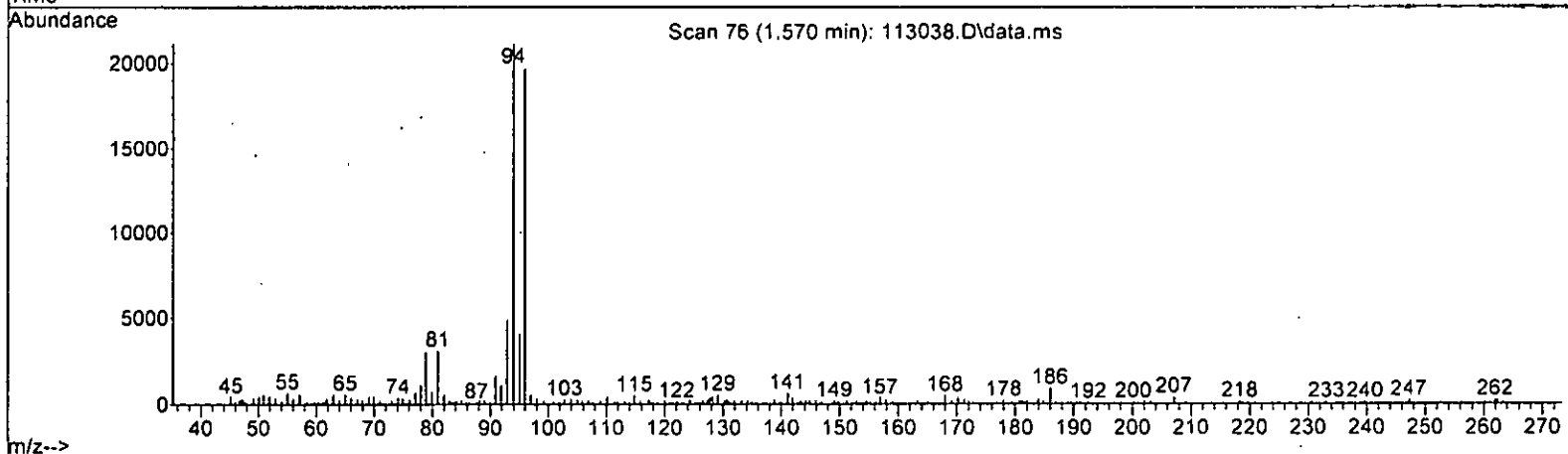
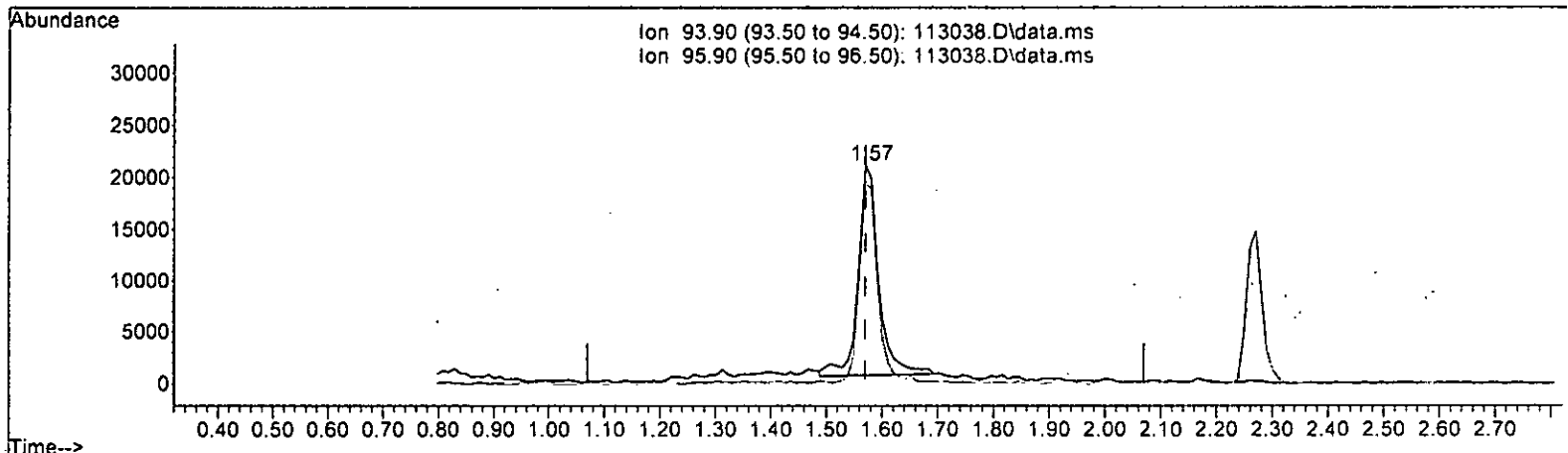
(7) Bromomethane (TMP)		
1.570min (-0.000) 14.071 ppb		
response	62487	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	93.10	95.22
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 113038.D\data.ms

(7) Bromomethane (TMP) LM 12.1

1.570min (-0.000) 11.664 ppb m

response	51800		
Ion	Exp%	Act%	
93.90	100.00	100.00	
95.90	93.10	93.07	
0.00	0.00	0.00	
0.00	0.00	0.00	

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	115315	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	105054	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	65344	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.18	113	38323	10.432	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	104.30%
30) 1,2-Dichloroethane-d4	4.45	102	7093	10.302	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	103.00%
35) Toluene-d8	6.11	98	109418	10.556	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	105.60%
57) 4-Bromofluorobenzene	8.51	95	39719	10.031	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	100.30%
Target Compounds						
2) Ethanol	2.33	45	419	No Calib		Qvalue
4) Dichlorodifluoromethane	1.11	85	69482	10.345	ppb	100
5) Chloromethane	1.25	50	46218	10.386	ppb	100
6] Vinyl chloride	1.33	62	50060	11.633	ppb	99
7) Bromomethane	1.57	94	51800m	11.664	ppb	
8] Chloroethane	1.64	64	25265	10.966	ppb	95
9) Trichlorofluoromethane	1.83	101	123433	10.542	ppb	100
10) 2-Propanol	2.33	45	419	No Calib		
11) Acetone	2.32	58	13525	47.079	ppb	100
12] 1,1-Dichloroethene	2.26	96	31295	10.947	ppb	100
13) Hexane	3.16	57	28725	10.771	ppb	100
14) Methylene chloride	2.68	84	29624	10.091	ppb	100
15) t-Butyl alcohol (TBA)	2.81	59	13104	50.962	ppb	100
16] Methyl t-butyl ether (...)	2.92	73	74899	10.903	ppb	100
17] trans-1,2-Dichloroethene	2.91	96	34163	10.797	ppb	100
18) Diisopropyl ether (DIPE)	3.34	45	70404	11.444	ppb	100
19] 1,1-Dichloroethane	3.27	63	44407	11.305	ppb	100
20) Ethyl t-butyl ether (E...)	3.65	87	34900	10.539	ppb	100
21) 2,2-Dichloropropane	3.76	77	30998	10.987	ppb	100
22] cis-1,2-Dichloroethene	3.77	96	37747	11.049	ppb	100
23) Chloroform	4.04	83	53228	10.455	ppb	100
24) 2-Butanone (MEK)	3.78	43	63901	49.387	ppb	100
25) t-Amyl methyl ether (T...)	4.61	73	68049	10.716	ppb	100
26] 1,2-Dichloroethane (EDC)	4.52	62	38861	11.065	ppb	100
27] 1,1,1-Trichloroethane	4.19	97	58981	10.932	ppb	100
28) 1,1-Dichloropropene	4.33	75	38127	10.329	ppb	100
29) Carbon tetrachloride	4.33	117	58288	10.169	ppb	100
31] Benzene	4.50	78	103415	11.337	ppb	100
32] Trichloroethene	5.05	95	39237	11.190	ppb	100
33) 1,2-Dichloropropane	5.24	63	21732	11.259	ppb	100
34) Bromodichloromethane	5.48	83	38161	10.459	ppb	100
36) Dibromomethane	5.34	93	21279	10.686	ppb	100

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

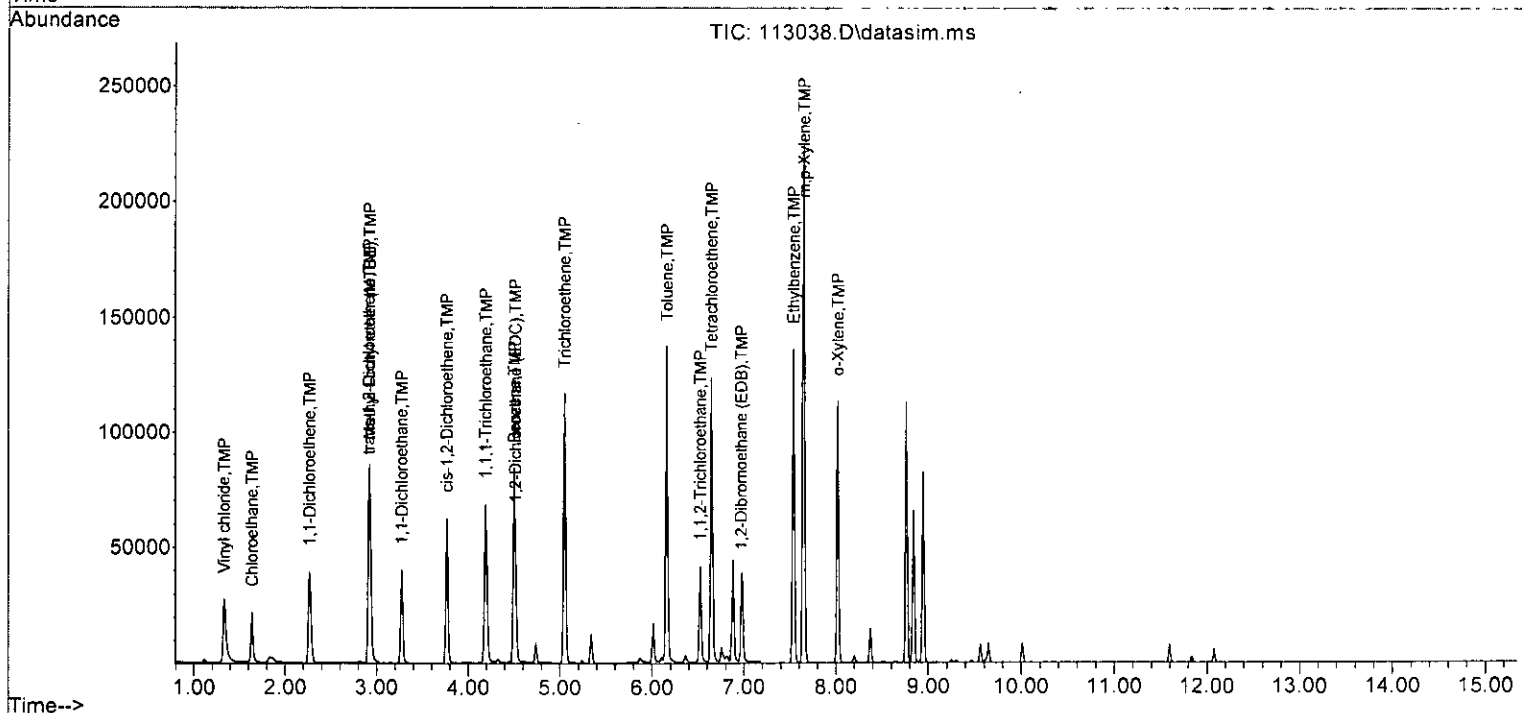
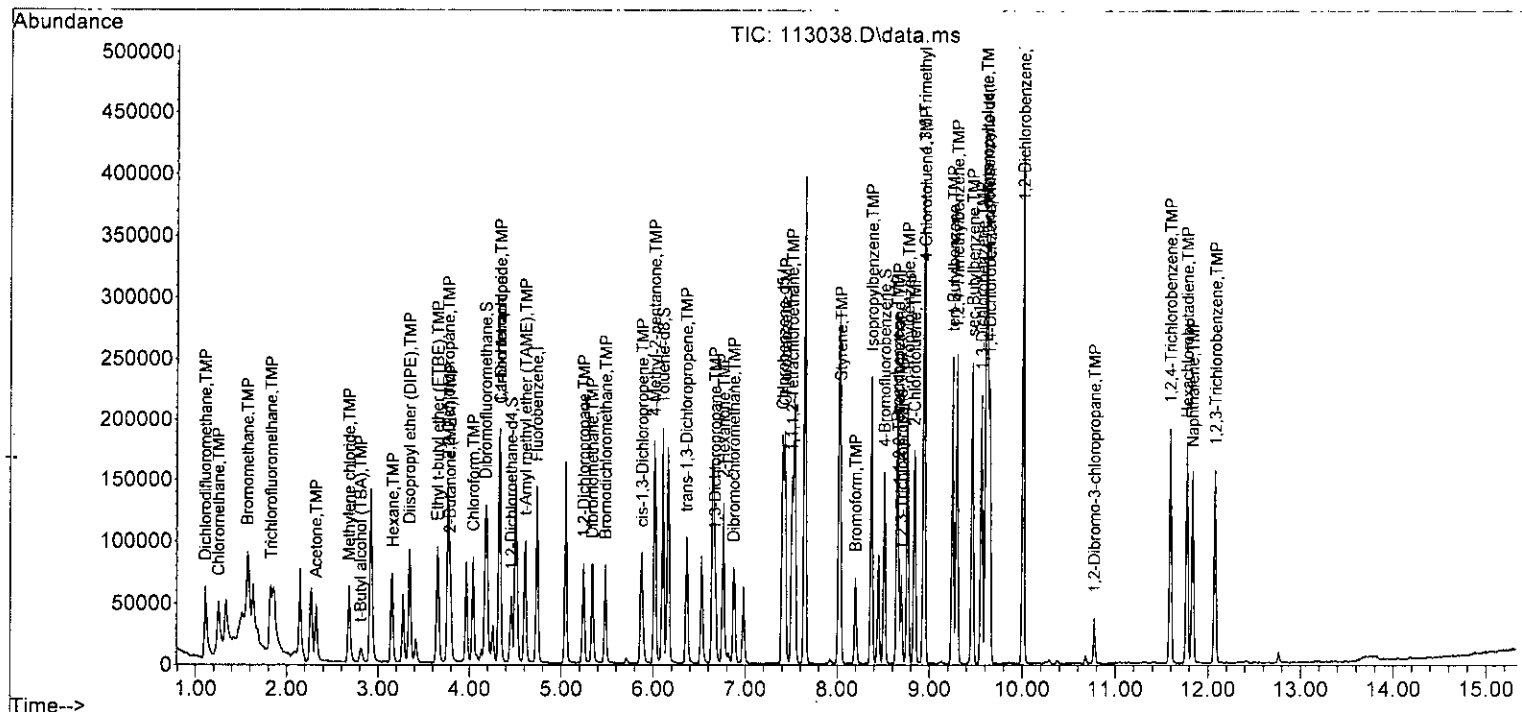
Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	23794	51.987	ppb	100
38) cis-1,3-Dichloropropene	5.88	75	38733	10.225	ppb	100
40] Toluene	6.16	92	73772	10.099	ppb	100
41) trans-1,3-Dichloropropene	6.36	75	36112	9.662	ppb	100
42] 1,1,2-Trichloroethane	6.53	83	20912	10.176	ppb	100
43) 2-Hexanone	6.76	43	73083	49.155	ppb	100
44) 1,3-Dichloropropane	6.67	76	35746	10.068	ppb	100
45] Tetrachloroethene	6.65	164	44699	9.785	ppb	100
46) Dibromochloromethane	6.87	129	44422	9.945	ppb	100
47] 1,2-Dibromoethane (EDB)	6.97	107	34508	10.477	ppb	100
48) Chlorobenzene	7.43	112	98737	9.966	ppb	100
49] Ethylbenzene	7.54	91	136665	10.483	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	42524	9.808	ppb	100
51] m,p-Xylene	7.65	106	119397	20.826	ppb	100
52] o-Xylene	8.02	106	58623	10.219	ppb	100
53) Styrene	8.03	104	88055	9.879	ppb	100
54) Isopropylbenzene	8.37	105	141249	9.936	ppb	100
55) Bromoform	8.20	173	31165	9.810	ppb	100
58) n-Propylbenzene	8.77	91	144942	9.826	ppb	100
59) Bromobenzene	8.65	156	52837	9.846	ppb	100
60) 1,3,5-Trimethylbenzene	8.94	105	116069	9.676	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.66	83	27281	9.751	ppb	100
62) 1,2,3-Trichloropropane	8.70	75	22181	10.061	ppb	99
63) 2-Chlorotoluene	8.84	91	82958	9.899	ppb	100
64) 4-Chlorotoluene	8.95	91	101169	9.976	ppb	100
65) tert-Butylbenzene	9.25	119	124244	9.770	ppb	100
66) 1,2,4-Trimethylbenzene	9.30	105	122955	9.527	ppb	100
67) sec-Butylbenzene	9.46	105	153843	9.827	ppb	100
68) p-Isopropyltoluene	9.61	119	152952	9.754	ppb	100
69) 1,3-Dichlorobenzene	9.56	146	94615	9.809	ppb	100
70) 1,4-Dichlorobenzene	9.64	146	93635	9.844	ppb	100
71) 1,2-Dichlorobenzene	10.01	146	89525	9.635	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.77	75	5497	9.289	ppb	100
73) 1,2,4-Trichlorobenzene	11.59	180	64018	9.824	ppb	100
74) Hexachlorobutadiene	11.77	225	36528	9.513	ppb	100
75) Naphthalene	11.83	128	121672	9.606	ppb	100
76) 1,2,3-Trichlorobenzene	12.08	180	48968	9.495	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	10.432	-4.3	100	0.00
4 TMP Dichlorodifluoromethane	10.000	10.345	-3.5	100	0.00
5 TMP Chloromethane	10.000	10.386	-3.9	100	0.00
6 TMP Vinyl chloride	10.000	11.633	-16.3	100	0.00
7 TMP Bromomethane	10.000	11.664	-16.6	103	0.00
8 TMP Chloroethane	10.000	10.966	-9.7	100	0.00
9 TMP Trichlorofluoromethane	10.000	10.542	-5.4	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	47.079	5.8	100	0.00
12 TMP 1,1-Dichloroethene	10.000	10.947	-9.5	100	0.00
13 TMP Hexane	10.000	10.771	-7.7	100	0.00
14 TMP Methylene chloride	10.000	10.091	-0.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	50.962	-1.9	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.903	-9.0	100	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.797	-8.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	11.444	-14.4	100	0.00
19 TMP 1,1-Dichloroethane	10.000	11.305	-13.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.539	-5.4	100	0.00
21 TMP 2,2-Dichloropropane	10.000	10.987	-9.9	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	11.049	-10.5	100	0.00
23 TMP Chloroform	10.000	10.455	-4.6	100	0.00
24 TMP 2-Butanone (MEK)	50.000	49.387	1.2	100	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	10.716	-7.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	11.065	-10.6	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.932	-9.3	100	0.00
28 TMP 1,1-Dichloropropene	10.000	10.329	-3.3	100	0.00
29 TMP Carbon tetrachloride	10.000	10.169	-1.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.302	-3.0	100	0.00
31 TMP Benzene	10.000	11.337	-13.4	100	0.00
32 TMP Trichloroethene	10.000	11.190	-11.9	100	0.00
33 TMP 1,2-Dichloropropane	10.000	11.259	-12.6	100	0.00
34 TMP Bromodichloromethane	10.000	10.459	-4.6	100	0.00
35 S Toluene-d8	10.000	10.556	-5.6	100	0.00
36 TMP Dibromomethane	10.000	10.686	-6.9	100	0.00
37 TMP 4-Methyl-2-pentanone	50.000	51.987	-4.0	100	0.00
38 TMP cis-1,3-Dichloropropene	10.000	10.225	-2.2	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	10.000	10.099	-1.0	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.662	3.4	100	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.176	-1.8	100	0.00
43 TMP 2-Hexanone	50.000	49.155	1.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.068	-0.7	100	0.00
45 TMP Tetrachloroethene	10.000	9.785	2.1	100	0.00
46 TMP Dibromochloromethane	10.000	9.945	0.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.477	-4.8	100	0.00
48 TMP Chlorobenzene	10.000	9.966	0.3	100	0.00
49 TMP Ethylbenzene	10.000	10.483	-4.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.808	1.9	100	0.00
51 TMP m,p-Xylene	20.000	20.826	-4.1	100	0.00
52 TMP o-Xylene	10.000	10.219	-2.2	100	0.00
53 TMP Styrene	10.000	9.879	1.2	100	0.00
54 TMP Isopropylbenzene	10.000	9.936	0.6	100	0.00
55 TMP Bromoform	10.000	9.810	1.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.031	-0.3	100	0.00
58 TMP n-Propylbenzene	10.000	9.826	1.7	100	0.00
59 TMP Bromobenzene	10.000	9.846	1.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.676	3.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.751	2.5	100	0.00
62 TMP 1,2,3-Trichloropropane	10.000	10.061	-0.6	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.899	1.0	100	0.00
64 TMP 4-Chlorotoluene	10.000	9.976	0.2	100	0.00
65 TMP tert-Butylbenzene	10.000	9.770	2.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.527	4.7	100	0.00
67 TMP sec-Butylbenzene	10.000	9.827	1.7	100	0.00
68 TMP p-Isopropyltoluene	10.000	9.754	2.5	100	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.809	1.9	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.844	1.6	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.635	3.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.289	7.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.824	1.8	100	0.00
74 TMP Hexachlorobutadiene	10.000	9.513	4.9	100	0.00
75 TMP Naphthalene	10.000	9.606	3.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.495	5.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.332	-4.1	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.603	-3.6	100	0.00
5 TMP Chloromethane	0.386	0.401	-3.9	100	0.00
6 TMP Vinyl chloride	0.373	0.434	-16.4	100	0.00
7 TMP Bromomethane	0.385	0.449	-16.6	103	0.00
8 TMP Chloroethane	0.200	0.219	-9.5	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.070	-5.4	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.023	-4.5	100	0.00
12 TMP 1,1-Dichloroethene	0.248	0.271	-9.3	100	0.00
13 TMP Hexane	0.236	0.249	-5.5	100	0.00
14 TMP Methylene chloride	0.247	0.257	-4.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.023#	-4.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.650	-9.1	100	0.00
17 TMP trans-1,2-Dichloroethene	0.274	0.296	-8.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.533	0.611	-14.6	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.385	-12.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.303	-5.6	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.269	9.4	100	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.327	-10.5	100	0.00
23 TMP Chloroform	0.441	0.462	-4.8	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.111	-8.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.551	0.590	-7.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.337	-0.9	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.511	-9.2	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.331	-3.4	100	0.00
29 TMP Carbon tetrachloride	0.497	0.505	-1.6	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.849	0.897	-5.7	100	0.00
32 TMP Trichloroethene	0.304	0.340	-11.8	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.188	0.5	100	0.00
34 TMP Bromodichloromethane	0.316	0.331	-4.7	100	0.00
35 S Toluene-d8	0.899	0.949	-5.6	100	0.00
36 TMP Dibromomethane	0.173	0.185	-6.9	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.041	-2.5	100	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.336	-2.1	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.702	2.4	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.344	3.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.199	2.5	100	0.00
43 TMP 2-Hexanone	0.142	0.139	2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113038.D  
 Acq On : 01 Dec 2022 01:49 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:47 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.340	-0.6	100	0.00
45 TMP Tetrachloroethene	0.443	0.425	4.1	100	0.00
46 TMP Dibromochloromethane	0.425	0.423	0.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.328	2.1	100	0.00
48 TMP Chlorobenzene	0.943	0.940	0.3	100	0.00
49 TMP Ethylbenzene	1.560	1.301	16.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.405	1.9	100	0.00
51 TMP m,p-Xylene	0.718	0.568	20.9#	100	0.00
52 TMP o-Xylene	0.611	0.558	8.7	100	0.00
53 TMP Styrene	0.848	0.838	1.2	100	0.00
54 TMP Isopropylbenzene	1.353	1.345	0.6	100	0.00
55 TMP Bromoform	0.302	0.297	1.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.608	-0.3	100	0.00
58 TMP n-Propylbenzene	2.257	2.218	1.7	100	0.00
59 TMP Bromobenzene	0.821	0.809	1.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.776	3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.417#	3.7	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.339#	-0.6	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.270	0.9	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.548	0.3	100	0.00
65 TMP tert-Butylbenzene	1.946	1.901	2.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.882	4.7	100	0.00
67 TMP sec-Butylbenzene	2.396	2.354	1.8	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.341	2.5	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.448	1.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.433	1.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.370	3.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.084	7.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.980	1.7	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.559	4.9	100	0.00
75 TMP Naphthalene	1.938	1.862	3.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.749	5.1	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	113852	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	103353	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	63199	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	38224	10.539	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	105.40%
30) 1,2-Dichloroethane-d4	4.45	102	7062	10.389	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	103.90%
35) Toluene-d8	6.11	98	108614	10.613	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	106.10%
57) 4-Bromofluorobenzene	8.51	95	38357	10.016	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	100.20%
Target Compounds						
2) Ethanol	2.33	45	717	No Calib		Qvalue
4) Dichlorodifluoromethane	1.12	85	135832	20.484	ppb	93
5) Chloromethane	1.26	50	84851	19.313	ppb	99
6] Vinyl chloride	1.35	62	92646	21.806	ppb	94
7) Bromomethane	1.59	94	95673	21.820	ppb	100
8] Chloroethane	1.65	64	47223	20.760	ppb	91
9) Trichlorofluoromethane	1.84	101	244960	21.190	ppb	96
10) 2-Propanol	2.33	45	717	No Calib	#	
11) Acetone	2.33	58	26440	92.475	ppb	86
12] 1,1-Dichloroethene	2.27	96	59989	21.253	ppb	100
13) Hexane	3.16	57	52139	19.966	ppb	88
14) Methylene chloride	2.69	84	53910	19.314	ppb	93
15) t-Butyl alcohol (TBA)	2.82	59	25865	101.884	ppb	89
16] Methyl t-butyl ether (...)	2.93	73	141919	20.925	ppb	98
17] trans-1,2-Dichloroethene	2.92	96	64305	20.585	ppb	96
18) Diisopropyl ether (DIPE)	3.35	45	130063	21.414	ppb	96
19] 1,1-Dichloroethane	3.28	63	82212	21.198	ppb	97
20) Ethyl t-butyl ether (E...)	3.66	87	66746	20.414	ppb	99
21) 2,2-Dichloropropane	3.77	77	63321	23.062	ppb	94
22] cis-1,2-Dichloroethene	3.77	96	69771	20.686	ppb	90
23) Chloroform	4.04	83	102323	20.357	ppb	99
24) 2-Butanone (MEK)	3.79	43	123004	96.785	ppb	97
25) t-Amyl methyl ether (T...)	4.61	73	128372	20.475	ppb	99
26] 1,2-Dichloroethane (EDC)	4.53	62	72207	20.840	ppb	94
27] 1,1,1-Trichloroethane	4.19	97	110651	20.772	ppb	94
28) 1,1-Dichloropropene	4.33	75	71505	19.621	ppb	99
29) Carbon tetrachloride	4.33	117	115122	20.342	ppb	97
31] Benzene	4.50	78	194752	21.637	ppb	96
32] Trichloroethene	5.05	95	74081	21.398	ppb	89
33) 1,2-Dichloropropane	5.24	63	40158	21.232	ppb	100
34) Bromodichloromethane	5.48	83	71470	19.841	ppb	99
36) Dibromomethane	5.35	93	39889	20.289	ppb	89

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

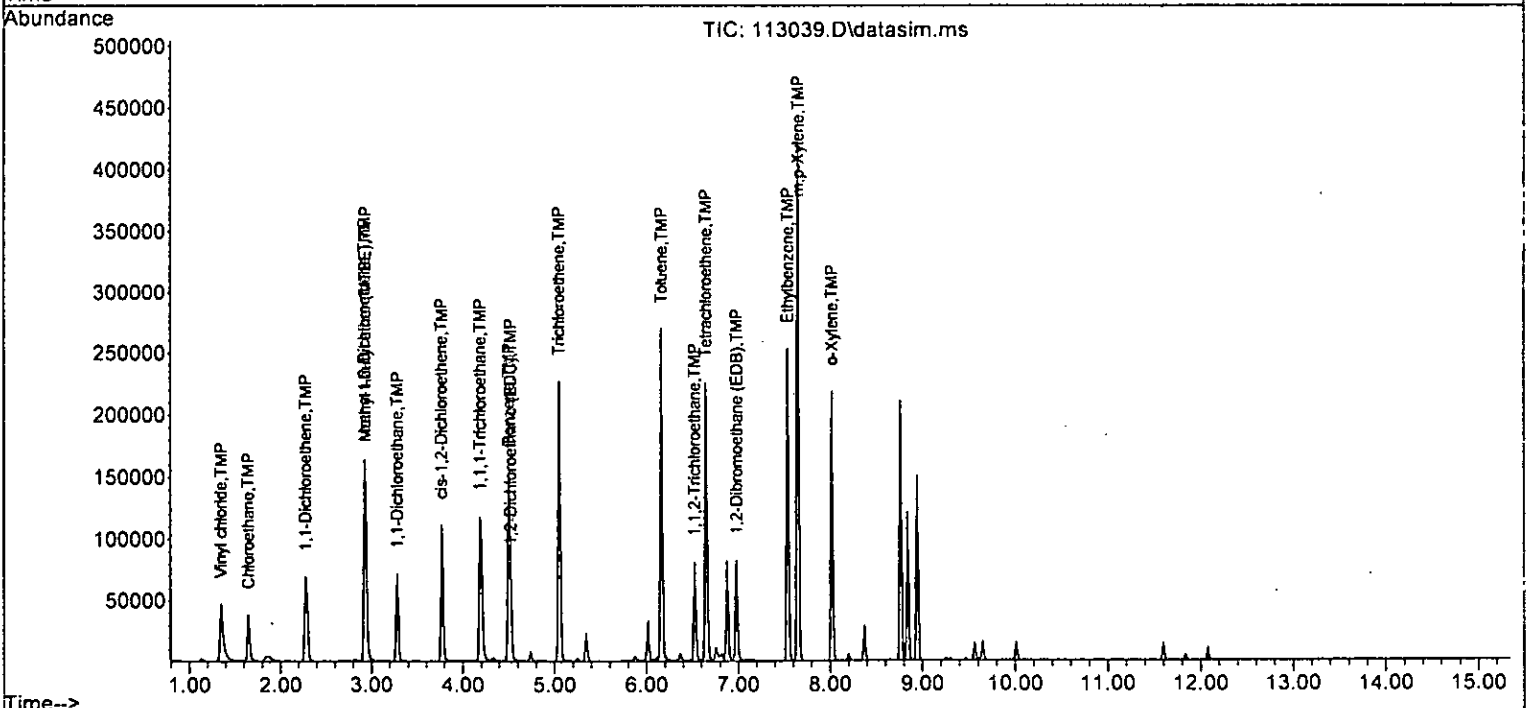
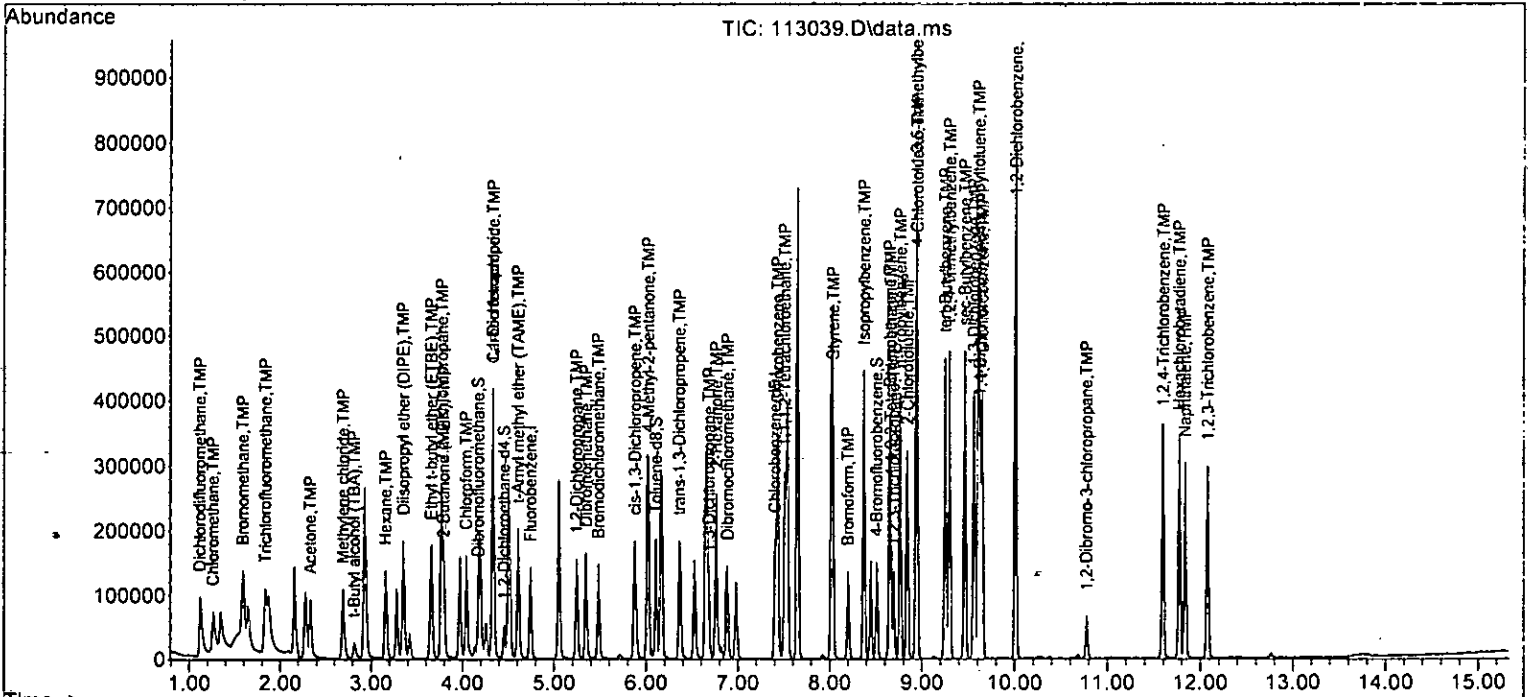
Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	45034	99.658	ppb	86
38) cis-1,3-Dichloropropene	5.88	75	75692	20.238	ppb	98
40] Toluene	6.16	92	139970	19.482	ppb	99
41) trans-1,3-Dichloropropene	6.36	75	69498	18.901	ppb	98
42] 1,1,2-Trichloroethane	6.53	83	39372	19.482	ppb	97
43) 2-Hexanone	6.76	43	137944	94.306	ppb	100
44) 1,3-Dichloropropane	6.68	76	68370	19.573	ppb	96
45] Tetrachloroethene	6.65	164	84658	18.921	ppb	98
46) Dibromochloromethane	6.88	129	84730	19.281	ppb	97
47] 1,2-Dibromoethane (EDB)	6.98	107	65529	20.236	ppb	89
48) Chlorobenzene	7.43	112	185772	19.060	ppb	98
49] Ethylbenzene	7.54	91	254859	19.915	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.51	131	83289	19.527	ppb	98
51] m,p-Xylene	7.65	106	222036	39.474	ppb	99
52] o-Xylene	8.02	106	109667	19.452	ppb	98
53) Styrene	8.03	104	165596	18.883	ppb	99
54) Isopropylbenzene	8.37	105	267149	19.102	ppb	100
55) Bromoform	8.20	173	60396	19.324	ppb	99
58) n-Propylbenzene	8.77	91	270287	18.946	ppb	100
59) Bromobenzene	8.65	156	100820	19.425	ppb	92
60) 1,3,5-Trimethylbenzene	8.94	105	223774	19.287	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.66	83	50688	18.746	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	40040	18.778	ppb	98
63) 2-Chlorotoluene	8.84	91	156735	19.338	ppb	94
64) 4-Chlorotoluene	8.95	91	186992	19.065	ppb	100
65) tert-Butylbenzene	9.25	119	231210	18.799	ppb	100
66) 1,2,4-Trimethylbenzene	9.30	105	232399	18.618	ppb	99
67) sec-Butylbenzene	9.46	105	291634	19.261	ppb	100
68) p-Isopropyltoluene	9.61	119	292452	19.284	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	178502	19.135	ppb	98
70) 1,4-Dichlorobenzene	9.65	146	177480	19.292	ppb	98
71) 1,2-Dichlorobenzene	10.01	146	169301	18.839	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	10739	18.762	ppb	91
73) 1,2,4-Trichlorobenzene	11.60	180	120132	19.061	ppb	97
74) Hexachlorobutadiene	11.77	225	68661	18.487	ppb	98
75) Naphthalene	11.83	128	231905	18.930	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	94469	18.940	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP	Ethanol	-1.000	0.000	0.0	100	0.00
3 S	Dibromofluoromethane	10.000	10.539	-5.4	100	0.00
4 TMP	Dichlorodifluoromethane	20.000	20.484	-2.4	100	0.00
5 TMP	Chloromethane	20.000	19.313	3.4	100	0.00
6 TMP	Vinyl chloride	20.000	21.806	-9.0	100	0.02
7 TMP	Bromomethane	20.000	21.820	-9.1	100	0.02
8 TMP	Chloroethane	20.000	20.760	-3.8	100	0.00
9 TMP	Trichlorofluoromethane	20.000	21.190	-6.0	100	0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	100.000	92.475	7.5	100	0.01
12 TMP	1,1-Dichloroethene	20.000	21.253	-6.3	100	0.01
13 TMP	Hexane	20.000	19.966	0.2	100	0.00
14 TMP	Methylene chloride	20.000	19.314	3.4	100	0.01
15 TMP	t-Butyl alcohol (TBA)	100.000	101.884	-1.9	100	0.01
16 TMP	Methyl t-butyl ether (MTBE)	20.000	20.925	-4.6	100	0.01
17 TMP	trans-1,2-Dichloroethene	20.000	20.585	-2.9	100	0.01
18 TMP	Diisopropyl ether (DIPE)	20.000	21.414	-7.1	100	0.00
19 TMP	1,1-Dichloroethane	20.000	21.198	-6.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	20.000	20.414	-2.1	100	0.00
21 TMP	2,2-Dichloropropane	20.000	23.062	-15.3	100	0.01
22 TMP	cis-1,2-Dichloroethene	20.000	20.686	-3.4	100	0.00
23 TMP	Chloroform	20.000	20.357	-1.8	100	0.00
24 TMP	2-Butanone (MEK)	100.000	96.785	3.2	100	0.01
25 TMP	t-Amyl methyl ether (TAME)	20.000	20.475	-2.4	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	20.000	20.840	-4.2	100	0.01
27 TMP	1,1,1-Trichloroethane	20.000	20.772	-3.9	100	0.00
28 TMP	1,1-Dichloropropene	20.000	19.621	1.9	100	0.00
29 TMP	Carbon tetrachloride	20.000	20.342	-1.7	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.389	-3.9	100	0.00
31 TMP	Benzene	20.000	21.637	-8.2	100	0.00
32 TMP	Trichloroethene	20.000	21.398	-7.0	100	0.00
33 TMP	1,2-Dichloropropane	20.000	21.232	-6.2	100	0.00
34 TMP	Bromodichloromethane	20.000	19.841	0.8	100	0.00
35 S	Toluene-d8	10.000	10.613	-6.1	100	0.00
36 TMP	Dibromomethane	20.000	20.289	-1.4	100	0.01
37 TMP	4-Methyl-2-pentanone	100.000	99.658	0.3	100	0.01
38 TMP	cis-1,3-Dichloropropene	20.000	20.238	-1.2	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	20.000	19.482	2.6	100	0.00
41 TMP	trans-1,3-Dichloropropene	20.000	18.901	5.5	100	0.00
42 TMP	1,1,2-Trichloroethane	20.000	19.482	2.6	100	0.00
43 TMP	2-Hexanone	100.000	94.306	5.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	20.000	19.573	2.1	100	0.01
45 TMP Tetrachloroethene	20.000	18.921	5.4	100	0.00
46 TMP Dibromochloromethane	20.000	19.281	3.6	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	20.000	20.236	-1.2	100	0.01
48 TMP Chlorobenzene	20.000	19.060	4.7	100	0.00
49 TMP Ethylbenzene	20.000	19.915	0.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	20.000	19.527	2.4	100	0.00
51 TMP m,p-Xylene	40.000	39.474	1.3	100	0.00
52 TMP o-Xylene	20.000	19.452	2.7	100	0.00
53 TMP Styrene	20.000	18.883	5.6	100	0.00
54 TMP Isopropylbenzene	20.000	19.102	4.5	100	0.00
55 TMP Bromoform	20.000	19.324	3.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.016	-0.2	100	0.00
58 TMP n-Propylbenzene	20.000	18.946	5.3	100	0.00
59 TMP Bromobenzene	20.000	19.425	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	20.000	19.287	3.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	20.000	18.746	6.3	100	0.00
62 TMP 1,2,3-Trichloropropane	20.000	18.778	6.1	100	0.00
63 TMP 2-Chlorotoluene	20.000	19.338	3.3	100	0.00
64 TMP 4-Chlorotoluene	20.000	19.065	4.7	100	0.00
65 TMP tert-Butylbenzene	20.000	18.799	6.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	20.000	18.618	6.9	100	0.00
67 TMP sec-Butylbenzene	20.000	19.261	3.7	100	0.00
68 TMP p-Isopropyltoluene	20.000	19.284	3.6	100	0.00
69 TMP 1,3-Dichlorobenzene	20.000	19.135	4.3	100	0.00
70 TMP 1,4-Dichlorobenzene	20.000	19.292	3.5	100	0.00
71 TMP 1,2-Dichlorobenzene	20.000	18.839	5.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	20.000	18.762	6.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	20.000	19.061	4.7	100	0.00
74 TMP Hexachlorobutadiene	20.000	18.487	7.6	100	0.00
75 TMP Naphthalene	20.000	18.930	5.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	20.000	18.940	5.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.336	-5.3	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.597	-2.6	100	0.00
5 TMP Chloromethane	0.386	0.373	3.4	100	0.00
6 TMP Vinyl chloride	0.373	0.407	-9.1	100	0.02
7 TMP Bromomethane	0.385	0.420	-9.1	100	0.02
8 TMP Chloroethane	0.200	0.207	-3.5	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.076	-6.0	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.023	-4.5	100	0.01
12 TMP 1,1-Dichloroethene	0.248	0.263	-6.0	100	0.01
13 TMP Hexane	0.236	0.229	3.0	100	0.00
14 TMP Methylene chloride	0.247	0.237	4.0	100	0.01
15 TMP t-Butyl alcohol (TBA)	0.022	0.023#	-4.5	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.623	-4.5	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.282	-2.9	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.571	-7.1	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.361	-5.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.293	-2.1	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.278	6.4	100	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.306	-3.4	100	0.00
23 TMP Chloroform	0.441	0.449	-1.8	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.108	-5.9	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.564	-2.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.317	5.1	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.486	-3.8	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.314	1.9	100	0.00
29 TMP Carbon tetrachloride	0.497	0.506	-1.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.849	0.855	-0.7	100	0.00
32 TMP Trichloroethene	0.304	0.325	-6.9	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.176	6.9	100	0.00
34 TMP Bromodichloromethane	0.316	0.314	0.6	100	0.00
35 S Toluene-d8	0.899	0.954	-6.1	100	0.00
36 TMP Dibromomethane	0.173	0.175	-1.2	100	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.040	0.0	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.332	-0.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.677	5.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.336	5.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.190	6.9	100	0.00
43 TMP 2-Hexanone	0.142	0.133	6.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113039.D  
 Acq On : 01 Dec 2022 02:12 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:51 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.331	2.1	100	0.01
45 TMP Tetrachloroethene	0.443	0.410	7.4	100	0.00
46 TMP Dibromochloromethane	0.425	0.410	3.5	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.317	5.4	100	0.01
48 TMP Chlorobenzene	0.943	0.899	4.7	100	0.00
49 TMP Ethylbenzene	1.560	1.233	21.0#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.403	2.4	100	0.00
51 TMP m,p-Xylene	0.718	0.537	25.2#	100	0.00
52 TMP o-Xylene	0.611	0.531	13.1	100	0.00
53 TMP Styrene	0.848	0.801	5.5	100	0.00
54 TMP Isopropylbenzene	1.353	1.292	4.5	100	0.00
55 TMP Bromoform	0.302	0.292	3.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.607	-0.2	100	0.00
58 TMP n-Propylbenzene	2.257	2.138	5.3	100	0.00
59 TMP Bromobenzene	0.821	0.798	2.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.770	3.6	100	0.00
61 TMP 1,1,1,2-Tetrachloroethane	0.433	0.401#	7.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.317#	5.9	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.240	3.3	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.479	4.7	100	0.00
65 TMP tert-Butylbenzene	1.946	1.829	6.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.839	6.9	100	0.00
67 TMP sec-Butylbenzene	2.396	2.307	3.7	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.314	3.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.412	4.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.404	3.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.339	5.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.085	6.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.950	4.7	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.543	7.7	100	0.00
75 TMP Naphthalene	1.938	1.835	5.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.747	5.3	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 5 Dibromofluoromethane	10.000	10.853	-8.5	100	0.00
4 TMP Dichlorodifluoromethane	50.000	53.594	-7.2	100	0.00
5 TMP Chloromethane	50.000	51.900	-3.8	100	0.00
6 TMP Vinyl chloride	50.000	56.556	-13.1	100	0.00
7 TMP Bromomethane	50.000	51.172	-2.3	100	0.00
8 TMP Chloroethane	50.000	53.499	-7.0	100	0.00
9 TMP Trichlorofluoromethane	50.000	54.248	-8.5	100	0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	250.000	242.282	3.1	100	0.01
12 TMP 1,1-Dichloroethene	50.000	53.795	-7.6	100	0.01
13 TMP Hexane	50.000	52.294	-4.6	100	0.00
14 TMP Methylene chloride	50.000	51.290	-2.6	100	0.01
15 TMP t-Butyl alcohol (TBA)	250.000	255.771	-2.3	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	50.000	53.407	-6.8	100	0.01
17 TMP trans-1,2-Dichloroethene	50.000	52.903	-5.8	100	0.01
18 TMP Diisopropyl ether (DIPE)	50.000	50.127	-0.3	100	0.00
19 TMP 1,1-Dichloroethane	50.000	53.744	-7.5	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	50.000	53.003	-6.0	100	0.00
21 TMP 2,2-Dichloropropane	50.000	58.256	-16.5	100	0.00
22 TMP cis-1,2-Dichloroethene	50.000	52.806	-5.6	100	0.00
23 TMP Chloroform	50.000	52.551	-5.1	100	0.00
24 TMP 2-Butanone (MEK)	250.000	250.805	-0.3	100	0.01
25 TMP t-Amyl methyl ether (TAME)	50.000	53.032	-6.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	50.000	52.556	-5.1	100	0.01
27 TMP 1,1,1-Trichloroethane	50.000	53.465	-6.9	100	0.00
28 TMP 1,1-Dichloropropene	50.000	50.128	-0.3	100	0.00
29 TMP Carbon tetrachloride	50.000	53.826	-7.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.650	-6.5	100	0.00
31 TMP Benzene	50.000	55.612	-11.2	100	0.00
32 TMP Trichloroethene	50.000	54.605	-9.2	100	0.00
33 TMP 1,2-Dichloropropane	50.000	55.423	-10.8	100	0.00
34 TMP Bromodichloromethane	50.000	52.618	-5.2	100	0.00
35 S Toluene-d8	10.000	10.438	-4.4	100	0.00
36 TMP Dibromomethane	50.000	52.864	-5.7	100	0.01
37 TMP 4-Methyl-2-pentanone	250.000	263.434	-5.4	100	0.00
38 TMP cis-1,3-Dichloropropene	50.000	52.626	-5.3	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	50.000	51.773	-3.5	100	0.00
41 TMP trans-1,3-Dichloropropene	50.000	51.408	-2.8	100	0.00
42 TMP 1,1,2-Trichloroethane	50.000	51.263	-2.5	100	0.00
43 TMP 2-Hexanone	250.000	252.610	-1.0	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	50.000	49.709	0.6	100	0.01
45 TMP Tetrachloroethene	50.000	50.739	-1.5	100	0.00
46 TMP Dibromochloromethane	50.000	52.895	-5.8	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	50.000	53.434	-6.9	100	0.01
48 TMP Chlorobenzene	50.000	51.621	-3.2	100	0.00
49 TMP Ethylbenzene	50.000	52.075	-4.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	50.000	51.496	-3.0	100	0.00
51 TMP m,p-Xylene	100.000	102.855	-2.9	100	0.00
52 TMP o-Xylene	50.000	51.158	-2.3	100	0.00
53 TMP Styrene	50.000	50.717	-1.4	100	0.00
54 TMP Isopropylbenzene	50.000	50.818	-1.6	100	0.00
55 TMP Bromoform	50.000	52.888	-5.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.656	3.4	100	0.00
58 TMP n-Propylbenzene	50.000	48.483	3.0	100	0.00
59 TMP Bromobenzene	50.000	50.458	-0.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	50.000	49.676	0.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	50.000	48.132	3.7	100	0.00
62 TMP 1,2,3-Trichloropropane	50.000	48.857	2.3	100	0.00
63 TMP 2-Chlorotoluene	50.000	49.456	1.1	100	0.00
64 TMP 4-Chlorotoluene	50.000	49.350	1.3	100	0.00
65 TMP tert-Butylbenzene	50.000	49.735	0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	50.000	48.756	2.5	100	0.00
67 TMP sec-Butylbenzene	50.000	50.941	-1.9	100	0.00
68 TMP p-Isopropyltoluene	50.000	51.441	-2.9	100	0.00
69 TMP 1,3-Dichlorobenzene	50.000	49.741	0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	50.000	49.937	0.1	100	0.00
71 TMP 1,2-Dichlorobenzene	50.000	49.288	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	50.000	49.133	1.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	50.000	50.891	-1.8	100	0.00
74 TMP Hexachlorobutadiene	50.000	50.378	-0.8	100	0.00
75 TMP Naphthalene	50.000	50.905	-1.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	50.000	50.573	-1.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.346	-8.5	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.624	-7.2	100	0.00
5 TMP Chloromethane	0.386	0.401	-3.9	100	0.00
6 TMP Vinyl chloride	0.373	0.422	-13.1	100	0.00
7 TMP Bromomethane	0.385	0.394	-2.3	100	0.00
8 TMP Chloroethane	0.200	0.214	-7.0	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.102	-8.6	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.024	-9.1	100	0.01
12 TMP 1,1-Dichloroethene	0.248	0.267	-7.7	100	0.01
13 TMP Hexane	0.236	0.238	-0.8	100	0.00
14 TMP Methylene chloride	0.247	0.240	2.8	100	0.01
15 TMP t-Butyl alcohol (TBA)	0.022	0.023#	-4.5	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.636	-6.7	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.290	-5.8	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.535	-0.4	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.366	-7.3	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.304	-5.9	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.279	6.1	100	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.313	-5.7	100	0.00
23 TMP Chloroform	0.441	0.464	-5.2	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.108	-5.9	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.584	-6.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.320	4.2	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.500	-6.8	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.321	-0.3	100	0.00
29 TMP Carbon tetrachloride	0.497	0.535	-7.6	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.064	-6.7	100	0.00
31 TMP Benzene	0.849	0.879	-3.5	100	0.00
32 TMP Trichloroethene	0.304	0.332	-9.2	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.183	3.2	100	0.00
34 TMP Bromodichloromethane	0.316	0.333	-5.4	100	0.00
35 S Toluene-d8	0.899	0.938	-4.3	100	0.00
36 TMP Dibromomethane	0.173	0.183	-5.8	100	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.042	-5.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.346	-5.2	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.720	-0.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.366	-2.8	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.200	2.0	100	0.00
43 TMP 2-Hexanone	0.142	0.143	-0.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.336	0.6	100	0.01
45 TMP Tetrachloroethene	0.443	0.433	2.3	100	0.00
46 TMP Dibromochloromethane	0.425	0.450	-5.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.335	0.0	100	0.01
48 TMP Chlorobenzene	0.943	0.974	-3.3	100	0.00
49 TMP Ethylbenzene	1.560	1.288	17.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.425	-2.9	100	0.00
51 TMP m,p-Xylene	0.718	0.559	22.1#	100	0.00
52 TMP o-Xylene	0.611	0.558	8.7	100	0.00
53 TMP Styrene	0.848	0.861	-1.5	100	0.00
54 TMP Isopropylbenzene	1.353	1.375	-1.6	100	0.00
55 TMP Bromoform	0.302	0.320	-6.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.585	3.5	100	0.00
58 TMP n-Propylbenzene	2.257	2.189	3.0	100	0.00
59 TMP Bromobenzene	0.821	0.829	-1.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.824	0.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.412#	4.8	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.330#	2.1	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.269	1.0	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.532	1.3	100	0.00
65 TMP tert-Butylbenzene	1.946	1.936	0.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.926	2.5	100	0.00
67 TMP sec-Butylbenzene	2.396	2.441	-1.9	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.469	-2.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.468	0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.454	0.1	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.402	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.089	2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.015	-1.8	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.592	-0.7	100	0.00
75 TMP Naphthalene	1.938	1.973	-1.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.798	-1.1	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	111462	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	99189	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	62528	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	38537	10.853	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	108.50%
30) 1,2-Dichloroethane-d4	4.45	102	7088	10.650	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	106.50%
35) Toluene-d8	6.11	98	104583	10.438	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	104.40%
57) 4-Bromofluorobenzene	8.51	95	36588	9.656	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	96.60%
Target Compounds						
						Qvalue
2) Ethanol	2.33	45	1355	No Calib		
4) Dichlorodifluoromethane	1.12	85	347925	53.594	ppb	96
5) Chloromethane	1.26	50	223237	51.900	ppb	97
6] Vinyl chloride	1.34	62	235243	56.556	ppb	100
7) Bromomethane	1.58	94	219658	51.172	ppb	99
8] Chloroethane	1.65	64	119140	53.499	ppb	96
9) Trichlorofluoromethane	1.84	101	613963	54.248	ppb	97
10) 2-Propanol	2.33	45	1355	No Calib	#	
11) Acetone	2.33	58	65765	242.282	ppb	100
12] 1,1-Dichloroethene	2.27	96	148652	53.795	ppb	93
13) Hexane	3.16	57	132892	52.294	ppb	91
14) Methylene chloride	2.69	84	133993	51.290	ppb	98
15) t-Butyl alcohol (TBA)	2.82	59	63569	255.771	ppb	99
16] Methyl t-butyl ether (...	2.93	73	354627	53.407	ppb	96
17] trans-1,2-Dichloroethene	2.92	96	161792	52.903	ppb	91
18) Diisopropyl ether (DIPE)	3.35	45	298064	50.127	ppb	97
19] 1,1-Dichloroethane	3.27	63	204059	53.744	ppb	95
20) Ethyl t-butyl ether (E...	3.66	87	169657	53.003	ppb	96
21) 2,2-Dichloropropane	3.76	77	155346	58.256	ppb	95
22] cis-1,2-Dichloroethene	3.77	96	174367	52.806	ppb	94
23) Chloroform	4.04	83	258596	52.551	ppb	97
24) 2-Butanone (MEK)	3.79	43	301720	250.805	ppb	95
25) t-Amyl methyl ether (T...	4.61	73	325507	53.032	ppb	99
26] 1,2-Dichloroethane (EDC)	4.53	62	178179	52.556	ppb	92
27] 1,1,1-Trichloroethane	4.19	97	278831	53.465	ppb	97
28) 1,1-Dichloropropene	4.33	75	178844	50.128	ppb	98
29) Carbon tetrachloride	4.33	117	298224	53.826	ppb	100
31] Benzene	4.50	78	489860	55.612	ppb	97
32] Trichloroethene	5.05	95	185073	54.605	ppb	92
33) 1,2-Dichloropropane	5.24	63	102087	55.423	ppb	99
34) Bromodichloromethane	5.48	83	185560	52.618	ppb	96
36) Dibromomethane	5.35	93	101753	52.864	ppb	84

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

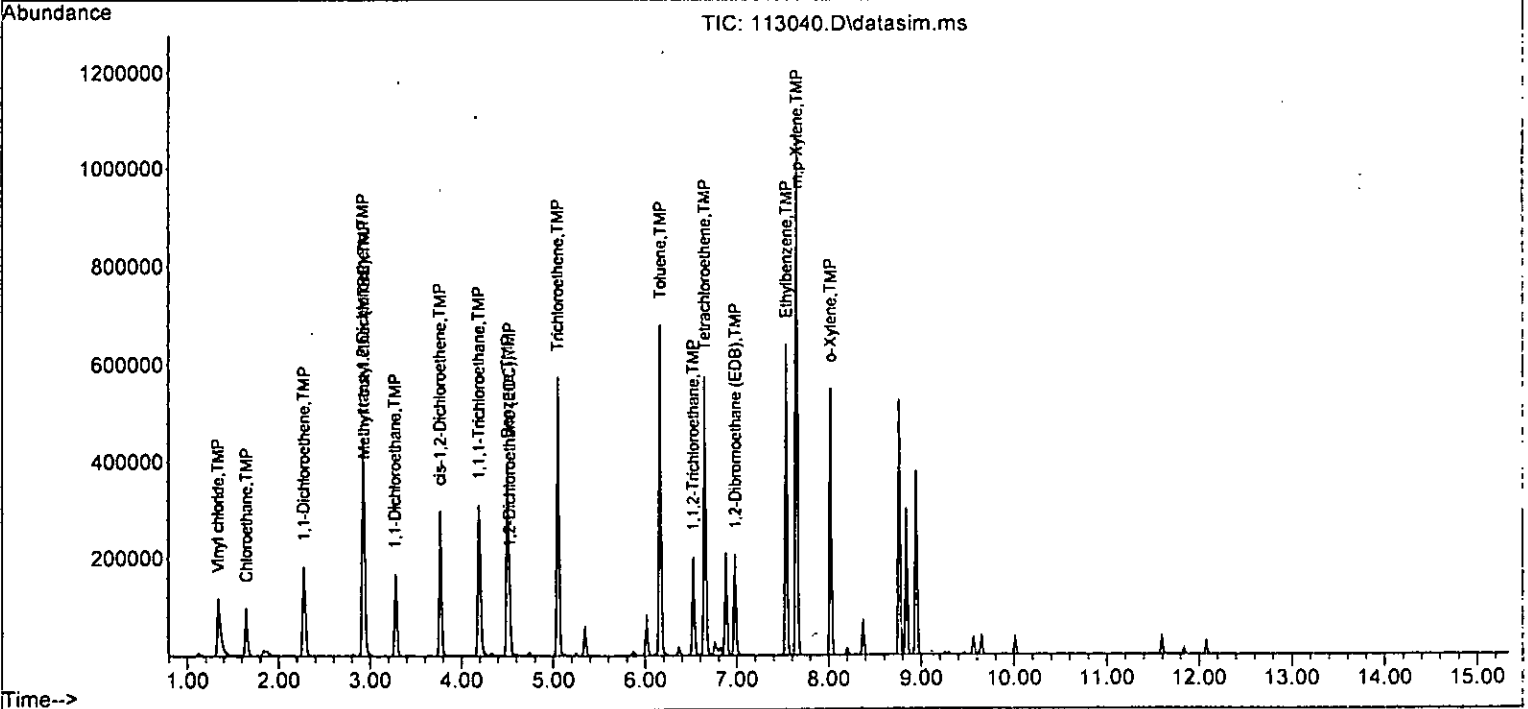
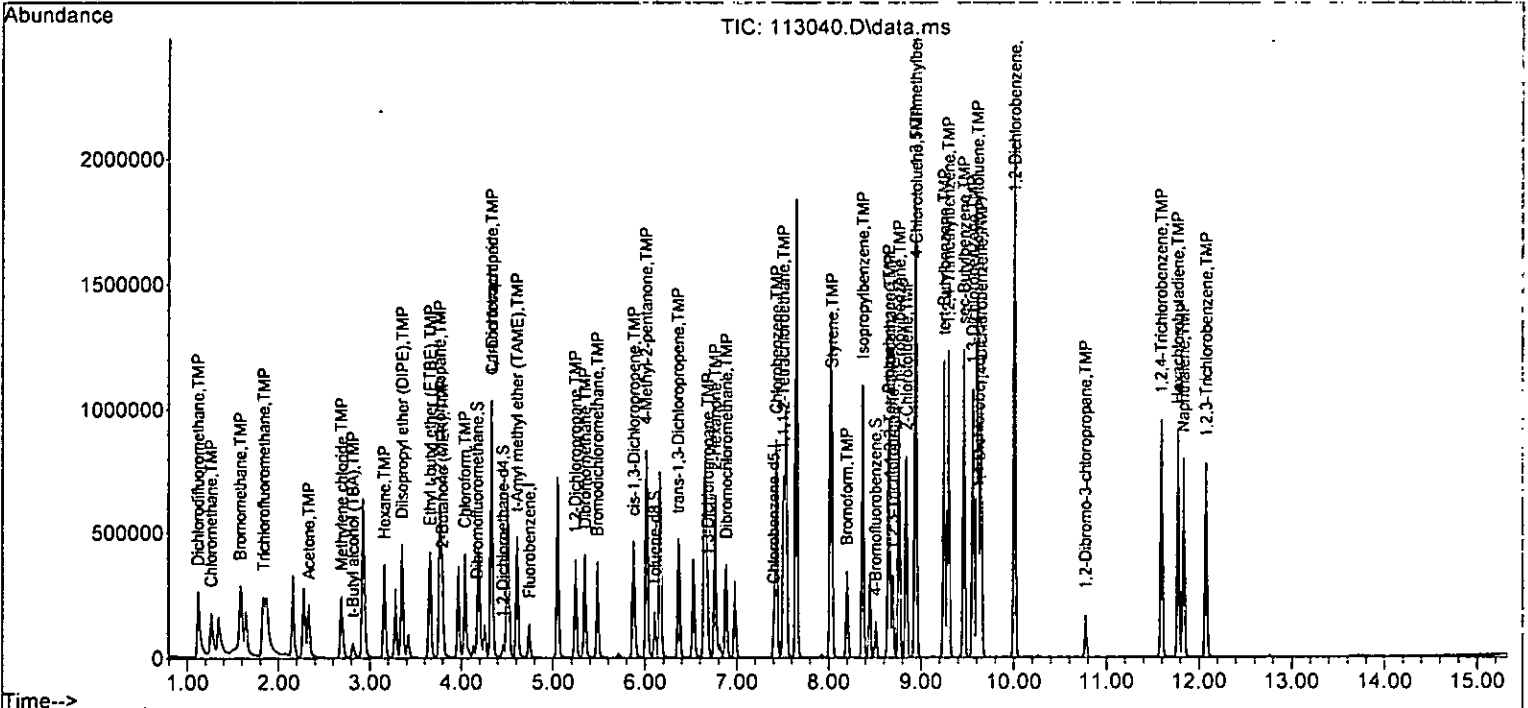
Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	116543	263.434	ppb	91
38) cis-1,3-Dichloropropene	5.88	75	192695	52.626	ppb	99
40] Toluene	6.16	92	356903	51.773	ppb	100
41) trans-1,3-Dichloropropene	6.36	75	181406	51.408	ppb	98
42] 1,1,2-Trichloroethane	6.53	83	99400	51.263	ppb	99
43) 2-Hexanone	6.76	43	354611	252.610	ppb	99
44) 1,3-Dichloropropane	6.68	76	166639	49.709	ppb	96
45] Tetrachloroethene	6.65	164	214713	50.739	ppb	99
46) Dibromochloromethane	6.88	129	223080	52.895	ppb	99
47] 1,2-Dibromoethane (EDB)	6.98	107	165995	53.434	ppb	89
48) Chlorobenzene	7.43	112	482866	51.621	ppb	99
49] Ethylbenzene	7.54	91	638595	52.075	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	210792	51.496	ppb	97
51] m,p-Xylene	7.65	106	554184	102.855	ppb	100
52] o-Xylene	8.02	106	276592	51.158	ppb	98
53) Styrene	8.03	104	426843	50.717	ppb	100
54) Isopropylbenzene	8.37	105	682063	50.818	ppb	99
55) Bromoform	8.20	173	158638	52.888	ppb	98
58) n-Propylbenzene	8.77	91	684347	48.483	ppb	100
59) Bromobenzene	8.65	156	259103	50.458	ppb	90
60) 1,3,5-Trimethylbenzene	8.94	105	570235	49.676	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.66	83	128702	48.132	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	103070	48.857	ppb	99
63) 2-Chlorotoluene	8.84	91	396592	49.456	ppb	94
64) 4-Chlorotoluene	8.95	91	478899	49.350	ppb	99
65) tert-Butylbenzene	9.25	119	605193	49.735	ppb	99
66) 1,2,4-Trimethylbenzene	9.30	105	602144	48.756	ppb	97
67) sec-Butylbenzene	9.46	105	763099	50.941	ppb	99
68) p-Isopropyltoluene	9.61	119	771864	51.441	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	459090	49.741	ppb	99
70) 1,4-Dichlorobenzene	9.65	146	454527	49.937	ppb	99
71) 1,2-Dichlorobenzene	10.01	146	438229	49.288	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	27824	49.133	ppb	98
73) 1,2,4-Trichlorobenzene	11.59	180	317329	50.891	ppb	99
74) Hexachlorobutadiene	11.77	225	185113	50.378	ppb	99
75) Naphthalene	11.83	128	616990	50.905	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	249571	50.573	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113040.D  
 Acq On : 01 Dec 2022 02:35 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:55 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.00
3 S Dibromofluoromethane	10.000	9.784	2.2	100	0.00
4 TMP Dichlorodifluoromethane	100.000	99.939	0.1	100	0.00
5 TMP Chloromethane	100.000	98.520	1.5	100	0.00
6 TMP Vinyl chloride	100.000	104.786	-4.8	100	0.00
7 TMP Bromomethane	100.000	95.062	4.9	100	0.00
8 TMP Chloroethane	100.000	99.438	0.6	100	0.00
9 TMP Trichlorofluoromethane	100.000	101.092	-1.1	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	500.000	535.162	-7.0	100	0.00
12 TMP 1,1-Dichloroethene	100.000	97.329	2.7	100	0.01
13 TMP Hexane	100.000	100.500	-0.5	100	0.00
14 TMP Methylene chloride	100.000	98.691	1.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	500.000	470.455	5.9	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	100.000	96.635	3.4	100	0.01
17 TMP trans-1,2-Dichloroethene	100.000	94.982	5.0	100	0.01
18 TMP Diisopropyl ether (DIPE)	100.000	101.291	-1.3	100	0.00
19 TMP 1,1-Dichloroethane	100.000	96.701	3.3	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	100.000	98.719	1.3	100	0.00
21 TMP 2,2-Dichloropropane	100.000	103.358	-3.4	100	0.00
22 TMP cis-1,2-Dichloroethene	100.000	95.308	4.7	100	0.00
23 TMP Chloroform	100.000	95.695	4.3	100	0.00
24 TMP 2-Butanone (MEK)	500.000	506.395	-1.3	100	0.00
25 TMP t-Amyl methyl ether (TAME)	100.000	96.007	4.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	100.000	95.133	4.9	100	0.00
27 TMP 1,1,1-Trichloroethane	100.000	97.457	2.5	100	0.00
28 TMP 1,1-Dichloropropene	100.000	91.502	8.5	100	0.00
29 TMP Carbon tetrachloride	100.000	100.004	-0.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.231	7.7	100	0.00
31 TMP Benzene	100.000	101.563	-1.6	100	0.00
32 TMP Trichloroethene	100.000	97.486	2.5	100	0.00
33 TMP 1,2-Dichloropropane	100.000	101.546	-1.5	100	0.00
34 TMP Bromodichloromethane	100.000	98.274	1.7	100	0.00
35 S Toluene-d8	10.000	10.252	-2.5	100	0.00
36 TMP Dibromomethane	100.000	98.699	1.3	100	0.00
37 TMP 4-Methyl-2-pentanone	500.000	518.133	-3.6	100	0.00
38 TMP cis-1,3-Dichloropropene	100.000	100.287	-0.3	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	100.000	99.872	0.1	100	0.00
41 TMP trans-1,3-Dichloropropene	100.000	99.704	0.3	100	0.00
42 TMP 1,1,2-Trichloroethane	100.000	99.363	0.6	100	0.00
43 TMP 2-Hexanone	500.000	515.828	-3.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\V8113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	100.000	96.567	3.4	100	0.01
45 TMP Tetrachloroethene	100.000	99.827	0.2	100	0.00
46 TMP Dibromochloromethane	100.000	105.205	-5.2	100	0.01
47 TMP 1,2-Dibromoethane (ED8)	100.000	103.845	-3.8	100	0.01
48 TMP Chlorobenzene	100.000	99.491	0.5	100	0.00
49 TMP Ethylbenzene	100.000	98.717	1.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	100.000	102.344	-2.3	100	0.00
51 TMP m,p-Xylene	200.000	197.219	1.4	100	0.00
52 TMP o-Xylene	100.000	99.033	1.0	100	0.00
53 TMP Styrene	100.000	98.366	1.6	100	0.00
54 TMP Isopropylbenzene	100.000	98.946	1.1	100	0.00
55 TMP Bromoform	100.000	108.437	-8.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.809	1.9	100	0.00
58 TMP n-Propylbenzene	100.000	96.793	3.2	100	0.00
59 TMP Bromobenzene	100.000	101.587	-1.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	100.000	99.582	0.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	100.000	99.874	0.1	100	0.00
62 TMP 1,2,3-Trichloropropane	100.000	98.729	1.3	100	0.00
63 TMP 2-Chlorotoluene	100.000	97.977	2.0	100	0.00
64 TMP 4-Chlorotoluene	100.000	96.967	3.0	100	0.00
65 TMP tert-Butylbenzene	100.000	99.671	0.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	100.000	98.876	1.1	100	0.00
67 TMP sec-Butylbenzene	100.000	102.787	-2.8	100	0.00
68 TMP p-Isopropyltoluene	100.000	103.835	-3.8	100	0.00
69 TMP 1,3-Dichlorobenzene	100.000	100.113	-0.1	100	0.00
70 TMP 1,4-Dichlorobenzene	100.000	100.406	-0.4	100	0.00
71 TMP 1,2-Dichlorobenzene	100.000	100.276	-0.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	100.000	101.530	-1.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	100.000	104.782	-4.8	100	0.00
74 TMP Hexachlorobutadiene	100.000	100.664	-0.7	100	0.00
75 TMP Naphthalene	100.000	105.416	-5.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	100.000	105.081	-5.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-45  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.00
3 S Dibromofluoromethane	0.319	0.312	2.2	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.582	0.0	100	0.00
5 TMP Chloromethane	0.386	0.380	1.6	100	0.00
6 TMP Vinyl chloride	0.373	0.391	-4.8	100	0.00
7 TMP Bromomethane	0.385	0.366	4.9	100	0.00
8 TMP Chloroethane	0.200	0.199	0.5	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.026	-1.1	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.024	-9.1	100	0.00
12 TMP 1,1-Dichloroethene	0.248	0.241	2.8	100	0.01
13 TMP Hexane	0.236	0.229	3.0	100	0.00
14 TMP Methylene chloride	0.247	0.222	10.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.021#	4.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.576	3.4	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.261	4.7	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.540	-1.3	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.329	3.5	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.283	1.4	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.247	16.8	100	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.282	4.7	100	0.00
23 TMP Chloroform	0.441	0.422	4.3	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.102	0.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.551	0.529	4.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.289	13.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.456	2.6	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.293	8.4	100	0.00
29 TMP Carbon tetrachloride	0.497	0.497	0.0	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	100	0.00
31 TMP Benzene	0.849	0.803	5.4	100	0.00
32 TMP Trichloroethene	0.304	0.296	2.6	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.168	11.1	100	0.00
34 TMP Bromodichloromethane	0.316	0.311	1.6	100	0.00
35 S Toluene-d8	0.899	0.922	-2.6	100	0.00
36 TMP Dibromomethane	0.173	0.170	1.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.041	-2.5	100	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.329	0.0	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.694	3.5	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.355	0.3	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.194	4.9	100	0.00
43 TMP 2-Hexanone	0.142	0.146	-2.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.326	3.6	100	0.01
45 TMP Tetrachloroethene	0.443	0.416	6.1	100	0.00
46 TMP Dibromochloromethane	0.425	0.447	-5.2	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.325	3.0	100	0.01
48 TMP Chlorobenzene	0.943	0.938	0.5	100	0.00
49 TMP Ethylbenzene	1.560	1.220	21.8#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.422	-2.2	100	0.00
51 TMP m,p-Xylene	0.718	0.535	25.5#	100	0.00
52 TMP o-Xylene	0.611	0.540	11.6	100	0.00
53 TMP Styrene	0.848	0.835	1.5	100	0.00
54 TMP Isopropylbenzene	1.353	1.339	1.0	100	0.00
55 TMP Bromoform	0.302	0.328	-8.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.594	2.0	100	0.00
58 TMP n-Propylbenzene	2.257	2.185	3.2	100	0.00
59 TMP Bromobenzene	0.821	0.834	-1.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.828	0.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.427#	1.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.333#	1.2	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.257	2.0	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.505	3.0	100	0.00
65 TMP tert-Butylbenzene	1.946	1.940	0.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.953	1.1	100	0.00
67 TMP sec-Butylbenzene	2.396	2.463	-2.8	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.492	-3.8	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.478	-0.1	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.462	-0.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.426	-0.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.092	-1.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.045	-4.8	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.592	-0.7	100	0.00
75 TMP Naphthalene	1.938	2.043	-5.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.829	-5.1	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	119165	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	103163	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	63316	10.000	ppb	# 0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	37143	9.784	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.80%	
30) 1,2-Dichloroethane-d4	4.45	102	6568	9.231	ppb	0.00	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	92.30%	
35) Toluene-d8	6.10	98	109813	10.252	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	102.50%	
57) 4-Bromofluorobenzene	8.51	95	37636	9.809	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.10%	
<b>Target Compounds</b>							
2) Ethanol	2.33	45	2247	No Calib			Qvalue
4) Dichlorodifluoromethane	1.11	85	693626	99.939	ppb		94
5) Chloromethane	1.25	50	453045	98.520	ppb		97
6] Vinyl chloride	1.34	62	465978	104.786	ppb		94
7) Bromomethane	1.58	94	436259	95.062	ppb		98
8] Chloroethane	1.64	64	236746	99.438	ppb		93
9) Trichlorofluoromethane	1.83	101	1223188	101.092	ppb		99
10) 2-Propanol	2.33	45	2247	No Calib			
11) Acetone	2.32	58	142294	535.162	ppb		100
12] 1,1-Dichloroethene	2.27	96	287539	97.329	ppb		85
13) Hexane	3.16	57	272559	100.500	ppb		94
14) Methylene chloride	2.68	84	264352	98.691	ppb		97
15) t-Butyl alcohol (T8A)	2.81	59	125007	470.455	ppb		96
16] Methyl t-butyl ether (...)	2.93	73	686003	96.635	ppb		94
17] trans-1,2-Dichloroethene	2.92	96	310556	94.982	ppb		85
18) Diisopropyl ether (DIPE)	3.35	45	643922	101.291	ppb		96
19] 1,1-Dichloroethane	3.27	63	392532	96.701	ppb		98
20) Ethyl t-butyl ether (E...)	3.65	87	337828	98.719	ppb		98
21) 2,2-Dichloropropane	3.76	77	293984	103.358	ppb		95
22] cis-1,2-Dichloroethene	3.77	96	336461	95.308	ppb		99
23) Chloroform	4.04	83	503443	95.695	ppb		98
24) 2-Butanone (MEK)	3.78	43	610655	506.395	ppb		99
25) t-Amyl methyl ether (T...)	4.61	73	630012	96.007	ppb		97
26] 1,2-Dichloroethane (EDC)	4.52	62	344758	95.133	ppb		100
27] 1,1,1-Trichloroethane	4.19	97	543379	97.457	ppb		99
28) 1,1-Dichloropropene	4.33	75	349019	91.502	ppb		97
29) Carbon tetrachloride	4.33	117	592363	100.004	ppb		99
31] Benzene	4.50	78	956350	101.563	ppb		99
32] Trichloroethene	5.05	95	353243	97.486	ppb		98
33) 1,2-Dichloropropane	5.24	63	199672	101.546	ppb		98
34) Bromodichloromethane	5.48	83	370524	98.274	ppb		98
36) Dibromomethane	5.34	93	203104	98.699	ppb		97

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-45  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

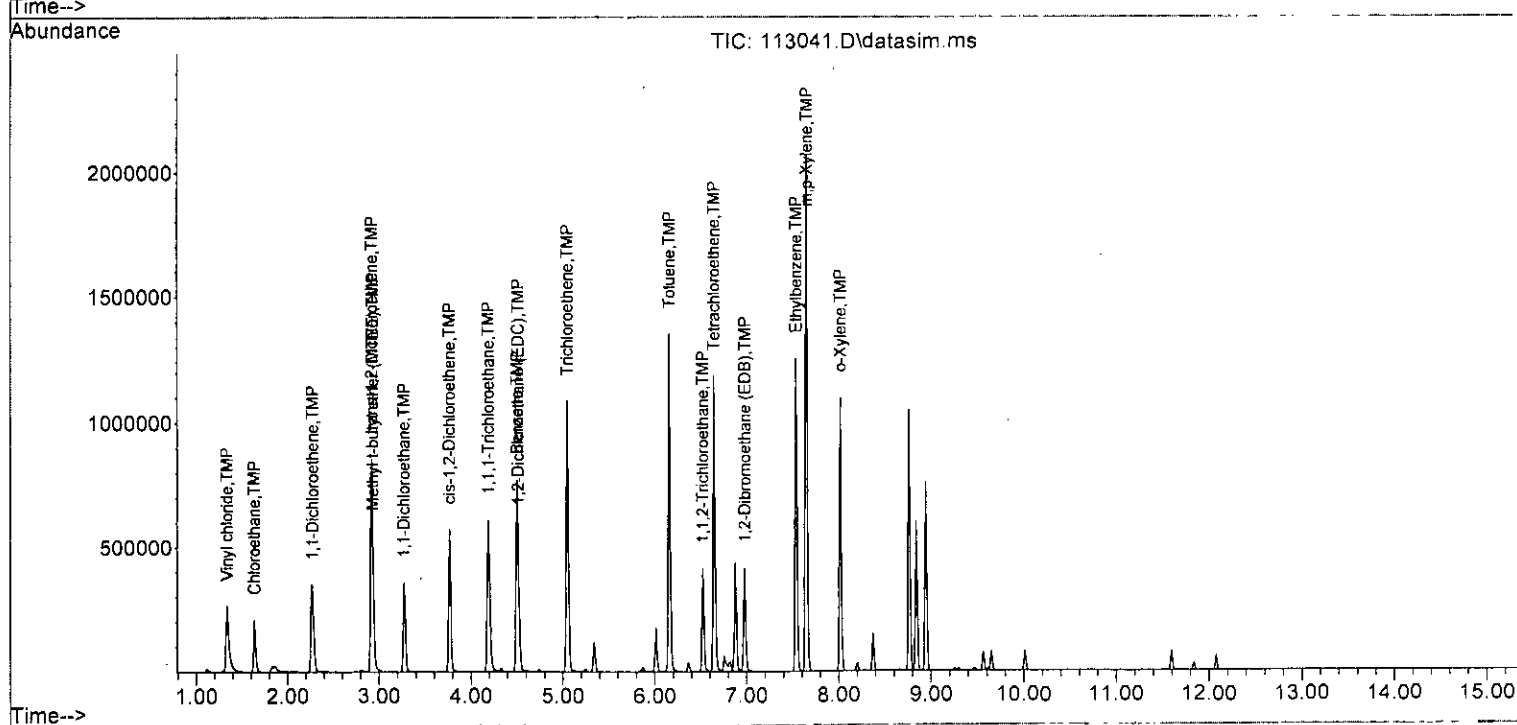
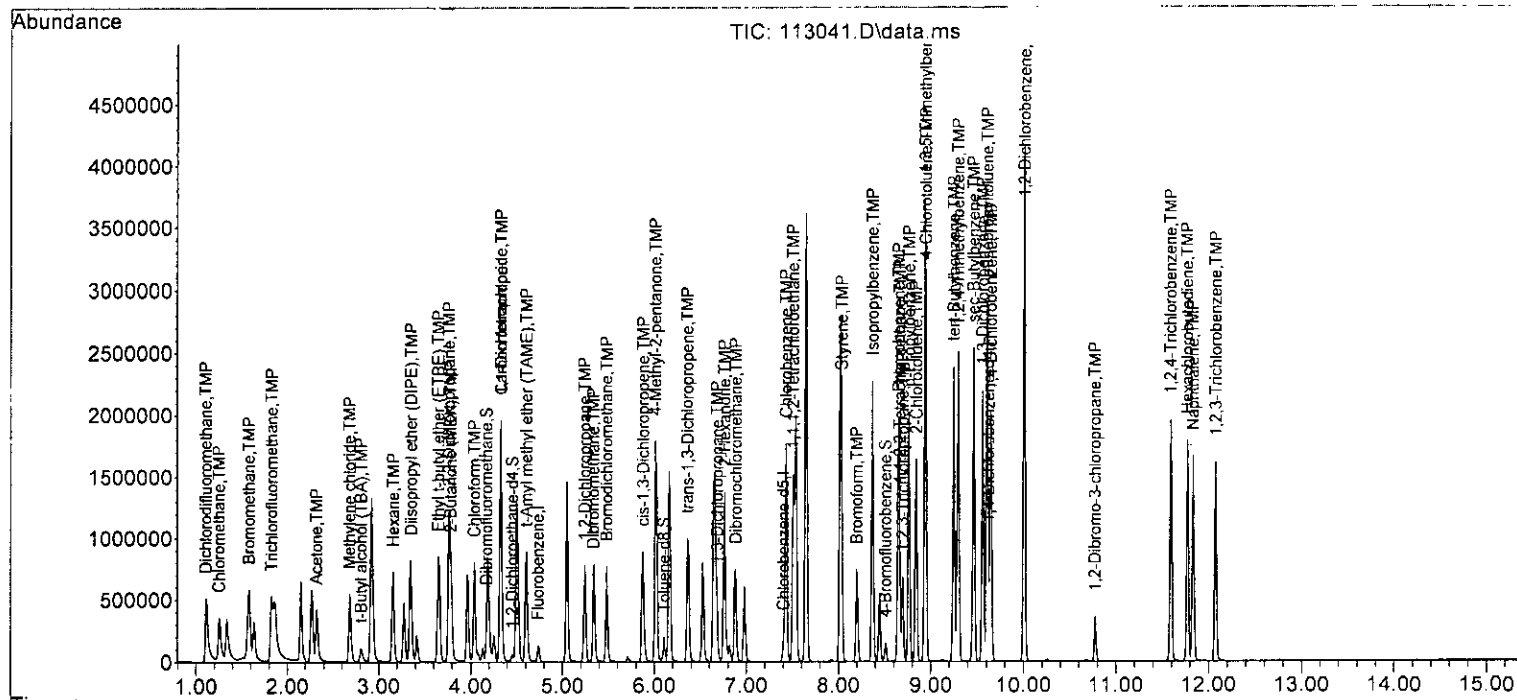
Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	245063	518.133	ppb	92
38) cis-1,3-Dichloropropene	5.88	75	392585	100.287	ppb	96
40] Toluene	6.16	92	716026	99.872	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	365924	99.704	ppb	97
42] 1,1,2-Trichloroethane	6.53	83	200373	99.363	ppb	99
43) 2-Hexanone	6.76	43	753126	515.828	ppb	99
44) 1,3-Dichloropropane	6.68	76	336688	96.567	ppb	96
45] Tetrachloroethene	6.65	164	429493	99.827	ppb	100
46) Dibromochloromethane	6.88	129	461472	105.205	ppb	100
47] 1,2-Dibromoethane (EDB)	6.98	107	335484	103.845	ppb	88
48) Chlorobenzene	7.43	112	967927	99.491	ppb	100
49] Ethylbenzene	7.54	91	1258512	98.717	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.51	131	435717	102.344	ppb	98
51] m,p-Xylene	7.65	106	1104572	197.219	ppb	98
52] o-Xylene	8.02	106	556772	99.033	ppb	99
53) Styrene	8.03	104	861024	98.366	ppb	98
54) Isopropylbenzene	8.37	105	1381231	98.946	ppb	98
55) Bromoform	8.20	173	338291	108.437	ppb	98
58) n-Propylbenzene	8.77	91	1383463	96.793	ppb	99
59) Bromobenzene	8.65	156	528224	101.587	ppb	91
60) 1,3,5-Trimethylbenzene	8.94	105	1157512	99.582	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.66	83	270382	99.874	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	210905	98.729	ppb	98
63) 2-Chlorotoluene	8.84	91	795581	97.977	ppb	95
64) 4-Chlorotoluene	8.95	91	952842	96.967	ppb	99
65) tert-Butylbenzene	9.25	119	1228113	99.671	ppb	98
66) 1,2,4-Trimethylbenzene	9.30	105	1236506	98.876	ppb	98
67) sec-Butylbenzene	9.46	105	1559170	102.787	ppb	100
68) p-Isopropyltoluene	9.61	119	1577642	103.835	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	935655	100.113	ppb	99
70) 1,4-Dichlorobenzene	9.65	146	925416	100.406	ppb	99
71) 1,2-Dichlorobenzene	10.01	146	902819	100.276	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.77	75	58221	101.530	ppb	94
73) 1,2,4-Trichlorobenzene	11.59	180	661592	104.782	ppb	99
74) Hexachlorobutadiene	11.77	225	374549	100.664	ppb	99
75) Naphthalene	11.83	128	1293786	105.416	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	525093	105.081	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113041.D  
 Acq On : 01 Dec 2022 02:58 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:14:59 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	-0.01
3 S Dibromofluoromethane	10.000	9.621	3.8	100	0.00
4 TMP Dichlorodifluoromethane	150.000	153.942	-2.6	100	0.00
5 TMP Chloromethane	150.000	147.515	1.7	100	0.00
6 TMP Vinyl chloride	150.000	157.271	-4.8	100	0.00
7 TMP Bromomethane	150.000	138.922	7.4	100	0.00
8 TMP Chloroethane	150.000	147.194	1.9	100	0.00
9 TMP Trichlorofluoromethane	150.000	152.886	-1.9	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-0.01
11 TMP Acetone	750.000	784.265	-4.6	100	0.00
12 TMP 1,1-Dichloroethene	150.000	147.070	2.0	100	0.00
13 TMP Hexane	150.000	148.724	0.9	100	0.00
14 TMP Methylene chloride	150.000	151.780	-1.2	100	0.00
15 TMP t-Butyl alcohol (TBA)	750.000	709.522	5.4	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	150.000	142.593	4.9	100	0.00
17 TMP trans-1,2-Dichloroethene	150.000	143.665	4.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	150.000	146.620	2.3	100	0.00
19 TMP 1,1-Dichloroethane	150.000	144.070	4.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	150.000	146.981	2.0	100	0.00
21 TMP 2,2-Dichloropropane	150.000	155.771	-3.8	100	0.00
22 TMP cis-1,2-Dichloroethene	150.000	143.466	4.4	100	0.00
23 TMP Chloroform	150.000	143.617	4.3	100	0.00
24 TMP 2-Butanone (MEK)	750.000	781.318	-4.2	100	0.00
25 TMP t-Amyl methyl ether (TAME)	150.000	144.279	3.8	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	150.000	138.995	7.3	100	0.00
27 TMP 1,1,1-Trichloroethane	150.000	146.055	2.6	100	0.00
28 TMP 1,1-Dichloropropene	150.000	137.634	8.2	100	0.00
29 TMP Carbon tetrachloride	150.000	151.128	-0.8	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.289	7.1	100	0.00
31 TMP Benzene	150.000	152.013	-1.3	100	0.00
32 TMP Trichloroethene	150.000	150.083	-0.1	100	0.00
33 TMP 1,2-Dichloropropane	150.000	151.341	-0.9	100	0.00
34 TMP Bromodichloromethane	150.000	147.218	1.9	100	0.00
35 S Toluene-d8	10.000	9.919	0.8	100	0.00
36 TMP Dibromomethane	150.000	145.874	2.8	100	0.00
37 TMP 4-Methyl-2-pentanone	750.000	749.754	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	150.000	149.586	0.3	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	150.000	151.207	-0.8	100	0.00
41 TMP trans-1,3-Dichloropropene	150.000	153.753	-2.5	100	0.00
42 TMP 1,1,2-Trichloroethane	150.000	150.178	-0.1	100	0.00
43 TMP 2-Hexanone	750.000	740.412	1.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	150.000	144.539	3.6	100	0.00
45 TMP Tetrachloroethene	150.000	154.165	-2.8	100	0.00
46 TMP Dibromochloromethane	150.000	162.637	-8.4	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	150.000	153.380	-2.3	100	0.01
48 TMP Chlorobenzene	150.000	153.503	-2.3	100	0.00
49 TMP Ethylbenzene	150.000	147.582	1.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	150.000	157.993	-5.3	100	0.00
51 TMP m,p-Xylene	300.000	297.635	0.8	100	0.00
52 TMP o-Xylene	150.000	150.869	-0.6	100	0.00
53 TMP Styrene	150.000	151.312	-0.9	100	0.00
54 TMP Isopropylbenzene	150.000	152.860	-1.9	100	0.00
55 TMP Bromoform	150.000	169.357	-12.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.822	1.8	100	0.00
58 TMP n-Propylbenzene	150.000	142.000	5.3	100	0.00
59 TMP Bromobenzene	150.000	151.209	-0.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	150.000	147.273	1.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	150.000	142.346	5.1	100	0.00
62 TMP 1,2,3-Trichloropropane	150.000	146.291	2.5	100	0.00
63 TMP 2-Chlorotoluene	150.000	145.432	3.0	100	0.00
64 TMP 4-Chlorotoluene	150.000	142.553	5.0	100	0.00
65 TMP tert-Butylbenzene	150.000	149.449	0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	150.000	148.256	1.2	100	0.00
67 TMP sec-Butylbenzene	150.000	154.864	-3.2	100	0.00
68 TMP p-Isopropyltoluene	150.000	155.869	-3.9	100	0.00
69 TMP 1,3-Dichlorobenzene	150.000	150.725	-0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	150.000	150.690	-0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	150.000	150.648	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	150.000	153.271	-2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	150.000	159.201	-6.1	100	0.00
74 TMP Hexachlorobutadiene	150.000	153.794	-2.5	100	0.00
75 TMP Naphthalene	150.000	158.946	-6.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	150.000	160.751	-7.2	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	-0.01
3 S Dibromofluoromethane	0.319	0.307	3.8	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.598	-2.7	100	0.00
5 TMP Chloromethane	0.386	0.380	1.6	100	0.00
6 TMP Vinyl chloride	0.373	0.391	-4.8	100	0.00
7 TMP Bromomethane	0.385	0.357	7.3	100	0.00
8 TMP Chloroethane	0.200	0.196	2.0	100	0.00
9 TMP Trichlorofluoromethane	1.015	1.035	-2.0	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-0.01
11 TMP Acetone	0.022	0.021	4.5	100	0.00
12 TMP 1,1-Dichloroethene	0.248	0.243	2.0	100	0.00
13 TMP Hexane	0.236	0.226	4.2	100	0.00
14 TMP Methylene chloride	0.247	0.218	11.7	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.021#	4.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.566	5.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.274	0.263	4.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.533	0.521	2.3	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.327	4.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.281	2.1	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.248	16.5	100	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.283	4.4	100	0.00
23 TMP Chloroform	0.441	0.423	4.1	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.098	3.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.551	0.530	3.8	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.282	15.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.468	0.456	2.6	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.294	8.1	100	0.00
29 TMP Carbon tetrachloride	0.497	0.501	-0.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	100	0.00
31 TMP Benzene	0.849	0.801	5.7	100	0.00
32 TMP Trichloroethene	0.304	0.304	0.0	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.166	12.2	100	0.00
34 TMP Bromodichloromethane	0.316	0.311	1.6	100	0.00
35 S Toluene-d8	0.899	0.892	0.8	100	0.00
36 TMP Dibromomethane	0.173	0.168	2.9	100	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.040	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.328	0.3	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.701	2.5	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.365	-2.5	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.196	3.9	100	0.00
43 TMP 2-Hexanone	0.142	0.140	1.4	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.326	3.6	100	0.00
45 TMP Tetrachloroethene	0.443	0.418	5.6	100	0.00
46 TMP Dibromochloromethane	0.425	0.461	-8.5	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.320	4.5	100	0.01
48 TMP Chlorobenzene	0.943	0.965	-2.3	100	0.00
49 TMP Ethylbenzene	1.560	1.216	22.1#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.435	-5.3	100	0.00
51 TMP m,p-Xylene	0.718	0.539	24.9#	100	0.00
52 TMP o-Xylene	0.611	0.548	10.3	100	0.00
53 TMP Styrene	0.848	0.856	-0.9	100	0.00
54 TMP Isopropylbenzene	1.353	1.379	-1.9	100	0.00
55 TMP Bromoform	0.302	0.341	-12.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.595	1.8	100	0.00
58 TMP n-Propylbenzene	2.257	2.137	5.3	100	0.00
59 TMP Bromobenzene	0.821	0.828	-0.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.802	1.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.406#	6.2	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.329#	2.4	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.243	3.0	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.475	5.0	100	0.00
65 TMP tert-Butylbenzene	1.946	1.939	0.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.952	1.2	100	0.00
67 TMP sec-Butylbenzene	2.396	2.473	-3.2	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.494	-3.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.483	-0.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.462	-0.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.428	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.093	-2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.058	-6.1	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.603	-2.6	100	0.00
75 TMP Naphthalene	1.938	2.054	-6.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.846	-7.2	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.73	96	117219	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	99384	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	63257	10.000	ppb	# 0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.17	113	35928	9.621	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	96.20%
30) 1,2-Dichloroethane-d4	4.45	102	6501	9.289	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	92.90%
35) Toluene-d8	6.11	98	104513	9.919	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	99.20%
57) 4-Bromofluorobenzene	8.51	95	37650	9.822	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	98.20%
<b>Target Compounds</b>						
2) Ethanol	2.32	45	3375	No Calib		Qvalue
4) Dichlorodifluoromethane	1.11	85	1050990	153.942	ppb	95
5) Chloromethane	1.25	50	667273	147.515	ppb	96
6] Vinyl chloride	1.33	62	687955	157.271	ppb	100
7) Bromomethane	1.57	94	627133	138.922	ppb	95
8] Chloroethane	1.64	64	344723	147.194	ppb	97
9) Trichlorofluoromethane	1.83	101	1819681	152.886	ppb	99
10) 2-Propanol	2.32	45	3375	No Calib	#	
11) Acetone	2.32	58	188547	784.265	ppb	87
12] 1,1-Dichloroethene	2.26	96	427393	147.070	ppb	96
13) Hexane	3.16	57	396505	148.724	ppb	92
14) Methylene chloride	2.68	84	382832	151.780	ppb	98
15) t-Butyl alcohol (TBA)	2.81	59	185452	709.522	ppb	98
16] Methyl t-butyl ether (...)	2.92	73	995729	142.593	ppb	99
17] trans-1,2-Dichloroethene	2.91	96	462063	143.665	ppb	98
18) Diisopropyl ether (DIPE)	3.34	45	916868	146.620	ppb	98
19] 1,1-Dichloroethane	3.27	63	575263	144.070	ppb	99
20) Ethyl t-butyl ether (E...)	3.65	87	494774	146.981	ppb	99
21) 2,2-Dichloropropane	3.76	77	435392	155.771	ppb	96
22] cis-1,2-Dichloroethene	3.77	96	498200	143.466	ppb	98
23) Chloroform	4.04	83	743218	143.617	ppb	99
24) 2-Butanone (MEK)	3.78	43	859502	781.318	ppb	97
25) t-Amyl methyl ether (T...)	4.61	73	931321	144.279	ppb	99
26] 1,2-Dichloroethane (EDC)	4.52	62	495455	138.995	ppb	98
27] 1,1,1-Trichloroethane	4.19	97	801042	146.055	ppb	100
28) 1,1-Dichloropropene	4.33	75	516411	137.634	ppb	95
29) Carbon tetrachloride	4.33	117	880569	151.128	ppb	99
31] Benzene	4.50	78	1407955	152.013	ppb	100
32] Trichloroethene	5.05	95	534948	150.083	ppb	98
33) 1,2-Dichloropropane	5.24	63	292552	151.341	ppb	99
34) Bromodichloromethane	5.48	83	545993	147.218	ppb	99
36) Dibromomethane	5.34	93	295279	145.874	ppb	98

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

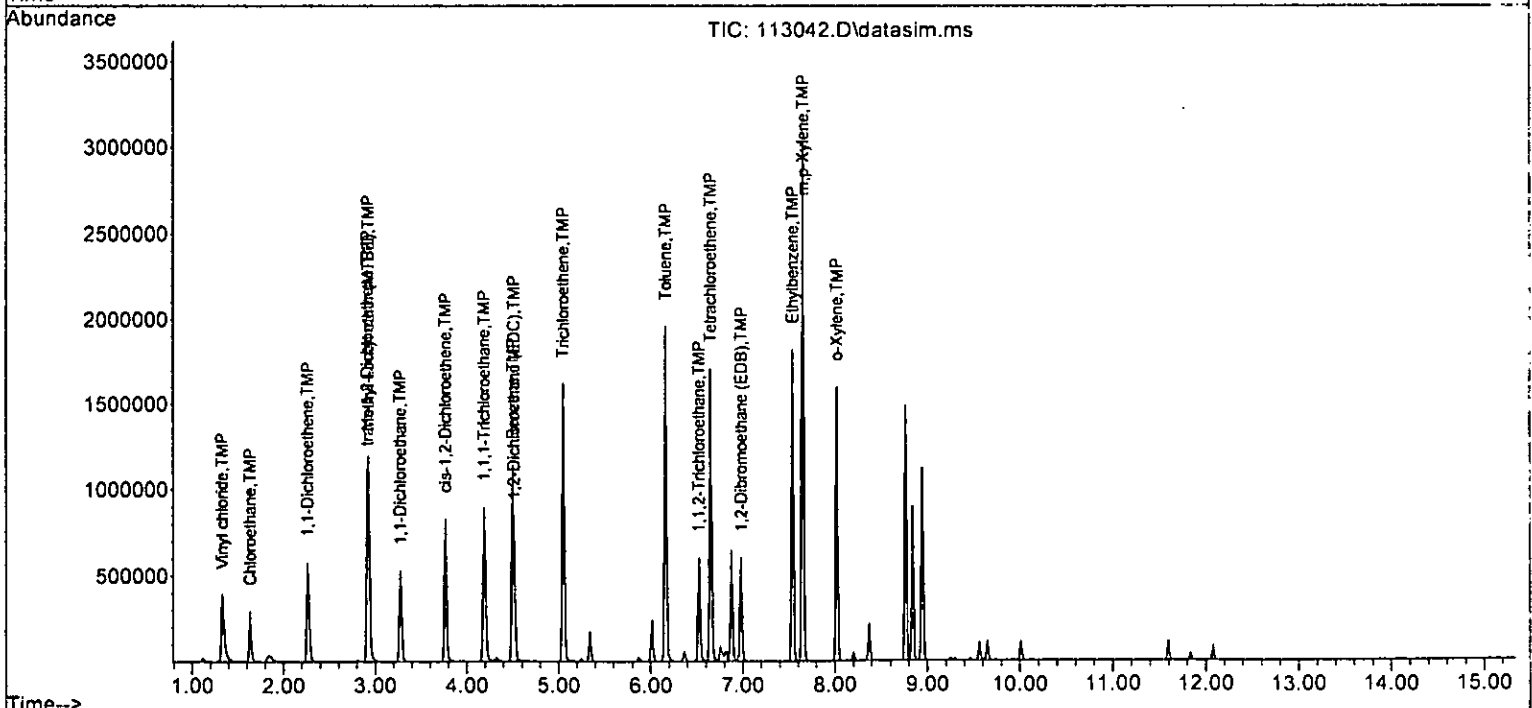
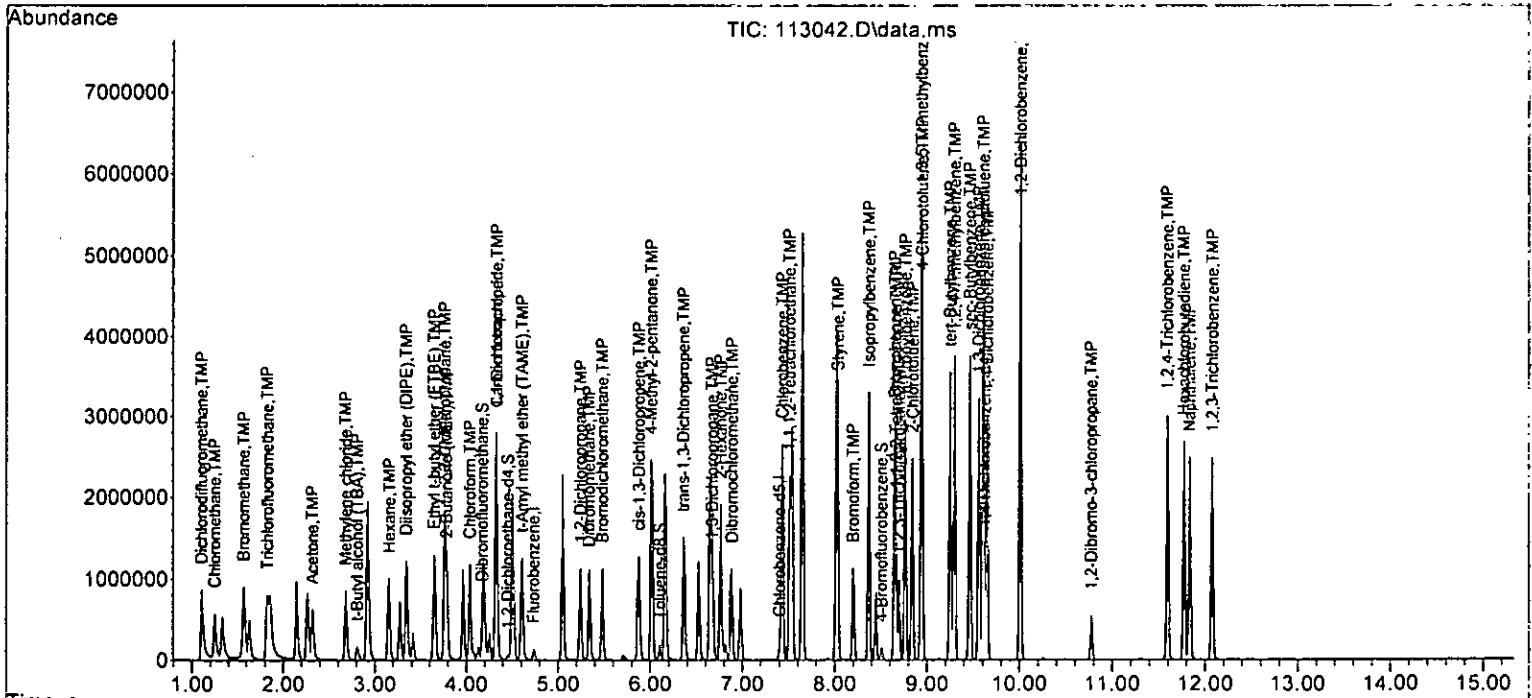
Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	348823	749.754	ppb	93
38) cis-1,3-Dichloropropene	5.88	75	576011	149.586	ppb	96
40] Toluene	6.16	92	1044328	151.207	ppb	97
41) trans-1,3-Dichloropropene	6.36	75	543621	153.753	ppb	96
42] 1,1,2-Trichloroethane	6.53	83	291743	150.178	ppb	100
43) 2-Hexanone	6.76	43	1041427	740.412	ppb	99
44) 1,3-Dichloropropane	6.67	76	485486	144.539	ppb	98
45] Tetrachloroethene	6.65	164	622759	154.165	ppb	100
46) Dibromochloromethane	6.88	129	687259	162.637	ppb	100
47] 1,2-Dibromoethane (EDB)	6.98	107	477345	153.380	ppb	87
48) Chlorobenzene	7.43	112	1438695	153.503	ppb	99
49] Ethylbenzene	7.54	91	1812258	147.582	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.51	131	647996	157.993	ppb	97
51] m,p-Xylene	7.65	106	1605574	297.635	ppb	97
52] o-Xylene	8.02	106	817061	150.869	ppb	99
53) Styrene	8.03	104	1275966	151.312	ppb	98
54) Isopropylbenzene	8.37	105	2055675	152.860	ppb	98
55) Bromoform	8.20	173	508990	169.357	ppb	97
58) n-Propylbenzene	8.77	91	2027700	142.000	ppb	100
59) Bromobenzene	8.65	156	785512	151.209	ppb	90
60) 1,3,5-Trimethylbenzene	8.94	105	1710262	147.273	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.66	83	384989	142.346	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	312216	146.291	ppb	98
63) 2-Chlorotoluene	8.84	91	1179819	145.432	ppb	93
64) 4-Chlorotoluene	8.95	91	1399496	142.553	ppb	98
65) tert-Butylbenzene	9.25	119	1839752	149.449	ppb	98
66) 1,2,4-Trimethylbenzene	9.30	105	1852317	148.256	ppb	97
67) sec-Butylbenzene	9.46	105	2346929	154.864	ppb	100
68) p-Isopropyltoluene	9.61	119	2366037	155.869	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	1407356	150.725	ppb	99
70) 1,4-Dichlorobenzene	9.65	146	1387577	150.690	ppb	98
71) 1,2-Dichlorobenzene	10.01	146	1355064	150.648	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	87809	153.271	ppb	94
73) 1,2,4-Trichlorobenzene	11.59	180	1004258	159.201	ppb	99
74) Hexachlorobutadiene	11.77	225	571703	153.794	ppb	99
75) Naphthalene	11.83	128	1948939	158.946	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	802525	160.751	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113042.D  
 Acq On : 01 Dec 2022 03:22 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:02 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.01
2 TMP Ethanol	-1.000	0.000	0.0	100	0.01
3 S Dibromofluoromethane	10.000	9.568	4.3	100	0.00
4 TMP Dichlorodifluoromethane	200.000	186.745	6.6	100	0.02
5 TMP Chloromethane	200.000	180.578	9.7	100	0.01
6 TMP Vinyl chloride	200.000	191.884	4.1	100	0.02
7 TMP Bromomethane	200.000	171.730	14.1	100	0.02
8 TMP Chloroethane	200.000	181.174	9.4	100	0.00
9 TMP Trichlorofluoromethane	200.000	186.595	6.7	100	0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.01
11 TMP Acetone	1000.000	946.210	5.4	100	0.01
12 TMP 1,1-Dichloroethene	200.000	182.556	8.7	100	0.02
13 TMP Hexane	200.000	198.246	0.9	100	0.00
14 TMP Methylene chloride	200.000	199.000	0.5	100	0.01
15 TMP t-Butyl alcohol (TBA)	1000.000	888.173	11.2	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	200.000	174.426	12.8	100	0.01
17 TMP trans-1,2-Dichloroethene	200.000	179.149	10.4	100	0.01
18 TMP Diisopropyl ether (DIPE)	200.000	180.863	9.6	100	0.00
19 TMP 1,1-Dichloroethane	200.000	177.819	11.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	200.000	182.578	8.7	100	0.00
21 TMP 2,2-Dichloropropane	200.000	179.541	10.2	100	0.01
22 TMP cis-1,2-Dichloroethene	200.000	177.244	11.4	100	0.01
23 TMP Chloroform	200.000	178.043	11.0	100	0.00
24 TMP 2-Butanone (MEK)	1000.000	968.069	3.2	100	0.01
25 TMP t-Amyl methyl ether (TAME)	200.000	177.996	11.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	200.000	169.882	15.1	100	0.01
27 TMP 1,1,1-Trichloroethane	200.000	179.141	10.4	100	0.00
28 TMP 1,1-Dichloropropene	200.000	174.020	13.0	100	0.00
29 TMP Carbon tetrachloride	200.000	188.584	5.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.243	-2.4	100	0.01
31 TMP Benzene	200.000	187.627	6.2	100	0.00
32 TMP Trichloroethene	200.000	169.826	15.1	100	0.00
33 TMP 1,2-Dichloropropane	200.000	189.233	5.4	100	0.00
34 TMP Bromodichloromethane	200.000	182.228	8.9	100	0.00
35 S Toluene-d8	10.000	10.207	-2.1	100	0.00
36 TMP Dibromomethane	200.000	181.966	9.0	100	0.01
37 TMP 4-Methyl-2-pentanone	1000.000	926.619	7.3	100	0.01
38 TMP cis-1,3-Dichloropropene	200.000	188.824	5.6	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	200.000	186.319	6.8	100	0.00
41 TMP trans-1,3-Dichloropropene	200.000	186.091	7.0	100	0.00
42 TMP 1,1,2-Trichloroethane	200.000	183.562	8.2	100	0.00
43 TMP 2-Hexanone	1000.000	894.969	10.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	200.000	176.483	11.8	100	0.01
45 TMP Tetrachloroethene	200.000	196.750	1.6	100	0.00
46 TMP Dibromochloromethane	200.000	197.992	1.0	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	200.000	188.407	5.8	100	0.01
48 TMP Chlorobenzene	200.000	187.989	6.0	100	0.00
49 TMP Ethylbenzene	200.000	179.962	10.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	200.000	192.113	3.9	100	0.00
51 TMP m,p-Xylene	400.000	363.499	9.1	100	0.00
52 TMP o-Xylene	200.000	183.452	8.3	100	0.00
53 TMP Styrene	200.000	184.517	7.7	100	0.00
54 TMP Isopropylbenzene	200.000	187.037	6.5	100	0.00
55 TMP Bromoform	200.000	209.783	-4.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.667	3.3	100	0.00
58 TMP n-Propylbenzene	200.000	178.180	10.9	100	0.00
59 TMP Bromobenzene	200.000	189.676	5.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	200.000	186.632	6.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	200.000	202.626	-1.3	100	0.00
62 TMP 1,2,3-Trichloropropane	200.000	182.562	8.7	100	0.00
63 TMP 2-Chlorotoluene	200.000	181.804	9.1	100	0.00
64 TMP 4-Chlorotoluene	200.000	179.365	10.3	100	0.00
65 TMP tert-Butylbenzene	200.000	187.546	6.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	200.000	187.456	6.3	100	0.00
67 TMP sec-Butylbenzene	200.000	194.980	2.5	100	0.00
68 TMP p-Isopropyltoluene	200.000	197.073	1.5	100	0.00
69 TMP 1,3-Dichlorobenzene	200.000	188.578	5.7	100	0.00
70 TMP 1,4-Dichlorobenzene	200.000	188.964	5.5	100	0.00
71 TMP 1,2-Dichlorobenzene	200.000	188.064	6.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	200.000	191.540	4.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	200.000	204.783	-2.4	100	0.00
74 TMP Hexachlorobutadiene	200.000	192.410	3.8	100	0.00
75 TMP Naphthalene	200.000	201.583	-0.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	200.000	205.372	-2.7	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.01
2 TMP Ethanol	0.000	0.000#	0.0	100	0.01
3 S Dibromofluoromethane	0.319	0.305	4.4	100	0.00
4 TMP Dichlorodifluoromethane	0.582	0.544	6.5	100	0.02
5 TMP Chloromethane	0.386	0.348	9.8	100	0.01
6 TMP Vinyl chloride	0.373	0.358	4.0	100	0.02
7 TMP Bromomethane	0.385	0.331	14.0	100	0.02
8 TMP Chloroethane	0.200	0.181	9.5	100	0.00
9 TMP Trichlorofluoromethane	1.015	0.947	6.7	100	0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.01
11 TMP Acetone	0.022	0.018	18.2	100	0.01
12 TMP 1,1-Dichloroethene	0.248	0.226	8.9	100	0.02
13 TMP Hexane	0.236	0.225	4.7	100	0.00
14 TMP Methylene chloride	0.247	0.206	16.6	100	0.01
15 TMP t-Butyl alcohol (TBA)	0.022	0.020#	9.1	100	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.520	12.8	100	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.246	10.2	100	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.482#	9.6	100	0.00
19 TMP 1,1-Dichloroethane	0.341	0.303	11.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.262	8.7	100	0.00
21 TMP 2,2-Dichloropropane	0.297	0.214	27.9#	100	0.01
22 TMP cis-1,2-Dichloroethene	0.296	0.263	11.1	100	0.01
23 TMP Chloroform	0.441	0.393	10.9	100	0.00
24 TMP 2-Butanone (MEK)	0.102	0.086	15.7	100	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.490#	11.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.258	22.8#	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.419	10.5	100	0.00
28 TMP 1,1-Dichloropropene	0.320	0.279	12.8	100	0.00
29 TMP Carbon tetrachloride	0.497	0.469	5.6	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.01
31 TMP Benzene	0.849	0.741	12.7	100	0.00
32 TMP Trichloroethene	0.304	0.258	15.1	100	0.00
33 TMP 1,2-Dichloropropane	0.189	0.156	17.5	100	0.00
34 TMP Bromodichloromethane	0.316	0.288	8.9	100	0.00
35 S Toluene-d8	0.899	0.917	-2.0	100	0.00
36 TMP Dibromomethane	0.173	0.157	9.2	100	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.037	7.5	100	0.01
38 TMP cis-1,3-Dichloropropene	0.329	0.310	5.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.719	0.647	10.0	100	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.331	7.0	100	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.179	12.3	100	0.00
43 TMP 2-Hexanone	0.142	0.127	10.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.298#	11.8	100	0.01
45 TMP Tetrachloroethene	0.443	0.392	11.5	100	0.00
46 TMP Dibromochloromethane	0.425	0.421	0.9	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.295	11.9	100	0.01
48 TMP Chlorobenzene	0.943	0.886	6.0	100	0.00
49 TMP Ethylbenzene	1.560	1.112	28.7#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.396	4.1	100	0.00
51 TMP m,p-Xylene	0.718	0.493	31.3#	100	0.00
52 TMP o-Xylene	0.611	0.500	18.2	100	0.00
53 TMP Styrene	0.848	0.783	7.7	100	0.00
54 TMP Isopropylbenzene	1.353	1.265	6.5	100	0.00
55 TMP Bromoform	0.302	0.317	-5.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.606	0.586	3.3	100	0.00
58 TMP n-Propylbenzene	2.257	2.011	10.9	100	0.00
59 TMP Bromobenzene	0.821	0.779	5.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.713	6.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.433#	0.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.308#	8.6	100	0.00
63 TMP 2-Chlorotoluene	1.282	1.166	9.0	100	0.00
64 TMP 4-Chlorotoluene	1.552	1.392	10.3	100	0.00
65 TMP tert-Butylbenzene	1.946	1.825	6.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	1.851	6.3	100	0.00
67 TMP sec-Butylbenzene	2.396	2.336	2.5	100	0.00
68 TMP p-Isopropyltoluene	2.400	2.365	1.5	100	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.392	5.7	100	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.375	5.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.337	6.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.087	4.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.021	-2.4	100	0.00
74 TMP Hexachlorobutadiene	0.588	0.565	3.9	100	0.00
75 TMP Naphthalene	1.938	1.954	-0.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.810	-2.7	100	0.00

(#) = Out of Range

SPCC's out = 7 CCC's out = 0



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCM513

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.75	96	117120	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	100115	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	62157	10.000	ppb	# 0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	35699	9.568	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	95.70%	
30) 1,2-Dichloroethane-d4	4.47	102	7163	10.243	ppb	0.01	
Spiked Amount	10.000	Range	84 - 120	Recovery	=	102.40%	
35) Toluene-d8	6.11	98	107450	10.207	ppb	0.00	
Spiked Amount	10.000	Range	73 - 128	Recovery	=	102.10%	
57) 4-Bromofluorobenzene	8.51	95	36410	9.667	ppb	0.00	
Spiked Amount	10.000	Range	57 - 146	Recovery	=	96.70%	
Target Compounds							
							Qvalue
2) Ethanol	2.34	45	3910	No Calib			
4) Dichlorodifluoromethane	1.13	85	1273859	186.745	ppb	96	
5) Chloromethane	1.26	50	816144	180.578	ppb	97	
6] Vinyl chloride	1.35	62	838658	191.884	ppb	95	
7) Bromomethane	1.59	94	774583	171.730	ppb	98	
8] Chloroethane	1.65	64	423945	181.174	ppb	91	
9) Trichlorofluoromethane	1.84	101	2219014	186.595	ppb	99	
10) 2-Propanol	2.34	45	3910	No Calib			
11) Acetone	2.33	58	214203	946.210	ppb	99	
12] 1,1-Dichloroethene	2.28	96	530068	182.556	ppb	84	
13) Hexane	3.17	57	527914	198.246	ppb	93	
14) Methylene chloride	2.69	84	482218	199.000	ppb	96	
15) t-Butyl alcohol (TBA)	2.82	59	231951	888.173	ppb	96	
16] Methyl t-butyl ether (...)	2.93	73	1216988	174.426	ppb	98	
17] trans-1,2-Dichloroethene	2.92	96	575701	179.149	ppb	97	
18) Diisopropyl ether (DIPE)	3.35	45	1130044	180.863	ppb	98	
19] 1,1-Dichloroethane	3.28	63	709422	177.819	ppb	98	
20) Ethyl t-butyl ether (E...)	3.66	87	614083	182.578	ppb	96	
21) 2,2-Dichloropropane	3.77	77	501274	179.541	ppb	99	
22] cis-1,2-Dichloroethene	3.78	96	614975	177.244	ppb	93	
23) Chloroform	4.04	83	920593	178.043	ppb	98	
24) 2-Butanone (MEK)	3.79	43	1007272	968.069	ppb	96	
25) t-Amyl methyl ether (T...)	4.61	73	1147998	177.996	ppb	98	
26] 1,2-Dichloroethane (EDC)	4.53	62	605028	169.882	ppb	94	
27] 1,1,1-Trichloroethane	4.19	97	981676	179.141	ppb	94	
28) 1,1-Dichloropropene	4.33	75	652381	174.020	ppb	98	
29) Carbon tetrachloride	4.33	117	1097884	188.584	ppb	99	
31] Benzene	4.50	78	1736323	187.627	ppb	95	
32] Trichloroethene	5.05	95	604810	169.826	ppb	86	
33) 1,2-Dichloropropane	5.24	63	365403	189.233	ppb	99	
34) Bromodichloromethane	5.48	83	675265	182.228	ppb	98	
36) Dibromomethane	5.35	93	368026	181.966	ppb	88	

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

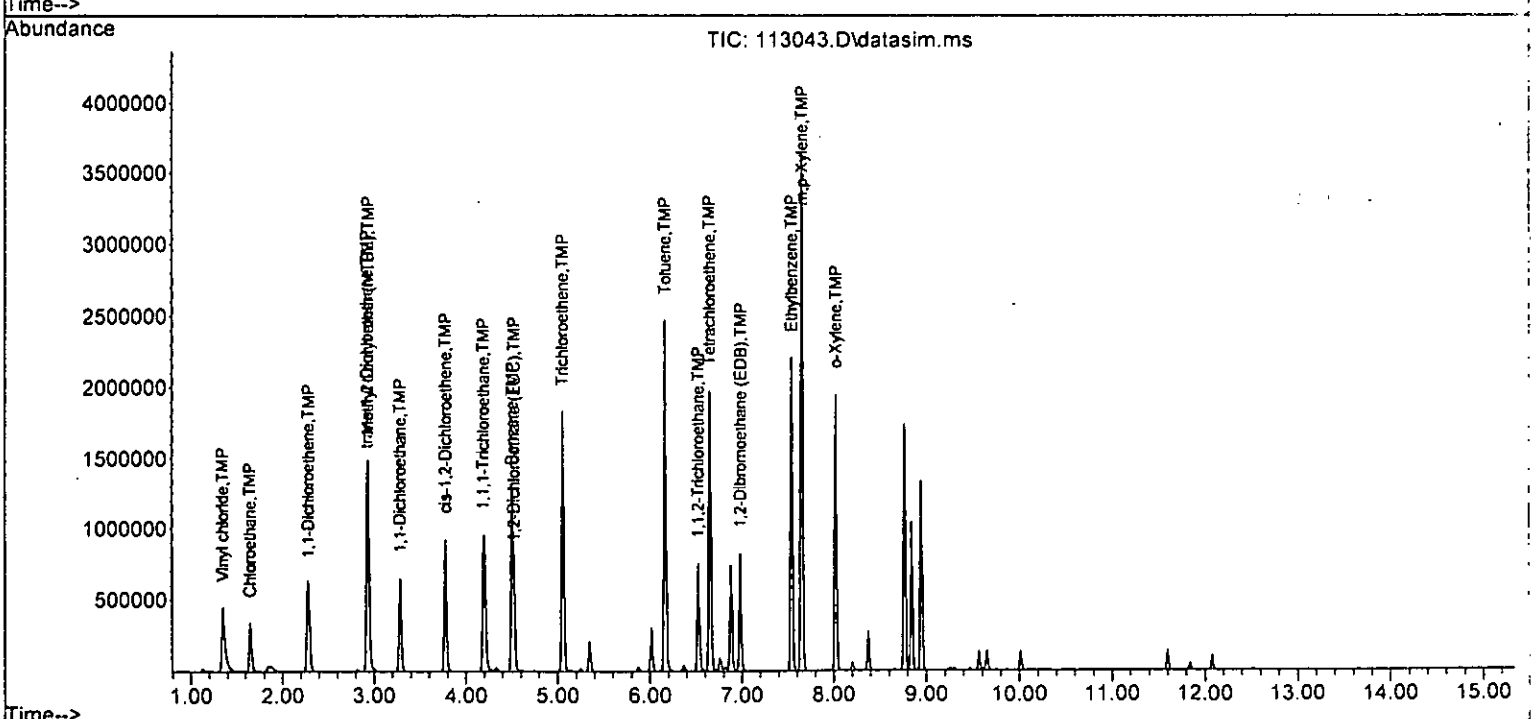
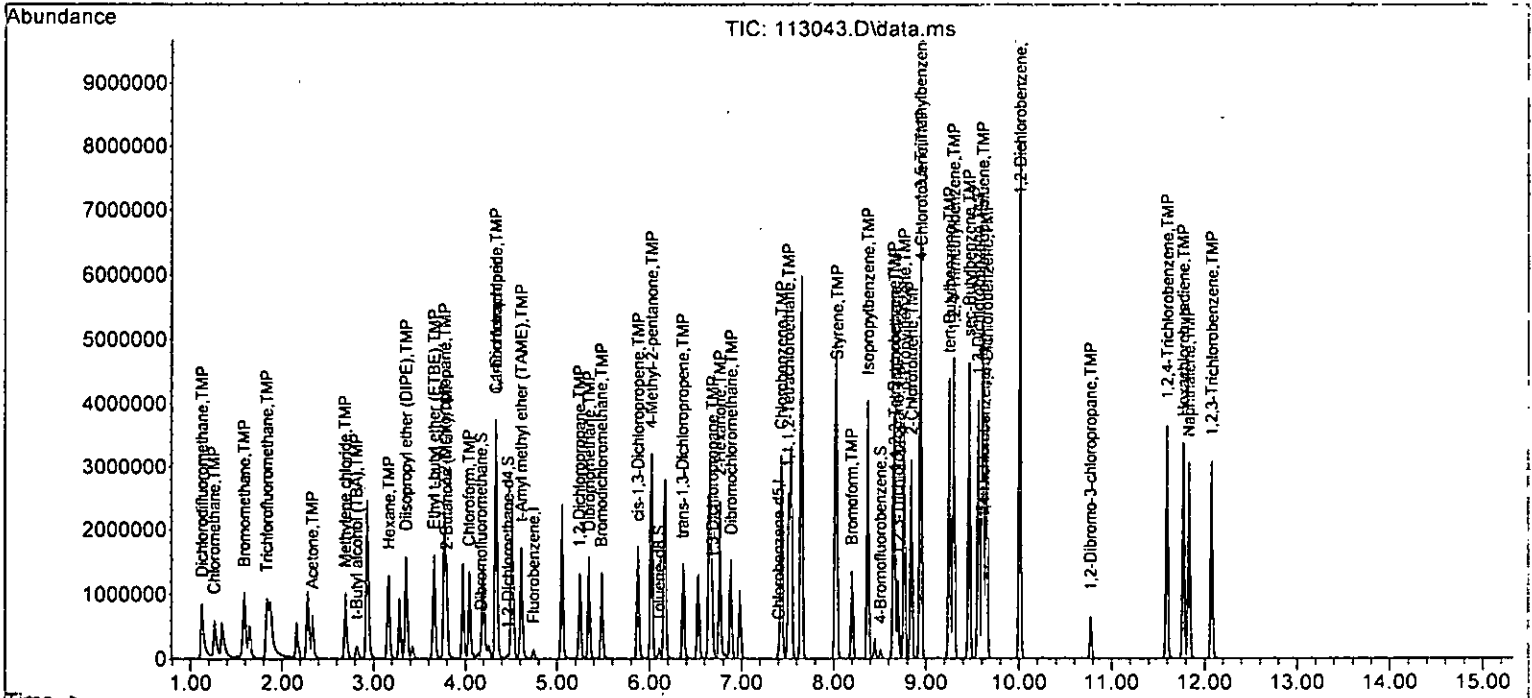
Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.02	85	430745	926.619	ppb	85
38) cis-1,3-Dichloropropene	5.88	75	726492	188.824	ppb	96
40] Toluene	6.16	92	1296292	186.319	ppb	98
41) trans-1,3-Dichloropropene	6.36	75	662797	186.091	ppb	95
42] 1,1,2-Trichloroethane	6.53	83	359215	183.562	ppb	96
43) 2-Hexanone	6.76	43	1268078	894.969	ppb	99
44) 1,3-Dichloropropane	6.68	76	597144	176.483	ppb	98
45] Tetrachloroethene	6.65	164	784289	196.750	ppb	99
46) Dibromochloromethane	6.88	129	842817	197.992	ppb	100
47] 1,2-Dibromoethane (EDB)	6.98	107	590658	188.407	ppb	89
48) Chlorobenzene	7.43	112	1774870	187.989	ppb	100
49] Ethylbenzene	7.54	91	2225991	179.962	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	793736	192.113	ppb	98
51] m,p-Xylene	7.65	106	1975148	363.499	ppb	98
52] o-Xylene	8.02	106	1000800	183.452	ppb	99
53) Styrene	8.03	104	1567416	184.517	ppb	99
54) Isopropylbenzene	8.37	105	2533805	187.037	ppb	98
55) Bromoform	8.20	173	635124	209.783	ppb	97
58) n-Propylbenzene	8.77	91	2500105	178.180	ppb	99
59) Bromobenzene	8.65	156	968212	189.676	ppb	91
60) 1,3,5-Trimethylbenzene	8.94	105	2129640	186.632	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.66	83	538477	202.626	ppb	98
62) 1,2,3-Trichloropropane	8.70	75	382851	182.562	ppb	98
63) 2-Chlorotoluene	8.84	91	1449239	181.804	ppb	96
64) 4-Chlorotoluene	8.95	91	1730265	179.365	ppb	99
65) tert-Butylbenzene	9.25	119	2268586	187.546	ppb	98
66) 1,2,4-Trimethylbenzene	9.30	105	2301350	187.456	ppb	98
67) sec-Butylbenzene	9.46	105	2903505	194.980	ppb	99
68) p-Isopropyltoluene	9.61	119	2939476	197.073	ppb	99
69) 1,3-Dichlorobenzene	9.56	146	1730178	188.578	ppb	99
70) 1,4-Dichlorobenzene	9.65	146	1709748	188.964	ppb	99
71) 1,2-Dichlorobenzene	10.01	146	1662203	188.064	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	107825	191.540	ppb	91
73) 1,2,4-Trichlorobenzene	11.60	180	1269334	204.783	ppb	99
74) Hexachlorobutadiene	11.77	225	702813	192.410	ppb	99
75) Naphthalene	11.83	128	2428759	201.583	ppb	99
76) 1,2,3-Trichlorobenzene	12.08	180	1007461	205.372	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113043.D  
 Acq On : 01 Dec 2022 03:45 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:15:05 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	124698	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	103846	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	61463	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	39205	9.869	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.70%
30) 1,2-Dichloroethane-d4	4.45	102	6939	9.320	ppb	0.00
Spiked Amount	10.000	Range	84 - 120	Recovery	=	93.20%
35) Toluene-d8	6.11	98	106988	9.545	ppb	0.00
Spiked Amount	10.000	Range	73 - 128	Recovery	=	95.50%
57) 4-Bromofluorobenzene	8.51	95	37298	10.014	ppb	0.00
Spiked Amount	10.000	Range	57 - 146	Recovery	=	100.10%
Target Compounds						
						Qvalue
2) Ethanol	2.33	45	213	No Calib		.
4) Dichlorodifluoromethane	1.12	85	59465	8.188	ppb	96
5) Chloromethane	1.26	50	43638	9.068	ppb	98
6] Vinyl chloride	1.34	62	47873	10.288	ppb	98
7) Bromomethane	1.58	94	50415	10.498	ppb	90
8] Chloroethane	1.65	64	24653	9.895	ppb	98
9) Trichlorofluoromethane	1.83	101	119782	9.460	ppb	98
10) 2-Propanol	2.33	45	213	No Calib	#	.
11) Acetone	2.33	58	13390	43.221	ppb	93
12] 1,1-Dichloroethene	2.27	96	32364	10.469	ppb	87
13) Hexane	3.16	57	28078	9.717	ppb	90
14) Methylene chloride	2.68	84	30442	9.551	ppb	93
15) t-Butyl alcohol (TBA)	2.82	59	13874	49.897	ppb	98
16] Methyl t-butyl ether (...)	2.93	73	77423	10.422	ppb	96
17] trans-1,2-Dichloroethene	2.92	96	35199	10.288	ppb	89
18) Diisopropyl ether (DIPE)	3.35	45	70925	10.662	ppb	95
19] 1,1-Dichloroethane	3.27	63	45012	10.597	ppb	96
20) Ethyl t-butyl ether (E...)	3.66	87	36969	10.324	ppb	96
21) 2,2-Dichloropropane	3.76	77	28424	9.270	ppb	94
22] cis-1,2-Dichloroethene	3.77	96	37366	10.115	ppb	96
23) Chloroform	4.04	83	53852	9.782	ppb	96
24) 2-Butanone (MEK)	3.79	43	62726	44.840	ppb	96
25) t-Amyl methyl ether (T...)	4.61	73	69737	10.156	ppb	99
26] 1,2-Dichloroethane (EDC)	4.53	62	38759	10.204	ppb	93
27] 1,1,1-Trichloroethane	4.19	97	61168	10.484	ppb	98
28) 1,1-Dichloropropene	4.33	75	36980	9.265	ppb	95
29) Carbon tetrachloride	4.33	117	63400	10.228	ppb	97
31] Benzene	4.50	78	104054	10.548	ppb	98
32] Trichloroethene	5.05	95	41620	10.976	ppb	94
33) 1,2-Dichloropropane	5.24	63	22401	10.724	ppb	100
34) Bromodichloromethane	5.48	83	39339	9.971	ppb	98
36) Dibromomethane	5.35	93	22161	10.291	ppb	# 83

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

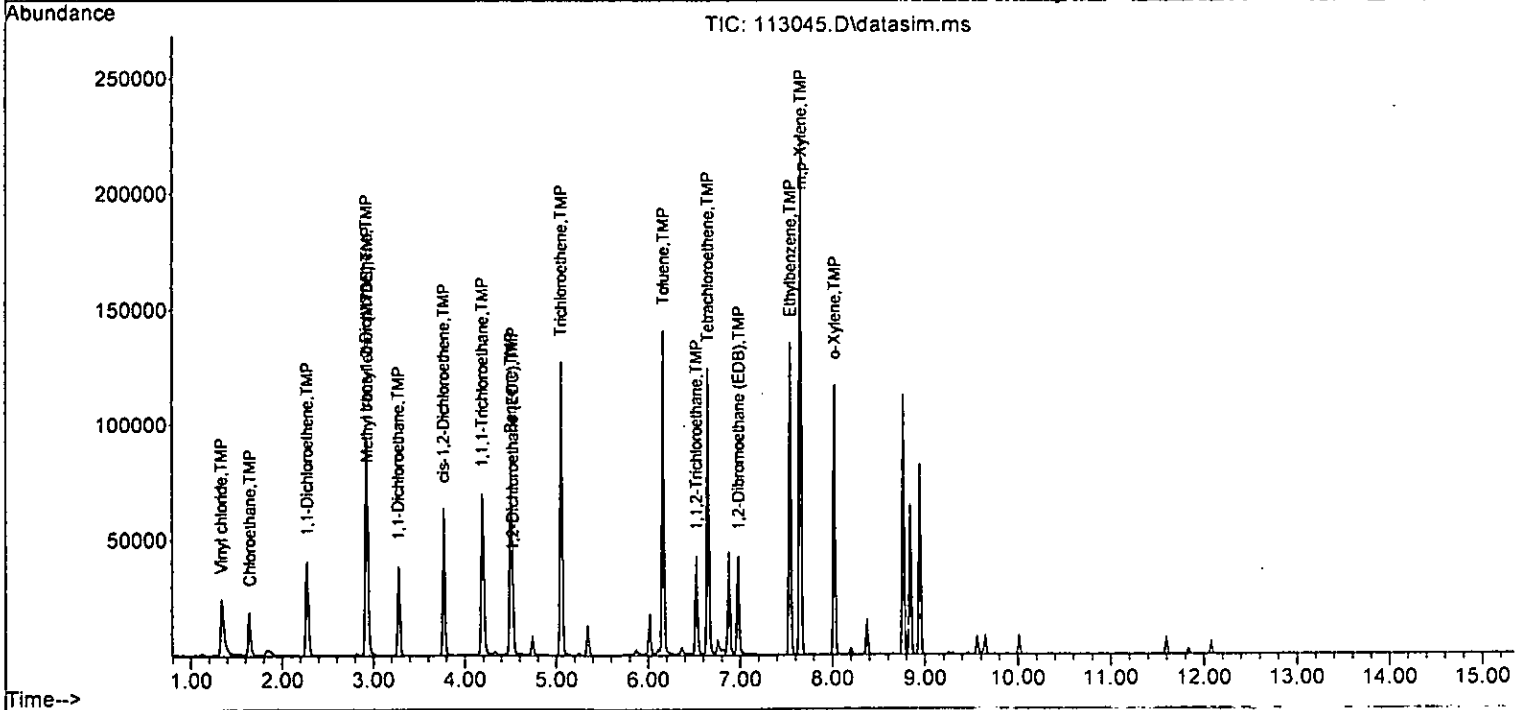
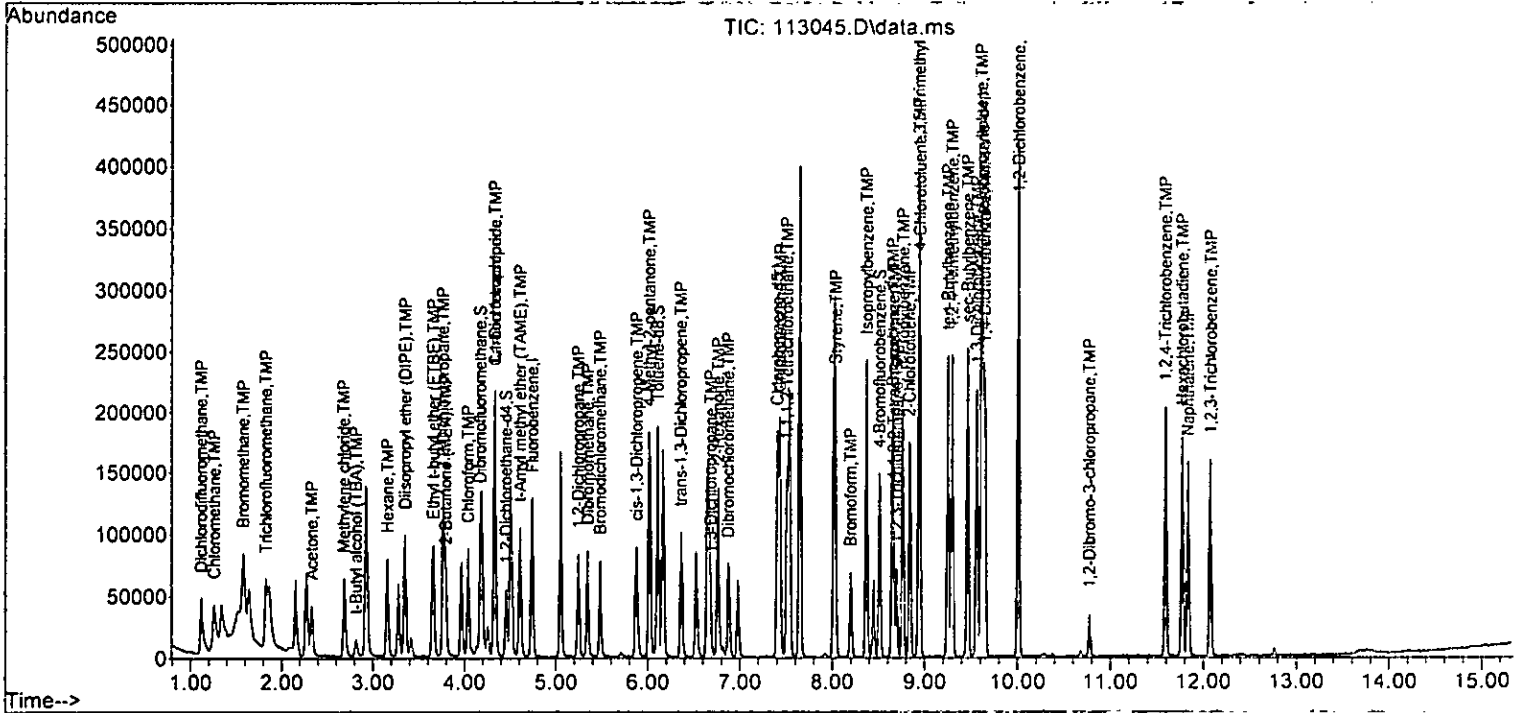
Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	25246	51.009	ppb	94
38) cis-1,3-Dichloropropene	5.88	75	39247	9.581	ppb	98
40] Toluene	6.16	92	74463	10.312	ppb	100
41) trans-1,3-Dichloropropene	6.36	75	36839	9.972	ppb	99
42] 1,1,2-Trichloroethane	6.53	83	20856	10.267	ppb	99
43) 2-Hexanone	6.76	43	75374	51.285	ppb	98
44) 1,3-Dichloropropane	6.68	76	36229	10.323	ppb	98
45] Tetrachloroethene	6.65	164	45273	10.027	ppb	99
46) Dibromochloromethane	6.87	129	45473	10.299	ppb	99
47] 1,2-Dibromoethane (EDB)	6.98	107	34852	10.705	ppb	88
48) Chlorobenzene	7.43	112	101280	10.342	ppb	99
49] Ethylbenzene	7.54	91	136887	10.622	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.51	131	43776	10.215	ppb	95
51] m,p-Xylene	7.65	106	119589	21.103	ppb	100
52] o-Xylene	8.02	106	58931	10.393	ppb	98
53) Styrene	8.03	104	90973	10.325	ppb	98
54) Isopropylbenzene	8.37	105	147220	10.477	ppb	100
55) Bromoform	8.20	173	31070	9.894	ppb	98
58) n-Propylbenzene	8.77	91	146999	10.595	ppb	100
59) Bromobenzene	8.65	156	53090	10.518	ppb	91
60) 1,3,5-Trimethylbenzene	8.94	105	117493	10.413	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.66	83	25685	9.761	ppb	97
62) 1,2,3-Trichloropropane	8.70	75	21906	10.564	ppb	95
63) 2-Chlorotoluene	8.84	91	84090	10.668	ppb	98
64) 4-Chlorotoluene	8.95	91	100977	10.586	ppb	99
65) tert-Butylbenzene	9.25	119	122831	10.269	ppb	97
66) 1,2,4-Trimethylbenzene	9.30	105	123379	10.163	ppb	99
67) sec-Butylbenzene	9.46	105	155368	10.551	ppb	99
68) p-Isopropyltoluene	9.61	119	152119	10.314	ppb	98
69) 1,3-Dichlorobenzene	9.56	146	94080	10.370	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	97689	10.919	ppb	98
71) 1,2-Dichlorobenzene	10.01	146	91556	10.476	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.77	75	5725	10.285	ppb	97
73) 1,2,4-Trichlorobenzene	11.59	180	65202	10.638	ppb	98
74) Hexachlorobutadiene	11.77	225	36810	10.191	ppb	99
75) Naphthalene	11.83	128	123128	10.335	ppb	98
76) 1,2,3-Trichlorobenzene	12.08	180	50934	10.500	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	108	0.01
2 TMP	Ethanol	-1.000	0.000	0.0	51	0.00
3 S	Dibromofluoromethane	10.000	9.869	1.3	102	0.00
4 TMP	Dichlorodifluoromethane	10.000	8.188	18.1	86	0.00
5 TMP	Chloromethane	10.000	9.068	9.3	94	0.01
6 TMP	Vinyl chloride	10.000	10.288	-2.9	96	0.00
7 TMP	Bromomethane	10.000	10.498	-5.0	101	0.00
8 TMP	Chloroethane	10.000	9.895	1.1	98	0.00
9 TMP	Trichlorofluoromethane	10.000	9.460	5.4	97	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	50.000	43.221	13.6	99	0.01
12 TMP	1,1-Dichloroethene	10.000	10.469	-4.7	103	0.01
13 TMP	Hexane	10.000	9.717	2.8	98	0.00
14 TMP	Methylene chloride	10.000	9.551	4.5	103	0.00
15 TMP	t-Butyl alcohol (TBA)	50.000	49.897	0.2	106	0.01
16 TMP	Methyl t-butyl ether (MTBE)	10.000	10.422	-4.2	103	0.01
17 TMP	trans-1,2-Dichloroethene	10.000	10.288	-2.9	103	0.01
18 TMP	Diisopropyl ether (DIPE)	10.000	10.662	-6.6	101	0.00
19 TMP	1,1-Dichloroethane	10.000	10.597	-6.0	101	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	10.000	10.324	-3.2	106	0.00
21 TMP	2,2-Dichloropropane	10.000	9.270	7.3	92	0.00
22 TMP	cis-1,2-Dichloroethene	10.000	10.115	-1.2	99	0.00
23 TMP	Chloroform	10.000	9.782	2.2	101	0.00
24 TMP	2-Butanone (MEK)	50.000	44.840	10.3	98	0.01
25 TMP	t-Amyl methyl ether (TAME)	10.000	10.156	-1.6	102	0.00
26 TMP	1,2-Dichloroethane (EDC)	10.000	10.204	-2.0	100	0.01
27 TMP	1,1,1-Trichloroethane	10.000	10.484	-4.8	104	0.00
28 TMP	1,1-Dichloropropene	10.000	9.265	7.3	97	0.00
29 TMP	Carbon tetrachloride	10.000	10.228	-2.3	109	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.320	6.8	98	0.00
31 TMP	Benzene	10.000	10.548	-5.5	101	0.00
32 TMP	Trichloroethene	10.000	10.976	-9.8	106	0.00
33 TMP	1,2-Dichloropropane	10.000	10.724	-7.2	103	0.00
34 TMP	Bromodichloromethane	10.000	9.971	0.3	103	0.00
35 S	Toluene-d8	10.000	9.545	4.6	98	0.00
36 TMP	Dibromomethane	10.000	10.291	-2.9	104	0.01
37 TMP	4-Methyl-2-pentanone	50.000	51.009	-2.0	106	0.00
38 TMP	cis-1,3-Dichloropropene	10.000	9.581	4.2	101	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
40 TMP	Toluene	10.000	10.312	-3.1	101	0.00
41 TMP	trans-1,3-Dichloropropene	10.000	9.972	0.3	102	0.00
42 TMP	1,1,2-Trichloroethane	10.000	10.267	-2.7	100	0.00
43 TMP	2-Hexanone	50.000	51.285	-2.6	103	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.323	-3.2	101	0.01
45 TMP Tetrachloroethene	10.000	10.027	-0.3	101	0.00
46 TMP Dibromochloromethane	10.000	10.299	-3.0	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.705	-7.1	101	0.01
48 TMP Chlorobenzene	10.000	10.342	-3.4	103	0.00
49 TMP Ethylbenzene	10.000	10.622	-6.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.215	-2.1	103	0.00
51 TMP m,p-Xylene	20.000	21.103	-5.5	100	0.00
52 TMP o-Xylene	10.000	10.393	-3.9	101	0.00
53 TMP Styrene	10.000	10.325	-3.2	103	0.00
54 TMP Isopropylbenzene	10.000	10.477	-4.8	104	0.00
55 TMP Bromoform	10.000	9.894	1.1	100	0.00
-----					
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	94	0.00
57 S 4-Bromofluorobenzene	10.000	10.014	-0.1	94	0.00
58 TMP n-Propylbenzene	10.000	10.595	-6.0	101	0.00
59 TMP Bromobenzene	10.000	10.518	-5.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.413	-4.1	101	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.761	2.4	94	0.00
62 TMP 1,2,3-Trichloropropane	10.000	10.564	-5.6	99	0.00
63 TMP 2-Chlorotoluene	10.000	10.668	-6.7	101	0.00
64 TMP 4-Chlorotoluene	10.000	10.586	-5.9	100	0.00
65 TMP tert-Butylbenzene	10.000	10.269	-2.7	99	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.163	-1.6	100	0.00
67 TMP sec-Butylbenzene	10.000	10.551	-5.5	101	0.00
68 TMP p-Isopropyltoluene	10.000	10.314	-3.1	99	0.00
69 TMP 1,3-Dichlorobenzene	10.000	10.370	-3.7	99	0.00
70 TMP 1,4-Dichlorobenzene	10.000	10.919	-9.2	104	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.476	-4.8	102	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	10.285	-2.9	104	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	10.638	-6.4	102	0.00
74 TMP Hexachlorobutadiene	10.000	10.191	-1.9	101	0.00
75 TMP Naphthalene	10.000	10.335	-3.4	101	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.500	-5.0	104	0.00

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	108	0.01
2 TMP Ethanol	0.000	0.000#	0.0	51	0.00
3 S Dibromofluoromethane	0.319	0.314	1.6	102	0.00
4 TMP Dichlorodifluoromethane	0.582	0.477	18.0	86	0.00
5 TMP Chloromethane	0.386	0.350	9.3	94	0.01
6 TMP Vinyl chloride	0.373	0.384	-2.9	96	0.00
7 TMP Bromomethane	0.385	0.404	-4.9	101	0.00
8 TMP Chloroethane	0.200	0.198	1.0	98	0.00
9 TMP Trichlorofluoromethane	1.015	0.961	5.3	97	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.021	4.5	99	0.01
12 TMP 1,1-Dichloroethene	0.248	0.260	-4.8	103	0.01
13 TMP Hexane	0.236	0.225	4.7	98	0.00
14 TMP Methylene chloride	0.247	0.244	1.2	103	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.022#	0.0	106	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.621	-4.2	103	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.282	-2.9	103	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.569	-6.8	101	0.00
19 TMP 1,1-Dichloroethane	0.341	0.361	-5.9	101	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.296	-3.1	106	0.00
21 TMP 2,2-Dichloropropane	0.297	0.228	23.2#	92	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.300	-1.4	99	0.00
23 TMP Chloroform	0.441	0.432	2.0	101	0.00
24 TMP 2-Butanone (MEK)	0.102	0.101	1.0	98	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.559	-1.5	102	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.311	6.9	100	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.491	-4.9	104	0.00
28 TMP 1,1-Dichloropropene	0.320	0.297	7.2	97	0.00
29 TMP Carbon tetrachloride	0.497	0.508	-2.2	109	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.056	6.7	98	0.00
31 TMP Benzene	0.849	0.834	1.8	101	0.00
32 TMP Trichloroethene	0.304	0.334	-9.9	106	0.00
33 TMP 1,2-Dichloropropane	0.189	0.180	4.8	103	0.00
34 TMP Bromodichloromethane	0.316	0.315	0.3	103	0.00
35 S Toluene-d8	0.899	0.858	4.6	98	0.00
36 TMP Dibromomethane	0.173	0.178	-2.9	104	0.01
37 TMP 4-Methyl-2-pentanone	0.040	0.040	0.0	106	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.315	4.3	101	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
40 TMP Toluene	0.719	0.717	0.3	101	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.355	0.3	102	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.201	1.5	100	0.00
43 TMP 2-Hexanone	0.142	0.145	-2.1	103	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\11-30-22\  
 Data File : 113045.D  
 Acq On : 01 Dec 2022 04:31 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-7C  
 Misc : soil/water  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 01 12:35:12 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:14:23 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.349	-3.3	101	0.01
45 TMP Tetrachloroethene	0.443	0.436	1.6	101	0.00
46 TMP Dibromochloromethane	0.425	0.438	-3.1	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.336	-0.3	101	0.01
48 TMP Chlorobenzene	0.943	0.975	-3.4	103	0.00
49 TMP Ethylbenzene	1.560	1.318	15.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.422	-2.2	103	0.00
51 TMP m,p-Xylene	0.718	0.576	19.8	100	0.00
52 TMP o-Xylene	0.611	0.567	7.2	101	0.00
53 TMP Styrene	0.848	0.876	-3.3	103	0.00
54 TMP Isopropylbenzene	1.353	1.418	-4.8	104	0.00
55 TMP Bromoform	0.302	0.299	1.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
57 S 4-Bromofluorobenzene	0.606	0.607	-0.2	94	0.00
58 TMP n-Propylbenzene	2.257	2.392	-6.0	101	0.00
59 TMP Bromobenzene	0.821	0.864	-5.2	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	1.912	-4.1	101	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.418#	3.5	94	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.356#	-5.6	99	0.00
63 TMP 2-Chlorotoluene	1.282	1.368	-6.7	101	0.00
64 TMP 4-Chlorotoluene	1.552	1.643	-5.9	100	0.00
65 TMP tert-Butylbenzene	1.946	1.998	-2.7	99	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.007	-1.6	100	0.00
67 TMP sec-Butylbenzene	2.396	2.528	-5.5	101	0.00
68 TMP p-Isopropyltoluene	2.400	2.475	-3.1	99	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.531	-3.7	99	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.589	-9.1	104	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.490	-4.8	102	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.093	-2.2	104	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	1.061	-6.4	102	0.00
74 TMP Hexachlorobutadiene	0.588	0.599	-1.9	101	0.00
75 TMP Naphthalene	1.938	2.003	-3.4	101	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.829	-5.1	104	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Method Path : Y:\Methods\Inst11\  
 Method File : VB120222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022  
 Response Via : Initial Calibration

Calibration Files  
 0.02=120213.D 0.04=120214.D 0.1=120215.D 0.2=120216.D 0.5=120217.D 1=120218.D 2=120219.D 5=120220.D 10=120221.D 20=120222.D  
 50=120223.D 100=120224.D 150=120225.D 200=120226.D

Compound 0.02 0.04 0.1 0.2 0.5 1 2 5 10 20 50 100 150 200 Avg %RSD

ISTD	0.02	0.04	0.1	0.2	0.5	1	2	5	10	20	50	100	150	200	Avg	%RSD	
1) I Fluorobenzene																0.000# -1.00	
2) TMP Ethanol																2.28	
3) 5 Dibromofluorom...	0.256	0.253	0.269	0.272	0.259	0.265	0.262	0.263	0.261	0.267	0.260	0.273	0.259	0.270	0.264	2.60	
4) TMP Dichlorodifluo...					0.714	0.714	0.700	0.673	0.714	0.702	0.726	0.745	0.714	0.714	0.712	21.29	
5) TMP Chloromethane					1.323	1.330	0.970	0.824	0.828	0.827	0.852	0.871	0.840	0.846	0.951	43.04	
6) TMP Vinyl chloride	2.094		0.822	0.788	0.742	0.776	0.767	0.705	0.772	0.742	0.759	0.770	0.738	0.737	0.862	20.54	
7) TMP Bromomethane							0.655	0.437	0.456	0.414	0.402	0.409	0.380	0.375	0.441	5.59	
8) TMP Chloroethane							0.334	0.345	0.365	0.321	0.361	0.332	0.355	0.362	0.320	0.341	4.87
9) TMP Trichlorofluor...					0.951	0.823	0.901	0.942	0.850	0.945	0.860	0.885	0.946	0.905	0.881	0.899	
10) TMP 2-Propanol																0.000	
11) TMP Acetone					0.039	0.037	0.031	0.031	0.029	0.031	0.029	0.029	0.031	0.028	0.029	0.031	
12) TMP 1,1-Dichloroet...	0.473		0.294	0.272	0.250	0.255	0.256	0.236	0.255	0.243	0.252	0.255	0.244	0.244	0.271	22.95	
13) TMP Hexane					0.725	0.523	0.502	0.412	0.432	0.415	0.422	0.429	0.401	0.423	0.469	21.06	
14) TMP Methylene chlo...							0.307	0.276	0.269	0.265	0.262	0.252	0.254	0.269	6.89		
15) TMP t-Butyl alcoho...					0.049	0.050	0.050	0.046	0.046	0.043	0.045	0.045	0.044	0.045	0.046	5.37	
16) TMP Methyl t-butyl...	1.329		0.793	0.818	0.785	0.802	0.785	0.733	0.784	0.753	0.754	0.759	0.731	0.726	0.812	19.45	
17) TMP trans-1,2-Dich...	0.676		0.360	0.300	0.283	0.294	0.282	0.263	0.288	0.272	0.273	0.263	0.263	0.314	35.45		
18) TMP Disopropyl et...			1.270	1.051	1.005	0.937	0.874	0.919	0.886	0.901	0.909	0.867	0.860	0.953	12.67		
19) TMP 1,1-Dichloroet...	0.923		0.541	0.547	0.529	0.531	0.529	0.491	0.520	0.497	0.508	0.512	0.492	0.489	0.547	20.98	
20) TMP Ethyl t-butyl ...			0.340	0.318	0.307	0.296	0.285	0.317	0.300	0.304	0.317	0.298	0.298	0.307	4.90		
21) TMP 2,2-Dichloropr...			0.527	0.381	0.361	0.378	0.313	0.303	0.326	0.326	0.302	0.302	0.302	0.296	0.347	19.44	
22) TMP cis-1,2-Dichlo...	0.631		0.343	0.326	0.310	0.310	0.309	0.286	0.302	0.291	0.295	0.297	0.290	0.289	0.329	27.95	
23) TMP Chloroform			0.509	0.484	0.495	0.529	0.449	0.465	0.458	0.466	0.469	0.459	0.459	0.477	5.24		
24) TMP 2-Butanone (MEK)			0.221	0.185	0.185	0.176	0.159	0.180	0.167	0.157	0.157	0.167	0.160	0.162	0.173	11.08	
25) TMP t-Amyl methyl ...			0.848	0.734	0.802	0.771	0.710	0.723	0.712	0.714	0.716	0.695	0.702	0.739	6.53		
26) TMP 1,2-Dichloroet...	1.205		0.515	0.468	0.425	0.424	0.422	0.444	0.468	0.458	0.452	0.402	0.390	0.388	0.479	46.22	
27) TMP 1,1,1-Trichlor...	0.822		0.480	0.477	0.472	0.480	0.476	0.444	0.468	0.452	0.462	0.473	0.456	0.465	0.494	20.05	
28) TMP 1,1-Dichloropr...			0.393	0.388	0.383	0.377	0.342	0.366	0.358	0.368	0.368	0.354	0.356	0.368	4.24		
29) TMP Carbon tetrach...			0.431	0.368	0.411	0.401	0.383	0.395	0.377	0.395	0.401	0.396	0.397	0.396	4.22		
30) S 1,2-Dichloroet...	0.060	0.061	0.059	0.062	0.056	0.063	0.055	0.059	0.060	0.060	0.063	0.057	0.060	0.061	0.060	4.28	
31) TMP Benzene	1.993		1.100	1.101	1.055	1.061	1.059	0.984	1.029	0.988	1.000	1.012	0.983	0.977	1.103	24.55	
32) TMP Trichloroethene	0.799		0.389	0.356	0.332	0.337	0.330	0.309	0.329	0.318	0.311	0.328	0.322	0.325	0.368	35.63	
33) TMP 1,2-Dichloropr...			0.403	0.356	0.339	0.332	0.285	0.295	0.282	0.294	0.299	0.290	0.289	0.315	12.14		
34) TMP Bromodichlorom...			0.456	0.352	0.385	0.406	0.357	0.358	0.352	0.363	0.374	0.360	0.365	0.375	8.36		
35) S Toluene-d8	0.978	0.941	0.967	0.992	0.938	0.967	0.945	0.950	1.006	0.987	0.991	1.013	1.012	0.971	0.975	2.64	
36) TMP Dibromomethane			0.198	0.223	0.173	0.192	0.166	0.176	0.168	0.176	0.178	0.173	0.173	0.181	9.23		
37) TMP 4-Methyl-2-pen...			0.065	0.053	0.060	0.053	0.047	0.055	0.053	0.053	0.053	0.054	0.051	0.052	0.054	8.72	

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38) TMP cis-1,3-Dichlo... 0.480 0.466 0.440 0.460 0.422 0.439 0.413 0.434 0.447 0.437 0.436 0.443 4.36

		-----ISTD-----														
39) I	Chlorobenzene-d5															
40) TMP	Toluene	2.048	1.057	0.979	0.920	0.924	0.915	0.852	0.871	0.846	0.857	0.869	0.853	0.827	0.986	33.01
41) TMP	trans-1,3-Dich...															3.78
42) TMP	1,1,2-Trichlor...		0.352	0.303	0.288	0.291	0.288	0.268	0.274	0.266	0.273	0.277	0.272	0.265	0.285	8.51
43) TMP	2-Hexanone															5.79
44) TMP	1,3-Dichloropr...															3.99
45) TMP	Tetrachloroethene	1.223	0.481	0.415	0.361	0.357	0.348	0.321	0.330	0.320	0.326	0.330	0.324	0.319	0.420	58.59
46) TMP	Dibromochlorom...			0.350	0.377	0.368	0.361	0.355	0.364	0.353	0.370	0.384	0.377	0.370	0.366	2.97
47) TMP	1,2-Dibromoeth...	0.868	0.407	0.378	0.346	0.340	0.344	0.318	0.324	0.317	0.326	0.328	0.323	0.313	0.379	39.32
48) TMP	Chlorobenzene															7.61
49) TMP	Ethylbenzene	3.911	2.005	1.887	1.787	1.787	1.768	1.636	1.680	1.622	1.629	1.640	1.605	1.551	1.885	32.99
50) TMP	1,1,1,2-Tetrac...															6.02
51) TMP	m,p-Xylene	1.501	0.757	0.709	0.672	0.669	0.665	0.610	0.621	0.597	0.599	0.605	0.591	0.573	0.705	34.69
52) TMP	o-Xylene	1.380	0.722	0.681	0.653	0.653	0.646	0.596	0.610	0.589	0.590	0.598	0.586	0.568	0.683	31.36
53) TMP	Styrene			1.071	1.058	1.085	1.059	0.961	0.991	0.958	0.977	0.979	0.970	0.937	1.004	5.29
54) TMP	Isopropylbenzene			1.922	1.575	1.708	1.666	1.560	1.577	1.537	1.540	1.558	1.534	1.491	1.606	7.56
55) TMP	Bromoform			0.337	0.265	0.250	0.273	0.248	0.258	0.255	0.260	0.271	0.273	0.268	0.269	8.98

		-----ISTD-----															
56) I	1,4-Dichlorobenzen...																
57) S	4-Bromofluorob...	0.871	0.886	0.867	0.833	0.868	0.872	0.863	0.879	0.855	0.858	0.842	0.885	0.878	0.840	0.864	1.94
58) TMP	n-Propylbenzene				3.728	3.575	3.558	3.619	3.269	3.359	3.205	3.348	3.299	3.193	3.092	3.386	6.02
59) TMP	Bromobenzene				0.777	0.922	0.820	0.834	0.776	0.768	0.738	0.776	0.771	0.767	0.736	0.790	6.69
60) TMP	1,3,5-Trimethy...				3.057	2.616	2.560	2.563	2.403	2.418	2.324	2.383	2.387	2.336	2.251	2.482	8.92
61) TMP	1,1,2,2-Tetrac...				0.580	0.872	0.772	0.797	0.747	0.720	0.714	0.781	0.725	0.692	0.670	0.733	10.32
62) TMP	1,2,3-Trichlor...				0.678	0.638	0.616	0.616	0.572	0.585	0.557	0.592	0.594	0.580	0.558	0.599	6.05
63) TMP	2-Chlorotoluene				2.399	2.383	2.238	2.168	2.016	1.958	1.896	1.944	1.905	1.872	1.817	2.054	10.14
64) TMP	4-Chlorotoluene				2.713	2.583	2.576	2.469	2.254	2.292	2.209	2.245	2.260	2.201	2.103	2.355	8.34
65) TMP	tert-Butylbenzene				2.399	2.265	2.285	2.348	2.103	2.147	2.083	2.158	2.161	2.126	2.057	2.194	5.15
66) TMP	1,2,4-Trimethy...				3.146	2.737	2.685	2.652	2.485	2.473	2.412	2.467	2.477	2.441	2.347	2.575	8.74
67) TMP	sec-Butylbenzene				3.571	3.226	3.217	3.281	3.028	3.112	3.017	3.135	3.127	3.063	2.980	3.160	5.24
68) TMP	p-Isopropyltol...				2.554	2.770	2.870	2.913	2.570	2.703	2.620	2.718	2.757	2.691	2.605	2.706	4.31
69) TMP	1,3-Dichlorobe...				1.840	1.511	1.518	1.544	1.379	1.406	1.359	1.426	1.413	1.361	1.469	9.45	
70) TMP	1,4-Dichlorobe...				1.713	1.697	1.576	1.591	1.425	1.450	1.392	1.434	1.435	1.402	1.358	1.498	8.35
71) TMP	1,2-Dichlorobe...				1.177	1.471	1.457	1.452	1.154	1.374	1.307	1.372	1.366	1.343	1.291	1.361	6.24
72) TMP	1,2-Dibromo-3-...																4.90
73) TMP	1,2,4-Trichlor...				0.962	0.942	1.069	1.050	0.887	0.937	0.924	0.981	1.014	1.010	0.987	0.978	5.64
74) TMP	Hexachlorobuta...				0.438	0.563	0.519	0.526	0.509	0.512	0.515	0.537	0.531	0.517	0.505	0.516	5.93
75) TMP	Naphthalene				3.313	2.414	2.294	2.241	2.277	2.161	2.257	2.244	2.352	2.440	2.392	2.401	12.51
76) TMP	1,2,3-Trichlor...				0.997	0.795	0.932	0.871	0.803	0.856	0.846	0.900	0.915	0.923	0.902	0.885	6.68

(#) = Out of Range

## Compound List Report GCMS11

Method Path : Y:\Methods\Inst11\  
 Method File : VB120222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022  
 Response Via : Initial Calibration

Total Cpnds : 76

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Fluorobenzene	96	4.63	1.000	A	1	A	B
2	T	Ethanol	45	1.86	0.402	A	1	A	B
3	S	Dibromofluoromethane	113	4.08	0.881	A	0	A	B
4	T	Dichlorodifluoromethane	85	1.09	0.235	A	1	A	B
5	T	Chloromethane	50	1.23	0.265	L	1	A	B
6	T	Vinyl chloride	-62	1.30	0.281	L	1	A	B
7	T	Bromomethane	94	1.54	0.333	L	1	A	B
8	T	Chloroethane	-64	1.61	0.347	L	1	A	B
9	T	Trichlorofluoromethane	101	1.77	0.384	A	1	A	B
10	T	2-Propanol	45	2.40	0.519	A	1	A	B
11	T	Acetone	58	2.27	0.490	A	1	A	B
12	T	1,1-Dichloroethene	-96	2.19	0.474	L	2	A	B
13	T	Hexane	57	3.06	0.660	L	2	A	B
14	T	Methylene chloride	84	2.61	0.563	Q	2	A	B
15	T	t-Butyl alcohol (TBA)	59	2.74	0.592	A	1	A	B
16	T	Methyl t-butyl ether (MTBE)	-73	2.84	0.613	L	1	A	B
17	T	trans-1,2-Dichloroethene	-96	2.83	0.611	L	2	A	B
18	T	Diisopropyl ether (DIPE)	45	3.24	0.701	A	3	A	B
19	T	1,1-Dichloroethane	-63	3.18	0.688	L	2	A	B
20	T	Ethyl t-butyl ether (ETBE)	87	3.55	0.767	A	3	A	B
21	T	2,2-Dichloropropane	77	3.67	0.792	L	1	A	B
22	T	cis-1,2-Dichloroethene	-96	3.67	0.793	L	2	A	B
23	T	Chloroform	83	3.94	0.851	A	1	A	B
24	T	2-Butanone (MEK)	43	3.71	0.801	L	2	A	B
25	T	t-Amyl methyl ether (TAME)	73	4.50	0.971	A	2	A	B
26	T	1,2-Dichloroethane (EDC)	-62	4.42	0.955	L	1	A	B
27	T	1,1,1-Trichloroethane	-97	4.08	0.882	L	2	A	B
28	T	1,1-Dichloropropene	75	4.22	0.911	A	2	A	B
29	T	Carbon tetrachloride	117	4.21	0.909	A	1	A	B
30	S	1,2-Dichloroethane-d4	102	4.36	0.941	A	1	A	B
31	T	Benzene	-78	4.39	0.949	Q	1	A	B
32	T	Trichloroethene	-95	4.93	1.065	L	3	A	B
33	T	1,2-Dichloropropane	63	5.13	1.108	A	1	A	B
34	T	Bromodichloromethane	83	5.37	1.161	A	2	A	B
35	S	Toluene-d8	98	5.98	1.293	A	1	A	B
36	T	Dibromomethane	93	5.23	1.131	A	2	A	B
37	T	4-Methyl-2-pentanone	85	5.91	1.276	A	2	A	B
38	T	cis-1,3-Dichloropropene	75	5.75	1.243	A	2	A	B
39	I	Chlorobenzene-d5	117	7.27	1.000	A	1	A	B
40	T	Toluene	-92	6.03	0.829	L	1	A	B
41	T	trans-1,3-Dichloropropene	75	6.25	0.859	A	2	A	B
42	T	1,1,2-Trichloroethane	-83	6.40	0.881	Q	2	A	B
43	T	2-Hexanone	43	6.64	0.914	A	3	A	B
44	T	1,3-Dichloropropane	76	6.55	0.901	A	1	A	B
45	T	Tetrachloroethene	-164	6.51	0.896	Q	3	A	B
46	T	Dibromochloromethane	129	6.75	0.929	A	1	A	B
47	T	1,2-Dibromoethane (EDB)	-107	6.85	0.943	L	2	A	B
48	T	Chlorobenzene	112	7.30	1.004	A	2	A	B
49	T	Ethylbenzene	-91	7.40	1.018	L	1	A	B
50	T	1,1,1,2-Tetrachloroethane	131	7.38	1.015	A	2	A	B
51	T	m,p-Xylene	-106	7.51	1.033	L	1	A	B
52	T	o-Xylene	-106	7.88	1.084	L	1	A	B
53	T	Styrene	104	7.90	1.086	A	1	A	B
54	T	Isopropylbenzene	105	8.23	1.131	A	1	A	B
55	T	Bromoform	173	8.07	1.110	A	2	A	B

56	I	1,4-Dichlorobenzene-d4	152	9.48	1.000	A	2	A	B
57	S	4-Bromofluorobenzene	95	8.38	0.884	A	2	A	B
58	T	n-Propylbenzene	91	8.62	0.909	A	1	A	B
59	T	Bromobenzene	156	8.51	0.898	A	2	A	B
60	T	1,3,5-Trimethylbenzene	105	8.79	0.927	A	1	A	B
61	T	1,1,2,2-Tetrachloroethane	83	8.53	0.900	A	2	A	B
62	T	1,2,3-Trichloropropane	75	8.57	0.904	A	3	A	R
63	T	2-Chlorotoluene	91	8.70	0.917	A	1	A	B
64	T	4-Chlorotoluene	91	8.81	0.929	A	1	A	B
65	T	tert-Butylbenzene	119	9.10	0.960	A	2	A	B
66	T	1,2,4-Trimethylbenzene	105	9.15	0.966	A	1	A	B
67	T	sec-Butylbenzene	105	9.31	0.982	A	1	A	B
68	T	p-Isopropyltoluene	119	9.46	0.998	A	2	A	B
69	T	1,3-Dichlorobenzene	146	9.42	0.993	A	2	A	B
70	T	1,4-Dichlorobenzene	146	9.50	1.002	A	2	A	B
71	T	1,2-Dichlorobenzene	146	9.87	1.041	A	2	A	B
72	T	1,2-Dibromo-3-chloropropane	75	10.64	1.122	A	2	A	B
73	T	1,2,4-Trichlorobenzene	180	11.44	1.207	A	2	A	B
74	T	Hexachlorobutadiene	225	11.61	1.225	A	2	A	B
75	T	Naphthalene	128	11.68	1.232	A	2	A	B
76	T	1,2,3-Trichlorobenzene	180	11.92	1.257	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

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VB120222ms11.M Mon Dec 05 13:50:05 2022

Calibration Status Report GCMS11

Method Path : Y:\Methods\Inst11\  
 Method File : VB120222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Mon Dec 05 13:11:58 2022  
 Response Via : Initial Calibration

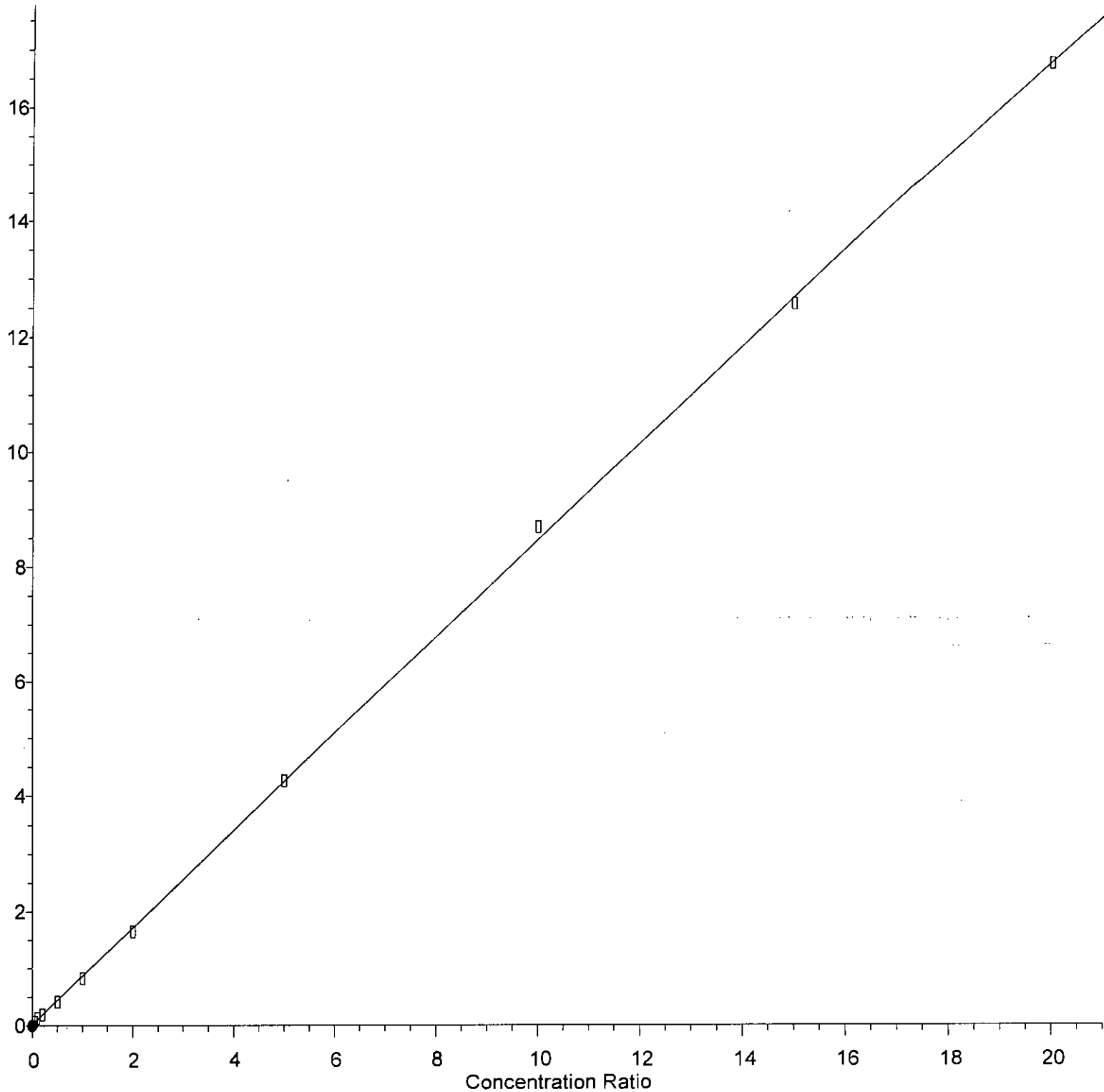
#	ID	Conc	ISTD Conc	Path\File
1	0.02	0	10	Y:\Proc_GCMS11\12-02-22\120213.D
2	0.04	0	10	Y:\Proc_GCMS11\12-02-22\120214.D
3	0.1	0	10	Y:\Proc_GCMS11\12-02-22\120215.D
4	0.2	0	10	Y:\Proc_GCMS11\12-02-22\120216.D
5	0.5	1	10	Y:\Proc_GCMS11\12-02-22\120217.D
6	1	1	10	Y:\Proc_GCMS11\12-02-22\120218.D
7	2	2	10	Y:\Proc_GCMS11\12-02-22\120219.D
8	5	5	10	Y:\Proc_GCMS11\12-02-22\120220.D
9	10	10	10	Y:\Proc_GCMS11\12-02-22\120221.D
10	20	20	10	Y:\Proc_GCMS11\12-02-22\120222.D
11	50	50	10	Y:\Proc_GCMS11\12-02-22\120223.D
12	100	100	10	Y:\Proc_GCMS11\12-02-22\120224.D
13	150	150	10	Y:\Proc_GCMS11\12-02-22\120225.D
14	200	200	10	Y:\Proc_GCMS11\12-02-22\120226.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.02	Dec 05 11:01 2022	Dec 05 10:52 2022	02 Dec 2022 09:20 pm
2	0.04	Dec 05 11:01 2022	Dec 05 10:53 2022	02 Dec 2022 09:43 pm
3	0.1	Dec 05 11:01 2022	Dec 05 10:54 2022	02 Dec 2022 10:06 pm
4	0.2	Dec 05 11:01 2022	Dec 05 10:54 2022	02 Dec 2022 10:29 pm
5	0.5	Dec 05 11:01 2022	Dec 05 10:55 2022	02 Dec 2022 10:53 pm
6	1	Dec 05 11:01 2022	Dec 05 10:56 2022	02 Dec 2022 11:16 pm
7	2	Dec 05 11:01 2022	Dec 05 10:56 2022	02 Dec 2022 11:39 pm
8	5	Dec 05 11:01 2022	Dec 05 10:57 2022	03 Dec 2022 12:02 am
9	10	Dec 05 11:01 2022	Dec 05 10:58 2022	03 Dec 2022 12:25 am
10	20	Dec 05 11:01 2022	Dec 05 10:48 2022	03 Dec 2022 12:49 am
11	50	Dec 05 11:01 2022	Dec 05 10:48 2022	03 Dec 2022 01:12 am
12	100	Dec 05 11:01 2022	Dec 05 11:00 2022	03 Dec 2022 01:35 am
13	150	Dec 05 11:01 2022	Dec 05 10:49 2022	03 Dec 2022 01:58 am
14	200	Dec 05 11:01 2022	Dec 05 11:01 2022	03 Dec 2022 02:21 am

VB120222ms11.M Mon Dec 05 13:50:13 2022

Chloromethane

Response Ratio



Response = 8.461e-001 \* Amt + 2.105e-002

Coef of Det (r^2) = 0.999790 Curve Fit: Linear

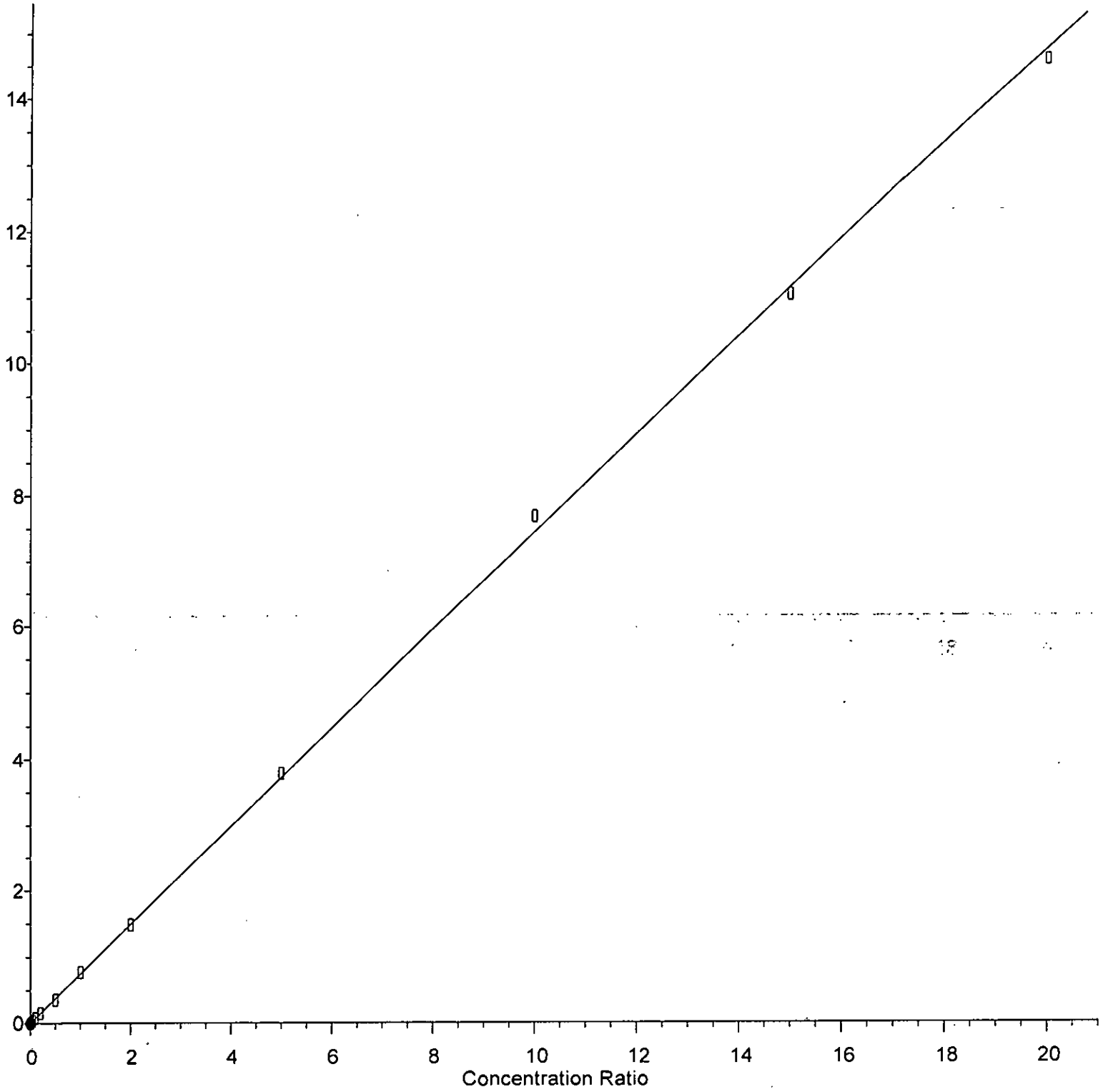
Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022



Vinyl chloride

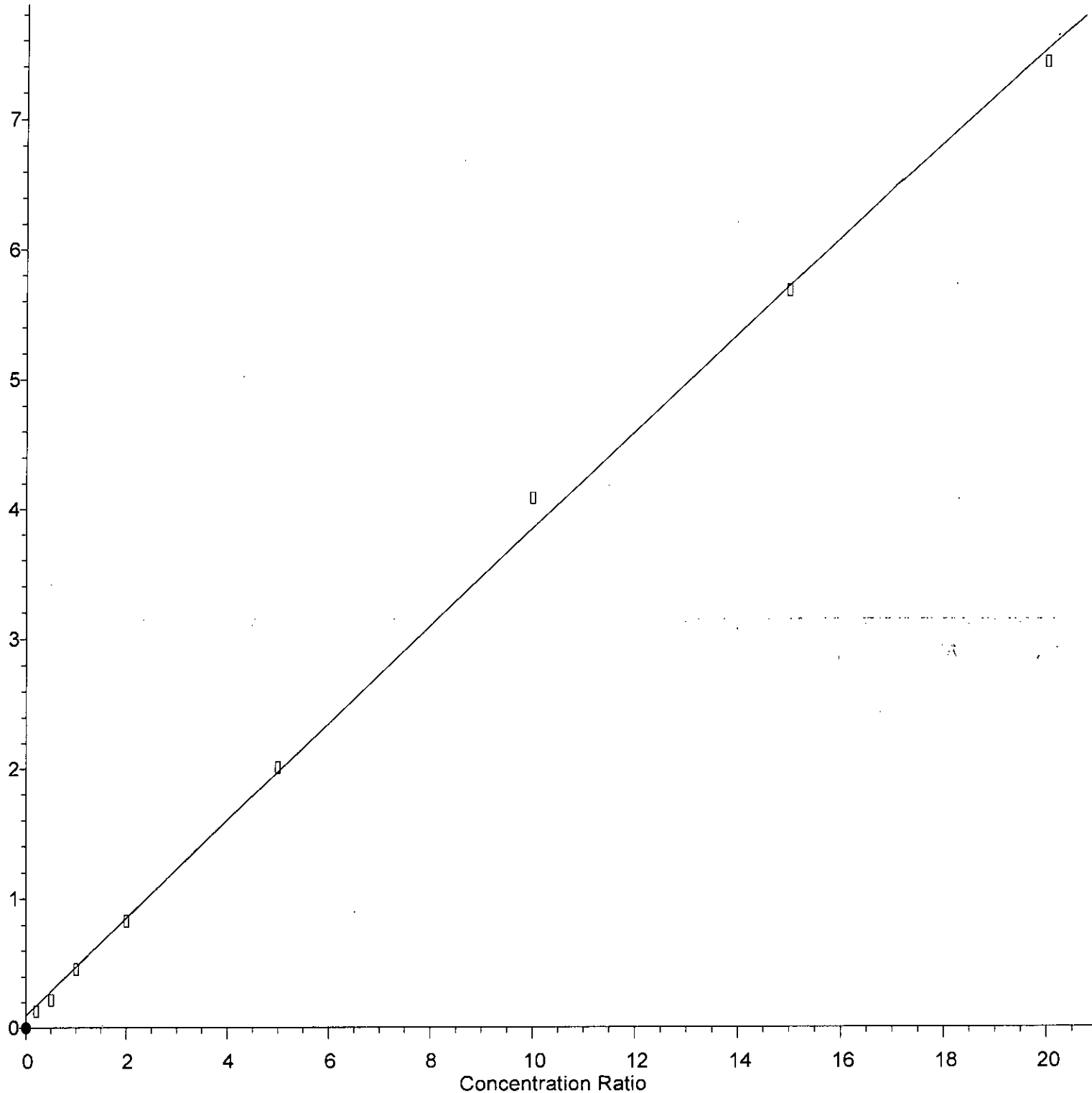
Response Ratio



Response = 7.458e-001 \* Amt + 2.202e-003  
Coef of Det (r^2) = 0.999625 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Bromomethane

Response Ratio



Response = 3.753e-001 \* Amt + 9.755e-002

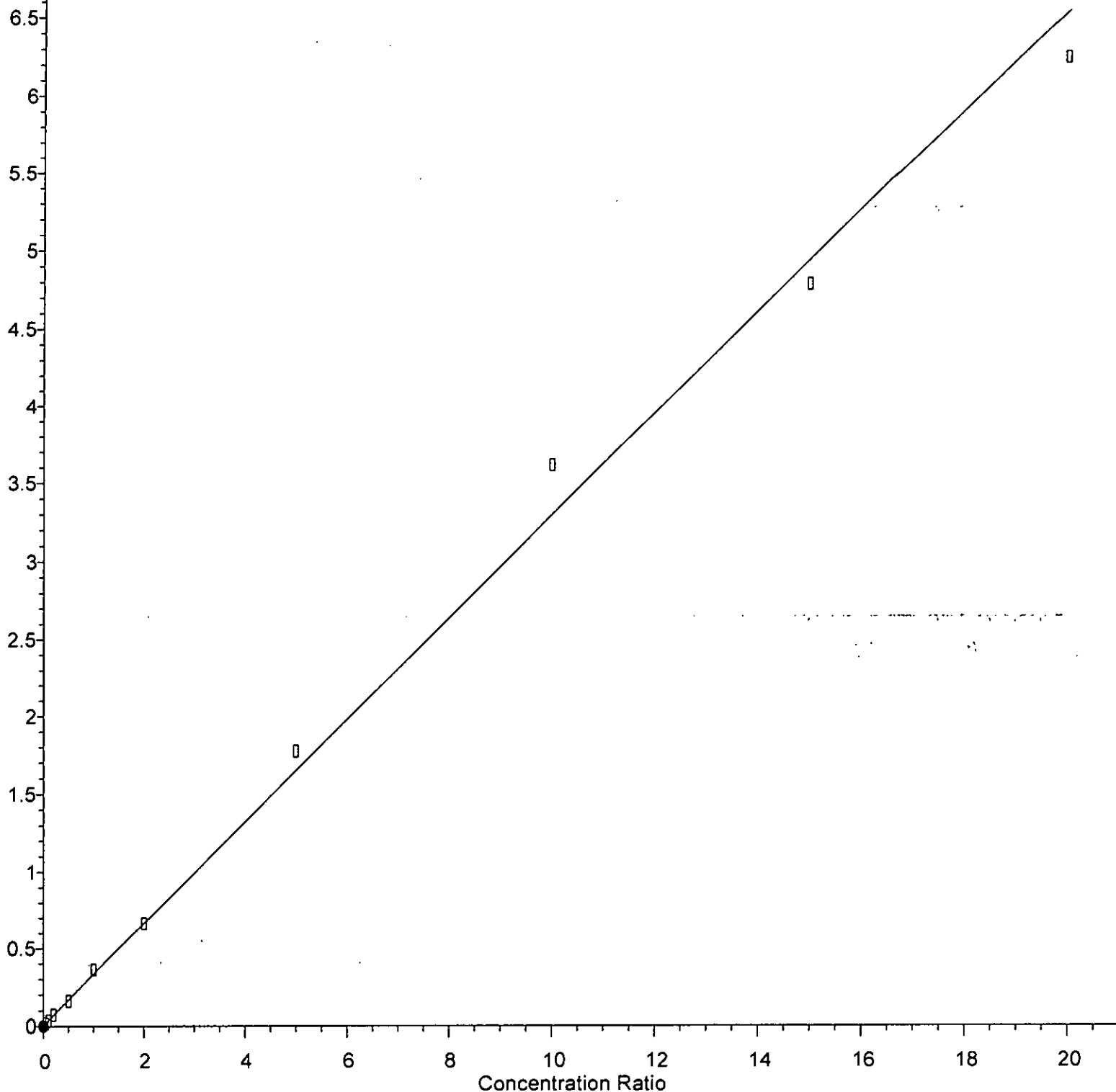
Coef of Det (r<sup>2</sup>) = 0.998614 Curve Fit: Linear

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

# Chloroethane

Response Ratio



$$\text{Response} = 3.301e-001 * \text{Amt} + 2.781e-003$$

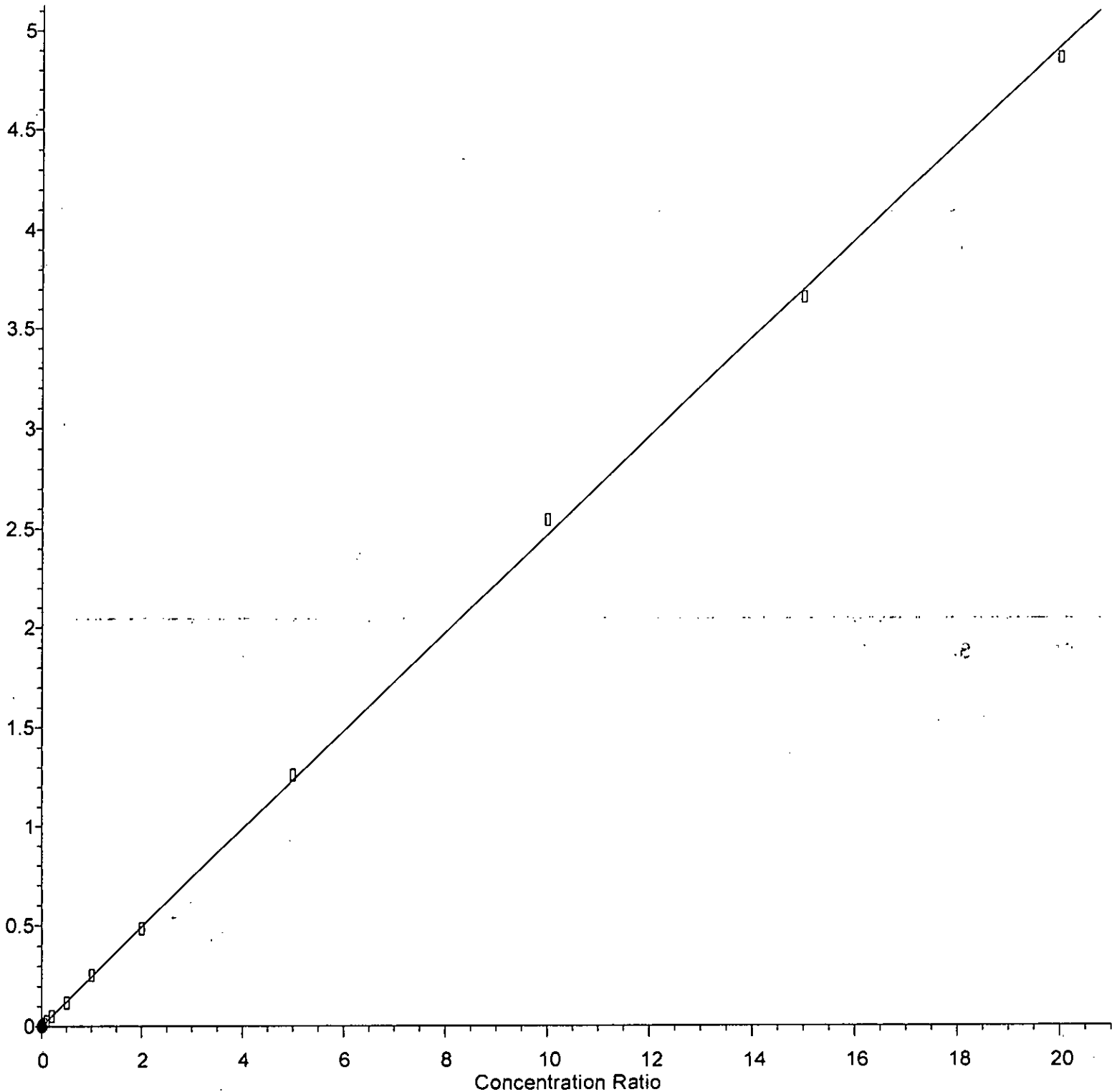
Coef of Det ( $r^2$ ) = 0.996339 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,1-Dichloroethene

Response Ratio



Response = 2.469e-001 \* Amt + 4.623e-004

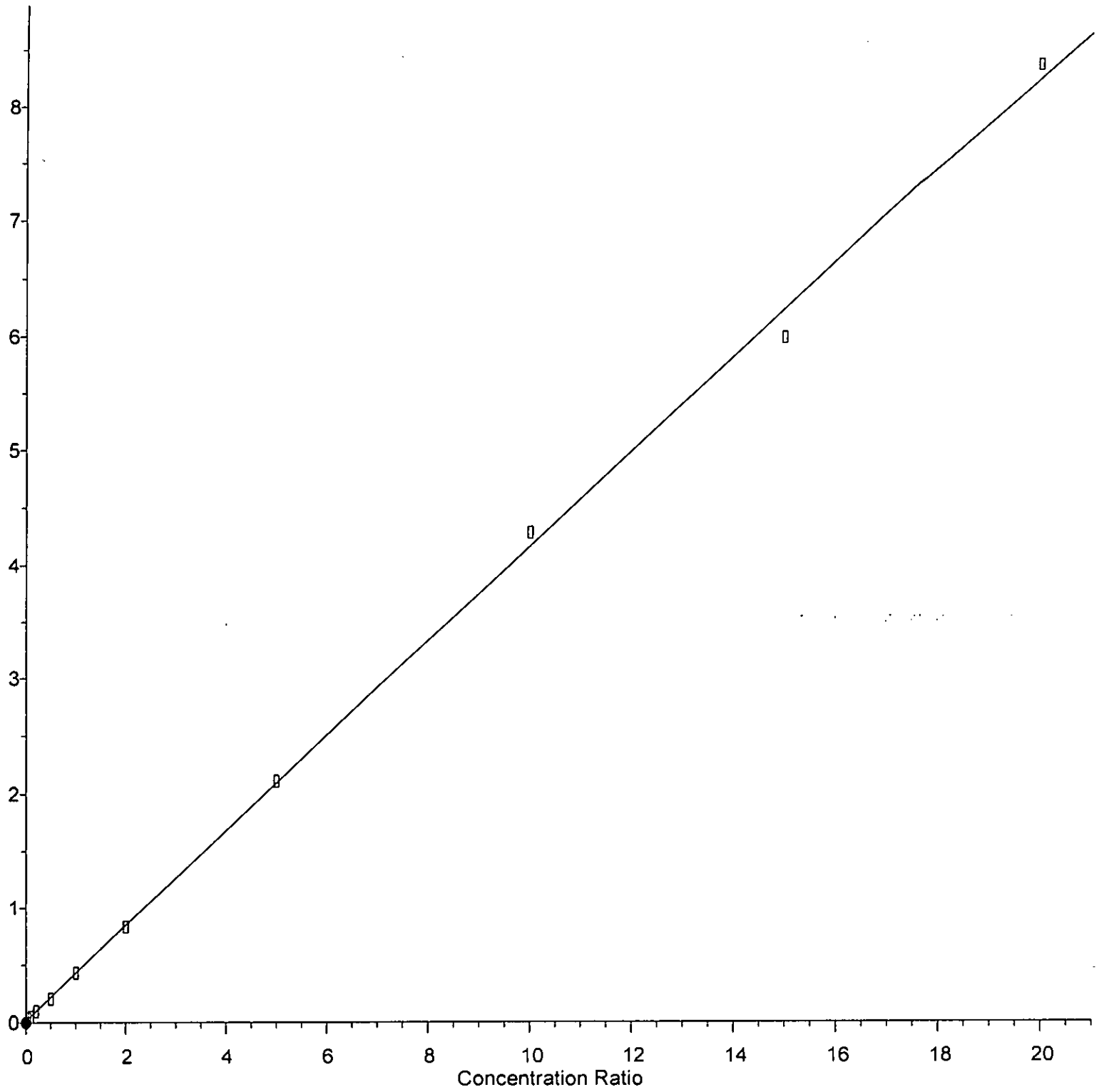
Coef of Det (r^2) = 0.999641 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Hexane

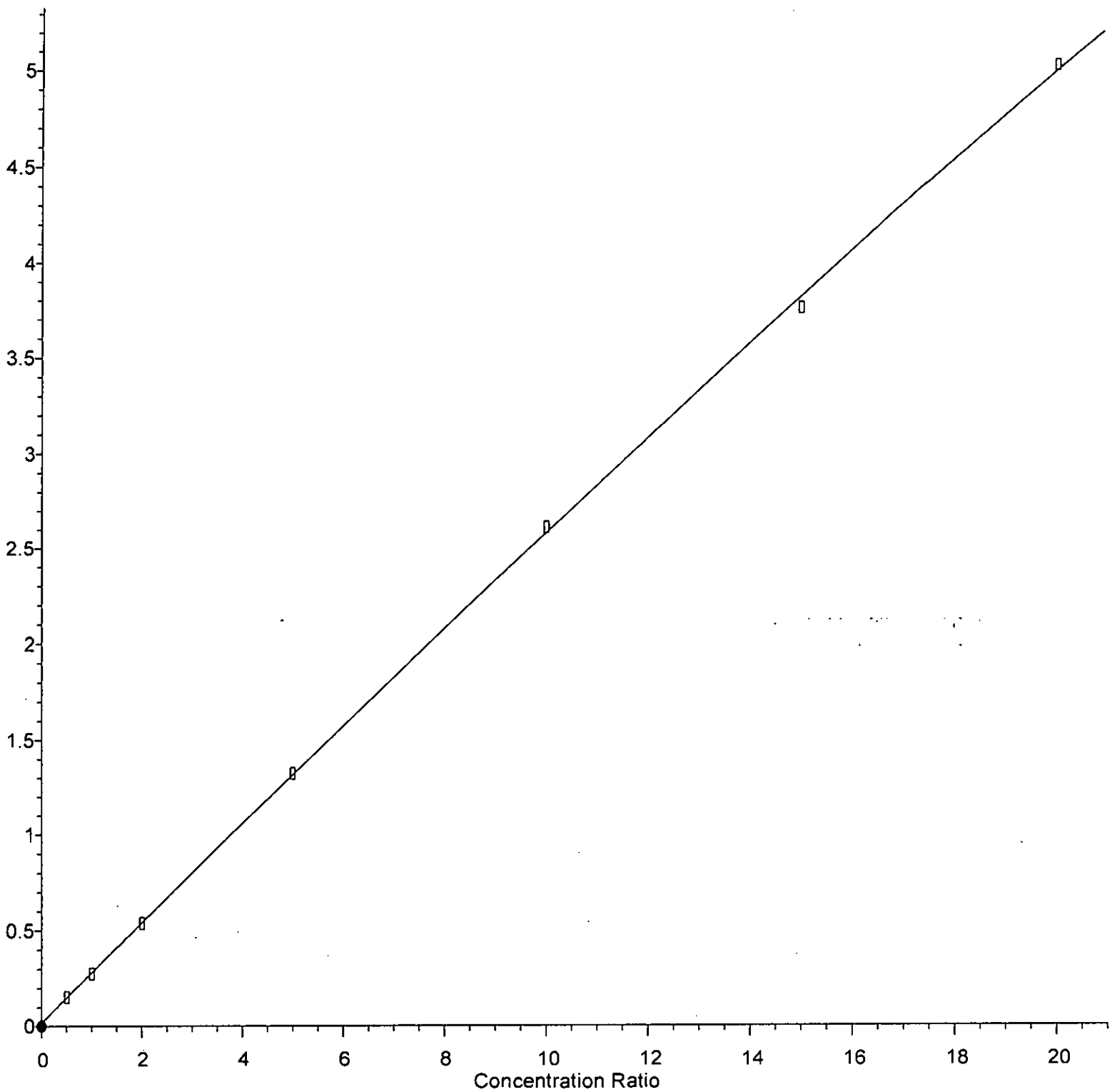
Response Ratio



Response = 4.161e-001 \* Amt + 1.350e-002  
Coef of Det (r^2) = 0.999197 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Methylene chloride

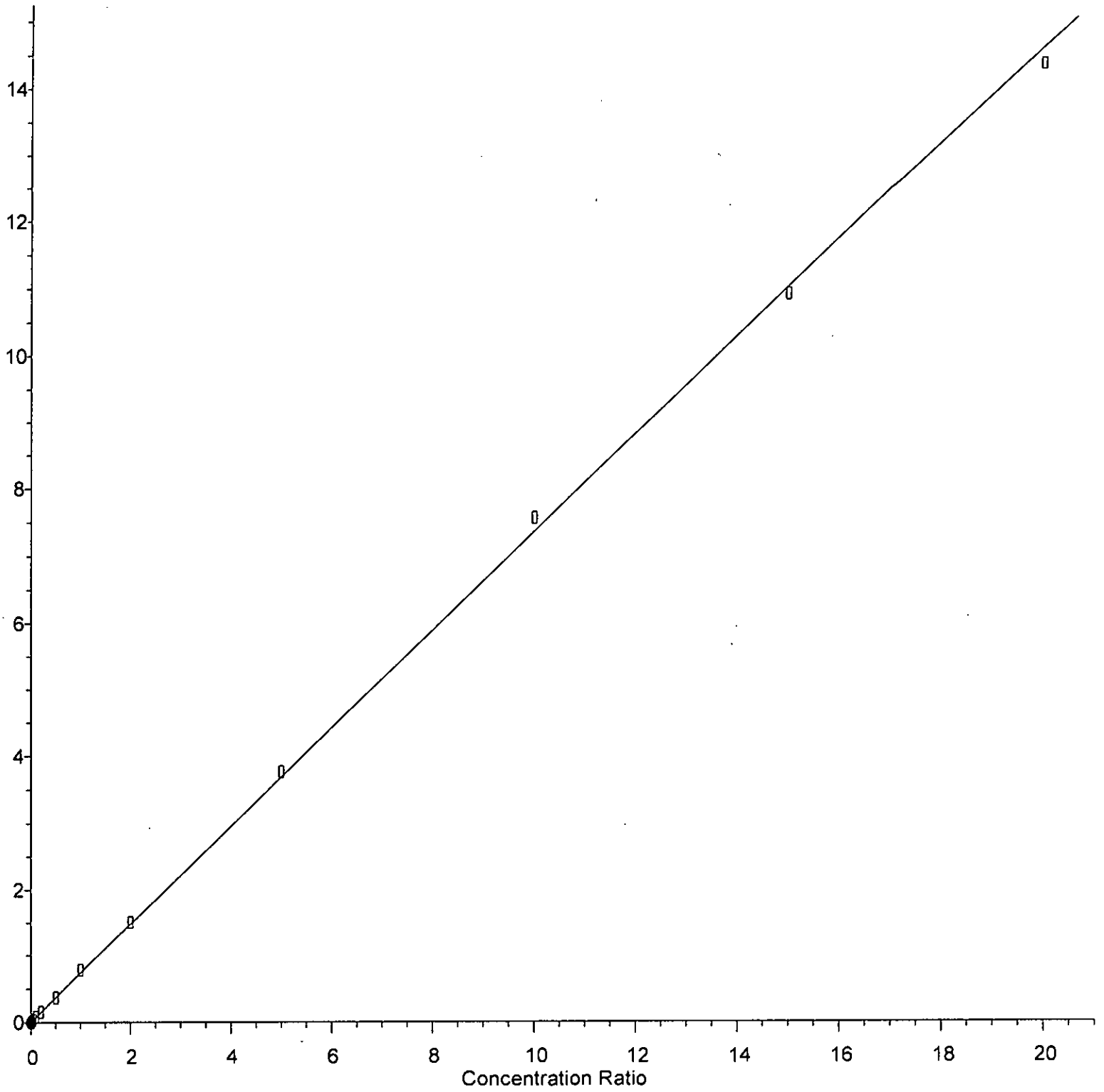
Response Ratio



R = -5.451e-004 A\*A + 2.624e-001 A + 1.955e-002  
Coef of Det (r^2) = 0.999837 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Methyl t-butyl ether (MTBE)

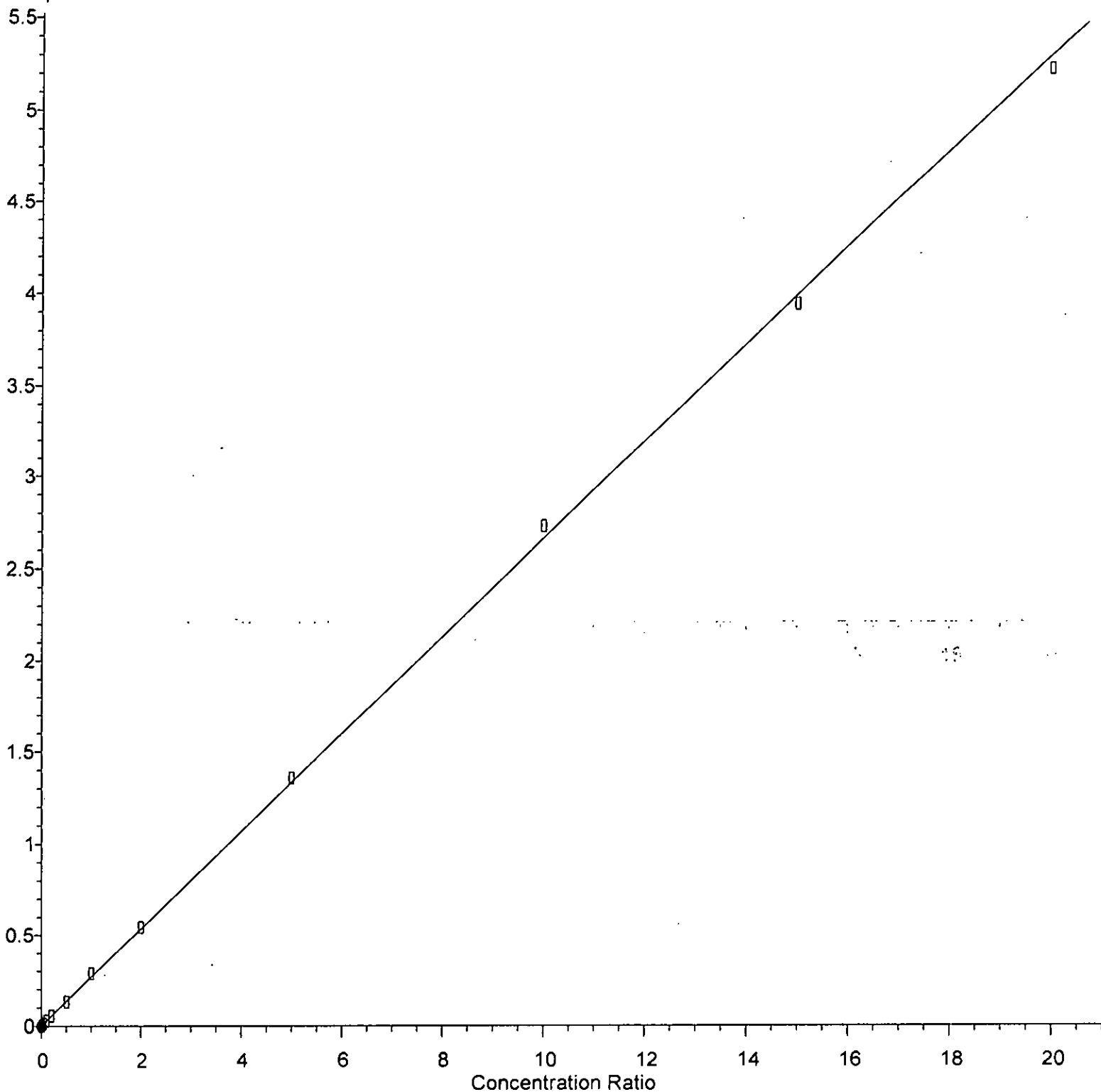
Response Ratio



Response = 7.386e-001 \* Amt + 1.381e-003  
Coef of Det (r^2) = 0.999577 Curve Fit: wlr(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

trans-1,2-Dichloroethene

Response Ratio



Response = 2.664e-001 \* Amt + 9.075e-004

Coef of Det (r^2) = 0.999586 Curve Fit: wlr(1/a)

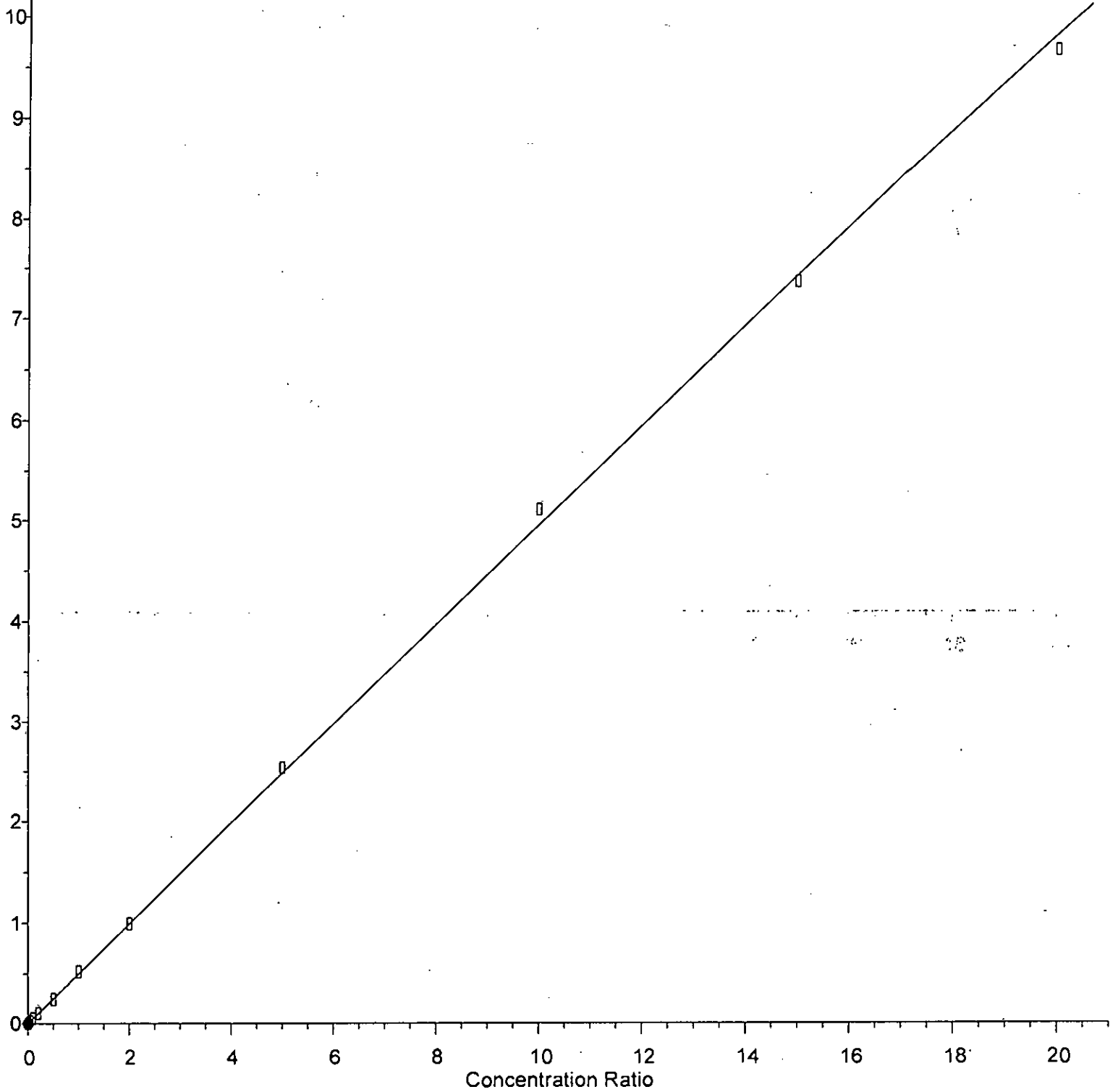
Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022



1,1-Dichloroethane

Response Ratio



Response =  $4.968e-001 \cdot \text{Amt} + 9.464e-004$

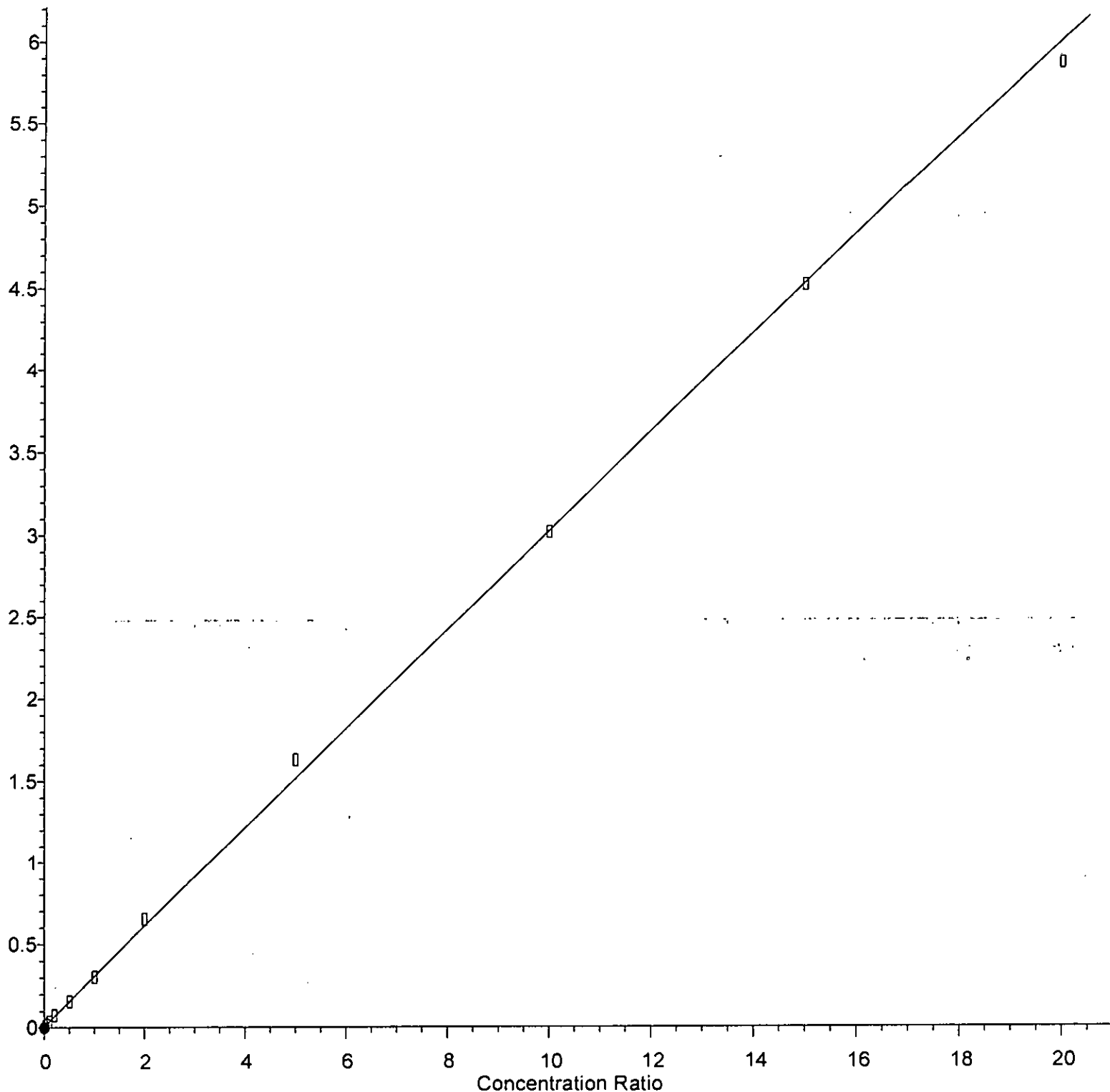
Coef of Det ( $r^2$ ) = 0.999594 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

2,2-Dichloropropane

Response Ratio



Response =  $3.024e-001 \cdot \text{Amt} + 5.501e-003$

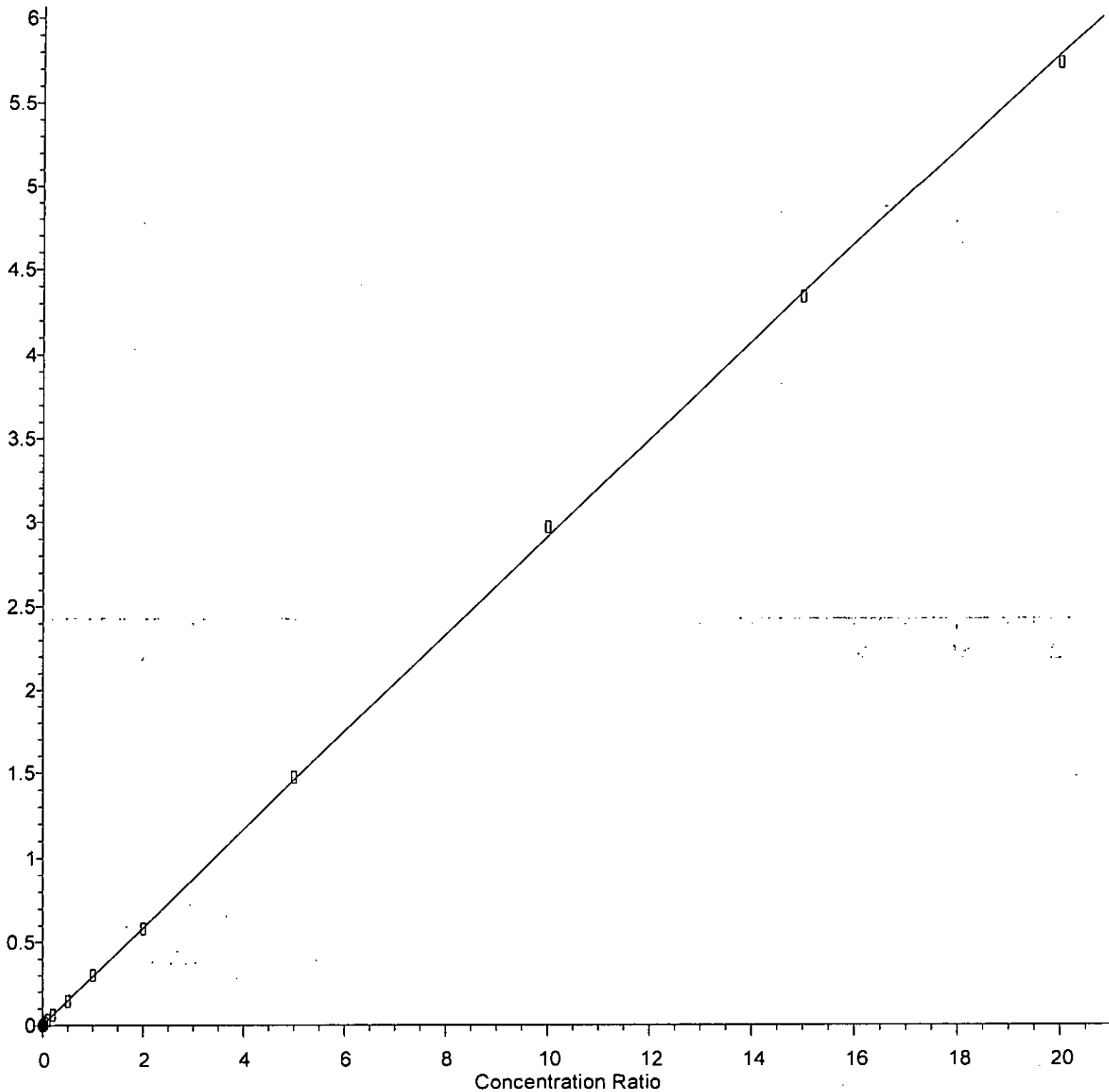
Coef of Det ( $r^2$ ) = 0.998964 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

cis-1,2-Dichloroethene

Response Ratio



Response = 2.916e-001 \* Amt + 7.083e-004

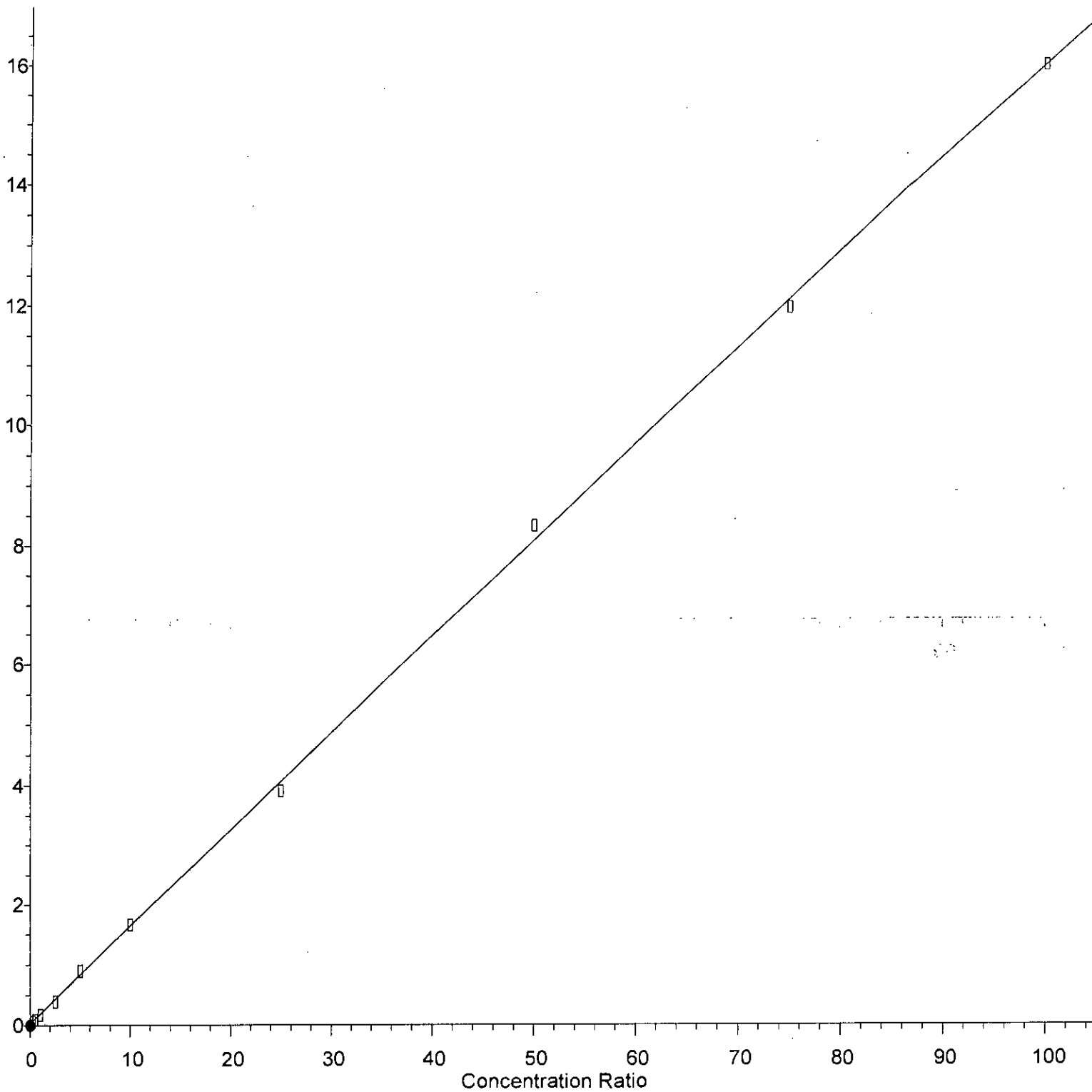
Coef of Det (r^2) = 0.999836 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

2-Butanone (MEK)

Response Ratio



Response = 1.614e-001 \* Amt + 2.621e-002

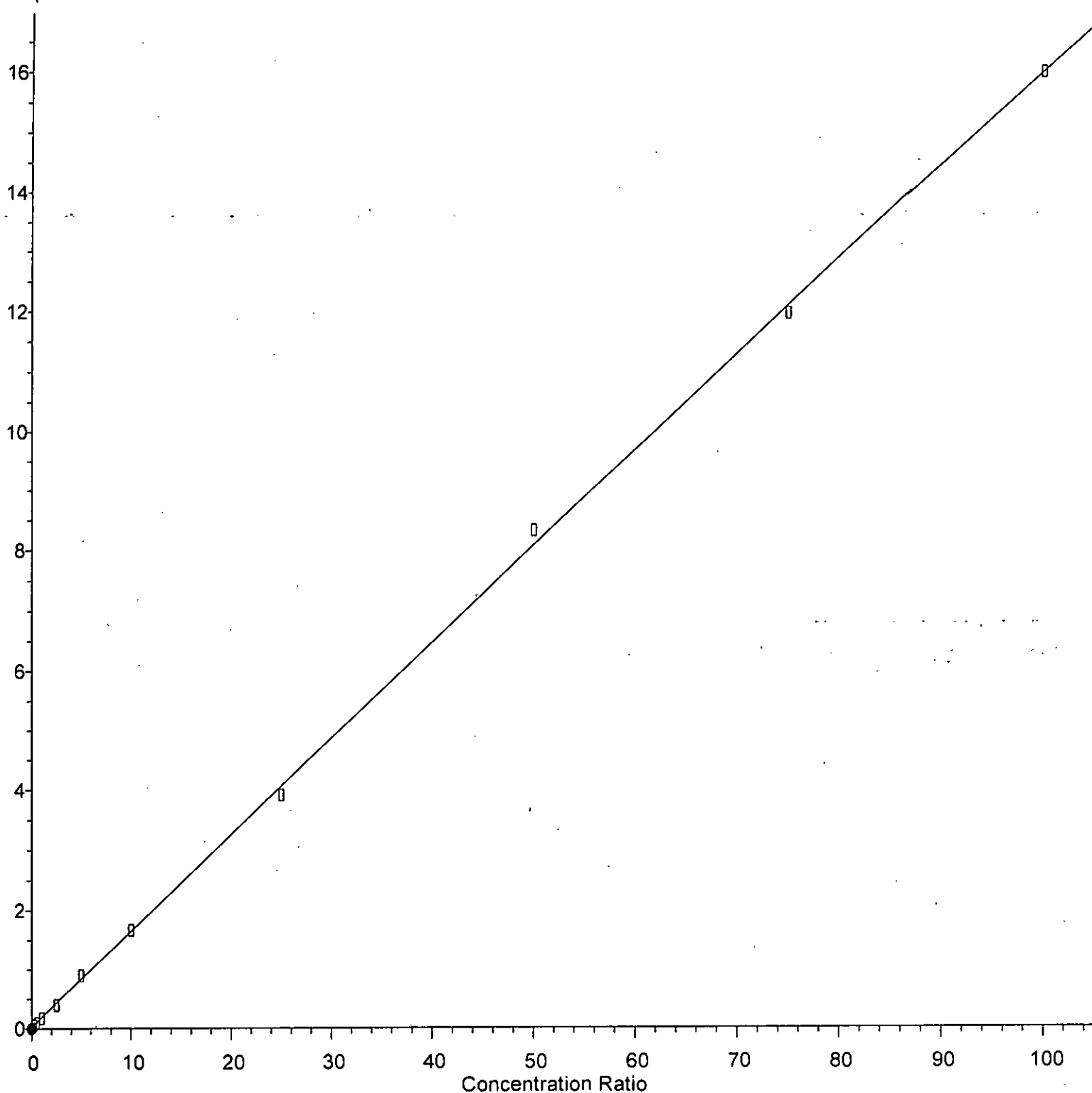
Coef of Det (r^2) = 0.999649 Curve Fit: Linear

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

2-Butanone (MEK)

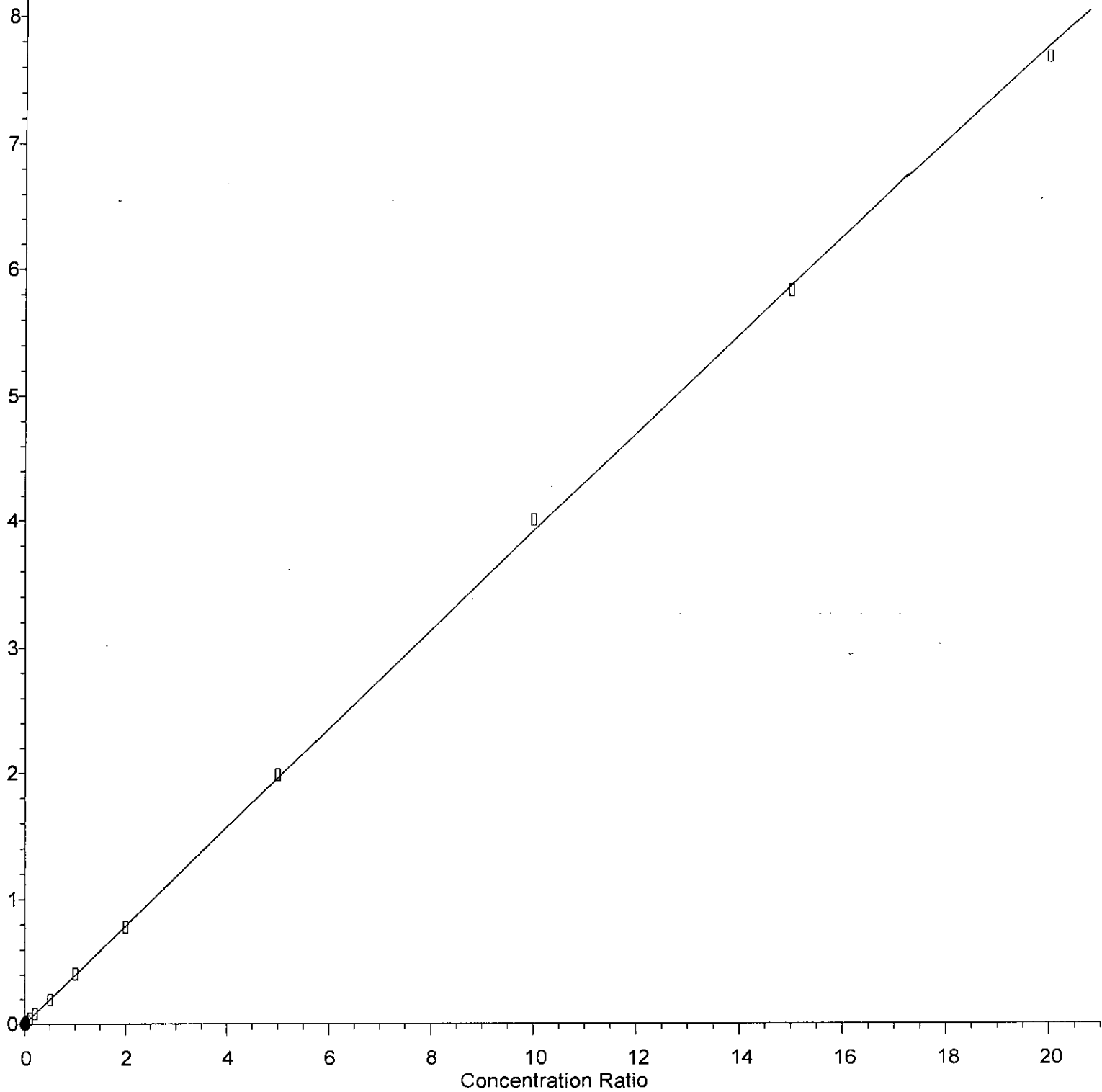
Response Ratio



Response = 1.614e-001 \* Amt + 2.621e-002  
Coef of Det (r^2) = 0.999649 Curve Fit: Linear  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,2-Dichloroethane (EDC)

Response Ratio



Response = 3.922e-001 \* Amt + 1.631e-003

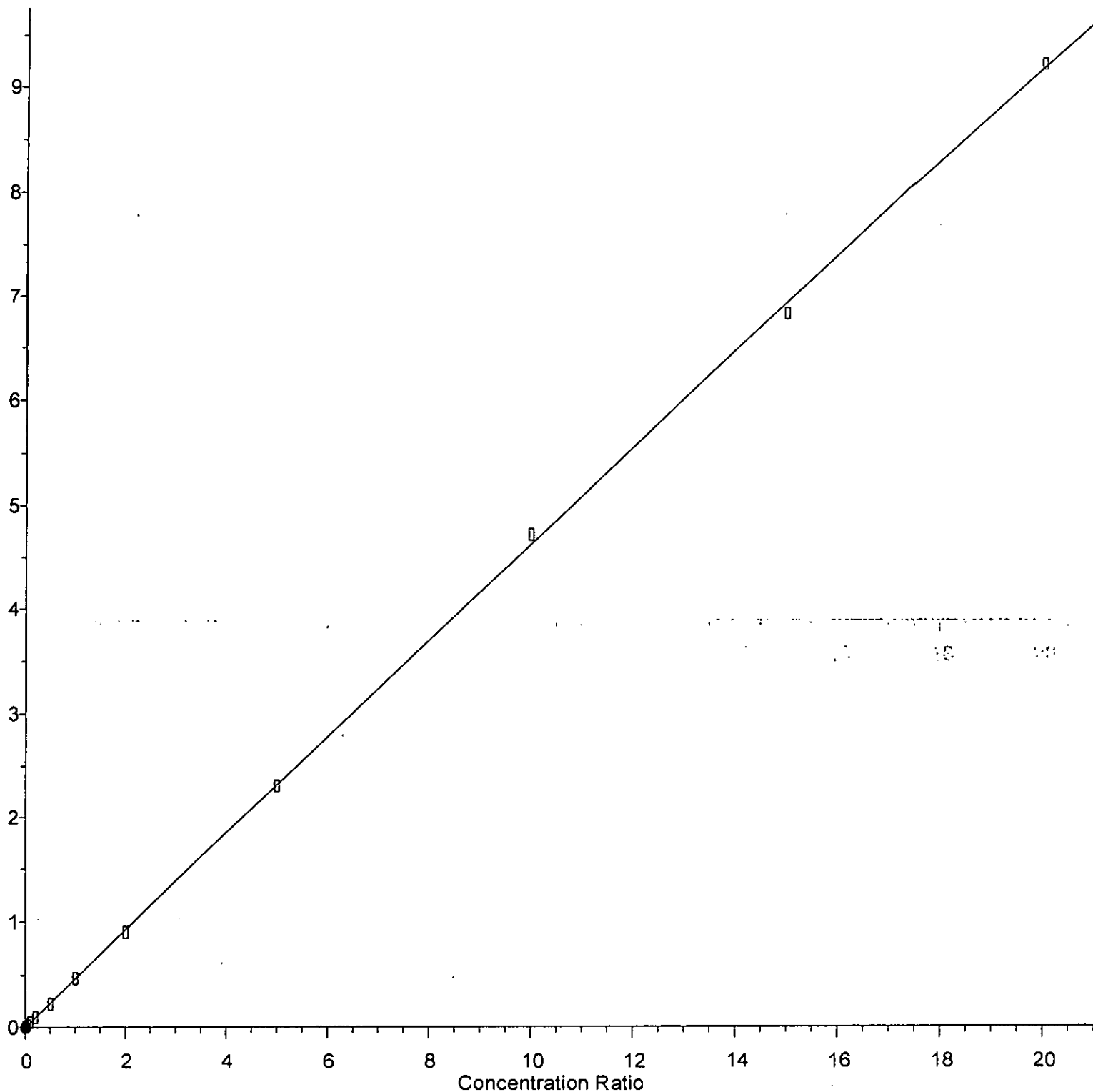
Coef of Det (r^2) = 0.999773 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,1,1-Trichloroethane

Response Ratio



Response = 4.629e-001 \* Amt + 5.913e-004

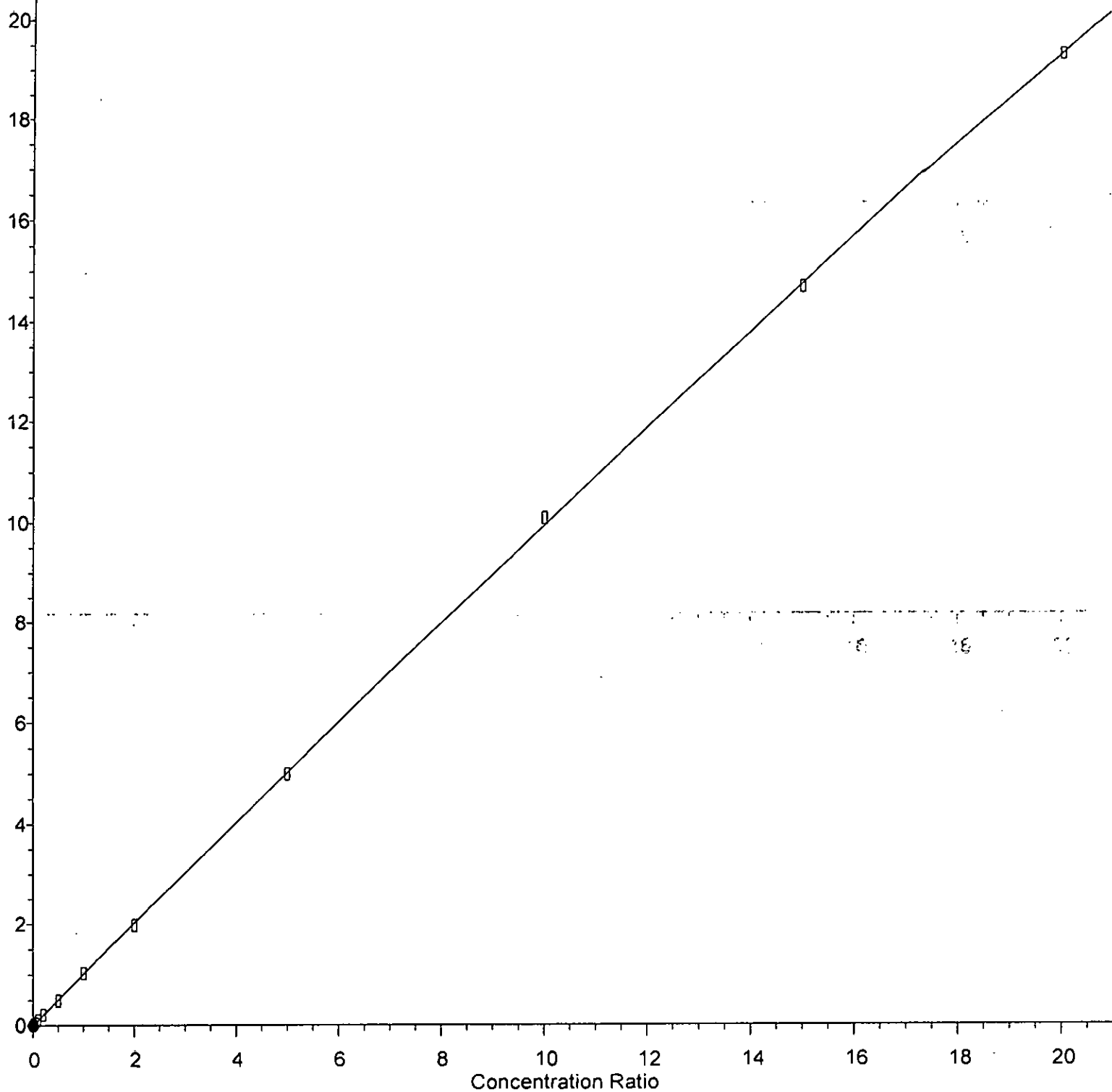
Coef of Det (r^2) = 0.999794 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

# Benzene

Response Ratio

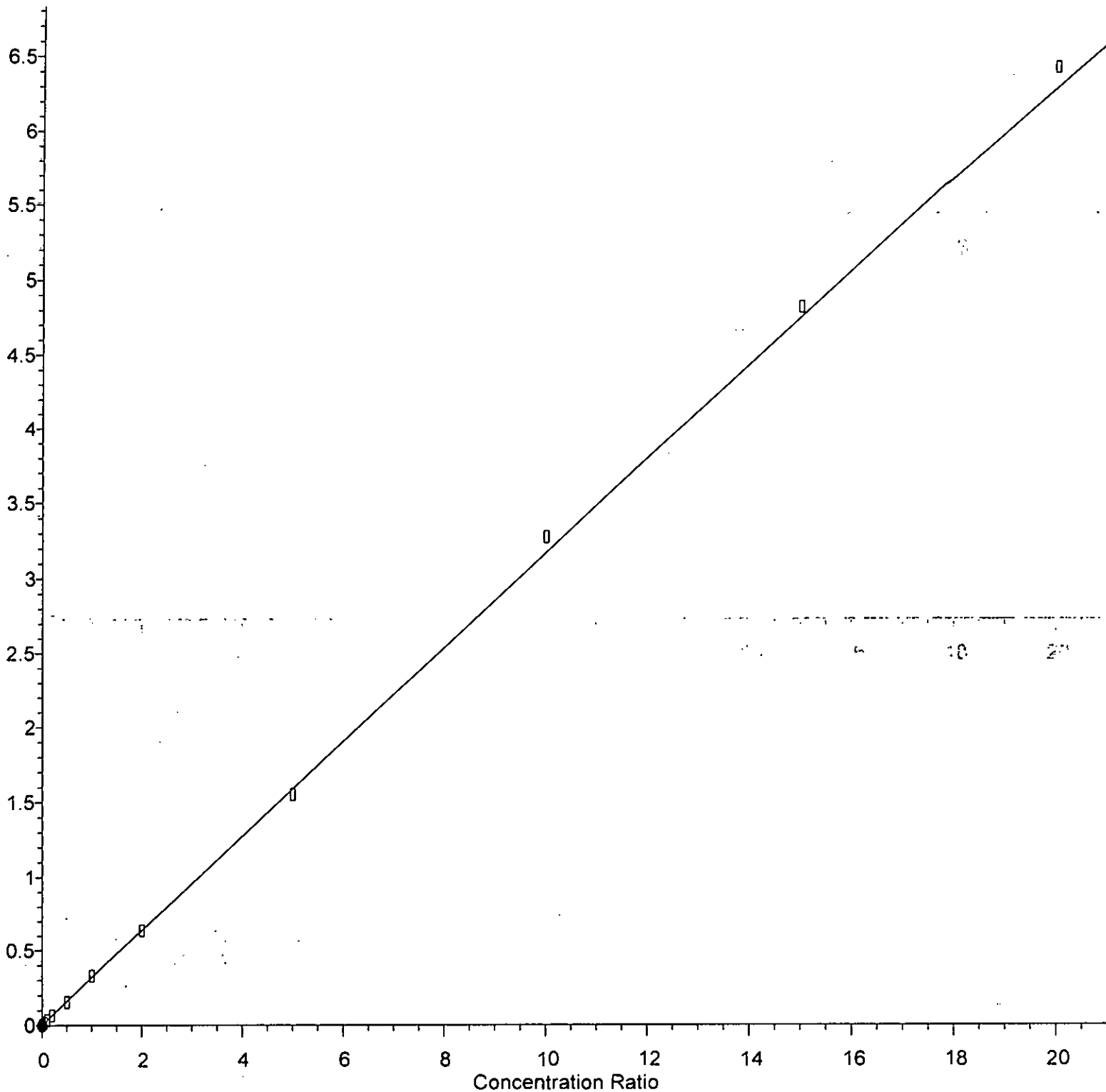


$R = -1.837e-003 A^2 + 1.015e+000 A + 1.815e-003$   
Coef of Det ( $r^2$ ) = 0.999902 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022



Trichloroethene

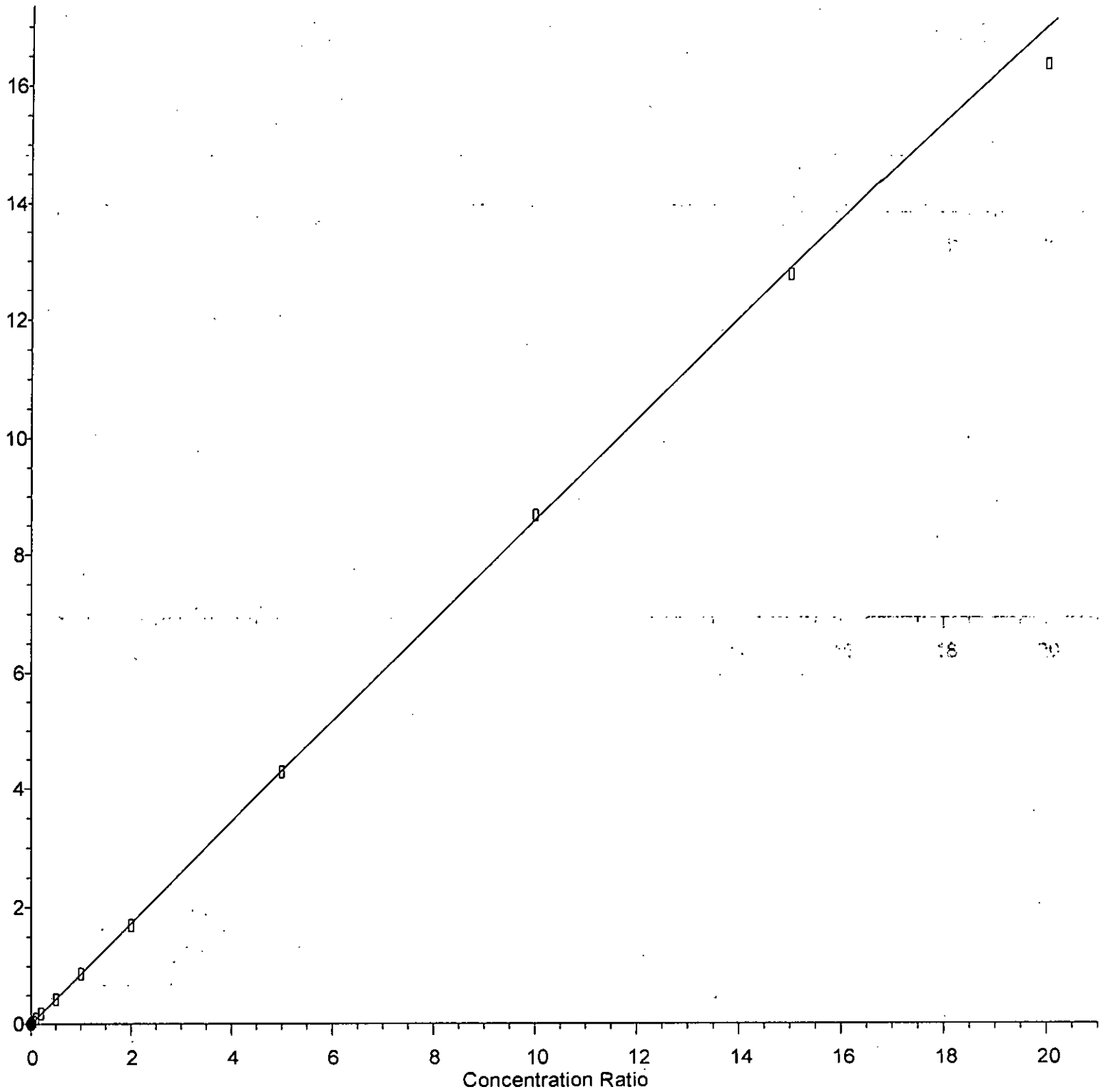
Response Ratio



Response =  $3.178e-001 * Amt + 9.519e-004$   
Coef of Det ( $r^2$ ) = 0.998821 Curve Fit:  $wlr(1/a^2)$   
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Toluene

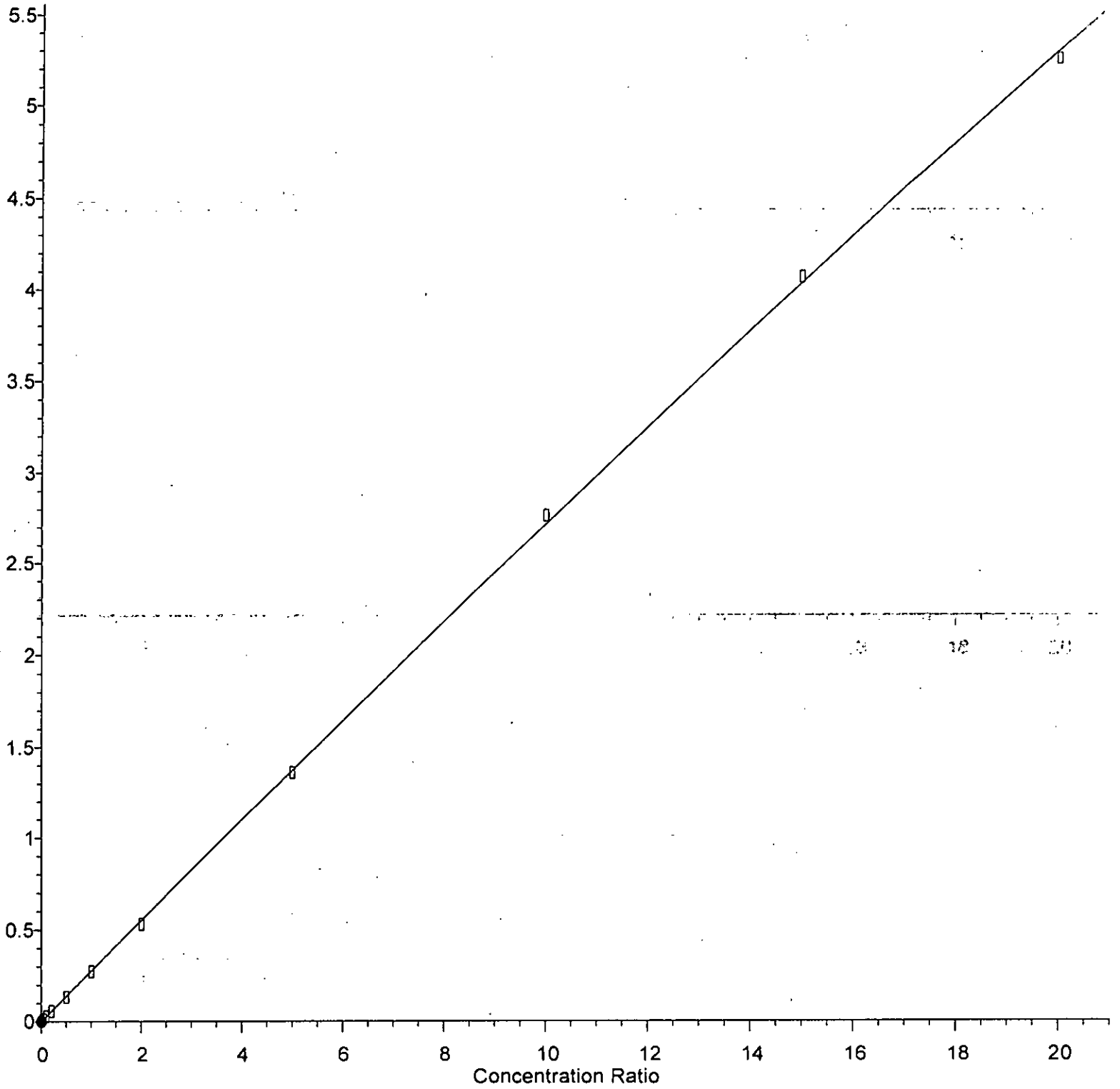
Response Ratio



Response = 8.608e-001 \* Amt + 2.362e-003  
Coef of Det (r^2) = 0.999151 Curve Fit: wlr(1/a^2)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,1,2-Trichloroethane

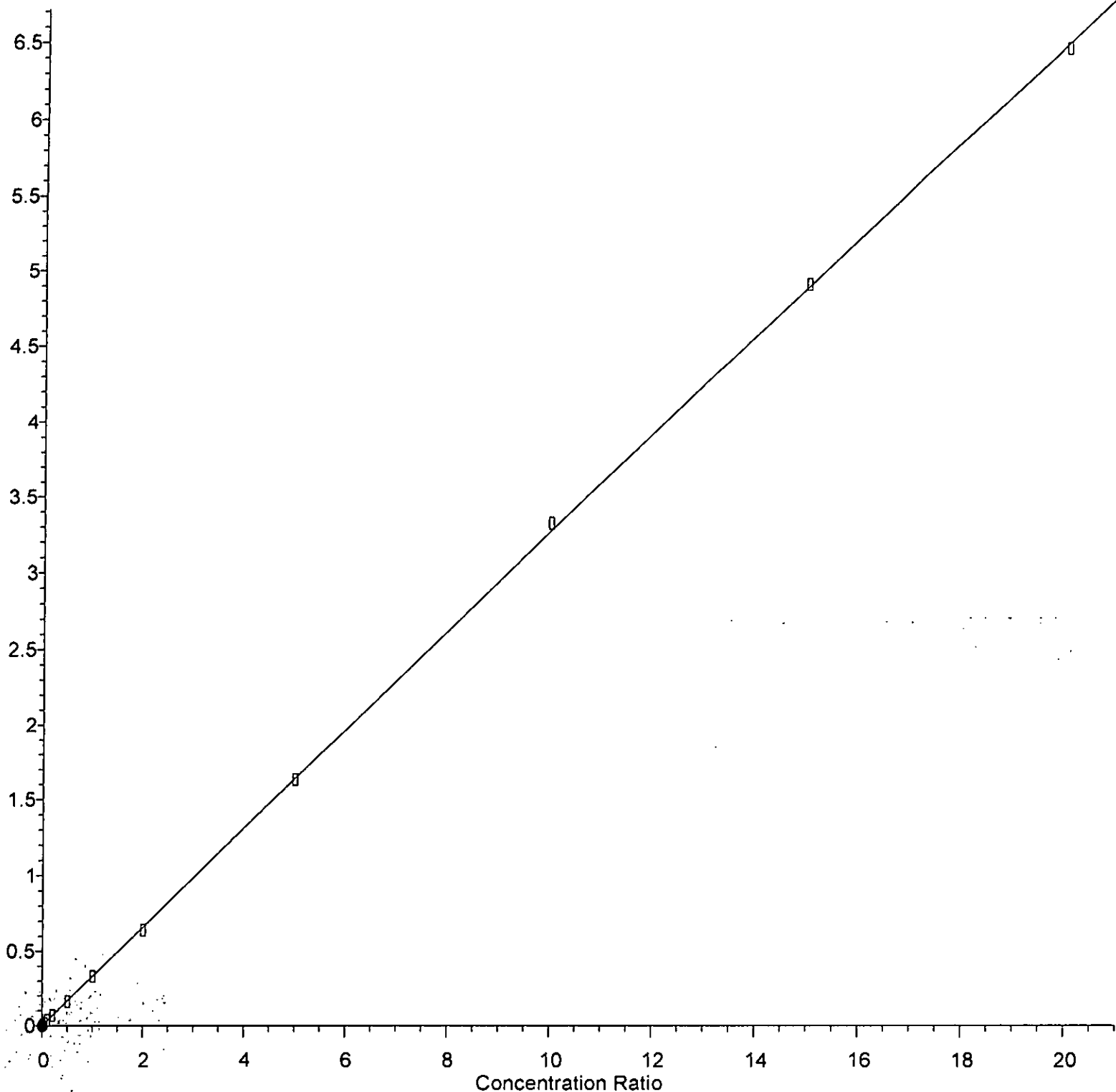
Response Ratio



$R = -5.032e-004 A^2 + 2.771e-001 A + 6.256e-004$   
Coef of Det ( $r^2$ ) = 0.999813 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

Tetrachloroethene

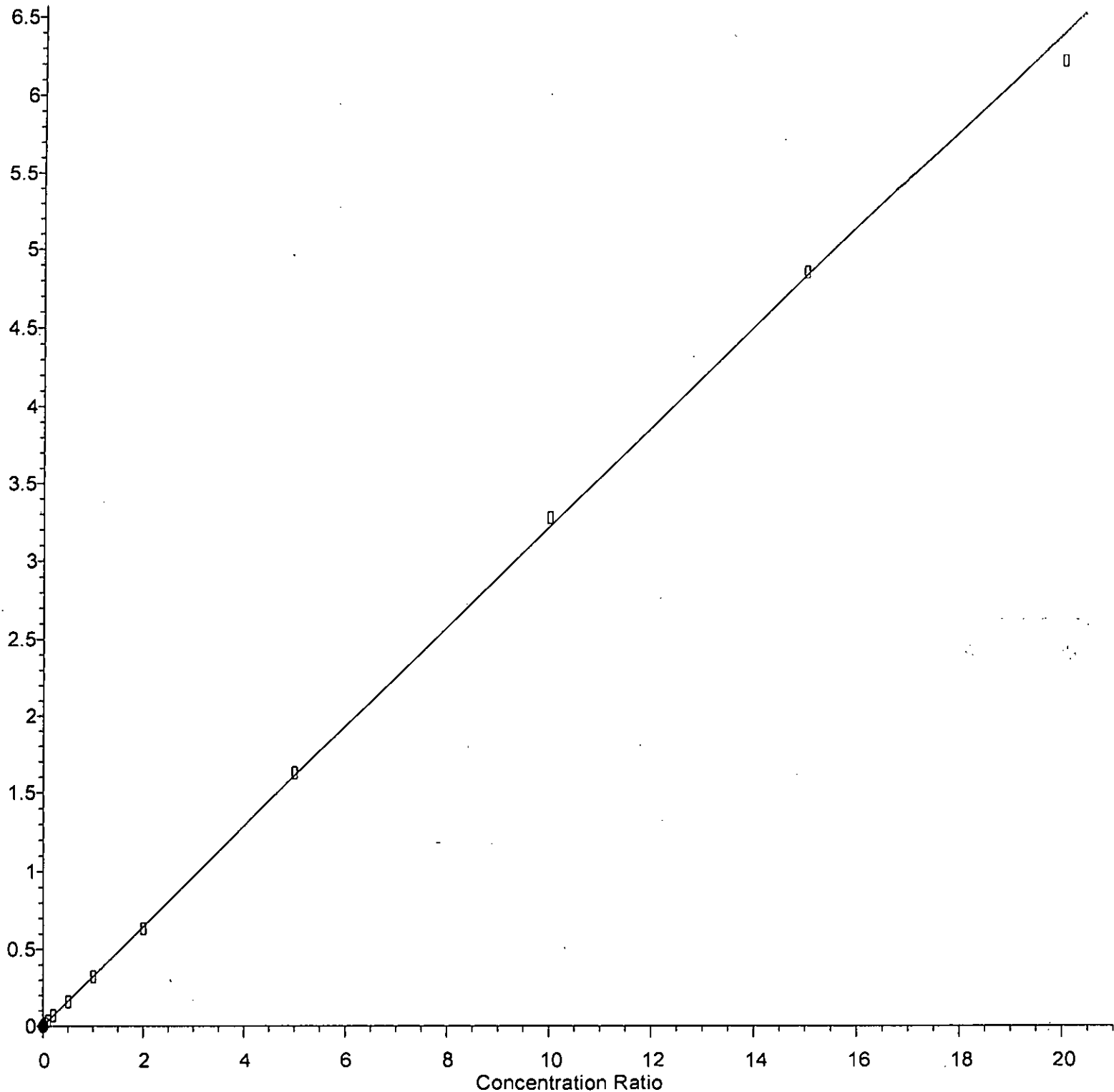
Response Ratio



$R = -4.275e-004 A^2 + 3.295e-001 A + 1.735e-003$   
Coef of Det ( $r^2$ ) = 0.999891 Curve Fit: Quadratic w(1/a)  
Method Name: Y:\Methods\Inst11\VB120222ms11.M  
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

1,2-Dibromoethane (EDB)

Response Ratio



Response =  $3.219e-001 * Amt + 1.083e-003$

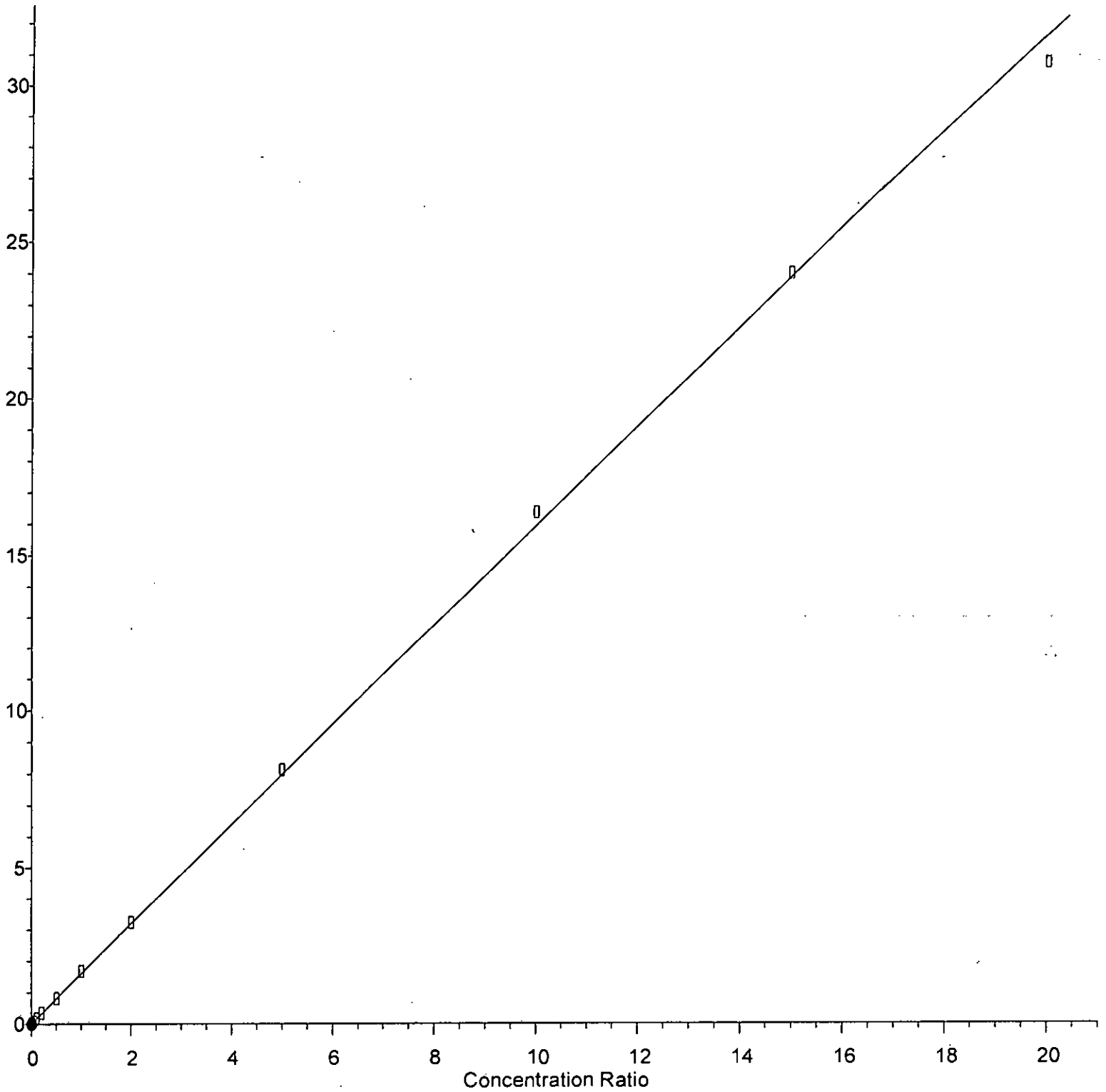
Coef of Det ( $r^2$ ) = 0.999031 Curve Fit: wlr(1/a^2)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

# Ethylbenzene

Response Ratio



$$\text{Response} = 1.596e+000 * \text{Amt} + 5.460e-003$$

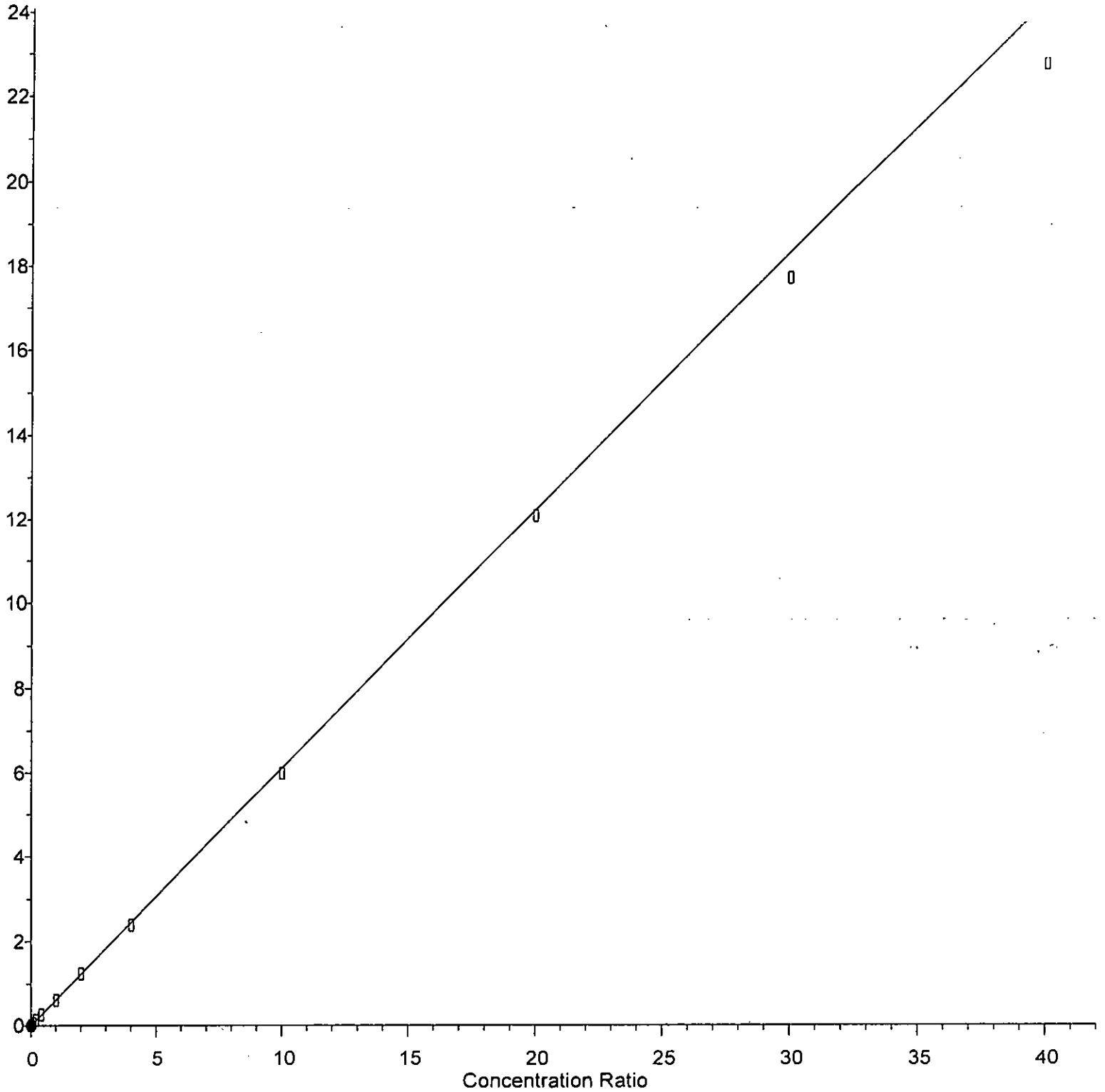
Coef of Det ( $r^2$ ) = 0.999407 Curve Fit: wlr(1/a)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

m,p-Xylene

Response Ratio



Response =  $6.115e-001 \cdot \text{Amt} + 3.543e-003$

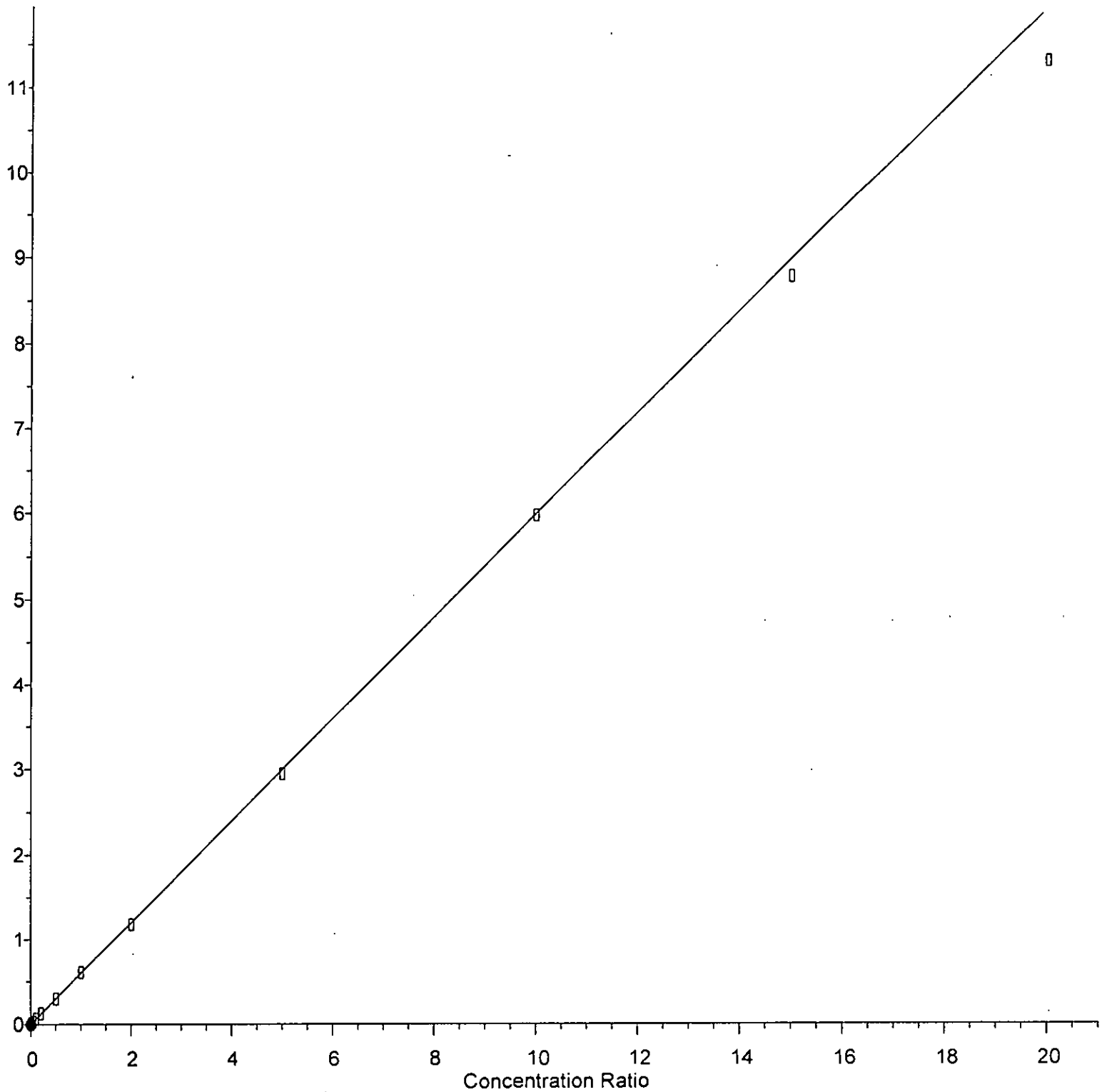
Coef of Det ( $r^2$ ) = 0.998172 Curve Fit:  $wlr(1/a^2)$

Method Name: Y:\Methods\Inst11\VB120222ms11.M

Calibration Table Last Updated: Mon Dec 05 13:11:58 2022

o-Xylene

Response Ratio



Response = 6.004e-001 \* Amt + 1.549e-003

Coef of Det (r^2) = 0.998489 Curve Fit: wlr(1/a^2)

Method Name: Y:\Methods\Inst11\VB120222ms11.M

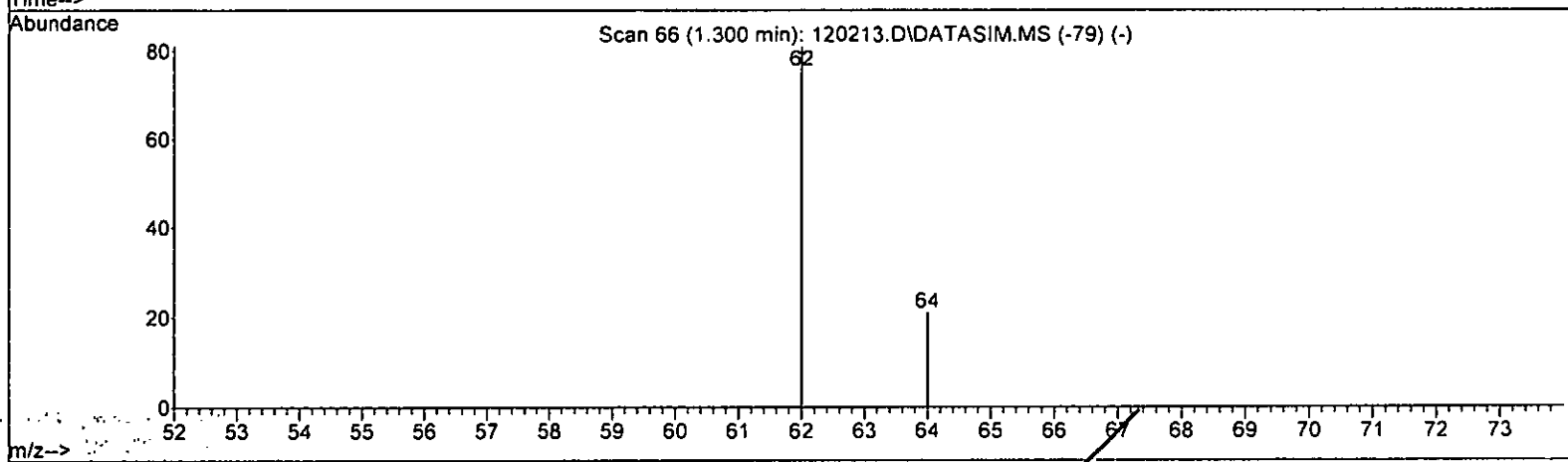
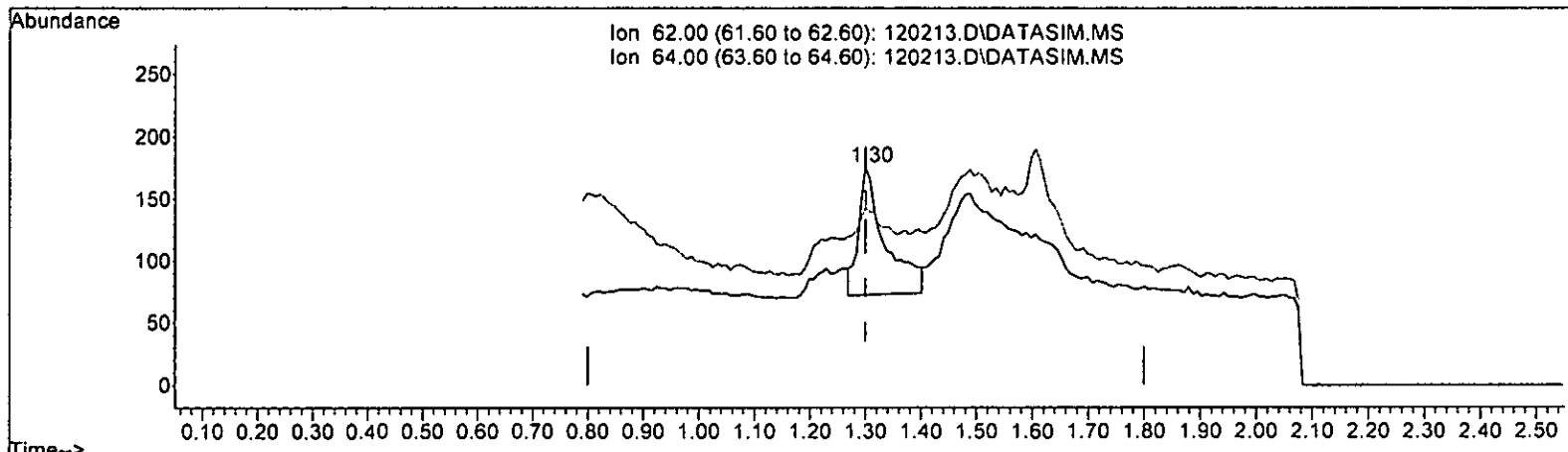
Calibration Table Last Updated: Mon Dec 05 13:11:58 2022



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 0.075 ppb

response 345

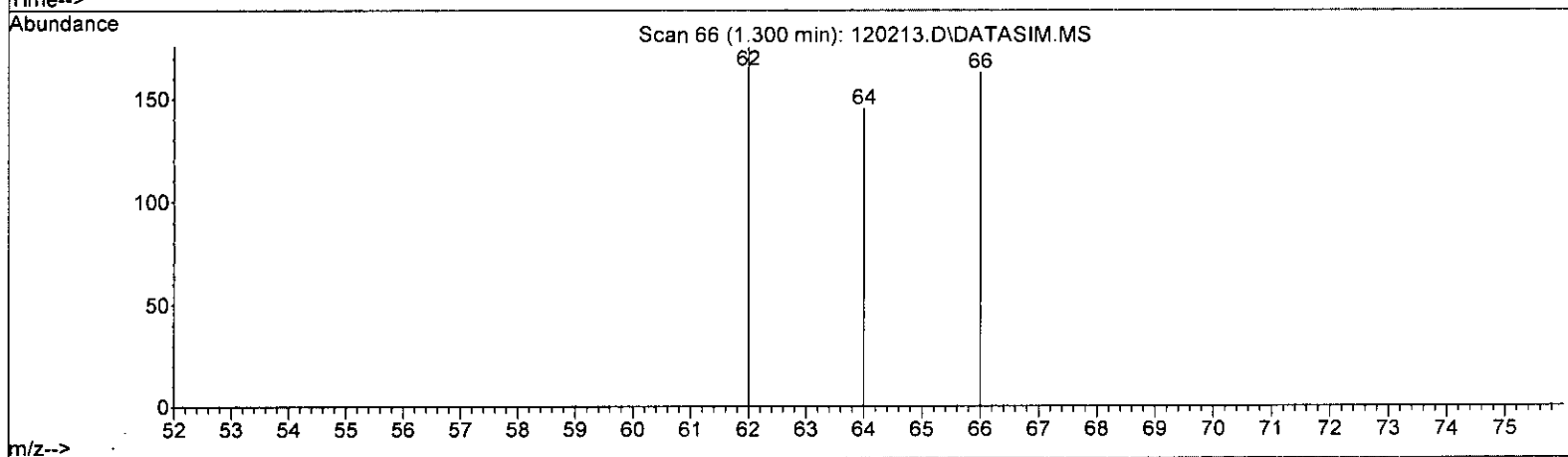
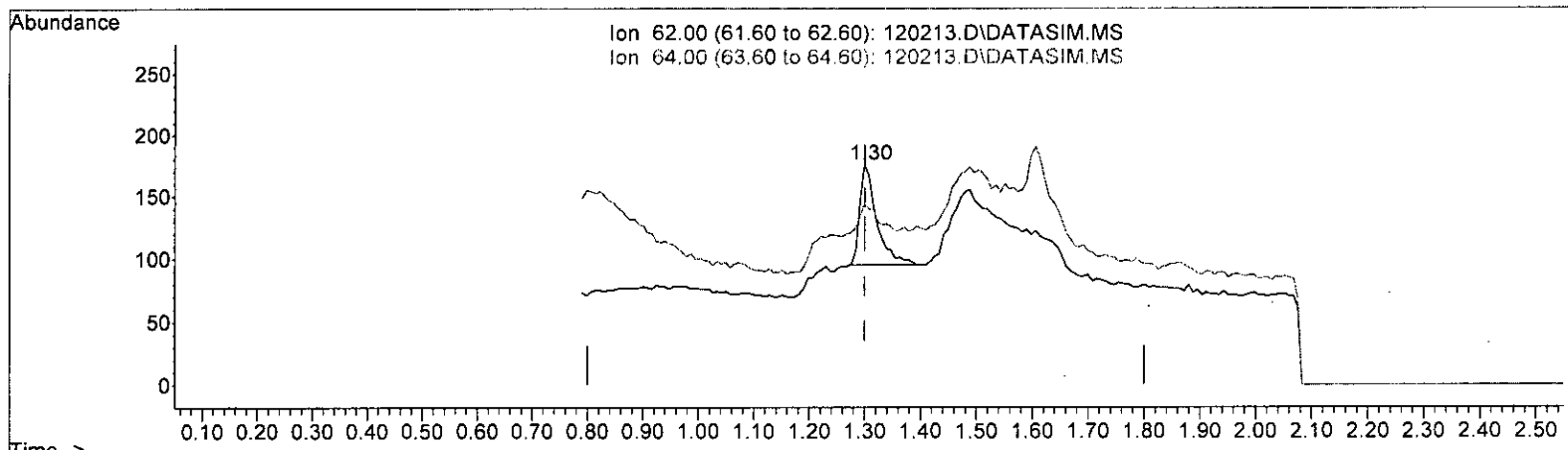
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	30.49
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 0.022 ppb m

response 169

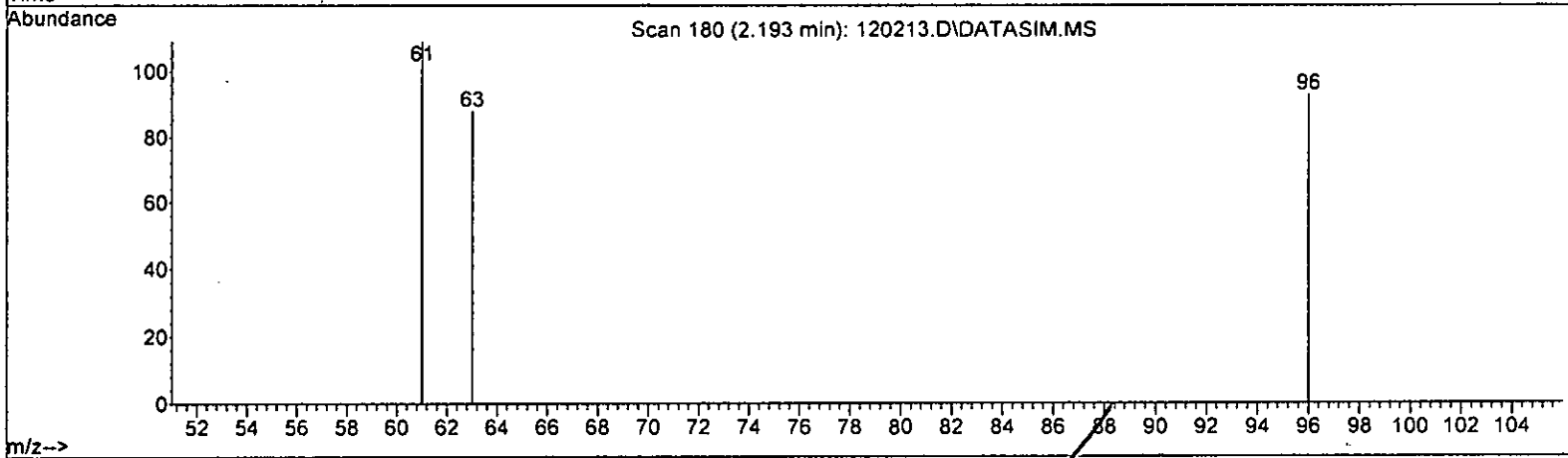
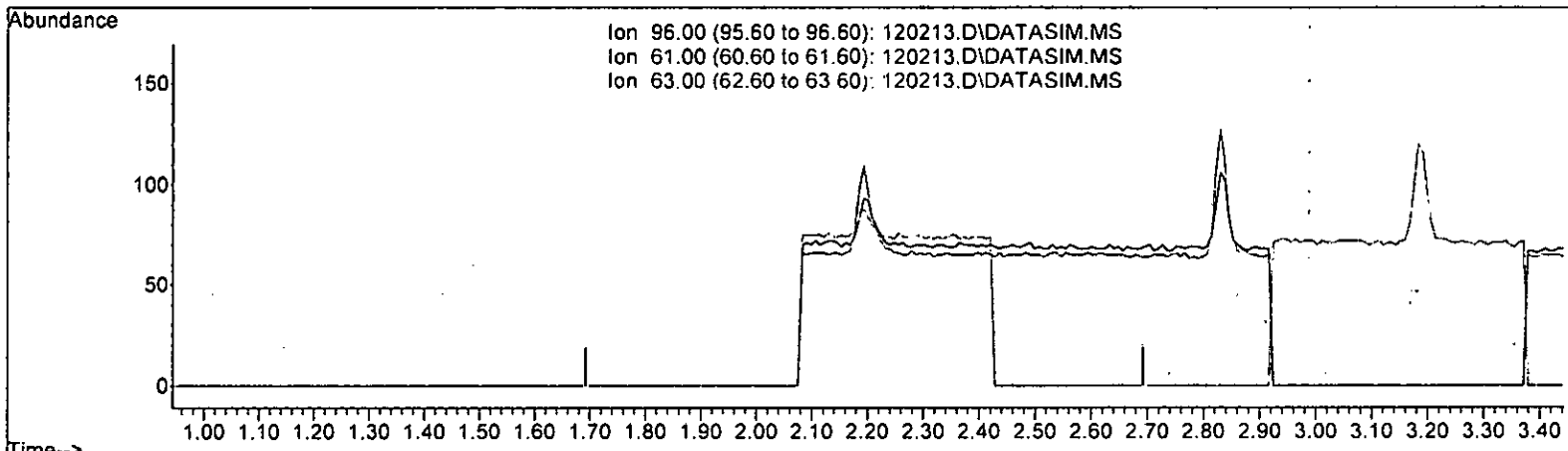
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	82.39#
0.00	0.00	0.00
0.00	0.00	0.00

*W 12.1*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-2.193) 0.000 ppb

response 0

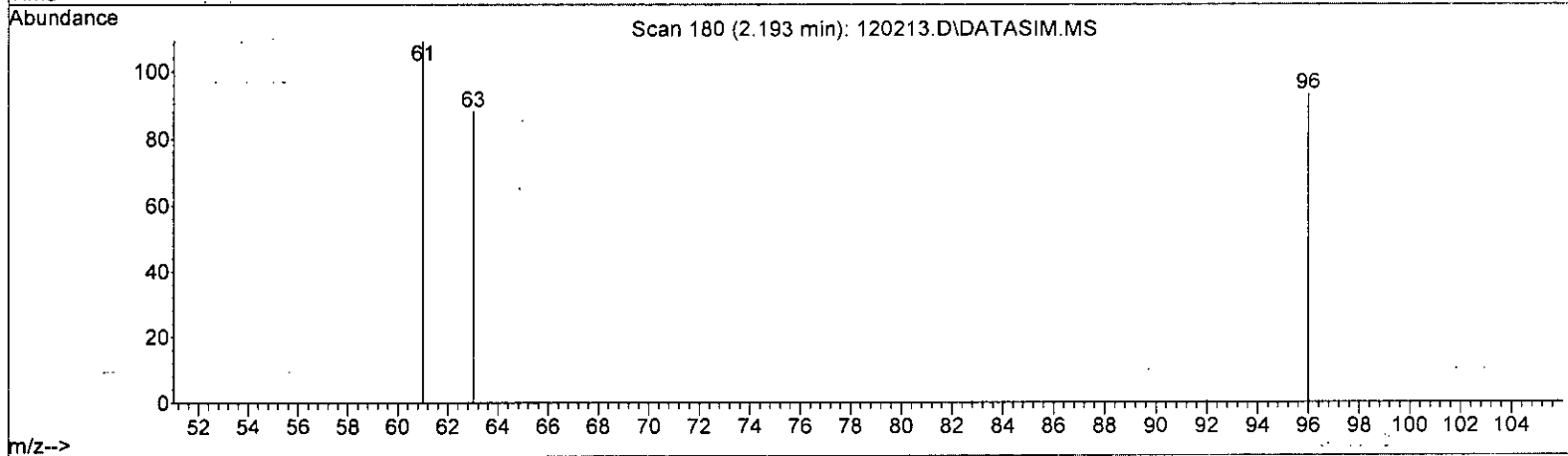
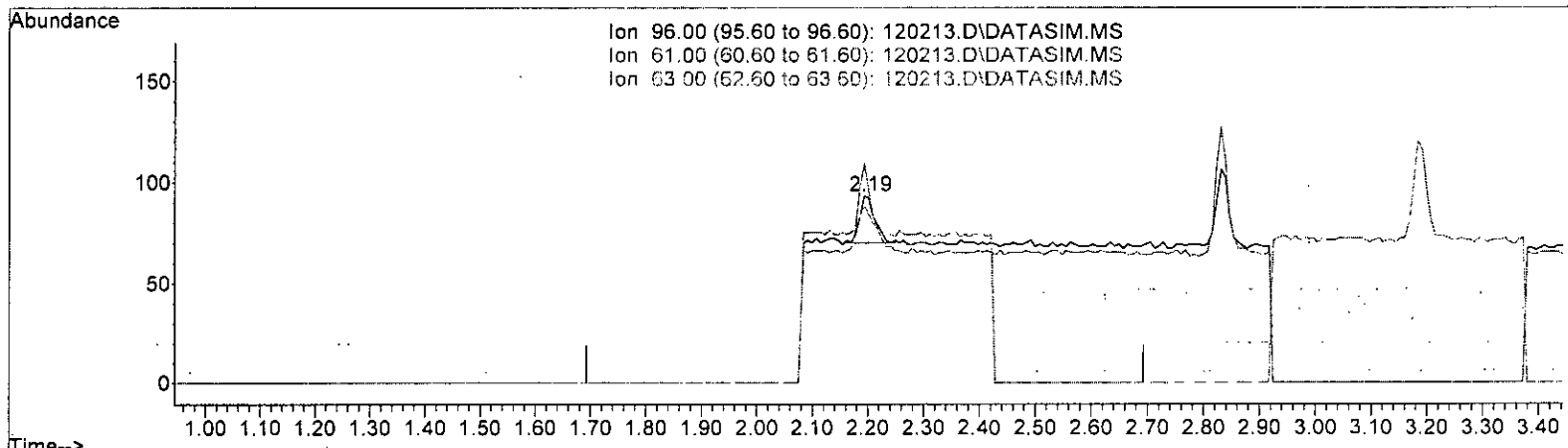
Ion	Exp%	Act%
96.00	100.00	0.00
61.00	148.60	0.00#
63.00	55.30	0.00#
0.00	0.00	0.00

*m 175*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 0.020 ppb m

response 43

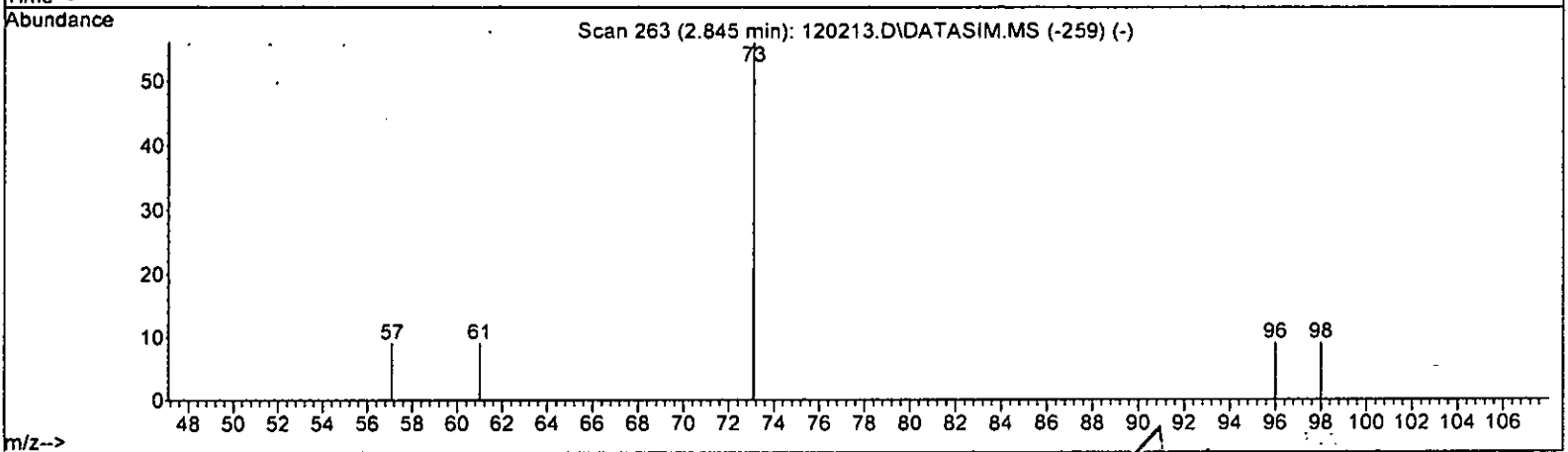
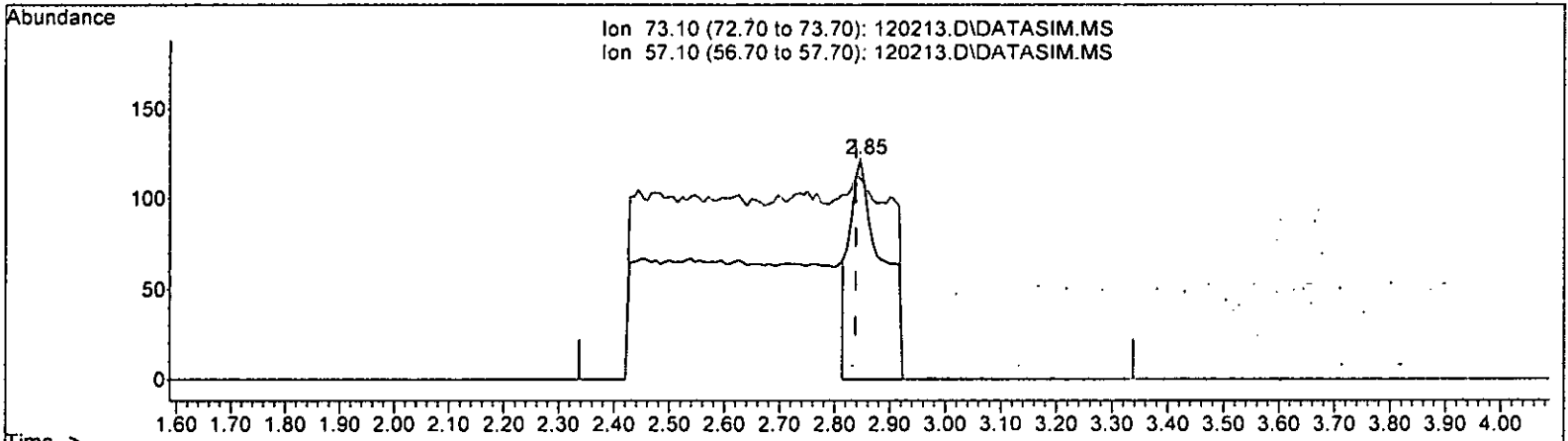
*LM 12.5*

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	117.20#
63.00	55.30	94.62#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.007) 0.133 ppb

response 497

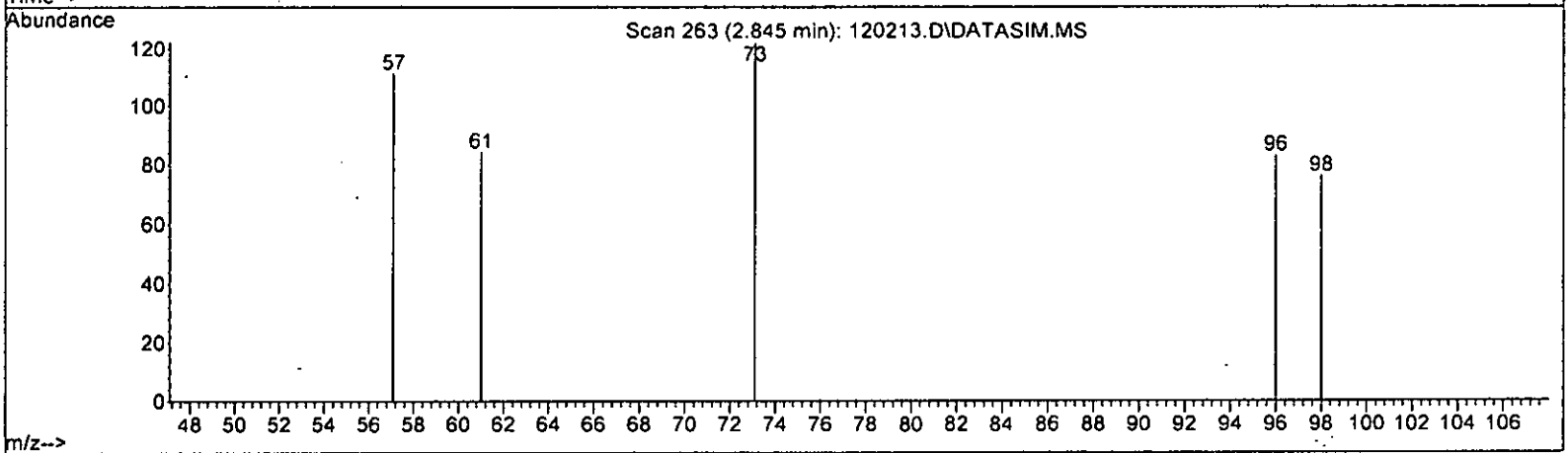
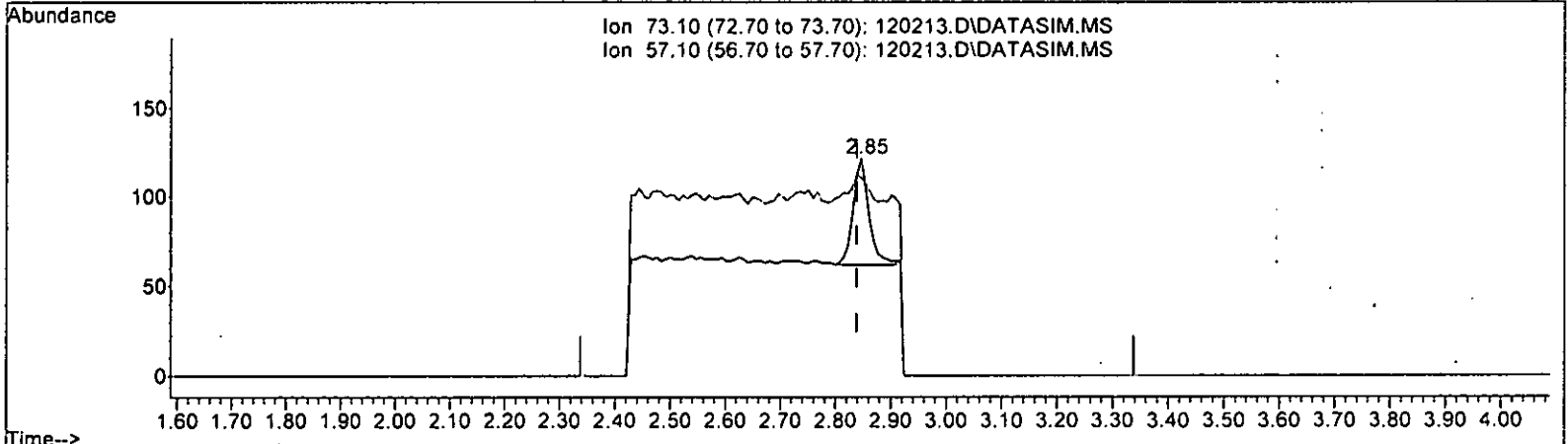
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	90.98#
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP) M 12.5

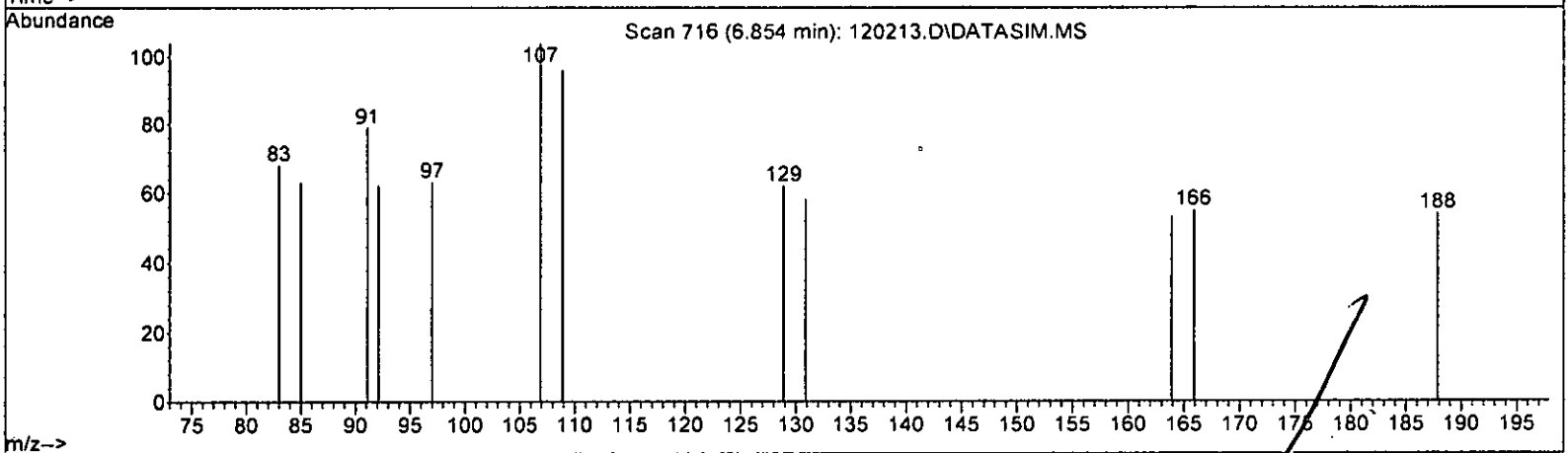
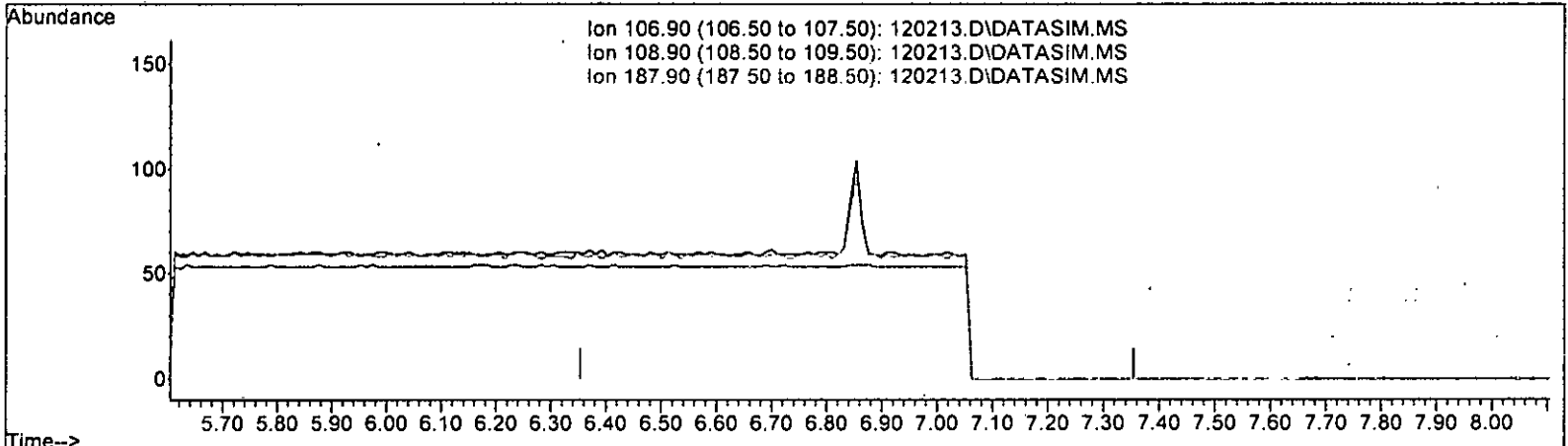
2.845min (+ 0.007) 0.017 ppb m

response	118
Ion	Exp% Act%
73.10	100.00 100.00
57.10	26.70 90.98#
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS

(47) 1,2-Dibromoethane (EDB) (TMP)

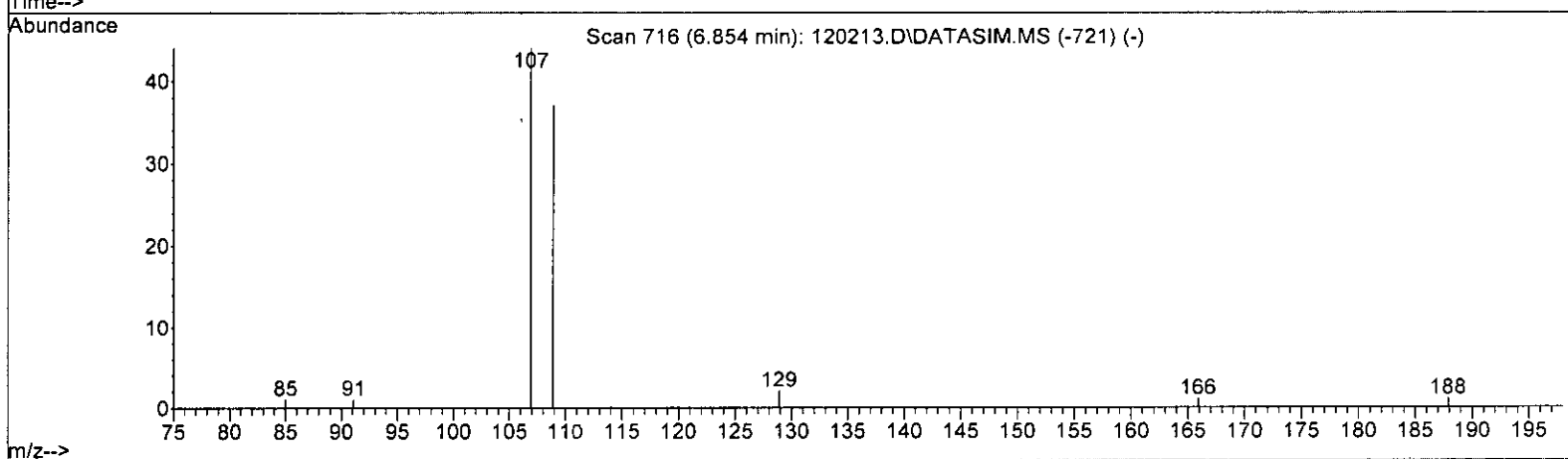
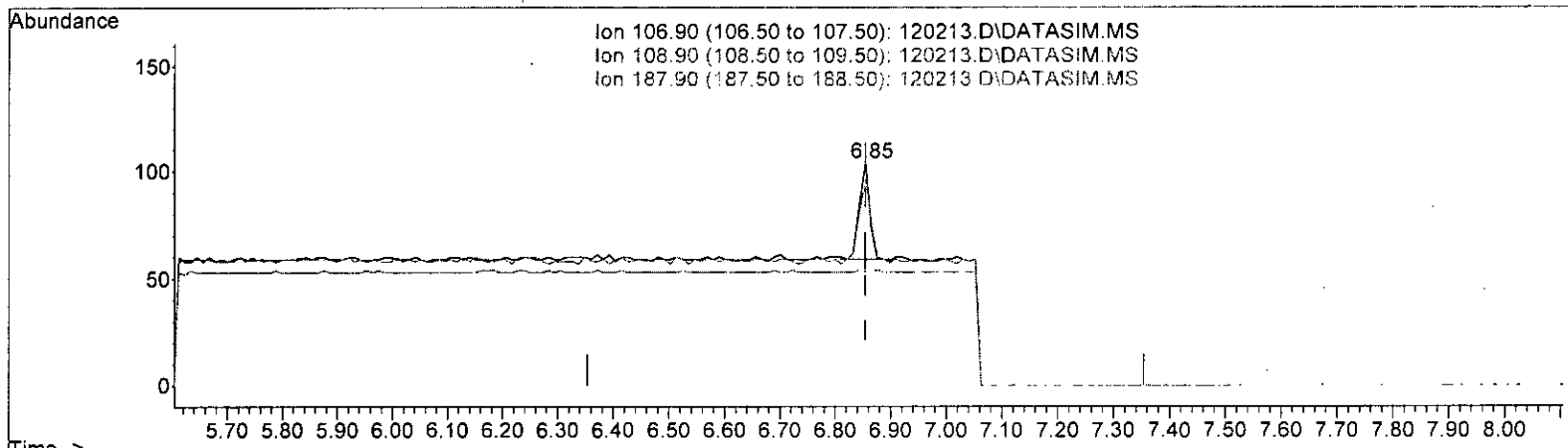
6.854min	0.000 ppb d
response	0
Ion	Exp% Act%
106.90	100.00 0.00
108.90	95.40 0.00
187.90	3.60 0.00
0.00	0.00 0.00

*Handwritten notes:* m, 27, 175

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120213.D\DATA.MS *m 12.5*

(47) 1,2-Dibromoethane (EDB) (TMP)

6.854min ( 0.000) 0.017 ppb m

response 57

Ion	Exp%	Act%
106.90	100.00	100.00
108.90	95.40	92.31
187.90	3.60	51.92#
0.00	0.00	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.712	2.9	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.09#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.23#
6 TMP Vinyl chloride	0.020	0.022	-10.0	91	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.54#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.61#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.77#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.40#
11 TMP Acetone	-1.000	0.000	0.0	0	-2.27#
12 TMP 1,1-Dichloroethene	0.020	0.020	0.0	102	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.06#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.020	0.017	15.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.020	0.017	15.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP 1,1-Dichloroethane	0.020	0.018	10.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.67#
22 TMP cis-1,2-Dichloroethene	0.020	0.019	5.0	100	0.00
23 TMP Chloroform	-1.000	0.000	0.0	0	-3.94#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.71#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.50#
26 TMP 1,2-Dichloroethane (EDC)	0.020	0.020	0.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.020	0.023	-15.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.22#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S 1,2-Dichloroethane-d4	10.000	10.135	-1.3	100	0.00
31 TMP Benzene	0.020	0.021	-5.0	100	0.00
32 TMP Trichloroethene	0.020	0.020	0.0	100	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.13#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S Toluene-d8	10.000	10.026	-0.3	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.23#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.020	0.023	-15.0	106	0.00
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.25#
42 TMP 1,1,2-Trichloroethane	-1.000	0.000	0.0	0	-6.40#
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.020	0.022	-10.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.020	0.017	15.0	93	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP Ethylbenzene	0.020	0.015	25.0#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.040	0.040	0.0	100	0.00
52 TMP o-Xylene	0.020	0.020	0.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-7.90#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.07#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.079	-0.8	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.62#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.51#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.57#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.70#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.81#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.10#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.31#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.42#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.50#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-9.87#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.64#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.44#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.61#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.92#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.256	3.0	100	0.00
4 TMP	Dichlorodifluoromethane	0.712	0.000#	100.0#	0#	-1.09#
5 TMP	Chloromethane	0.951	0.000#	100.0#	0#	-1.23#
6 TMP	Vinyl chloride	0.862	1.903	-120.8#	91	0.00
7 TMP	Bromomethane	0.441	0.000#	100.0#	0#	-1.54#
8 TMP	Chloroethane	0.369	0.000#	100.0#	0#	-1.61#
9 TMP	Trichlorofluoromethane	0.899	0.000#	100.0#	0#	-1.77#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-2.40#
11 TMP	Acetone	0.031	0.000#	100.0#	0#	-2.27#
12 TMP	1,1-Dichloroethene	0.271	0.484	-78.6#	102	0.00
13 TMP	Hexane	0.469	0.000#	100.0#	0#	-3.06#
14 TMP	Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP	t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.74#
16 TMP	Methyl t-butyl ether (MTBE)	0.812	1.329	-63.7#	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.314	0.676	-115.3#	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.953	0.000#	100.0#	0#	-3.24#
19 TMP	1,1-Dichloroethane	0.547	0.923	-68.7#	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.307	0.000#	100.0#	0#	-3.55#
21 TMP	2,2-Dichloropropane	0.347	0.000#	100.0#	0#	-3.67#
22 TMP	cis-1,2-Dichloroethene	0.329	0.631	-91.8#	100	0.00
23 TMP	Chloroform	0.477	0.000#	100.0#	0#	-3.94#
24 TMP	2-Butanone (MEK)	0.184	0.000#	100.0#	0#	-3.71#
25 TMP	t-Amyl methyl ether (TAME)	0.739	0.000#	100.0#	0#	-4.50#
26 TMP	1,2-Dichloroethane (EDC)	0.479	1.205	-151.6#	100	0.00
27 TMP	1,1,1-Trichloroethane	0.494	0.822	-66.4#	100	0.00
28 TMP	1,1-Dichloropropene	0.368	0.000#	100.0#	0#	-4.22#
29 TMP	Carbon tetrachloride	0.396	0.000#	100.0#	0#	-4.21#
30 S	1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP	Benzene	1.103	1.993	-80.7#	100	0.00
32 TMP	Trichloroethene	0.368	0.799	-117.1#	100	0.00
33 TMP	1,2-Dichloropropane	0.315	0.000#	100.0#	0#	-5.13#
34 TMP	Bromodichloromethane	0.375	0.000#	100.0#	0#	-5.37#
35 S	Toluene-d8	0.975	0.978	-0.3	100	0.00
36 TMP	Dibromomethane	0.181	0.000#	100.0#	0#	-5.23#
37 TMP	4-Methyl-2-pentanone	0.054	0.000#	100.0#	0#	-5.91#
38 TMP	cis-1,3-Dichloropropene	0.443	0.000#	100.0#	0#	-5.75#
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.986	2.162	-119.3#	106	0.00
41 TMP	trans-1,3-Dichloropropene	0.508	0.000#	100.0#	0#	-6.25#
42 TMP	1,1,2-Trichloroethane	0.285	0.000#	100.0#	0#	-6.40#
43 TMP	2-Hexanone	0.312	0.000#	100.0#	0#	-6.64#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.420	1.223	-191.2#	100	0.00
46 TMP Dibromochloromethane	0.366	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.811	-114.0#	93	0.00
48 TMP Chlorobenzene	0.957	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.885	3.911	-107.5#	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.705	1.501	-112.9#	100	0.00
52 TMP o-Xylene	0.683	1.380	-102.0#	100	0.00
53 TMP Styrene	1.004	0.000#	100.0#	0#	-7.90#
54 TMP Isopropylbenzene	1.606	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.269	0.000#	100.0#	0#	-8.07#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.871	-0.8	100	0.00
58 TMP n-Propylbenzene	3.386	0.000#	100.0#	0#	-8.62#
59 TMP Bromobenzene	0.790	0.000#	100.0#	0#	-8.51#
60 TMP 1,3,5-Trimethylbenzene	2.482	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.599	0.000#	100.0#	0#	-8.57#
63 TMP 2-Chlorotoluene	2.054	0.000#	100.0#	0#	-8.70#
64 TMP 4-Chlorotoluene	2.355	0.000#	100.0#	0#	-8.81#
65 TMP tert-Butylbenzene	2.194	0.000#	100.0#	0#	-9.10#
66 TMP 1,2,4-Trimethylbenzene	2.575	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	3.160	0.000#	100.0#	0#	-9.31#
68 TMP p-Isopropyltoluene	2.706	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.469	0.000#	100.0#	0#	-9.42#
70 TMP 1,4-Dichlorobenzene	1.498	0.000#	100.0#	0#	-9.50#
71 TMP 1,2-Dichlorobenzene	1.361	0.000#	100.0#	0#	-9.87#
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.000#	100.0#	0#	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.978	0.000#	100.0#	0#	-11.44#
74 TMP Hexachlorobutadiene	0.516	0.000#	100.0#	0#	-11.61#
75 TMP Naphthalene	2.401	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.885	0.000#	100.0#	0#	-11.92#

(#) = Out of Range

SPCC's out = 52 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	44408	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35154	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19419	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11367	9.712	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.10%
30) 1,2-Dichloroethane-d4	4.36	102	2683	10.135	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	101.30%
35) Toluene-d8	5.98	98	43431	10.026	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	100.30%
57) 4-Bromofluorobenzene	8.38	95	16912	10.079	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	0.00		0	N.D.	d	
5) Chloromethane	0.00		0	N.D.	d	
6] Vinyl chloride	1.30	62	169m	0.022	ppb	
7) Bromomethane	0.00		0	N.D.		
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.	d	
10) 2-Propanol	0.00		0	N.D.	d	
11) Acetone	0.00		0	N.D.	d	
12] 1,1-Dichloroethene	2.19	96	43m	0.020	ppb	
13) Hexane	0.00		0	N.D.	d	
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16] Methyl t-butyl ether (...)	2.85	73	118m	0.017	ppb	
17] trans-1,2-Dichloroethene	2.83	96	60	0.017	ppb	87
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d	
19] 1,1-Dichloroethane	3.18	63	82	0.018	ppb	97
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	0.00		0	N.D.	d	
22] cis-1,2-Dichloroethene	3.67	96	56	0.019	ppb	90
23) Chloroform	0.00		0	N.D.	d	
24) 2-Butanone (MEK)	0.00		0	N.D.	d	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d	
26] 1,2-Dichloroethane (EDC)	4.42	62	107	0.020	ppb	96
27] 1,1,1-Trichloroethane	4.08	97	73	0.023	ppb	93
28) 1,1-Dichloropropene	0.00		0	N.D.	d	
29) Carbon tetrachloride	0.00		0	N.D.		
31] Benzene	4.39	78	177	0.021	ppb	96
32] Trichloroethene	4.93	95	71	0.020	ppb	91
33) 1,2-Dichloropropane	0.00		0	N.D.	d	
34) Bromodichloromethane	0.00		0	N.D.	d	
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

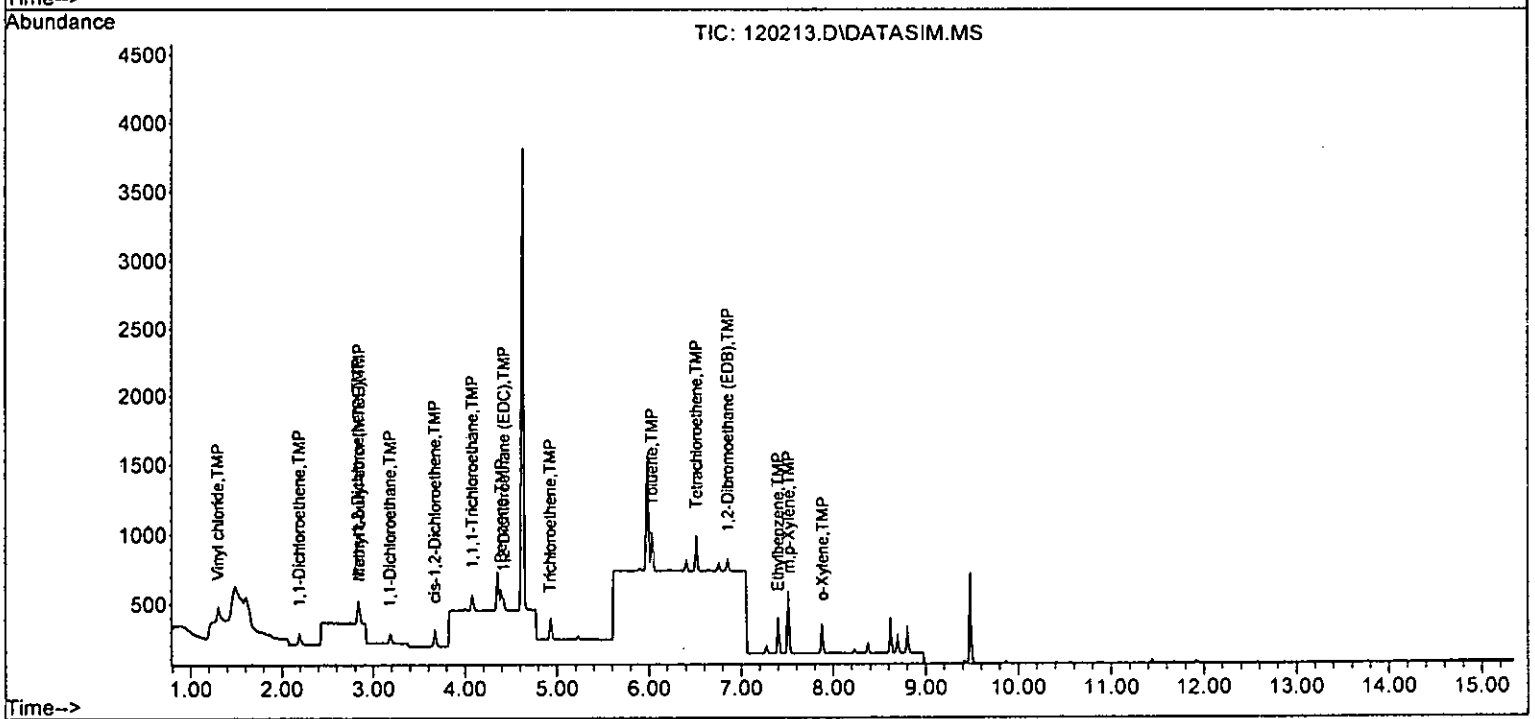
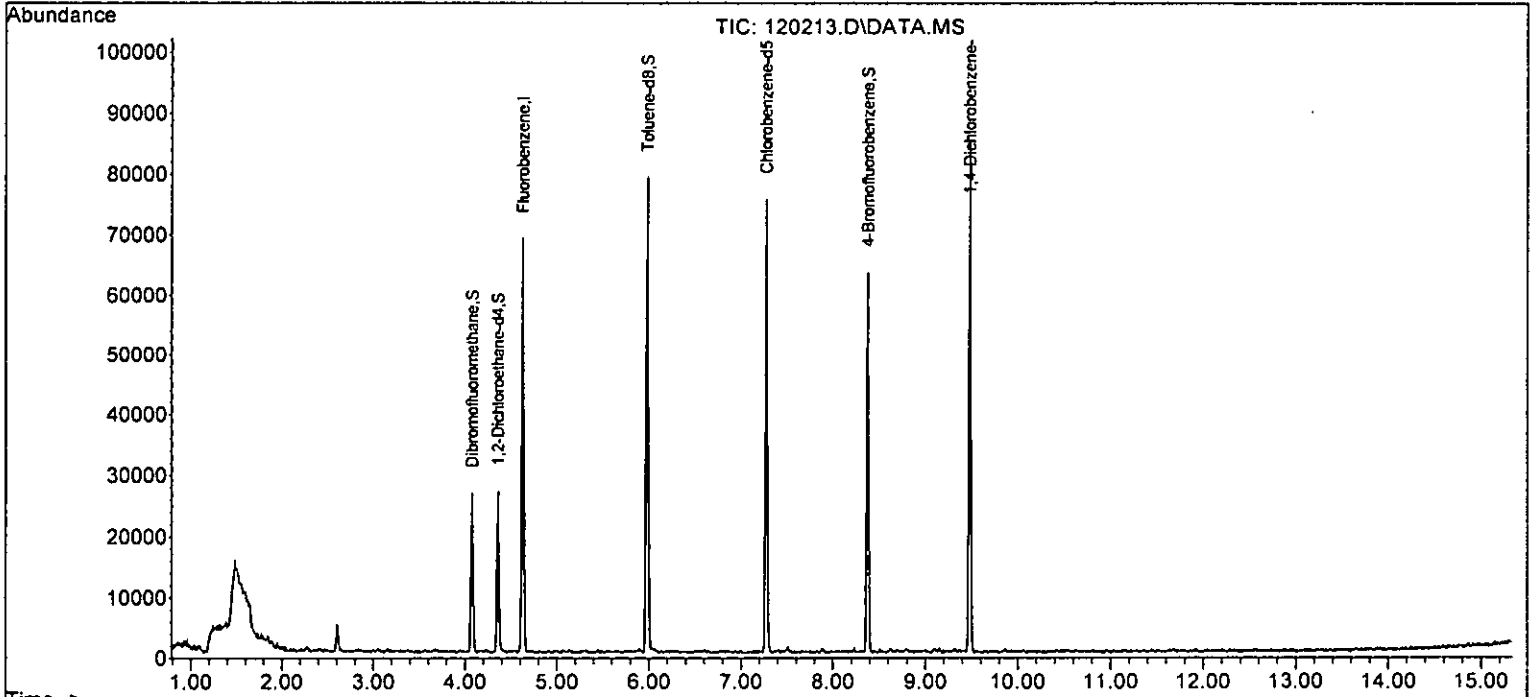
Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.03	92	152	0.023	ppb	98
41) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
42) 1,1,2-Trichloroethane	0.00		0	N.D.		
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.		
45] Tetrachloroethene	6.51	164	86	0.022	ppb	95
46) Dibromochloromethane	0.00		0	N.D.		
47] 1,2-Dibromoethane (EDB)	6.85	107	57m	0.017	ppb	
48) Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.40	91	275	0.015	ppb	97
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51] m,p-Xylene	7.52	106	211	0.040	ppb	# 72
52] o-Xylene	7.88	106	97	0.020	ppb	100
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	0.00		0	N.D.	d	
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	0.00		0	N.D.	d	
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	0.00		0	N.D.	d	
64) 4-Chlorotoluene	0.00		0	N.D.	d	
65) tert-Butylbenzene	0.00		0	N.D.	d	
66) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67) sec-Butylbenzene	0.00		0	N.D.	d	
68) p-Isopropyltoluene	0.00		0	N.D.	d	
69) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
70) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
74) Hexachlorobutadiene	0.00		0	N.D.	d	
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120213.D  
 Acq On : 02 Dec 2022 09:20 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-4F  
 Misc : soil/water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

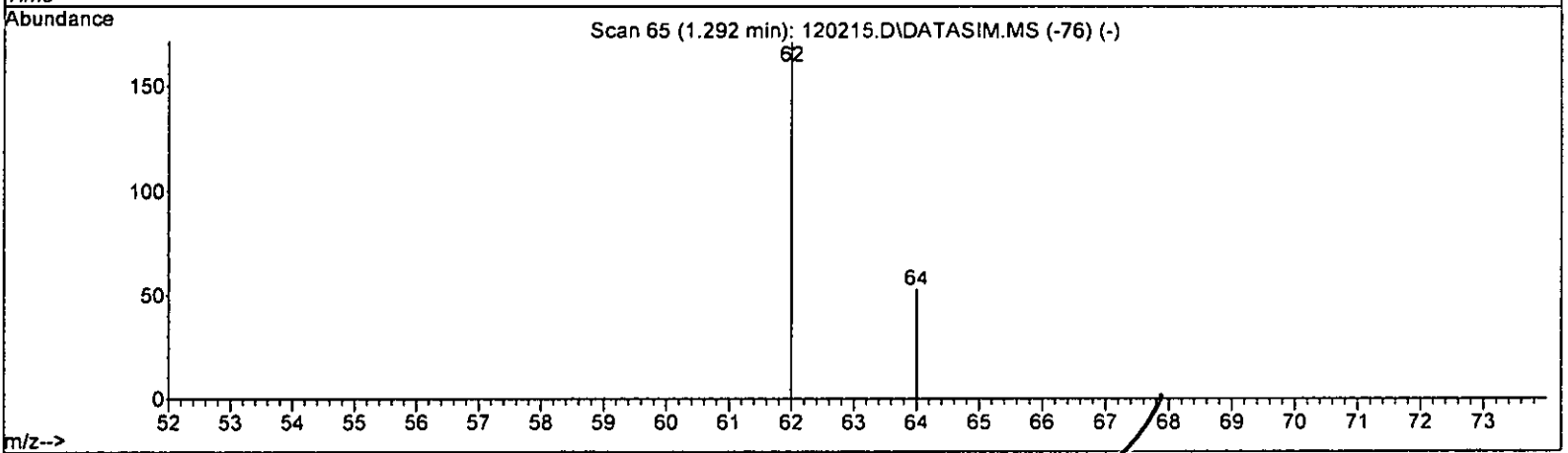
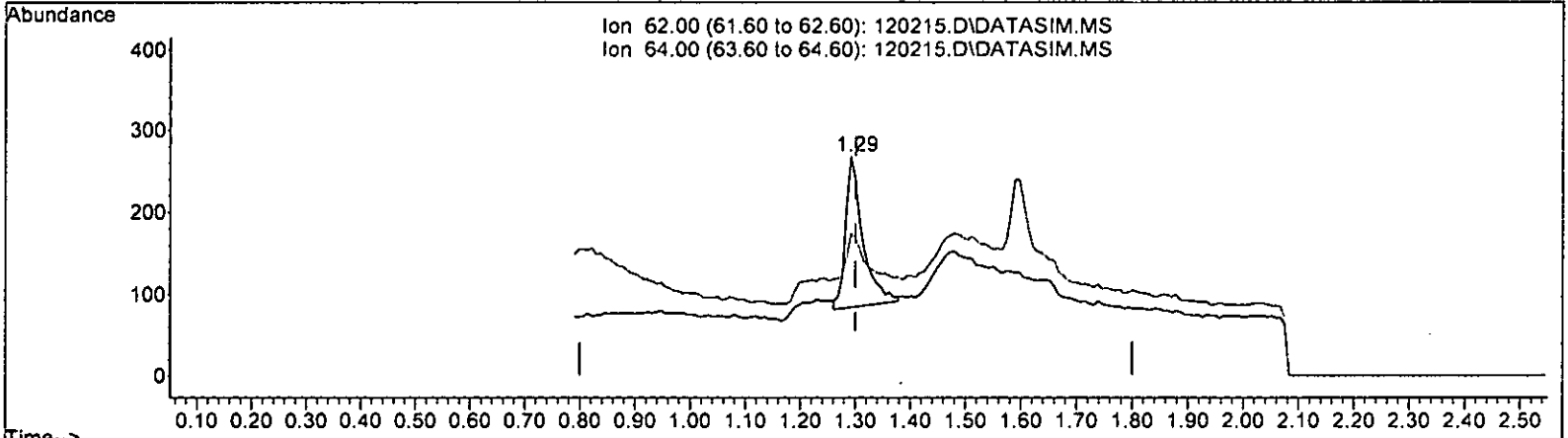
Quant Time: Dec 05 12:39:39 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(6) Vinyl chloride (TMP)

1.292min (-0.008) 0.090 ppb

response 404

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	31.64
0.00	0.00	0.00
0.00	0.00	0.00

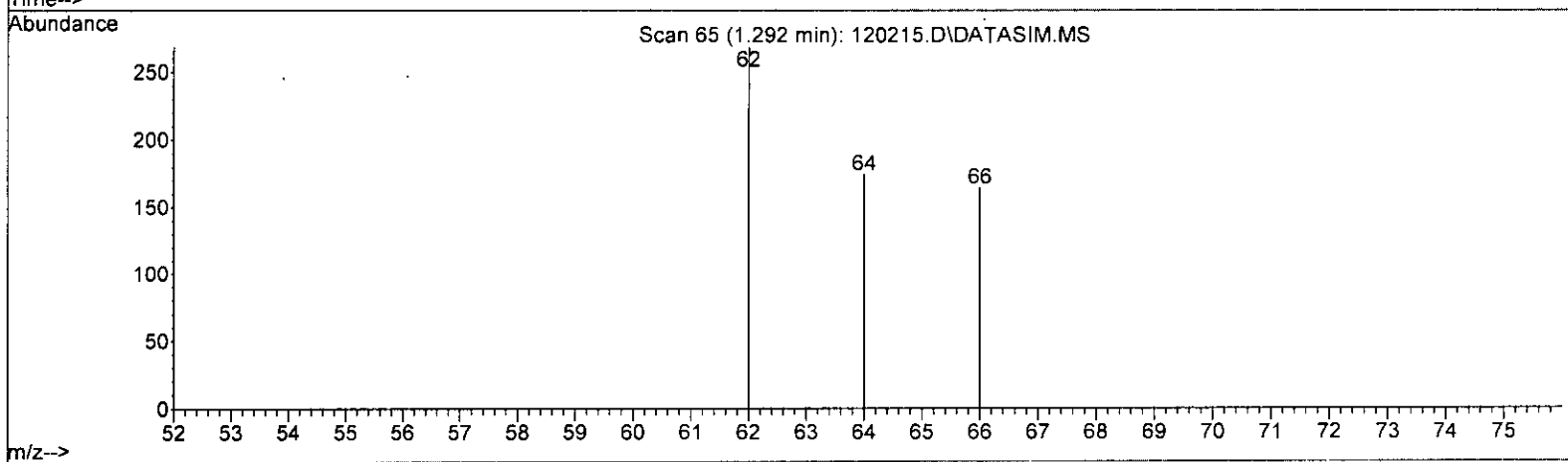
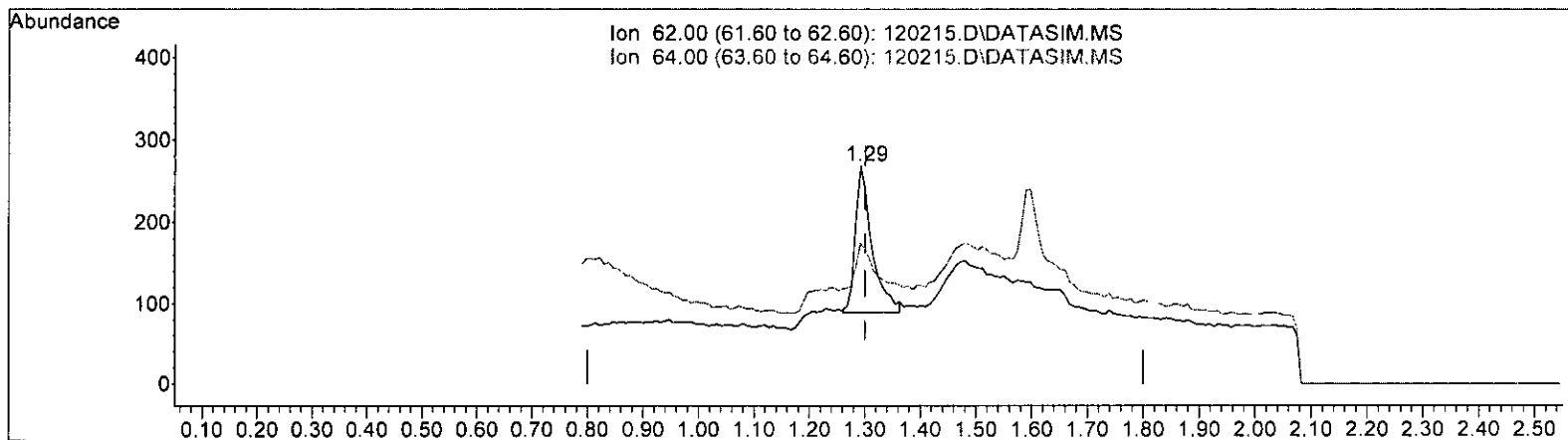
*LM 12.5*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 120215.D\DATA.MS

(6) Vinyl chloride (TMP)

1.292min (-0.008) 0.082 ppb m

response 376

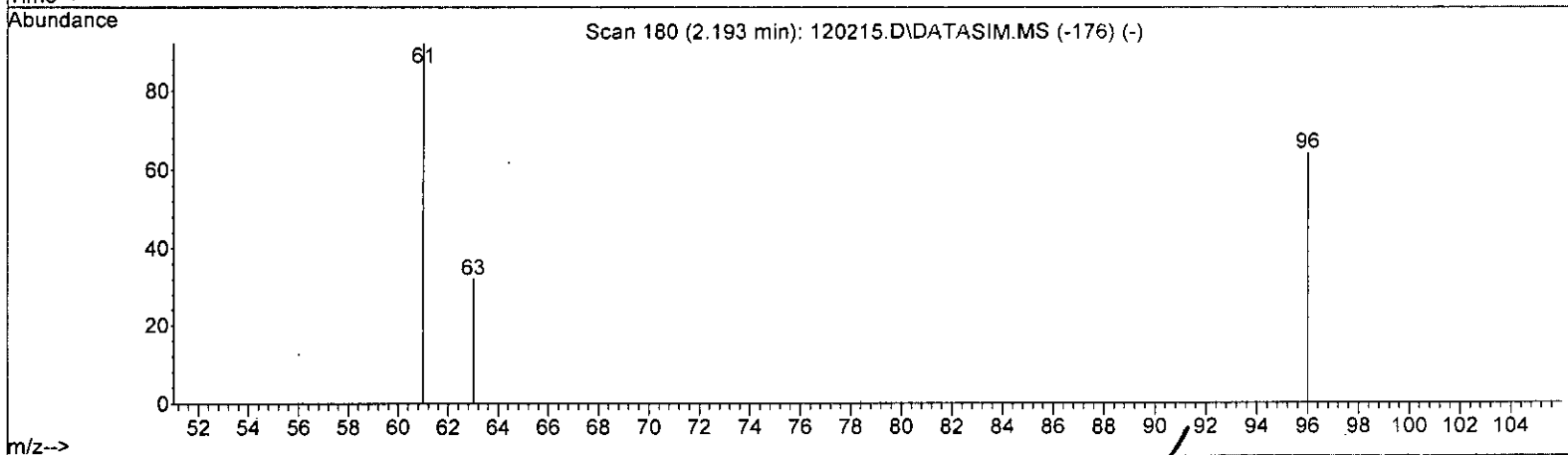
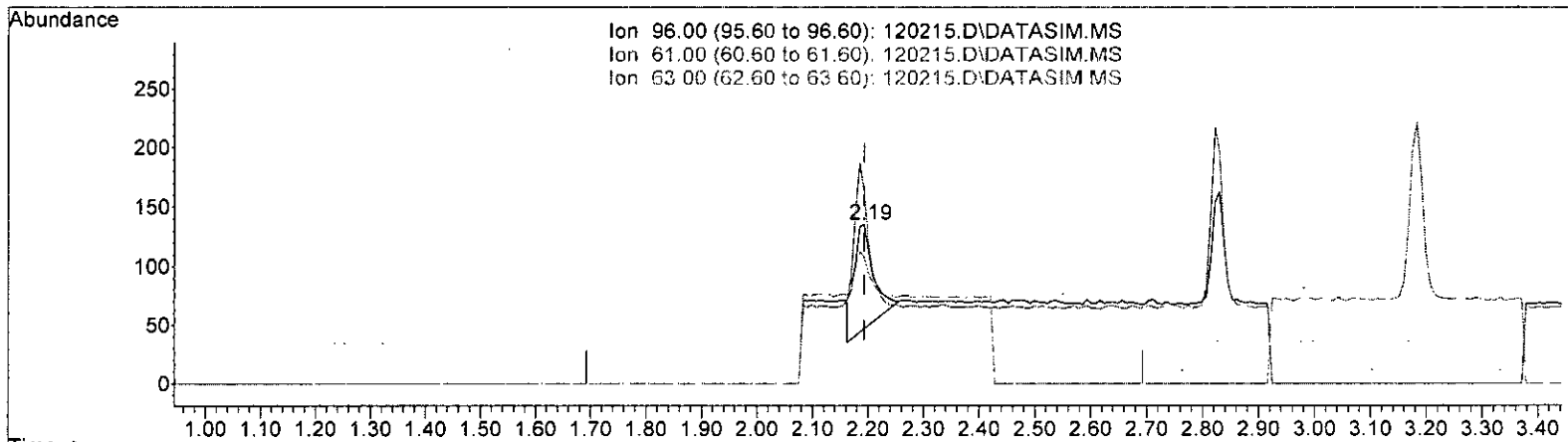
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	64.93#
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 0.178 ppb

response 220

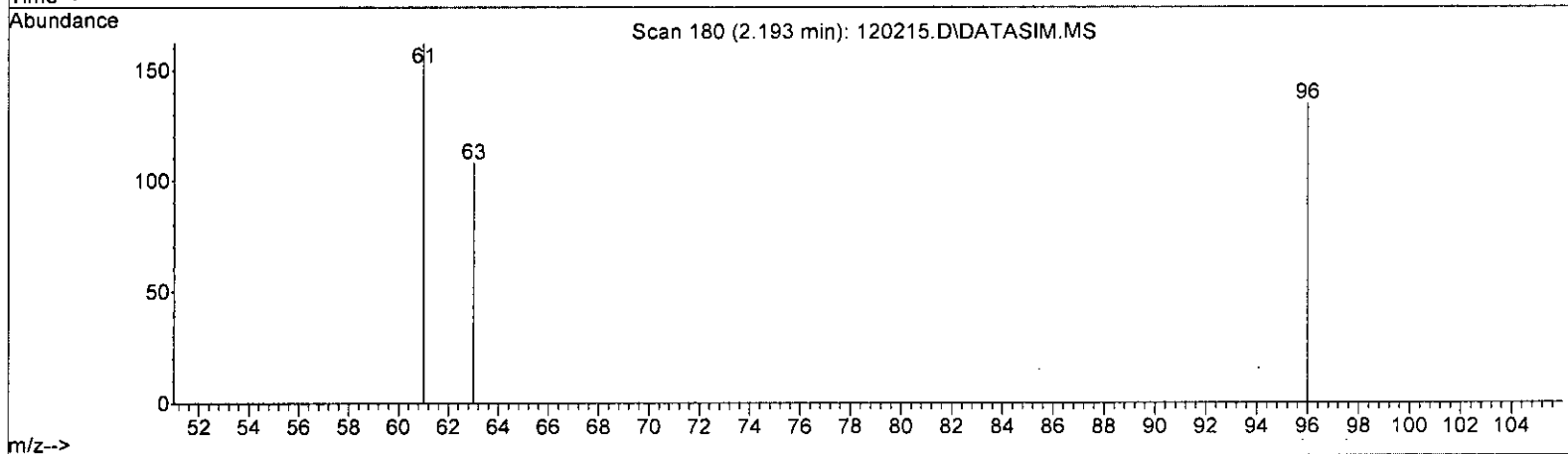
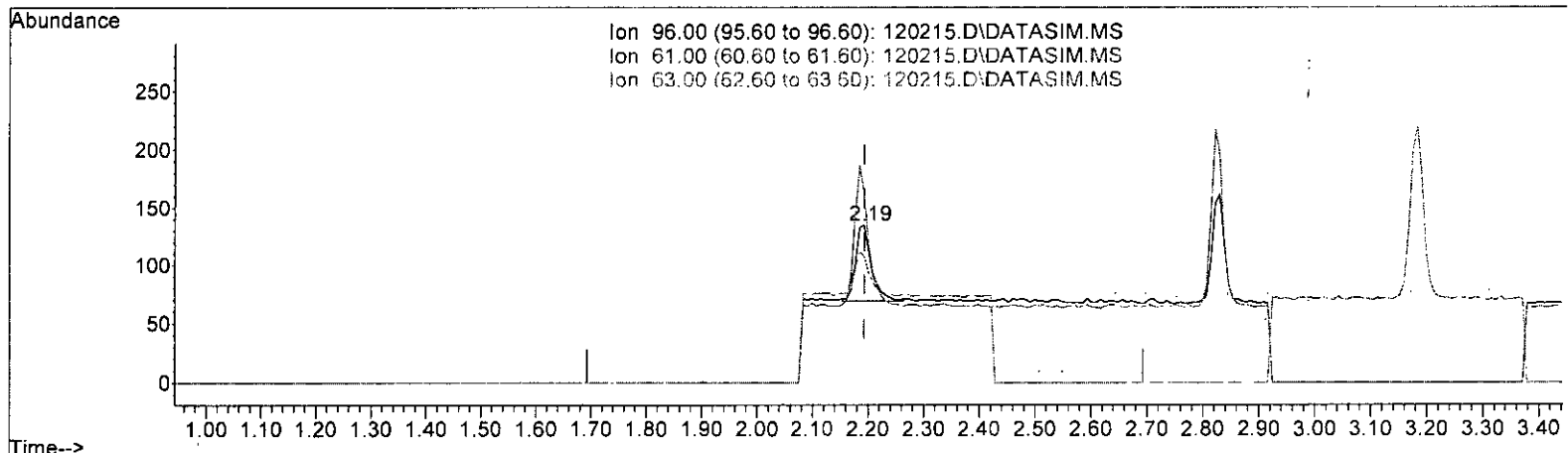
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	147.69
63.00	55.30	52.31
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(12) 1,1-Dichloroethene (TMP) *M 12.5*

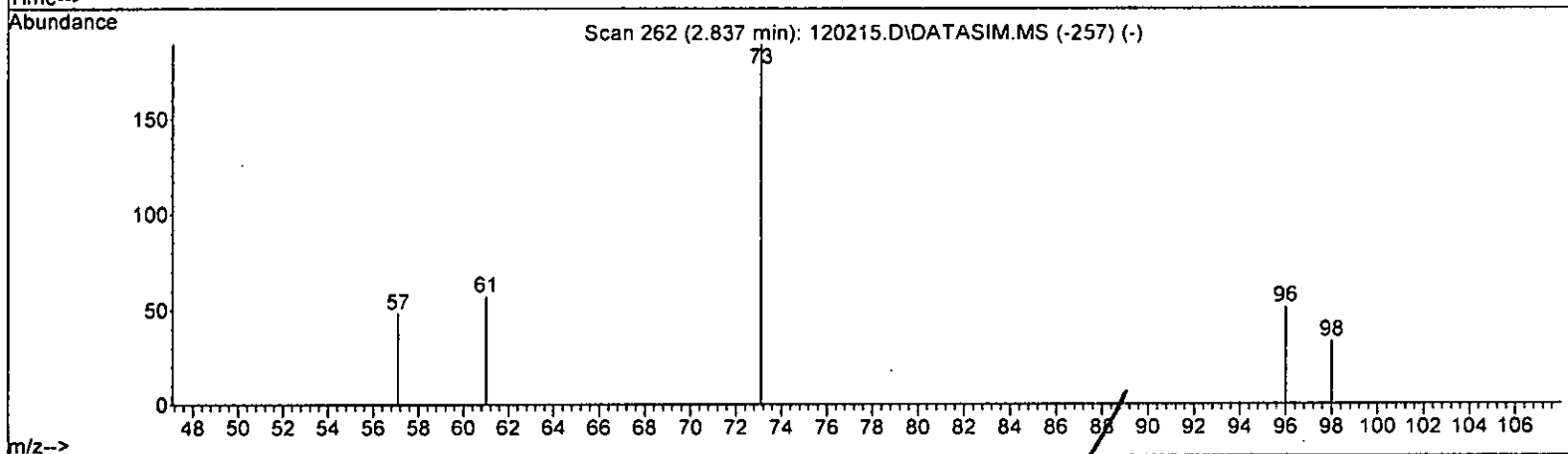
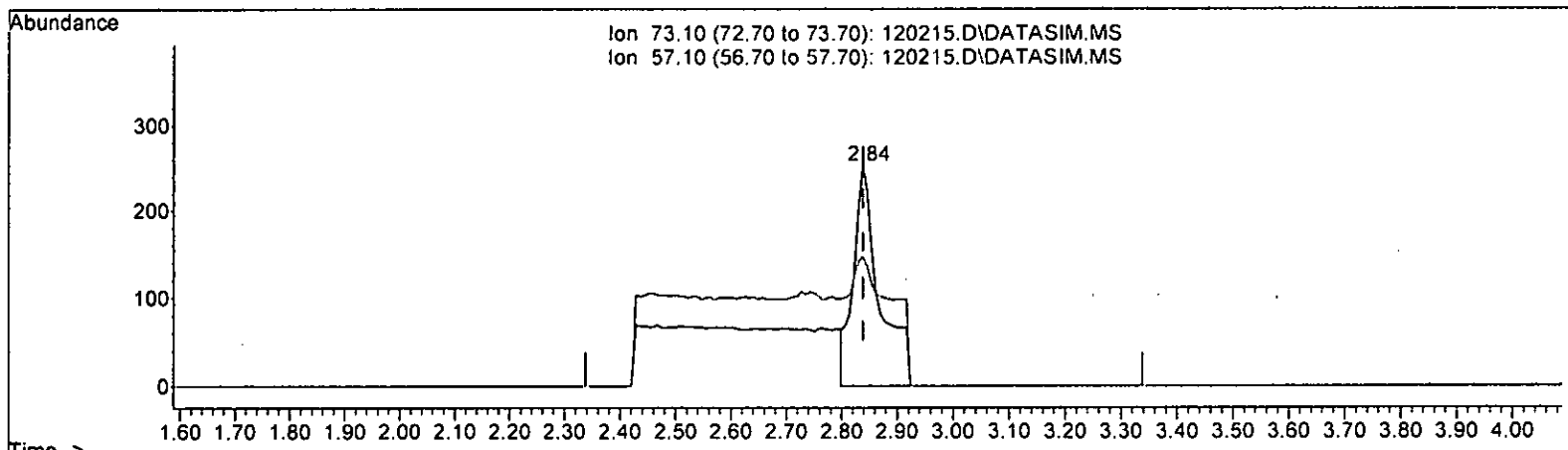
2.193min (-0.000) 0.097 ppb m

response	129	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	120.00
63.00	55.30	80.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 0.222 ppb

response 806

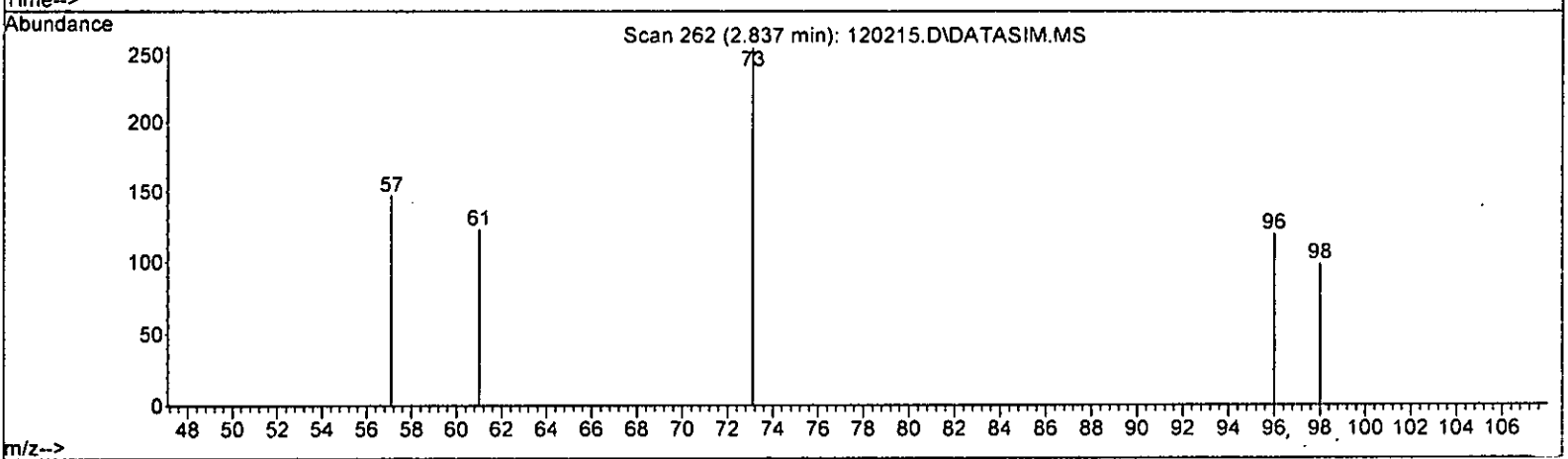
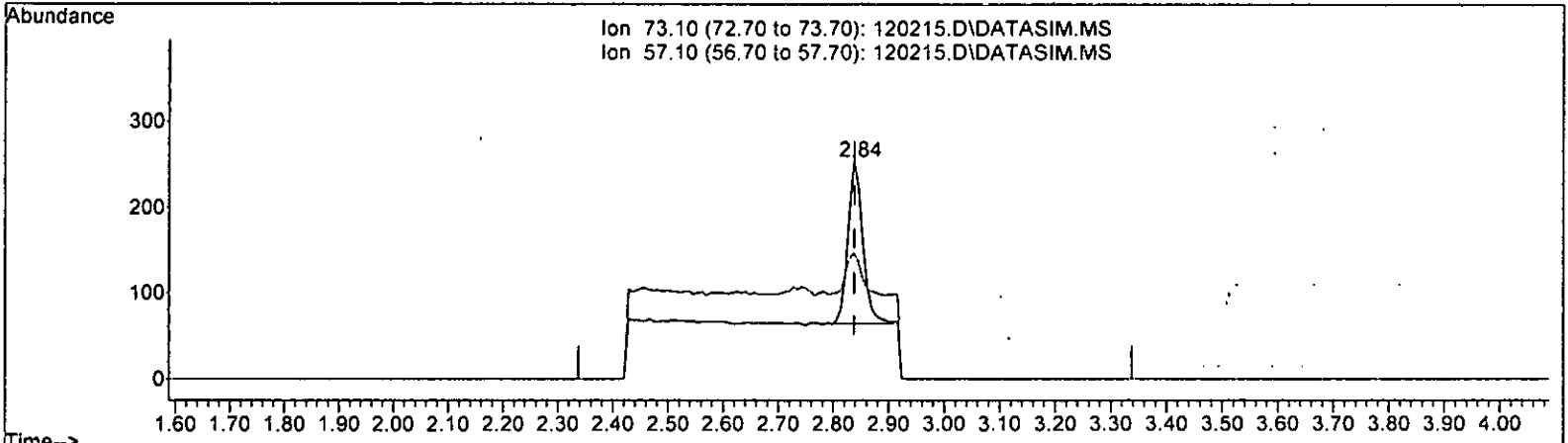
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	58.10#
0.00	0.00	0.00
0.00	0.00	0.00

*u 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

M 12.5

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 0.086 ppb m

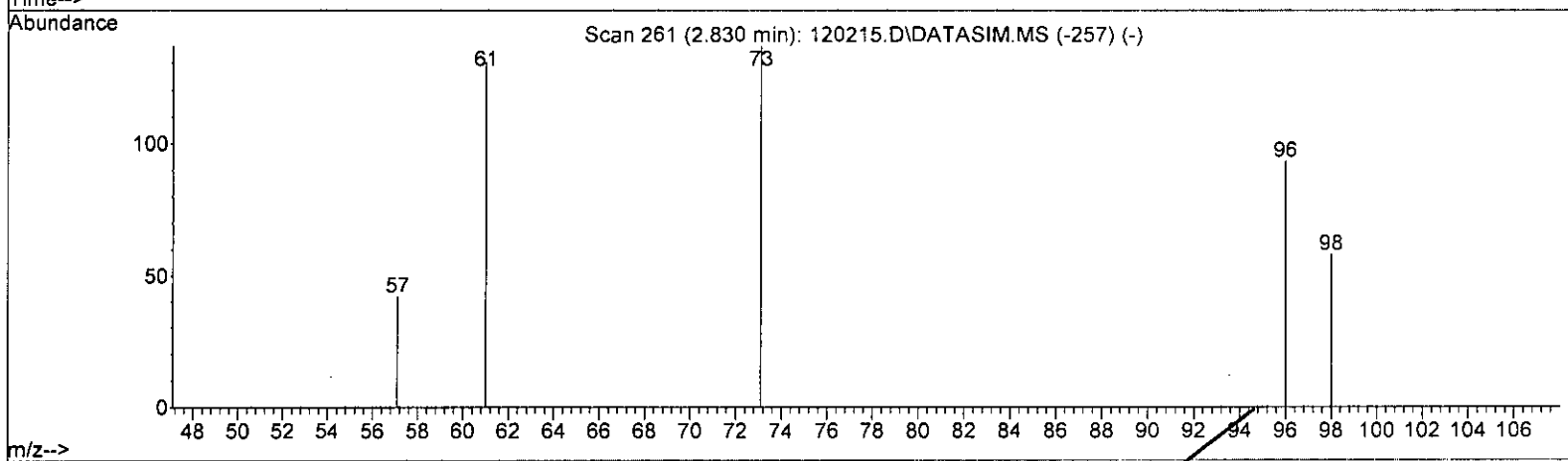
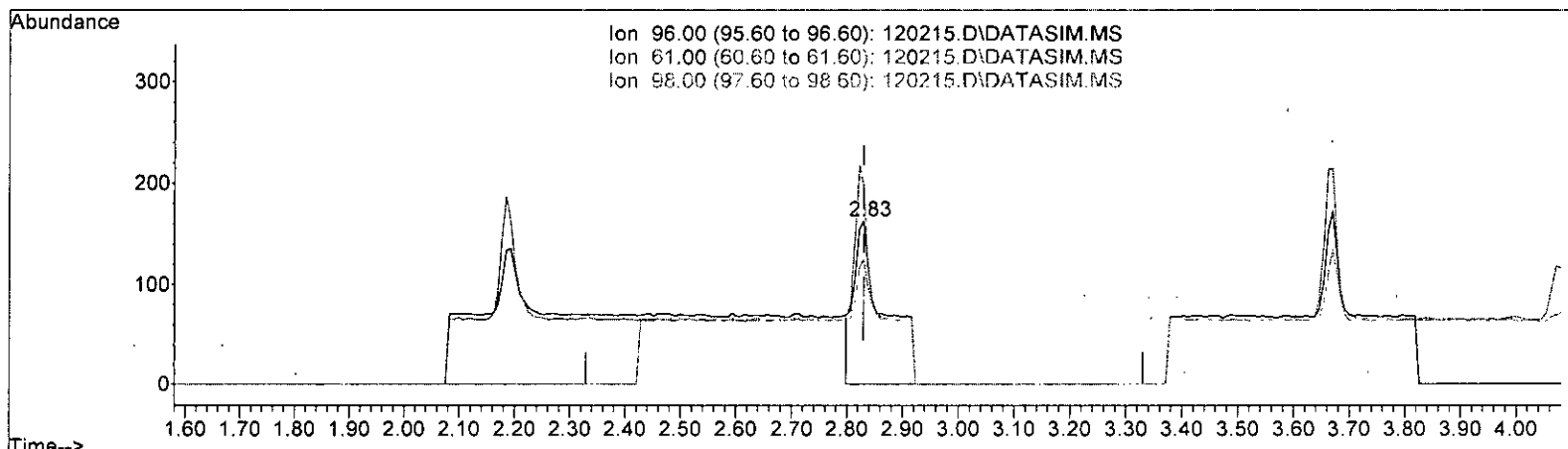
response 351

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	58.10#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 0.481 ppb

response 621

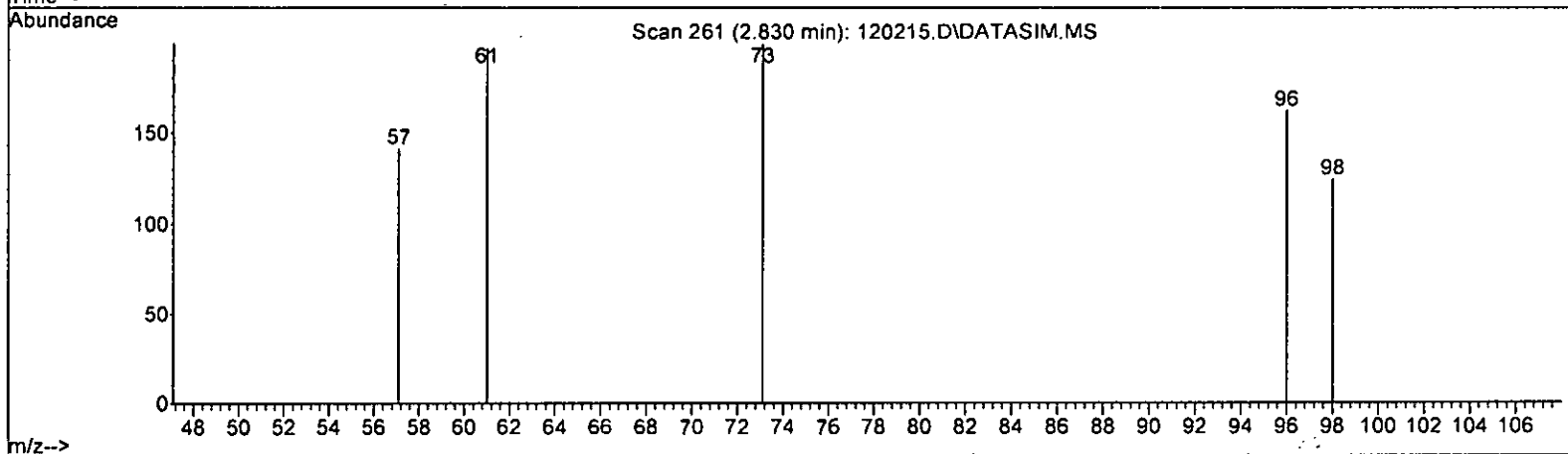
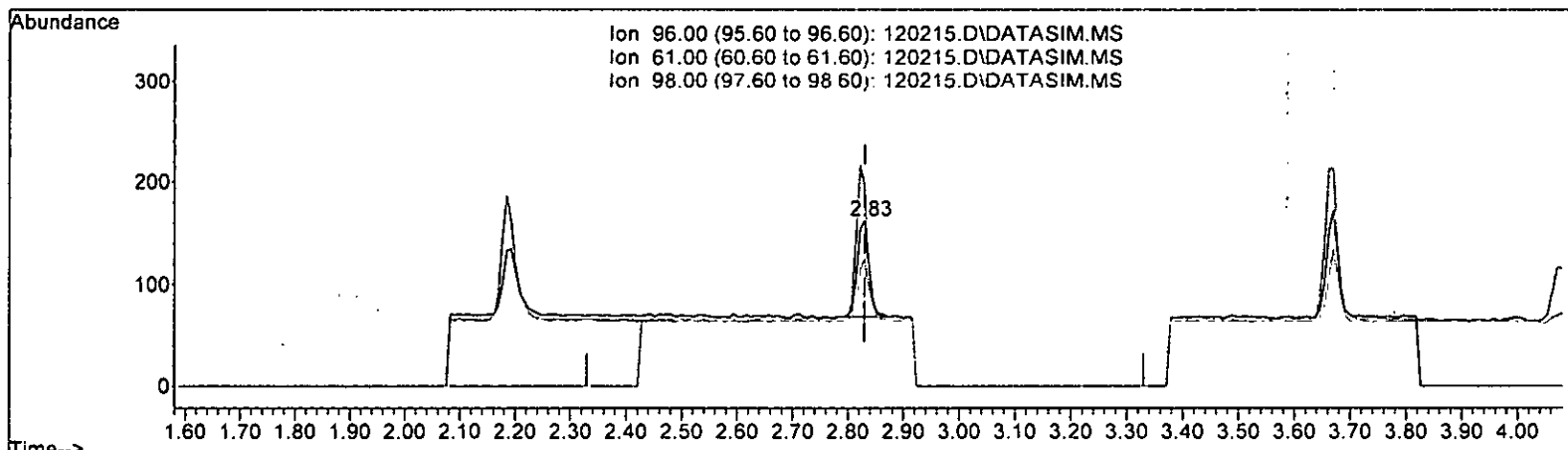
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	120.99
98.00	68.00	76.54
0.00	0.00	0.00

*m*  
*12.9*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120215.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 0.083 ppb m

response 141

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	120.99
98.00	68.00	76.54
0.00	0.00	0.00

*W*  
*128*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.217	-2.2	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.09#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.23#
6 TMP Vinyl chloride	0.100	0.082	18.0	101	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.54#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.61#
9 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.77#
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.40#
11 TMP Acetone	-1.000	0.000	0.0	0	-2.27#
12 TMP 1,1-Dichloroethene	0.100	0.097	3.0	97	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.06#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.100	0.086	14.0	98	0.00
17 TMP trans-1,2-Dichloroethene	0.100	0.083	17.0	87	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP 1,1-Dichloroethane	0.100	0.090	10.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.67#
22 TMP cis-1,2-Dichloroethene	0.100	0.093	7.0	100	0.00
23 TMP Chloroform	-1.000	0.000	0.0	0	-3.94#
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.71#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.50#
26 TMP 1,2-Dichloroethane (EDC)	0.100	0.090	10.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.100	0.091	9.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.22#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S 1,2-Dichloroethane-d4	10.000	9.905	1.0	100	0.00
31 TMP Benzene	0.100	0.091	9.0	100	0.00
32 TMP Trichloroethene	0.100	0.092	8.0	100	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.13#
34 TMP Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S Toluene-d8	10.000	9.912	0.9	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.23#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.100	0.095	5.0	100	0.00
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.25#
42 TMP 1,1,2-Trichloroethane	0.100	0.105	-5.0	100	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.100	0.093	7.0	100	0.00
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.100	0.093	7.0	100	0.00
48 TMP Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP Ethylbenzene	0.100	0.091	9.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.200	0.190	5.0	100	0.00
52 TMP o-Xylene	0.100	0.094	6.0	100	0.00
53 TMP Styrene	-1.000	0.000	0.0	0	-7.90#
54 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.07#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	10.000	10.029	-0.3	100	0.00
58 TMP n-Propylbenzene	-1.000	0.000	0.0	0	-8.62#
59 TMP Bromobenzene	-1.000	0.000	0.0	0	-8.51#
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.000	0.0	0	-8.57#
63 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-8.70#
64 TMP 4-Chlorotoluene	-1.000	0.000	0.0	0	-8.81#
65 TMP tert-Butylbenzene	-1.000	0.000	0.0	0	-9.10#
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP sec-Butylbenzene	-1.000	0.000	0.0	0	-9.31#
68 TMP p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-9.42#
70 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-9.50#
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-9.87#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.64#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-11.44#
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.61#
75 TMP Naphthalene	0.100	0.138	-38.0#	100	0.00
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.92#

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.269	-1.9	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.000#	100.0#	0#	-1.09#
5 TMP Chloromethane	0.951	0.000#	100.0#	0#	-1.23#
6 TMP Vinyl chloride	0.862	0.831	3.6	101	0.00
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	-1.54#
8 TMP Chloroethane	0.369	0.000#	100.0#	0#	-1.61#
9 TMP Trichlorofluoromethane	0.899	0.000#	100.0#	0#	-1.77#
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.40#
11 TMP Acetone	0.031	0.000#	100.0#	0#	-2.27#
12 TMP 1,1-Dichloroethene	0.271	0.285	-5.2	97	0.00
13 TMP Hexane	0.469	0.000#	100.0#	0#	-3.06#
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.776	4.4	98	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.312	0.6	87	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.000#	100.0#	0#	-3.24#
19 TMP 1,1-Dichloroethane	0.547	0.541	1.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.000#	100.0#	0#	-3.55#
21 TMP 2,2-Dichloropropane	0.347	0.000#	100.0#	0#	-3.67#
22 TMP cis-1,2-Dichloroethene	0.329	0.343	-4.3	100	0.00
23 TMP Chloroform	0.477	0.000#	100.0#	0#	-3.94#
24 TMP 2-Butanone (MEK)	0.184	0.000#	100.0#	0#	-3.71#
25 TMP t-Amyl methyl ether (TAME)	0.739	0.000#	100.0#	0#	-4.50#
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.515	-7.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.480	2.8	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.000#	100.0#	0#	-4.22#
29 TMP Carbon tetrachloride	0.396	0.000#	100.0#	0#	-4.21#
30 S 1,2-Dichloroethane-d4	0.060	0.059	1.7	100	0.00
31 TMP Benzene	1.103	1.100	0.3	100	0.00
32 TMP Trichloroethene	0.368	0.389	-5.7	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.000#	100.0#	0#	-5.13#
34 TMP Bromodichloromethane	0.375	0.000#	100.0#	0#	-5.37#
35 S Toluene-d8	0.975	0.967	0.8	100	0.00
36 TMP Dibromomethane	0.181	0.000#	100.0#	0#	-5.23#
37 TMP 4-Methyl-2-pentanone	0.054	0.000#	100.0#	0#	-5.91#
38 TMP cis-1,3-Dichloropropene	0.443	0.000#	100.0#	0#	-5.75#
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	1.057	-7.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.000#	100.0#	0#	-6.25#
42 TMP 1,1,2-Trichloroethane	0.285	0.352	-23.5#	100	0.00
43 TMP 2-Hexanone	0.312	0.000#	100.0#	0#	-6.64#

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.420	0.481	-14.5	100	0.00
46 TMP Dibromochloromethane	0.366	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.407	-7.4	100	0.00
48 TMP Chlorobenzene	0.957	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.885	2.005	-6.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.705	0.757	-7.4	100	0.00
52 TMP o-Xylene	0.683	0.722	-5.7	100	0.00
53 TMP Styrene	1.004	0.000#	100.0#	0#	-7.90#
54 TMP Isopropylbenzene	1.606	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.269	0.000#	100.0#	0#	-8.07#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.867	-0.3	100	0.00
58 TMP n-Propylbenzene	3.386	0.000#	100.0#	0#	-8.62#
59 TMP Bromobenzene	0.790	0.000#	100.0#	0#	-8.51#
60 TMP 1,3,5-Trimethylbenzene	2.482	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.599	0.000#	100.0#	0#	-8.57#
63 TMP 2-Chlorotoluene	2.054	0.000#	100.0#	0#	-8.70#
64 TMP 4-Chlorotoluene	2.355	0.000#	100.0#	0#	-8.81#
65 TMP tert-Butylbenzene	2.194	0.000#	100.0#	0#	-9.10#
66 TMP 1,2,4-Trimethylbenzene	2.575	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	3.160	0.000#	100.0#	0#	-9.31#
68 TMP p-Isopropyltoluene	2.706	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.469	0.000#	100.0#	0#	-9.42#
70 TMP 1,4-Dichlorobenzene	1.498	0.000#	100.0#	0#	-9.50#
71 TMP 1,2-Dichlorobenzene	1.361	0.000#	100.0#	0#	-9.87#
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.000#	100.0#	0#	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.978	0.000#	100.0#	0#	-11.44#
74 TMP Hexachlorobutadiene	0.516	0.000#	100.0#	0#	-11.61#
75 TMP Naphthalene	2.401	3.313	-38.0#	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.000#	100.0#	0#	-11.92#

(#) = Out of Range

SPCC's out = 50 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	45253	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	34919	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19347	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12185	10.217	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.20%	
30) 1,2-Dichloroethane-d4	4.36	102	2672	9.905	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	99.00%	
35) Toluene-d8	5.98	98	43753	9.912	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	99.10%	
57) 4-Bromofluorobenzene	8.38	95	16765	10.029	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	100.30%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.29	62	376m	0.082	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	0.00		0	N.D.	d		
10) 2-Propanol	0.00		0	N.D.	d		
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.19	96	129m	0.097	ppb		
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.84	73	351m	0.086	ppb		
17] trans-1,2-Dichloroethene	2.83	96	141m	0.083	ppb		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.	d		
19] 1,1-Dichloroethane	3.18	63	245	0.090	ppb		99
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.	d		
21) 2,2-Dichloropropane	0.00		0	N.D.	d		
22] cis-1,2-Dichloroethene	3.67	96	155	0.093	ppb		95
23) Chloroform	0.00		0	N.D.	d		
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	0.00		0	N.D.	d		
26] 1,2-Dichloroethane (EDC)	4.41	62	233	0.090	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	217	0.091	ppb		98
28) 1,1-Dichloropropene	0.00		0	N.D.	d		
29) Carbon tetrachloride	0.00		0	N.D.	d		
31] Benzene	4.39	78	498	0.091	ppb		97
32] Trichloroethene	4.93	95	176	0.092	ppb		99
33) 1,2-Dichloropropane	0.00		0	N.D.	d		
34) Bromodichloromethane	0.00		0	N.D.	d		
36) Dibromomethane	0.00		0	N.D.	d		

Data Path : Y:\Proc\_GCM511\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

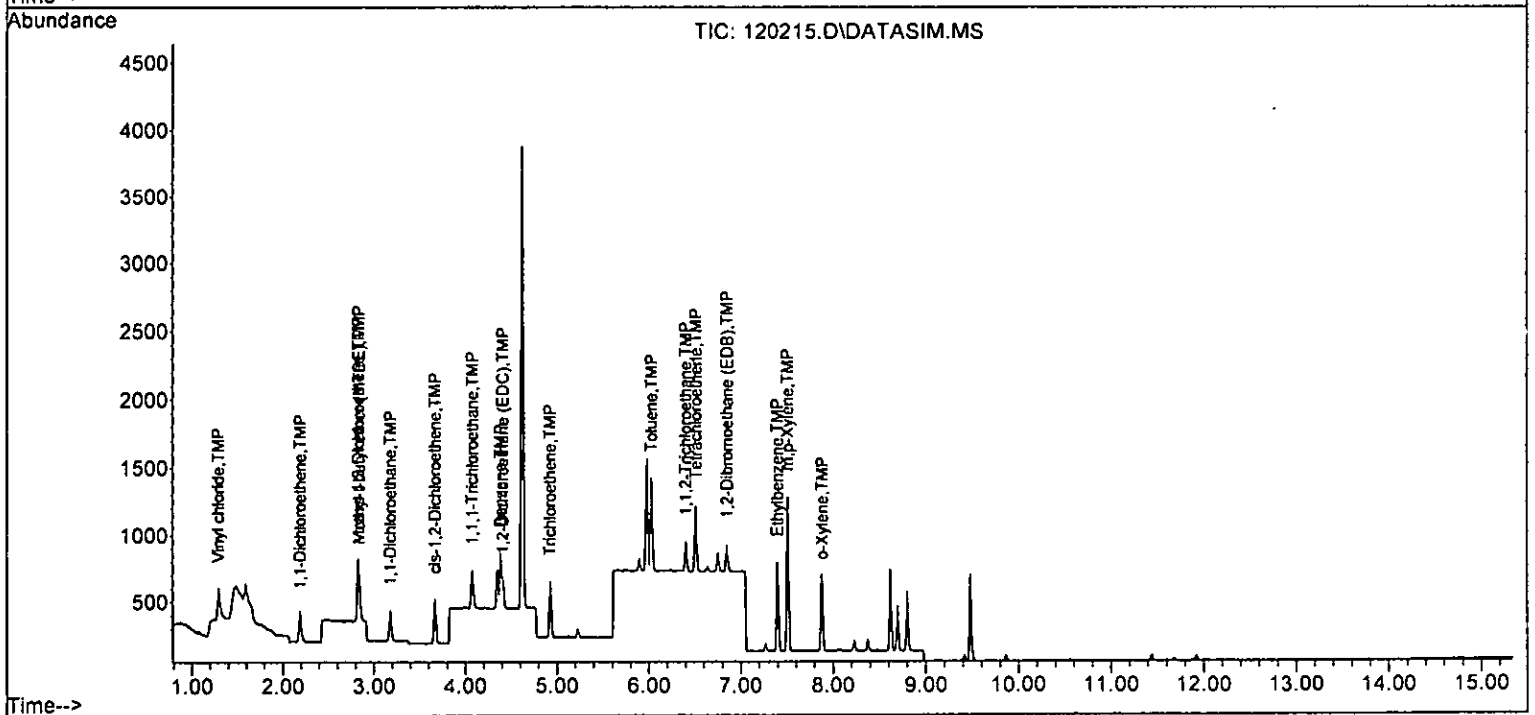
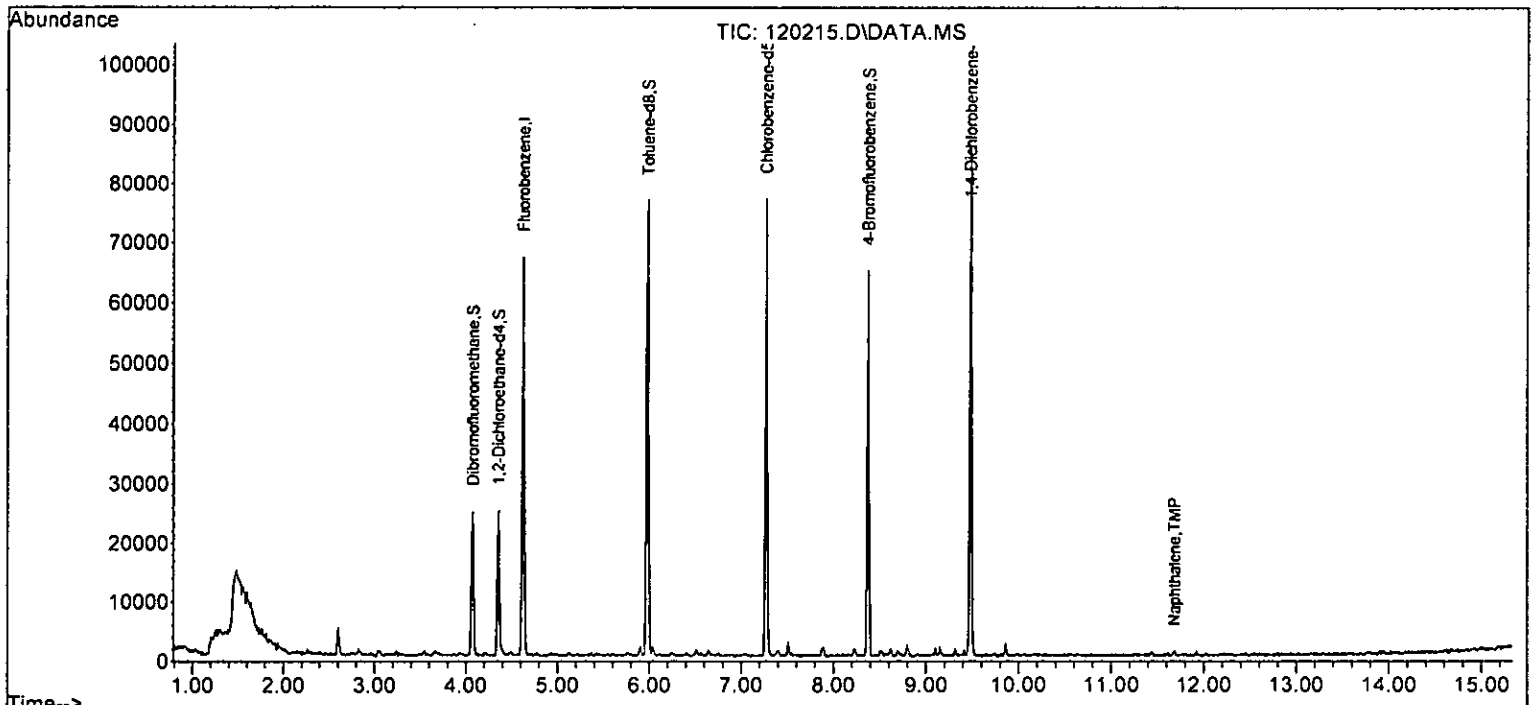
Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D. d	
40] Toluene	6.03	92	369	0.095	ppb	99
41) trans-1,3-Dichloropropene	0.00		0		N.D. d	
42] 1,1,2-Trichloroethane	6.40	83	123	0.105	ppb	100
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D. d	
45] Tetrachloroethene	6.51	164	168	0.093	ppb	98
46) Dibromochloromethane	0.00		0		N.D. d	
47] 1,2-Dibromoethane (EDB)	6.85	107	142	0.093	ppb	99
48) Chlorobenzene	0.00		0		N.D. d	
49] Ethylbenzene	7.40	91	700	0.091	ppb	100
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D. d	
51] m,p-Xylene	7.51	106	529	0.190	ppb	99
52] o-Xylene	7.88	106	252	0.094	ppb	99
53) Styrene	0.00		0		N.D. d	
54) Isopropylbenzene	0.00		0		N.D. d	
55) Bromoform	0.00		0		N.D. d	
58) n-Propylbenzene	0.00		0		N.D. d	
59) Bromobenzene	0.00		0		N.D. d	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D. d	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	0.00		0		N.D. d	
64) 4-Chlorotoluene	0.00		0		N.D. d	
65) tert-Butylbenzene	0.00		0		N.D. d	
66) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
67) sec-Butylbenzene	0.00		0		N.D. d	
68) p-Isopropyltoluene	0.00		0		N.D. d	
69) 1,3-Dichlorobenzene	0.00		0		N.D. d	
70) 1,4-Dichlorobenzene	0.00		0		N.D. d	
71) 1,2-Dichlorobenzene	0.00		0		N.D. d	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D. d	
74) Hexachlorobutadiene	0.00		0		N.D. d	
75) Naphthalene	11.68	128	641	0.138	ppb	84
76) 1,2,3-Trichlorobenzene	0.00		0		N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120215.D  
 Acq On : 02 Dec 2022 10:06 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-4H  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

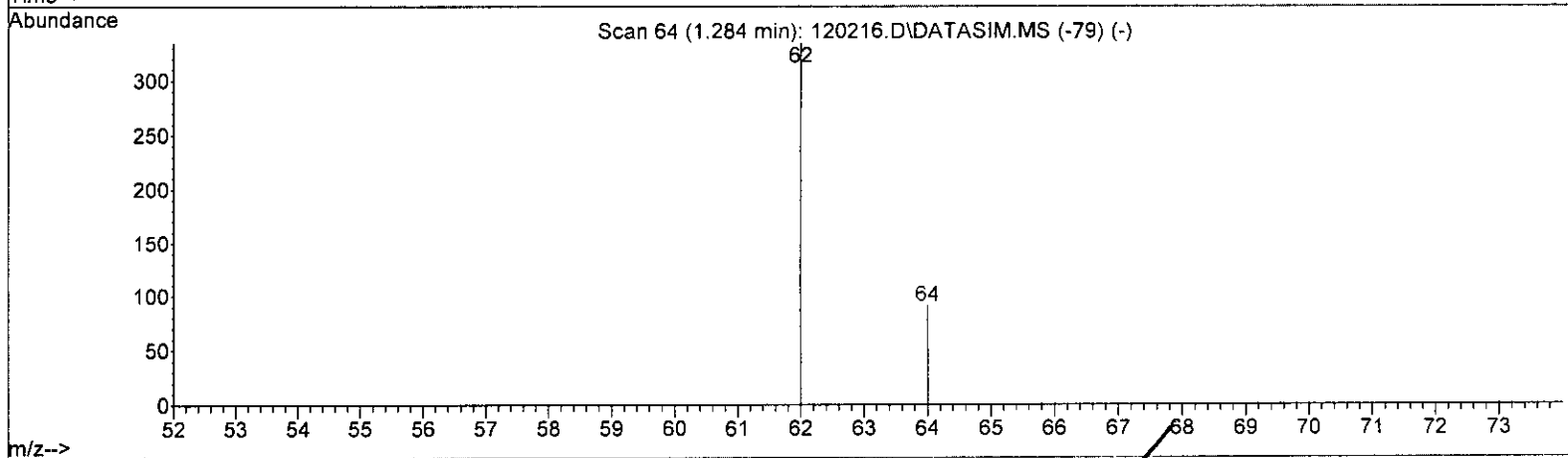
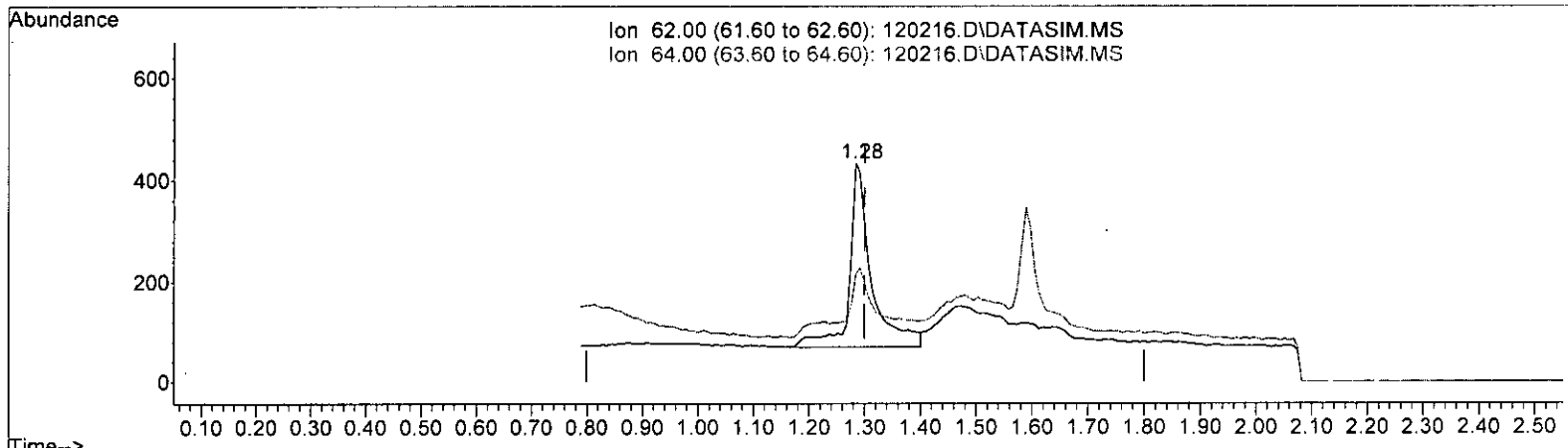
Quant Time: Dec 05 12:39:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 12:32:56 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(6) Vinyl chloride (TMP)

1.284min (-0.016) 0.277 ppb

response 1013

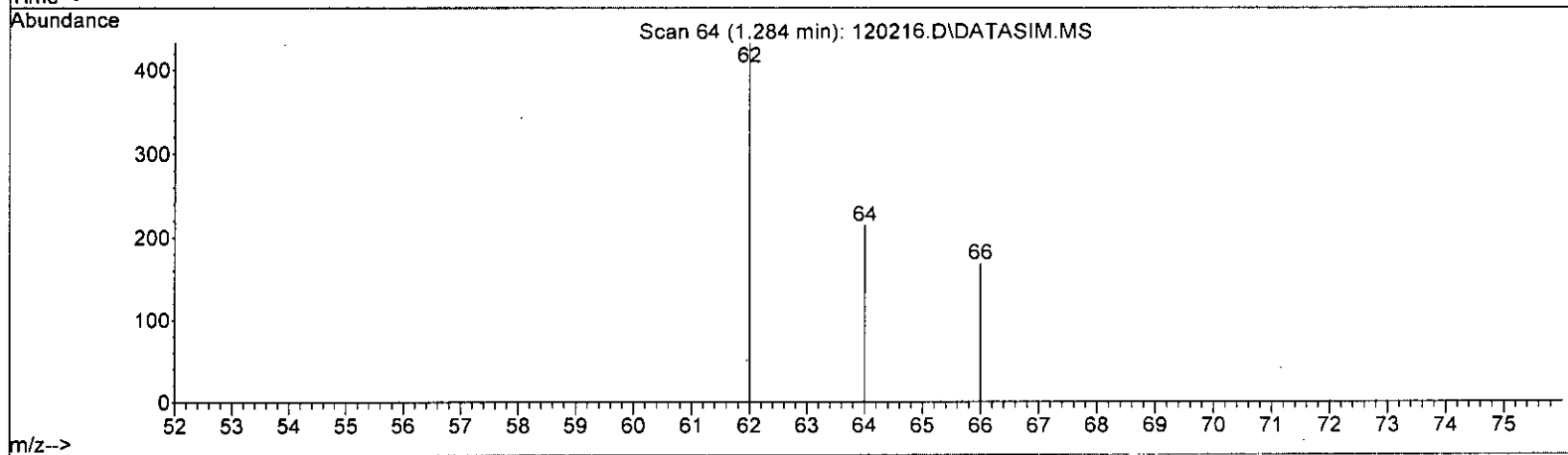
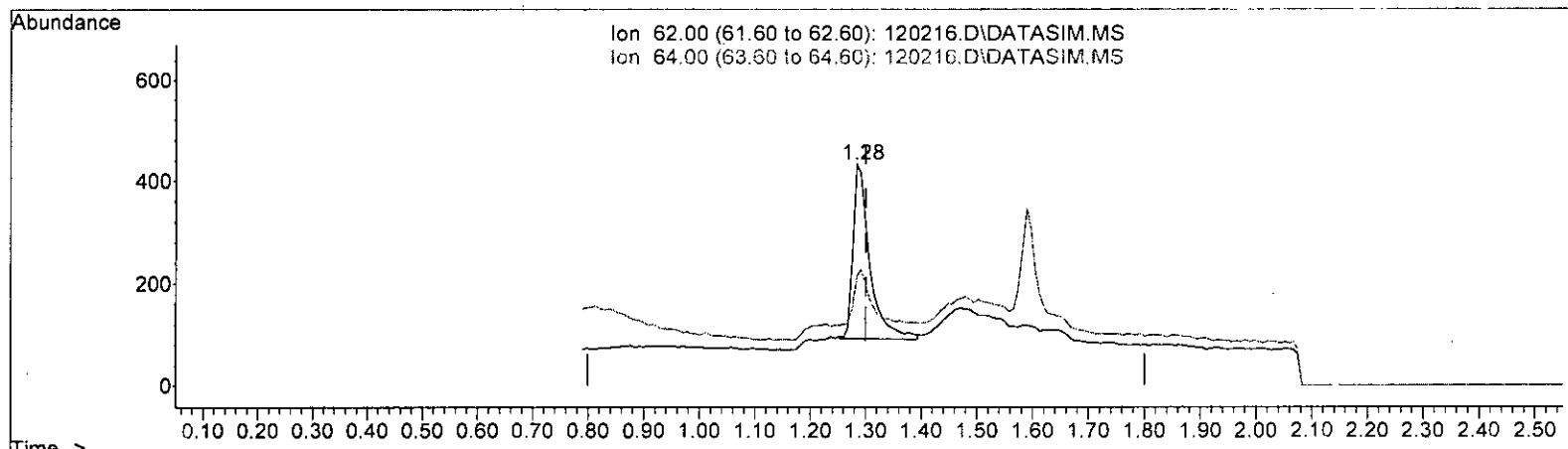
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	33.61
0.00	0.00	0.00
0.00	0.00	0.00

*M 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(6) Vinyl chloride (TMP)  
 1.284min (-0.016) 0.187 ppb m

response	714	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	49.31
0.00	0.00	0.00
0.00	0.00	0.00

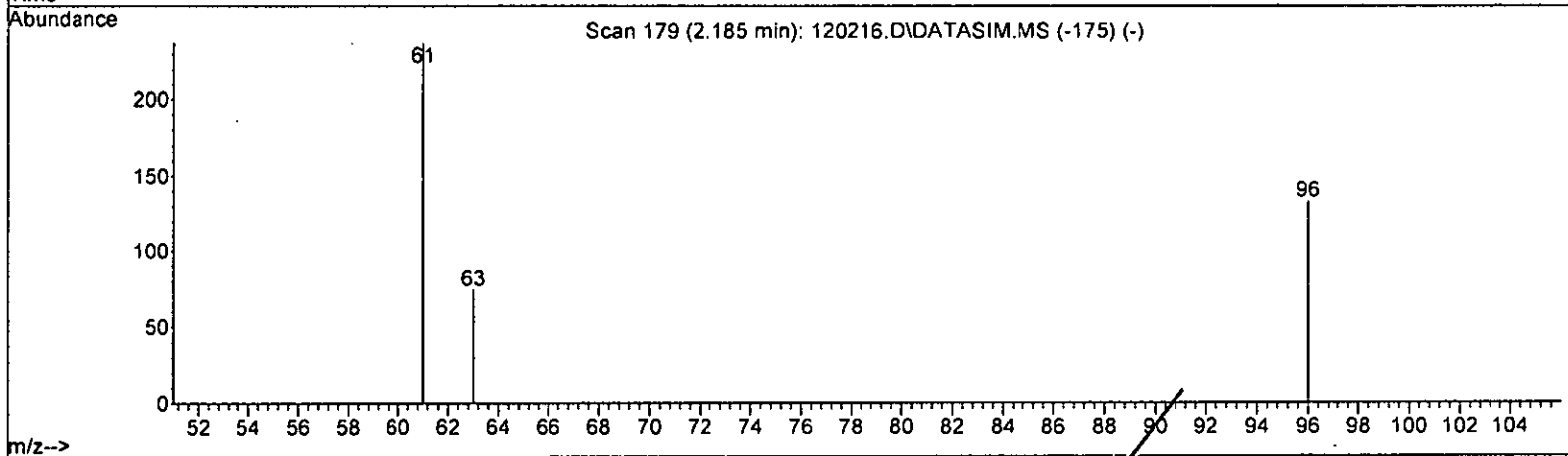
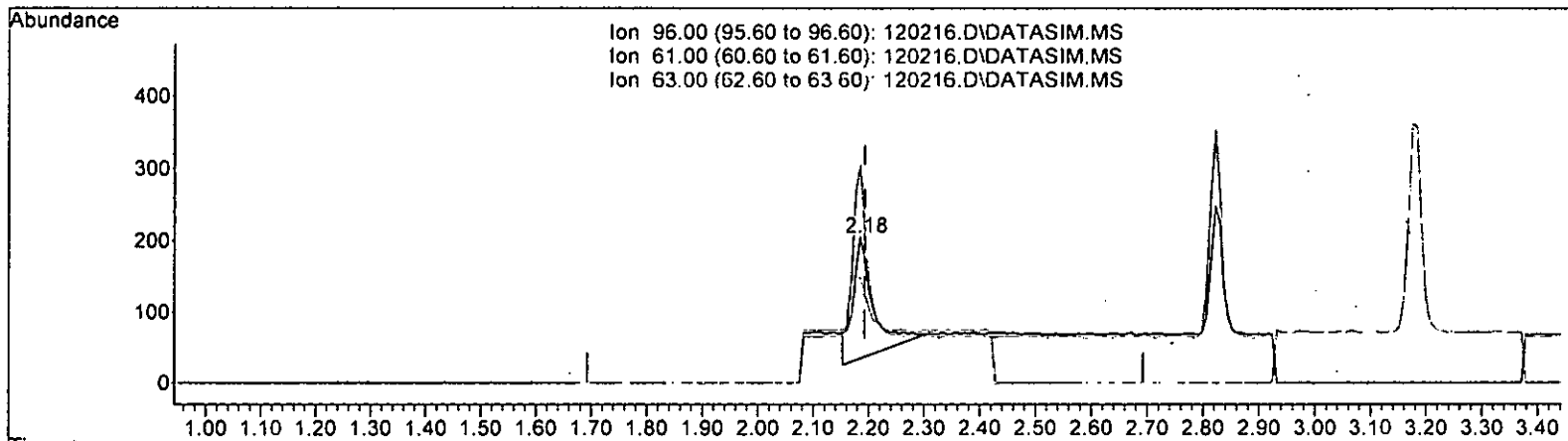
*m 12.5*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.185min (-0.008) 0.378 ppb

response 434

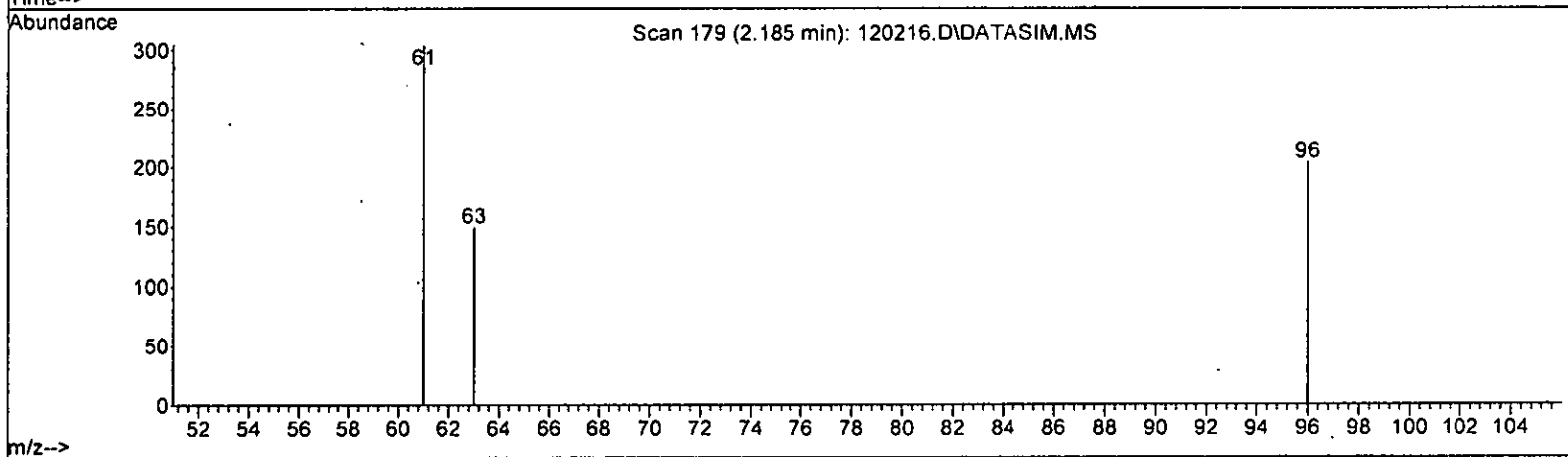
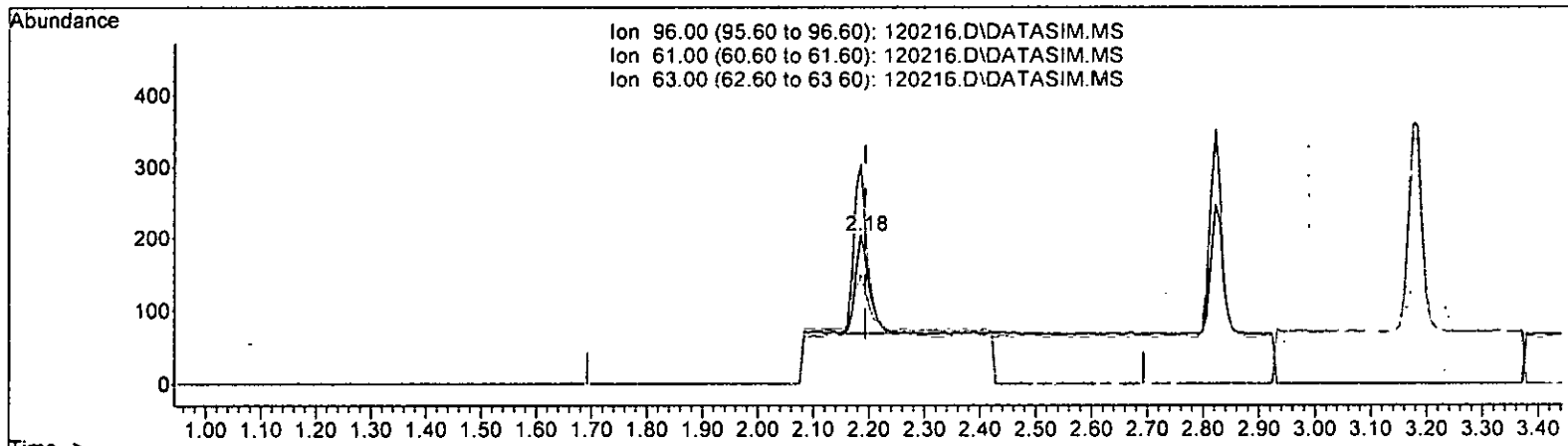
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	175.74
63.00	55.30	55.15
0.00	0.00	0.00

*Handwritten note:* m 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)  
 2.185min (-0.008) 0.194 ppb m  
 response 233

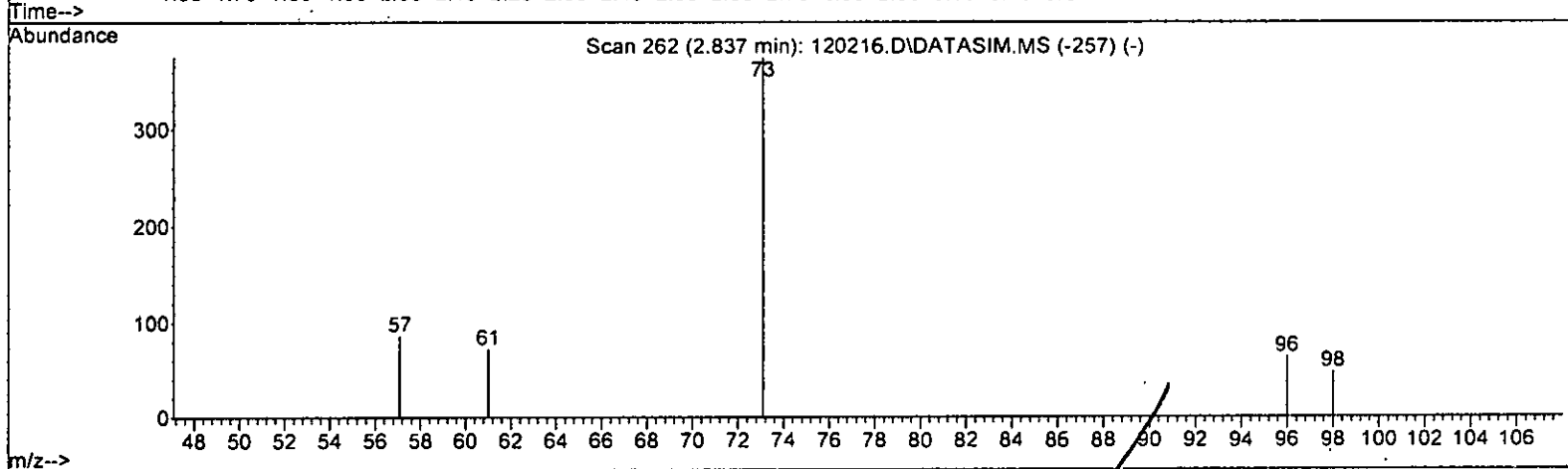
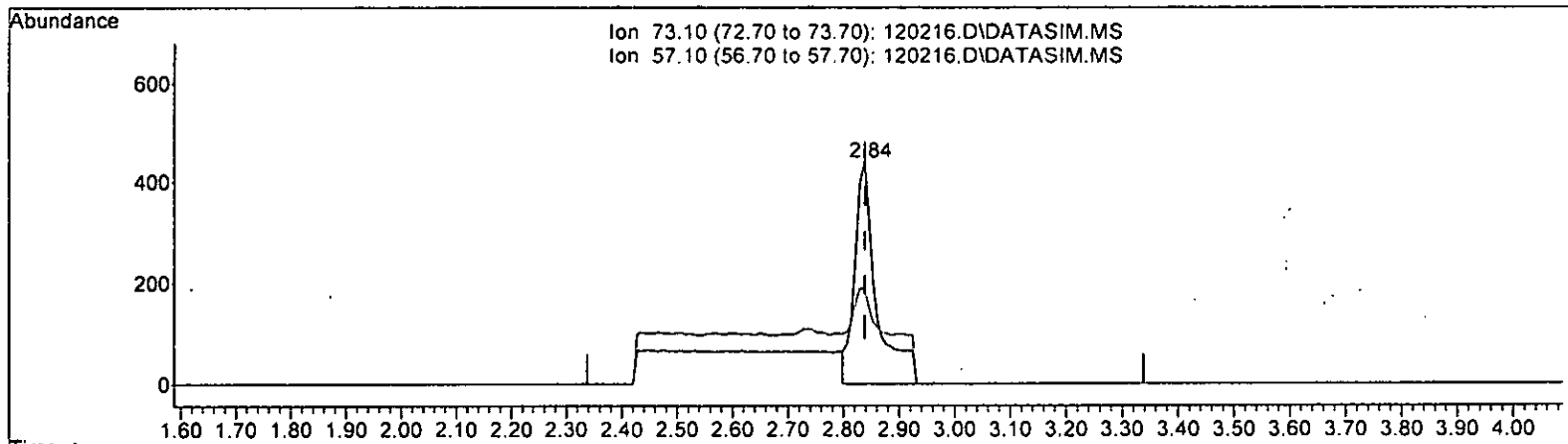
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	149.02
63.00	55.30	73.04
0.00	0.00	0.00

M 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 0.345 ppb

response 1190

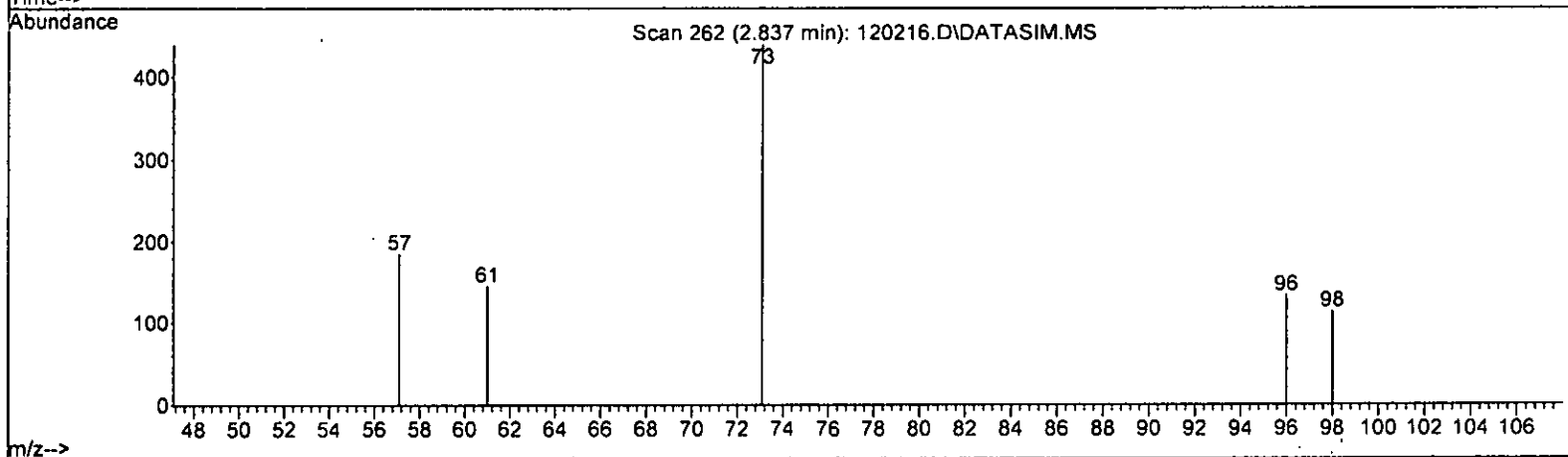
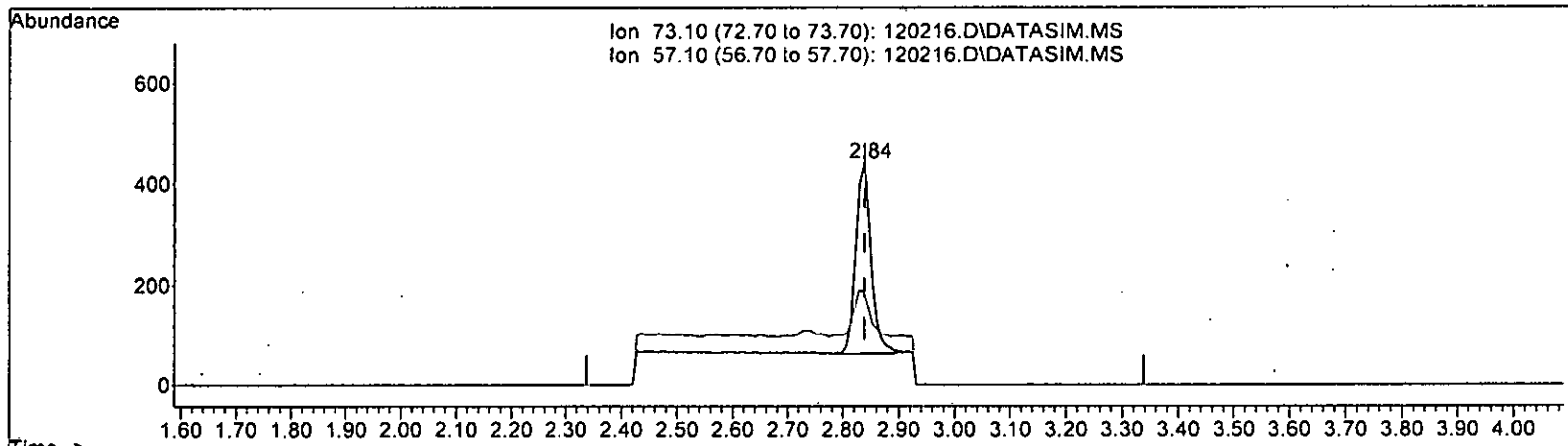
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	42.14
0.00	0.00	0.00
0.00	0.00	0.00

*M 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 0.202 ppb m

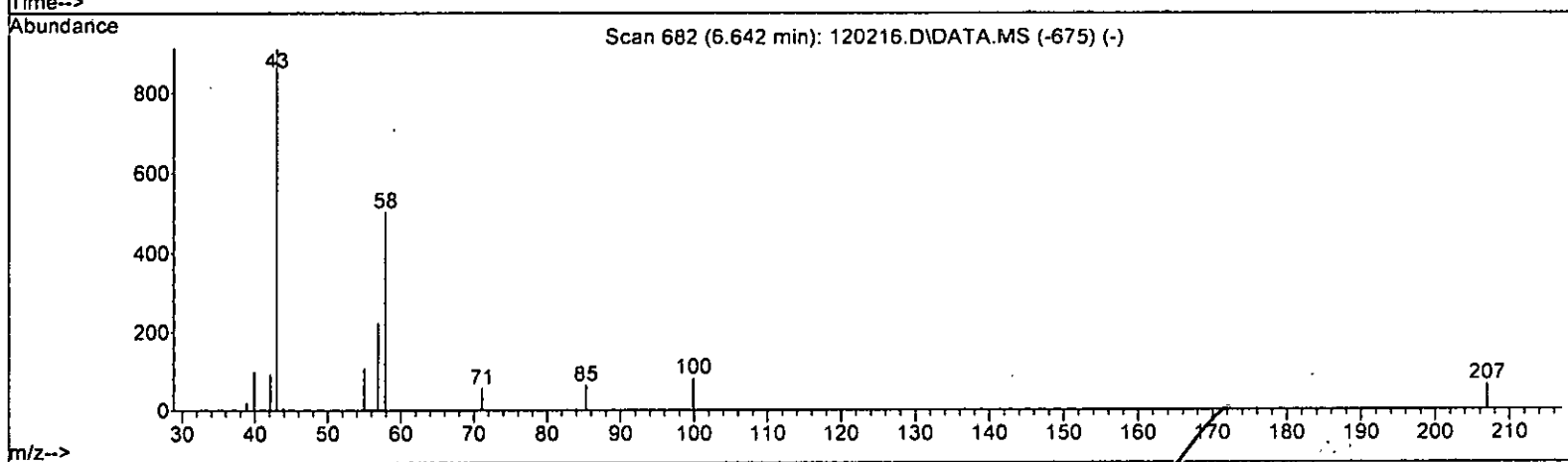
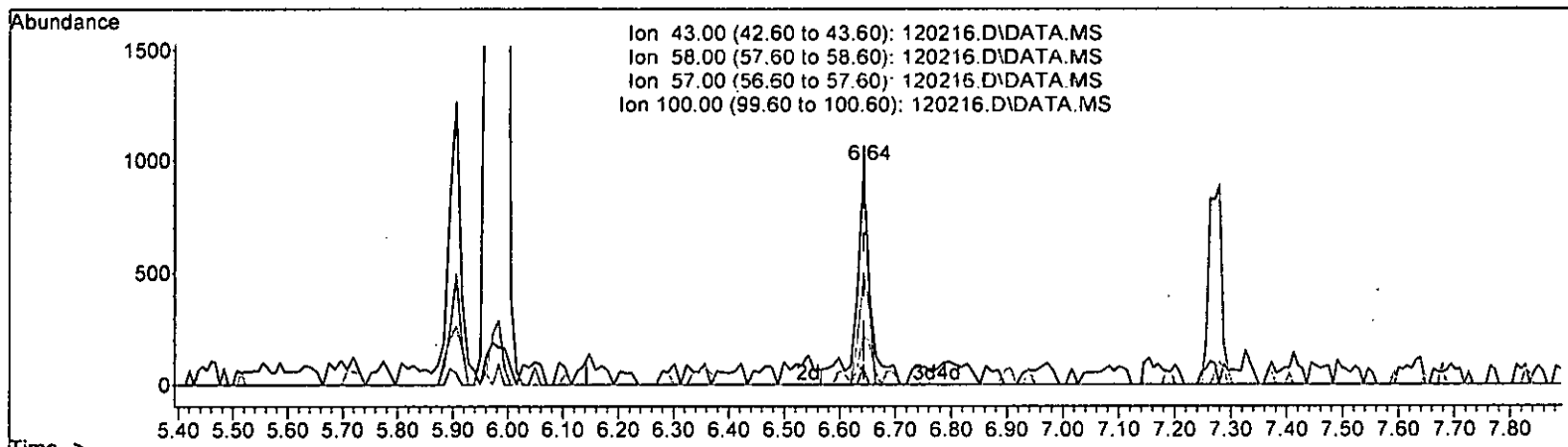
response	721
Ion	Exp% Act%
73.10	100.00 100.00
57.10	26.70 42.14
0.00	0.00 0.00
0.00	0.00 0.00

*M12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(43) 2-Hexanone (TMP)

6.642min (-0.001) 1.537 ppb

response 1677

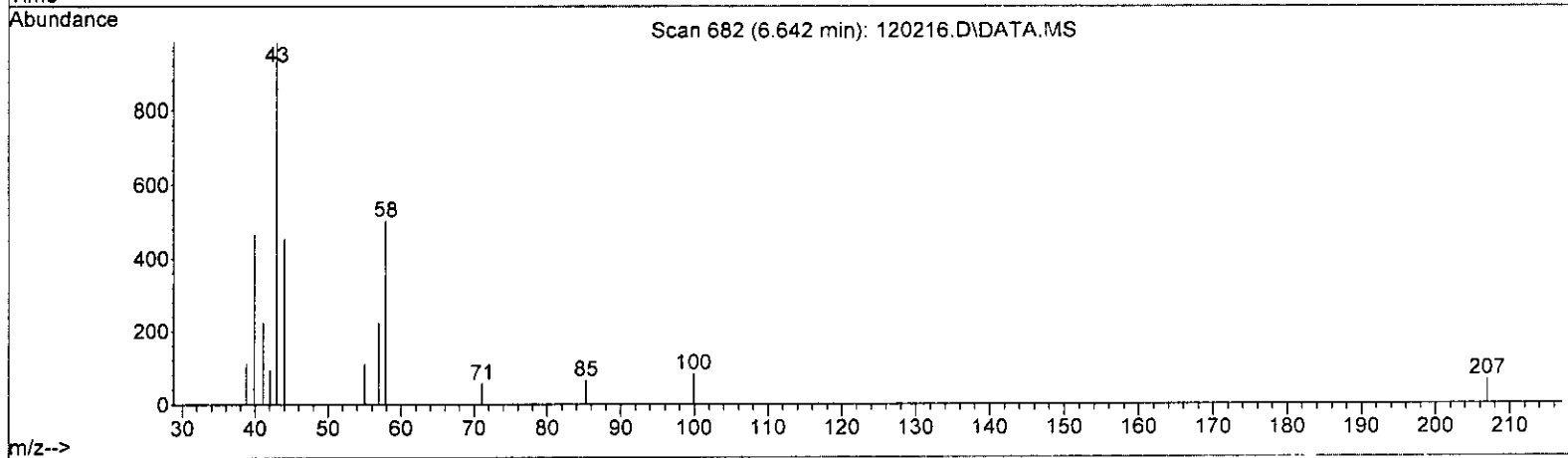
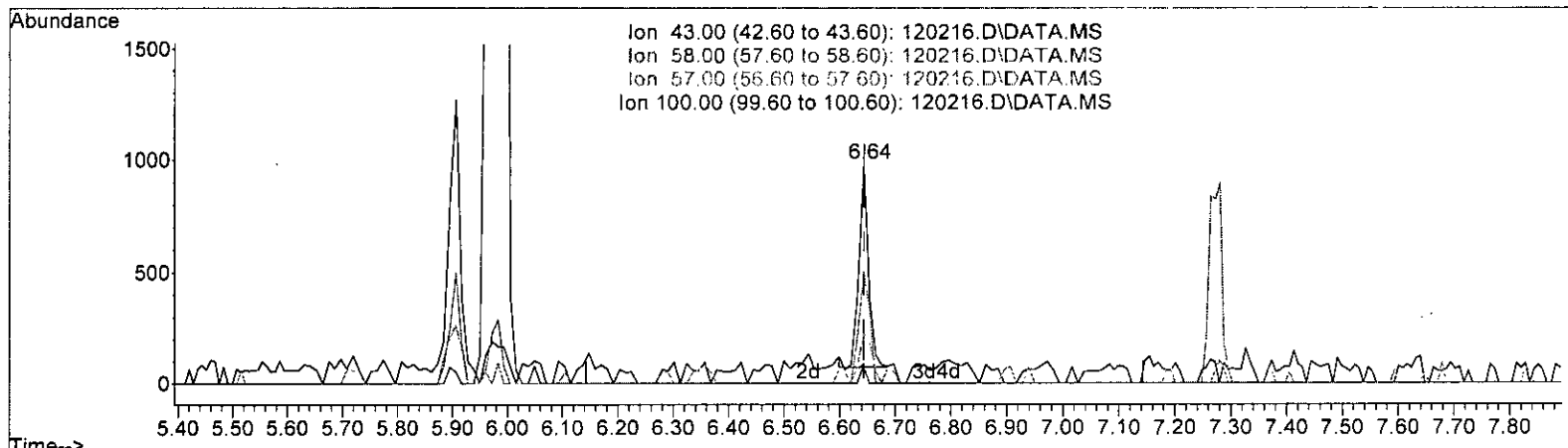
Ion	Exp%	Act%
43.00	100.00	100.00
58.00	56.00	51.07
57.00	21.00	22.53
100.00	10.90	8.26

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120216.D\DATA.MS

(43) 2-Hexanone (TMP)

6.642min (-0.001) 0.970 ppb m

response 1058

Ion	Exp%	Act%
43.00	100.00	100.00
58.00	56.00	51.07
57.00	21.00	22.53
100.00	10.90	8.26

*M 12.5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-0.02
3 S Dibromofluoromethane	10.000	10.310	-3.1	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.09#
5 TMP Chloromethane	-1.000	0.000	0.0	0	-1.23#
6 TMP Vinyl chloride	0.200	0.187	6.5	102	-0.02
7 TMP Bromomethane	-1.000	-2.264	0.0	0	0.00
8 TMP Chloroethane	0.200	0.000	100.0#	0	-1.61#
9 TMP Trichlorofluoromethane	0.200	0.212	-6.0	100	-0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-0.02
11 TMP Acetone	-1.000	0.000	0.0	0	-2.27#
12 TMP 1,1-Dichloroethene	0.200	0.194	3.0	97	0.00
13 TMP Hexane	-1.000	-0.006	0.0	0	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.200	0.202	-1.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.200	0.191	4.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.200	0.267	-33.5#	100	0.00
19 TMP 1,1-Dichloroethane	0.200	0.201	-0.5	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.200	0.221	-10.5	100	0.00
21 TMP 2,2-Dichloropropane	0.200	0.167	16.5	100	-0.02
22 TMP cis-1,2-Dichloroethene	0.200	0.200	0.0	100	0.00
23 TMP Chloroform	0.200	0.214	-7.0	100	0.00
24 TMP 2-Butanone (MEK)	1.000	0.000	100.0#	0	-3.71#
25 TMP t-Amyl methyl ether (TAME)	0.200	0.230	-15.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.200	0.197	1.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.200	0.193	3.5	100	0.00
28 TMP 1,1-Dichloropropene	0.200	0.213	-6.5	100	0.00
29 TMP Carbon tetrachloride	0.200	0.218	-9.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.416	-4.2	100	0.00
31 TMP Benzene	0.200	0.199	0.5	100	0.00
32 TMP Trichloroethene	0.200	0.194	3.0	100	0.00
33 TMP 1,2-Dichloropropane	0.200	0.256	-28.0#	100	0.00
34 TMP Bromodichloromethane	0.200	0.243	-21.5#	100	0.00
35 S Toluene-d8	10.000	10.170	-1.7	100	0.00
36 TMP Dibromomethane	0.200	0.218	-9.0	100	0.00
37 TMP 4-Methyl-2-pentanone	1.000	1.201	-20.1#	100	0.00
38 TMP cis-1,3-Dichloropropene	0.200	0.217	-8.5	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.200	0.200	0.0	100	0.00
41 TMP trans-1,3-Dichloropropene	0.200	0.210	-5.0	100	0.00
42 TMP 1,1,2-Trichloroethane	0.200	0.196	2.0	100	0.00
43 TMP 2-Hexanone	-1.000	0.970	0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.200	0.197	1.5	100	0.00
45 TMP Tetrachloroethene	0.200	0.200	0.0	100	0.00
46 TMP Dibromochloromethane	0.200	0.191	4.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.200	0.201	-0.5	100	0.00
48 TMP Chlorobenzene	0.200	0.237	-18.5	100	0.00
49 TMP Ethylbenzene	0.200	0.202	-1.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.200	0.230	-15.0	100	0.00
51 TMP m,p-Xylene	0.400	0.406	-1.5	100	0.00
52 TMP o-Xylene	0.200	0.201	-0.5	100	0.00
53 TMP Styrene	0.200	0.213	-6.5	100	0.00
54 TMP Isopropylbenzene	0.200	0.239	-19.5	100	0.00
55 TMP Bromoform	0.200	0.250	-25.0#	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.638	3.6	100	0.00
58 TMP n-Propylbenzene	0.200	0.220	-10.0	100	0.00
59 TMP Bromobenzene	0.200	0.197	1.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.200	0.246	-23.0#	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.200	0.158	21.0#	100	0.00
62 TMP 1,2,3-Trichloropropane	0.200	0.227	-13.5	100	0.00
63 TMP 2-Chlorotoluene	0.200	0.234	-17.0	100	0.00
64 TMP 4-Chlorotoluene	0.200	0.230	-15.0	100	0.00
65 TMP tert-Butylbenzene	0.200	0.219	-9.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.200	0.244	-22.0#	100	0.00
67 TMP sec-Butylbenzene	0.200	0.226	-13.0	100	0.00
68 TMP p-Isopropyltoluene	0.200	0.189	5.5	100	0.00
69 TMP 1,3-Dichlorobenzene	0.200	0.250	-25.0#	100	0.00
70 TMP 1,4-Dichlorobenzene	0.200	0.229	-14.5	100	0.00
71 TMP 1,2-Dichlorobenzene	0.200	0.173	13.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.200	0.197	1.5	100	0.00
74 TMP Hexachlorobutadiene	0.200	0.170	15.0	100	0.00
75 TMP Naphthalene	0.200	0.201	-0.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.200	0.225	-12.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-0.02
3 S Dibromofluoromethane	0.264	0.272	-3.0	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.000#	100.0#	0#	-1.09#
5 TMP Chloromethane	0.951	0.000#	100.0#	0#	-1.23#
6 TMP Vinyl chloride	0.862	0.806	6.5	102	-0.02
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	0.00
8 TMP Chloroethane	0.341	0.000#	100.0#	0#	-1.61#
9 TMP Trichlorofluoromethane	0.899	0.951	-5.8	100	-0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-0.02
11 TMP Acetone	0.031	0.000#	100.0#	0#	-2.27#
12 TMP 1,1-Dichloroethene	0.271	0.263	3.0	97	0.00
13 TMP Hexane	0.469	0.000#	100.0#	0#	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.74#
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.814	-0.2	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.300	4.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	1.270	-33.3#	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.547	0.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.340	-10.7	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.527	-51.9#	100	-0.02
22 TMP cis-1,2-Dichloroethene	0.329	0.326	0.9	100	0.00
23 TMP Chloroform	0.477	0.509	-6.7	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.000#	100.0#	0#	-3.71#
25 TMP t-Amyl methyl ether (TAME)	0.739	0.848	-14.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.468	2.3	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.477	3.4	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.393	-6.8	100	0.00
29 TMP Carbon tetrachloride	0.396	0.431	-8.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	1.103	1.101	0.2	100	0.00
32 TMP Trichloroethene	0.368	0.356	3.3	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.403	-27.9#	100	0.00
34 TMP Bromodichloromethane	0.375	0.456	-21.6#	100	0.00
35 S Toluene-d8	0.975	0.992	-1.7	100	0.00
36 TMP Dibromomethane	0.181	0.198	-9.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.065	-20.4#	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.480	-8.4	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.979	0.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.533	-4.9	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.303	-6.3	100	0.00
43 TMP 2-Hexanone	0.312	0.000#	100.0#	0#	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.1Smin  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.477	1.4	100	0.00
45 TMP Tetrachloroethene	0.420	0.415	1.2	100	0.00
46 TMP Dibromochloromethane	0.366	0.350	4.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.378	0.3	100	0.00
48 TMP Chlorobenzene	0.957	1.136	-18.7	100	0.00
49 TMP Ethylbenzene	1.885	1.887	-0.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.411	-14.8	100	0.00
51 TMP m,p-Xylene	0.705	0.709	-0.6	100	0.00
52 TMP o-Xylene	0.683	0.681	0.3	100	0.00
53 TMP Styrene	1.004	1.071	-6.7	100	0.00
54 TMP Isopropylbenzene	1.606	1.922	-19.7	100	0.00
55 TMP Bromoform	0.269	0.337	-25.3#	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.833	3.6	100	0.00
58 TMP n-Propylbenzene	3.386	3.728	-10.1	100	0.00
59 TMP Bromobenzene	0.790	0.777	1.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	3.057	-23.2#	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.580	20.9#	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.678	-13.2	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.399	-16.8	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.713	-15.2	100	0.00
65 TMP tert-Butylbenzene	2.194	2.399	-9.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	3.146	-22.2#	100	0.00
67 TMP sec-Butylbenzene	3.160	3.571	-13.0	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.554	5.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.840	-25.3#	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.713	-14.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.177	13.5	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.000#	100.0#	0#	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.978	0.962	1.6	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.438	15.1	100	0.00
75 TMP Naphthalene	2.401	2.414	-0.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.997	-12.7	100	0.00

(#) = Out of Range

SPCC's out = 12 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	44274	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35020	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19757	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	12030	10.310	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	103.10%		
30) 1,2-Dichloroethane-d4	4.35	102	2749	10.416	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	104.20%		
35) Toluene-d8	5.98	98	43922	10.170	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	101.70%		
57) 4-Bromofluorobenzene	8.38	95	16453	9.638	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	96.40%		
Target Compounds							
2) Ethanol	1.85	45	86	No Calib			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D. d			
5) Chloromethane	0.00		0	N.D. d			
6] Vinyl chloride	1.28	62	714m	0.187	ppb		
7) Bromomethane	1.54	94	557	Below Cal	#	35	
8) Chloroethane	0.00		0	N.D. d			
9) Trichlorofluoromethane	1.76	101	842	0.212	ppb		88
10) 2-Propanol	2.39	45	352	No Calib			
11) Acetone	0.00		0	N.D. d			
12] 1,1-Dichloroethene	2.18	96	233m	0.194	ppb		
13) Hexane	3.05	57	587	Below Cal		76	
14) Methylene chloride	0.00		0	N.D. d			
15) t-Butyl alcohol (TBA)	0.00		0	N.D. d			
16] Methyl t-butyl ether (...)	2.84	73	721m	0.202	ppb		
17] trans-1,2-Dichloroethene	2.82	96	266	0.191	ppb		88
18) Diisopropyl ether (DIPE)	3.24	45	1125	0.267	ppb		85
19] 1,1-Dichloroethane	3.17	63	484	0.201	ppb		95
20) Ethyl t-butyl ether (E...)	3.55	87	301	0.221	ppb	#	82
21) 2,2-Dichloropropane	3.65	77	467	0.167	ppb		74
22] cis-1,2-Dichloroethene	3.67	96	289	0.200	ppb		93
23) Chloroform	3.94	83	451	0.214	ppb	#	59
24) 2-Butanone (MEK)	0.00		0	N.D. d			
25) t-Amyl methyl ether (T...)	4.49	73	751	0.230	ppb		88
26] 1,2-Dichloroethane (EDC)	4.41	62	414	0.197	ppb		97
27] 1,1,1-Trichloroethane	4.08	97	422	0.193	ppb		98
28) 1,1-Dichloropropene	4.22	75	348	0.213	ppb	#	45
29) Carbon tetrachloride	4.21	117	382	0.218	ppb	#	58
31] Benzene	4.38	78	975	0.199	ppb		99
32] Trichloroethene	4.93	95	315	0.194	ppb		97
33) 1,2-Dichloropropane	5.13	63	357	0.256	ppb	#	100
34) Bromodichloromethane	5.37	83	404	0.243	ppb		81
36) Dibromomethane	5.23	93	175	0.218	ppb		97

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

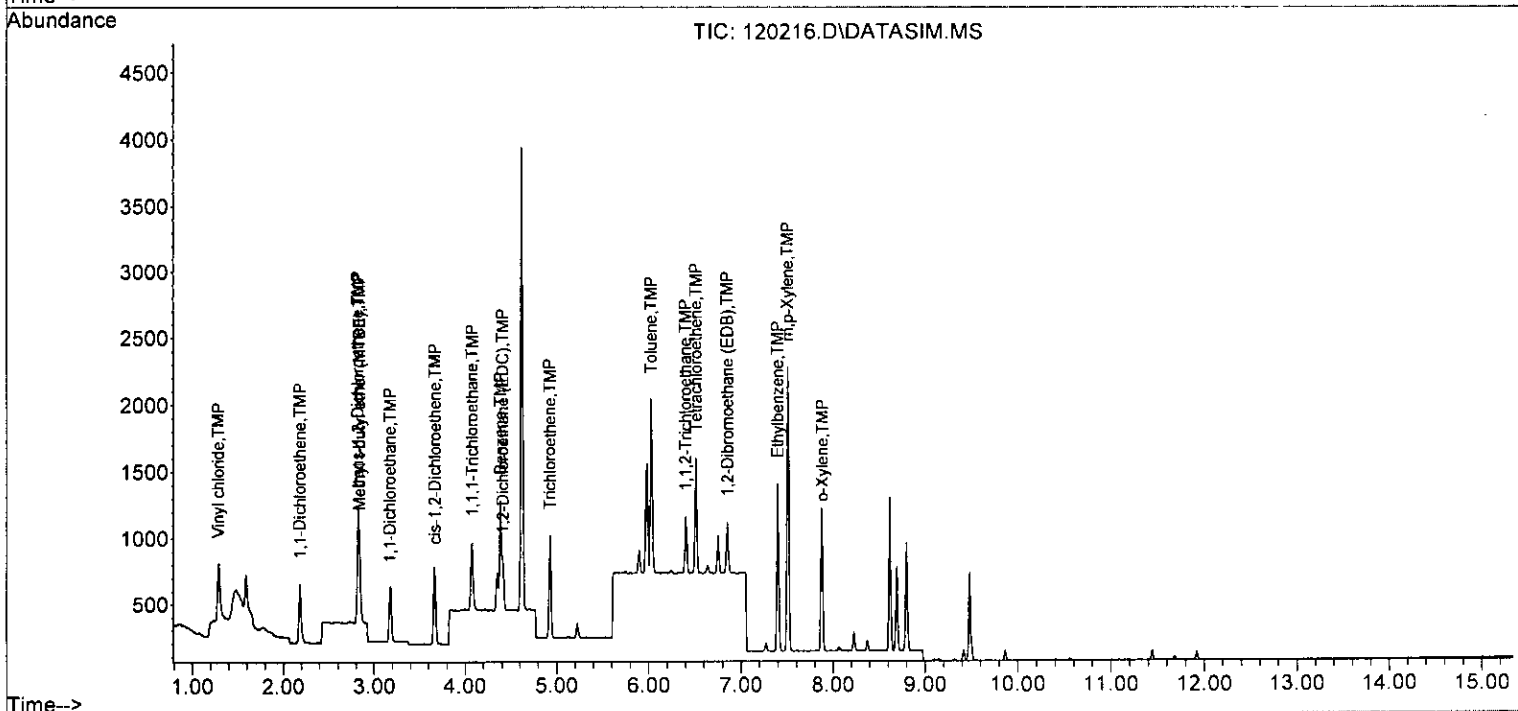
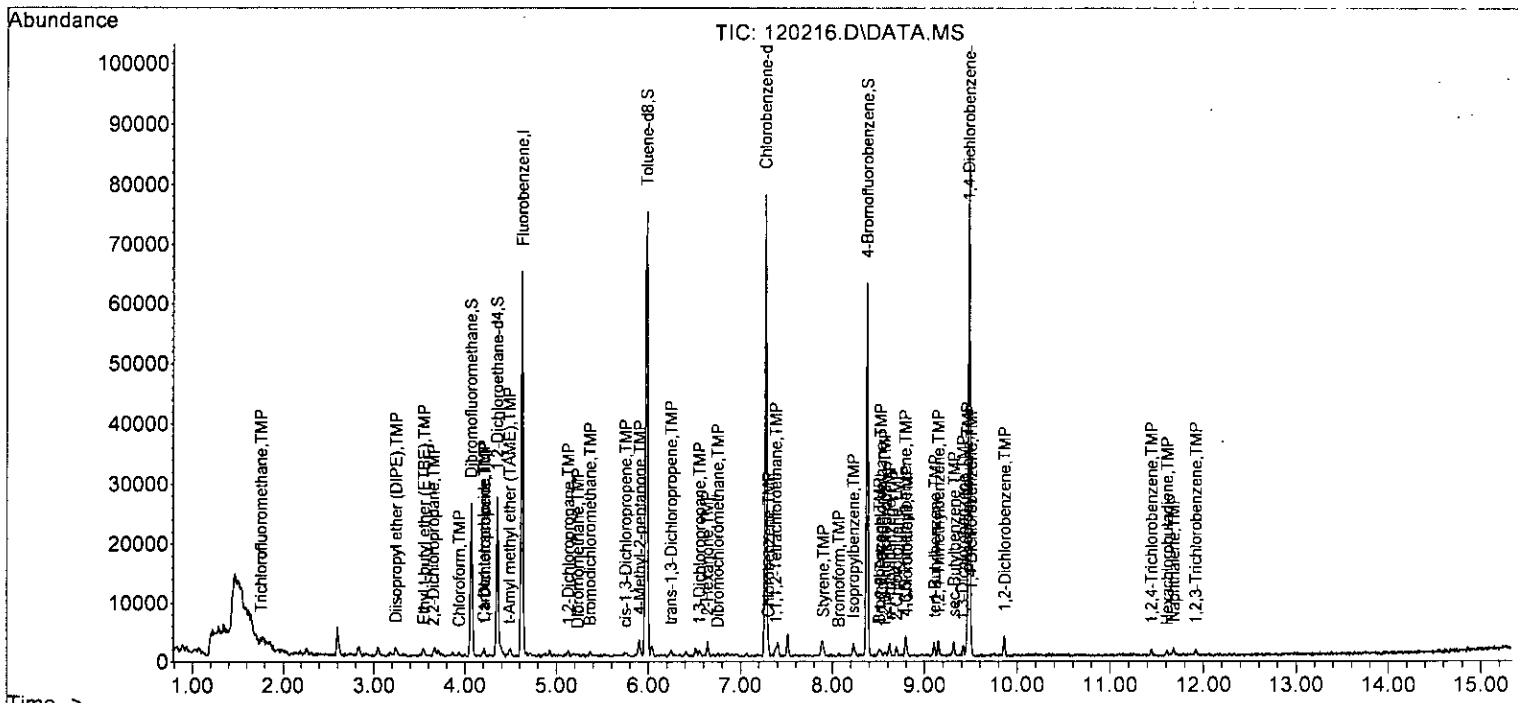
Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	288	1.201	ppb	# 62
38) cis-1,3-Dichloropropene	5.75	75	425	0.217	ppb	75
40] Toluene	6.03	92	686	0.200	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	373	0.210	ppb	# 59
42] 1,1,2-Trichloroethane	6.40	83	212	0.196	ppb	98
43) 2-Hexanone	6.64	43	1058m	0.970	ppb	
44) 1,3-Dichloropropane	6.55	76	334	0.197	ppb	79
45] Tetrachloroethene	6.51	164	291	0.200	ppb	98
46) Dibromochloromethane	6.75	129	245	0.191	ppb	82
47] 1,2-Dibromoethane (EDB)	6.85	107	265	0.201	ppb	95
48) Chlorobenzene	7.30	112	796	0.237	ppb	91
49] Ethylbenzene	7.40	91	1322	0.202	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	288	0.230	ppb	81
51] m,p-Xylene	7.51	106	993	0.406	ppb	100
52] o-Xylene	7.88	106	477	0.201	ppb	99
53) Styrene	7.90	104	750	0.213	ppb	79
54) Isopropylbenzene	8.23	105	1346	0.239	ppb	96
55) Bromoform	8.07	173	236	0.250	ppb	# 33
58) n-Propylbenzene	8.63	91	1473	0.220	ppb	92
59) Bromobenzene	8.51	156	307	0.197	ppb	81
60) 1,3,5-Trimethylbenzene	8.79	105	1208	0.246	ppb	77
61) 1,1,2,2-Tetrachloroethane	8.52	83	229	0.158	ppb	84
62) 1,2,3-Trichloropropane	8.57	75	268	0.227	ppb	68
63) 2-Chlorotoluene	8.70	91	948	0.234	ppb	76
64) 4-Chlorotoluene	8.81	91	1072	0.230	ppb	93
65) tert-Butylbenzene	9.11	119	948	0.219	ppb	74
66) 1,2,4-Trimethylbenzene	9.15	105	1243	0.244	ppb	84
67) sec-Butylbenzene	9.32	105	1411	0.226	ppb	91
68) p-Isopropyltoluene	9.46	119	1009	0.189	ppb	80
69) 1,3-Dichlorobenzene	9.41	146	727	0.250	ppb	94
70) 1,4-Dichlorobenzene	9.50	146	677	0.229	ppb	91
71) 1,2-Dichlorobenzene	9.86	146	465	0.173	ppb	89
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	11.44	180	380	0.197	ppb	# 59
74) Hexachlorobutadiene	11.61	225	173	0.170	ppb	94
75) Naphthalene	11.68	128	954	0.201	ppb	86
76) 1,2,3-Trichlorobenzene	11.92	180	394	0.225	ppb	# 73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120216.D  
 Acq On : 02 Dec 2022 10:29 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-4I  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

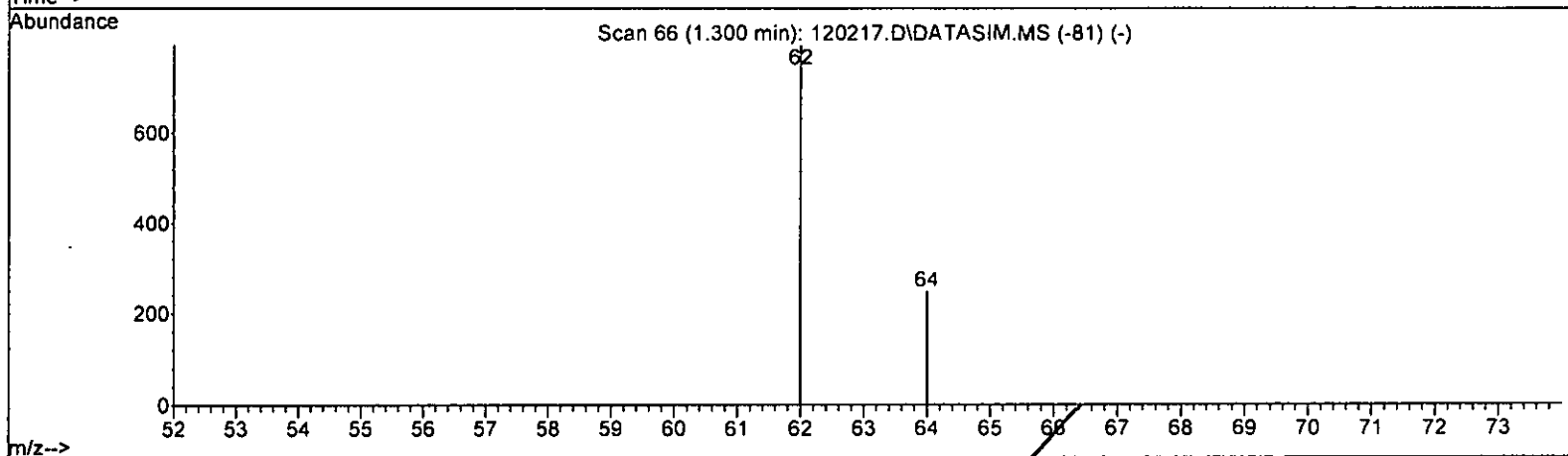
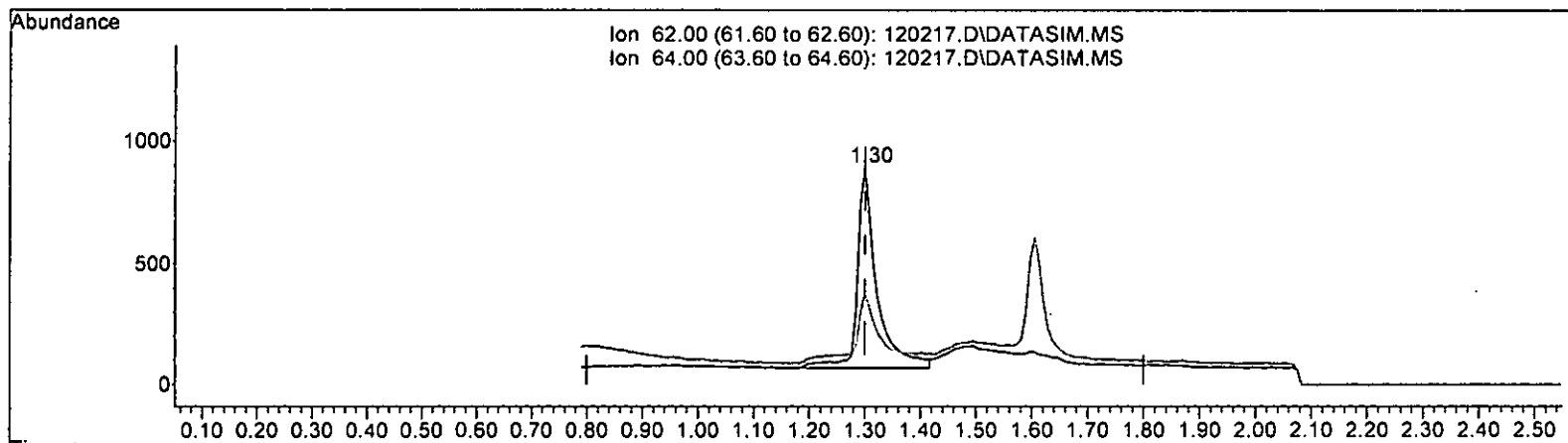
Quant Time: Dec 05 13:12:40 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq Dn : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(6) Vinyl chloride (TMP)  
 1.300min (-0.000) 0.563 ppb

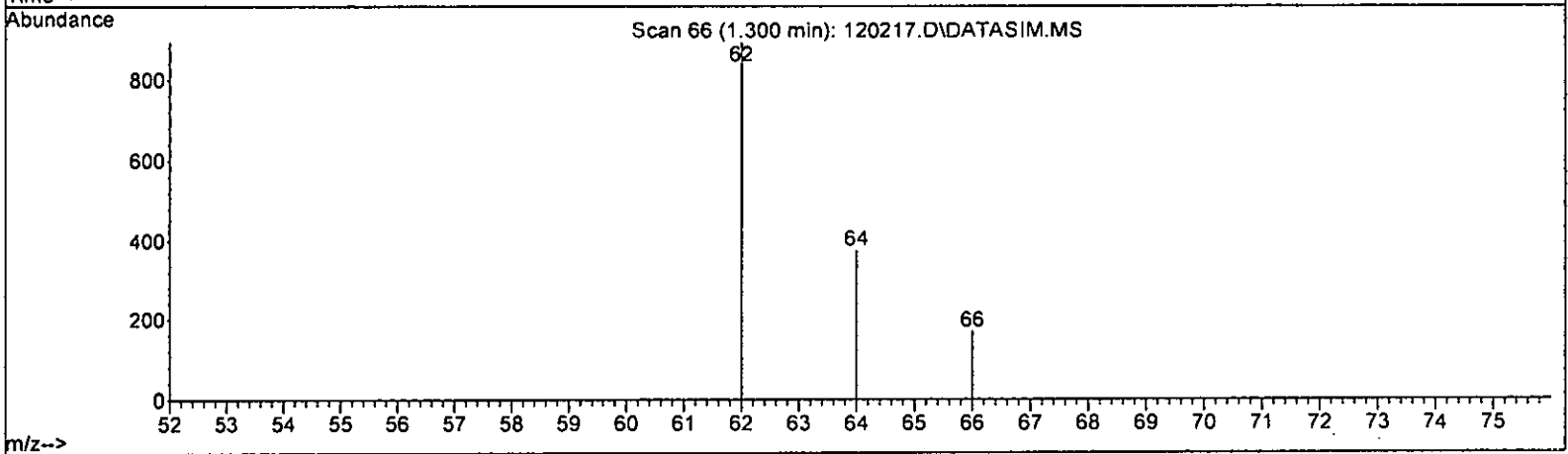
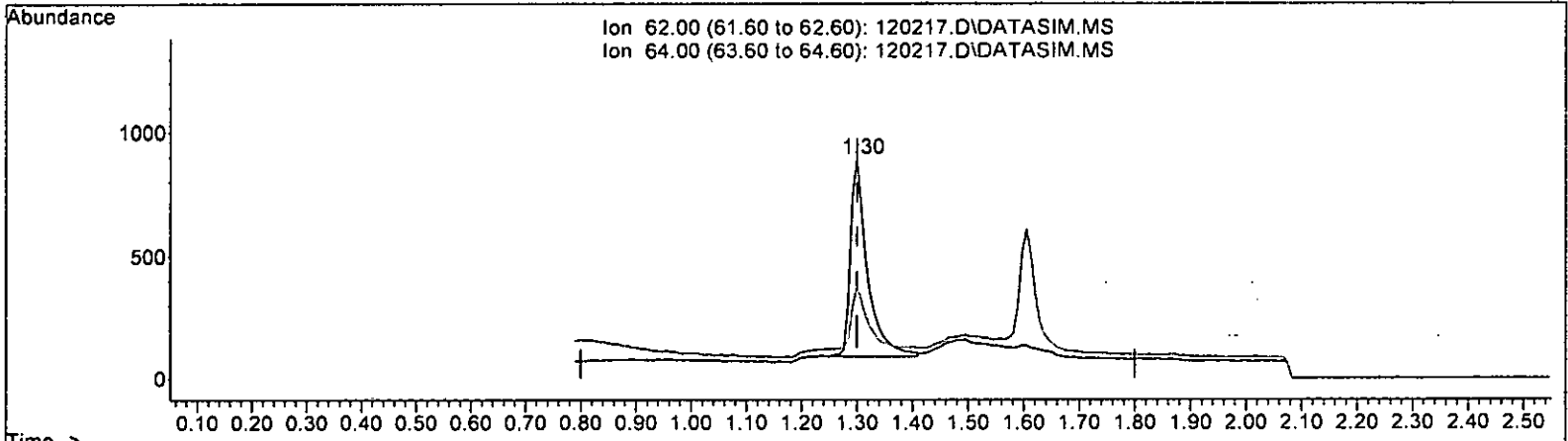
response	2014	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	34.79
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.9*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 0.468 ppb m

response 1692

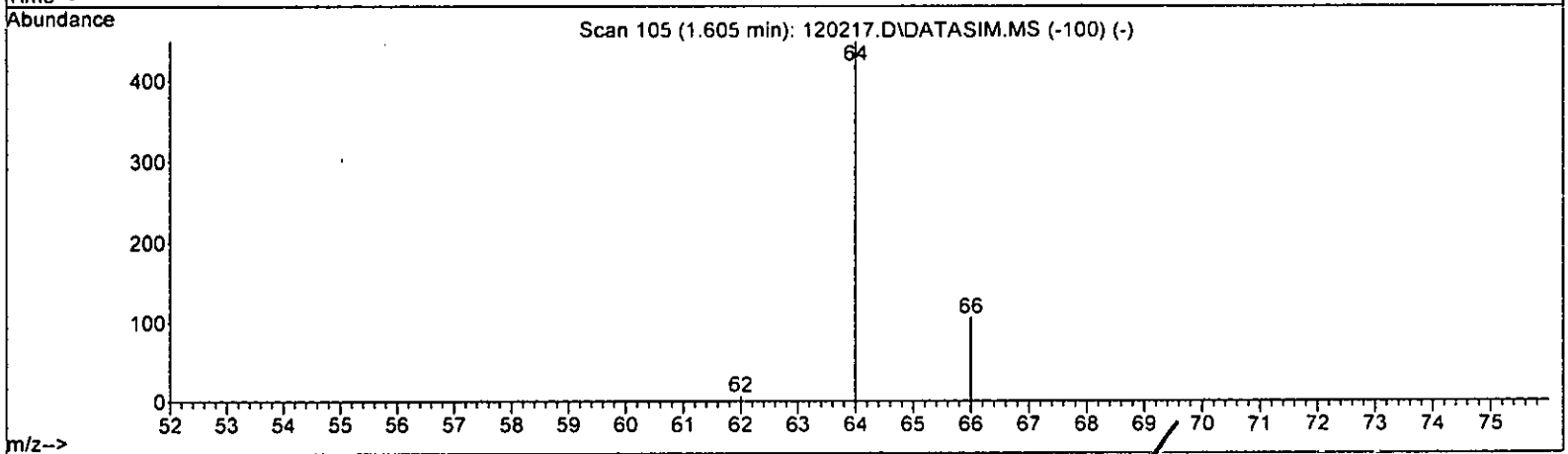
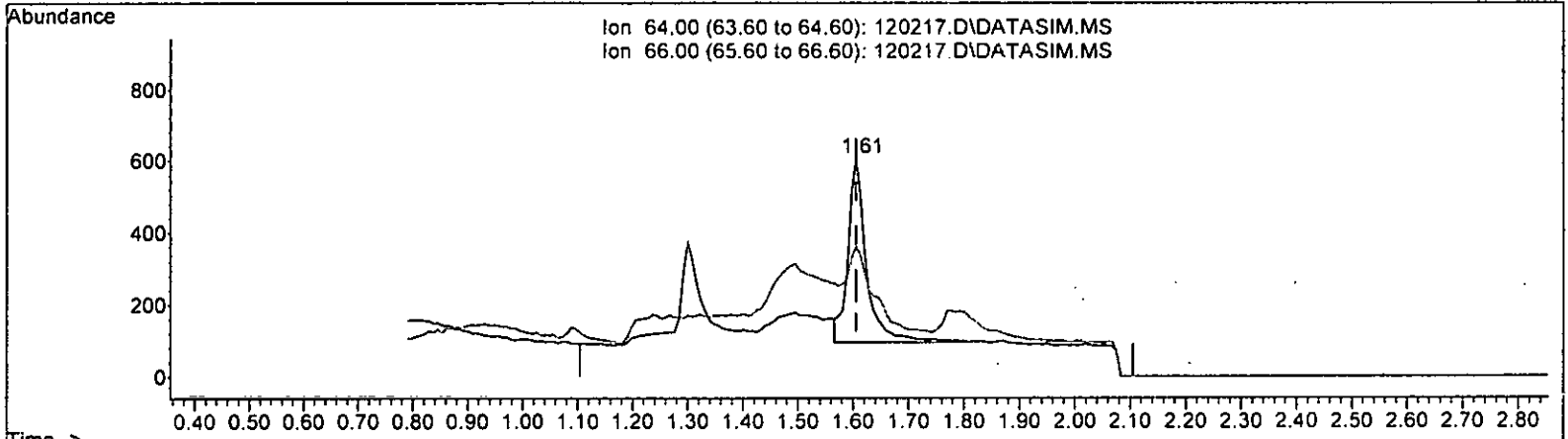
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	41.99
0.00	0.00	0.00
0.00	0.00	0.00

M 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(8) Chloroethane (TMP)

1.605min (+ 0.000) 0.689 ppb

response 1165

Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	38.21
0.00	0.00	0.00
0.00	0.00	0.00

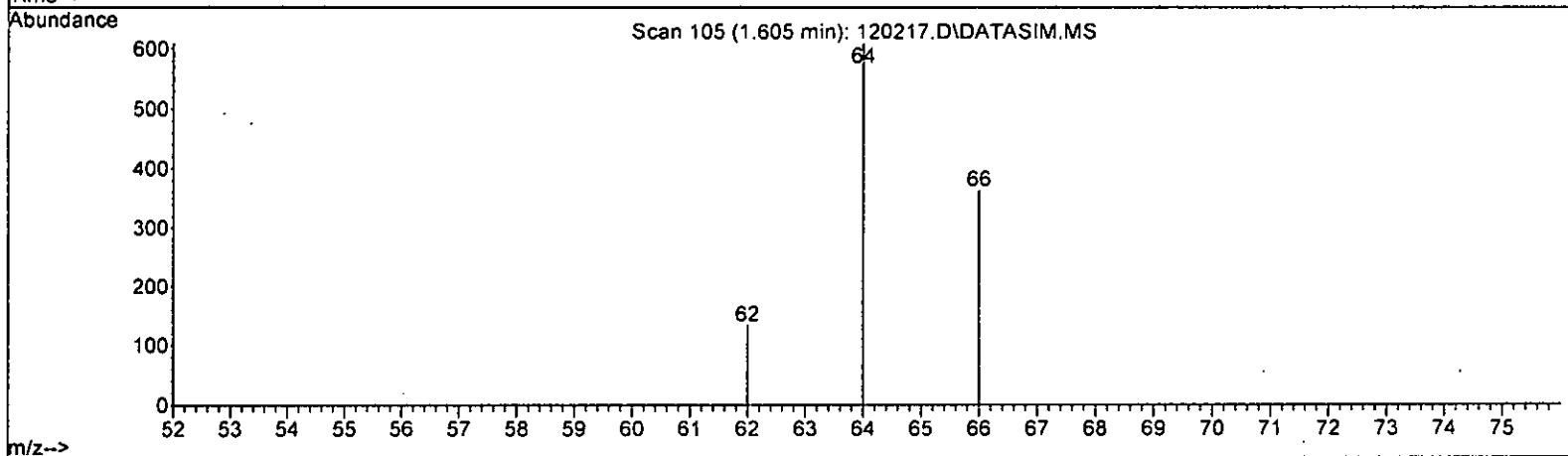
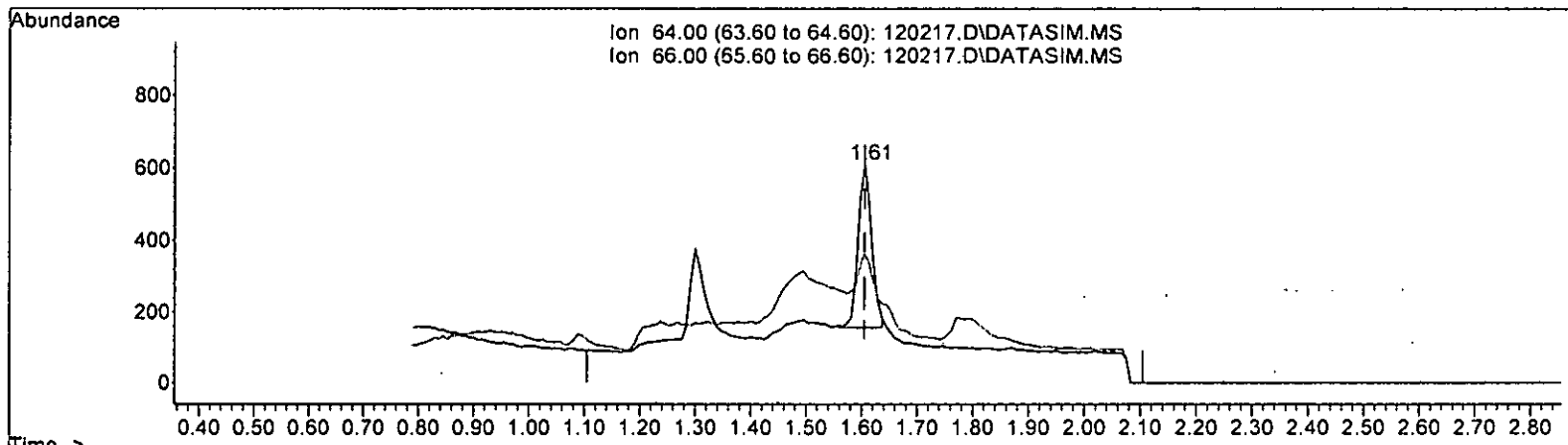
*m 12.5*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(8) Chloroethane (TMP)

1.605min (+ 0.000) 0.422 ppb m

response 763

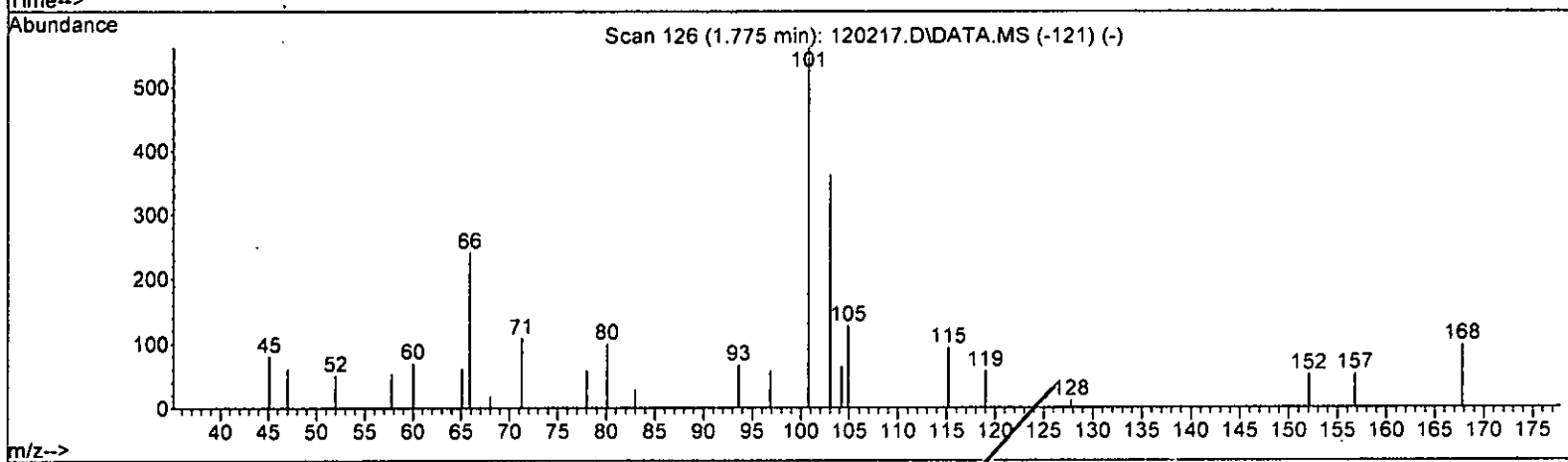
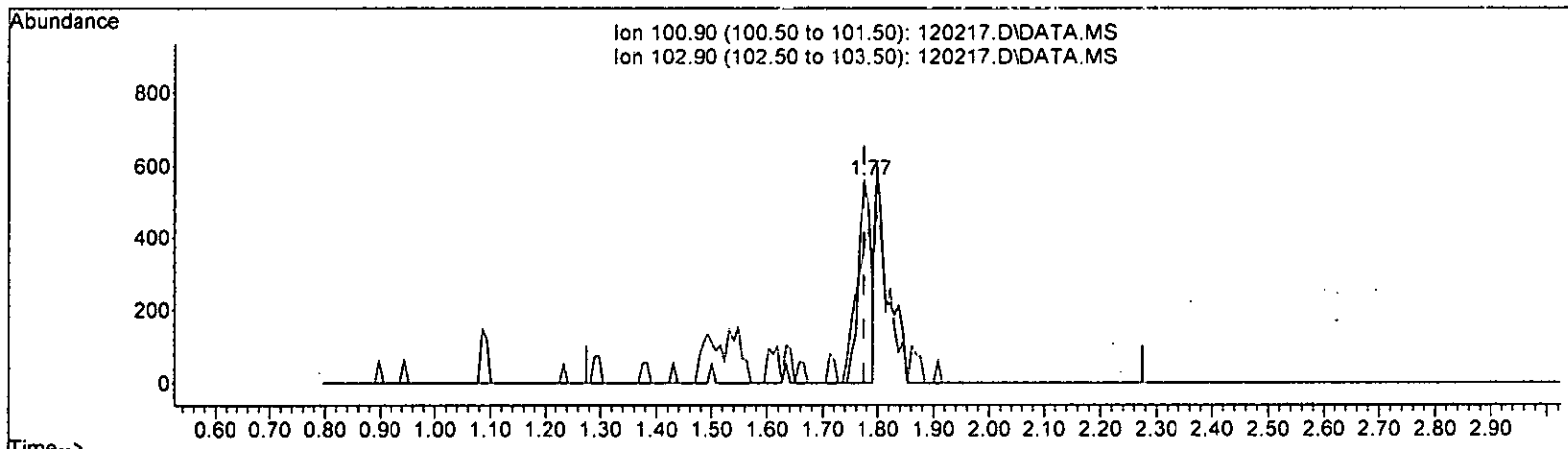
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	59.54
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.775min (-0.000) 0.228 ppb

response 934

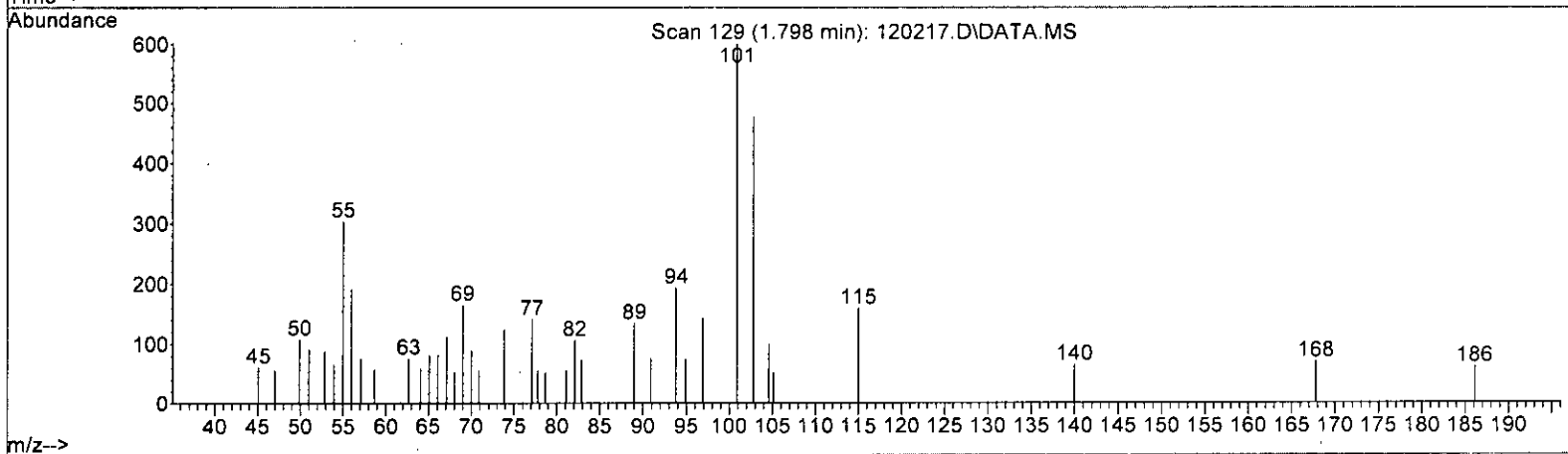
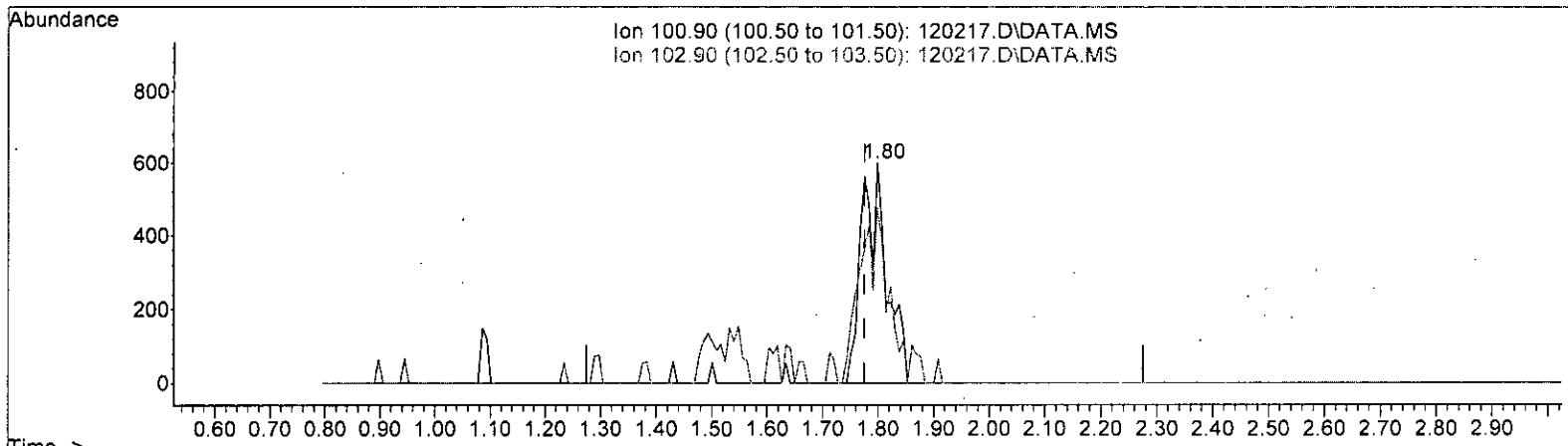
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.53
0.00	0.00	0.00
0.00	0.00	0.00

M 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.798min (+ 0.023) 0.458 ppb m

response 1877

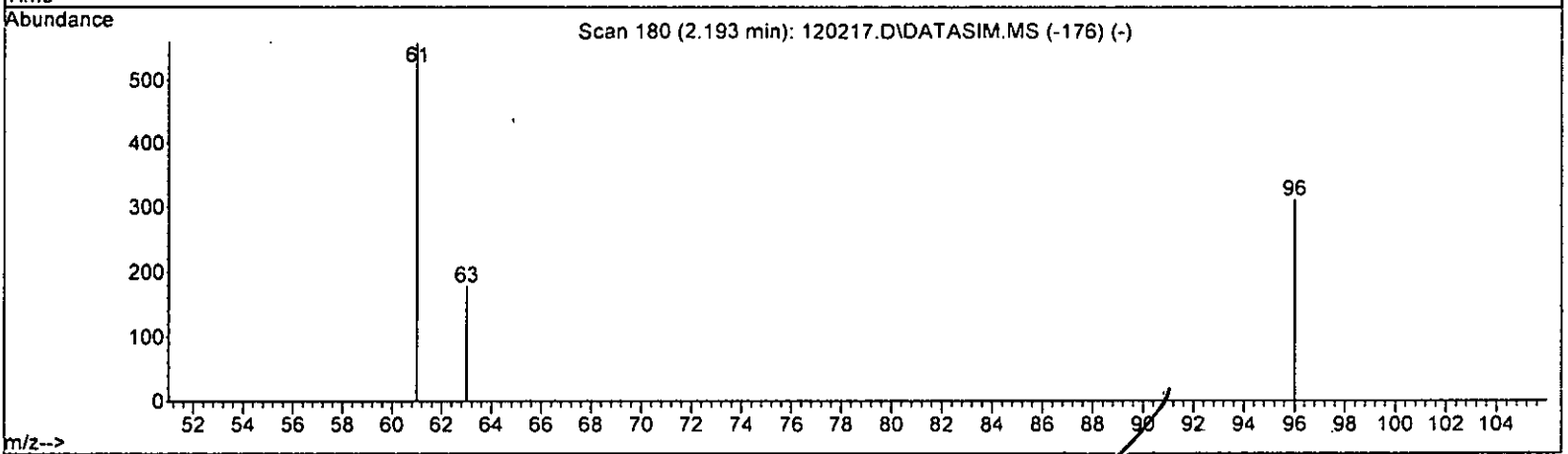
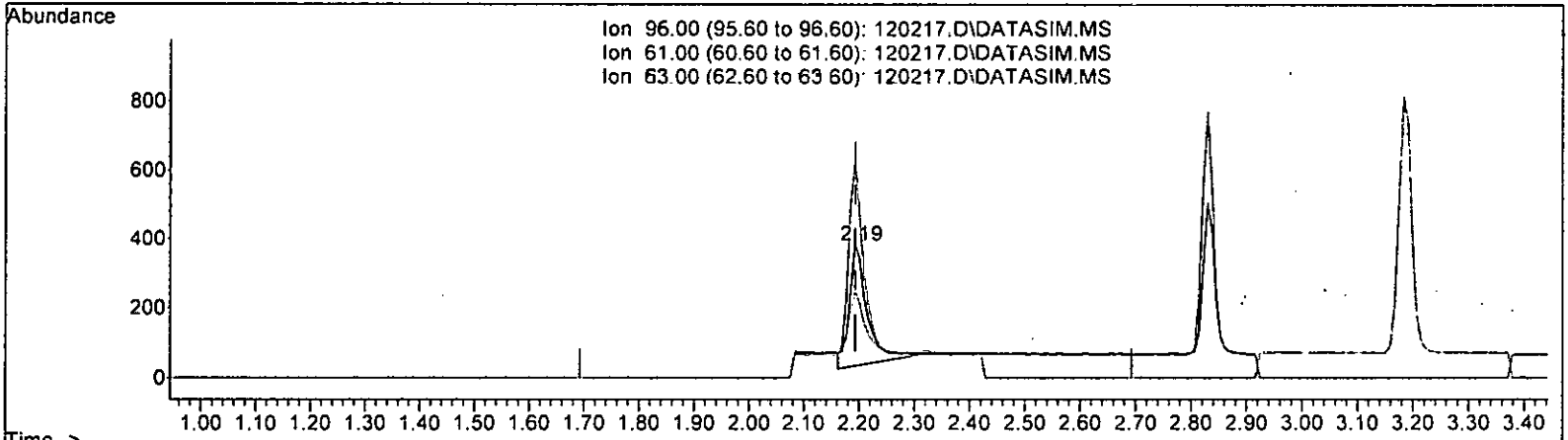
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	79.37#
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 0.674 ppb

response 780

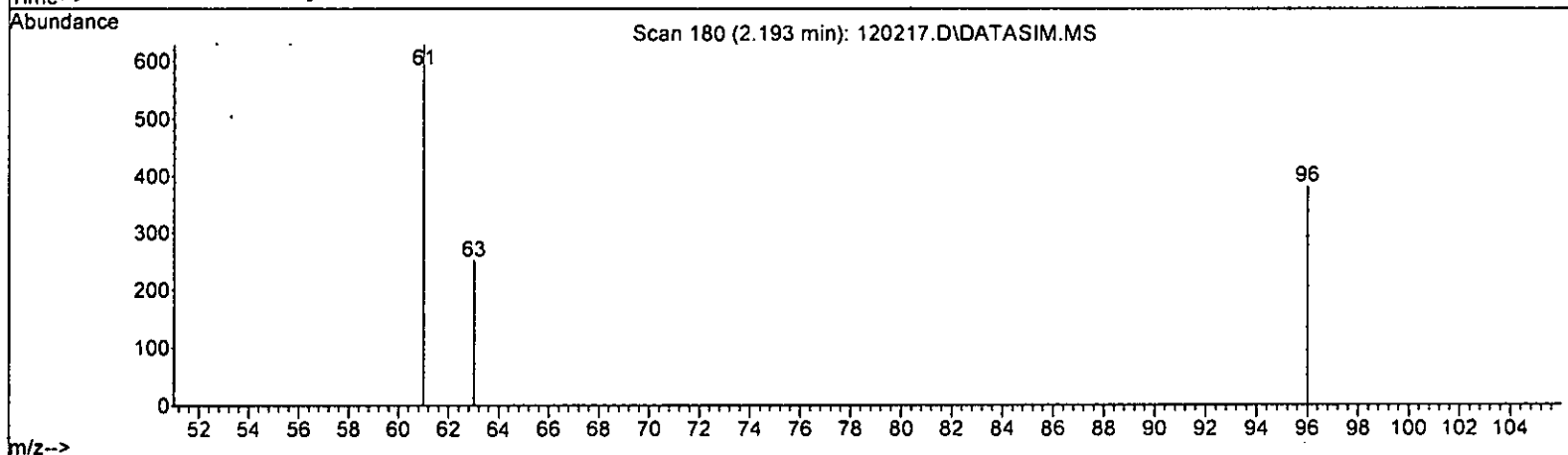
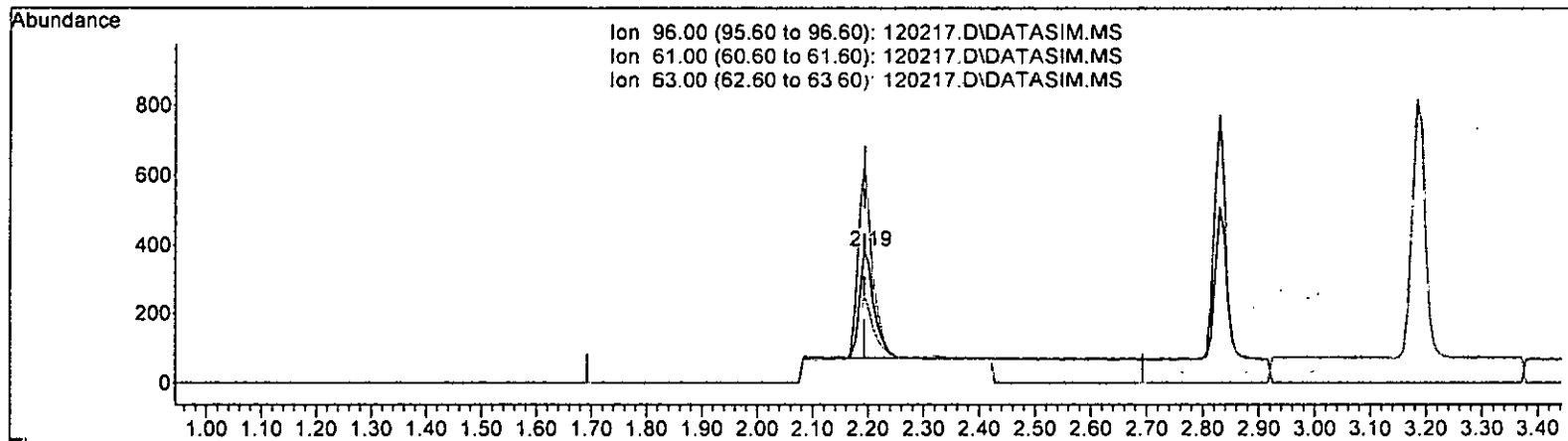
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	179.23#
63.00	55.30	56.55
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 0.486 ppb m

response 569

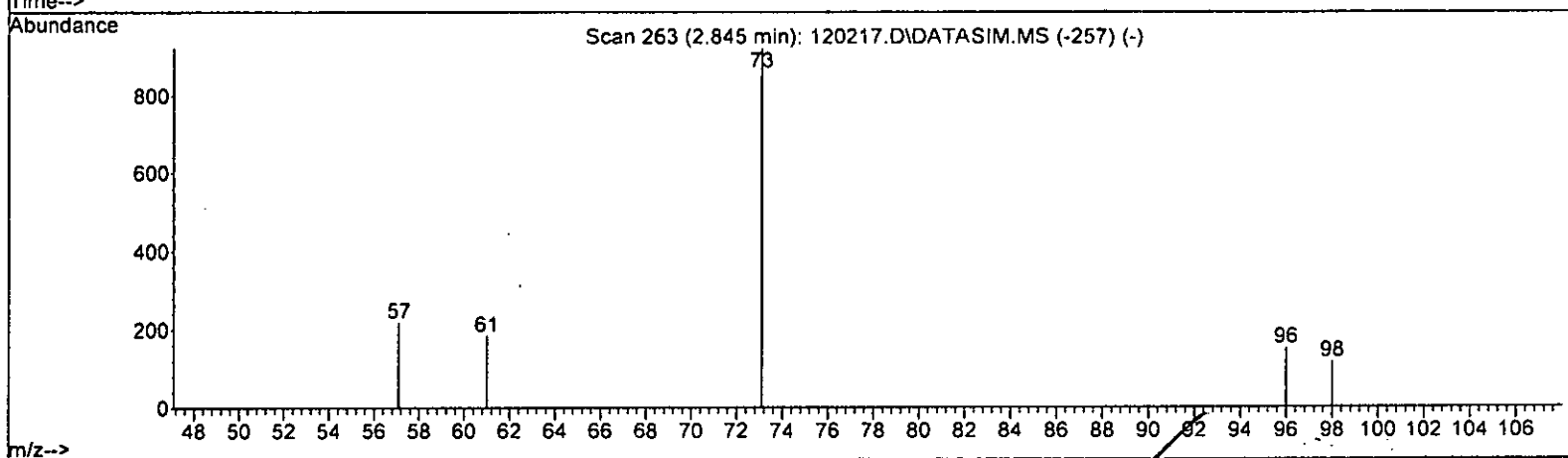
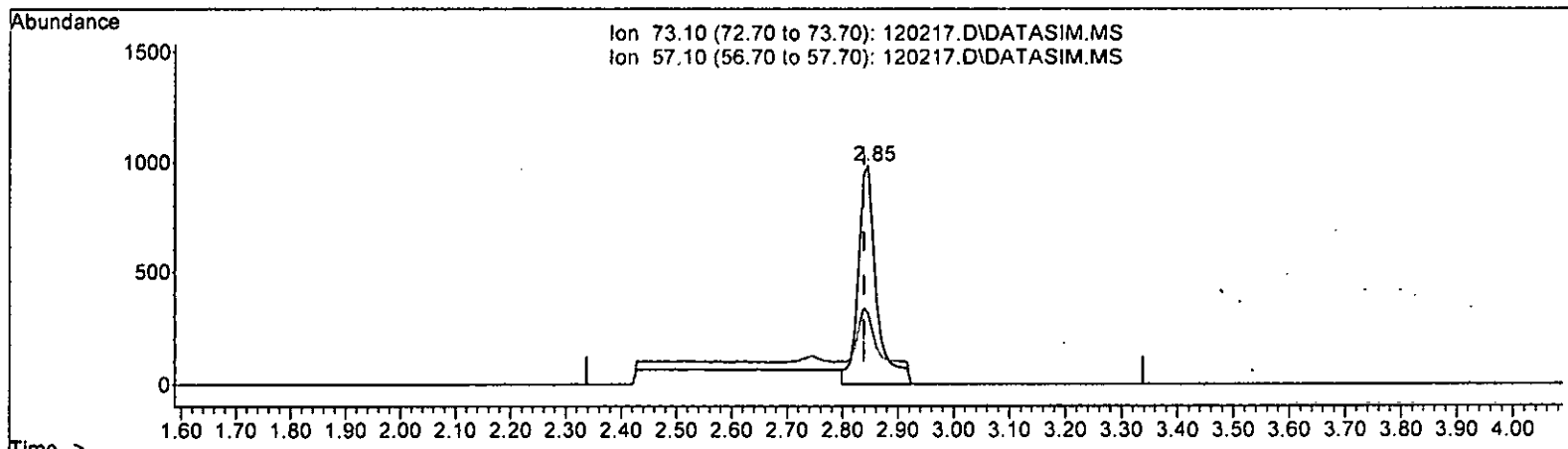
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	164.14
63.00	55.30	65.71
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.007) 0.638 ppb

response 2213

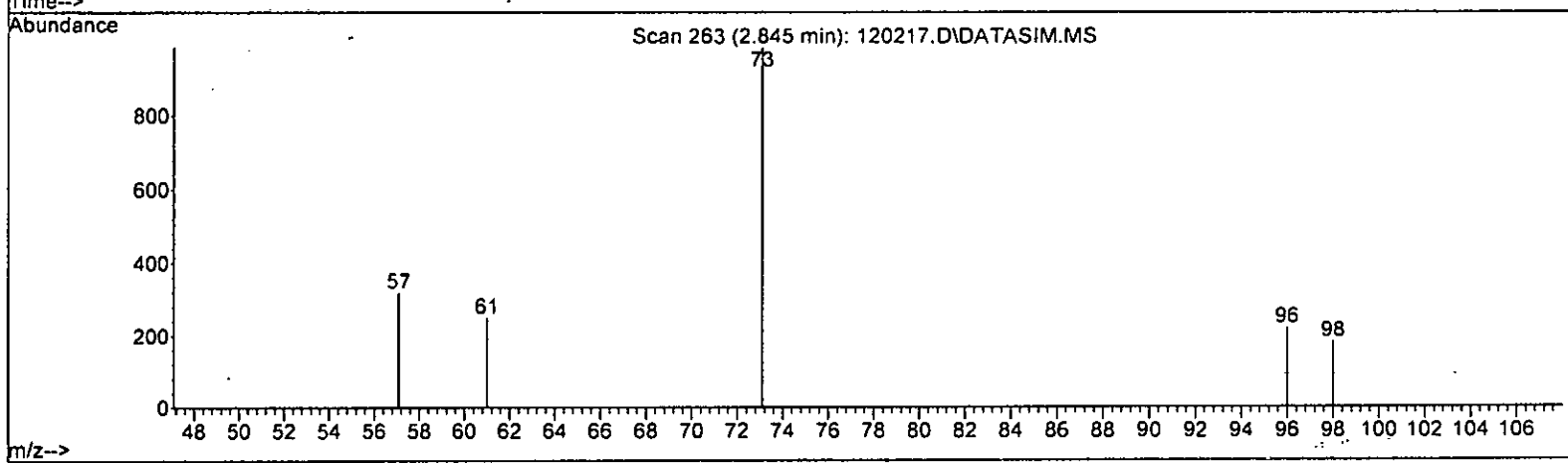
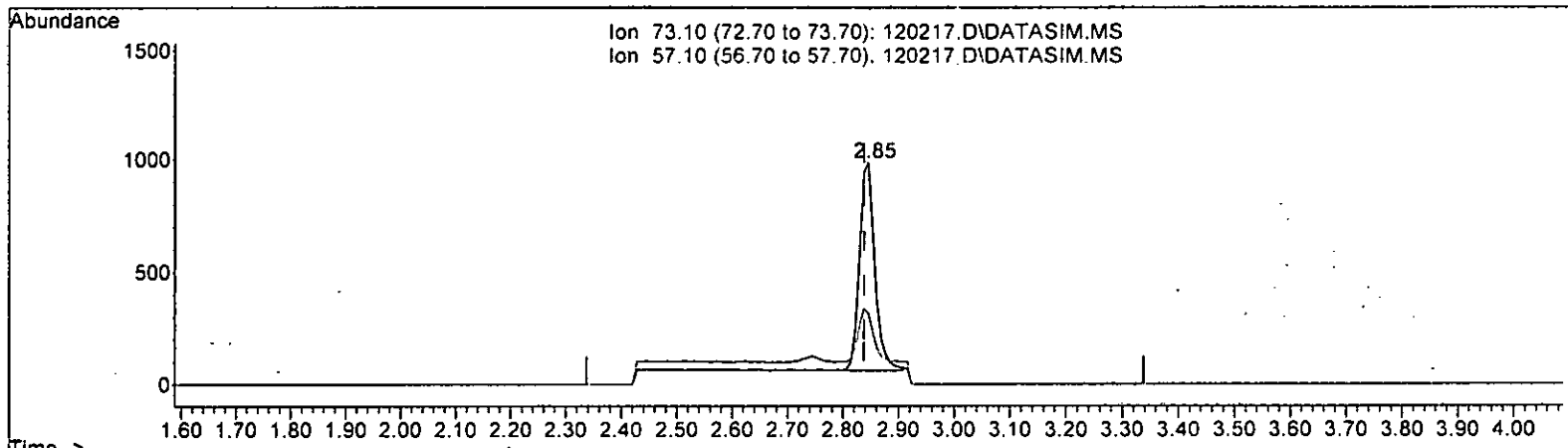
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	32.25
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note:* m 125

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP) M 12.5

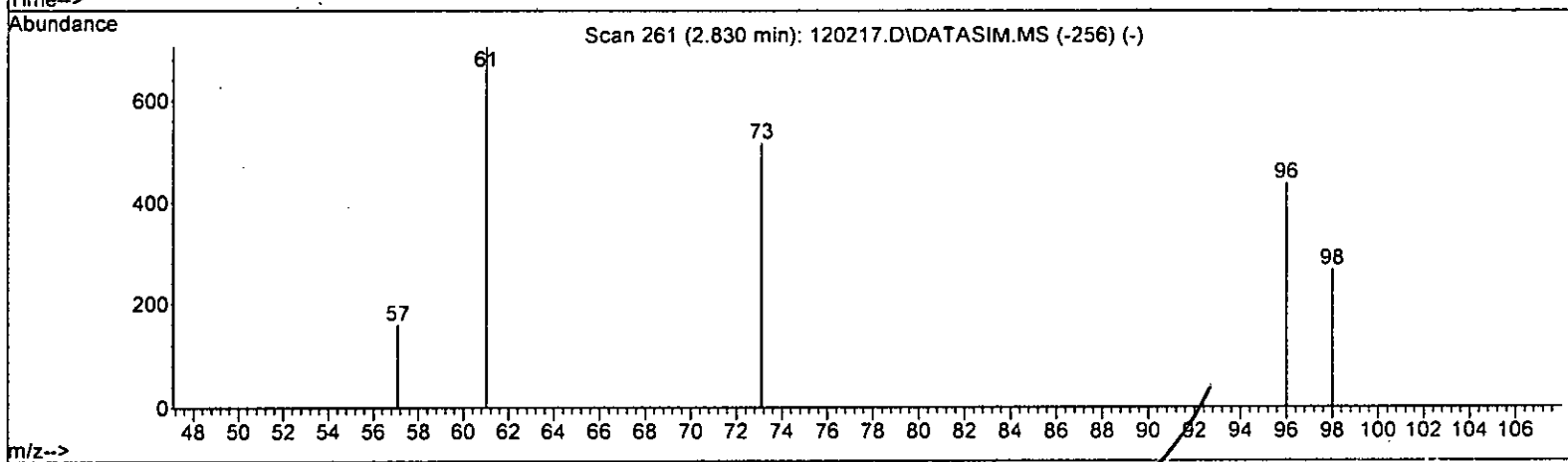
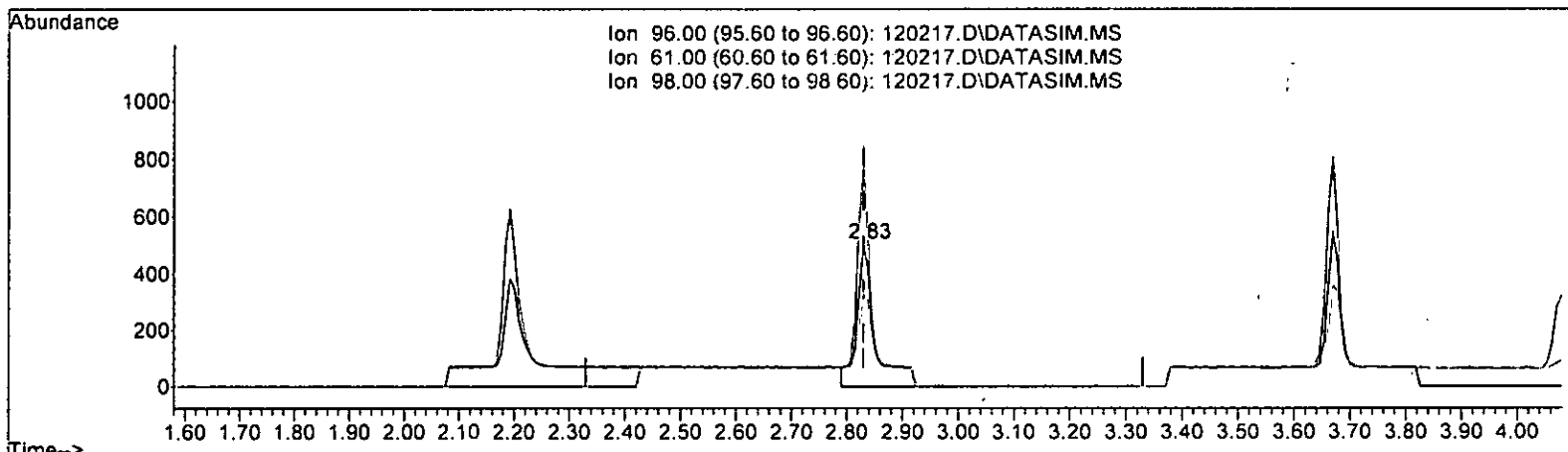
2.845min (+ 0.007) 0.507 ppb m

response	1771
Ion	Exp% Act%
73.10	100.00 100.00
57.10	26.70 32.25
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 0.915 ppb

response 1153

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	152.48
98.00	68.00	65.74
0.00	0.00	0.00

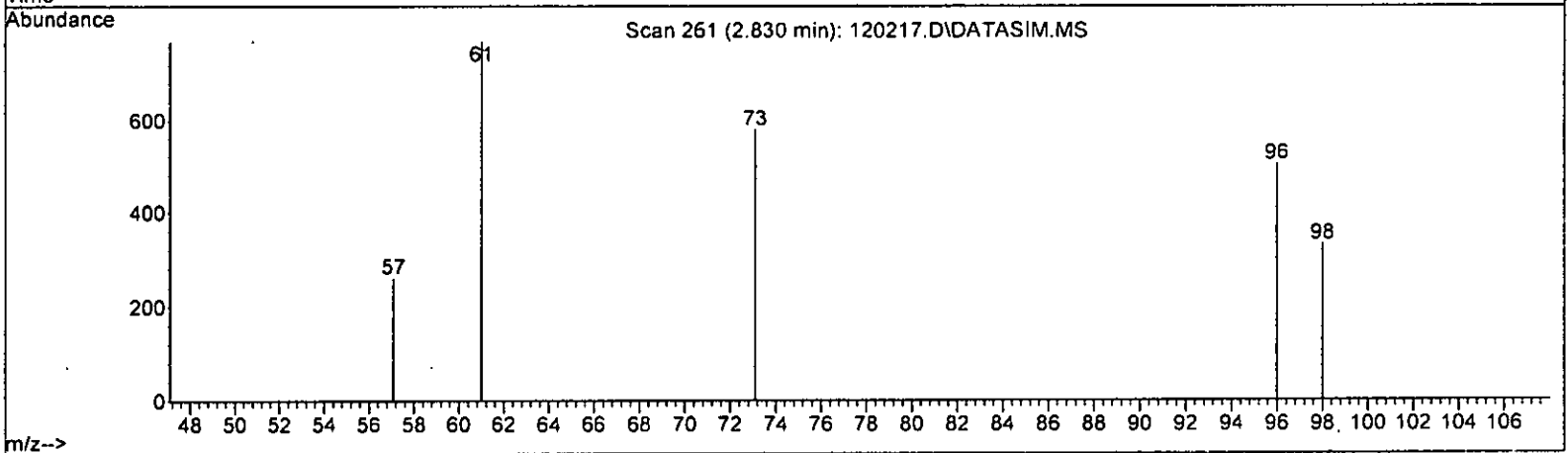
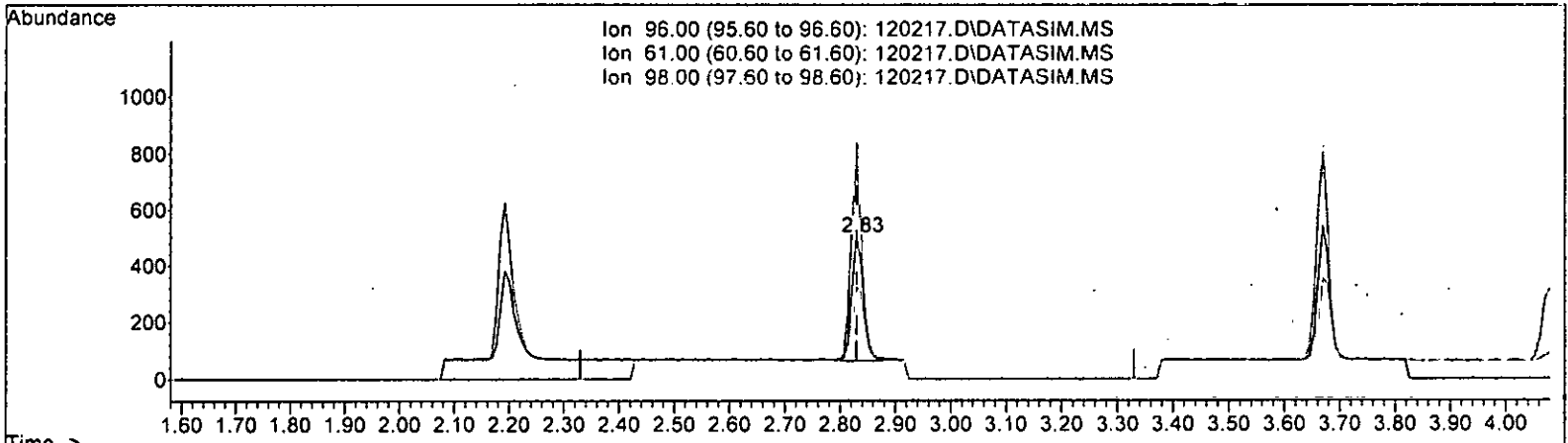
*M 12,5*



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 0.514 ppb m

response 666

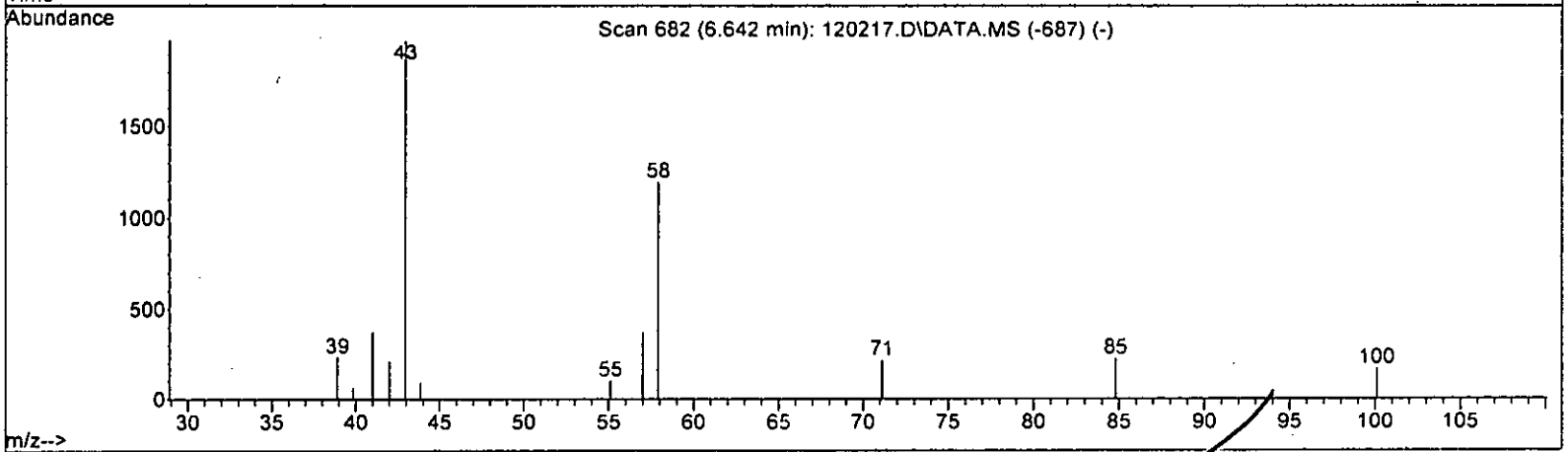
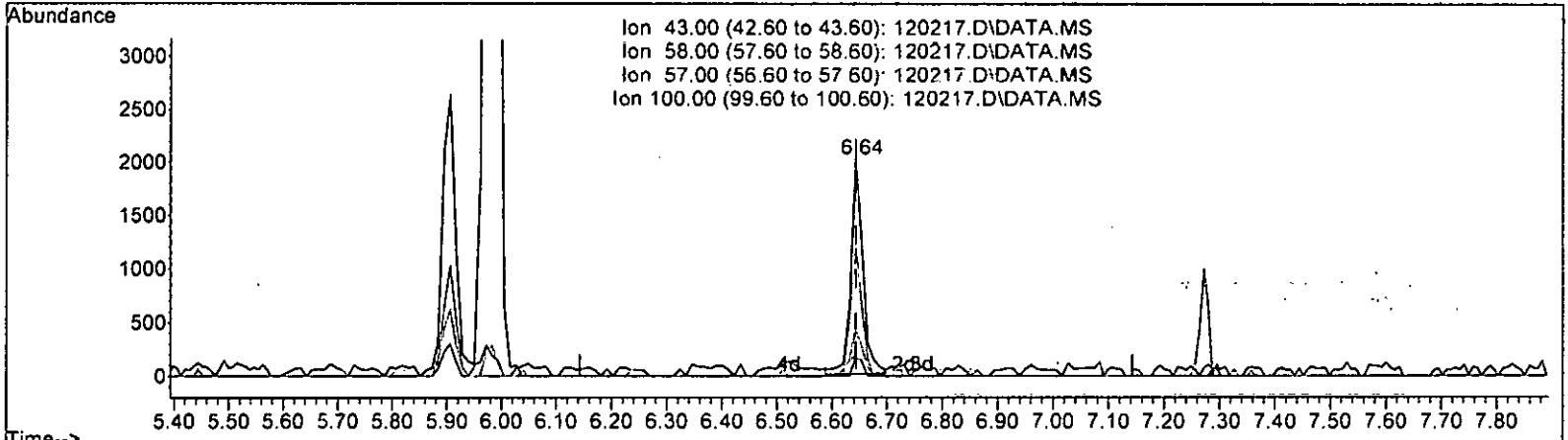
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	152.48
98.00	68.00	65.74
0.00	0.00	0.00

12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

(43) 2-Hexanone (TMP)

6.642min (-0.001) 2.745 ppb

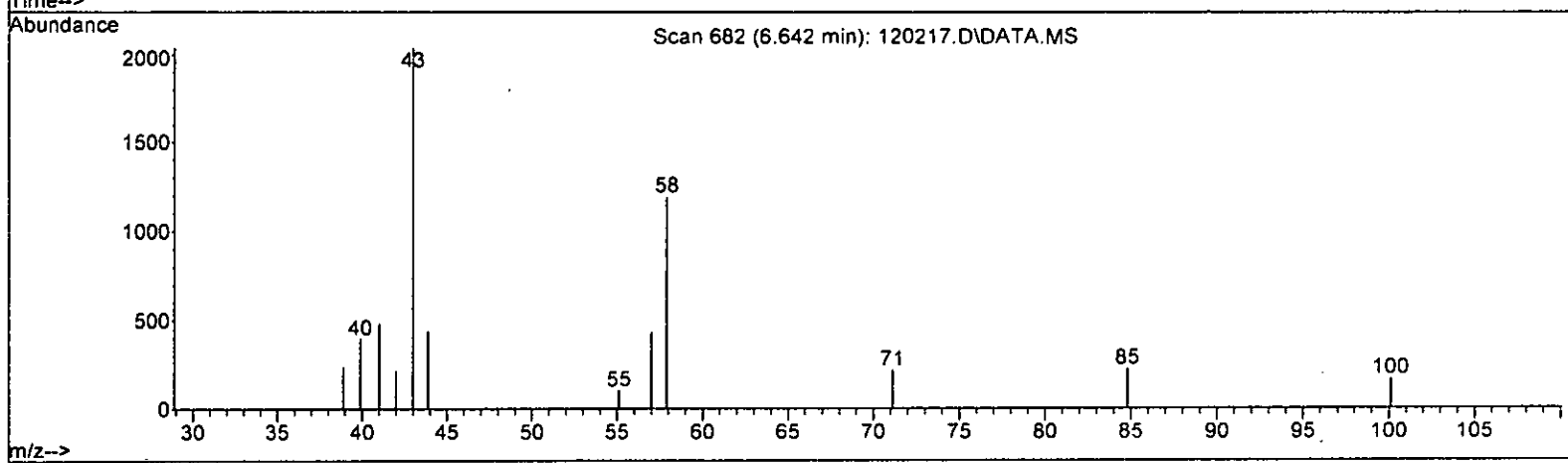
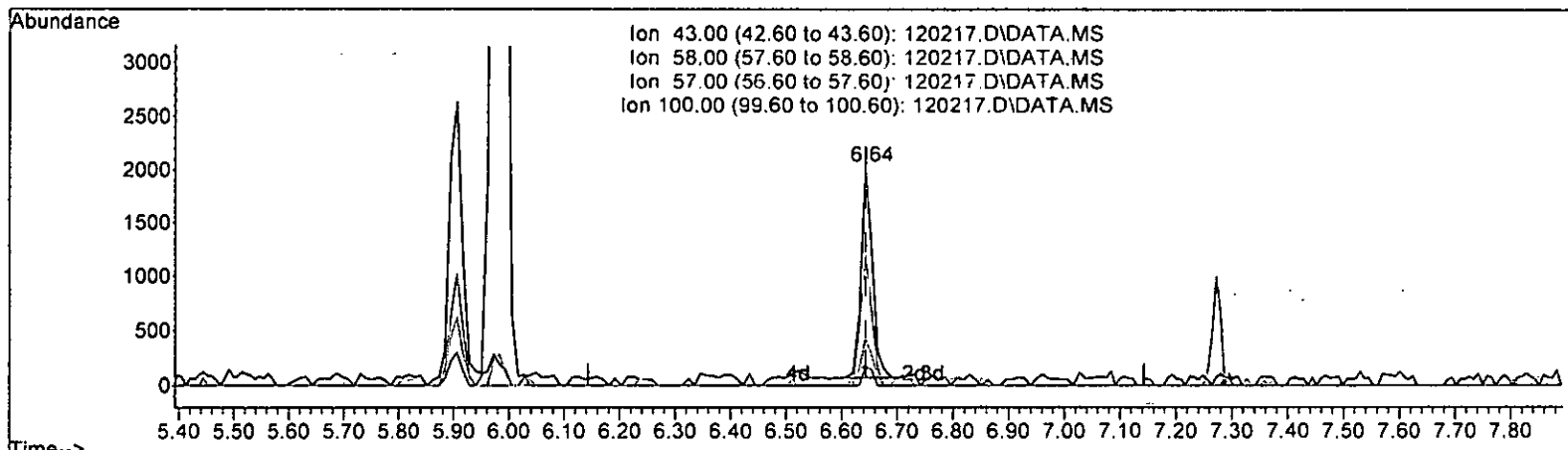
response	3056	
Ion	Exp%	Act%
43.00	100.00	100.00
58.00	56.00	60.15
57.00	21.00	21.72
100.00	10.90	8.38

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120217.D\DATA.MS

~ 12.5

(43) 2-Hexanone (TMP)			
6.642min (-0.001) 2.437 ppb m			
response	2714		
Ion	Exp%	Act%	
43.00	100.00	100.00	
58.00	56.00	58.47	
57.00	21.00	21.11	
100.00	10.90	8.15	

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM511\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.02
3 S Dibromofluoromethane	10.000	9.829	1.7	100	0.00
4 TMP Dichlorodifluoromethane	0.500	0.502	-0.4	100	0.00
5 TMP Chloromethane	0.500	0.533	-6.6	100	0.00
6 TMP Vinyl chloride	0.500	0.468	6.4	100	0.00
7 TMP Bromomethane	-1.000	-1.626	0.0	0	0.00
8 TMP Chloroethane	0.500	0.422	15.6	100	0.00
9 TMP Trichlorofluoromethane	0.500	0.458	8.4	100	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	2.500	3.127	-25.1#	100	0.00
12 TMP 1,1-Dichloroethene	0.500	0.486	2.8	100	0.00
13 TMP Hexane	0.500	0.547	-9.4	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	2.500	2.630	-5.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.500	0.507	-1.4	99	0.00
17 TMP trans-1,2-Dichloroethene	0.500	0.514	-2.8	103	0.00
18 TMP Diisopropyl ether (DIPE)	0.500	0.551	-10.2	100	0.00
19 TMP 1,1-Dichloroethane	0.500	0.514	-2.8	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.500	0.518	-3.6	100	0.00
21 TMP 2,2-Dichloropropane	0.500	0.448	10.4	100	0.00
22 TMP cis-1,2-Dichloroethene	0.500	0.507	-1.4	100	0.00
23 TMP Chloroform	0.500	0.507	-1.4	100	0.00
24 TMP 2-Butanone (MEK)	2.500	1.793	28.3#	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.500	0.497	0.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.500	0.500	0.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.500	0.497	0.6	100	0.00
28 TMP 1,1-Dichloropropene	0.500	0.526	-5.2	100	0.00
29 TMP Carbon tetrachloride	0.500	0.465	7.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.334	6.7	100	0.00
31 TMP Benzene	0.500	0.502	-0.4	100	0.00
32 TMP Trichloroethene	0.500	0.493	1.4	100	0.00
33 TMP 1,2-Dichloropropane	0.500	0.565	-13.0	100	0.00
34 TMP Bromodichloromethane	0.500	0.469	6.2	100	0.00
35 S Toluene-d8	10.000	9.619	3.8	100	0.00
36 TMP Dibromomethane	0.500	0.614	-22.8#	100	0.00
37 TMP 4-Methyl-2-pentanone	2.500	2.441	2.4	100	0.00
38 TMP cis-1,3-Dichloropropene	0.500	0.526	-5.2	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.500	0.507	-1.4	100	0.00
41 TMP trans-1,3-Dichloropropene	0.500	0.536	-7.2	100	0.00
42 TMP 1,1,2-Trichloroethane	0.500	0.497	0.6	100	0.00
43 TMP 2-Hexanone	2.500	2.437	2.5	89	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.500	0.546	-9.2	100	0.00
45 TMP Tetrachloroethene	0.500	0.495	1.0	100	0.00
46 TMP Dibromochloromethane	0.500	0.514	-2.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.500	0.504	-0.8	100	0.00
48 TMP Chlorobenzene	0.500	0.538	-7.6	100	0.00
49 TMP Ethylbenzene	0.500	0.526	-5.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.500	0.497	0.6	100	0.00
51 TMP m,p-Xylene	1.000	1.042	-4.2	100	0.00
52 TMP o-Xylene	0.500	0.518	-3.6	100	0.00
53 TMP Styrene	0.500	0.527	-5.4	100	0.00
54 TMP Isopropylbenzene	0.500	0.490	2.0	100	0.00
55 TMP Bromoform	0.500	0.492	1.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.046	-0.5	100	0.00
58 TMP n-Propylbenzene	0.500	0.528	-5.6	100	0.00
59 TMP Bromobenzene	0.500	0.584	-16.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.500	0.527	-5.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.500	0.595	-19.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.500	0.533	-6.6	100	0.00
63 TMP 2-Chlorotoluene	0.500	0.580	-16.0	100	0.00
64 TMP 4-Chlorotoluene	0.500	0.548	-9.6	100	0.00
65 TMP tert-Butylbenzene	0.500	0.516	-3.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.500	0.532	-6.4	100	0.00
67 TMP sec-Butylbenzene	0.500	0.510	-2.0	100	0.00
68 TMP p-Isopropyltoluene	0.500	0.512	-2.4	100	0.00
69 TMP 1,3-Dichlorobenzene	0.500	0.514	-2.8	100	0.00
70 TMP 1,4-Dichlorobenzene	0.500	0.567	-13.4	100	0.00
71 TMP 1,2-Dichlorobenzene	0.500	0.541	-8.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.500	0.481	3.8	100	0.00
74 TMP Hexachlorobutadiene	0.500	0.546	-9.2	100	0.00
75 TMP Naphthalene	0.500	0.478	4.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.500	0.449	10.2	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.02
3 S Dibromofluoromethane	0.264	0.259	1.9	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	1.323	-39.1#	100	0.00
6 TMP Vinyl chloride	0.862	0.742	13.9	100	0.00
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	0.00
8 TMP Chloroethane	0.341	0.335	1.8	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.823	8.5	100	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.039	-25.8#	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.249	8.1	100	0.00
13 TMP Hexane	0.469	0.725	-54.6#	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.049	-6.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.777	4.3	99	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.292	7.0	103	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	1.051	-10.3	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.529	3.3	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.318	-3.6	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.381	-9.8	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.310	5.8	100	0.00
23 TMP Chloroform	0.477	0.484	-1.5	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.221	-27.7#	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.734	0.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.425	11.3	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.472	4.5	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.388	-5.4	100	0.00
29 TMP Carbon tetrachloride	0.396	0.368	7.1	100	0.00
30 5 1,2-Dichloroethane-d4	0.060	0.056	6.7	100	0.00
31 TMP Benzene	1.103	1.055	4.4	100	0.00
32 TMP Trichloroethene	0.368	0.332	9.8	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.356	-13.0	100	0.00
34 TMP Bromodichloromethane	0.375	0.352	6.1	100	0.00
35 S Toluene-d8	0.975	0.938	3.8	100	0.00
36 TMP Dibromomethane	0.181	0.223	-23.2#	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.053	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.466	-5.2	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.920	6.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.545	-7.3	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.288	-1.1	100	0.00
43 TMP 2-Hexanone	0.312	0.304	2.6	89	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.529	-9.3	100	0.00
45 TMP Tetrachloroethene	0.420	0.361	14.0	100	0.00
46 TMP Dibromochloromethane	0.366	0.377	-3.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.346	8.7	100	0.00
48 TMP Chlorobenzene	0.957	1.031	-7.7	100	0.00
49 TMP Ethylbenzene	1.885	1.787	5.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.356	0.6	100	0.00
51 TMP m,p-Xylene	0.705	0.672	4.7	100	0.00
52 TMP o-Xylene	0.683	0.653	4.4	100	0.00
53 TMP Styrene	1.004	1.058	-5.4	100	0.00
54 TMP Isopropylbenzene	1.606	1.575	1.9	100	0.00
55 TMP Bromoform	0.269	0.265	1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.868	-0.5	100	0.00
58 TMP n-Propylbenzene	3.386	3.575	-5.6	100	0.00
59 TMP Bromobenzene	0.790	0.922	-16.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.616	-5.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.872	-19.0	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.638	-6.5	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.383	-16.0	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.583	-9.7	100	0.00
65 TMP tert-Butylbenzene	2.194	2.265	-3.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.737	-6.3	100	0.00
67 TMP sec-Butylbenzene	3.160	3.226	-2.1	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.770	-2.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.511	-2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.697	-13.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.471	-8.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.000#	100.0#	0#	-10.64#
73 TMP 1,2,4-Trichlorobenzene	0.978	0.942	3.7	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.563	-9.1	100	0.00
75 TMP Naphthalene	2.401	2.294	4.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.795	10.2	100	0.00

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	45613	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35739	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19562	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11816	9.829	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.30%
30) 1,2-Dichloroethane-d4	4.36	102	2538	9.334	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	93.30%
35) Toluene-d8	5.98	98	42796	9.619	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	96.20%
57) 4-Bromofluorobenzene	8.38	95	16981	10.046	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	1.88	45	72	No Calib		
4) Dichlorodifluoromethane	1.09	85	1628	0.502	ppb	96
5) Chloromethane	1.23	50	3017	0.533	ppb	99
6] Vinyl chloride	1.30	62	1692m	0.468	ppb	
7) Bromomethane	1.55	94	1667	Below Cal	#	51
8] Chloroethane	1.61	64	763m	0.422	ppb	
9) Trichlorofluoromethane	1.80	101	1877m	0.458	ppb	
10) 2-Propanol	2.41	45	290	No Calib		
11) Acetone	2.27	58	445	3.127	ppb	97
12] 1,1-Dichloroethene	2.19	96	569m	0.486	ppb	
13) Hexane	3.05	57	1654	0.547	ppb	85
14) Methylene chloride	0.00		0	N.D.	d	
15) t-Butyl alcohol (TBA)	2.75	59	555	2.630	ppb	98
16] Methyl t-butyl ether (...)	2.85	73	1771m	0.507	ppb	
17] trans-1,2-Dichloroethene	2.83	96	666m	0.514	ppb	
18) Diisopropyl ether (DIPE)	3.25	45	2396	0.551	ppb	85
19] 1,1-Dichloroethane	3.18	63	1207	0.514	ppb	96
20) Ethyl t-butyl ether (E...)	3.55	87	726	0.518	ppb	88
21) 2,2-Dichloropropane	3.67	77	869	0.448	ppb	90
22] cis-1,2-Dichloroethene	3.67	96	707	0.507	ppb	93
23) Chloroform	3.94	83	1103	0.507	ppb	92
24) 2-Butanone (MEK)	3.71	43	2516	1.793	ppb	95
25) t-Amyl methyl ether (T...)	4.50	73	1674	0.497	ppb	90
26] 1,2-Dichloroethane (EDC)	4.42	62	969	0.500	ppb	96
27] 1,1,1-Trichloroethane	4.08	97	1076	0.497	ppb	95
28) 1,1-Dichloropropene	4.22	75	884	0.526	ppb	73
29) Carbon tetrachloride	4.21	117	840	0.465	ppb	95
31] Benzene	4.39	78	2405	0.502	ppb	93
32] Trichloroethene	4.93	95	758	0.493	ppb	95
33] 1,2-Dichloropropane	5.13	63	811	0.565	ppb	# 100
34) Bromodichloromethane	5.37	83	802	0.469	ppb	69
36) Dibromomethane	5.23	93	508	0.614	ppb	83



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

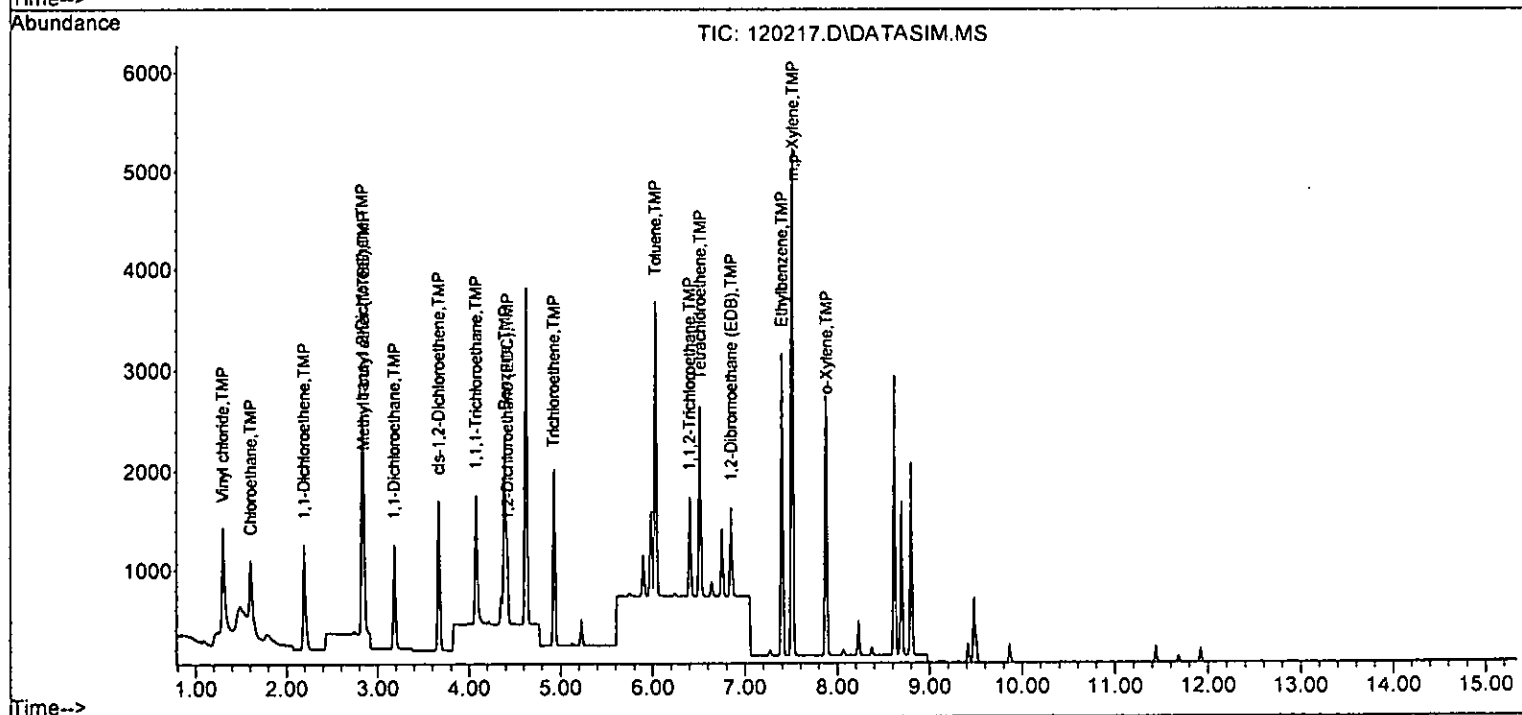
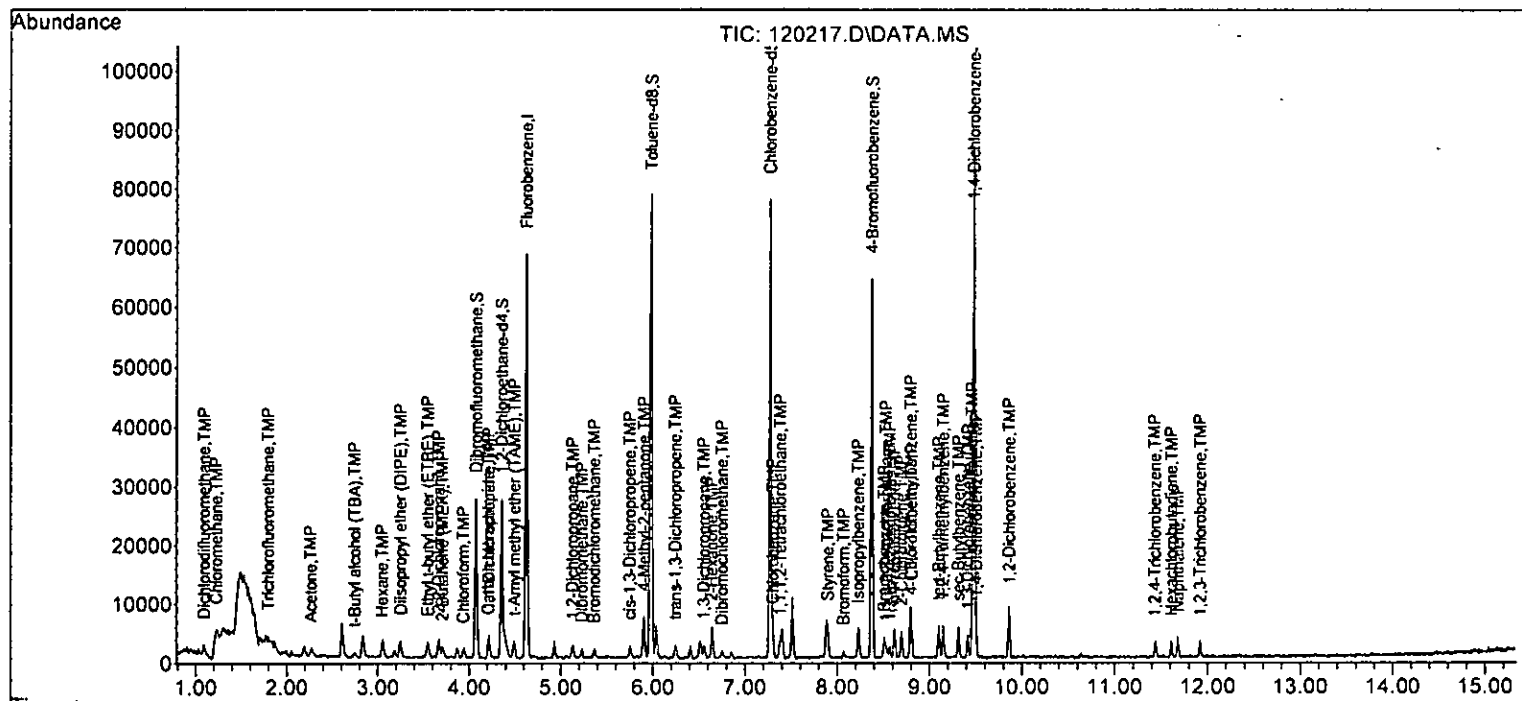
Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	603	2.441	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	1063	0.526	ppb	96
40] Toluene	6.03	92	1644	0.507	ppb	97
41) trans-1,3-Dichloropropene	6.25	75	973	0.536	ppb	81
42] 1,1,2-Trichloroethane	6.40	83	514	0.497	ppb	96
43) 2-Hexanone	6.64	43	2714m	2.437	ppb	
44) 1,3-Dichloropropane	6.55	76	946	0.546	ppb	76
45] Tetrachloroethene	6.51	164	645	0.495	ppb	99
46) Dibromochloromethane	6.75	129	673	0.514	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	619	0.504	ppb	100
48) Chlorobenzene	7.30	112	1842	0.538	ppb	90
49] Ethylbenzene	7.40	91	3194	0.526	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	636	0.497	ppb #	60
51] m,p-Xylene	7.52	106	2403	1.042	ppb #	74
52] o-Xylene	7.88	106	1167	0.518	ppb	96
53) Styrene	7.90	104	1890	0.527	ppb	90
54) Isopropylbenzene	8.23	105	2815	0.490	ppb	89
55) Bromoform	8.07	173	473	0.492	ppb	95
58) n-Propylbenzene	8.62	91	3497	0.528	ppb	86
59) Bromobenzene	8.51	156	902	0.584	ppb	86
60) 1,3,5-Trimethylbenzene	8.80	105	2559	0.527	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.53	83	853	0.595	ppb	91
62) 1,2,3-Trichloropropane	8.57	75	624	0.533	ppb	81
63) 2-Chlorotoluene	8.70	91	2331	0.580	ppb	99
64) 4-Chlorotoluene	8.81	91	2526	0.548	ppb	87
65) tert-Butylbenzene	9.10	119	2215	0.516	ppb	93
66) 1,2,4-Trimethylbenzene	9.15	105	2677	0.532	ppb	84
67) sec-Butylbenzene	9.31	105	3155	0.510	ppb	85
68) p-Isopropyltoluene	9.46	119	2709	0.512	ppb	89
69) 1,3-Dichlorobenzene	9.42	146	1478	0.514	ppb	95
70) 1,4-Dichlorobenzene	9.51	146	1660	0.567	ppb	86
71) 1,2-Dichlorobenzene	9.86	146	1439	0.541	ppb	96
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.44	180	921	0.481	ppb #	70
74) Hexachlorobutadiene	11.61	225	551	0.546	ppb	89
75) Naphthalene	11.68	128	2244	0.478	ppb	89
76) 1,2,3-Trichlorobenzene	11.92	180	778	0.449	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120217.D  
 Acq On : 02 Dec 2022 10:53 pm  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-4J  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCM511

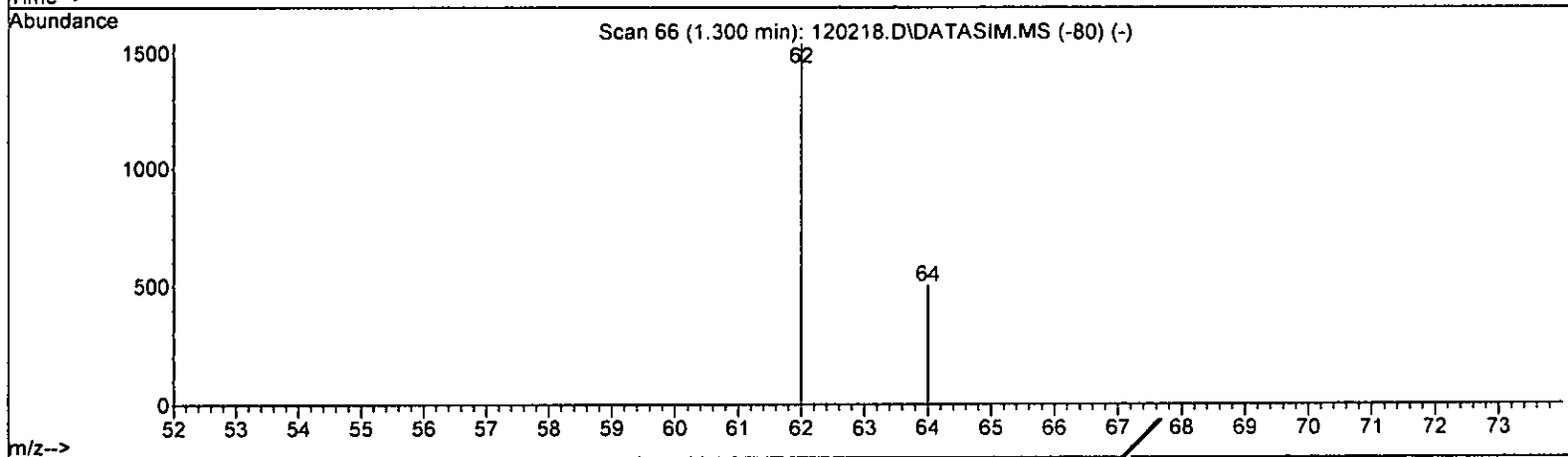
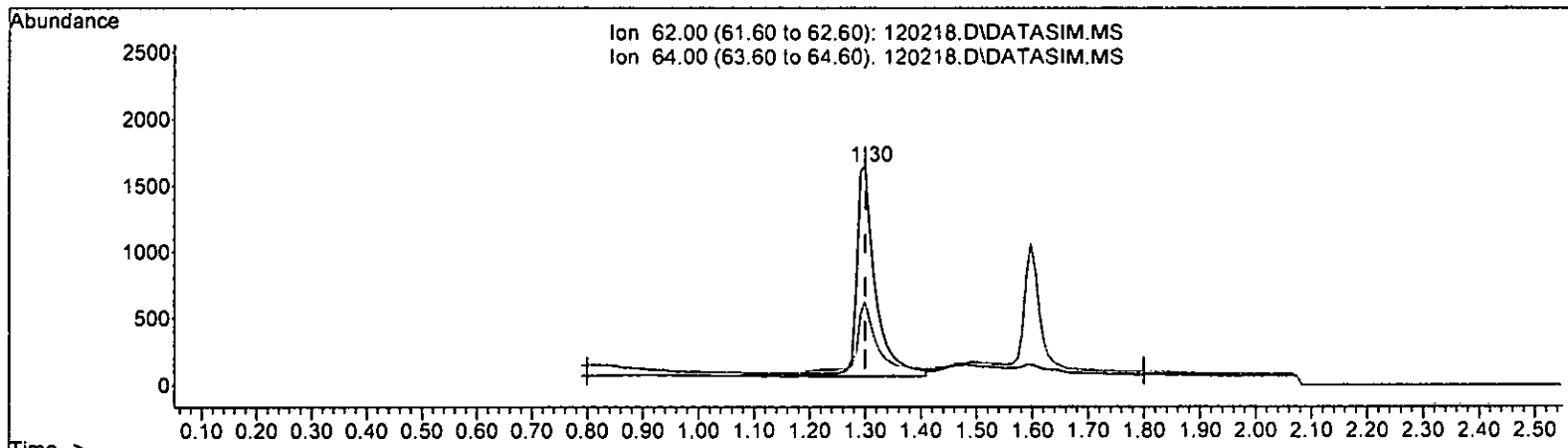
Quant Time: Dec 05 13:17:33 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 1.081 ppb

response 3679

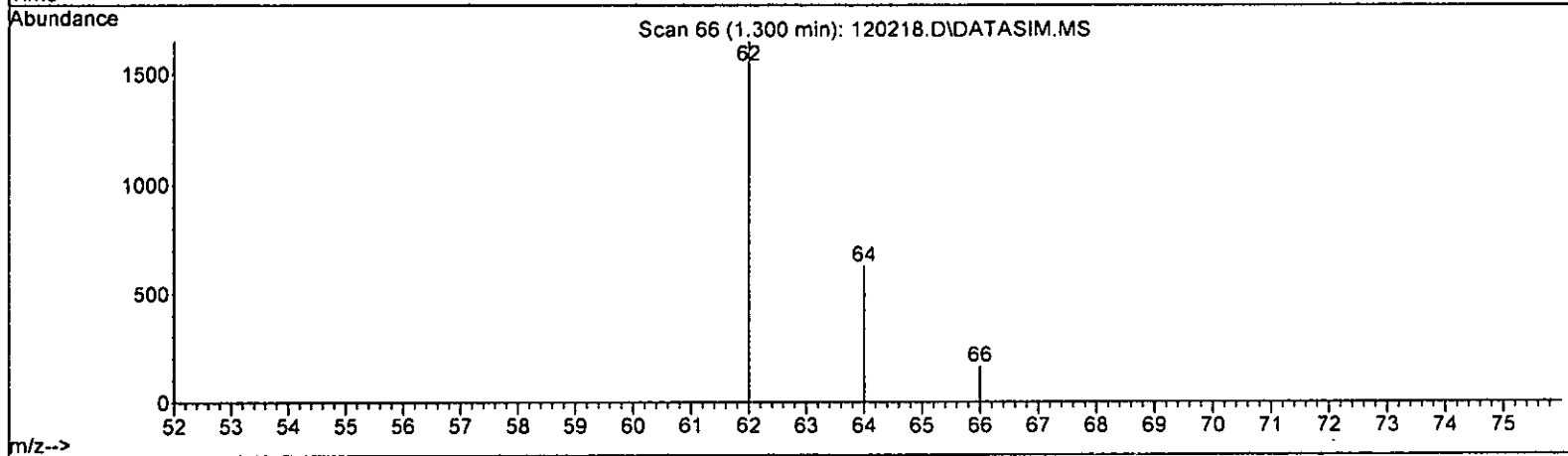
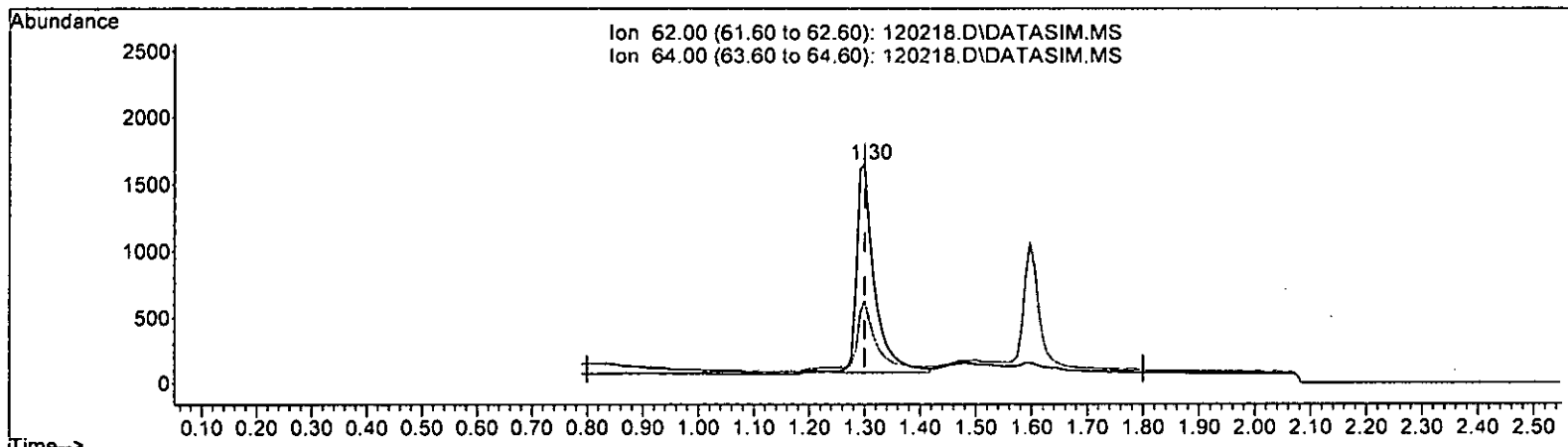
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	34.20
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 120218.D\DATA.MS

(6) Vinyl chloride (TMP)

1.300min (-0.000) 1.023 ppb m

response 3487

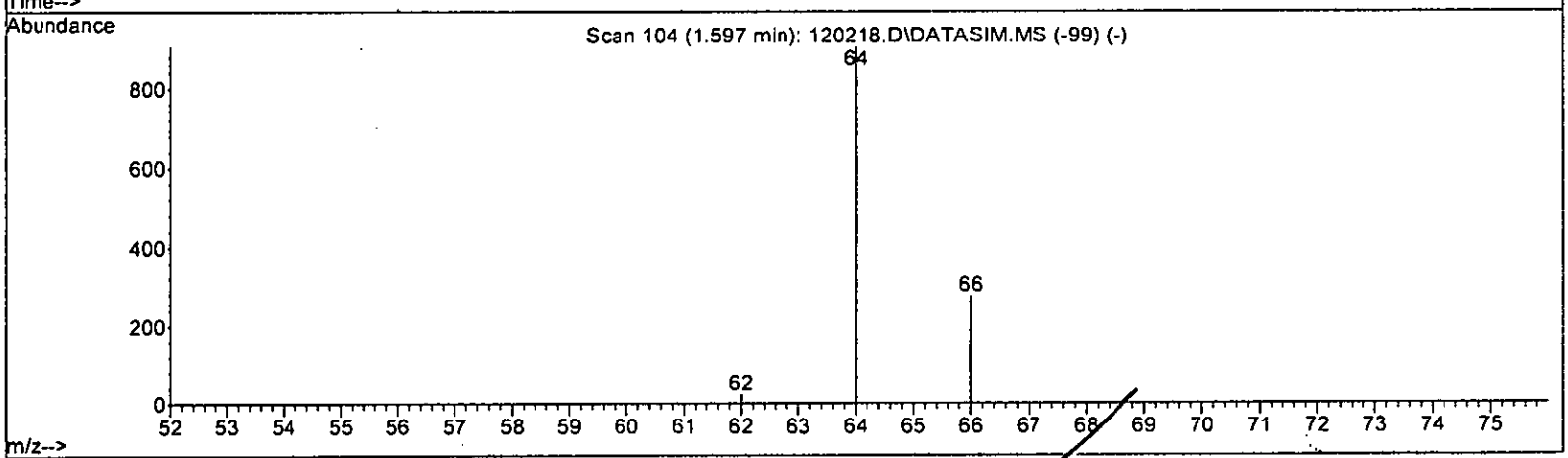
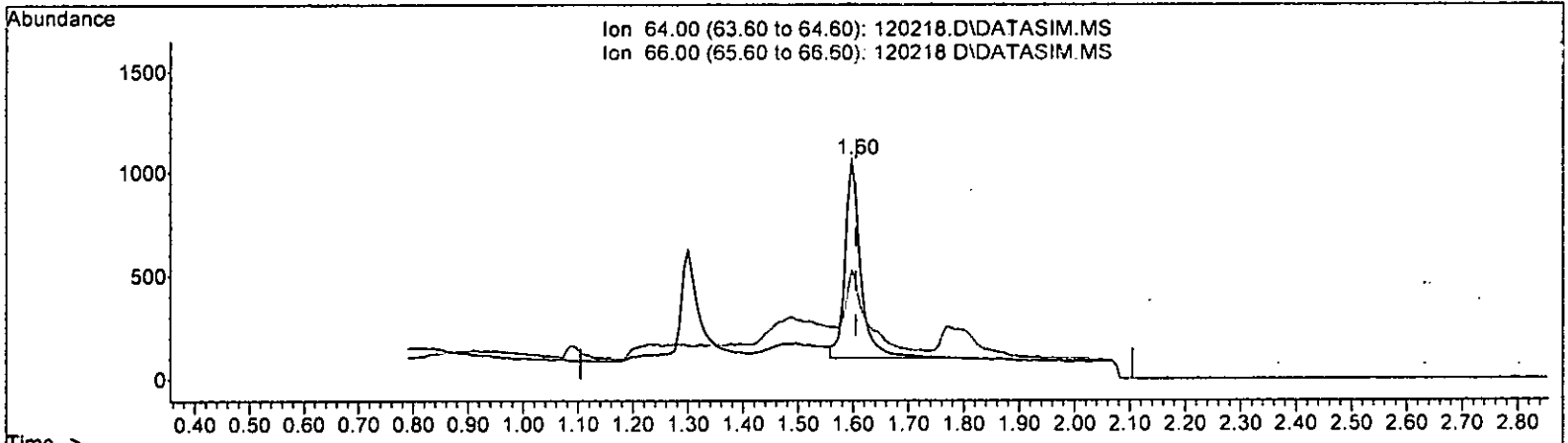
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	34.30	38.07
0.00	0.00	0.00
0.00	0.00	0.00

*m 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(8) Chloroethane (TMP)

1.597min (-0.008) 1.201 ppb

response 1884

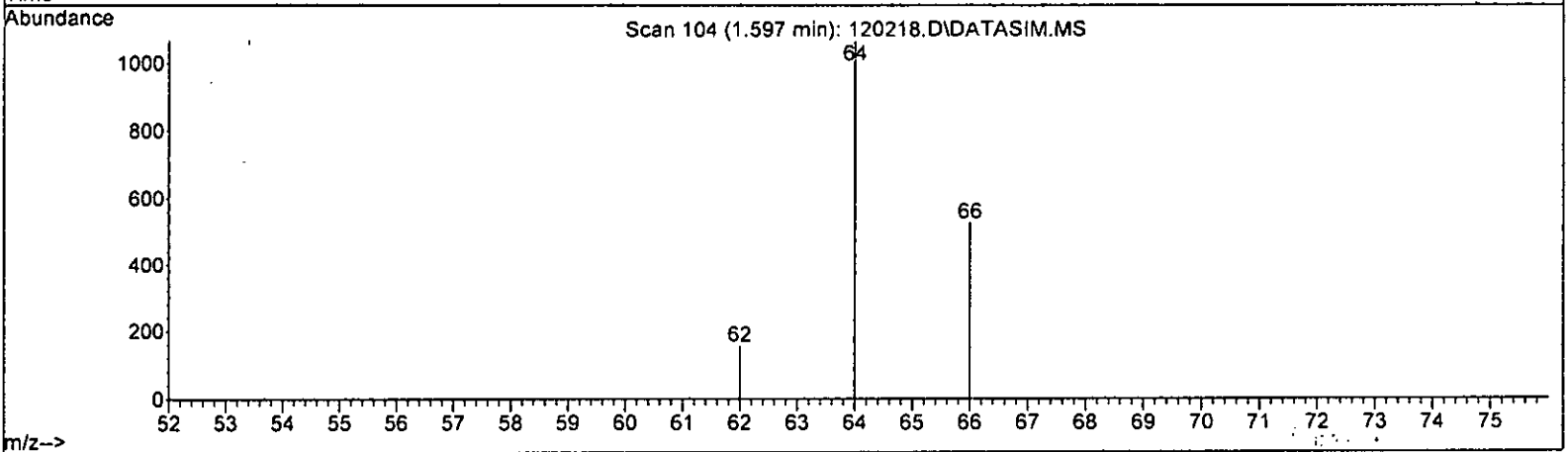
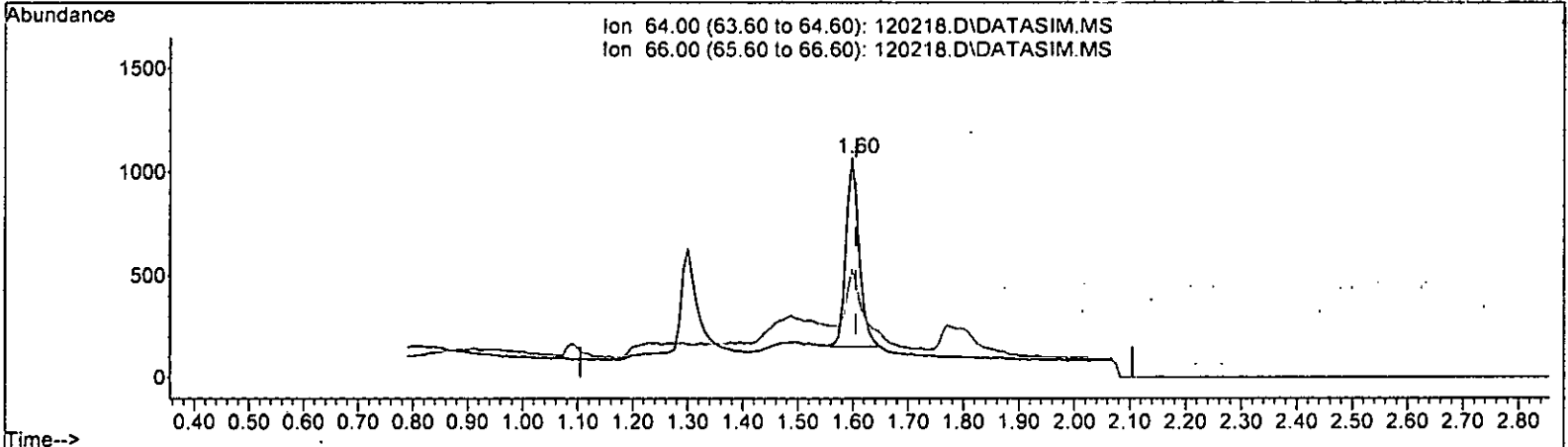
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	28.76
0.00	0.00	0.00
0.00	0.00	0.00

M 12.5

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

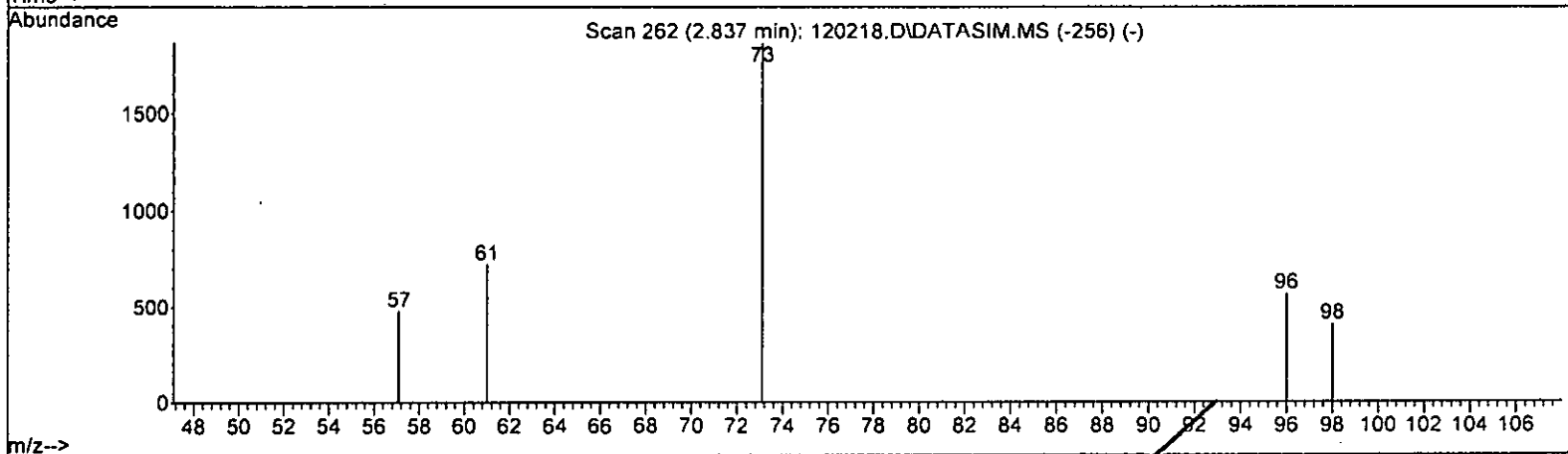
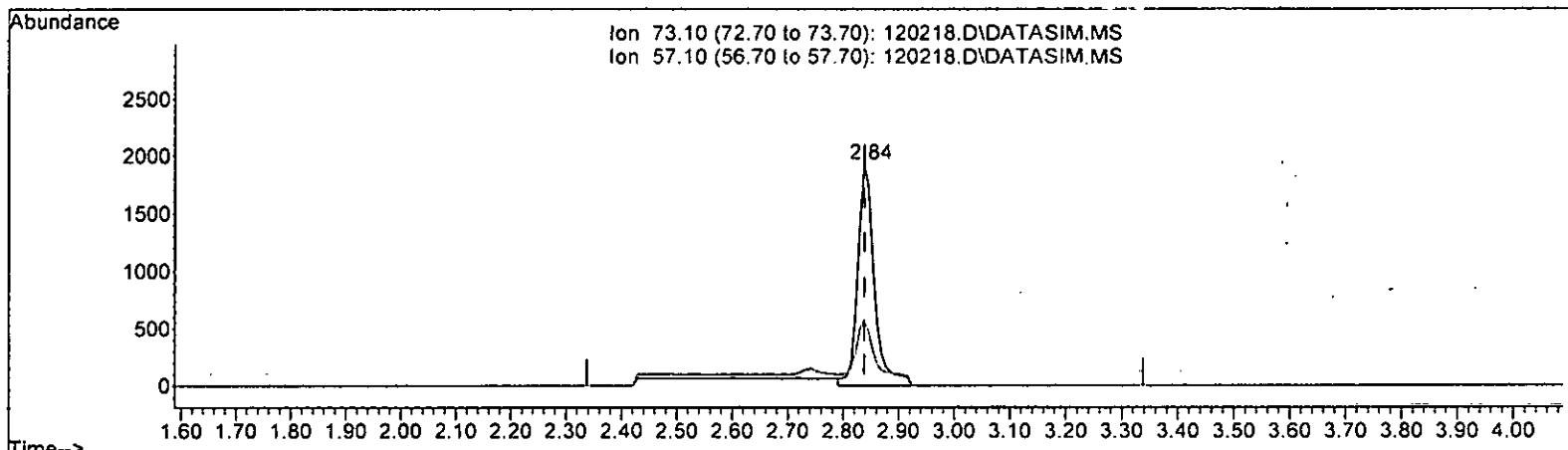
m 12.5

(8) Chloroethane (TMP)			
1.597min (-0.008) 0.960 ppb m			
response	1531		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	41.10	49.25	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 1.201 ppb

response 3999

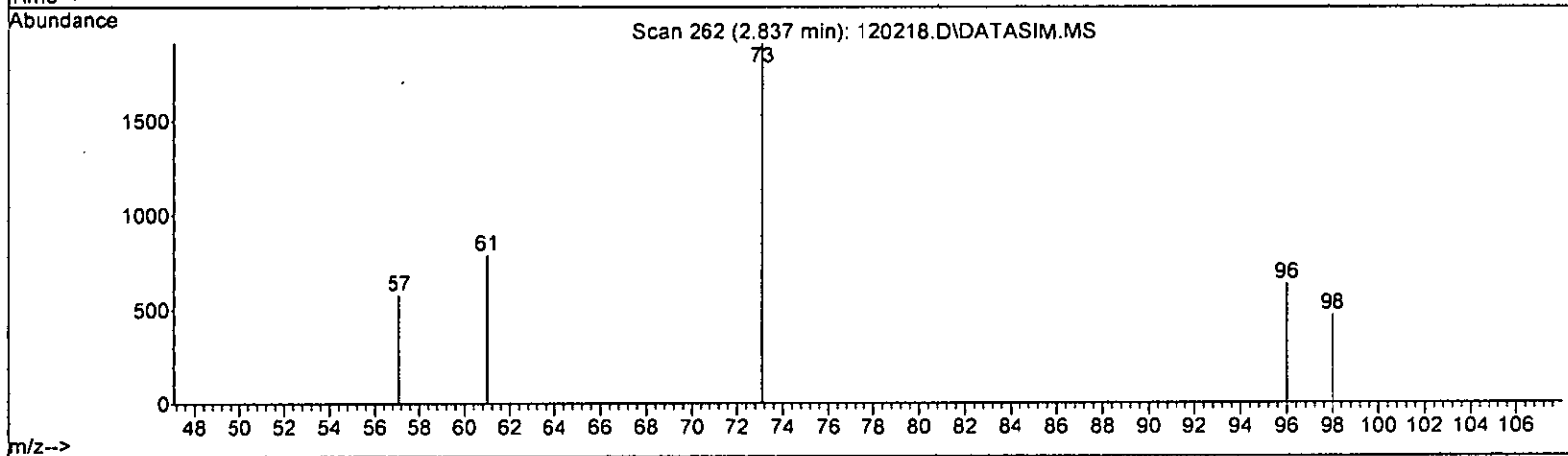
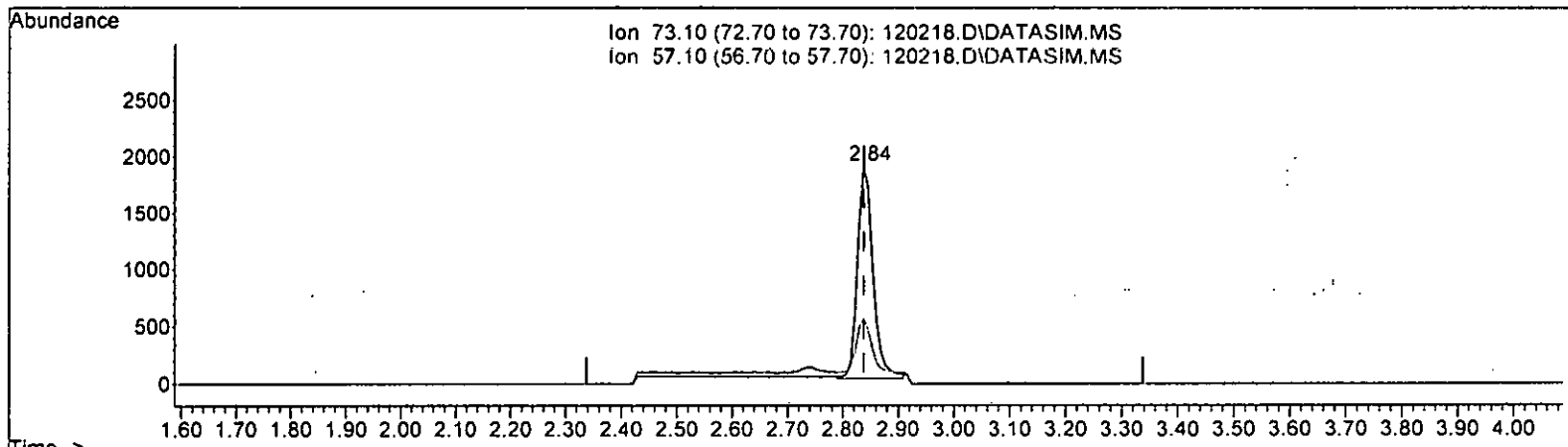
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	29.89
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 1.086 ppb m

response 3623

Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	29.89
0.00	0.00	0.00
0.00	0.00	0.00

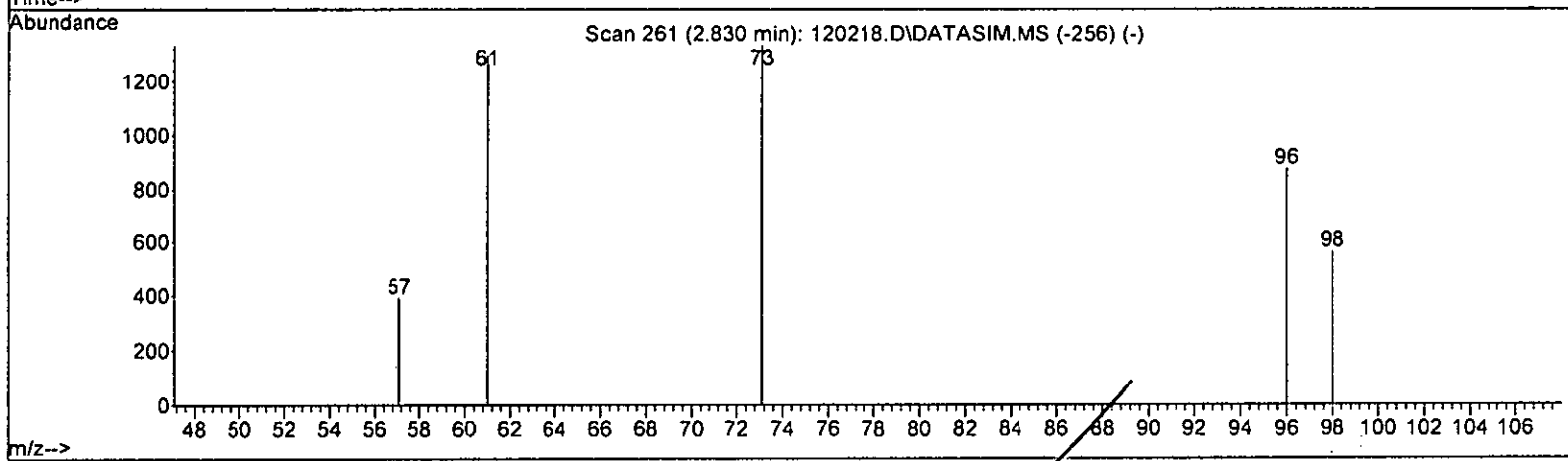
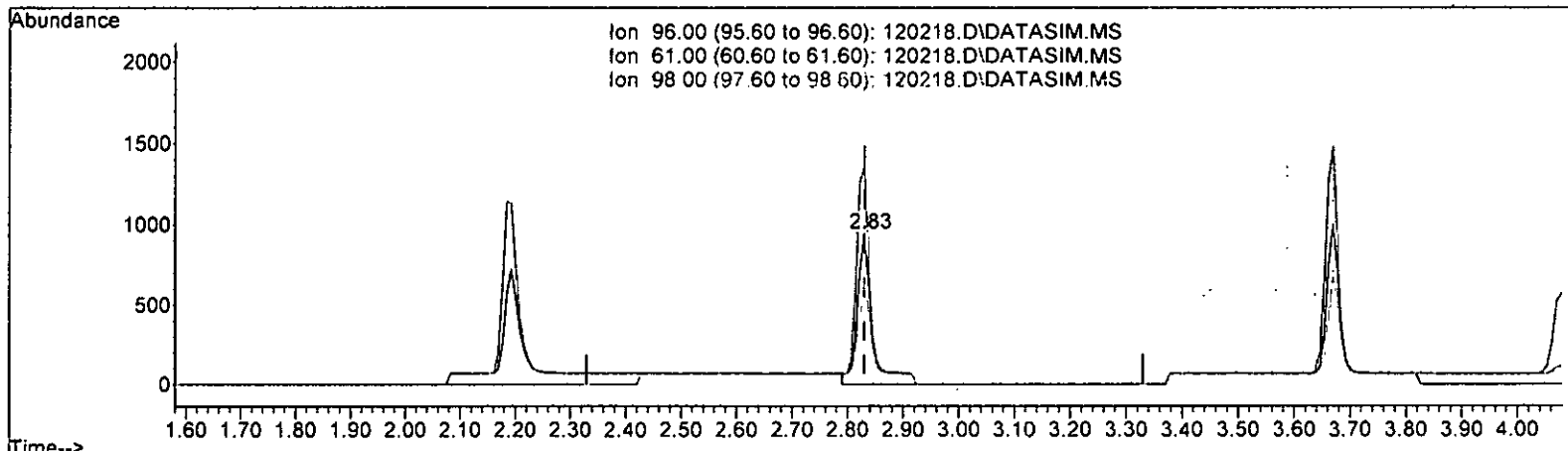
*m* 12.5



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 1.460 ppb

response 1767

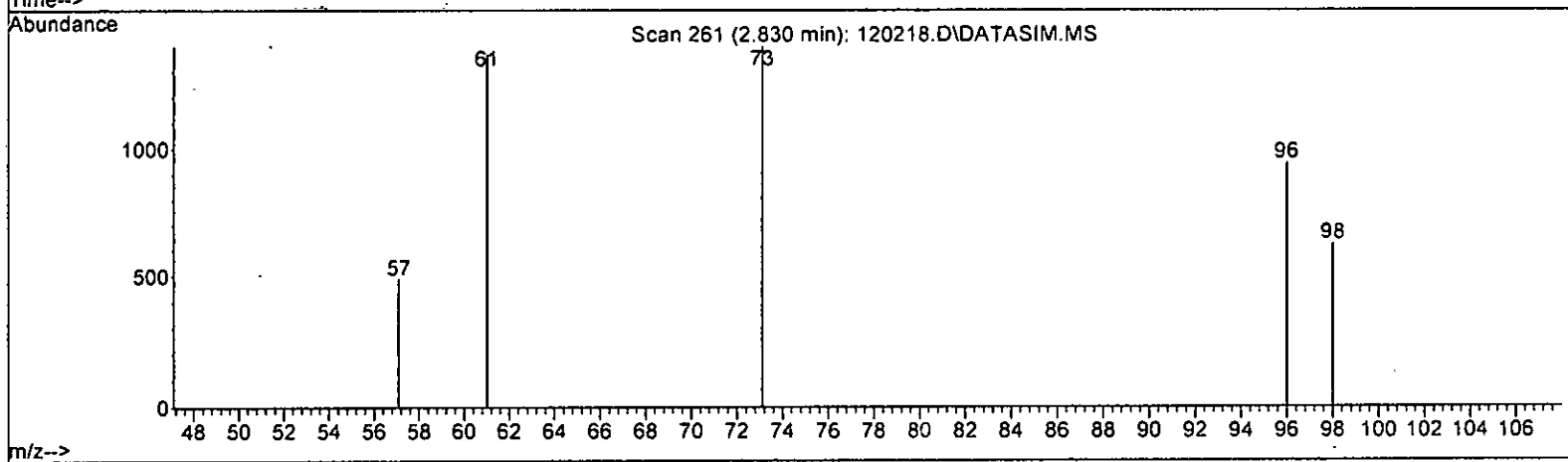
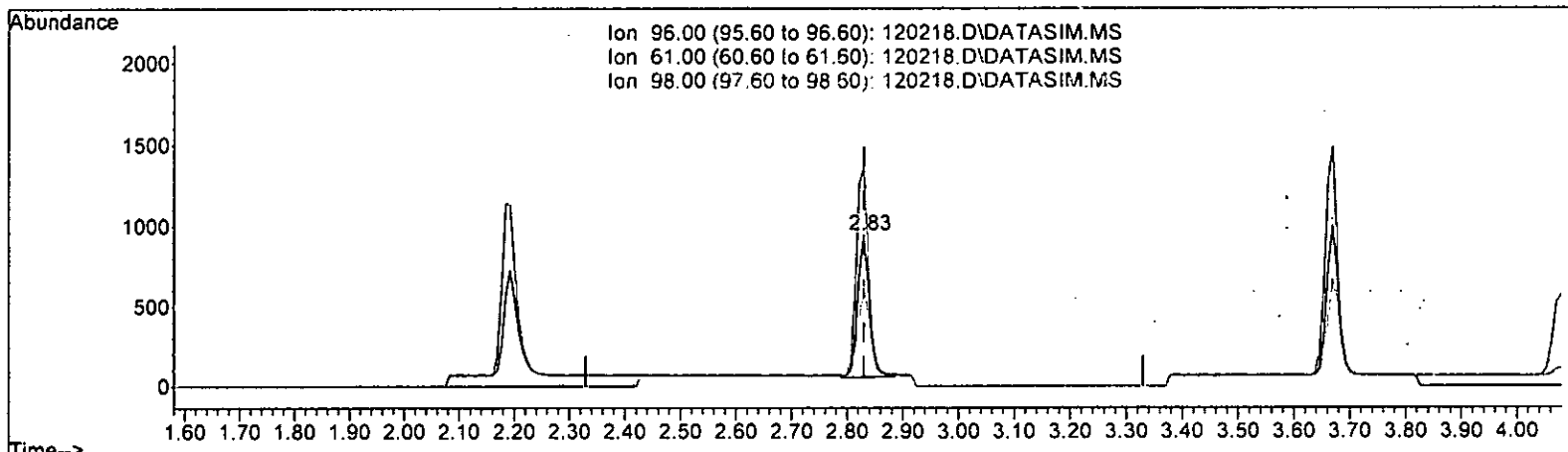
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	144.43
98.00	68.00	66.38
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120218.D\DATA.MS

*W 12.5*

(17) trans-1,2-Dichloroethene (TMP)  
 2.830min (-0.000) 1.074 ppb m  
 response 1311

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	144.43
98.00	68.00	66.38
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.065	-0.6	100	0.00
4 TMP Dichlorodifluoromethane	1.000	1.004	-0.4	100	0.00
5 TMP Chloromethane	1.000	1.046	-4.6	82	0.00
6 TMP Vinyl chloride	1.000	1.023	-2.3	101	0.00
7 TMP Bromomethane	-1.000	-0.042	0.0	0	0.00
8 TMP Chloroethane	1.000	0.960	4.0	100	0.00
9 TMP Trichlorofluoromethane	1.000	1.002	-0.2	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	5.000	5.896	-17.9	100	0.00
12 TMP 1,1-Dichloroethene	1.000	1.014	-1.4	100	0.00
13 TMP Hexane	1.000	0.933	6.7	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	5.000	5.432	-8.6	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	1.000	1.086	-8.6	102	0.00
17 TMP trans-1,2-Dichloroethene	1.000	1.074	-7.4	101	0.00
18 TMP Diisopropyl ether (DIPE)	1.000	1.055	-5.5	100	0.00
19 TMP 1,1-Dichloroethane	1.000	1.051	-5.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	1.000	0.999	0.1	100	0.00
21 TMP 2,2-Dichloropropane	1.000	1.013	-1.3	100	0.00
22 TMP cis-1,2-Dichloroethene	1.000	1.038	-3.8	100	0.00
23 TMP Chloroform	1.000	1.039	-3.9	100	0.00
24 TMP 2-Butanone (MEK)	5.000	4.105	17.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	1.000	1.086	-8.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	1.000	1.040	-4.0	100	0.00
27 TMP 1,1,1-Trichloroethane	1.000	1.024	-2.4	100	0.00
28 TMP 1,1-Dichloropropene	1.000	1.039	-3.9	100	0.00
29 TMP Carbon tetrachloride	1.000	1.037	-3.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.581	-5.8	100	0.00
31 TMP Benzene	1.000	1.028	-2.8	100	0.00
32 TMP Trichloroethene	1.000	1.030	-3.0	100	0.00
33 TMP 1,2-Dichloropropane	1.000	1.076	-7.6	100	0.00
34 TMP Bromodichloromethane	1.000	1.027	-2.7	100	0.00
35 S Toluene-d8	10.000	9.910	0.9	100	0.00
36 TMP Dibromomethane	1.000	0.952	4.8	100	0.00
37 TMP 4-Methyl-2-pentanone	5.000	5.544	-10.9	100	0.00
38 TMP cis-1,3-Dichloropropene	1.000	0.993	0.7	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	1.000	1.047	-4.7	100	0.00
41 TMP trans-1,3-Dichloropropene	1.000	0.953	4.7	100	0.00
42 TMP 1,1,2-Trichloroethane	1.000	1.029	-2.9	100	0.00
43 TMP 2-Hexanone	5.000	5.401	-8.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	1.000	1.039	-3.9	100	0.00
45 TMP Tetrachloroethene	1.000	1.032	-3.2	100	0.00
46 TMP Dibromochloromethane	1.000	1.004	-0.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	1.000	1.023	-2.3	100	0.00
48 TMP Chlorobenzene	1.000	0.989	1.1	100	0.00
49 TMP Ethylbenzene	1.000	1.086	-8.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	1.000	1.059	-5.9	100	0.00
51 TMP m,p-Xylene	2.000	2.132	-6.6	100	0.00
52 TMP o-Xylene	1.000	1.062	-6.2	100	0.00
53 TMP Styrene	1.000	1.081	-8.1	100	0.00
54 TMP Isopropylbenzene	1.000	1.063	-6.3	100	0.00
55 TMP Bromoform	1.000	0.928	7.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.092	-0.9	100	0.00
58 TMP n-Propylbenzene	1.000	1.051	-5.1	100	0.00
59 TMP Bromobenzene	1.000	1.038	-3.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.000	1.031	-3.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	1.000	1.053	-5.3	100	0.00
62 TMP 1,2,3-Trichloropropane	1.000	1.028	-2.8	100	0.00
63 TMP 2-Chlorotoluene	1.000	1.089	-8.9	100	0.00
64 TMP 4-Chlorotoluene	1.000	1.094	-9.4	100	0.00
65 TMP tert-Butylbenzene	1.000	1.041	-4.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.000	1.043	-4.3	100	0.00
67 TMP sec-Butylbenzene	1.000	1.018	-1.8	100	0.00
68 TMP p-Isopropyltoluene	1.000	1.060	-6.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.000	1.033	-3.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.000	1.052	-5.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.000	1.070	-7.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	1.000	0.989	1.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	1.000	1.093	-9.3	100	0.00
74 TMP Hexachlorobutadiene	1.000	1.006	-0.6	100	0.00
75 TMP Naphthalene	1.000	0.933	6.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	1.000	1.053	-5.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM511\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.265	-0.4	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	1.096	-15.2	82	0.00
6 TMP Vinyl chloride	0.862	0.785	8.9	101	0.00
7 TMP Bromomethane	0.441	0.000#	100.0#	0#	0.00
8 TMP Chloroethane	0.341	0.345	-1.2	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.901	-0.2	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.037	-19.4	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.255	5.9	100	0.00
13 TMP Hexane	0.469	0.523	-11.5	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.050	-8.7	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.816	-0.5	102	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.295	6.1	101	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	1.005	-5.5	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.531	2.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.307	0.0	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.361	-4.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.310	5.8	100	0.00
23 TMP Chloroform	0.477	0.495	-3.8	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.185	-6.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.802	-8.5	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.424	11.5	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.480	2.8	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.383	-4.1	100	0.00
29 TMP Carbon tetrachloride	0.396	0.411	-3.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.063	-5.0	100	0.00
31 TMP Benzene	1.103	1.061	3.8	100	0.00
32 TMP Trichloroethene	0.368	0.337	8.4	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.339	-7.6	100	0.00
34 TMP Bromodichloromethane	0.375	0.385	-2.7	100	0.00
35 S Toluene-d8	0.975	0.967	0.8	100	0.00
36 TMP Dibromomethane	0.181	0.173	4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.060	-11.1	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.440	0.7	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.924	6.3	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.484	4.7	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.291	-2.1	100	0.00
43 TMP 2-Hexanone	0.312	0.337	-8.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.503	-3.9	100	0.00
45 TMP Tetrachloroethene	0.420	0.357	15.0	100	0.00
46 TMP Dibromochloromethane	0.366	0.368	-0.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.340	10.3	100	0.00
48 TMP Chlorobenzene	0.957	0.947	1.0	100	0.00
49 TMP Ethylbenzene	1.885	1.787	5.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.379	-5.9	100	0.00
51 TMP m,p-Xylene	0.705	0.669	5.1	100	0.00
52 TMP o-Xylene	0.683	0.653	4.4	100	0.00
53 TMP Styrene	1.004	1.085	-8.1	100	0.00
54 TMP Isopropylbenzene	1.606	1.708	-6.4	100	0.00
55 TMP Bromoform	0.269	0.250	7.1	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.872	-0.9	100	0.00
58 TMP n-Propylbenzene	3.386	3.558	-5.1	100	0.00
59 TMP Bromobenzene	0.790	0.820	-3.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.560	-3.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.772	-5.3	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.616	-2.8	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.238	-9.0	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.576	-9.4	100	0.00
65 TMP tert-Butylbenzene	2.194	2.285	-4.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.685	-4.3	100	0.00
67 TMP sec-Butylbenzene	3.160	3.217	-1.8	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.870	-6.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.518	-3.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.576	-5.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.457	-7.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.156	1.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	1.069	-9.3	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.519	-0.6	100	0.00
75 TMP Naphthalene	2.401	2.241	6.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.932	-5.3	100	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	44408	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35243	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19491	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	11780	10.065	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.70%		
30) 1,2-Dichloroethane-d4	4.36	102	2801	10.581	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	105.80%		
35) Toluene-d8	5.98	98	42927	9.910	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	99.10%		
57) 4-Bromofluorobenzene	8.38	95	16996	10.092	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	100.90%		
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	1.09	85	3172	1.004	ppb	77	
5) Chloromethane	1.22	50	4865	1.046	ppb	94	
6] Vinyl chloride	1.30	62	3487m	1.023	ppb		
7) Bromomethane	1.53	94	4262	Below Cal		85	
8] Chloroethane	1.60	64	1531m	0.960	ppb		
9) Trichlorofluoromethane	1.77	101	4003	1.002	ppb	#	8
10) 2-Propanol	2.39	45	339	No Calib			
11) Acetone	2.27	58	817	5.896	ppb	#	70
12] 1,1-Dichloroethene	2.19	96	1132	1.014	ppb		92
13) Hexane	3.05	57	2323	0.933	ppb		93
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.75	59	1116	5.432	ppb		76
16] Methyl t-butyl ether (...)	2.84	73	3623m	1.086	ppb		
17] trans-1,2-Dichloroethene	2.83	96	1311m	1.074	ppb		
18) Diisopropyl ether (DIPE)	3.24	45	4461	1.055	ppb		99
19] 1,1-Dichloroethane	3.18	63	2360	1.051	ppb		98
20) Ethyl t-butyl ether (E...)	3.55	87	1363	0.999	ppb	#	85
21) 2,2-Dichloropropane	3.67	77	1605	1.013	ppb		95
22] cis-1,2-Dichloroethene	3.67	96	1375	1.038	ppb		96
23) Chloroform	3.94	83	2199	1.039	ppb		91
24) 2-Butanone (MEK)	3.71	43	4107	4.105	ppb		98
25) t-Amyl methyl ether (T...)	4.50	73	3561	1.086	ppb		96
26] 1,2-Dichloroethane (EDC)	4.41	62	1884	1.040	ppb		98
27] 1,1,1-Trichloroethane	4.08	97	2132	1.024	ppb		98
28) 1,1-Dichloropropene	4.22	75	1699	1.039	ppb		89
29) Carbon tetrachloride	4.21	117	1823	1.037	ppb		100
31] Benzene	4.39	78	4710	1.028	ppb		98
32] Trichloroethene	4.93	95	1496	1.030	ppb		96
33) 1,2-Dichloropropane	5.13	63	1504	1.076	ppb	#	100
34) Bromodichloromethane	5.37	83	1711	1.027	ppb		94
36) Dibromomethane	5.23	93	767	0.952	ppb		83

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

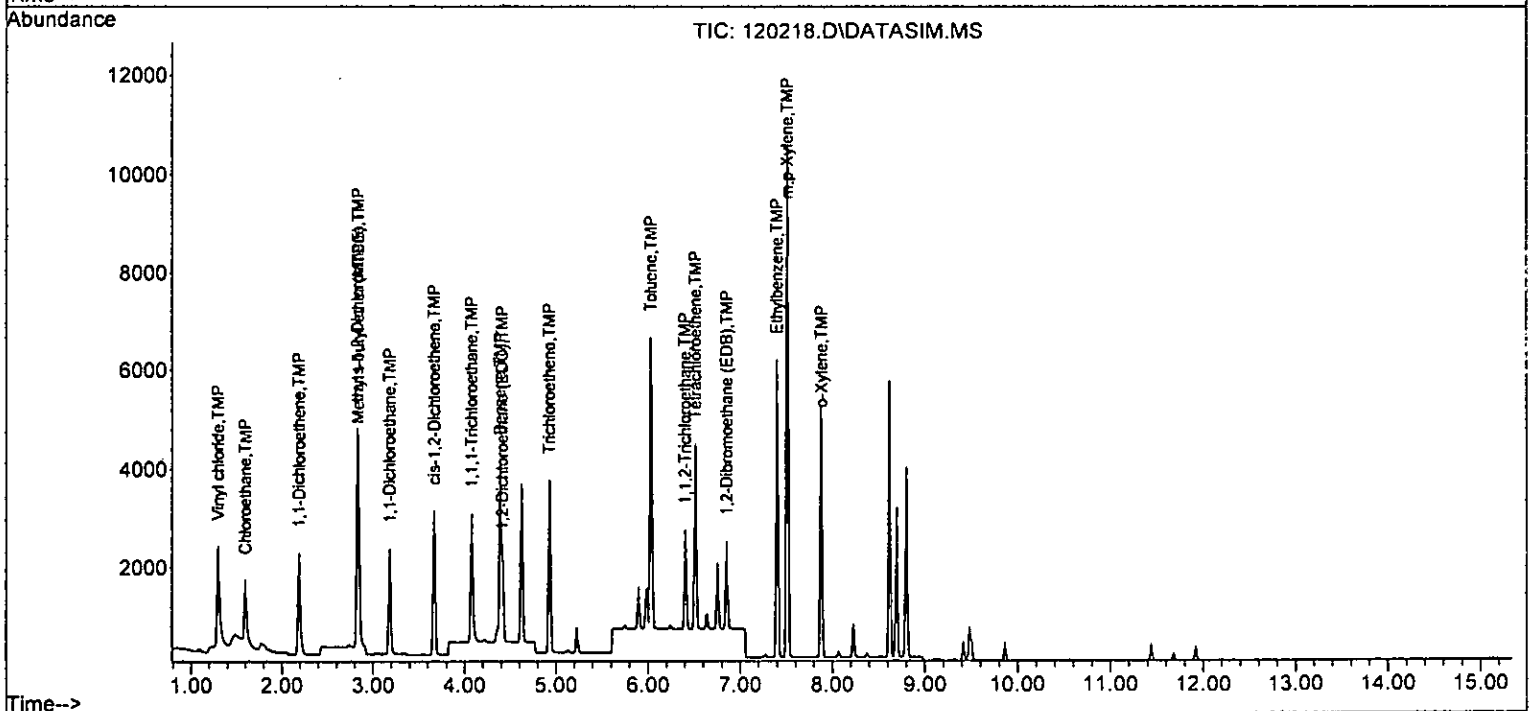
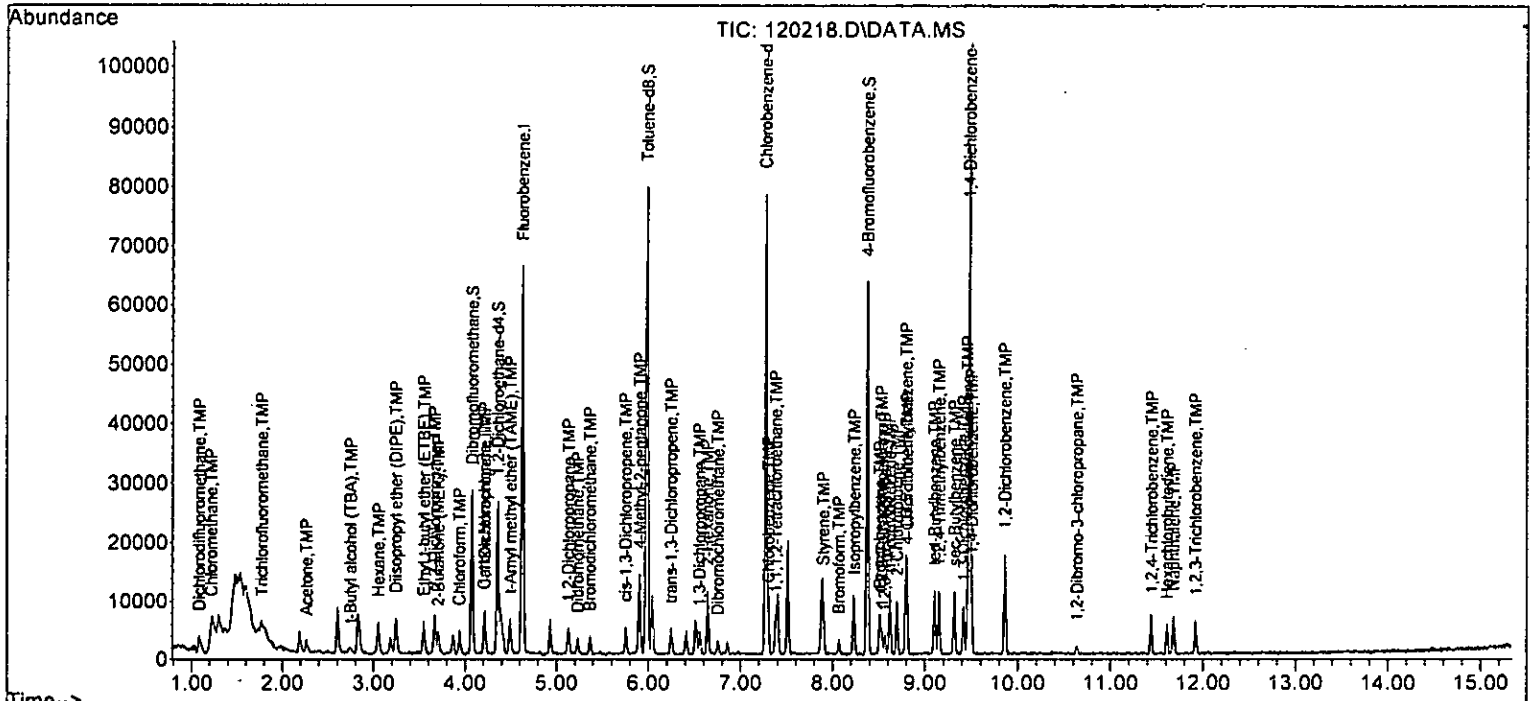
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
37) 4-Methyl-2-pentanone	5.91	85	1333	5.544	ppb	#	79
38) cis-1,3-Dichloropropene	5.75	75	1953	0.993	ppb		89
40] Toluene	6.03	92	3258	1.047	ppb		99
41) trans-1,3-Dichloropropene	6.25	75	1705	0.953	ppb		82
42] 1,1,2-Trichloroethane	6.40	83	1027	1.029	ppb		99
43) 2-Hexanone	6.64	43	5931	5.401	ppb		92
44) 1,3-Dichloropropane	6.55	76	1773	1.039	ppb		93
45] Tetrachloroethene	6.51	164	1259	1.032	ppb		99
46) Dibromochloromethane	6.75	129	1296	1.004	ppb		83
47] 1,2-Dibromoethane (ED8)	6.85	107	1199	1.023	ppb		100
48) Chlorobenzene	7.30	112	3336	0.989	ppb		98
49] Ethylbenzene	7.40	91	6298	1.086	ppb		99
50) 1,1,1,2-Tetrachloroethane	7.38	131	1337	1.059	ppb		79
51] m,p-Xylene	7.51	106	4719	2.132	ppb		97
52] o-Xylene	7.88	106	2303	1.062	ppb		98
53) Styrene	7.90	104	3825	1.081	ppb		92
54) Isopropylbenzene	8.23	105	6020	1.063	ppb		84
55) Bromoform	8.07	173	880	0.928	ppb		91
58) n-Propylbenzene	8.62	91	6935	1.051	ppb		93
59) Bromobenzene	8.51	156	1598	1.038	ppb	#	67
60) 1,3,5-Trimethylbenzene	8.80	105	4989	1.031	ppb		98
61) 1,1,2,2-Tetrachloroethane	8.53	83	1505	1.053	ppb		84
62) 1,2,3-Trichloropropane	8.56	75	1200	1.028	ppb		89
63) 2-Chlorotoluene	8.70	91	4362	1.089	ppb		100
64) 4-Chlorotoluene	8.81	91	5021	1.094	ppb		97
65) tert-Butylbenzene	9.10	119	4453	1.041	ppb		93
66) 1,2,4-Trimethylbenzene	9.15	105	5234	1.043	ppb		99
67) sec-Butylbenzene	9.32	105	6270	1.018	ppb		87
68) p-Isopropyltoluene	9.46	119	5593	1.060	ppb		99
69) 1,3-Dichlorobenzene	9.42	146	2958	1.033	ppb		94
70) 1,4-Dichlorobenzene	9.50	146	3072	1.052	ppb		94
71) 1,2-Dichlorobenzene	9.86	146	2839	1.070	ppb		84
72) 1,2-Dibromo-3-chloropr...	10.64	75	305	0.989	ppb		81
73) 1,2,4-Trichlorobenzene	11.44	180	2084	1.093	ppb		86
74) Hexachlorobutadiene	11.61	225	1011	1.006	ppb		89
75) Naphthalene	11.68	128	4367	0.933	ppb		91
76) 1,2,3-Trichlorobenzene	11.92	180	1817	1.053	ppb	#	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120218.D  
 Acq On : 02 Dec 2022 11:16 pm  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-4K  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

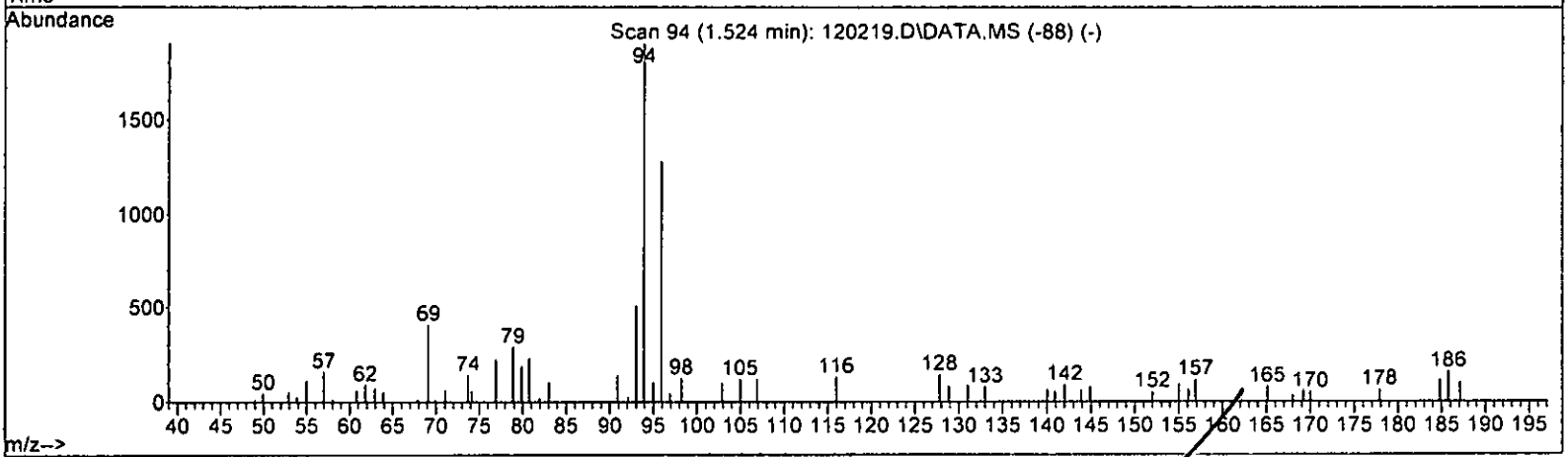
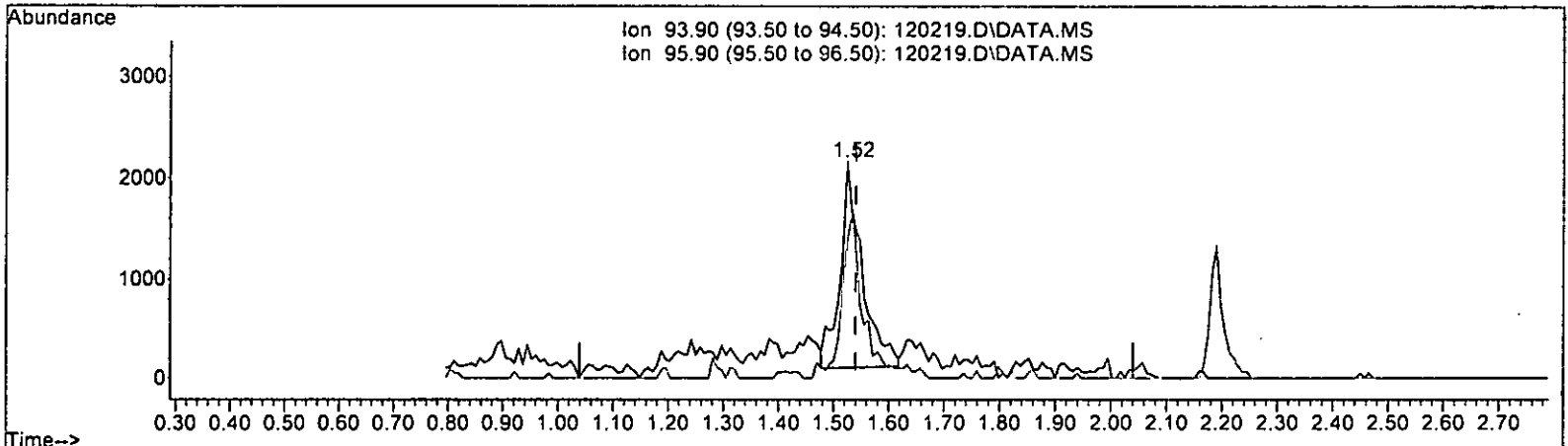
Quant Time: Dec 05 13:17:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(7) Bromomethane (TMP)

1.524min (-0.016) 0.829 ppb

response 5738

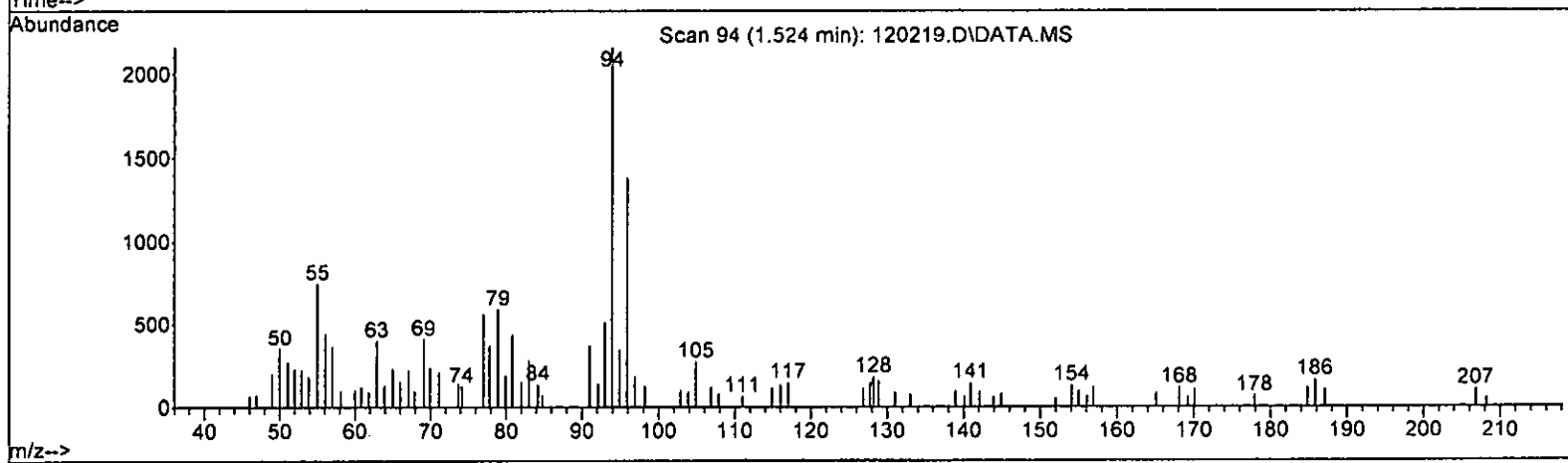
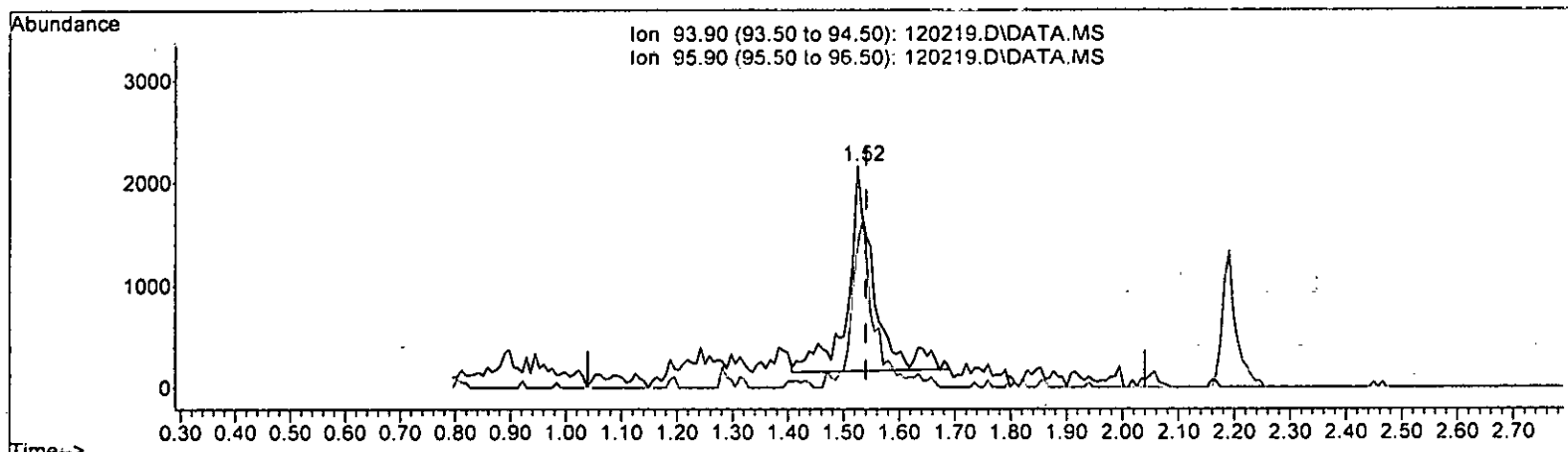
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	63.90	65.06
0.00	0.00	0.00
0.00	0.00	0.00

M 125

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 120219.D\DATA.MS

(7) Bromomethane (TMP)

1.524min (-0.016) 1.256 ppb m

response 6453

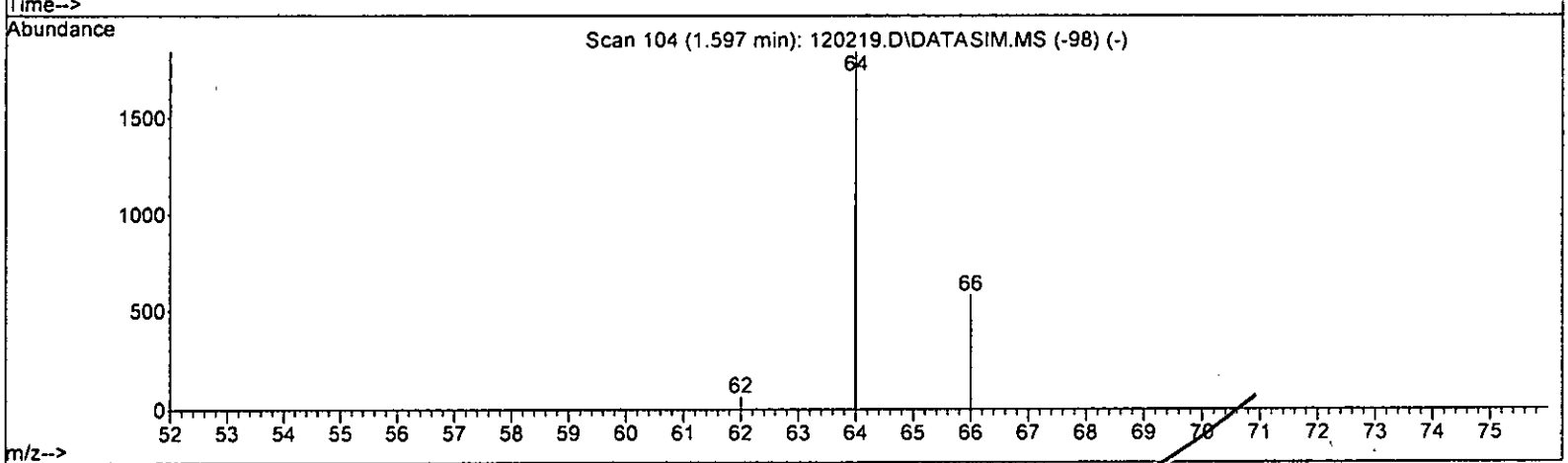
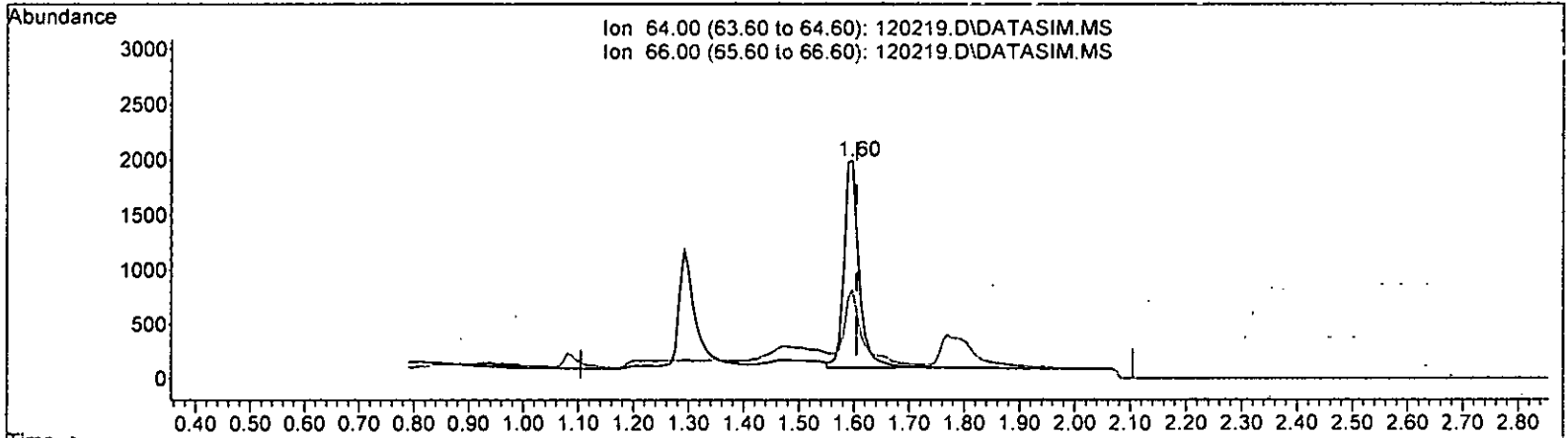
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	63.90	63.92
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(8) Chloroethane (TMP)

1.597min (-0.008) 2.368 ppb

response 3611

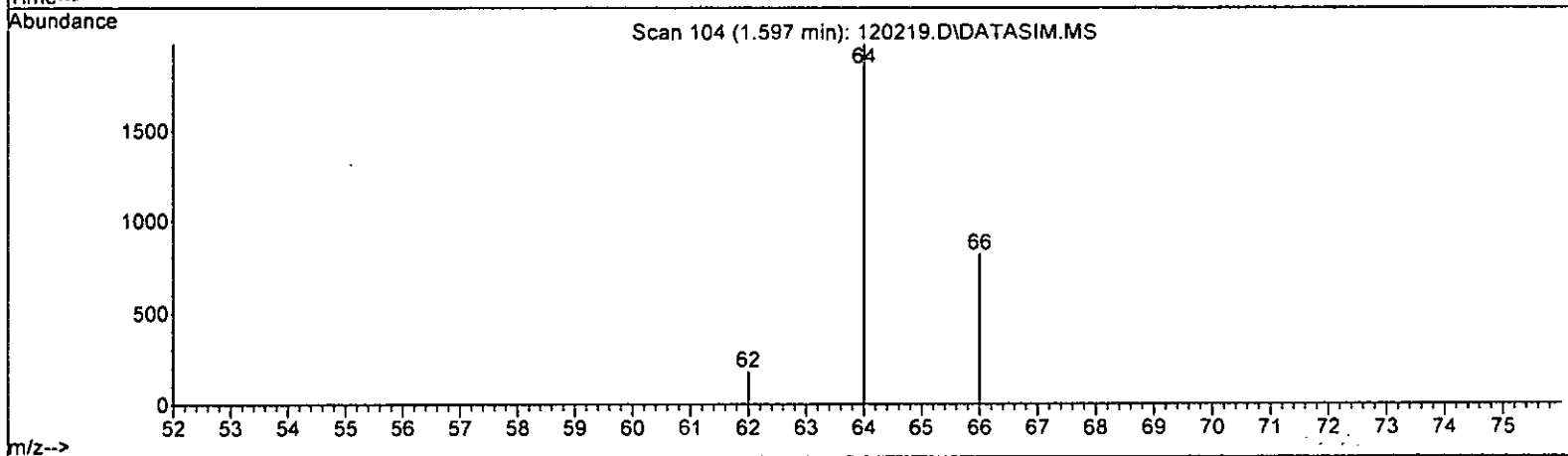
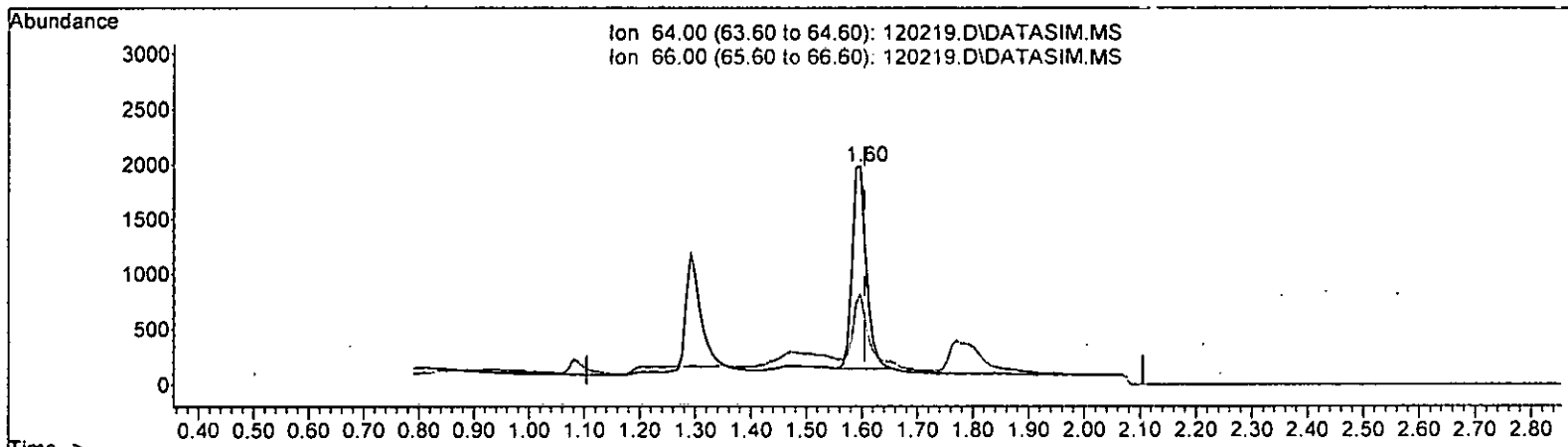
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	31.53
0.00	0.00	0.00
0.00	0.00	0.00

*VM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(8) Chloroethane (TMP)

1.597min (-0.008) 2.133 ppb m

response 3265

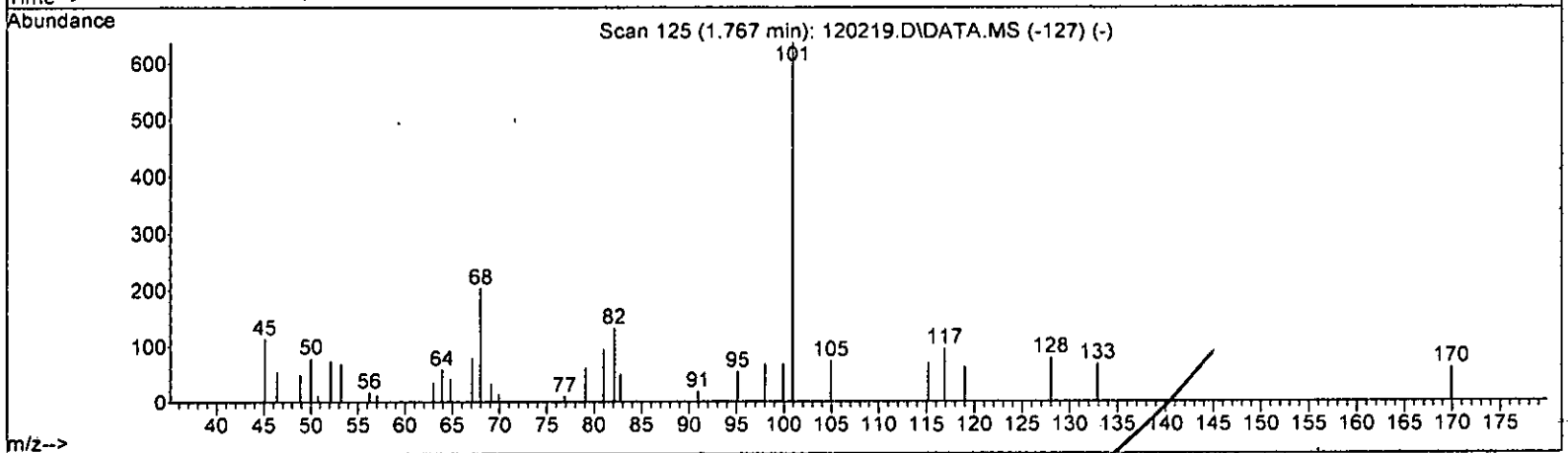
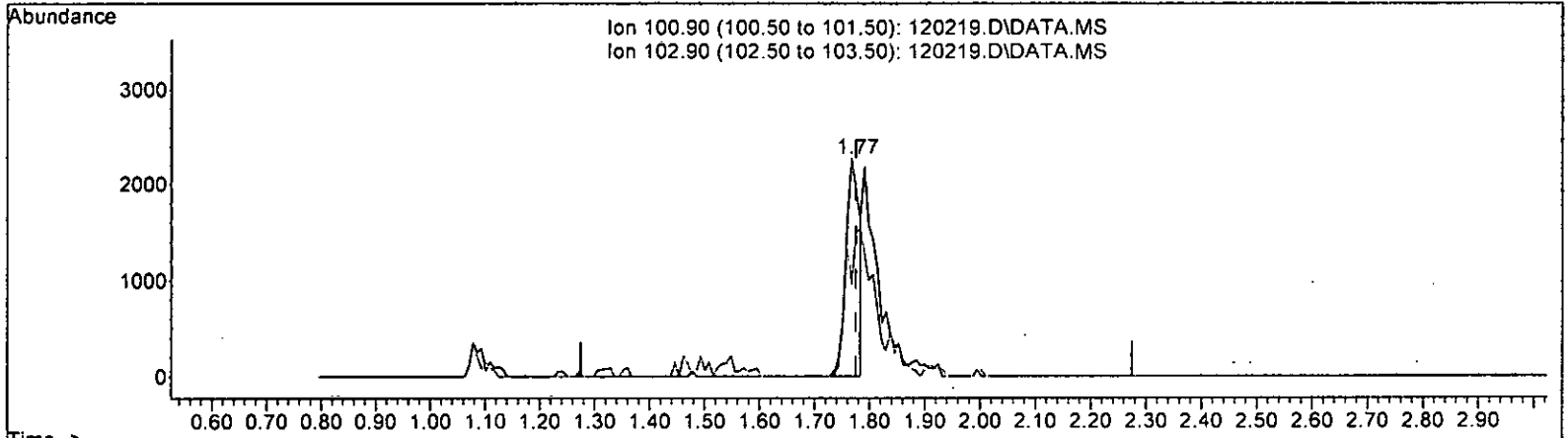
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	41.10	41.09
0.00	0.00	0.00
0.00	0.00	0.00

*m 125*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.767min (-0.008) 0.964 ppb

response 3864

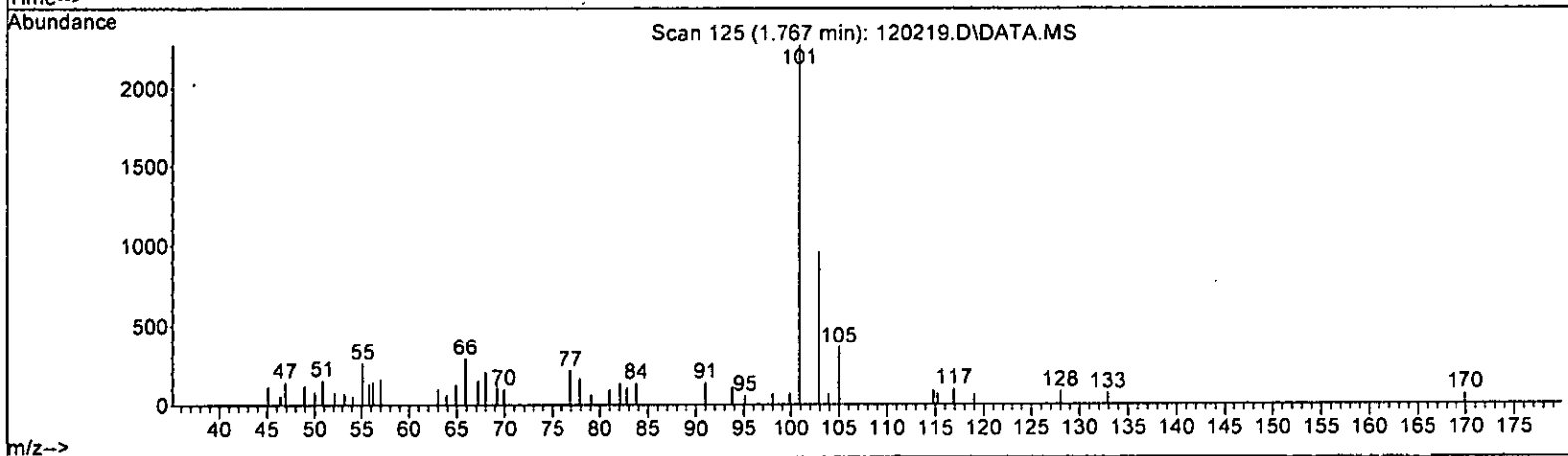
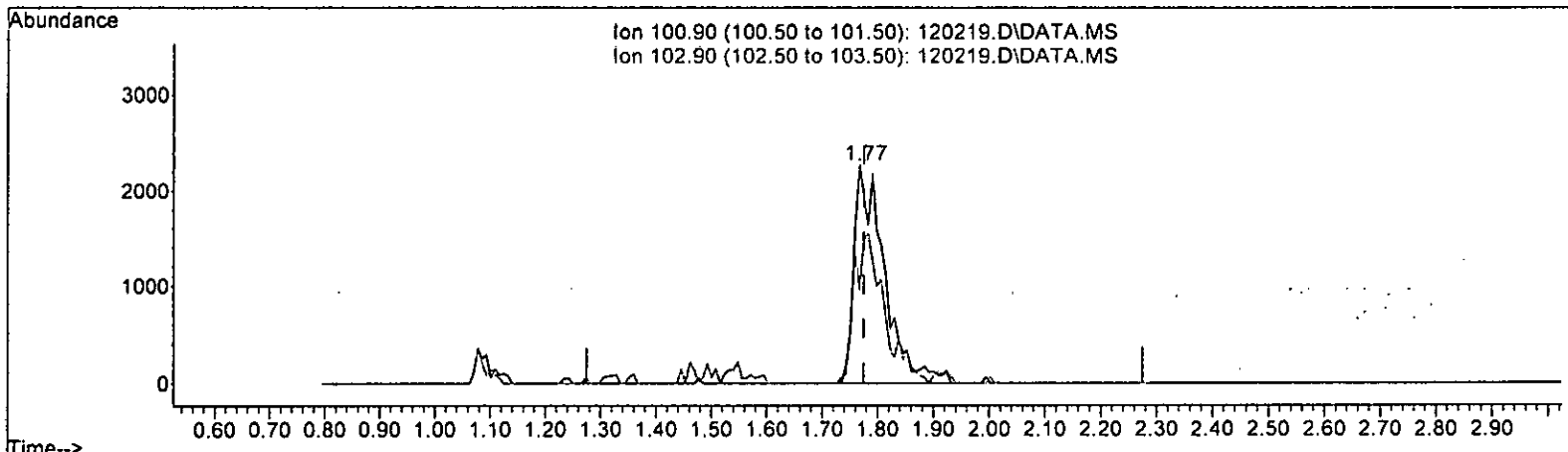
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	42.21
0.00	0.00	0.00
0.00	0.00	0.00

*LM 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS *M 12.5*

(9) Trichlorofluoromethane (TMP)

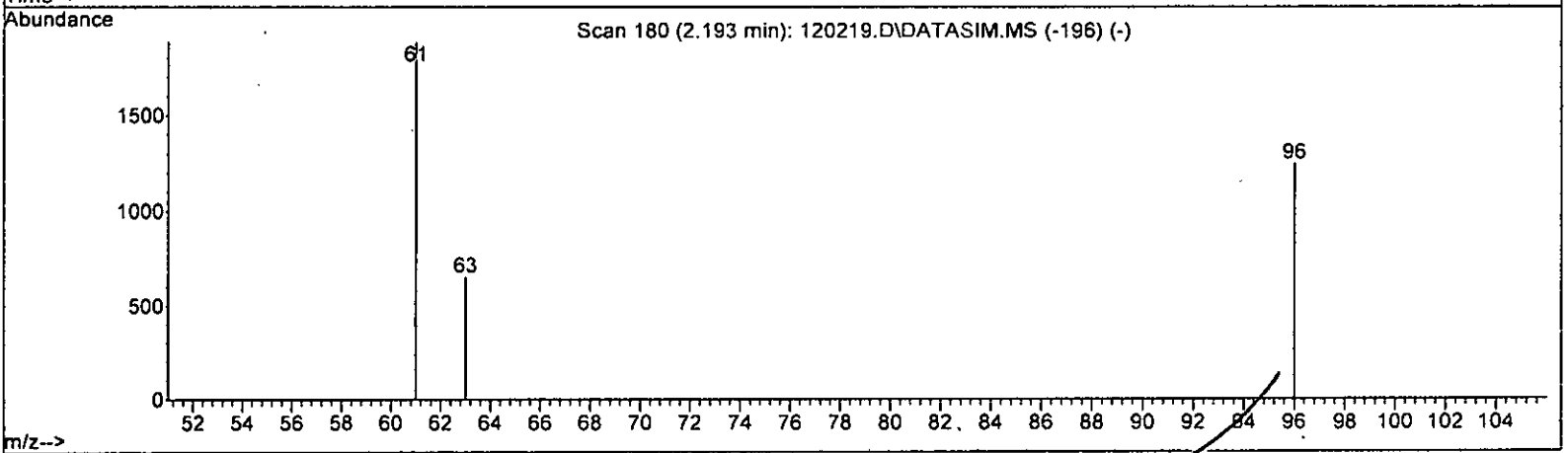
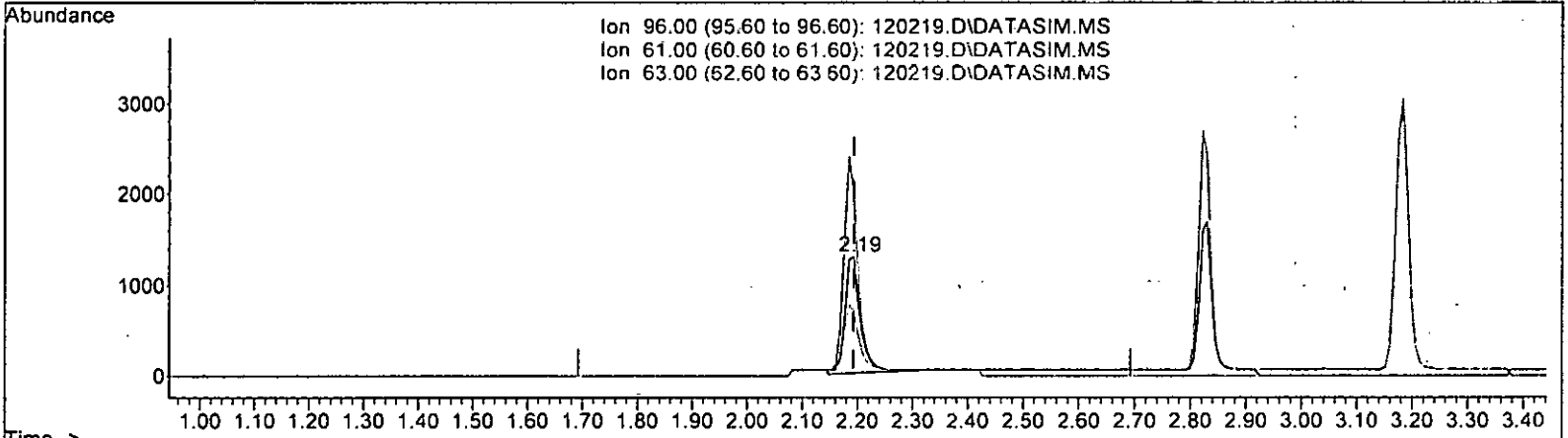
1.767min (-0.008) 2.096 ppb m

response	8407	
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	42.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 120219.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)

2.193min (-0.000) 2.233 ppb

response	2480
Ion	Exp% Act%
96.00	100.00 100.00
61.00	148.60 151.41
63.00	55.30 52.37
0.00	0.00 0.00

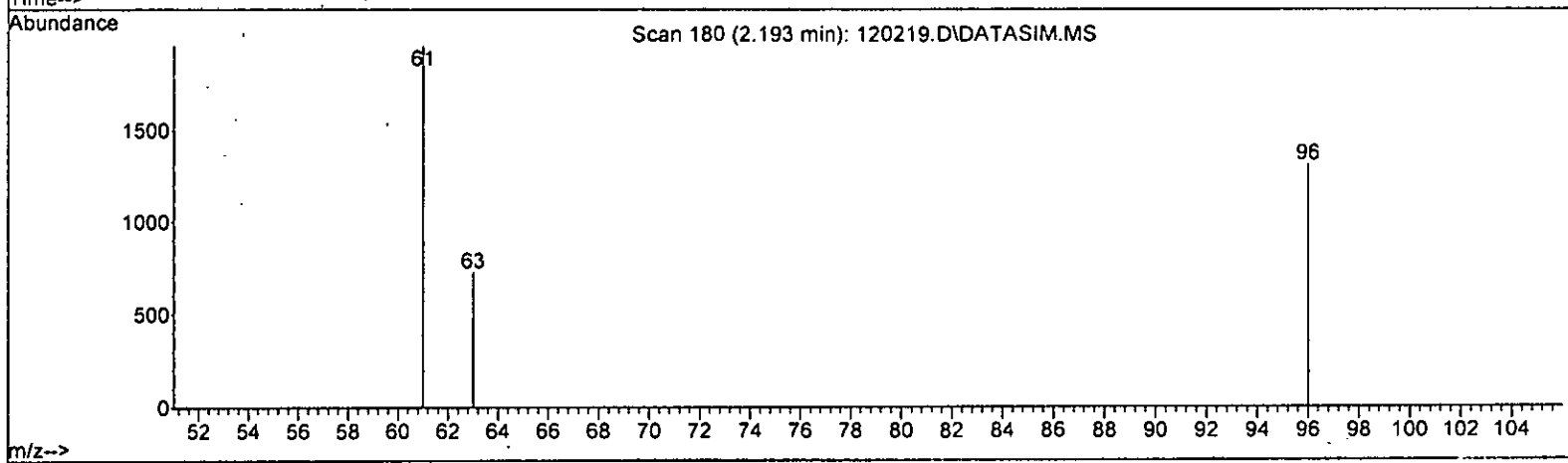
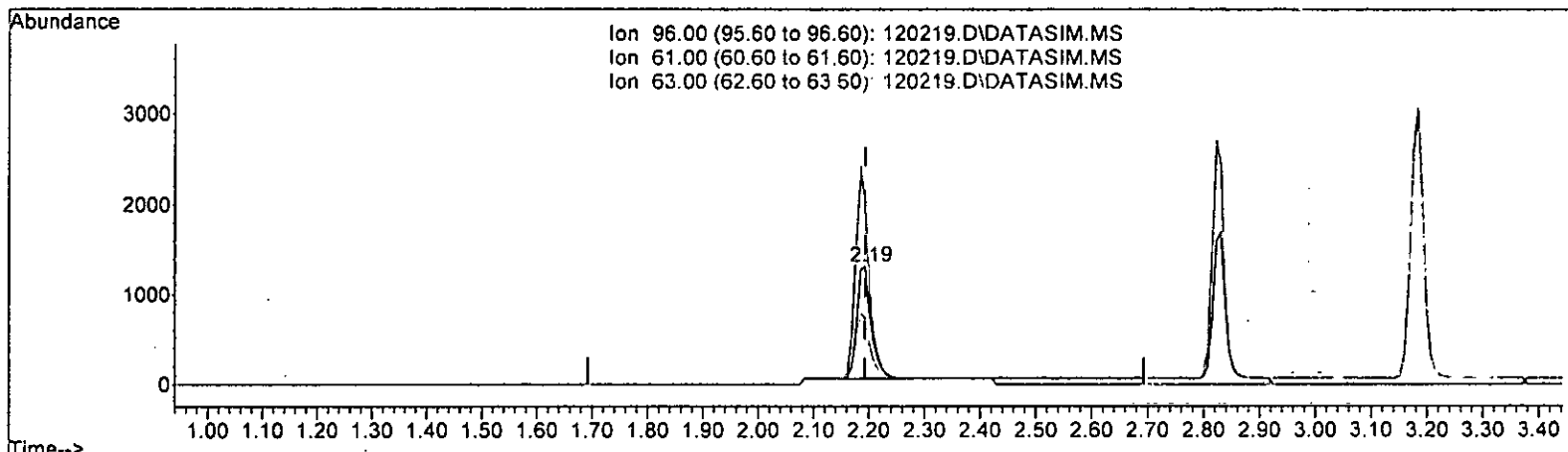
*LM* 12.5



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(12) 1,1-Dichloroethene (TMP)  
 2.193min (-0.000) 2.019 ppb m  
 response 2244

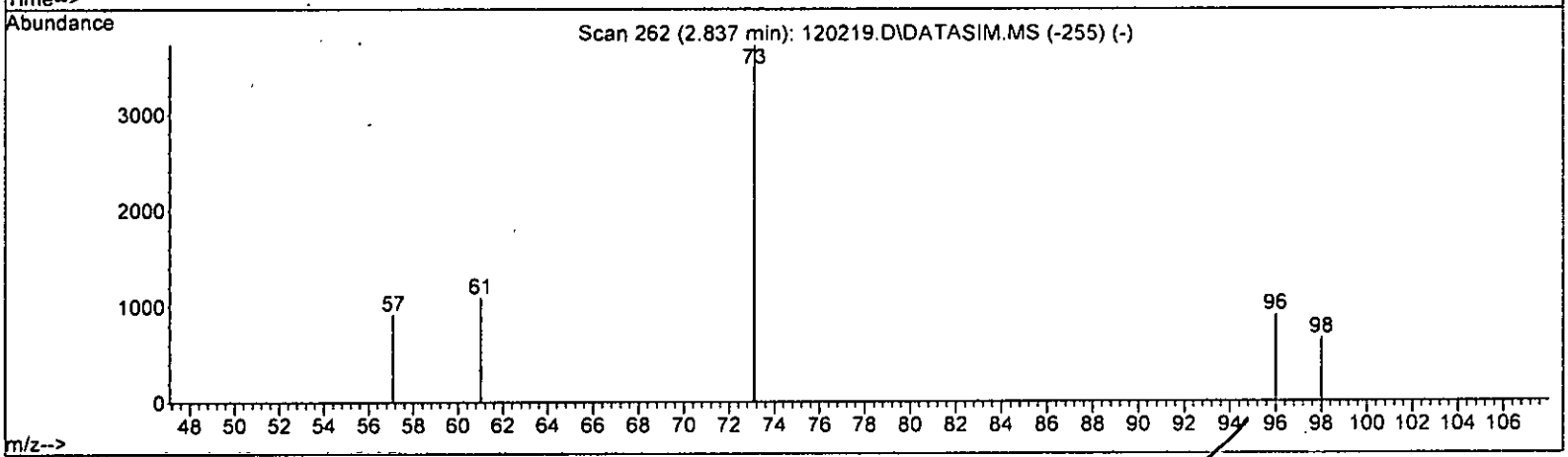
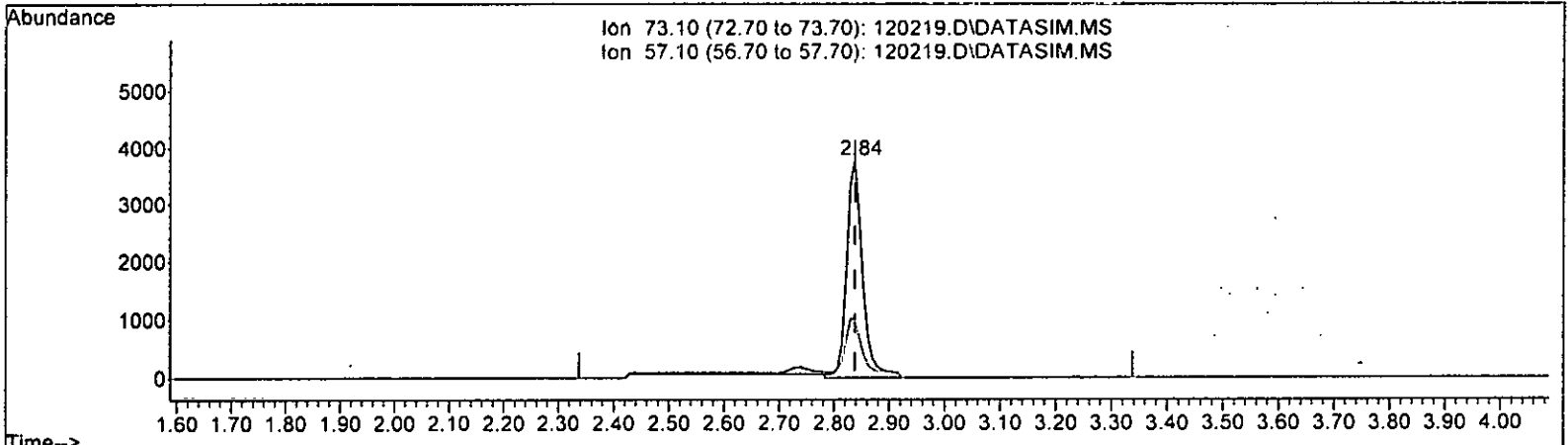
*M 12.5*

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	148.60	148.59
63.00	55.30	55.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (-0.001) 2.256 ppb

response 7494

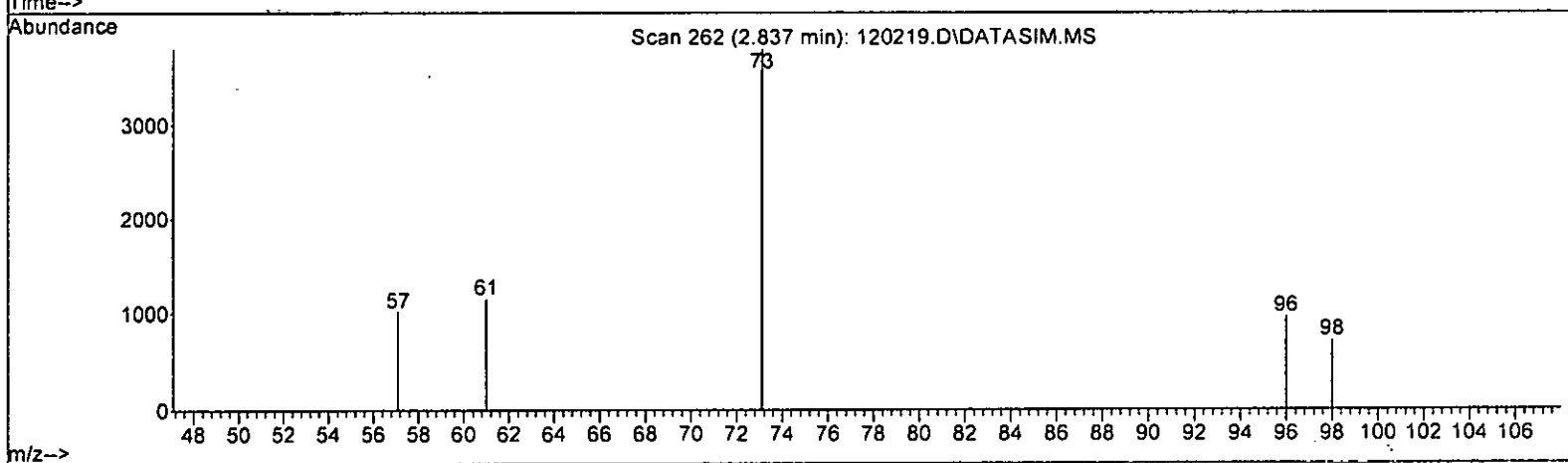
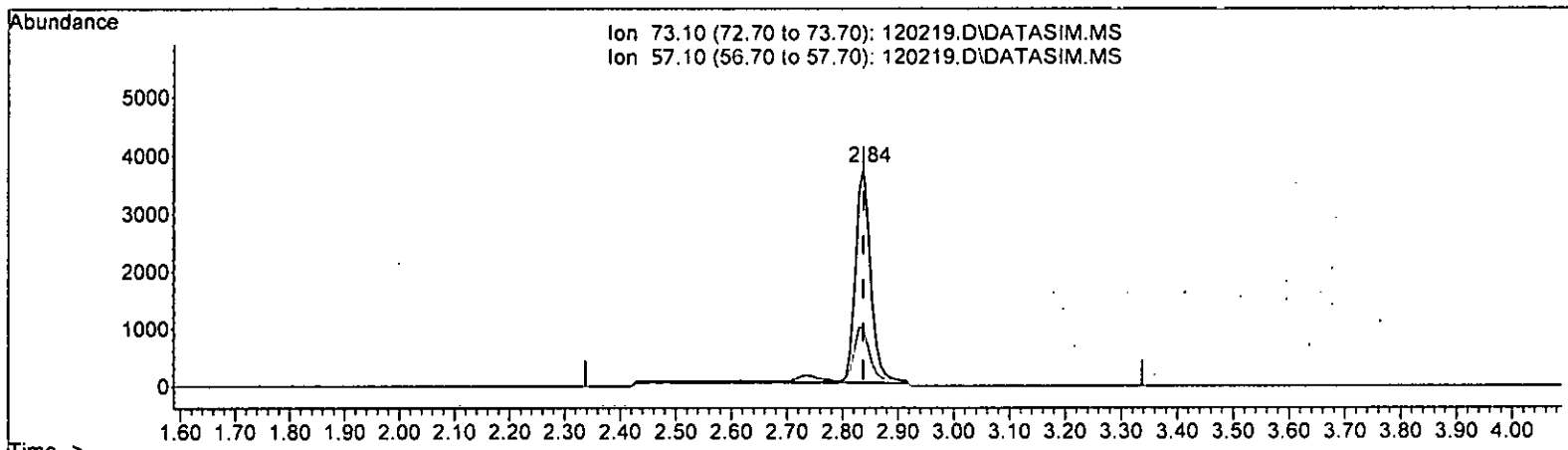
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	26.70	26.72
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(16) Methyl t-butyl ether (MTBE) (TMP) *M 12.5*

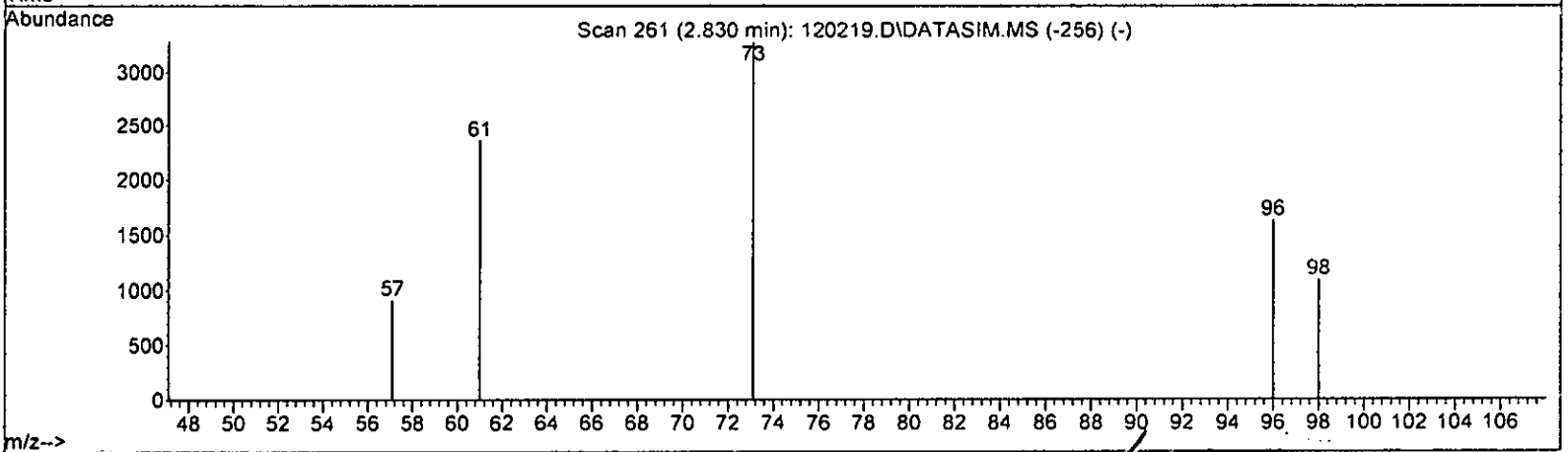
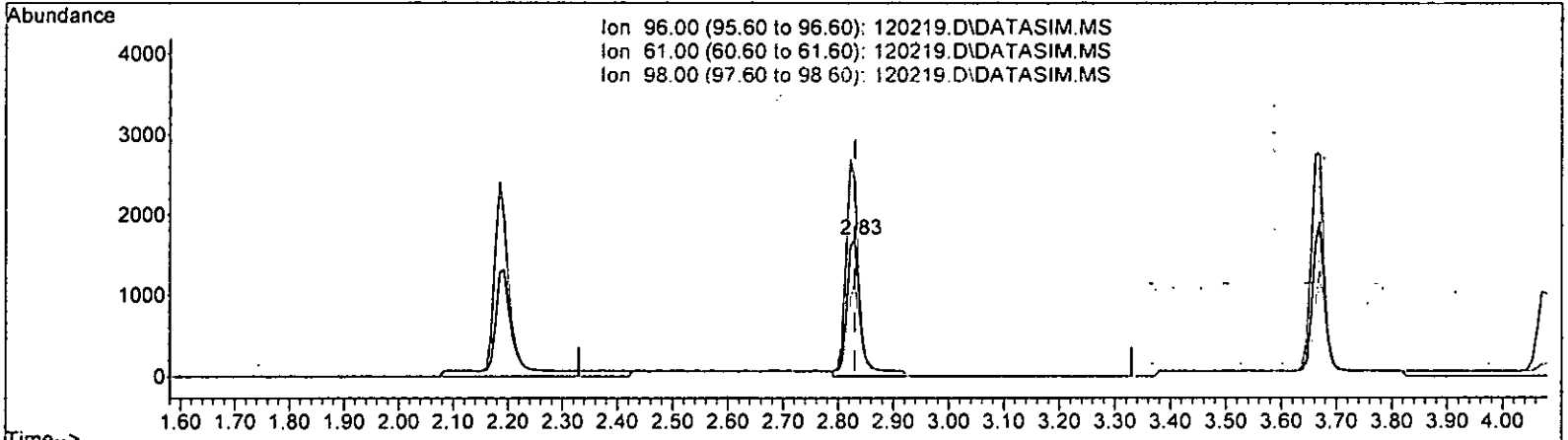
2.837min (-0.001) 2.117 ppb m

response	7035
Ion	Exp% Act%
73.10	100.00 100.00
57.10	26.70 26.72
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 2.498 ppb

response 3008

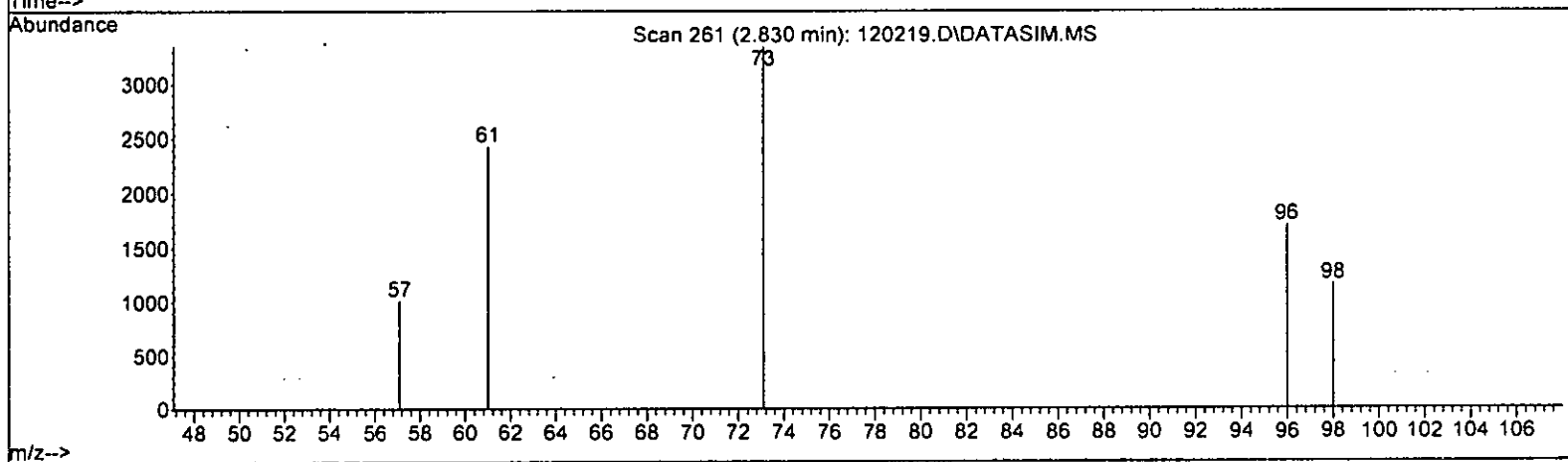
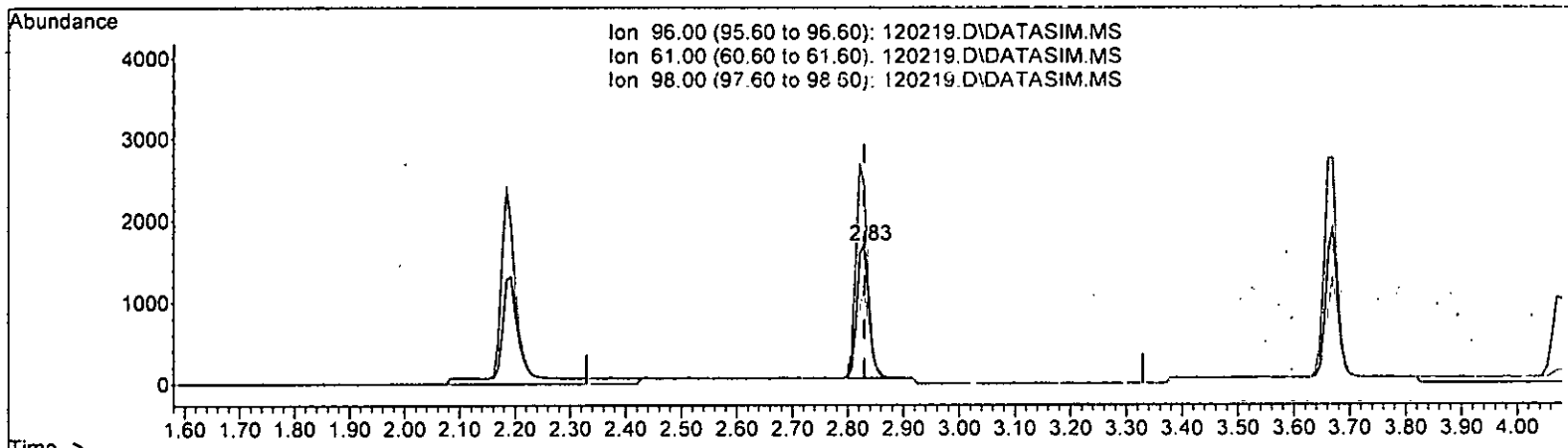
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	143.09
98.00	68.00	68.00
0.00	0.00	0.00

*Handwritten note: m 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120219.D\DATA.MS

(17) trans-1,2-Dichloroethene (TMP)

2.830min (-0.000) 2.081 ppb m

response 2513

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	143.10	143.09
98.00	68.00	68.00
0.00	0.00	0.00

*LM 12.5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.924	0.8	100	0.00
4 TMP Dichlorodifluoromethane	2.000	1.967	1.6	100	0.00
5 TMP Chloromethane	2.000	2.043	-2.2	100	0.00
6 TMP Vinyl chloride	2.000	2.071	-3.6	102	0.00
7 TMP Bromomethane	2.000	1.256	37.2#	110	-0.02
8 TMP Chloroethane	2.000	2.133	-6.7	100	0.00
9 TMP Trichlorofluoromethane	2.000	2.096	-4.8	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	10.000	9.845	1.5	100	0.00
12 TMP 1,1-Dichloroethene	2.000	2.019	-1.0	98	0.00
13 TMP Hexane	2.000	2.089	-4.4	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.61#
15 TMP t-Butyl alcohol (TBA)	10.000	10.729	-7.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	2.000	2.117	-5.8	100	0.00
17 TMP trans-1,2-Dichloroethene	2.000	2.081	-4.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	2.000	1.967	1.6	100	0.00
19 TMP 1,1-Dichloroethane	2.000	2.113	-5.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	2.000	1.925	3.7	100	0.00
21 TMP 2,2-Dichloropropane	2.000	2.317	-15.9	100	0.00
22 TMP cis-1,2-Dichloroethene	2.000	2.097	-4.8	100	0.00
23 TMP Chloroform	2.000	2.219	-10.9	100	0.00
24 TMP 2-Butanone (MEK)	10.000	9.267	7.3	100	0.00
25 TMP t-Amyl methyl ether (TAME)	2.000	2.086	-4.3	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	2.000	2.110	-5.5	100	0.00
27 TMP 1,1,1-Trichloroethane	2.000	2.044	-2.2	100	0.00
28 TMP 1,1-Dichloropropene	2.000	2.045	-2.2	100	0.00
29 TMP Carbon tetrachloride	2.000	2.027	-1.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.155	8.5	100	0.00
31 TMP Benzene	2.000	2.071	-3.6	100	0.00
32 TMP Trichloroethene	2.000	2.049	-2.4	100	0.00
33 TMP 1,2-Dichloropropane	2.000	2.107	-5.4	100	0.00
34 TMP Bromodichloromethane	2.000	2.163	-8.1	100	0.00
35 S Toluene-d8	10.000	9.690	3.1	100	0.00
36 TMP Dibromomethane	2.000	2.119	-6.0	100	0.00
37 TMP 4-Methyl-2-pentanone	10.000	9.781	2.2	100	0.00
38 TMP cis-1,3-Dichloropropene	2.000	2.076	-3.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	2.000	2.099	-5.0	100	0.00
41 TMP trans-1,3-Dichloropropene	2.000	2.055	-2.8	100	0.00
42 TMP 1,1,2-Trichloroethane	2.000	2.054	-2.7	100	0.00
43 TMP 2-Hexanone	10.000	10.129	-1.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	2.000	2.065	-3.2	100	0.00
45 TMP Tetrachloroethene	2.000	2.058	-2.9	100	0.00
46 TMP Dibromochloromethane	2.000	1.971	1.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	2.000	2.104	-5.2	100	0.00
48 TMP Chlorobenzene	2.000	2.075	-3.8	100	0.00
49 TMP Ethylbenzene	2.000	2.182	-9.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	2.000	2.047	-2.4	100	0.00
51 TMP m,p-Xylene	4.000	4.289	-7.2	100	0.00
52 TMP o-Xylene	2.000	2.127	-6.3	100	0.00
53 TMP Styrene	2.000	2.110	-5.5	100	0.00
54 TMP Isopropylbenzene	2.000	2.074	-3.7	100	0.00
55 TMP Bromoform	2.000	2.030	-1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.989	0.1	100	0.00
58 TMP n-Propylbenzene	2.000	2.138	-6.9	100	0.00
59 TMP Bromobenzene	2.000	2.113	-5.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.000	2.066	-3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	2.000	2.173	-8.7	100	0.00
62 TMP 1,2,3-Trichloropropane	2.000	2.058	-2.9	100	0.00
63 TMP 2-Chlorotoluene	2.000	2.111	-5.6	100	0.00
64 TMP 4-Chlorotoluene	2.000	2.097	-4.8	100	0.00
65 TMP tert-Butylbenzene	2.000	2.140	-7.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.000	2.060	-3.0	100	0.00
67 TMP sec-Butylbenzene	2.000	2.077	-3.8	100	0.00
68 TMP p-Isopropyltoluene	2.000	2.153	-7.7	100	0.00
69 TMP 1,3-Dichlorobenzene	2.000	2.103	-5.2	100	0.00
70 TMP 1,4-Dichlorobenzene	2.000	2.125	-6.3	100	0.00
71 TMP 1,2-Dichlorobenzene	2.000	2.135	-6.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	2.000	2.186	-9.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	2.000	2.147	-7.3	100	0.00
74 TMP Hexachlorobutadiene	2.000	2.041	-2.0	100	0.00
75 TMP Naphthalene	2.000	1.897	5.1	100	0.00
76 TMP 1,2,3-Trichlorobenzene	2.000	1.967	1.6	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.262	0.8	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.700	1.7	100	0.00
5 TMP Chloromethane	0.951	0.970	-2.0	100	0.00
6 TMP Vinyl chloride	0.862	0.783	9.2	102	0.00
7 TMP Bromomethane	0.441	0.723	-63.9#	110	-0.02
8 TMP Chloroethane	0.341	0.366	-7.3	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.942	-4.8	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.031	0.0	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.252	7.0	98	0.00
13 TMP Hexane	0.469	0.502	-7.0	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.61#
15 TMP t-Butyl alcohol (TBA)	0.046	0.050	-8.7	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.789	2.8	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.282	10.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.937	1.7	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.529	3.3	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.296	3.6	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.378	-8.9	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.309	6.1	100	0.00
23 TMP Chloroform	0.477	0.529	-10.9	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.176	-1.7	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.771	-4.3	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.422	11.9	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.476	3.6	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.377	-2.4	100	0.00
29 TMP Carbon tetrachloride	0.396	0.401	-1.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	100	0.00
31 TMP Benzene	1.103	1.059	4.0	100	0.00
32 TMP Trichloroethene	0.368	0.330	10.3	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.332	-5.4	100	0.00
34 TMP Bromodichloromethane	0.375	0.406	-8.3	100	0.00
35 S Toluene-d8	0.975	0.945	3.1	100	0.00
36 TMP Dibromomethane	0.181	0.192	-6.1	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.053	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.460	-3.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.915	7.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.522	-2.8	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.288	-1.1	100	0.00
43 TMP 2-Hexanone	0.312	0.316	-1.3	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.500	-3.3	100	0.00
45 TMP Tetrachloroethene	0.420	0.348	17.1	100	0.00
46 TMP Dibromochloromethane	0.366	0.361	1.4	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.344	9.2	100	0.00
48 TMP Chlorobenzene	0.957	0.993	-3.8	100	0.00
49 TMP Ethylbenzene	1.885	1.768	6.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.367	-2.5	100	0.00
51 TMP m,p-Xylene	0.705	0.665	5.7	100	0.00
52 TMP o-Xylene	0.683	0.646	5.4	100	0.00
53 TMP Styrene	1.004	1.059	-5.5	100	0.00
54 TMP Isopropylbenzene	1.606	1.666	-3.7	100	0.00
55 TMP Bromoform	0.269	0.273	-1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.863	0.1	100	0.00
58 TMP n-Propylbenzene	3.386	3.619	-6.9	100	0.00
59 TMP Bromobenzene	0.790	0.834	-5.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.563	-3.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.797	-8.7	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.616	-2.8	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.168	-5.6	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.469	-4.8	100	0.00
65 TMP tert-Butylbenzene	2.194	2.348	-7.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.652	-3.0	100	0.00
67 TMP sec-Butylbenzene	3.160	3.281	-3.8	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.913	-7.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.544	-5.1	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.591	-6.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.452	-6.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.173	-9.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	1.050	-7.4	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.526	-1.9	100	0.00
75 TMP Naphthalene	2.401	2.277	5.2	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.871	1.6	100	0.00

(#) = Out of Range

SPCC's out = 2 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	44600	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35263	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	18806	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	11665	9.924	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.20%	
30) 1,2-Dichloroethane-d4	4.35	102	2434	9.155	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	91.50%	
35) Toluene-d8	5.98	98	42155	9.690	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	96.90%	
57) 4-Bromofluorobenzene	8.38	95	16232	9.989	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	99.90%	
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.08	85	6241	1.967	ppb		100
5) Chloromethane	1.22	50	8648	2.043	ppb		100
6] Vinyl chloride	1.29	62	6988	2.071	ppb		96
7) Bromomethane	1.52	94	6453m	1.256	ppb		
8] Chloroethane	1.60	64	3265m	2.133	ppb		
9) Trichlorofluoromethane	1.77	101	8407m	2.096	ppb		
10) 2-Propanol	2.39	45	280	No Calib			
11) Acetone	2.26	58	1370	9.845	ppb		100
12] 1,1-Dichloroethene	2.19	96	2244m	2.019	ppb		
13) Hexane	3.05	57	4478	2.089	ppb		100
14) Methylene chloride	0.00		0	N.D.			
15) t-Butyl alcohol (TBA)	2.73	59	2214	10.729	ppb		100
16] Methyl t-butyl ether (...)	2.84	73	7035m	2.117	ppb		
17] trans-1,2-Dichloroethene	2.83	96	2513m	2.081	ppb		
18) Diisopropyl ether (DIPE)	3.24	45	8356	1.967	ppb		100
19] 1,1-Dichloroethane	3.18	63	4723	2.113	ppb		100
20) Ethyl t-butyl ether (E...)	3.55	87	2639	1.925	ppb		100
21) 2,2-Dichloropropane	3.67	77	3370	2.317	ppb		100
22] cis-1,2-Dichloroethene	3.67	96	2759	2.097	ppb		100
23) Chloroform	3.94	83	4717	2.219	ppb		100
24) 2-Butanone (MEK)	3.71	43	7841	9.267	ppb		100
25) t-Amyl methyl ether (T...)	4.49	73	6873	2.086	ppb		100
26] 1,2-Dichloroethane (EDC)	4.41	62	3763	2.110	ppb		100
27] 1,1,1-Trichloroethane	4.08	97	4246	2.044	ppb		100
28) 1,1-Dichloropropene	4.22	75	3359	2.045	ppb		100
29) Carbon tetrachloride	4.21	117	3581	2.027	ppb		100
31] Benzene	4.39	78	9449	2.071	ppb		100
32] Trichloroethene	4.93	95	2947	2.049	ppb		100
33) 1,2-Dichloropropane	5.13	63	2958	2.107	ppb	#	100
34) Bromodichloromethane	5.37	83	3620	2.163	ppb		100
36) Dibromomethane	5.22	93	1714	2.119	ppb		100

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

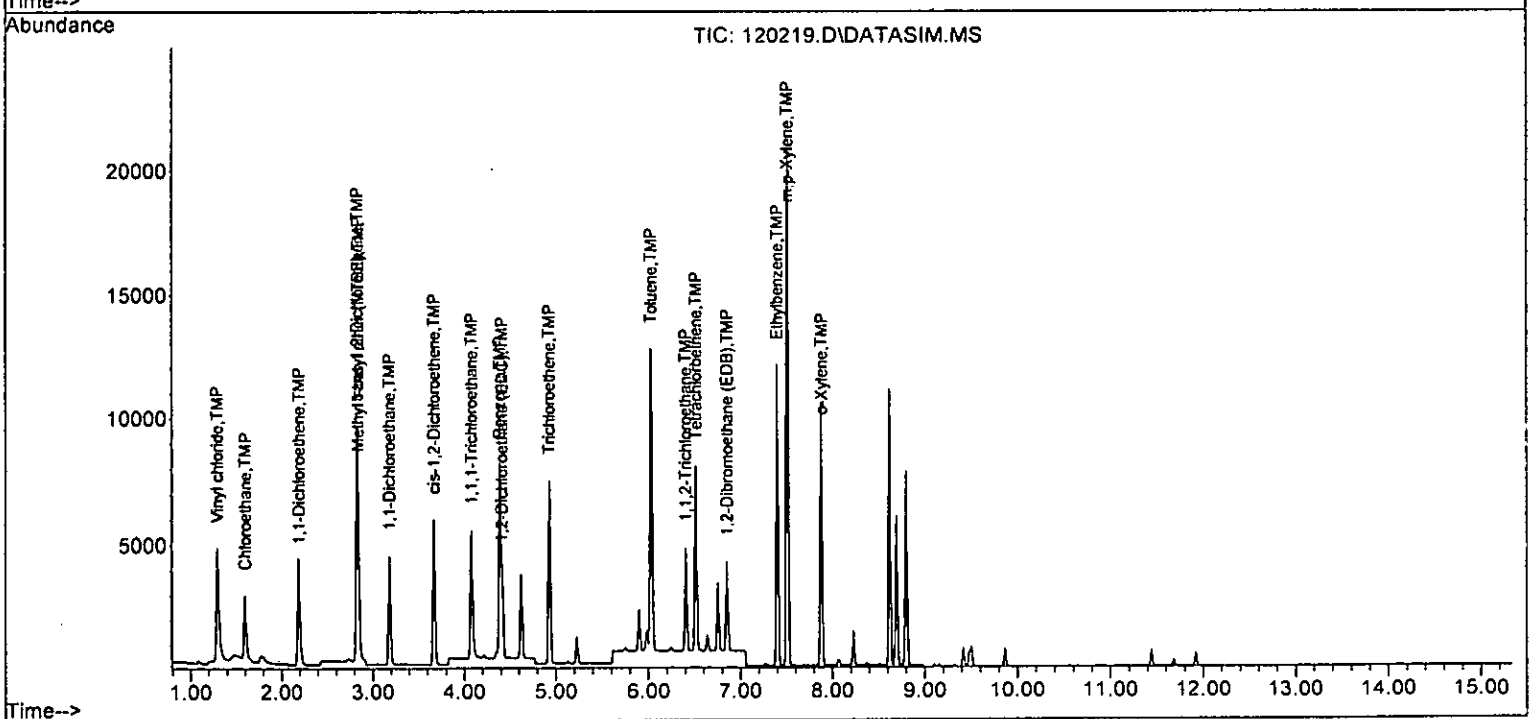
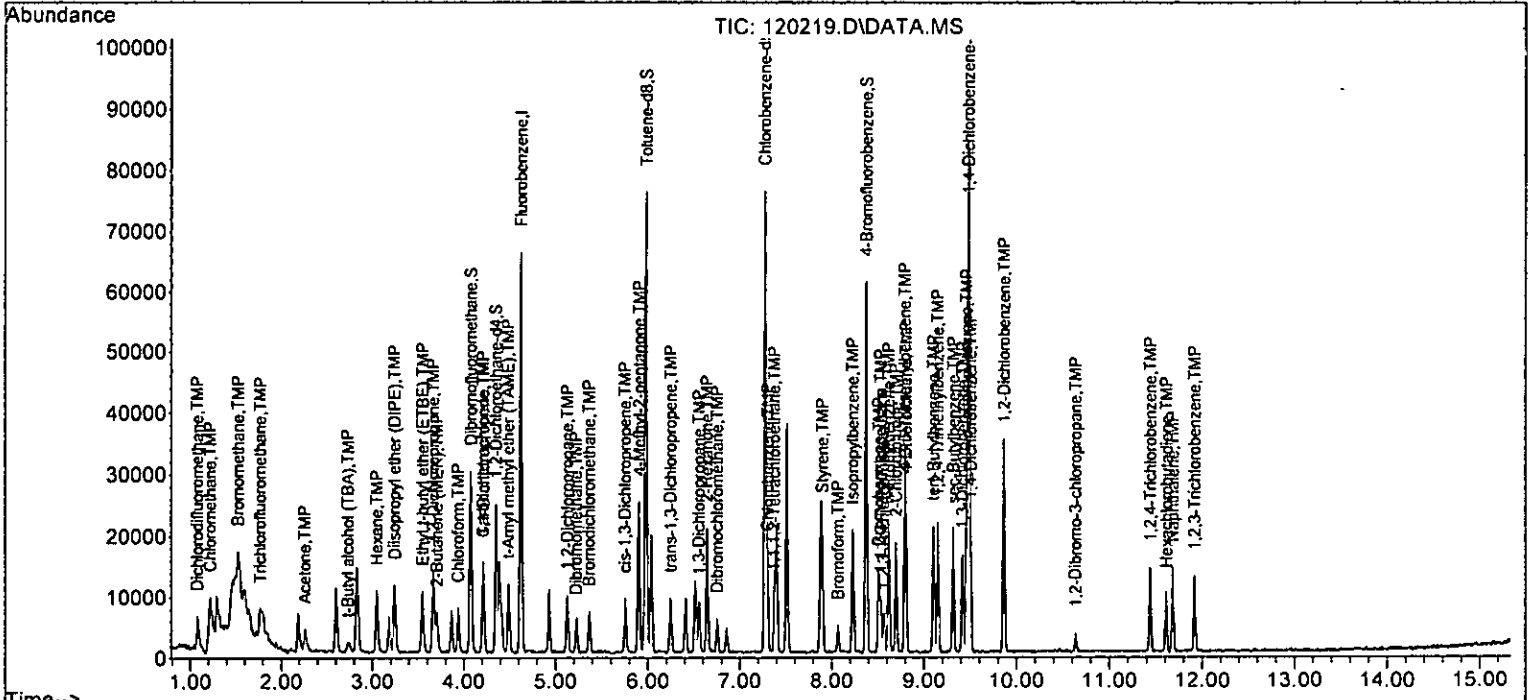
Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	2362	9.781	ppb	100
38) cis-1,3-Dichloropropene	5.75	75	4103	2.076	ppb	100
40] Toluene	6.03	92	6454	2.099	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	3678	2.055	ppb	100
42] 1,1,2-Trichloroethane	6.40	83	2028	2.054	ppb	100
43) 2-Hexanone	6.64	43	11128	10.129	ppb	100
44) 1,3-Dichloropropane	6.55	76	3527	2.065	ppb	100
45] Tetrachloroethene	6.51	164	2452	2.058	ppb	100
46) Dibromochloromethane	6.75	129	2545	1.971	ppb	100
47] 1,2-Dibromoethane (EDB)	6.85	107	2426	2.104	ppb	100
48) Chlorobenzene	7.30	112	7003	2.075	ppb	100
49] Ethylbenzene	7.40	91	12470	2.182	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.37	131	2585	2.047	ppb	100
51] m,p-Xylene	7.51	106	9374	4.289	ppb	100
52] o-Xylene	7.88	106	4558	2.127	ppb	100
53) Styrene	7.90	104	7472	2.110	ppb	100
54) Isopropylbenzene	8.23	105	11747	2.074	ppb	100
55) Bromoform	8.07	173	1926	2.030	ppb	100
58) n-Propylbenzene	8.62	91	13613	2.138	ppb	100
59) Bromobenzene	8.51	156	3138	2.113	ppb	100
60) 1,3,5-Trimethylbenzene	8.79	105	9640	2.066	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	2997	2.173	ppb	100
62) 1,2,3-Trichloropropane	8.56	75	2317	2.058	ppb	100
63) 2-Chlorotoluene	8.70	91	8155	2.111	ppb	100
64) 4-Chlorotoluene	8.81	91	9285	2.097	ppb	100
65) tert-Butylbenzene	9.10	119	8830	2.140	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	9975	2.060	ppb	100
67) sec-Butylbenzene	9.32	105	12342	2.077	ppb	100
68) p-Isopropyltoluene	9.46	119	10956	2.153	ppb	100
69) 1,3-Dichlorobenzene	9.42	146	5809	2.103	ppb	100
70) 1,4-Dichlorobenzene	9.50	146	5984	2.125	ppb	100
71) 1,2-Dichlorobenzene	9.86	146	5463	2.135	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.63	75	650	2.186	ppb	100
73) 1,2,4-Trichlorobenzene	11.44	180	3950	2.147	ppb	100
74) Hexachlorobutadiene	11.61	225	1979	2.041	ppb	100
75) Naphthalene	11.68	128	8565	1.897	ppb	100
76) 1,2,3-Trichlorobenzene	11.92	180	3275	1.967	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120219.D  
 Acq On : 02 Dec 2022 11:39 pm  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-4L  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:41 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	45348	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35641	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19209	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11926	9.979	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.80%	
30) 1,2-Dichloroethane-d4	4.36	102	2665	9.858	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	98.60%	
35) Toluene-d8	5.98	98	43063	9.735	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	97.40%	
57) 4-Bromofluorobenzene	8.38	95	16882	10.171	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	101.70%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	15267	4.731	ppb		93
5) Chloromethane	1.23	50	18676	4.618	ppb		96
6] Vinyl chloride	1.30	62	16294	4.788	ppb		90
7) Bromomethane	1.55	94	11861m	4.370	ppb		
8] Chloroethane	1.60	64	7709	5.066	ppb		80
9) Trichlorofluoromethane	1.77	101	19233m	4.717	ppb		
10) 2-Propanol	2.41	45	194	No Calib			
11) Acetone	2.27	58	3294	23.280	ppb		92
12] 1,1-Dichloroethene	2.20	96	5590	4.974	ppb		95
13) Hexane	3.05	57	9349	4.631	ppb		94
14) Methylene chloride	2.61	84	6955	5.105	ppb		87
15) t-Butyl alcohol (TBA)	2.74	59	5271	25.122	ppb		99
16] Methyl t-butyl ether (...)	2.85	73	17079	5.081	ppb		97
17] trans-1,2-Dichloroethene	2.84	96	6418	5.279	ppb		99
18) Diisopropyl ether (DIPE)	3.25	45	19825	4.589	ppb		100
19] 1,1-Dichloroethane	3.19	63	11132	4.922	ppb		98
20) Ethyl t-butyl ether (E...)	3.55	87	6454	4.631	ppb		99
21) 2,2-Dichloropropane	3.67	77	7105	4.999	ppb		91
22] cis-1,2-Dichloroethene	3.67	96	6495	4.888	ppb		88
23) Chloroform	3.95	83	10178	4.710	ppb		97
24) 2-Butanone (MEK)	3.71	43	17984	22.943	ppb		98
25) t-Amyl methyl ether (T...)	4.50	73	16096	4.805	ppb		96
26] 1,2-Dichloroethane (EDC)	4.42	62	8801	4.907	ppb		97
27] 1,1,1-Trichloroethane	4.08	97	10066	4.783	ppb		94
28) 1,1-Dichloropropene	4.22	75	7750	4.641	ppb		89
29) Carbon tetrachloride	4.22	117	8690	4.839	ppb		99
31] Benzene	4.39	78	22322	4.837	ppb		94
32] Trichloroethene	4.93	95	7013	4.837	ppb		90
33) 1,2-Dichloropropane	5.13	63	6473	4.534	ppb		100
34) Bromodichloromethane	5.37	83	8090	4.754	ppb		98
36) Dibromomethane	5.23	93	3768	4.582	ppb		82

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

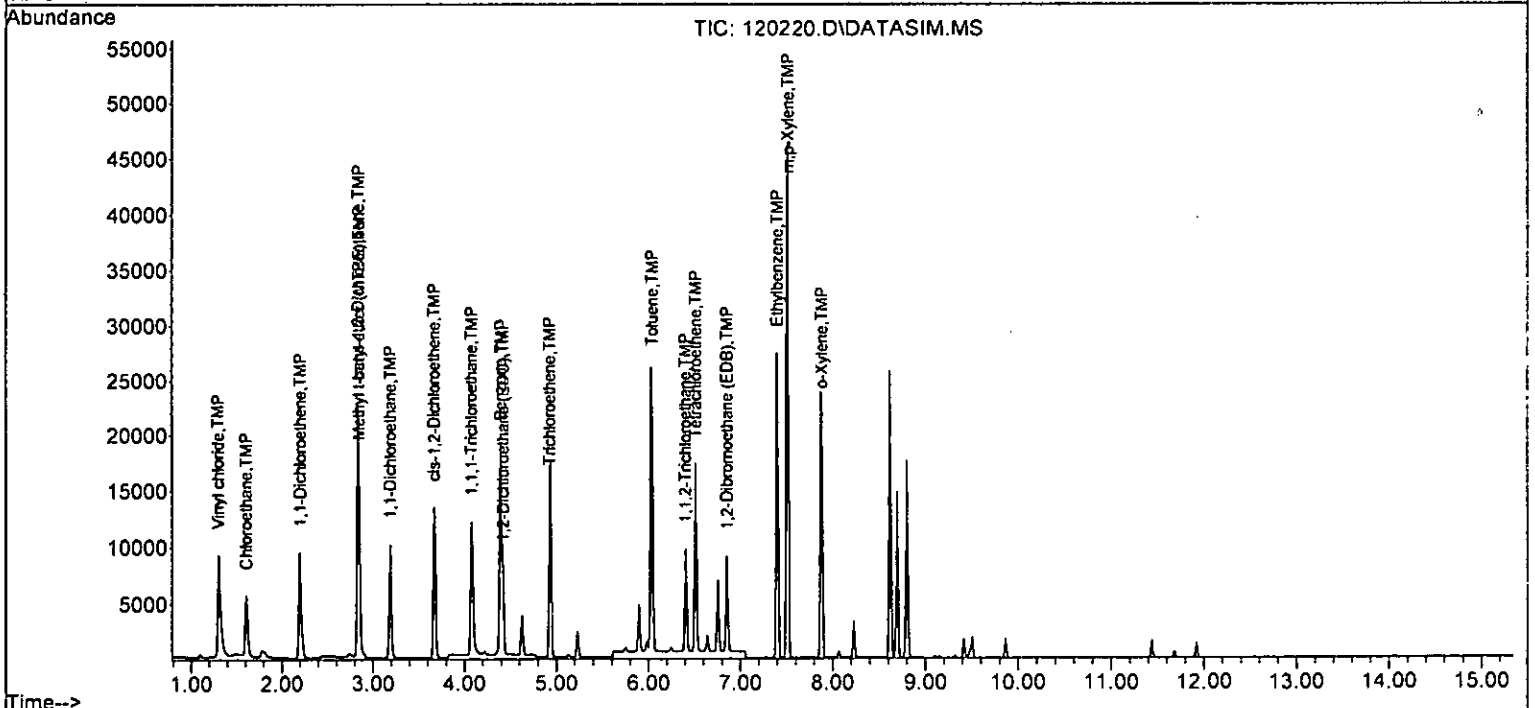
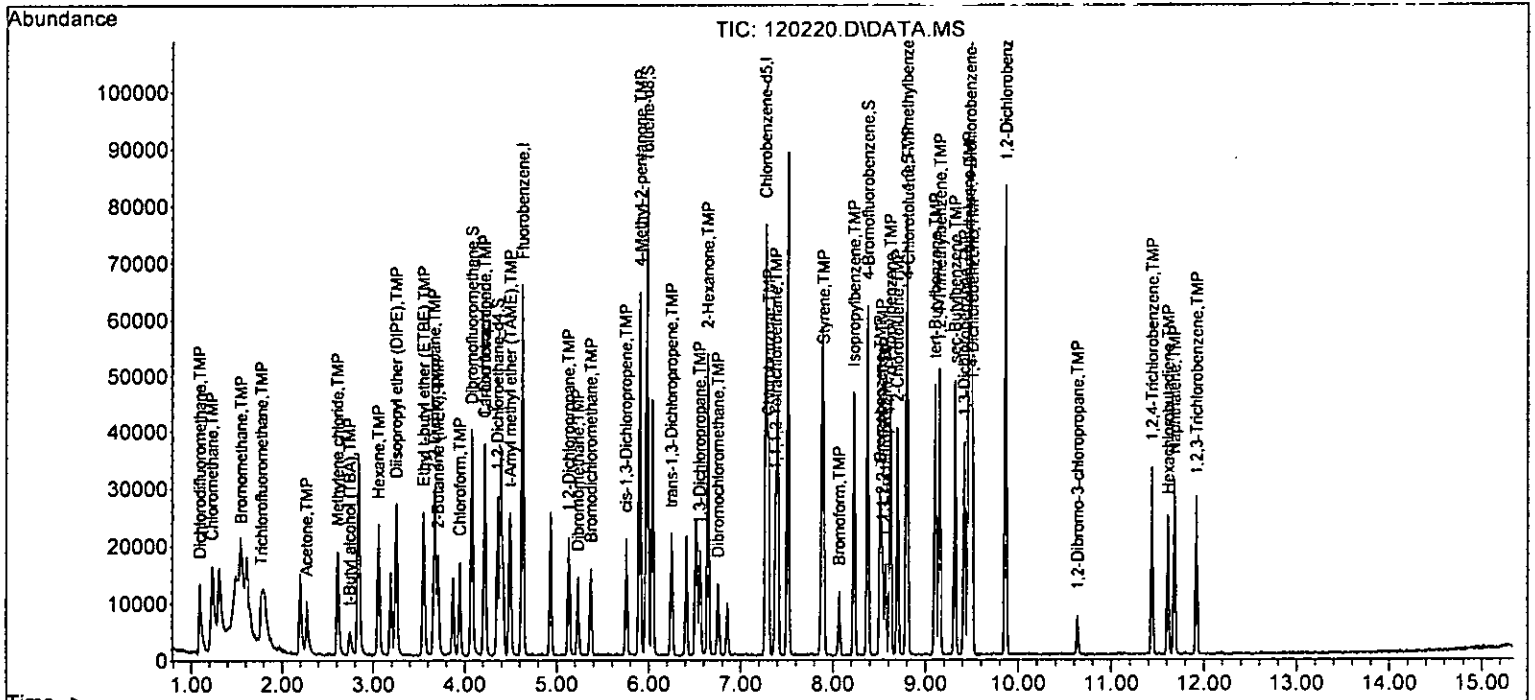
Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	5373	21.882	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	9565	4.761	ppb	91
40] Toluene	6.04	92	15181	4.921	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	8770	4.847	ppb	91
42] 1,1,2-Trichloroethane	6.40	83	4779	4.821	ppb	95
43) 2-Hexanone	6.64	43	28243	25.434	ppb	99
44) 1,3-Dichloropropane	6.55	76	8478	4.911	ppb	94
45] Tetrachloroethene	6.51	164	5721	4.822	ppb	98
46) Dibromochloromethane	6.75	129	6320	4.843	ppb	93
47] 1,2-Dibromoethane (EDB)	6.85	107	5660	4.900	ppb	100
48) Chlorobenzene	7.30	112	15620	4.579	ppb	99
49] Ethylbenzene	7.40	91	29153	5.091	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	6023	4.718	ppb	86
51] m,p-Xylene	7.52	106	21754	9.923	ppb #	74
52] o-Xylene	7.88	106	10625	4.939	ppb	96
53) Styrene	7.90	104	17119	4.783	ppb	92
54) Isopropylbenzene	8.23	105	27794	4.855	ppb	88
55) Bromoform	8.07	173	4427	4.616	ppb	93
58) n-Propylbenzene	8.62	91	31396	4.827	ppb	89
59) Bromobenzene	8.51	156	7456	4.916	ppb	88
60) 1,3,5-Trimethylbenzene	8.80	105	23084	4.843	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	7170	5.089	ppb	74
62) 1,2,3-Trichloropropane	8.57	75	5498	4.780	ppb	96
63) 2-Chlorotoluene	8.70	91	19366	4.908	ppb	98
64) 4-Chlorotoluene	8.81	91	21649	4.786	ppb	95
65) tert-Butylbenzene	9.10	119	20199	4.793	ppb	94
66) 1,2,4-Trimethylbenzene	9.15	105	23871	4.827	ppb	100
67) sec-Butylbenzene	9.31	105	29083	4.791	ppb	98
68) p-Isopropyltoluene	9.46	119	24684	4.748	ppb	94
69) 1,3-Dichlorobenzene	9.42	146	13244	4.693	ppb	91
70) 1,4-Dichlorobenzene	9.50	146	13687	4.758	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	13034	4.987	ppb	91
72) 1,2-Dibromo-3-chloropr...	10.64	75	1478	4.865	ppb	82
73) 1,2,4-Trichlorobenzene	11.44	180	8522	4.534	ppb	94
74) Hexachlorobutadiene	11.61	225	4888	4.936	ppb	97
75) Naphthalene	11.68	128	20755	4.499	ppb	96
76) 1,2,3-Trichlorobenzene	11.92	180	7711	4.533	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	9.979	0.2	100	0.00
4 TMP	Dichlorodifluoromethane	5.000	4.731	5.4	100	0.00
5 TMP	Chloromethane	5.000	4.618	7.6	100	0.00
6 TMP	Vinyl chloride	5.000	4.788	4.2	102	0.00
7 TMP	Bromomethane	5.000	4.370	12.6	120	0.00
8 TMP	Chloroethane	5.000	5.066	-1.3	106	0.00
9 TMP	Trichlorofluoromethane	5.000	4.717	5.7	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	25.000	23.280	6.9	100	0.00
12 TMP	1,1-Dichloroethene	5.000	4.974	0.5	105	0.00
13 TMP	Hexane	5.000	4.631	7.4	100	0.00
14 TMP	Methylene chloride	5.000	5.105	-2.1	100	0.00
15 TMP	t-Butyl alcohol (TBA)	25.000	25.122	-0.5	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	5.000	5.081	-1.6	103	0.00
17 TMP	trans-1,2-Dichloroethene	5.000	5.279	-5.6	107	0.00
18 TMP	Diisopropyl ether (DIPE)	5.000	4.589	8.2	100	0.00
19 TMP	1,1-Dichloroethane	5.000	4.922	1.6	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	5.000	4.631	7.4	100	0.00
21 TMP	2,2-Dichloropropane	5.000	4.999	0.0	100	0.00
22 TMP	cis-1,2-Dichloroethene	5.000	4.888	2.2	100	0.00
23 TMP	Chloroform	5.000	4.710	5.8	100	0.00
24 TMP	2-Butanone (MEK)	25.000	22.943	8.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	5.000	4.805	3.9	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	5.000	4.907	1.9	100	0.00
27 TMP	1,1,1-Trichloroethane	5.000	4.783	4.3	100	0.00
28 TMP	1,1-Dichloropropene	5.000	4.641	7.2	100	0.00
29 TMP	Carbon tetrachloride	5.000	4.839	3.2	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.858	1.4	100	0.00
31 TMP	Benzene	5.000	4.837	3.3	100	0.00
32 TMP	Trichloroethene	5.000	4.837	3.3	100	0.00
33 TMP	1,2-Dichloropropane	5.000	4.534	9.3	100	0.00
34 TMP	Bromodichloromethane	5.000	4.754	4.9	100	0.00
35 S	Toluene-d8	10.000	9.735	2.7	100	0.00
36 TMP	Dibromomethane	5.000	4.582	8.4	100	0.00
37 TMP	4-Methyl-2-pentanone	25.000	21.882	12.5	100	0.00
38 TMP	cis-1,3-Dichloropropene	5.000	4.761	4.8	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	5.000	4.921	1.6	100	0.01
41 TMP	trans-1,3-Dichloropropene	5.000	4.847	3.1	100	0.00
42 TMP	1,1,2-Trichloroethane	5.000	4.821	3.6	100	0.00
43 TMP	2-Hexanone	25.000	25.434	-1.7	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	5.000	4.911	1.8	100	0.00
45 TMP Tetrachloroethene	5.000	4.822	3.6	100	0.00
46 TMP Dibromochloromethane	5.000	4.843	3.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	5.000	4.900	2.0	100	0.00
48 TMP Chlorobenzene	5.000	4.579	8.4	100	0.00
49 TMP Ethylbenzene	5.000	5.091	-1.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	5.000	4.718	5.6	100	0.00
51 TMP m,p-Xylene	10.000	9.923	0.8	100	0.00
52 TMP o-Xylene	5.000	4.939	1.2	100	0.00
53 TMP Styrene	5.000	4.783	4.3	100	0.00
54 TMP Isopropylbenzene	5.000	4.855	2.9	100	0.00
55 TMP Bromoform	5.000	4.616	7.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.171	-1.7	100	0.00
58 TMP n-Propylbenzene	5.000	4.827	3.5	100	0.00
59 TMP Bromobenzene	5.000	4.916	1.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	5.000	4.843	3.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	5.000	5.089	-1.8	100	0.00
62 TMP 1,2,3-Trichloropropane	5.000	4.780	4.4	100	0.00
63 TMP 2-Chlorotoluene	5.000	4.908	1.8	100	0.00
64 TMP 4-Chlorotoluene	5.000	4.786	4.3	100	0.00
65 TMP tert-Butylbenzene	5.000	4.793	4.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	5.000	4.827	3.5	100	0.00
67 TMP sec-Butylbenzene	5.000	4.791	4.2	100	0.00
68 TMP p-Isopropyltoluene	5.000	4.748	5.0	100	0.00
69 TMP 1,3-Dichlorobenzene	5.000	4.693	6.1	100	0.00
70 TMP 1,4-Dichlorobenzene	5.000	4.758	4.8	100	0.00
71 TMP 1,2-Dichlorobenzene	5.000	4.987	0.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	5.000	4.865	2.7	100	0.00
73 TMP 1,2,4-Trichlorobenzene	5.000	4.534	9.3	100	0.00
74 TMP Hexachlorobutadiene	5.000	4.936	1.3	100	0.00
75 TMP Naphthalene	5.000	4.499	10.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	5.000	4.533	9.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	#	-1.86#
3 S Dibromofluoromethane	0.264	0.263	0.4	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.673	5.5	100	0.00
5 TMP Chloromethane	0.951	0.824	13.4	100	0.00
6 TMP Vinyl chloride	0.862	0.719	16.6	102	0.00
7 TMP Bromomethane	0.441	0.523	-18.6	120	0.00
8 TMP Chloroethane	0.341	0.340	0.3	106	0.00
9 TMP Trichlorofluoromethane	0.899	0.848	5.7	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	#	0.00
11 TMP Acetone	0.031	0.029	6.5	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.247	8.9	105	0.00
13 TMP Hexane	0.469	0.412	12.2	100	0.00
14 TMP Methylene chloride	0.269	0.307	-14.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.753	7.3	103	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.283	9.9	107	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.874	8.3	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.491	10.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.285	7.2	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.313	9.8	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.286	13.1	100	0.00
23 TMP Chloroform	0.477	0.449	5.9	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.159	8.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.710	3.9	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.388	19.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.444	10.1	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.342	7.1	100	0.00
29 TMP Carbon tetrachloride	0.396	0.383	3.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.059	1.7	100	0.00
31 TMP Benzene	1.103	0.984	10.8	100	0.00
32 TMP Trichloroethene	0.368	0.309	16.0	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.285	9.5	100	0.00
34 TMP Bromodichloromethane	0.375	0.357	4.8	100	0.00
35 S Toluene-d8	0.975	0.950	2.6	100	0.00
36 TMP Dibromomethane	0.181	0.166	8.3	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.047	13.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.422	4.7	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.852	13.6	100	0.01
41 TMP trans-1,3-Dichloropropene	0.508	0.492	3.1	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.268	6.0	100	0.00
43 TMP 2-Hexanone	0.312	0.317	-1.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120220.D  
 Acq On : 03 Dec 2022 12:02 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-4M  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:45 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.476	1.7	100	0.00
45 TMP Tetrachloroethene	0.420	0.321	23.6#	100	0.00
46 TMP Dibromochloromethane	0.366	0.355	3.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.318	16.1	100	0.00
48 TMP Chlorobenzene	0.957	0.877	8.4	100	0.00
49 TMP Ethylbenzene	1.885	1.636	13.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.338	5.6	100	0.00
51 TMP m,p-Xylene	0.705	0.610	13.5	100	0.00
52 TMP o-Xylene	0.683	0.596	12.7	100	0.00
53 TMP Styrene	1.004	0.961	4.3	100	0.00
54 TMP Isopropylbenzene	1.606	1.560	2.9	100	0.00
55 TMP Bromoform	0.269	0.248	7.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.879	-1.7	100	0.00
58 TMP n-Propylbenzene	3.386	3.269	3.5	100	0.00
59 TMP Bromobenzene	0.790	0.776	1.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.403	3.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.747	-1.9	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.572	4.5	100	0.00
63 TMP 2-Chlorotoluene	2.054	2.016	1.9	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.254	4.3	100	0.00
65 TMP tert-Butylbenzene	2.194	2.103	4.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.485	3.5	100	0.00
67 TMP sec-Butylbenzene	3.160	3.028	4.2	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.570	5.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.379	6.1	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.425	4.9	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.357	0.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.154	2.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.887	9.3	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.509	1.4	100	0.00
75 TMP Naphthalene	2.401	2.161	10.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.803	9.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.896	1.0	100	0.00
4 TMP Dichlorodifluoromethane	10.000	10.035	-0.4	100	0.00
5 TMP Chloromethane	10.000	9.532	4.7	100	0.00
6 TMP Vinyl chloride	10.000	10.328	-3.3	100	0.00
7 TMP Bromomethane	10.000	9.679	3.2	101	0.00
8 TMP Chloroethane	10.000	10.838	-8.4	100	0.00
9 TMP Trichlorofluoromethane	10.000	9.502	5.0	90	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	49.347	1.3	100	0.00
12 TMP 1,1-Dichloroethene	10.000	10.318	-3.2	100	0.00
13 TMP Hexane	10.000	10.067	-0.7	100	0.00
14 TMP Methylene chloride	10.000	9.781	2.2	100	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	49.556	0.9	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.591	-5.9	100	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.777	-7.8	100	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.646	3.5	100	0.00
19 TMP 1,1-Dichloroethane	10.000	10.444	-4.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.326	-3.3	100	0.00
21 TMP 2,2-Dichloropropane	10.000	9.829	1.7	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	10.331	-3.3	100	0.00
23 TMP Chloroform	10.000	9.757	2.4	100	0.00
24 TMP 2-Butanone (MEK)	50.000	54.072	-8.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	9.789	2.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	10.370	-3.7	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.096	-1.0	100	0.00
28 TMP 1,1-Dichloropropene	10.000	9.929	0.7	100	0.00
29 TMP Carbon tetrachloride	10.000	9.984	0.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.097	-1.0	100	0.00
31 TMP Benzene	10.000	10.146	-1.5	100	0.00
32 TMP Trichloroethene	10.000	10.335	-3.4	100	0.00
33 TMP 1,2-Dichloropropane	10.000	9.365	6.3	100	0.00
34 TMP Bromodichloromethane	10.000	9.534	4.7	100	0.00
35 S Toluene-d8	10.000	10.316	-3.2	100	0.00
36 TMP Dibromomethane	10.000	9.706	2.9	100	0.00
37 TMP 4-Methyl-2-pentanone	50.000	50.737	-1.5	100	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.897	1.0	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	10.000	10.088	-0.9	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.993	0.1	100	0.00
42 TMP 1,1,2-Trichloroethane	10.000	9.891	1.1	100	0.00
43 TMP 2-Hexanone	50.000	50.642	-1.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM511\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	9.901	1.0	100	0.00
45 TMP Tetrachloroethene	10.000	9.960	0.4	100	0.00
46 TMP Dibromochloromethane	10.000	9.928	0.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.022	-0.2	100	0.00
48 TMP Chlorobenzene	10.000	9.741	2.6	100	0.00
49 TMP Ethylbenzene	10.000	10.490	-4.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.501	5.0	100	0.00
51 TMP m,p-Xylene	20.000	20.246	-1.2	100	0.00
52 TMP o-Xylene	10.000	10.130	-1.3	100	0.00
53 TMP Styrene	10.000	9.869	1.3	100	0.00
54 TMP Isopropylbenzene	10.000	9.818	1.8	100	0.00
55 TMP Bromoform	10.000	9.603	4.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.896	1.0	100	0.00
58 TMP n-Propylbenzene	10.000	9.921	0.8	100	0.00
59 TMP Bromobenzene	10.000	9.726	2.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.742	2.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.812	1.9	100	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.764	2.4	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.530	4.7	100	0.00
64 TMP 4-Chlorotoluene	10.000	9.733	2.7	100	0.00
65 TMP tert-Butylbenzene	10.000	9.787	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.604	4.0	100	0.00
67 TMP sec-Butylbenzene	10.000	9.850	1.5	100	0.00
68 TMP p-Isopropyltoluene	10.000	9.988	0.1	100	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.571	4.3	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.680	3.2	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.098	-1.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.225	7.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.572	4.3	100	0.00
74 TMP Hexachlorobutadiene	10.000	9.923	0.8	100	0.00
75 TMP Naphthalene	10.000	9.397	6.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.666	3.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.261	1.1	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	0.828	12.9	100	0.00
6 TMP Vinyl chloride	0.862	0.772	10.4	100	0.00
7 TMP Bromomethane	0.441	0.461	-4.5	101	0.00
8 TMP Chloroethane	0.341	0.361	-5.9	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.854	5.0	90	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.031	0.0	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.255	5.9	100	0.00
13 TMP Hexane	0.469	0.432	7.9	100	0.00
14 TMP Methylene chloride	0.269	0.276	-2.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.784	3.4	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.288	8.3	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.919	3.6	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.520	4.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.317	-3.3	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.303	12.7	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.302	8.2	100	0.00
23 TMP Chloroform	0.477	0.465	2.5	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.180	-4.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.723	2.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.408	14.8	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.468	5.3	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.366	0.5	100	0.00
29 TMP Carbon tetrachloride	0.396	0.395	0.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	1.103	1.029	6.7	100	0.00
32 TMP Trichloroethene	0.368	0.329	10.6	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.295	6.3	100	0.00
34 TMP Bromodichloromethane	0.375	0.358	4.5	100	0.00
35 S Toluene-d8	0.975	1.006	-3.2	100	0.00
36 TMP Dibromomethane	0.181	0.176	2.8	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.055	-1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.439	0.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.871	11.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.507	0.2	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.274	3.9	100	0.00
43 TMP 2-Hexanone	0.312	0.316	-1.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.480	0.8	100	0.00
45 TMP Tetrachloroethene	0.420	0.330	21.4#	100	0.00
46 TMP Dibromochloromethane	0.366	0.364	0.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.324	14.5	100	0.00
48 TMP Chlorobenzene	0.957	0.932	2.6	100	0.00
49 TMP Ethylbenzene	1.885	1.680	10.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.340	5.0	100	0.00
51 TMP m,p-Xylene	0.705	0.621	11.9	100	0.00
52 TMP o-Xylene	0.683	0.610	10.7	100	0.00
53 TMP Styrene	1.004	0.991	1.3	100	0.00
54 TMP Isopropylbenzene	1.606	1.577	1.8	100	0.00
55 TMP Bromoform	0.269	0.258	4.1	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.855	1.0	100	0.00
58 TMP n-Propylbenzene	3.386	3.359	0.8	100	0.00
59 TMP Bromobenzene	0.790	0.768	2.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.418	2.6	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.720	1.8	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.585	2.3	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.958	4.7	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.292	2.7	100	0.00
65 TMP tert-Butylbenzene	2.194	2.147	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.473	4.0	100	0.00
67 TMP sec-Butylbenzene	3.160	3.112	1.5	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.703	0.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.406	4.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.450	3.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.374	-1.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.146	7.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.937	4.2	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.512	0.8	100	0.00
75 TMP Naphthalene	2.401	2.257	6.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.856	3.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	43527	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35359	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19116	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	11352	9.896	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.00%		
30) 1,2-Dichloroethane-d4	4.36	102	2620	10.097	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	101.00%		
35) Toluene-d8	5.98	98	43798	10.316	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	103.20%		
57) 4-Bromofluorobenzene	8.38	95	16346	9.896	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	99.00%		
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	1.09	85	31081	10.035	ppb	97	
5) Chloromethane	1.23	50	36022	9.532	ppb	96	
6] Vinyl chloride	1.30	62	33620	10.328	ppb	94	
7) Bromomethane	1.54	94	20057	9.679	ppb	72	
8] Chloroethane	1.61	64	15694	10.838	ppb	83	
9) Trichlorofluoromethane	1.78	101	37188	9.502	ppb	62	
10) 2-Propanol	2.40	45	416	No Calib			
11) Acetone	2.27	58	6702	49.347	ppb	# 84	
12] 1,1-Dichloroethene	2.19	96	11109	10.318	ppb	# 80	
13) Hexane	3.06	57	18819	10.067	ppb	95	
14) Methylene chloride	2.61	84	12000	9.781	ppb	# 80	
15) t-Butyl alcohol (TBA)	2.74	59	9980	49.556	ppb	95	
16] Methyl t-butyl ether (...)	2.84	73	34108	10.591	ppb	99	
17] trans-1,2-Dichloroethene	2.83	96	12535	10.777	ppb	89	
18) Diisopropyl ether (DIPE)	3.24	45	39996	9.646	ppb	98	
19] 1,1-Dichloroethane	3.18	63	22625	10.444	ppb	96	
20) Ethyl t-butyl ether (E...)	3.55	87	13812	10.326	ppb	89	
21) 2,2-Dichloropropane	3.67	77	13178	9.829	ppb	85	
22] cis-1,2-Dichloroethene	3.67	96	13141	10.331	ppb	94	
23) Chloroform	3.94	83	20237	9.757	ppb	95	
24) 2-Butanone (MEK)	3.71	43	39134	54.072	ppb	98	
25) t-Amyl methyl ether (T...)	4.50	73	31473	9.789	ppb	98	
26] 1,2-Dichloroethane (EDC)	4.42	62	17774	10.370	ppb	96	
27] 1,1,1-Trichloroethane	4.08	97	20367	10.096	ppb	97	
28) 1,1-Dichloropropene	4.22	75	15913	9.929	ppb	95	
29) Carbon tetrachloride	4.21	117	17212	9.984	ppb	95	
31] Benzene	4.39	78	44807	10.146	ppb	93	
32] Trichloroethene	4.93	95	14336	10.335	ppb	95	
33) 1,2-Dichloropropane	5.13	63	12834	9.365	ppb	100	
34) Bromodichloromethane	5.37	83	15573	9.534	ppb	92	
36) Dibromomethane	5.23	93	7661	9.706	ppb	# 80	



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

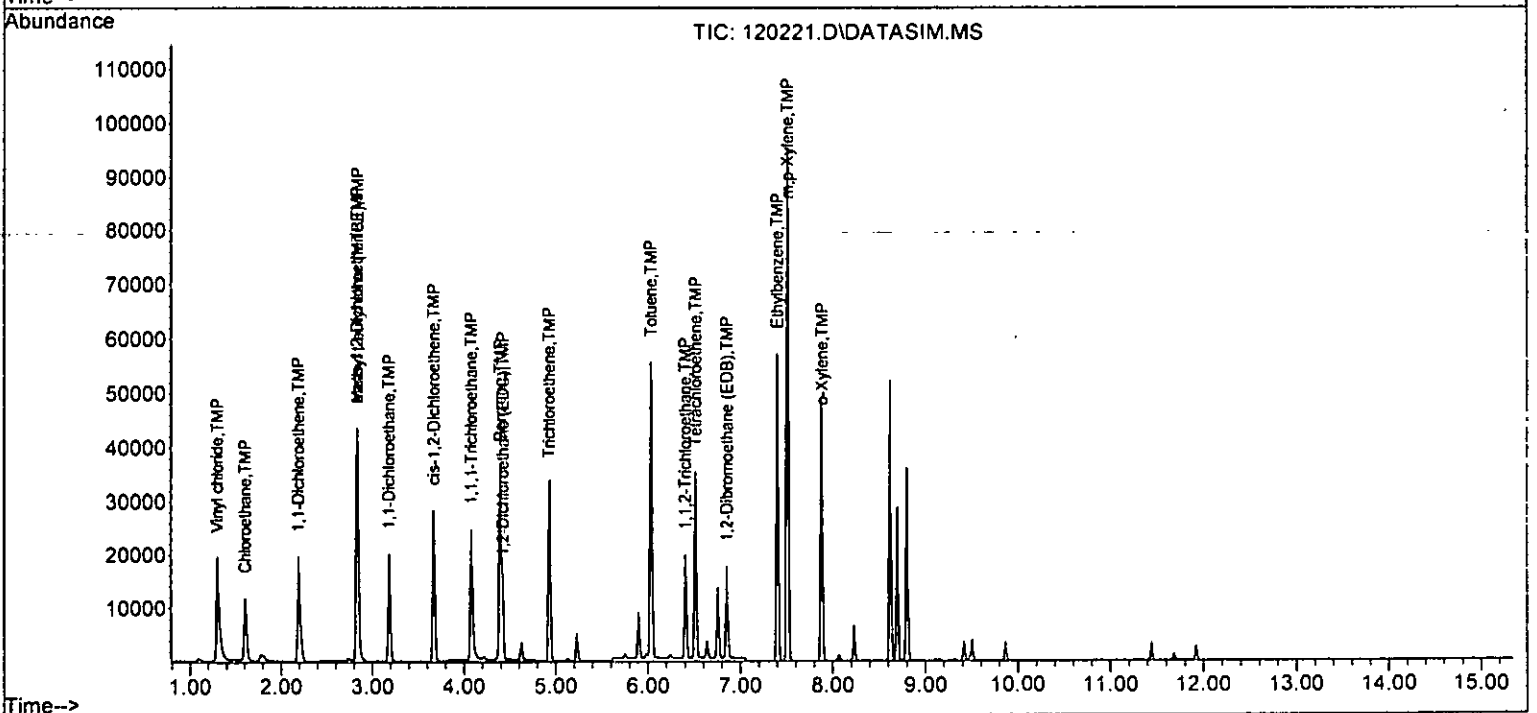
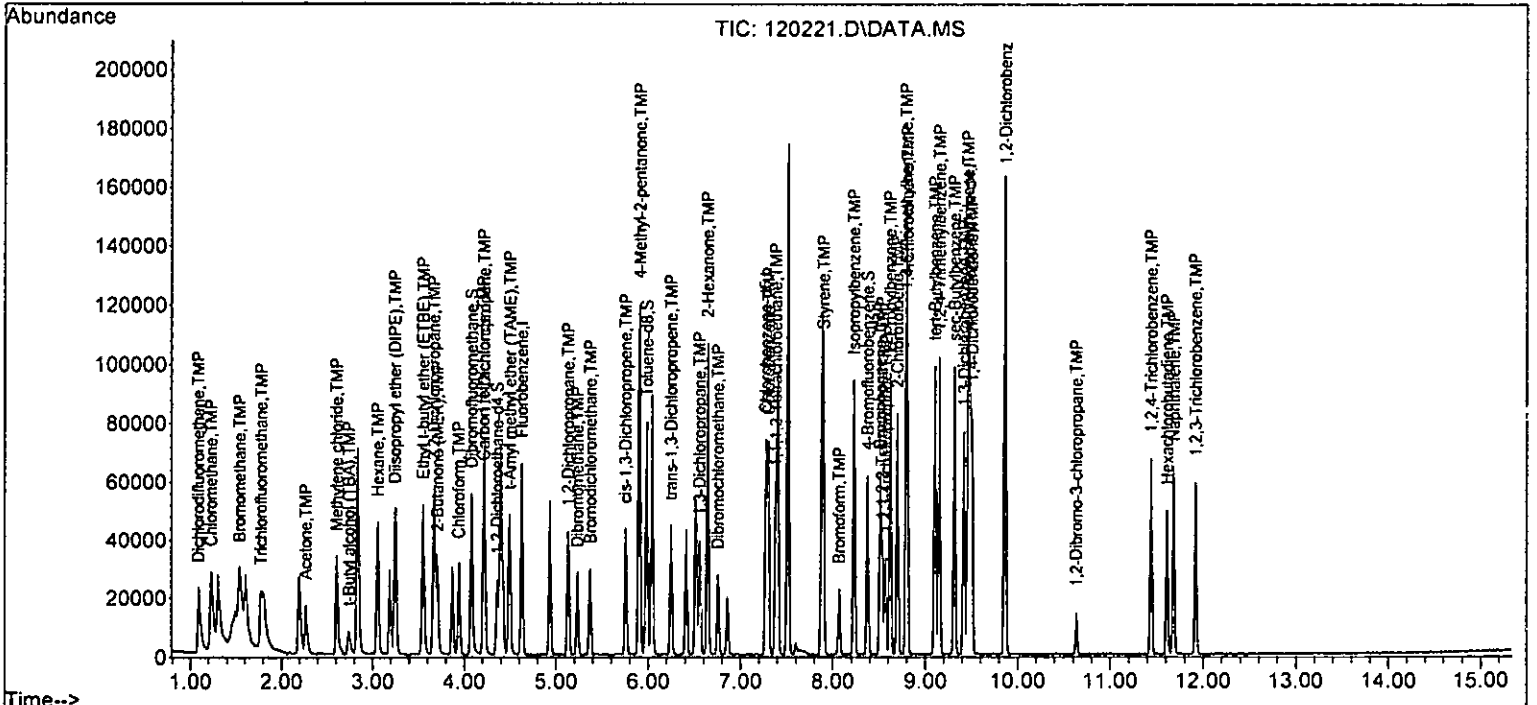
Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11958	50.737	ppb	94
38) cis-1,3-Dichloropropene	5.75	75	19087	9.897	ppb	94
40] Toluene	6.03	92	30787	10.088	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	17937	9.993	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	9694	9.891	ppb	98
43) 2-Hexanone	6.64	43	55790	50.642	ppb	99
44) 1,3-Dichloropropane	6.55	76	16957	9.901	ppb	98
45] Tetrachloroethene	6.51	164	11651	9.960	ppb	99
46) Dibromochloromethane	6.75	129	12853	9.928	ppb	88
47] 1,2-Dibromoethane (EDB)	6.85	107	11445	10.022	ppb	100
48) Chlorobenzene	7.30	112	32968	9.741	ppb	96
49] Ethylbenzene	7.40	91	59389	10.490	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	12033	9.501	ppb #	75
51] m,p-Xylene	7.51	106	43904	20.246	ppb	98
52] o-Xylene	7.89	106	21562	10.130	ppb	99
53) Styrene	7.90	104	35041	9.869	ppb	95
54) Isopropylbenzene	8.23	105	55761	9.818	ppb	97
55) Bromoform	8.07	173	9136	9.603	ppb	93
58) n-Propylbenzene	8.62	91	64216	9.921	ppb	91
59) Bromobenzene	8.51	156	14679	9.726	ppb	77
60) 1,3,5-Trimethylbenzene	8.79	105	46214	9.742	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	13758	9.812	ppb	78
62) 1,2,3-Trichloropropane	8.57	75	11175	9.764	ppb	89
63) 2-Chlorotoluene	8.70	91	37422	9.530	ppb	99
64) 4-Chlorotoluene	8.81	91	43818	9.733	ppb	93
65) tert-Butylbenzene	9.10	119	41042	9.787	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	47268	9.604	ppb	100
67) sec-Butylbenzene	9.31	105	59498	9.850	ppb	95
68) p-Isopropyltoluene	9.46	119	51671	9.988	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	26878	9.571	ppb	88
70) 1,4-Dichlorobenzene	9.50	146	27712	9.680	ppb	96
71) 1,2-Dichlorobenzene	9.86	146	26264	10.098	ppb	94
72) 1,2-Dibromo-3-chloropr...	10.63	75	2789	9.225	ppb	92
73) 1,2,4-Trichlorobenzene	11.44	180	17904	9.572	ppb	99
74) Hexachlorobutadiene	11.61	225	9780	9.923	ppb	94
75) Naphthalene	11.68	128	43136	9.397	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	16362	9.666	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120221.D  
 Acq On : 03 Dec 2022 12:25 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-4N  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:49 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq Dn : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.133	-1.3	100	0.00
4 TMP Dichlorodifluoromethane	20.000	19.723	1.4	100	0.00
5 TMP Chloromethane	20.000	19.290	3.6	100	0.00
6 TMP Vinyl chloride	20.000	19.864	0.7	100	0.00
7 TMP Bromomethane	20.000	19.453	2.7	100	0.00
8 TMP Chloroethane	20.000	20.035	-0.2	100	0.00
9 TMP Trichlorofluoromethane	20.000	19.124	4.4	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	100.000	92.609	7.4	100	0.00
12 TMP 1,1-Dichloroethene	20.000	19.649	1.8	100	0.00
13 TMP Hexane	20.000	19.637	1.8	100	0.00
14 TMP Methylene chloride	20.000	19.864	0.7	100	0.00
15 TMP t-Butyl alcohol (TBA)	100.000	92.949	7.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	20.000	20.384	-1.9	100	0.00
17 TMP trans-1,2-Dichloroethene	20.000	20.378	-1.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	20.000	18.603	7.0	100	0.00
19 TMP 1,1-Dichloroethane	20.000	20.002	-0.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	20.000	19.533	2.3	100	0.00
21 TMP 2,2-Dichloropropane	20.000	21.356	-6.8	100	0.00
22 TMP cis-1,2-Dichloroethene	20.000	19.907	0.5	100	0.00
23 TMP Chloroform	20.000	19.232	3.8	100	0.00
24 TMP 2-Butanone (MEK)	100.000	101.636	-1.6	100	0.00
25 TMP t-Amyl methyl ether (TAME)	20.000	19.270	3.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	20.000	19.892	0.5	100	0.00
27 TMP 1,1,1-Trichloroethane	20.000	19.496	2.5	100	0.00
28 TMP 1,1-Dichloropropene	20.000	19.422	2.9	100	0.00
29 TMP Carbon tetrachloride	20.000	19.060	4.7	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.112	-1.1	100	0.00
31 TMP Benzene	20.000	19.518	2.4	100	0.00
32 TMP Trichloroethene	20.000	20.002	-0.0	100	0.00
33 TMP 1,2-Dichloropropane	20.000	17.940	10.3	100	0.00
34 TMP Bromodichloromethane	20.000	18.740	6.3	100	0.00
35 S Toluene-d8	10.000	10.114	-1.1	100	0.00
36 TMP Dibromomethane	20.000	18.482	7.6	100	0.00
37 TMP 4-Methyl-2-pentanone	100.000	97.075	2.9	100	0.00
38 TMP cis-1,3-Dichloropropene	20.000	18.649	6.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	20.000	19.624	1.9	100	0.00
41 TMP trans-1,3-Dichloropropene	20.000	19.243	3.8	100	0.00
42 TMP 1,1,2-Trichloroethane	20.000	19.237	3.8	100	0.00
43 TMP 2-Hexanone	100.000	98.546	1.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	20.000	19.134	4.3	100	0.00
45 TMP Tetrachloroethene	20.000	19.413	2.9	100	0.00
46 TMP Dibromochloromethane	20.000	19.297	3.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	20.000	19.654	1.7	100	0.00
48 TMP Chlorobenzene	20.000	18.826	5.9	100	0.00
49 TMP Ethylbenzene	20.000	20.297	-1.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	20.000	18.994	5.0	100	0.00
51 TMP m,p-Xylene	40.000	39.009	2.5	100	0.00
52 TMP o-Xylene	20.000	19.602	2.0	100	0.00
53 TMP Styrene	20.000	19.080	4.6	100	0.00
54 TMP Isopropylbenzene	20.000	19.133	4.3	100	0.00
55 TMP Bromoform	20.000	18.984	5.1	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.928	0.7	100	0.00
58 TMP n-Propylbenzene	20.000	18.931	5.3	100	0.00
59 TMP Bromobenzene	20.000	18.698	6.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	20.000	18.733	6.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	20.000	19.466	2.7	100	0.00
62 TMP 1,2,3-Trichloropropane	20.000	18.609	7.0	100	0.00
63 TMP 2-Chlorotoluene	20.000	18.460	7.7	100	0.00
64 TMP 4-Chlorotoluene	20.000	18.756	6.2	100	0.00
65 TMP tert-Butylbenzene	20.000	18.989	5.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	20.000	18.736	6.3	100	0.00
67 TMP sec-Butylbenzene	20.000	19.097	4.5	100	0.00
68 TMP p-Isopropyltoluene	20.000	19.361	3.2	100	0.00
69 TMP 1,3-Dichlorobenzene	20.000	18.505	7.5	100	0.00
70 TMP 1,4-Dichlorobenzene	20.000	18.585	7.1	100	0.00
71 TMP 1,2-Dichlorobenzene	20.000	19.213	3.9	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	20.000	19.320	3.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	20.000	18.879	5.6	100	0.00
74 TMP Hexachlorobutadiene	20.000	19.965	0.2	100	0.00
75 TMP Naphthalene	20.000	18.689	6.6	100	0.00
76 TMP 1,2,3-Trichlorobenzene	20.000	19.114	4.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	#	-1.86#
3 S Dibromofluoromethane	0.264	0.267	-1.1	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.702	1.4	100	0.00
5 TMP Chloromethane	0.951	0.827	13.0	100	0.00
6 TMP Vinyl chloride	0.862	0.742	13.9	100	0.00
7 TMP Bromomethane	0.441	0.414	6.1	100	0.00
8 TMP Chloroethane	0.341	0.332	2.6	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.860	4.3	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	#	0.00
11 TMP Acetone	0.031	0.029	6.5	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.243	10.3	100	0.00
13 TMP Hexane	0.469	0.415	11.5	100	0.00
14 TMP Methylene chloride	0.269	0.269	0.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.043	6.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.753	7.3	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.272	13.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.886	7.0	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.497	9.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.300	2.3	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.326	6.1	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.291	11.6	100	0.00
23 TMP Chloroform	0.477	0.458	4.0	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.167	3.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.712	3.7	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.391	18.4	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.452	8.5	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.358	2.7	100	0.00
29 TMP Carbon tetrachloride	0.396	0.377	4.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	1.103	0.988	10.4	100	0.00
32 TMP Trichloroethene	0.368	0.318	13.6	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.282	10.5	100	0.00
34 TMP Bromodichloromethane	0.375	0.352	6.1	100	0.00
35 S Toluene-d8	0.975	0.987	-1.2	100	0.00
36 TMP Dibromomethane	0.181	0.168	7.2	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.053	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.413	6.8	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.846	14.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.488	3.9	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.266	6.7	100	0.00
43 TMP 2-Hexanone	0.312	0.307	1.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.463	4.3	100	0.00
45 TMP Tetrachloroethene	0.420	0.320	23.8#	100	0.00
46 TMP Dibromochloromethane	0.366	0.353	3.6	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.317	16.4	100	0.00
48 TMP Chlorobenzene	0.957	0.901	5.9	100	0.00
49 TMP Ethylbenzene	1.885	1.622	14.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.340	5.0	100	0.00
51 TMP m,p-Xylene	0.705	0.597	15.3	100	0.00
52 TMP o-Xylene	0.683	0.589	13.8	100	0.00
53 TMP Styrene	1.004	0.958	4.6	100	0.00
54 TMP Isopropylbenzene	1.606	1.537	4.3	100	0.00
55 TMP Bromoform	0.269	0.255	5.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.858	0.7	100	0.00
58 TMP n-Propylbenzene	3.386	3.205	5.3	100	0.00
59 TMP Bromobenzene	0.790	0.738	6.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.324	6.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.714	2.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.557	7.0	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.896	7.7	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.209	6.2	100	0.00
65 TMP tert-Butylbenzene	2.194	2.083	5.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.412	6.3	100	0.00
67 TMP sec-Butylbenzene	3.160	3.017	4.5	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.620	3.2	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.359	7.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.392	7.1	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.307	4.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.153	3.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.924	5.5	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.515	0.2	100	0.00
75 TMP Naphthalene	2.401	2.244	6.5	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.846	4.4	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	43532	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	34868	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19084	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11625	10.133	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.30%	
30) 1,2-Dichloroethane-d4	4.36	102	2624	10.112	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	101.10%	
35) Toluene-d8	5.98	98	42947	10.114	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	101.10%	
57) 4-Bromofluorobenzene	8.38	95	16370	9.928	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	99.30%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	61092	19.723	ppb		96
5) Chloromethane	1.22	50	71971	19.290	ppb		98
6] Vinyl chloride	1.29	62	64585	19.864	ppb		92
7) Bromomethane	1.53	94	36028	19.453	ppb		69
8] Chloroethane	1.60	64	28912	20.035	ppb		84
9) Trichlorofluoromethane	1.77	101	74856	19.124	ppb		78
10) 2-Propanol	2.39	45	276	No Calib			
11) Acetone	2.26	58	12579	92.609	ppb	#	86
12] 1,1-Dichloroethene	2.19	96	21140	19.649	ppb		93
13) Hexane	3.05	57	36154	19.637	ppb		94
14) Methylene chloride	2.61	84	23449	19.864	ppb		86
15) t-Butyl alcohol (TBA)	2.73	59	18721	92.949	ppb		99
16] Methyl t-butyl ether (...)	2.84	73	65598	20.384	ppb		95
17] trans-1,2-Dichloroethene	2.83	96	23671	20.378	ppb		97
18) Diisopropyl ether (DIPE)	3.24	45	77143	18.603	ppb		100
19] 1,1-Dichloroethane	3.18	63	43299	20.002	ppb		99
20) Ethyl t-butyl ether (E...)	3.55	87	26132	19.533	ppb		94
21) 2,2-Dichloropropane	3.67	77	28355	21.356	ppb		89
22] cis-1,2-Dichloroethene	3.67	96	25297	19.907	ppb		99
23) Chloroform	3.94	83	39895	19.232	ppb		92
24) 2-Butanone (MEK)	3.70	43	72563	101.636	ppb		96
25) t-Amyl methyl ether (T...)	4.49	73	61962	19.270	ppb		97
26] 1,2-Dichloroethane (EDC)	4.41	62	34034	19.892	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	39310	19.496	ppb		99
28) 1,1-Dichloropropene	4.22	75	31132	19.422	ppb		93
29) Carbon tetrachloride	4.21	117	32861	19.060	ppb		98
31] Benzene	4.39	78	85989	19.518	ppb		99
32] Trichloroethene	4.93	95	27711	20.002	ppb		99
33) 1,2-Dichloropropane	5.13	63	24588	17.940	ppb		100
34) Bromodichloromethane	5.37	83	30612	18.740	ppb		98
36) Dibromomethane	5.23	93	14589	18.482	ppb	#	74

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Oval Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

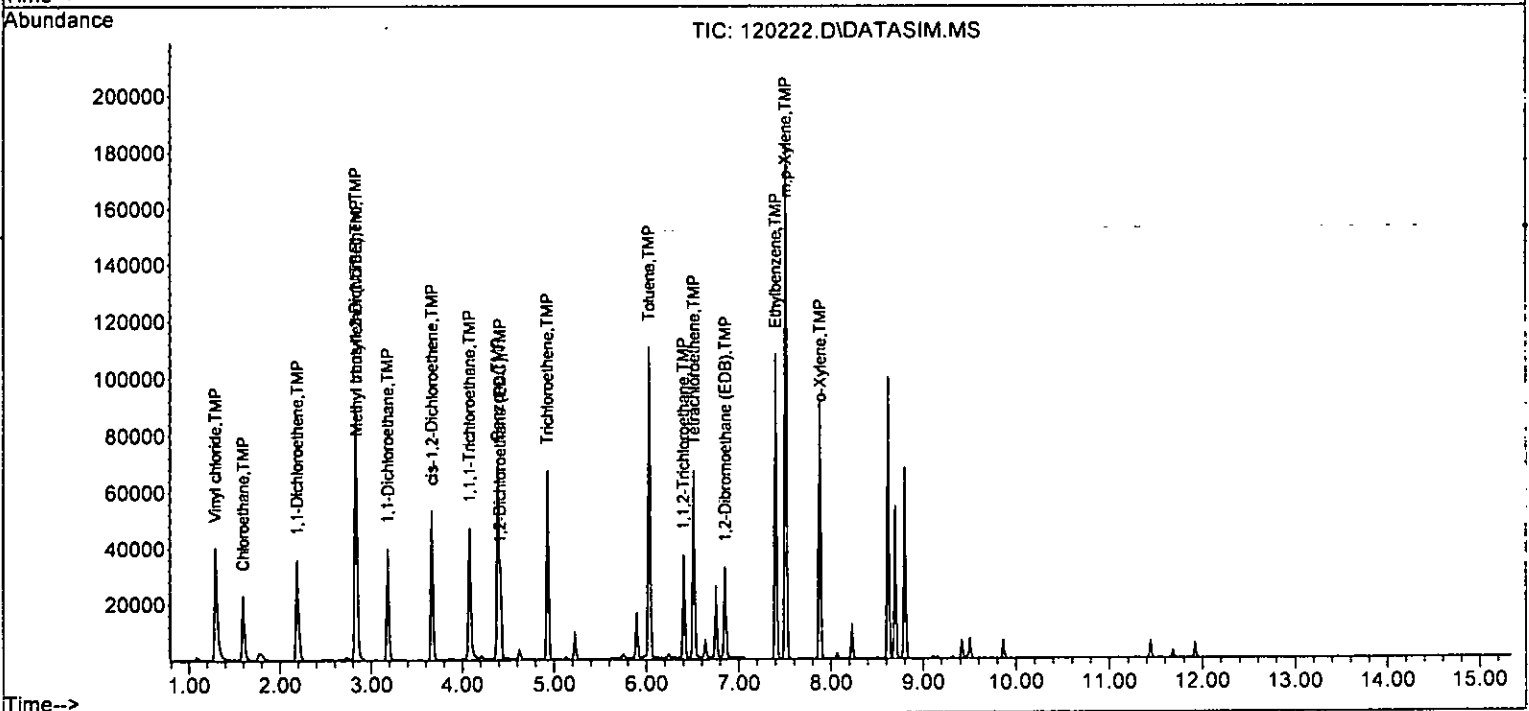
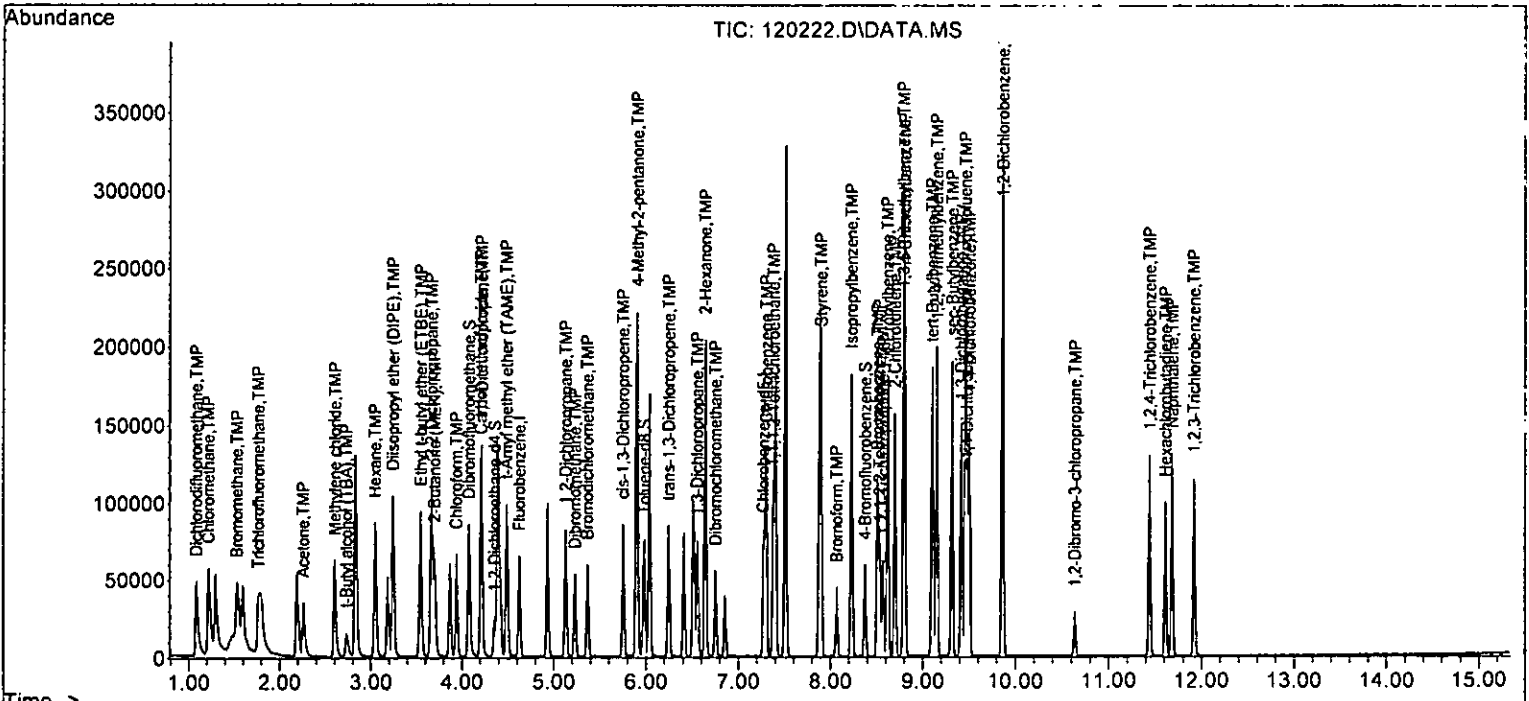
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	22882	97.075	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	35969	18.649	ppb	95
40] Toluene	6.03	92	58980	19.624	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	34060	19.243	ppb	94
42] 1,1,2-Trichloroethane	6.40	83	18541	19.237	ppb	99
43) 2-Hexanone	6.64	43	107056	98.546	ppb	98
44) 1,3-Dichloropropane	6.55	76	32316	19.134	ppb	94
45] Tetrachloroethene	6.51	164	22309	19.413	ppb	99
46) Dibromochloromethane	6.75	129	24637	19.297	ppb	100
47] 1,2-Dibromoethane (ED8)	6.85	107	22097	19.654	ppb	99
48) Chlorobenzene	7.30	112	62831	18.826	ppb	98
49] Ethylbenzene	7.40	91	113136	20.297	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	23722	18.994	ppb #	79
51] m,p-Xylene	7.51	106	83303	39.009	ppb	99
52] o-Xylene	7.88	106	41094	19.602	ppb	98
53) Styrene	7.90	104	66806	19.080	ppb	92
54) Isopropylbenzene	8.23	105	107154	19.133	ppb	92
55) Bromoform	8.07	173	17810	18.984	ppb	93
58) n-Propylbenzene	8.62	91	122331	18.931	ppb	94
59) Bromobenzene	8.51	156	28172	18.698	ppb	86
60) 1,3,5-Trimethylbenzene	8.79	105	88719	18.733	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.53	83	27248	19.466	ppb	78
62) 1,2,3-Trichloropropane	8.57	75	21263	18.609	ppb	90
63) 2-Chlorotoluene	8.70	91	72370	18.460	ppb	99
64) 4-Chlorotoluene	8.81	91	84296	18.756	ppb	98
65) tert-Butylbenzene	9.10	119	79497	18.989	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	92061	18.736	ppb	100
67) sec-Butylbenzene	9.32	105	115158	19.097	ppb	96
68) p-Isopropyltoluene	9.46	119	99996	19.361	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	51877	18.505	ppb	95
70) 1,4-Dichlorobenzene	9.50	146	53117	18.585	ppb	96
71) 1,2-Dichlorobenzene	9.86	146	49890	19.213	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.64	75	5831	19.320	ppb	94
73) 1,2,4-Trichlorobenzene	11.44	180	35252	18.879	ppb	95
74) Hexachlorobutadiene	11.61	225	19644	19.965	ppb	89
75) Naphthalene	11.68	128	85647	18.689	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	32300	19.114	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120222.D  
 Acq On : 03 Dec 2022 12:49 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-40  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:53 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-0.02
3 S Dibromofluoromethane	10.000	9.881	1.2	100	0.00
4 TMP Dichlorodifluoromethane	50.000	51.003	-2.0	100	0.00
5 TMP Chloromethane	50.000	50.099	-0.2	100	0.00
6 TMP Vinyl chloride	50.000	50.837	-1.7	100	0.00
7 TMP Bromomethane	50.000	51.025	-2.0	100	0.00
8 TMP Chloroethane	50.000	53.741	-7.5	100	-0.02
9 TMP Trichlorofluoromethane	50.000	49.215	1.6	100	-0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	250.000	231.545	7.4	100	-0.02
12 TMP 1,1-Dichloroethene	50.000	51.092	-2.2	100	0.00
13 TMP Hexane	50.000	50.423	-0.8	100	0.00
14 TMP Methylene chloride	50.000	50.301	-0.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	250.000	245.809	1.7	100	-0.02
16 TMP Methyl t-butyl ether (MTBE)	50.000	51.055	-2.1	100	0.00
17 TMP trans-1,2-Dichloroethene	50.000	50.934	-1.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	50.000	47.300	5.4	100	0.00
19 TMP 1,1-Dichloroethane	50.000	51.069	-2.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	50.000	49.440	1.1	100	0.00
21 TMP 2,2-Dichloropropane	50.000	53.753	-7.5	100	0.00
22 TMP cis-1,2-Dichloroethene	50.000	50.551	-1.1	100	0.00
23 TMP Chloroform	50.000	48.941	2.1	100	0.00
24 TMP 2-Butanone (MEK)	250.000	240.961	3.6	100	0.00
25 TMP t-Amyl methyl ether (TAME)	50.000	48.304	3.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	50.000	50.680	-1.4	100	0.00
27 TMP 1,1,1-Trichloroethane	50.000	49.880	0.2	100	0.00
28 TMP 1,1-Dichloropropene	50.000	49.985	0.0	100	0.00
29 TMP Carbon tetrachloride	50.000	49.903	0.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.541	-5.4	100	0.00
31 TMP Benzene	50.000	49.692	0.6	100	0.00
32 TMP Trichloroethene	50.000	48.829	2.3	100	0.00
33 TMP 1,2-Dichloropropane	50.000	46.613	6.8	100	0.00
34 TMP Bromodichloromethane	50.000	48.415	3.2	100	0.00
35 S Toluene-d8	10.000	10.156	-1.6	100	0.00
36 TMP Dibromomethane	50.000	48.548	2.9	100	0.00
37 TMP 4-Methyl-2-pentanone	250.000	244.069	2.4	100	-0.01
38 TMP cis-1,3-Dichloropropene	50.000	49.025	2.0	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	50.000	49.751	0.5	100	0.00
41 TMP trans-1,3-Dichloropropene	50.000	50.284	-0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	50.000	49.606	0.8	100	0.00
43 TMP 2-Hexanone	250.000	244.630	2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	50.000	48.945	2.1	100	0.00
45 TMP Tetrachloroethene	50.000	49.735	0.5	100	0.00
46 TMP Dibromochloromethane	50.000	50.563	-1.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	50.000	50.558	-1.1	100	0.00
48 TMP Chlorobenzene	50.000	48.540	2.9	100	0.00
49 TMP Ethylbenzene	50.000	51.005	-2.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	50.000	49.093	1.8	100	0.00
51 TMP m,p-Xylene	100.000	97.907	2.1	100	0.00
52 TMP o-Xylene	50.000	49.094	1.8	100	0.00
53 TMP Styrene	50.000	48.659	2.7	100	0.00
54 TMP Isopropylbenzene	50.000	47.951	4.1	100	0.00
55 TMP Bromoform	50.000	48.399	3.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 5 4-Bromofluorobenzene	10.000	9.748	2.5	100	0.00
58 TMP n-Propylbenzene	50.000	49.444	1.1	100	0.00
59 TMP Bromobenzene	50.000	49.118	1.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	50.000	48.005	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	50.000	53.244	-6.5	100	0.00
62 TMP 1,2,3-Trichloropropane	50.000	49.462	1.1	100	0.00
63 TMP 2-Chlorotoluene	50.000	47.317	5.4	100	0.00
64 TMP 4-Chlorotoluene	50.000	47.663	4.7	100	0.00
65 TMP tert-Butylbenzene	50.000	49.178	1.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	50.000	47.900	4.2	100	0.00
67 TMP sec-Butylbenzene	50.000	49.606	0.8	100	0.00
68 TMP p-Isopropyltoluene	50.000	50.215	-0.4	100	0.00
69 TMP 1,3-Dichlorobenzene	50.000	48.520	3.0	100	0.00
70 TMP 1,4-Dichlorobenzene	50.000	47.890	4.2	100	0.00
71 TMP 1,2-Dichlorobenzene	50.000	50.425	-0.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	50.000	48.924	2.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	50.000	50.111	-0.2	100	0.00
74 TMP Hexachlorobutadiene	50.000	52.119	-4.2	100	0.00
75 TMP Naphthalene	50.000	48.976	2.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	50.000	50.801	-1.6	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-0.02
3 S	Dibromofluoromethane	0.264	0.260	1.5	100	0.00
4 TMP	Dichlorodifluoromethane	0.712	0.726	-2.0	100	0.00
5 TMP	Chloromethane	0.951	0.852	10.4	100	0.00
6 TMP	Vinyl chloride	0.862	0.759	11.9	100	0.00
7 TMP	Bromomethane	0.441	0.402	8.8	100	0.00
8 TMP	Chloroethane	0.341	0.355	-4.1	100	-0.02
9 TMP	Trichlorofluoromethane	0.899	0.885	1.6	100	-0.02
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.031	0.029	6.5	100	-0.02
12 TMP	1,1-Dichloroethene	0.271	0.252	7.0	100	0.00
13 TMP	Hexane	0.469	0.422	10.0	100	0.00
14 TMP	Methylene chloride	0.269	0.265	1.5	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	-0.02
16 TMP	Methyl t-butyl ether (MTBE)	0.812	0.754	7.1	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.314	0.272	13.4	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.953	0.901	5.5	100	0.00
19 TMP	1,1-Dichloroethane	0.547	0.508	7.1	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.307	0.304	1.0	100	0.00
21 TMP	2,2-Dichloropropane	0.347	0.326	6.1	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.329	0.295	10.3	100	0.00
23 TMP	Chloroform	0.477	0.466	2.3	100	0.00
24 TMP	2-Butanone (MEK)	0.173	0.157	9.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.739	0.714	3.4	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.479	0.398	16.9	100	0.00
27 TMP	1,1,1-Trichloroethane	0.494	0.462	6.5	100	0.00
28 TMP	1,1-Dichloropropene	0.368	0.368	0.0	100	0.00
29 TMP	Carbon tetrachloride	0.396	0.395	0.3	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.063	-5.0	100	0.00
31 TMP	Benzene	1.103	1.000	9.3	100	0.00
32 TMP	Trichloroethene	0.368	0.311	15.5	100	0.00
33 TMP	1,2-Dichloropropane	0.315	0.294	6.7	100	0.00
34 TMP	Bromodichloromethane	0.375	0.363	3.2	100	0.00
35 S	Toluene-d8	0.975	0.991	-1.6	100	0.00
36 TMP	Dibromomethane	0.181	0.176	2.8	100	0.00
37 TMP	4-Methyl-2-pentanone	0.054	0.053	1.9	100	-0.01
38 TMP	cis-1,3-Dichloropropene	0.443	0.434	2.0	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.986	0.857	13.1	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.508	0.511	-0.6	100	0.00
42 TMP	1,1,2-Trichloroethane	0.285	0.273	4.2	100	0.00
43 TMP	2-Hexanone	0.312	0.305	2.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.474	2.1	100	0.00
45 TMP Tetrachloroethene	0.420	0.326	22.4#	100	0.00
46 TMP Dibromochloromethane	0.366	0.370	-1.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.326	14.0	100	0.00
48 TMP Chlorobenzene	0.957	0.929	2.9	100	0.00
49 TMP Ethylbenzene	1.885	1.629	13.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.352	1.7	100	0.00
51 TMP m,p-Xylene	0.705	0.599	15.0	100	0.00
52 TMP o-Xylene	0.683	0.590	13.6	100	0.00
53 TMP Styrene	1.004	0.977	2.7	100	0.00
54 TMP Isopropylbenzene	1.606	1.540	4.1	100	0.00
55 TMP Bromoform	0.269	0.260	3.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.842	2.5	100	0.00
58 TMP n-Propylbenzene	3.386	3.348	1.1	100	0.00
59 TMP Bromobenzene	0.790	0.776	1.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.383	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.781	-6.5	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.592	1.2	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.944	5.4	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.245	4.7	100	0.00
65 TMP tert-Butylbenzene	2.194	2.158	1.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.467	4.2	100	0.00
67 TMP sec-Butylbenzene	3.160	3.135	0.8	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.718	-0.4	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.426	2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.434	4.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.372	-0.8	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.155	1.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.981	-0.3	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.537	-4.1	100	0.00
75 TMP Naphthalene	2.401	2.352	2.0	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.900	-1.7	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	42665	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	34502	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	18362	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	11110	9.881	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.80%
30) 1,2-Dichloroethane-d4	4.35	102	2681	10.541	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	105.40%
35) Toluene-d8	5.98	98	42264	10.156	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	101.60%
57) 4-Bromofluorobenzene	8.38	95	15466	9.748	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	97.50%
Target Compounds						
2) Ethanol	1.85	45	63	No Calib		Qvalue
4) Dichlorodifluoromethane	1.08	85	154838	51.003	ppb	100
5) Chloromethane	1.22	50	181760	50.099	ppb	100
6] Vinyl chloride	1.29	62	161848	50.837	ppb	95
7) Bromomethane	1.53	94	85862	51.025	ppb	66
8] Chloroethane	1.59	64	75807	53.741	ppb	82
9) Trichlorofluoromethane	1.76	101	188805	49.215	ppb	71
10) 2-Propanol	2.40	45	494	No Calib		
11) Acetone	2.25	58	30824	231.545	ppb	87
12] 1,1-Dichloroethene	2.18	96	53843	51.092	ppb	89
13) Hexane	3.05	57	90084	50.423	ppb	93
14) Methylene chloride	2.60	84	56562	50.301	ppb	85
15) t-Butyl alcohol (TBA)	2.72	59	48523	245.809	ppb	97
16] Methyl t-butyl ether (...)	2.83	73	160937	51.055	ppb	97
17] trans-1,2-Dichloroethene	2.82	96	57927	50.934	ppb	91
18) Diisopropyl ether (DIPE)	3.24	45	192240	47.300	ppb	98
19] 1,1-Dichloroethane	3.17	63	108283	51.069	ppb	96
20) Ethyl t-butyl ether (E...)	3.54	87	64824	49.440	ppb	95
21) 2,2-Dichloropropane	3.66	77	69591	53.753	ppb	94
22] cis-1,2-Dichloroethene	3.66	96	62912	50.551	ppb	90
23) Chloroform	3.94	83	99500	48.941	ppb	91
24) 2-Butanone (MEK)	3.70	43	167074	240.961	ppb	98
25) t-Amyl methyl ether (T...)	4.49	73	152224	48.304	ppb	98
26] 1,2-Dichloroethane (EDC)	4.41	62	84876	50.680	ppb	99
27] 1,1,1-Trichloroethane	4.08	97	98529	49.880	ppb	97
28) 1,1-Dichloropropene	4.21	75	78525	49.985	ppb	92
29) Carbon tetrachloride	4.21	117	84324	49.903	ppb	96
31] Benzene	4.39	78	213267	49.692	ppb	98
32] Trichloroethene	4.93	95	66242	48.829	ppb	95
33) 1,2-Dichloropropane	5.13	63	62615	46.613	ppb	100
34) Bromodichloromethane	5.37	83	77513	48.415	ppb	96
36) Dibromomethane	5.22	93	37560	48.548	ppb	86

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

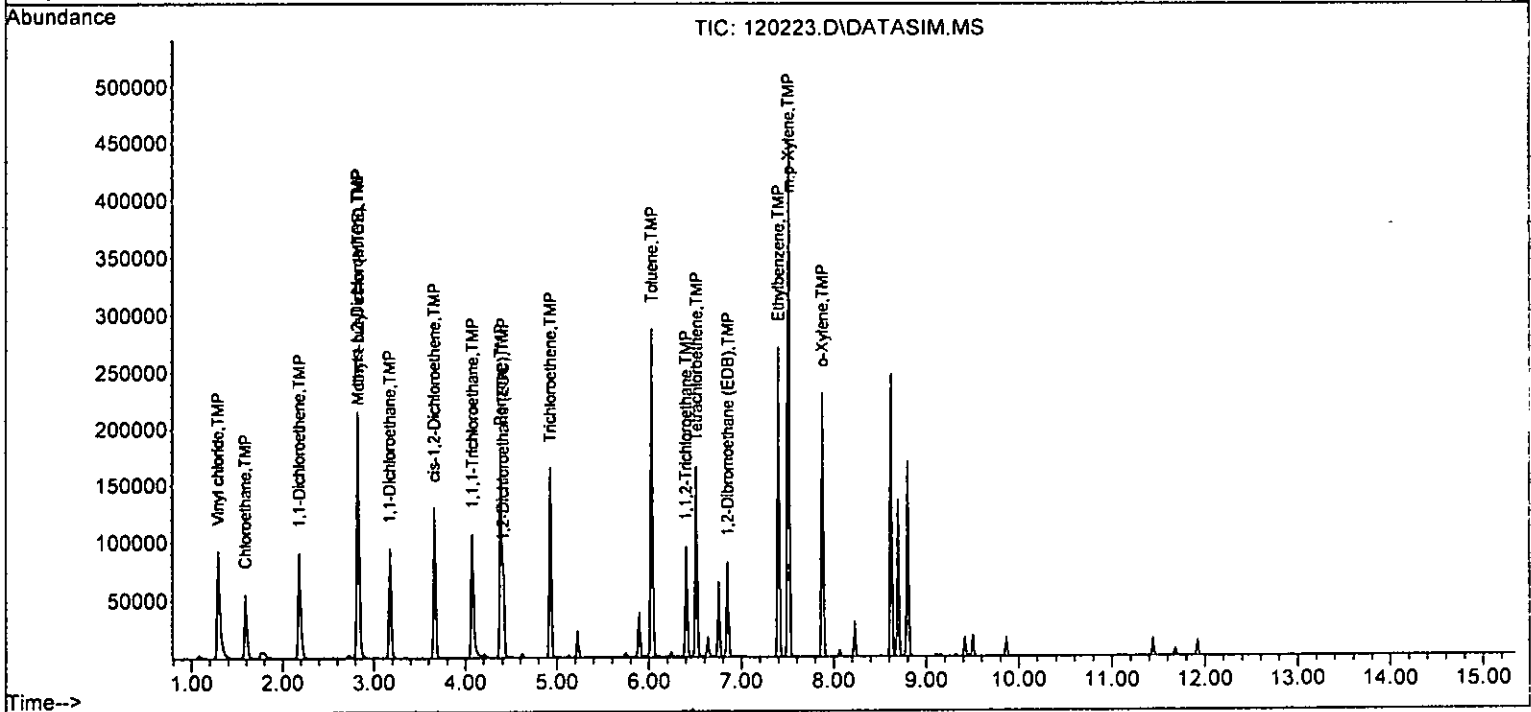
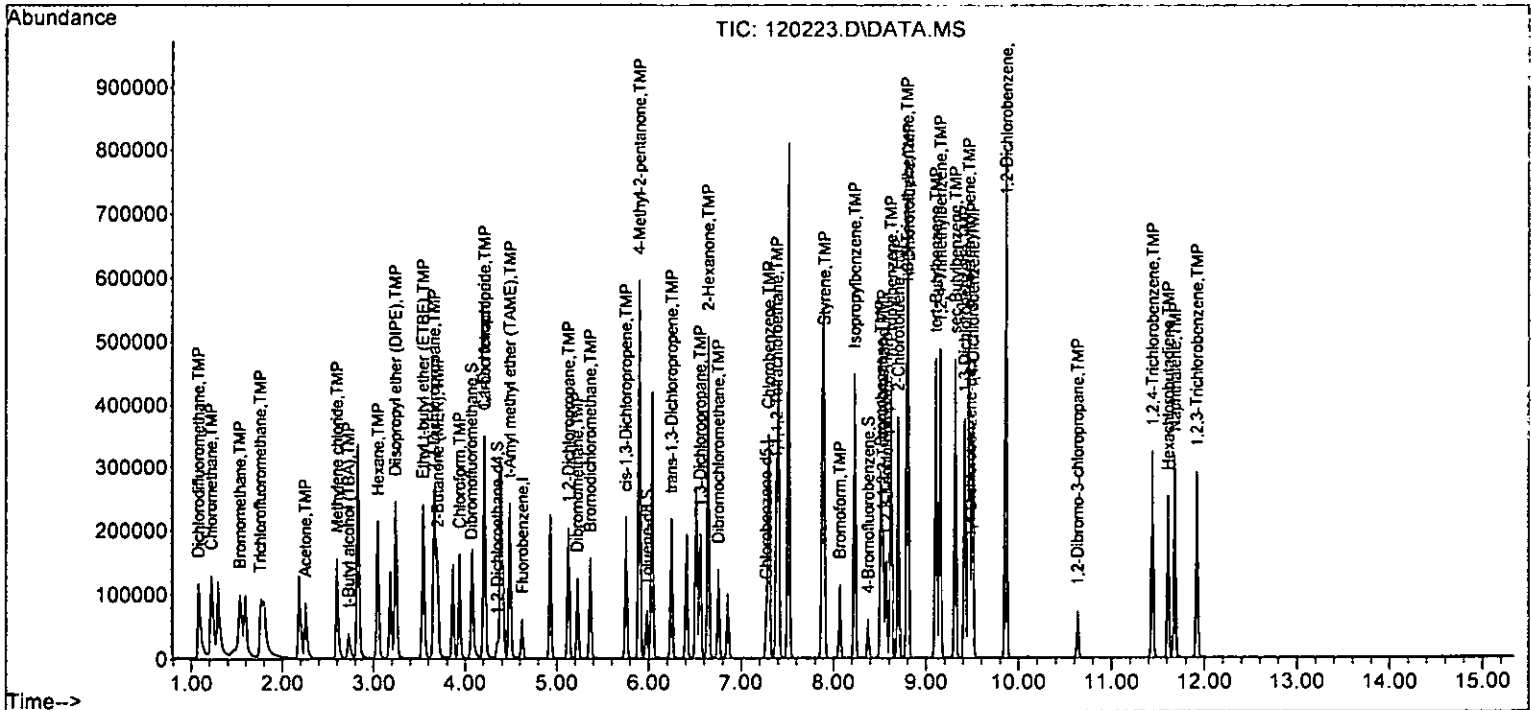
Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.90	85	56385	244.069	ppb	94
38) cis-1,3-Dichloropropene	5.75	75	92673	49.025	ppb	95
40] Toluene	6.03	92	147836	49.751	ppb	98
41) trans-1,3-Dichloropropene	6.25	75	88068	50.284	ppb	91
42] 1,1,2-Trichloroethane	6.40	83	47013	49.606	ppb	97
43) 2-Hexanone	6.64	43	262965	244.630	ppb	98
44) 1,3-Dichloropropane	6.55	76	81797	48.945	ppb	98
45] Tetrachloroethene	6.51	164	56240	49.735	ppb	99
46) Dibromochloromethane	6.75	129	63876	50.563	ppb	94
47] 1,2-Dibromoethane (EDB)	6.85	107	56187	50.558	ppb	99
48) Chlorobenzene	7.29	112	160305	48.540	ppb	99
49] Ethylbenzene	7.40	91	281033	51.005	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.38	131	60668	49.093	ppb #	78
51] m,p-Xylene	7.51	106	206698	97.907	ppb	99
52] o-Xylene	7.88	106	101758	49.094	ppb #	65
53) Styrene	7.90	104	168583	48.659	ppb	94
54) Isopropylbenzene	8.23	105	265731	47.951	ppb	97
55) Bromoform	8.07	173	44930	48.399	ppb	95
58) n-Propylbenzene	8.62	91	307417	49.444	ppb	91
59) Bromobenzene	8.51	156	71207	49.118	ppb	83
60) 1,3,5-Trimethylbenzene	8.79	105	218746	48.005	ppb	99
61) 1,1,2,2-Tetrachloroethane	8.53	83	71708	53.244	ppb	80
62) 1,2,3-Trichloropropane	8.57	75	54378	49.462	ppb	90
63) 2-Chlorotoluene	8.70	91	178478	47.317	ppb	99
64) 4-Chlorotoluene	8.81	91	206104	47.663	ppb	96
65) tert-Butylbenzene	9.10	119	198092	49.178	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	226454	47.900	ppb	98
67) sec-Butylbenzene	9.31	105	287819	49.606	ppb	97
68) p-Isopropyltoluene	9.46	119	249537	50.215	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	130878	48.520	ppb	89
70) 1,4-Dichlorobenzene	9.50	146	131694	47.890	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	125983	50.425	ppb	91
72) 1,2-Dibromo-3-chloropr...	10.63	75	14207	48.924	ppb	97
73) 1,2,4-Trichlorobenzene	11.44	180	90030	50.111	ppb	98
74) Hexachlorobutadiene	11.61	225	49341	52.119	ppb	96
75) Naphthalene	11.68	128	215957	48.976	ppb	100
76) 1,2,3-Trichlorobenzene	11.92	180	82598	50.801	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120223.D  
 Acq On : 03 Dec 2022 01:12 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-4Q  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:17:57 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

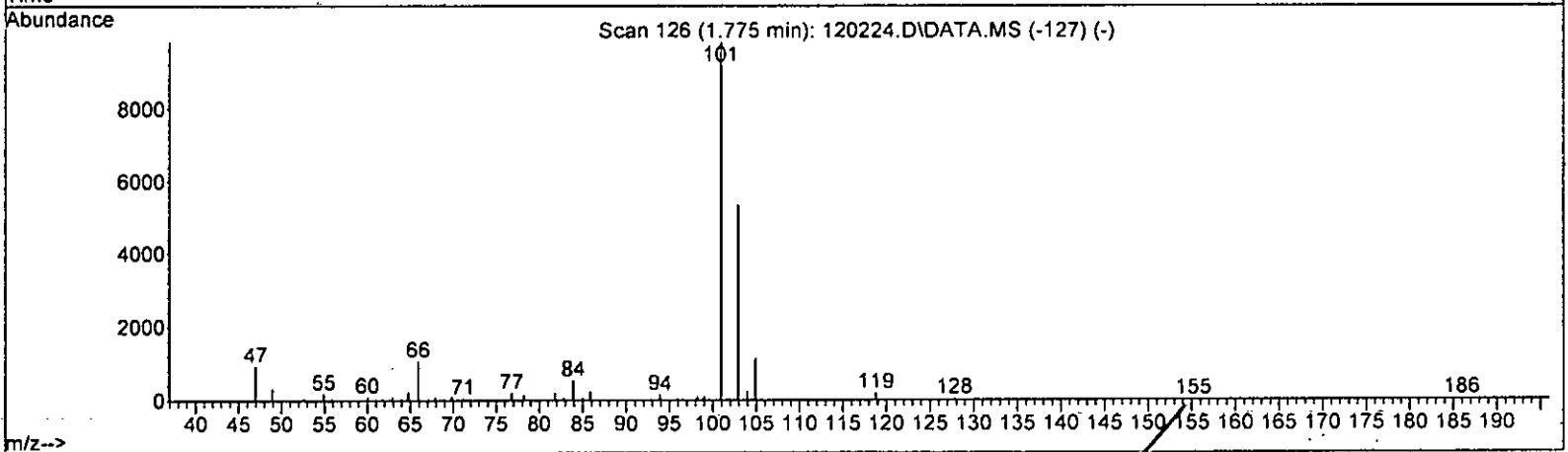
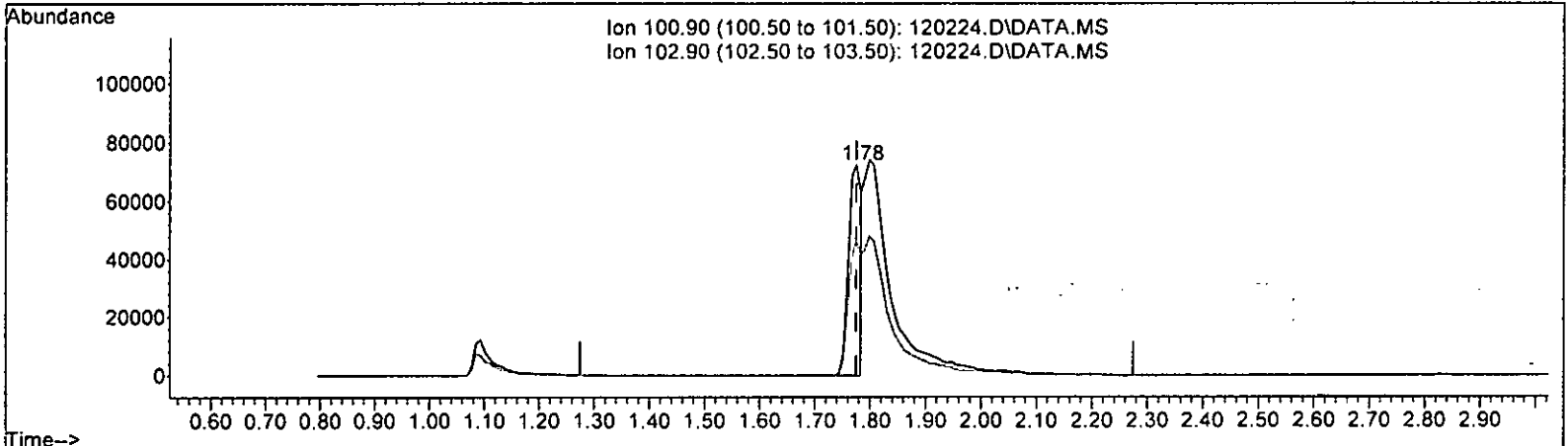




Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120224.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.775min (+ 0.000) 31.106 ppb

response 114704

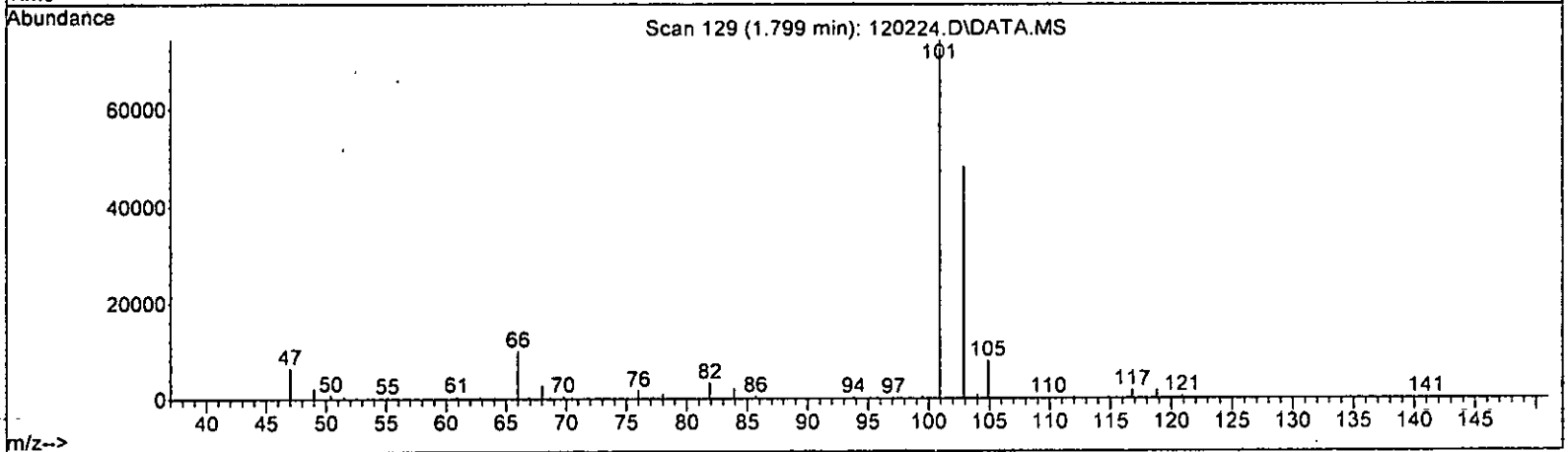
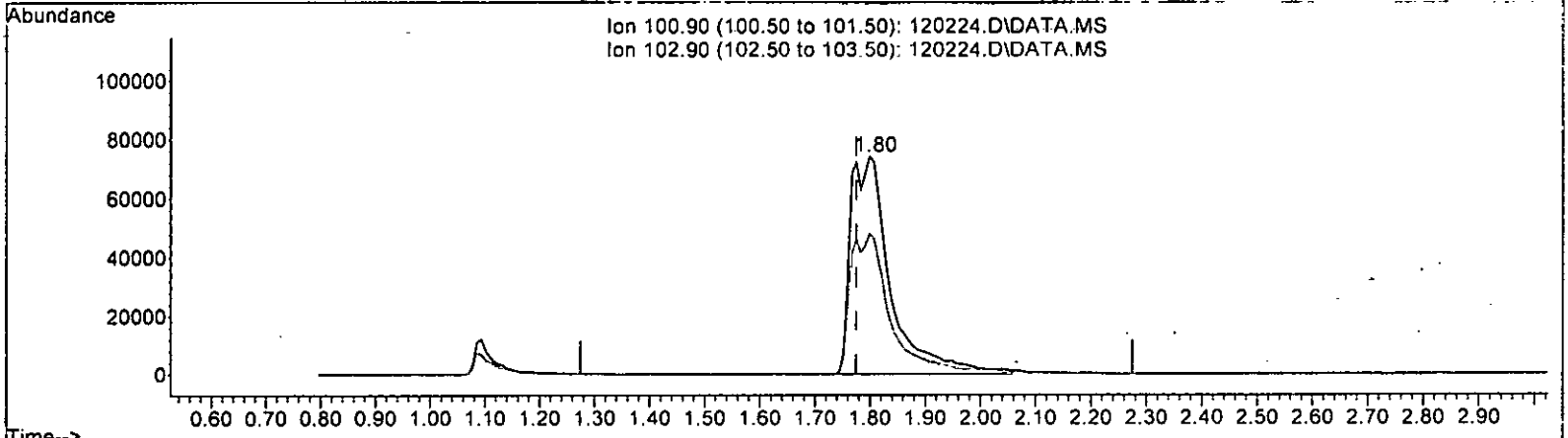
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.58
0.00	0.00	0.00
0.00	0.00	0.00

*M 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120224.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.799min (+ 0.024) 100.346 ppb m

response 370024

Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.94
0.00	0.00	0.00
0.00	0.00	0.00

*m 12.5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.368	-3.7	100	0.00
4 TMP Dichlorodifluoromethane	100.000	104.751	-4.8	100	0.00
5 TMP Chloromethane	100.000	102.638	-2.6	100	0.00
6 TMP Vinyl chloride	100.000	103.206	-3.2	100	0.00
7 TMP Bromomethane	100.000	106.405	-6.4	100	0.00
8 TMP Chloroethane	100.000	109.608	-9.6	100	0.00
9 TMP Trichlorofluoromethane	100.000	100.346	-0.3	95	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	500.000	501.847	-0.4	100	0.00
12 TMP 1,1-Dichloroethene	100.000	103.069	-3.1	100	0.00
13 TMP Hexane	100.000	102.886	-2.9	100	0.00
14 TMP Methylene chloride	100.000	101.190	-1.2	100	0.00
15 TMP t-Butyl alcohol (TBA)	500.000	483.241	3.4	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	100.000	102.758	-2.8	100	0.00
17 TMP trans-1,2-Dichloroethene	100.000	102.530	-2.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	100.000	95.426	4.6	100	0.00
19 TMP 1,1-Dichloroethane	100.000	103.089	-3.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	100.000	103.243	-3.2	100	0.00
21 TMP 2,2-Dichloropropane	100.000	99.782	0.2	100	0.00
22 TMP cis-1,2-Dichloroethene	100.000	101.961	-2.0	100	0.00
23 TMP Chloroform	100.000	98.367	1.6	100	0.00
24 TMP 2-Butanone (MEK)	500.000	515.470	-3.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	100.000	96.892	3.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	100.000	102.330	-2.3	100	0.00
27 TMP 1,1,1-Trichloroethane	100.000	102.115	-2.1	100	0.00
28 TMP 1,1-Dichloropropene	100.000	99.832	0.2	100	0.00
29 TMP Carbon tetrachloride	100.000	101.146	-1.1	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.482	5.2	100	0.00
31 TMP Benzene	100.000	101.544	-1.5	100	0.00
32 TMP Trichloroethene	100.000	103.300	-3.3	100	0.00
33 TMP 1,2-Dichloropropane	100.000	94.860	5.1	100	0.00
34 TMP Bromodichloromethane	100.000	99.757	0.2	100	0.00
35 S Toluene-d8	10.000	10.383	-3.8	100	0.00
36 TMP Dibromomethane	100.000	98.148	1.9	100	0.00
37 TMP 4-Methyl-2-pentanone	500.000	500.578	-0.1	100	0.00
38 TMP cis-1,3-Dichloropropene	100.000	100.781	-0.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	100.000	100.906	-0.9	100	0.00
41 TMP trans-1,3-Dichloropropene	100.000	99.427	0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	100.000	101.808	-1.8	100	0.00
43 TMP 2-Hexanone	500.000	481.832	3.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	100.000	99.822	0.2	100	0.00
45 TMP Tetrachloroethene	100.000	101.524	-1.5	100	0.00
46 TMP Dibromochloromethane	100.000	104.869	-4.9	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	100.000	101.797	-1.8	100	0.00
48 TMP Chlorobenzene	100.000	98.243	1.8	100	0.00
49 TMP Ethylbenzene	100.000	102.729	-2.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	100.000	99.834	0.2	100	0.00
51 TMP m,p-Xylene	200.000	197.727	1.1	100	0.00
52 TMP o-Xylene	100.000	99.565	0.4	100	0.00
53 TMP Styrene	100.000	97.518	2.5	100	0.00
54 TMP Isopropylbenzene	100.000	97.020	3.0	100	0.00
55 TMP Bromoform	100.000	100.841	-0.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.245	-2.4	100	0.00
58 TMP n-Propylbenzene	100.000	97.423	2.6	100	0.00
59 TMP Bromobenzene	100.000	97.640	2.4	100	0.00
60 TMP 1,3,5-Trimethylbenzene	100.000	96.173	3.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	100.000	98.821	1.2	100	0.00
62 TMP 1,2,3-Trichloropropane	100.000	99.167	0.8	100	0.00
63 TMP 2-Chlorotoluene	100.000	92.739	7.3	100	0.00
64 TMP 4-Chlorotoluene	100.000	95.976	4.0	100	0.00
65 TMP tert-Butylbenzene	100.000	98.528	1.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	100.000	96.194	3.8	100	0.00
67 TMP sec-Butylbenzene	100.000	98.955	1.0	100	0.00
68 TMP p-Isopropyltoluene	100.000	101.863	-1.9	100	0.00
69 TMP 1,3-Dichlorobenzene	100.000	96.196	3.8	100	0.00
70 TMP 1,4-Dichlorobenzene	100.000	95.835	4.2	100	0.00
71 TMP 1,2-Dichlorobenzene	100.000	100.357	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	100.000	102.067	-2.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	100.000	103.665	-3.7	100	0.00
74 TMP Hexachlorobutadiene	100.000	103.045	-3.0	100	0.00
75 TMP Naphthalene	100.000	101.613	-1.6	100	0.00
76 TMP 1,2,3-Trichlorobenzene	100.000	103.391	-3.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.273	-3.4	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.745	-4.6	100	0.00
5 TMP Chloromethane	0.951	0.871	8.4	100	0.00
6 TMP Vinyl chloride	0.862	0.770	10.7	100	0.00
7 TMP Bromomethane	0.441	0.409	7.3	100	0.00
8 TMP Chloroethane	0.341	0.362	-6.2	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.902	-0.3	95	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.031	0.0	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.255	5.9	100	0.00
13 TMP Hexane	0.469	0.429	8.5	100	0.00
14 TMP Methylene chloride	0.269	0.262	2.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.759	6.5	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.273	13.1	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.909	4.6	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.512	6.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.317	-3.3	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.302	13.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.297	9.7	100	0.00
23 TMP Chloroform	0.477	0.469	1.7	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.167	3.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.716	3.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.402	16.1	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.473	4.3	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.368	0.0	100	0.00
29 TMP Carbon tetrachloride	0.396	0.401	-1.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.057	5.0	100	0.00
31 TMP Benzene	1.103	1.012	8.3	100	0.00
32 TMP Trichloroethene	0.368	0.328	10.9	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.299	5.1	100	0.00
34 TMP Bromodichloromethane	0.375	0.374	0.3	100	0.00
35 S Toluene-d8	0.975	1.013	-3.9	100	0.00
36 TMP Dibromomethane	0.181	0.178	1.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.054	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.447	-0.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.869	11.9	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.505	0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.277	2.8	100	0.00
43 TMP 2-Hexanone	0.312	0.300	3.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-45  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.484	0.0	100	0.00
45 TMP Tetrachloroethene	0.420	0.330	21.4#	100	0.00
46 TMP Dibromochloromethane	0.366	0.384	-4.9	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.328	13.5	100	0.00
48 TMP Chlorobenzene	0.957	0.940	1.8	100	0.00
49 TMP Ethylbenzene	1.885	1.640	13.0	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.358	0.0	100	0.00
51 TMP m,p-Xylene	0.705	0.605	14.2	100	0.00
52 TMP o-Xylene	0.683	0.598	12.4	100	0.00
53 TMP Styrene	1.004	0.979	2.5	100	0.00
54 TMP Isopropylbenzene	1.606	1.558	3.0	100	0.00
55 TMP Bromoform	0.269	0.271	-0.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.885	-2.4	100	0.00
58 TMP n-Propylbenzene	3.386	3.299	2.6	100	0.00
59 TMP Bromobenzene	0.790	0.771	2.4	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.387	3.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.725	1.1	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.594	0.8	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.905	7.3	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.260	4.0	100	0.00
65 TMP tert-Butylbenzene	2.194	2.161	1.5	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.477	3.8	100	0.00
67 TMP sec-Butylbenzene	3.160	3.127	1.0	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.757	-1.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.413	3.8	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.435	4.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.366	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.161	-1.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	1.014	-3.7	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.531	-2.9	100	0.00
75 TMP Naphthalene	2.401	2.440	-1.6	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.915	-3.4	100	0.00

(#) = Out of Range

5PCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	41010	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	33336	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	17982	10.000	ppb	# 0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11206	10.368	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	103.70%	
30) 1,2-Dichloroethane-d4	4.36	102	2318	9.482	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	94.80%	
35) Toluene-d8	5.98	98	41534	10.383	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	103.80%	
57) 4-Bromofluorobenzene	8.38	95	15918	10.245	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	102.50%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	305673	104.751	ppb		96
5) Chloromethane	1.23	50	357020	102.638	ppb		99
6] Vinyl chloride	1.30	62	315732	103.206	ppb		93
7) Bromomethane	1.55	94	167764	106.405	ppb		65
8] Chloroethane	1.61	64	148497	109.608	ppb		83
9) Trichlorofluoromethane	1.80	101	370024m	100.346	ppb		
10) 2-Propanol	2.40	45	490	No Calib			
11) Acetone	2.26	58	64216	501.847	ppb	#	86
12] 1,1-Dichloroethene	2.19	96	104387	103.069	ppb		83
13) Hexane	3.06	57	176108	102.886	ppb		95
14) Methylene chloride	2.61	84	107409	101.190	ppb		83
15) t-Butyl alcohol (TBA)	2.73	59	91692	483.241	ppb		95
16] Methyl t-butyl ether (...)	2.84	73	311294	102.758	ppb		96
17] trans-1,2-Dichloroethene	2.83	96	112046	102.530	ppb		91
18) Diisopropyl ether (DIPE)	3.24	45	372796	95.426	ppb		99
19] 1,1-Dichloroethane	3.18	63	210066	103.089	ppb		97
20) Ethyl t-butyl ether (E...)	3.55	87	130118	103.243	ppb		88
21) 2,2-Dichloropropane	3.67	77	123978	99.782	ppb		90
22] cis-1,2-Dichloroethene	3.67	96	121941	101.961	ppb		95
23) Chloroform	3.95	83	192230	98.367	ppb		91
24) 2-Butanone (MEK)	3.70	43	342320	515.470	ppb		98
25) t-Amyl methyl ether (T...)	4.49	73	293501	96.892	ppb		97
26] 1,2-Dichloroethane (EDC)	4.42	62	164660	102.330	ppb		96
27] 1,1,1-Trichloroethane	4.08	97	193860	102.115	ppb		97
28) 1,1-Dichloropropene	4.22	75	150749	99.832	ppb		92
29) Carbon tetrachloride	4.22	117	164281	101.146	ppb		95
31] Benzene	4.39	78	414855	101.544	ppb		93
32] Trichloroethene	4.93	95	134660	103.300	ppb		95
33) 1,2-Dichloropropane	5.13	63	122481	94.860	ppb		100
34) Bromodichloromethane	5.37	83	153516	99.757	ppb		95
36) Dibromomethane	5.23	93	72988	98.148	ppb		83

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

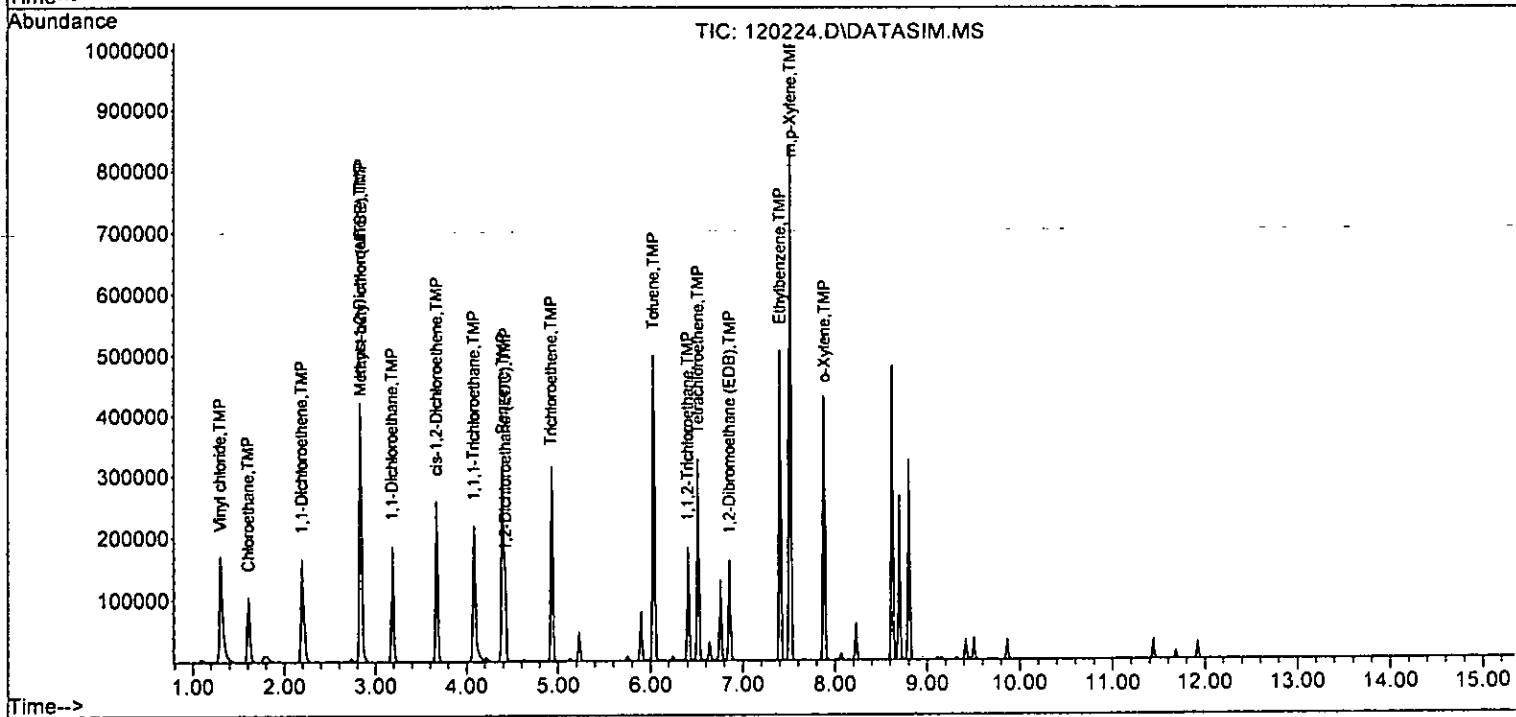
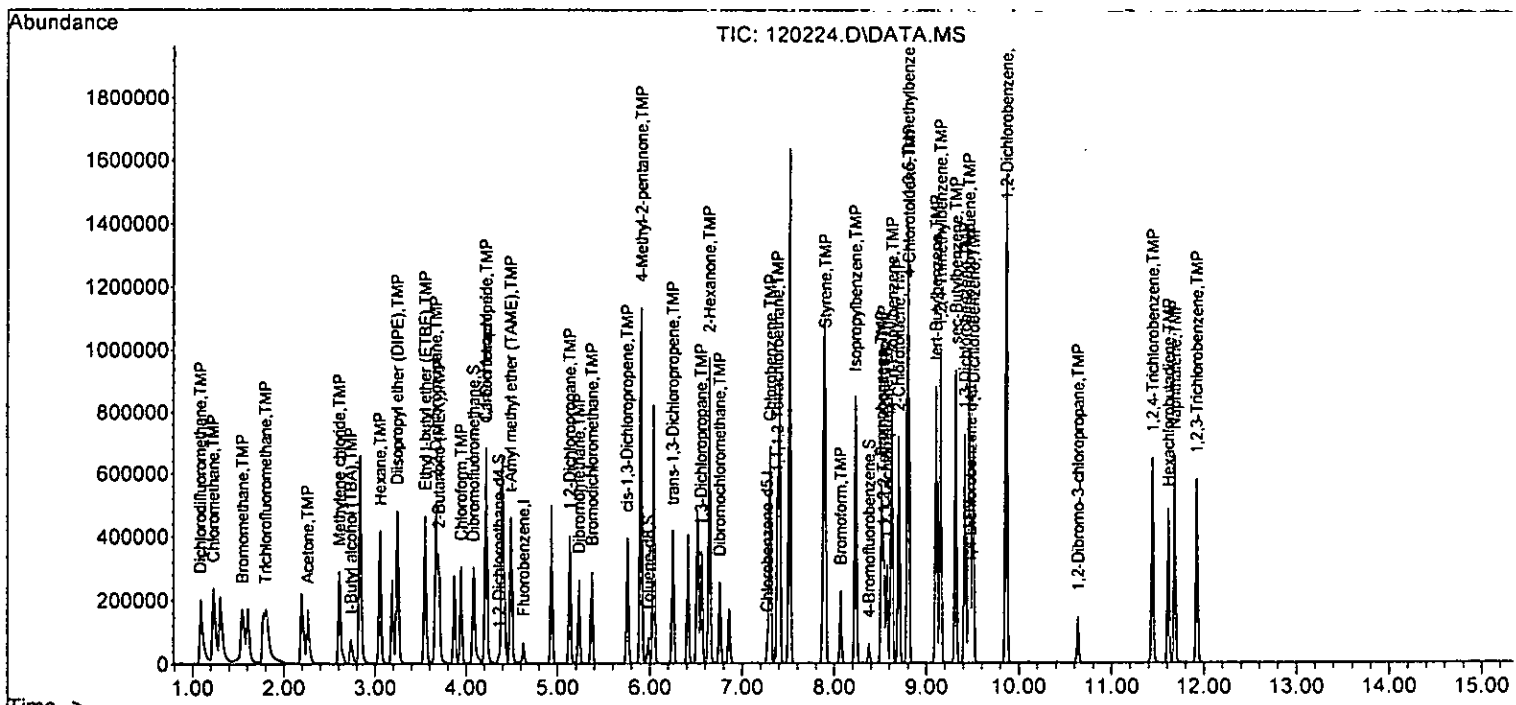
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	111158	500.578	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	183118	100.781	ppb	95
40] Toluene	6.03	92	289629	100.906	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	168254	99.427	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	92312	101.808	ppb	98
43) 2-Hexanone	6.64	43	500442	481.832	ppb	99
44) 1,3-Dichloropropane	6.55	76	161185	99.822	ppb	97
45] Tetrachloroethene	6.51	164	110112	101.524	ppb	99
46) Dibromochloromethane	6.75	129	128004	104.869	ppb	94
47] 1,2-Dibromoethane (EDB)	6.85	107	109270	101.797	ppb	99
48) Chlorobenzene	7.30	112	313484	98.243	ppb	97
49] Ethylbenzene	7.40	91	546718	102.729	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.38	131	119204	99.834	ppb	79
51] m,p-Xylene	7.52	106	403208	197.727	ppb	# 75
52] o-Xylene	7.88	106	199345	99.565	ppb	96
53) Styrene	7.90	104	326441	97.518	ppb	95
54) Isopropylbenzene	8.23	105	519485	97.020	ppb	93
55) Bromoform	8.07	173	90450	100.841	ppb	95
58) n-Propylbenzene	8.63	91	593192	97.423	ppb	95
59) Bromobenzene	8.51	156	138620	97.640	ppb	82
60) 1,3,5-Trimethylbenzene	8.80	105	429162	96.173	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	130337	98.821	ppb	81
62) 1,2,3-Trichloropropane	8.57	75	106766	99.167	ppb	90
63) 2-Chlorotoluene	8.70	91	342569	92.739	ppb	100
64) 4-Chlorotoluene	8.81	91	406432	95.976	ppb	95
65) tert-Butylbenzene	9.10	119	388662	98.528	ppb	97
66) 1,2,4-Trimethylbenzene	9.15	105	445364	96.194	ppb	99
67) sec-Butylbenzene	9.32	105	562261	98.955	ppb	97
68) p-Isopropyltoluene	9.46	119	495718	101.863	ppb	96
69) 1,3-Dichlorobenzene	9.42	146	254108	96.196	ppb	90
70) 1,4-Dichlorobenzene	9.51	146	258086	95.835	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	245546	100.357	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.64	75	29026	102.067	ppb	97
73) 1,2,4-Trichlorobenzene	11.44	180	182390	103.665	ppb	96
74) Hexachlorobutadiene	11.61	225	95534	103.045	ppb	97
75) Naphthalene	11.68	128	438788	101.613	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	164625	103.391	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120224.D  
 Acq On : 03 Dec 2022 01:35 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-4S  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:01 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



## Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\V8120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	9.837	1.6	100	0.00
4 TMP	Dichlorodifluoromethane	150.000	150.439	-0.3	100	0.00
5 TMP	Chloromethane	150.000	148.662	0.9	100	0.00
6 TMP	Vinyl chloride	150.000	148.470	1.0	100	0.00
7 TMP	Bromomethane	150.000	149.148	0.6	100	0.00
8 TMP	Chloroethane	150.000	145.276	3.1	100	0.00
9 TMP	Trichlorofluoromethane	150.000	150.983	-0.7	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	750.000	673.219	10.2	100	0.00
12 TMP	1,1-Dichloroethene	150.000	148.339	1.1	100	0.00
13 TMP	Hexane	150.000	144.146	3.9	100	0.00
14 TMP	Methylene chloride	150.000	147.590	1.6	100	0.00
15 TMP	t-Butyl alcohol (TBA)	750.000	708.696	5.5	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	150.000	148.502	1.0	100	0.00
17 TMP	trans-1,2-Dichloroethene	150.000	148.170	1.2	100	0.00
18 TMP	Diisopropyl ether (DIPE)	150.000	136.549	9.0	100	0.00
19 TMP	1,1-Dichloroethane	150.000	148.652	0.9	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	150.000	145.642	2.9	100	0.00
21 TMP	2,2-Dichloropropane	150.000	149.632	0.2	100	0.00
22 TMP	cis-1,2-Dichloroethene	150.000	149.081	0.6	100	0.00
23 TMP	Chloroform	150.000	144.454	3.7	100	0.00
24 TMP	2-Butanone (MEK)	750.000	742.119	1.1	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	150.000	141.074	6.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	150.000	149.011	0.7	100	0.00
27 TMP	1,1,1-Trichloroethane	150.000	147.696	1.5	100	0.00
28 TMP	1,1-Dichloropropene	150.000	144.113	3.9	100	0.00
29 TMP	Carbon tetrachloride	150.000	149.994	0.0	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.988	0.1	100	0.00
31 TMP	Benzene	150.000	149.336	0.4	100	0.00
32 TMP	Trichloroethene	150.000	152.121	-1.4	100	0.00
33 TMP	1,2-Dichloropropane	150.000	138.090	7.9	100	0.00
34 TMP	Bromodichloromethane	150.000	143.954	4.0	100	0.00
35 S	Toluene-d8	10.000	10.370	-3.7	100	0.00
36 TMP	Dibromomethane	150.000	142.870	4.8	100	0.00
37 TMP	4-Methyl-2-pentanone	750.000	703.479	6.2	100	0.00
38 TMP	cis-1,3-Dichloropropene	150.000	148.105	1.3	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	150.000	148.586	0.9	100	0.00
41 TMP	trans-1,3-Dichloropropene	150.000	150.280	-0.2	100	0.00
42 TMP	1,1,2-Trichloroethane	150.000	151.262	-0.8	100	0.00
43 TMP	2-Hexanone	750.000	705.565	5.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	150.000	147.727	1.5	100	0.00
45 TMP Tetrachloroethene	150.000	150.472	-0.3	100	0.00
46 TMP Dibromochloromethane	150.000	154.579	-3.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	150.000	150.608	-0.4	100	0.00
48 TMP Chlorobenzene	150.000	146.023	2.7	100	0.00
49 TMP Ethylbenzene	150.000	150.798	-0.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	150.000	148.867	0.8	100	0.00
51 TMP m,p-Xylene	300.000	290.112	3.3	100	0.00
52 TMP o-Xylene	150.000	146.487	2.3	100	0.00
53 TMP Styrene	150.000	144.869	3.4	100	0.00
54 TMP Isopropylbenzene	150.000	143.286	4.5	100	0.00
55 TMP Bromoform	150.000	152.192	-1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.160	-1.6	100	0.00
58 TMP n-Propylbenzene	150.000	141.464	5.7	100	0.00
59 TMP Bromobenzene	150.000	145.707	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	150.000	141.197	5.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	150.000	141.457	5.7	100	0.00
62 TMP 1,2,3-Trichloropropane	150.000	145.229	3.2	100	0.00
63 TMP 2-Chlorotoluene	150.000	136.698	8.9	100	0.00
64 TMP 4-Chlorotoluene	150.000	140.218	6.5	100	0.00
65 TMP tert-Butylbenzene	150.000	145.349	3.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	150.000	142.200	5.2	100	0.00
67 TMP sec-Butylbenzene	150.000	145.425	3.0	100	0.00
68 TMP p-Isopropyltoluene	150.000	149.151	0.6	100	0.00
69 TMP 1,3-Dichlorobenzene	150.000	143.143	4.6	100	0.00
70 TMP 1,4-Dichlorobenzene	150.000	140.396	6.4	100	0.00
71 TMP 1,2-Dichlorobenzene	150.000	148.035	1.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	150.000	155.079	-3.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	150.000	154.890	-3.3	100	0.00
74 TMP Hexachlorobutadiene	150.000	150.324	-0.2	100	0.00
75 TMP Naphthalene	150.000	151.912	-1.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	150.000	156.336	-4.2	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq Dn : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.259	1.9	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	0.840	11.7	100	0.00
6 TMP Vinyl chloride	0.862	0.738	14.4	100	0.00
7 TMP Bromomethane	0.441	0.380	13.8	100	0.00
8 TMP Chloroethane	0.341	0.320	6.2	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.905	-0.7	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.028	9.7	100	0.00
12 TMP 1,1-Dichloroethene	0.271	0.244	10.0	100	0.00
13 TMP Hexane	0.469	0.401	14.5	100	0.00
14 TMP Methylene chloride	0.269	0.252	6.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.044	4.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.731	10.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.263	16.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.867	9.0	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.492	10.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.298	2.9	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.302	13.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.290	11.9	100	0.00
23 TMP Chloroform	0.477	0.459	3.8	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.160	7.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.695	6.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.390	18.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.456	7.7	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.354	3.8	100	0.00
29 TMP Carbon tetrachloride	0.396	0.396	0.0	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	1.103	0.983	10.9	100	0.00
32 TMP Trichloroethene	0.368	0.322	12.5	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.290	7.9	100	0.00
34 TMP Bromodichloromethane	0.375	0.360	4.0	100	0.00
35 S Toluene-d8	0.975	1.012	-3.8	100	0.00
36 TMP Dibromomethane	0.181	0.173	4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.051	5.6	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.437	1.4	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.853	13.5	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.509	-0.2	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.272	4.6	100	0.00
43 TMP 2-Hexanone	0.312	0.293	6.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.477	1.4	100	0.00
45 TMP Tetrachloroethene	0.420	0.324	22.9#	100	0.00
46 TMP Dibromochloromethane	0.366	0.377	-3.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.323	14.8	100	0.00
48 TMP Chlorobenzene	0.957	0.932	2.6	100	0.00
49 TMP Ethylbenzene	1.885	1.605	14.9	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.355	0.8	100	0.00
51 TMP m,p-Xylene	0.705	0.591	16.2	100	0.00
52 TMP o-Xylene	0.683	0.586	14.2	100	0.00
53 TMP Styrene	1.004	0.970	3.4	100	0.00
54 TMP Isopropylbenzene	1.606	1.534	4.5	100	0.00
55 TMP Bromoform	0.269	0.273	-1.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.878	-1.6	100	0.00
58 TMP n-Propylbenzene	3.386	3.193	5.7	100	0.00
59 TMP Bromobenzene	0.790	0.767	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.336	5.9	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.692	5.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.580	3.2	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.872	8.9	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.201	6.5	100	0.00
65 TMP tert-Butylbenzene	2.194	2.126	3.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.441	5.2	100	0.00
67 TMP sec-Butylbenzene	3.160	3.063	3.1	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.691	0.6	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.402	4.6	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.402	6.4	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.343	1.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.164	-3.8	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	1.010	-3.3	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.517	-0.2	100	0.00
75 TMP Naphthalene	2.401	2.432	-1.3	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.923	-4.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	42305	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	33999	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	18471	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	10967	9.837	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	98.40%		
30) 1,2-Dichloroethane-d4	4.36	102	2519	9.988	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	99.90%		
35) Toluene-d8	5.98	98	42794	10.370	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	103.70%		
57) 4-Bromofluorobenzene	8.38	95	16215	10.160	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	101.60%		
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	1.09	85	452856	150.439	ppb		96
5) Chloromethane	1.22	50	533042	148.662	ppb		99
6) Vinyl chloride	1.29	62	468510	148.470	ppb		91
7) Bromomethane	1.53	94	240924	149.148	ppb	#	60
8) Chloroethane	1.60	64	202998	145.276	ppb		86
9) Trichlorofluoromethane	1.77	101	574327	150.983	ppb		66
10) 2-Propanol	2.41	45	441	No Calib			
11) Acetone	2.26	58	88865	673.219	ppb		96
12) 1,1-Dichloroethene	2.19	96	154971	148.339	ppb		96
13) Hexane	3.05	57	254294	144.146	ppb		94
14) Methylene chloride	2.61	84	159649	147.590	ppb		81
15) t-Butyl alcohol (TBA)	2.73	59	138717	708.696	ppb		98
16) Methyl t-butyl ether (...)	2.83	73	464051	148.502	ppb		99
17) trans-1,2-Dichloroethene	2.83	96	167019	148.170	ppb		99
18) Diisopropyl ether (DIPE)	3.24	45	550293	136.549	ppb		100
19) 1,1-Dichloroethane	3.18	63	312458	148.652	ppb		100
20) Ethyl t-butyl ether (E...)	3.54	87	189349	145.642	ppb		90
21) 2,2-Dichloropropane	3.67	77	191670	149.632	ppb		89
22) cis-1,2-Dichloroethene	3.67	96	183911	149.081	ppb		98
23) Chloroform	3.94	83	291209	144.454	ppb		91
24) 2-Butanone (MEK)	3.70	43	507911	742.119	ppb		97
25) t-Amyl methyl ether (T...)	4.49	73	440831	141.074	ppb		98
26) 1,2-Dichloroethane (EDC)	4.41	62	247316	149.011	ppb		100
27) 1,1,1-Trichloroethane	4.08	97	289235	147.696	ppb		99
28) 1,1-Dichloropropene	4.22	75	224486	144.113	ppb		91
29) Carbon tetrachloride	4.21	117	251313	149.994	ppb		96
31) Benzene	4.39	78	623791	149.336	ppb		98
32) Trichloroethene	4.93	95	204544	152.121	ppb		99
33) 1,2-Dichloropropane	5.13	63	183929	138.090	ppb		100
34) Bromodichloromethane	5.37	83	228526	143.954	ppb		97
36) Dibromomethane	5.23	93	109600	142.870	ppb		82

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

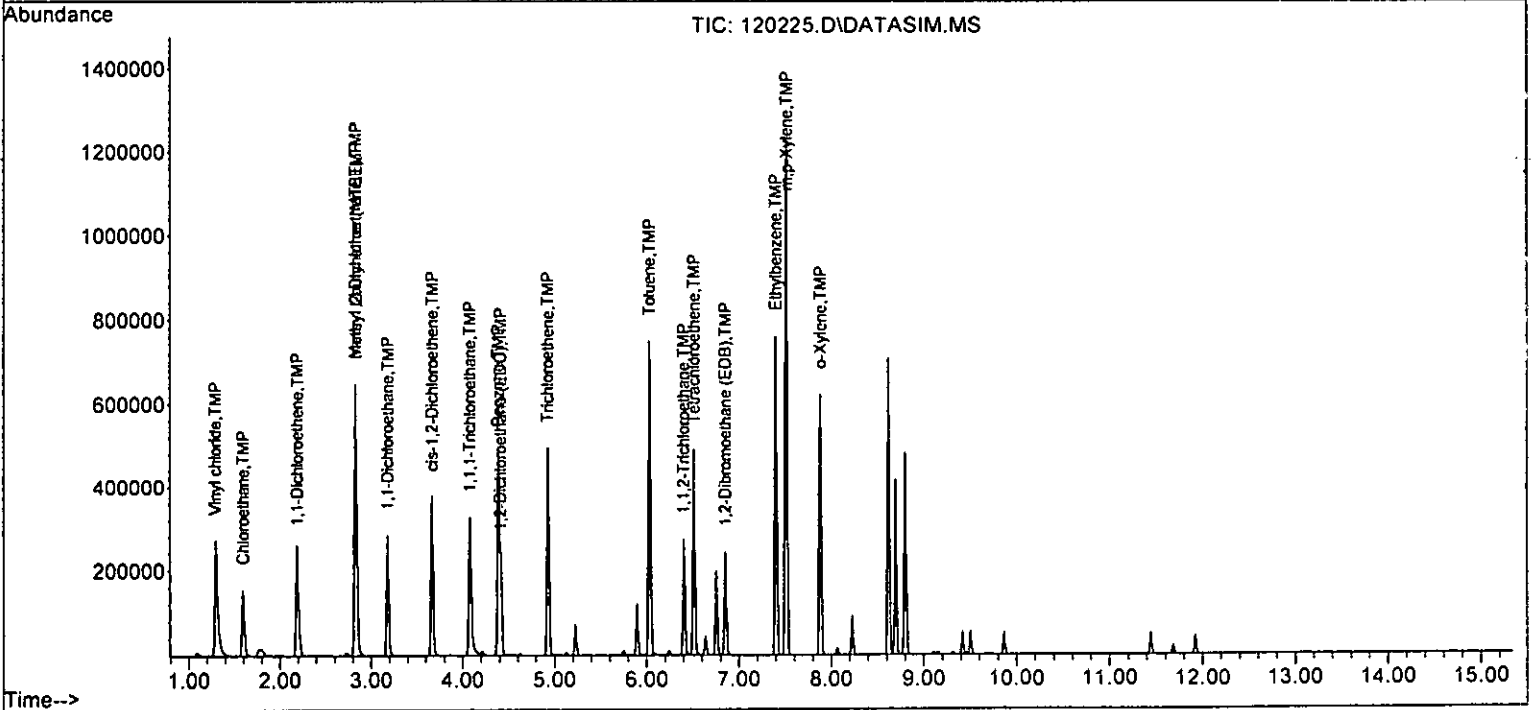
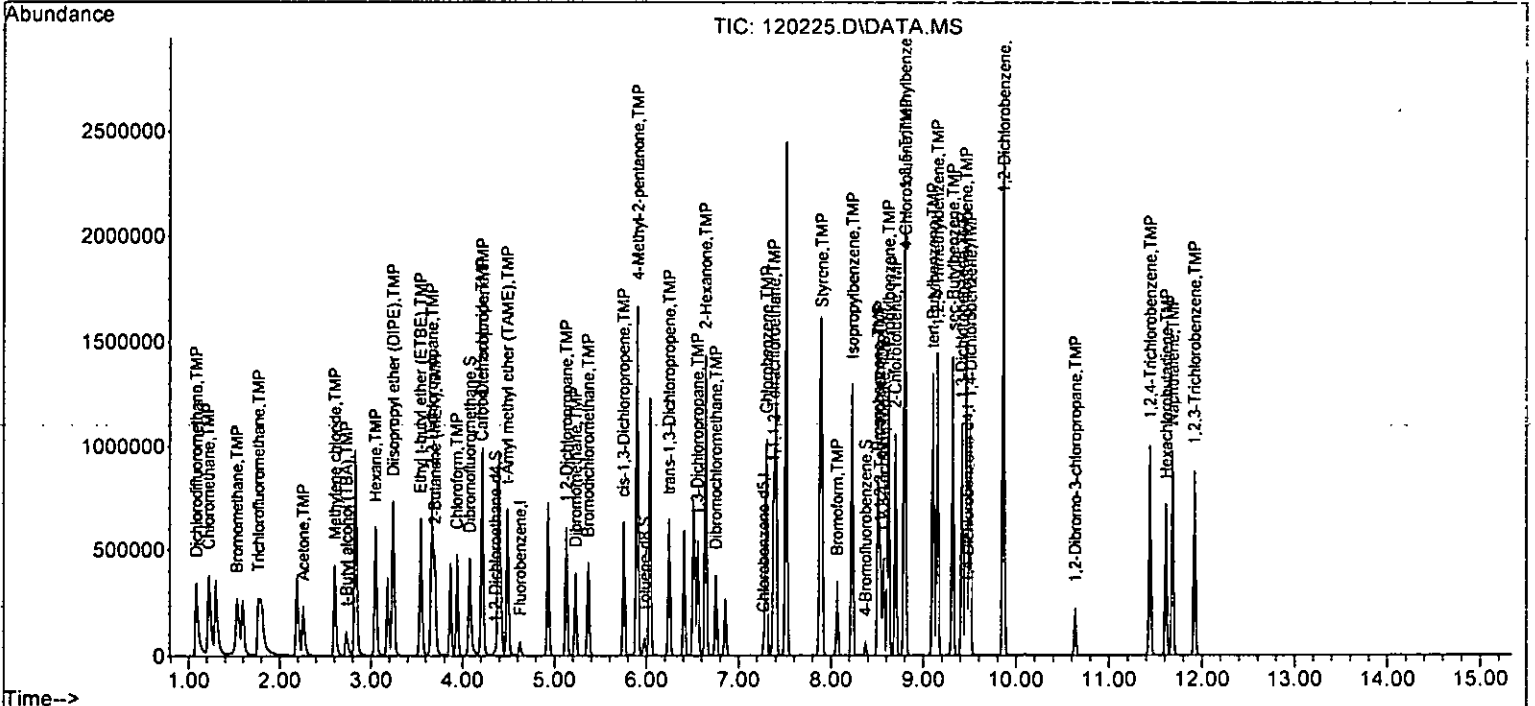
Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	161147	703.479	ppb	97
38) cis-1,3-Dichloropropene	5.75	75	277603	148.105	ppb	95
40] Toluene	6.03	92	434928	148.586	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	259366	150.280	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	138590	151.262	ppb	99
43) 2-Hexanone	6.64	43	747390	705.565	ppb	99
44) 1,3-Dichloropropane	6.55	76	243282	147.727	ppb	100
45] Tetrachloroethene	6.51	164	165348	150.472	ppb	99
46) Dibromochloromethane	6.75	129	192432	154.579	ppb	95
47] 1,2-Dibromoethane (EDB)	6.85	107	164862	150.608	ppb	99
48) Chlorobenzene	7.30	112	475210	146.023	ppb	98
49] Ethylbenzene	7.40	91	818414	150.798	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	181285	148.867	ppb	79
51] m,p-Xylene	7.52	106	603310	290.112	ppb #	79
52] o-Xylene	7.88	106	299097	146.487	ppb	91
53) Styrene	7.90	104	494593	144.869	ppb	95
54) Isopropylbenzene	8.23	105	782475	143.286	ppb	96
55) Bromoform	8.07	173	139225	152.192	ppb	97
58) n-Propylbenzene	8.63	91	884772	141.464	ppb	92
59) Bromobenzene	8.51	156	212486	145.707	ppb	86
60) 1,3,5-Trimethylbenzene	8.80	105	647213	141.197	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	191643	141.457	ppb	79
62) 1,2,3-Trichloropropane	8.57	75	160610	145.229	ppb	93
63) 2-Chlorotoluene	8.70	91	518682	136.698	ppb	99
64) 4-Chlorotoluene	8.81	91	609930	140.218	ppb	95
65) tert-Butylbenzene	9.10	119	588946	145.349	ppb	97
66) 1,2,4-Trimethylbenzene	9.15	105	676264	142.200	ppb	98
67) sec-Butylbenzene	9.32	105	848774	145.425	ppb	96
68) p-Isopropyltoluene	9.46	119	745590	149.151	ppb	96
69) 1,3-Dichlorobenzene	9.42	146	388405	143.143	ppb	92
70) 1,4-Dichlorobenzene	9.51	146	388373	140.396	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	372051	148.035	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.64	75	45301	155.079	ppb	98
73) 1,2,4-Trichlorobenzene	11.44	180	279926	154.890	ppb	98
74) Hexachlorobutadiene	11.61	225	143156	150.324	ppb	96
75) Naphthalene	11.68	128	673828	151.912	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	255696	156.336	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120225.D  
 Acq On : 03 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-4T  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:05 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

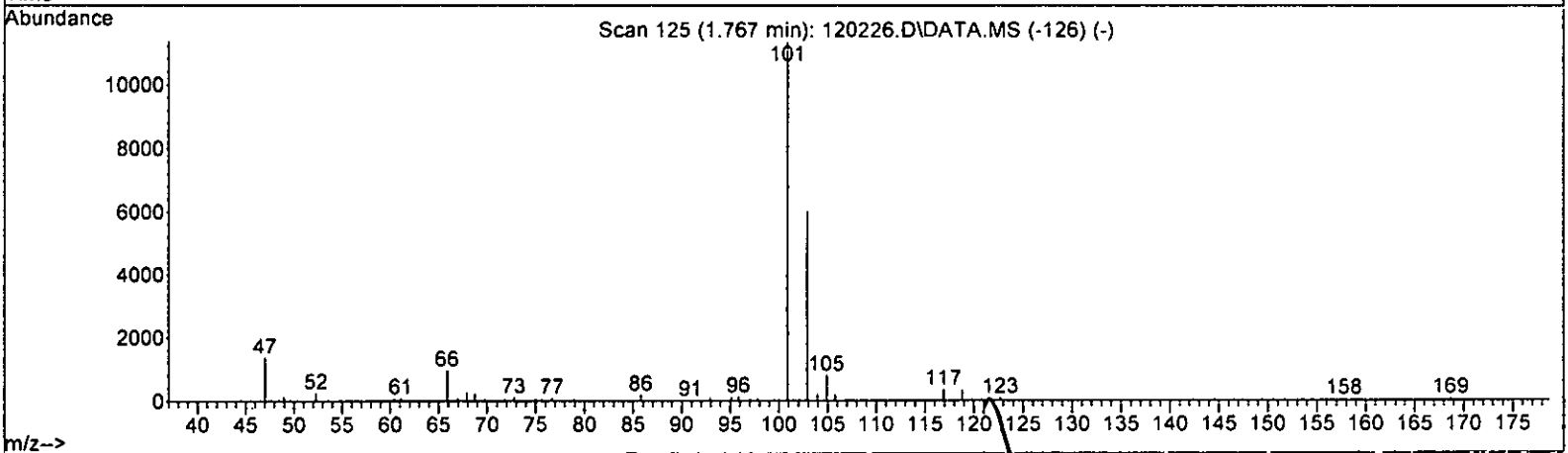
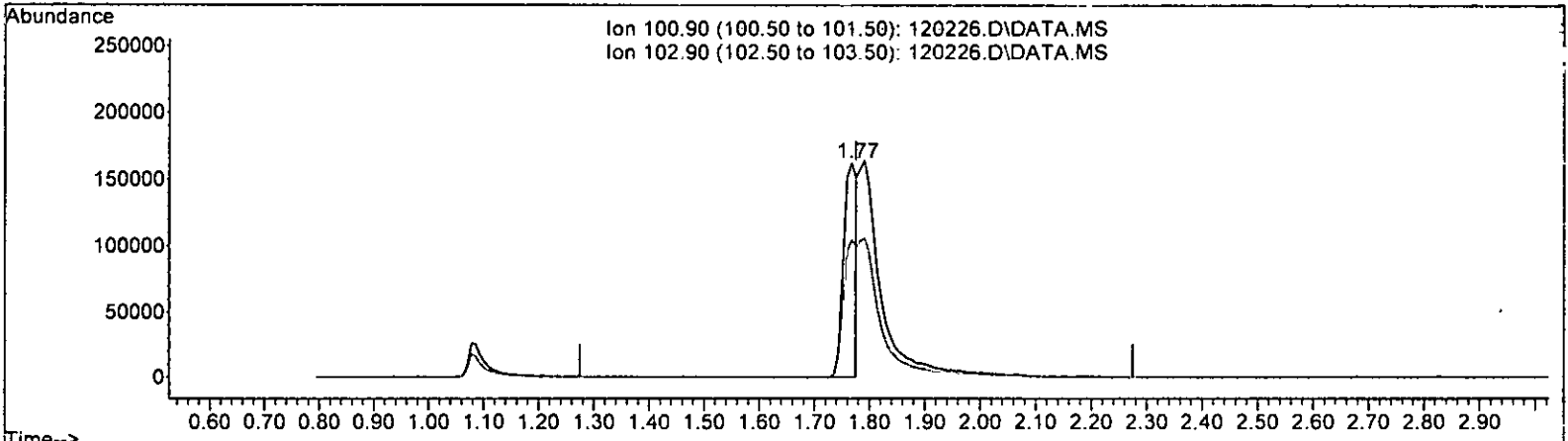




Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120226.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.767min (-0.008) 70.990 ppb

response 266394

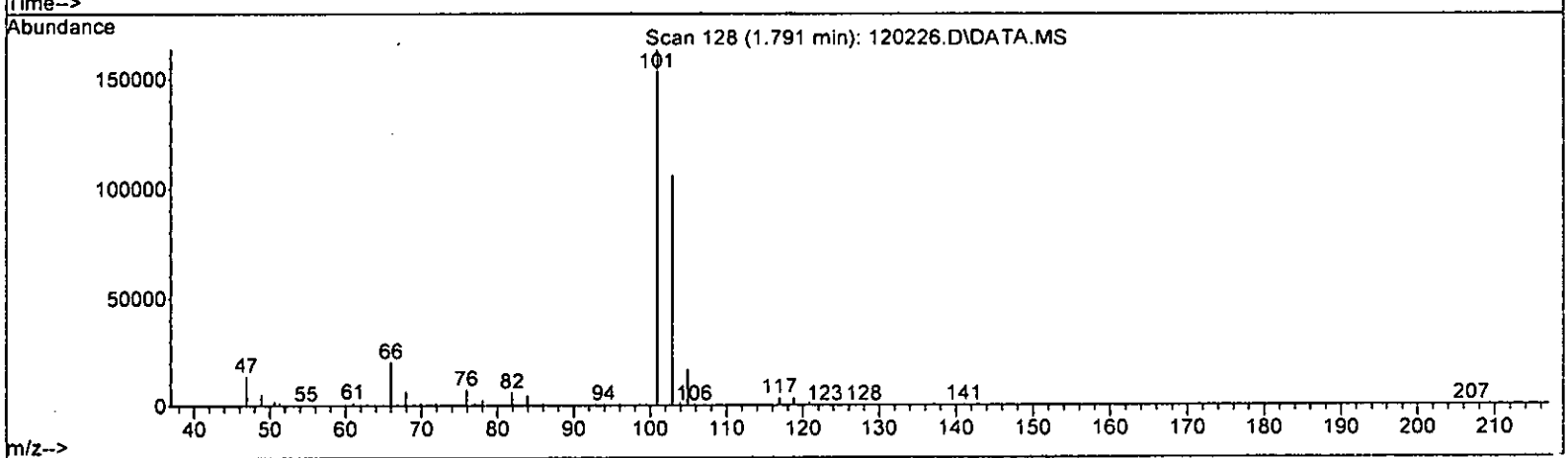
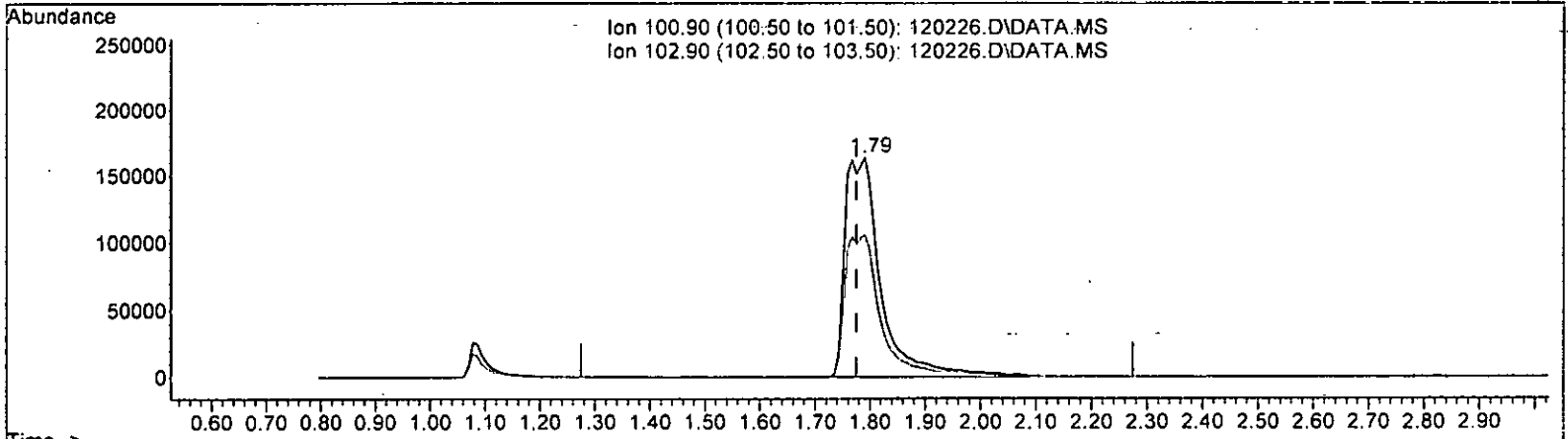
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.25
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: 12.5*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120226.D\DATA.MS

(9) Trichlorofluoromethane (TMP)

1.791min (+ 0.016) 205.020 ppb m

response 769356

Ion	Exp%	Act%
100.90	100.00	100.00
102.90	42.20	64.40
0.00	0.00	0.00
0.00	0.00	0.00

*m/z 5*

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	0.02
3 S Dibromofluoromethane	10.000	10.237	-2.4	100	0.00
4 TMP Dichlorodifluoromethane	200.000	200.647	-0.3	100	0.00
5 TMP Chloromethane	200.000	199.762	0.1	100	0.00
6 TMP Vinyl chloride	200.000	197.626	1.2	100	0.00
7 TMP Bromomethane	200.000	197.339	1.3	100	0.00
8 TMP Chloroethane	200.000	190.720	4.6	100	-0.02
9 TMP Trichlorofluoromethane	200.000	205.020	-2.5	105	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	1000.000	913.849	8.6	100	-0.02
12 TMP 1,1-Dichloroethene	200.000	197.726	1.1	100	0.00
13 TMP Hexane	200.000	203.142	-1.6	100	0.00
14 TMP Methylene chloride	200.000	201.171	-0.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	1000.000	968.711	3.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	200.000	196.588	1.7	100	0.00
17 TMP trans-1,2-Dichloroethene	200.000	197.166	1.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	200.000	180.478	9.8	100	0.00
19 TMP 1,1-Dichloroethane	200.000	196.655	1.7	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	200.000	193.796	3.1	100	0.00
21 TMP 2,2-Dichloropropane	200.000	195.403	2.3	100	0.00
22 TMP cis-1,2-Dichloroethene	200.000	198.146	0.9	100	0.00
23 TMP Chloroform	200.000	192.510	3.7	100	0.00
24 TMP 2-Butanone (MEK)	1000.000	1000.134	-0.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	200.000	190.057	5.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	200.000	197.675	1.2	100	0.00
27 TMP 1,1,1-Trichloroethane	200.000	200.881	-0.4	100	0.00
28 TMP 1,1-Dichloropropene	200.000	193.426	3.3	100	0.00
29 TMP Carbon tetrachloride	200.000	200.395	-0.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.189	-1.9	100	0.00
31 TMP Benzene	200.000	199.834	0.1	100	0.00
32 TMP Trichloroethene	200.000	204.519	-2.3	100	0.00
33 TMP 1,2-Dichloropropane	200.000	183.873	8.1	100	0.00
34 TMP Bromodichloromethane	200.000	194.386	2.8	100	0.00
35 S Toluene-d8	10.000	9.953	0.5	100	0.00
36 TMP Dibromomethane	200.000	190.714	4.6	100	0.00
37 TMP 4-Methyl-2-pentanone	1000.000	959.157	4.1	100	0.00
38 TMP cis-1,3-Dichloropropene	200.000	196.788	1.6	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	200.000	192.021	4.0	100	0.00
41 TMP trans-1,3-Dichloropropene	200.000	193.027	3.5	100	0.00
42 TMP 1,1,2-Trichloroethane	200.000	198.293	0.9	100	0.00
43 TMP 2-Hexanone	1000.000	910.426	9.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	200.000	192.113	3.9	100	0.00
45 TMP Tetrachloroethene	200.000	198.996	0.5	100	0.00
46 TMP Dibromochloromethane	200.000	201.906	-1.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	200.000	194.283	2.9	100	0.00
48 TMP Chlorobenzene	200.000	190.337	4.8	100	0.00
49 TMP Ethylbenzene	200.000	194.308	2.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	200.000	191.943	4.0	100	0.00
51 TMP m,p-Xylene	400.000	374.985	6.3	100	0.00
52 TMP o-Xylene	200.000	189.296	5.4	100	0.00
53 TMP Styrene	200.000	186.555	6.7	100	0.00
54 TMP Isopropylbenzene	200.000	185.671	7.2	100	0.00
55 TMP Bromoform	200.000	199.448	0.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.721	2.8	100	0.00
58 TMP n-Propylbenzene	200.000	182.658	8.7	100	0.00
59 TMP Bromobenzene	200.000	186.352	6.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	200.000	181.401	9.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	200.000	182.641	8.7	100	0.00
62 TMP 1,2,3-Trichloropropane	200.000	186.482	6.8	100	0.00
63 TMP 2-Chlorotoluene	200.000	176.891	11.6	100	0.00
64 TMP 4-Chlorotoluene	200.000	178.621	10.7	100	0.00
65 TMP tert-Butylbenzene	200.000	187.527	6.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	200.000	182.351	8.8	100	0.00
67 TMP sec-Butylbenzene	200.000	188.649	5.7	100	0.00
68 TMP p-Isopropyltoluene	200.000	192.541	3.7	100	0.00
69 TMP 1,3-Dichlorobenzene	200.000	185.348	7.3	100	0.00
70 TMP 1,4-Dichlorobenzene	200.000	181.419	9.3	100	0.00
71 TMP 1,2-Dichlorobenzene	200.000	189.830	5.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	200.000	204.635	-2.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	200.000	201.817	-0.9	100	0.00
74 TMP Hexachlorobutadiene	200.000	195.782	2.1	100	0.00
75 TMP Naphthalene	200.000	199.180	0.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	200.000	203.645	-1.8	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.02
3 S Dibromofluoromethane	0.264	0.270	-2.3	100	0.00
4 TMP Dichlorodifluoromethane	0.712	0.714	-0.3	100	0.00
5 TMP Chloromethane	0.951	0.846	11.0	100	0.00
6 TMP Vinyl chloride	0.862	0.737	14.5	100	0.00
7 TMP Bromomethane	0.441	0.375	15.0	100	0.00
8 TMP Chloroethane	0.341	0.315	7.6	100	-0.02
9 TMP Trichlorofluoromethane	0.899	0.922	-2.6	105	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.029	6.5	100	-0.02
12 TMP 1,1-Dichloroethene	0.271	0.244	10.0	100	0.00
13 TMP Hexane	0.469	0.423	9.8	100	0.00
14 TMP Methylene chloride	0.269	0.254	5.6	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.726	10.6	100	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.263	16.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.860	9.8	100	0.00
19 TMP 1,1-Dichloroethane	0.547	0.489	10.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.298	2.9	100	0.00
21 TMP 2,2-Dichloropropane	0.347	0.296	14.7	100	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.289	12.2	100	0.00
23 TMP Chloroform	0.477	0.459	3.8	100	0.00
24 TMP 2-Butanone (MEK)	0.173	0.162	6.4	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.702	5.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.388	19.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.465	5.9	100	0.00
28 TMP 1,1-Dichloropropene	0.368	0.356	3.3	100	0.00
29 TMP Carbon tetrachloride	0.396	0.397	-0.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP Benzene	1.103	0.977	11.4	100	0.00
32 TMP Trichloroethene	0.368	0.325	11.7	100	0.00
33 TMP 1,2-Dichloropropane	0.315	0.289	8.3	100	0.00
34 TMP Bromodichloromethane	0.375	0.365	2.7	100	0.00
35 S Toluene-d8	0.975	0.971	0.4	100	0.00
36 TMP Dibromomethane	0.181	0.173	4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.052	3.7	100	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.436	1.6	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.986	0.827	16.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.490	3.5	100	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.265	7.0	100	0.00
43 TMP 2-Hexanone	0.312	0.284	9.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120226.D  
 Acq On : 03 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-4U  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:18:09 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.465	3.9	100	0.00
45 TMP Tetrachloroethene	0.420	0.319	24.0#	100	0.00
46 TMP Dibromochloromethane	0.366	0.370	-1.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.313	17.4	100	0.00
48 TMP Chlorobenzene	0.957	0.911	4.8	100	0.00
49 TMP Ethylbenzene	1.885	1.551	17.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.344	3.9	100	0.00
51 TMP m,p-Xylene	0.705	0.573	18.7	100	0.00
52 TMP o-Xylene	0.683	0.568	16.8	100	0.00
53 TMP Styrene	1.004	0.937	6.7	100	0.00
54 TMP Isopropylbenzene	1.606	1.491	7.2	100	0.00
55 TMP Bromoform	0.269	0.268	0.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.840	2.8	100	0.00
58 TMP n-Propylbenzene	3.386	3.092	8.7	100	0.00
59 TMP Bromobenzene	0.790	0.736	6.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.251	9.3	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.670	8.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.558	6.8	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.817	11.5	100	0.00
64 TMP 4-Chlorotoluene	2.355	2.103	10.7	100	0.00
65 TMP tert-Butylbenzene	2.194	2.057	6.2	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.347	8.9	100	0.00
67 TMP sec-Butylbenzene	3.160	2.980	5.7	100	0.00
68 TMP p-Isopropyltoluene	2.706	2.605	3.7	100	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.361	7.4	100	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.358	9.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.291	5.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.162	-2.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.987	-0.9	100	0.00
74 TMP Hexachlorobutadiene	0.516	0.505	2.1	100	0.00
75 TMP Naphthalene	2.401	2.392	0.4	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.902	-1.9	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	103	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.814	1.9	103	0.00
4 TMP Dichlorodifluoromethane	10.000	8.544	14.6	88	0.00
5 TMP Chloromethane	10.000	8.757	12.4	95	0.00
6 TMP Vinyl chloride	10.000	9.576	4.2	96	0.00
7 TMP Bromomethane	10.000	8.449	15.5	94	0.00
8 TMP Chloroethane	10.000	10.480	-4.8	100	0.00
9 TMP Trichlorofluoromethane	10.000	8.980	10.2	88	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	50.694	-1.4	106	0.00
12 TMP 1,1-Dichloroethene	10.000	10.114	-1.1	101	0.00
13 TMP Hexane	10.000	9.157	8.4	94	0.00
14 TMP Methylene chloride	10.000	9.591	4.1	101	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	48.119	3.8	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.195	-2.0	99	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.317	-3.2	99	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.139	8.6	98	0.00
19 TMP 1,1-Dichloroethane	10.000	9.978	0.2	99	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	9.921	0.8	99	0.00
21 TMP 2,2-Dichloropropane	10.000	9.145	8.6	96	0.00
22 TMP cis-1,2-Dichloroethene	10.000	9.830	1.7	98	0.00
23 TMP Chloroform	10.000	9.698	3.0	103	0.00
24 TMP 2-Butanone (MEK)	50.000	54.827	-9.7	105	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	9.622	3.8	102	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	9.964	0.4	99	0.00
27 TMP 1,1,1-Trichloroethane	10.000	9.585	4.1	98	0.00
28 TMP 1,1-Dichloropropene	10.000	9.524	4.8	99	0.00
29 TMP Carbon tetrachloride	10.000	9.660	3.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.538	4.6	98	0.00
31 TMP Benzene	10.000	9.614	3.9	98	0.00
32 TMP Trichloroethene	10.000	10.357	-3.6	104	0.00
33 TMP 1,2-Dichloropropane	10.000	9.070	9.3	100	0.00
34 TMP Bromodichloromethane	10.000	9.355	6.4	101	0.00
35 S Toluene-d8	10.000	9.830	1.7	98	0.00
36 TMP Dibromomethane	10.000	9.574	4.3	102	0.00
37 TMP 4-Methyl-2-pentanone	50.000	50.398	-0.8	103	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.270	7.3	97	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
40 TMP Toluene	10.000	9.946	0.5	98	0.00
41 TMP trans-1,3-Dichloropropene	10.000	10.186	-1.9	101	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.052	-0.5	101	0.00
43 TMP 2-Hexanone	50.000	53.941	-7.9	106	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.303	-3.0	103	0.00
45 TMP Tetrachloroethene	10.000	9.859	1.4	98	0.00
46 TMP Dibromochloromethane	10.000	10.273	-2.7	103	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.199	-2.0	101	0.00
48 TMP Chlorobenzene	10.000	9.891	1.1	101	0.00
49 TMP Ethylbenzene	10.000	10.334	-3.3	98	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.741	2.6	102	0.00
51 TMP m,p-Xylene	20.000	19.925	0.4	98	0.00
52 TMP o-Xylene	10.000	10.201	-2.0	100	0.00
53 TMP Styrene	10.000	9.562	4.4	96	0.00
54 TMP Isopropylbenzene	10.000	9.658	3.4	97	0.00
55 TMP Bromoform	10.000	9.710	2.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.844	1.6	100	0.00
58 TMP n-Propylbenzene	10.000	9.662	3.4	98	0.00
59 TMP Bromobenzene	10.000	9.804	2.0	101	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.764	2.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.336	6.6	95	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.697	3.0	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.353	6.5	98	0.00
64 TMP 4-Chlorotoluene	10.000	9.597	4.0	99	0.00
65 TMP tert-Butylbenzene	10.000	9.729	2.7	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.713	2.9	101	0.00
67 TMP sec-Butylbenzene	10.000	9.575	4.3	97	0.00
68 TMP p-Isopropyltoluene	10.000	9.912	0.9	99	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.620	3.8	101	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.628	3.7	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.038	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	10.553	-5.5	115	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	10.118	-1.2	106	0.00
74 TMP Hexachlorobutadiene	10.000	10.246	-2.5	103	0.00
75 TMP Naphthalene	10.000	10.320	-3.2	110	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.786	-7.9	112	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	103	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.259	1.9	103	0.00
4 TMP Dichlorodifluoromethane	0.712	0.608	14.6	88	0.00
5 TMP Chloromethane	0.951	0.762	19.9	95	0.00
6 TMP Vinyl chloride	0.862	0.716	16.9	96	0.00
7 TMP Bromomethane	0.441	0.415	5.9	94	0.00
8 TMP Chloroethane	0.341	0.349	-2.3	100	0.00
9 TMP Trichlorofluoromethane	0.899	0.807	10.2	88	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.032	-3.2	106	0.00
12 TMP 1,1-Dichloroethene	0.271	0.250	7.7	101	0.00
13 TMP Hexane	0.469	0.395	15.8	94	0.00
14 TMP Methylene chloride	0.269	0.271	-0.7	101	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.754	7.1	99	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.276	12.1	99	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.871	8.6	98	0.00
19 TMP 1,1-Dichloroethane	0.547	0.497	9.1	99	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.305	0.7	99	0.00
21 TMP 2,2-Dichloropropane	0.347	0.282	18.7	96	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.287	12.8	98	0.00
23 TMP Chloroform	0.477	0.462	3.1	103	0.00
24 TMP 2-Butanone (MEK)	0.173	0.182	-5.2	105	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.711	3.8	102	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.392	18.2	99	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.444	10.1	98	0.00
28 TMP 1,1-Dichloropropene	0.368	0.351	4.6	99	0.00
29 TMP Carbon tetrachloride	0.396	0.383	3.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.057	5.0	98	0.00
31 TMP Benzene	1.103	0.976	11.5	98	0.00
32 TMP Trichloroethene	0.368	0.330	10.3	104	0.00
33 TMP 1,2-Dichloropropane	0.315	0.286	9.2	100	0.00
34 TMP Bromodichloromethane	0.375	0.351	6.4	101	0.00
35 S Toluene-d8	0.975	0.959	1.6	98	0.00
36 TMP Dibromomethane	0.181	0.174	3.9	102	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.055	-1.9	103	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.411	7.2	97	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
40 TMP Toluene	0.986	0.858	13.0	98	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.517	-1.8	101	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.279	2.1	101	0.00
43 TMP 2-Hexanone	0.312	0.336	-7.7	106	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.499	-3.1	103	0.00
45 TMP Tetrachloroethene	0.420	0.326	22.4#	98	0.00
46 TMP Dibromochloromethane	0.366	0.376	-2.7	103	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.329	13.2	101	0.00
48 TMP Chlorobenzene	0.957	0.947	1.0	101	0.00
49 TMP Ethylbenzene	1.885	1.655	12.2	98	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.349	2.5	102	0.00
51 TMP m,p-Xylene	0.705	0.611	13.3	98	0.00
52 TMP o-Xylene	0.683	0.614	10.1	100	0.00
53 TMP Styrene	1.004	0.960	4.4	96	0.00
54 TMP Isopropylbenzene	1.606	1.551	3.4	97	0.00
55 TMP Bromoform	0.269	0.261	3.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-8romofluorobenzene	0.864	0.851	1.5	100	0.00
58 TMP n-Propylbenzene	3.386	3.272	3.4	98	0.00
59 TMP Bromobenzene	0.790	0.774	2.0	101	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.423	2.4	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.685	6.5	95	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.581	3.0	100	0.00
63 TMP 2-Chlorotoluene	2.054	1.921	6.5	98	0.00
64 TMP 4-Chlorotoluene	2.355	2.260	4.0	99	0.00
65 TMP tert-Butylbenzene	2.194	2.134	2.7	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.501	2.9	101	0.00
67 TMP sec-Butylbenzene	3.160	3.025	4.3	97	0.00
68 TMP p-Isopropyltoluene	2.706	2.683	0.8	99	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.413	3.8	101	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.442	3.7	100	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.366	-0.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.167	-5.7	115	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.990	-1.2	106	0.00
74 TMP Hexachlorobutadiene	0.516	0.528	-2.3	103	0.00
75 TMP Naphthalene	2.401	2.478	-3.2	110	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.955	-7.9	112	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	44988	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35045	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19156	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	11636	9.814	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.10%	
30) 1,2-Dichloroethane-d4	4.36	102	2558	9.538	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	95.40%	
35) Toluene-d8	5.98	98	43138	9.830	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	98.30%	
57) 4-Bromofluorobenzene	8.38	95	16293	9.844	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	98.40%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	27352	8.544	ppb		94
5) Chloromethane	1.23	50	34280	8.757	ppb		98
6] Vinyl chloride	1.30	62	32226	9.576	ppb		94
7) Bromomethane	1.54	94	18653	8.449	ppb	#	60
8] Chloroethane	1.61	64	15689	10.480	ppb		82
9) Trichlorofluoromethane	1.77	101	36326	8.980	ppb		68
10) 2-Propanol	2.41	45	119	No Calib			
11) Acetone	2.26	58	7116	50.694	ppb		98
12] 1,1-Dichloroethene	2.19	96	11256	10.114	ppb	#	80
13) Hexane	3.05	57	17748	9.157	ppb		97
14) Methylene chloride	2.61	84	12180	9.591	ppb		82
15) t-Butyl alcohol (TBA)	2.73	59	10016	48.119	ppb		94
16] Methyl t-butyl ether (...)	2.84	73	33936	10.195	ppb		98
17] trans-1,2-Dichloroethene	2.83	96	12405	10.317	ppb		89
18) Diisopropyl ether (DIPE)	3.24	45	39166	9.139	ppb		99
19] 1,1-Dichloroethane	3.18	63	22344	9.978	ppb		96
20) Ethyl t-butyl ether (E...)	3.55	87	13717	9.921	ppb		91
21) 2,2-Dichloropropane	3.67	77	12689	9.145	ppb		92
22] cis-1,2-Dichloroethene	3.67	96	12925	9.830	ppb		94
23) Chloroform	3.94	83	20790	9.698	ppb		92
24) 2-Butanone (MEK)	3.70	43	40996	54.827	ppb		97
25) t-Amyl methyl ether (T...)	4.49	73	31973	9.622	ppb		98
26] 1,2-Dichloroethane (EDC)	4.42	62	17654	9.964	ppb		96
27] 1,1,1-Trichloroethane	4.08	97	19986	9.585	ppb		96
28) 1,1-Dichloropropene	4.22	75	15777	9.524	ppb		89
29) Carbon tetrachloride	4.21	117	17211	9.660	ppb		92
31] Benzene	4.39	78	43890	9.614	ppb		93
32] Trichloroethene	4.93	95	14849	10.357	ppb		94
33) 1,2-Dichloropropane	5.13	63	12847	9.070	ppb		100
34) Bromodichloromethane	5.37	83	15793	9.355	ppb		95
36) Dibromomethane	5.23	93	7810	9.574	ppb		83

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

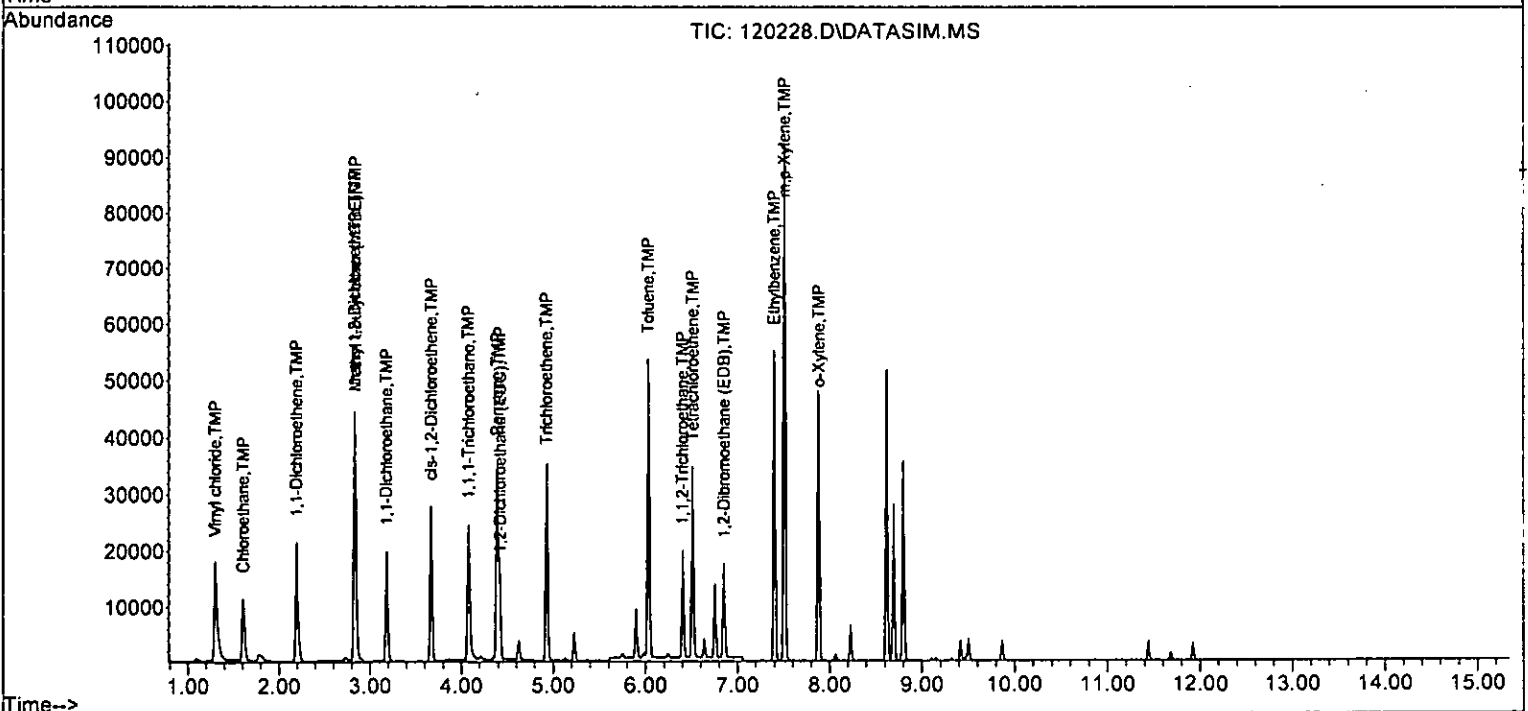
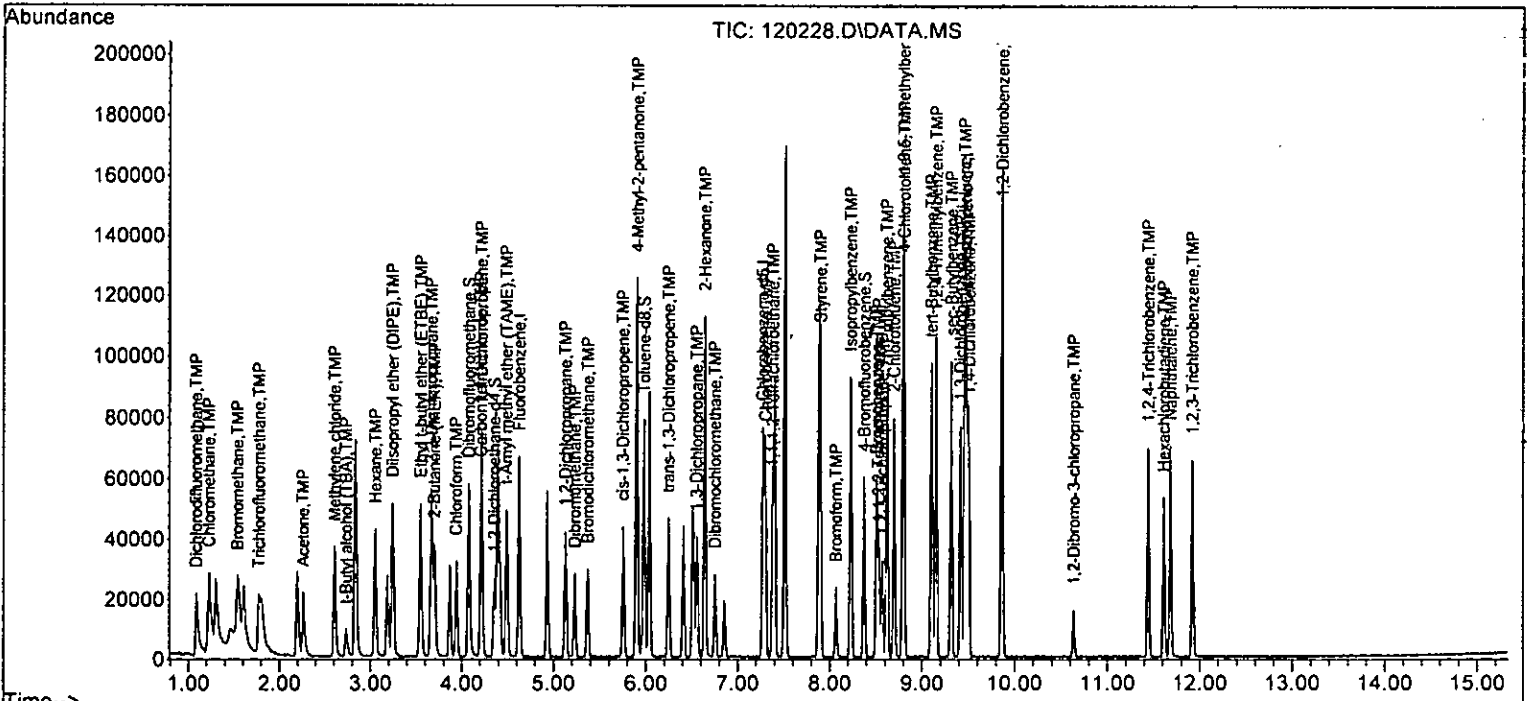
Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	12277	50.398	ppb	97
38) cis-1,3-Dichloropropene	5.75	75	18478	9.270	ppb	93
40] Toluene	6.03	92	30086	9.946	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	18120	10.186	ppb	94
42] 1,1,2-Trichloroethane	6.40	83	9764	10.052	ppb	97
43) 2-Hexanone	6.64	43	58897	53.941	ppb	98
44) 1,3-Dichloropropane	6.55	76	17490	10.303	ppb	99
45] Tetrachloroethene	6.51	164	11431	9.859	ppb	99
46) Dibromochloromethane	6.75	129	13182	10.273	ppb	95
47] 1,2-Dibromoethane (EDB)	6.85	107	11543	10.199	ppb	99
48) Chlorobenzene	7.30	112	33180	9.891	ppb	99
49] Ethylbenzene	7.40	91	57987	10.334	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	12227	9.741	ppb	79
51] m,p-Xylene	7.51	106	42826	19.925	ppb	99
52] o-Xylene	7.88	106	21519	10.201	ppb	98
53) Styrene	7.90	104	33648	9.562	ppb	97
54) Isopropylbenzene	8.23	105	54362	9.658	ppb	97
55) Bromoform	8.07	173	9156	9.710	ppb	97
58) n-Propylbenzene	8.62	91	62670	9.662	ppb	90
59) Bromobenzene	8.51	156	14828	9.804	ppb	87
60) 1,3,5-Trimethylbenzene	8.80	105	46416	9.764	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	13118	9.336	ppb	76
62) 1,2,3-Trichloropropane	8.57	75	11122	9.697	ppb	96
63) 2-Chlorotoluene	8.70	91	36803	9.353	ppb	100
64) 4-Chlorotoluene	8.81	91	43295	9.597	ppb	96
65) tert-Butylbenzene	9.10	119	40883	9.729	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	47907	9.713	ppb	97
67) sec-Butylbenzene	9.32	105	57955	9.575	ppb	96
68) p-Isopropyltoluene	9.46	119	51388	9.912	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	27070	9.620	ppb	91
70) 1,4-Dichlorobenzene	9.51	146	27620	9.628	ppb	97
71) 1,2-Dichlorobenzene	9.86	146	26163	10.038	ppb	93
72) 1,2-Dibromo-3-chloropr...	10.64	75	3197	10.553	ppb	85
73) 1,2,4-Trichlorobenzene	11.44	180	18964	10.118	ppb	95
74) Hexachlorobutadiene	11.61	225	10119	10.246	ppb	95
75) Naphthalene	11.68	128	47474	10.320	ppb	97
76) 1,2,3-Trichlorobenzene	11.92	180	18295	10.786	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-02-22\  
 Data File : 120228.D  
 Acq On : 03 Dec 2022 03:08 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26c  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 05 13:42:59 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Method Path : D:\Methods\Inst11\  
 Method File : VB121222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Tue Dec 13 13:28:26 2022  
 Response Via : Initial Calibration

Calibration Files  
 0.02=121228.D 0.04=121229.D 0.1 =121230.D 0.2 =121231.D 0.5 =121232.D 1 =121233.D 2 =121234.D 5 =121235.D 10 =121236.D 20 =121237.D  
 50 =121238.D 100 =121239.D 150 =121240.D 200 =121241.D

Compound	0.02	0.04	0.1	0.2	0.5	1	2	5	10	20	50	100	150	200	Avg	%RSD
1) I Fluorobenzene																0.000# -1.00
2) TMP Ethanol																2.74
3) 5 Dibromofluorom...	0.271	0.281	0.255	0.262	0.258	0.257	0.258	0.258	0.266	0.266	0.262	0.271	0.260	0.269	0.264	5.37
4) TMP Dichlorodifluo...					0.602	0.734	0.675	0.681	0.674	0.683	0.690	0.710	0.722	0.715	0.688	4.91
5) TMP Chloromethane						0.960	0.956	0.858	0.863	0.845	0.860	0.866	0.865	0.872	0.883	9.68
6) TMP Vinyl chloride	0.948	0.762	0.629	0.666	0.703	0.710	0.702	0.714	0.746	0.724	0.736	0.733	0.737	0.733	0.732	8.75
7) TMP Bromomethane						0.378	0.305	0.332	0.397	0.388	0.386	0.380	0.381	0.368		8.86
8) TMP Chloroethane						0.391	0.392	0.312	0.318	0.331	0.325	0.322	0.337	0.318	0.319	6.96
9) TMP Trichlorofluor...				0.934	0.736	0.842	0.846	0.866	0.846	0.833	0.873	0.922	0.937	0.934	0.870	0.000
10) TMP 2-Propanol																-1.00
11) TMP Acetone					0.041	0.042	0.038	0.034	0.035	0.035	0.035	0.037	0.037	0.038	0.037	7.25
12) TMP 1,1-Dichloroet...	0.233	0.250	0.237	0.240	0.262	0.228	0.243	0.234	0.238	0.239	0.241	0.238	0.240			3.66
13) TMP Hexane			0.472	0.474	0.450	0.412	0.436	0.415	0.425	0.418	0.419	0.417	0.434			5.43
14) TMP Methylene chlo...						0.309	0.288	0.261	0.261	0.253	0.255	0.256	0.269			7.94
15) TMP t-Butyl alcoho...																4.94
16) TMP Methyl t-butyl...	0.686	0.752	0.748	0.748	0.737	0.729	0.760	0.728	0.732	0.724	0.726	0.728	0.728	0.733		2.60
17) TMP trans-1,2-Dich...	0.255	0.280	0.264	0.357	0.264	0.273	0.276	0.260	0.261	0.258	0.259	0.260	0.272			10.21
18) TMP Diisopropyl et...			1.080	0.900	0.923	0.948	0.924	0.932	0.901	0.922	0.906	0.913	0.905	0.932		5.48
19) TMP 1,1-Dichloroet...	0.487	0.529	0.508	0.517	0.510	0.492	0.517	0.493	0.502	0.497	0.499	0.500	0.504			2.45
20) TMP Ethyl t-butyl ...		0.323	0.247	0.315	0.300	0.284	0.307	0.286	0.298	0.299	0.299	0.298	0.298	0.296		6.69
21) TMP 2,2-Dichloropr...		0.378	0.357	0.323	0.308	0.299	0.316	0.280	0.299	0.310	0.301	0.304	0.316			8.89
22) TMP cis-1,2-Dichlo...	0.292	0.303	0.288	0.293	0.288	0.277	0.290	0.277	0.283	0.280	0.281	0.283	0.286			2.70
23) TMP Chloroform		0.509	0.539	0.489	0.487	0.472	0.458	0.450	0.457	0.456	0.465	0.466	0.477			5.67
24) TMP 2-Butanone (MEK)			0.211	0.198	0.184	0.192	0.178	0.168	0.170	0.179	0.182	0.166	0.183			7.70
25) TMP t-Amyl methyl ...		0.656	0.767	0.680	0.712	0.680	0.716	0.670	0.687	0.687	0.679	0.695	0.694			4.29
26) TMP 1,2-Dichloroet...	0.454	0.469	0.424	0.424	0.409	0.391	0.409	0.392	0.392	0.398	0.394	0.396	0.399	0.413		6.13
27) TMP 1,1,1-Trichlor...	0.410	0.444	0.438	0.446	0.446	0.428	0.446	0.432	0.445	0.444	0.444	0.450	0.453	0.440		2.69
28) TMP 1,1-Dichloropr...		0.376	0.371	0.377	0.384	0.350	0.365	0.345	0.353	0.351	0.353	0.359	0.362			3.63
29) TMP Carbon tetrach...		0.298	0.333	0.365	0.372	0.360	0.374	0.368	0.379	0.387	0.398	0.404	0.367			8.13
30) 5 1,2-Dichloroet...	0.056	0.062	0.061	0.062	0.058	0.055	0.060	0.064	0.062	0.061	0.061	0.060	0.062	0.060		4.25
31) TMP Benzene		0.991	1.074	1.007	1.033	1.017	0.971	1.008	0.967	0.981	0.973	0.979	0.985	0.999		3.13
32) TMP Trichloroethene		0.312	0.330	0.311	0.319	0.315	0.301	0.318	0.305	0.314	0.317	0.321	0.324	0.316		2.52
33) TMP 1,2-Dichloropr...		0.326	0.333	0.297	0.306	0.269	0.294	0.278	0.287	0.290	0.289	0.291	0.296			6.46
34) TMP Bromodichlorom...		0.373	0.418	0.325	0.354	0.326	0.352	0.339	0.354	0.357	0.367	0.366	0.357			7.13
35) 5 Toluene-d8	0.966	0.975	0.985	0.946	0.966	0.960	0.948	0.943	0.941	0.953	0.990	0.953	0.957	0.960		1.55
36) TMP Dibromomethane		0.122	0.187	0.161	0.179	0.170	0.175	0.170	0.173	0.171	0.174	0.176	0.169			9.91
37) TMP 4-Methyl-2-pen...		0.052	0.055	0.057	0.051	0.051	0.051	0.051	0.052	0.050	0.051	0.051	0.052			4.31

Response Factor Report GCMS11

Method Path : D:\Methods\Inst11\  
 Method File : VB121222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 38) TMP cis-1,3-Dichlo... 0.595 0.412 0.388 0.425 0.378 0.418 0.411 0.416 0.418 0.424 0.429 0.429 13.35

39) I	Chlorobenzene-d5	-ISTD-												
40) TMP Toluene	0.975	0.916	0.864	0.876	0.844	0.836	0.856	0.812	0.814	0.826	0.851	0.821	0.858	5.51
41) TMP trans-1,3-Dich...	0.448	0.419	0.540	0.494	0.495	0.481	0.472	0.480	0.490	0.511	0.491	0.484	6.47	
42) TMP 1,1,2-Trichlor...	0.269	0.270	0.261	0.274	0.263	0.260	0.268	0.253	0.258	0.259	0.270	0.259	2.43	
43) TMP 2-Hexanone	0.373	0.349	0.358	0.346	0.344	0.328	0.322	0.310	0.322	0.303	0.335	0.335	6.63	
44) TMP 1,3-Dichloropr...	0.392	0.473	0.504	0.488	0.477	0.496	0.463	0.468	0.461	0.480	0.465	0.470	6.25	
45) TMP Tetrachloroethene	0.375	0.353	0.351	0.339	0.329	0.336	0.319	0.320	0.325	0.337	0.323	0.342	7.07	
46) TMP Dibromochlorom...	0.323	0.330	0.342	0.377	0.340	0.353	0.354	0.351	0.365	0.385	0.371	0.354	5.45	
47) TMP 1,2-Dibromoeth...	0.340	0.343	0.330	0.337	0.325	0.320	0.313	0.318	0.321	0.334	0.319	0.327	2.94	
48) TMP Chlorobenzene	0.967	0.902	0.944	0.903	0.920	0.938	0.901	0.896	0.923	0.956	0.927	0.925	2.59	
49) TMP Ethylbenzene	1.669	1.713	1.652	1.661	1.632	1.607	1.637	1.544	1.541	1.552	1.594	1.611	3.64	
50) TMP 1,1,1,2-Tetrac...	0.249	0.343	0.343	0.328	0.338	0.350	0.328	0.330	0.347	0.359	0.348	0.333	8.91	
51) TMP m,p-Xylene	0.642	0.649	0.630	0.630	0.618	0.605	0.615	0.576	0.574	0.576	0.595	0.577	4.53	
52) TMP o-Xylene	0.596	0.623	0.621	0.613	0.603	0.596	0.608	0.573	0.567	0.574	0.594	0.571	3.33	
53) TMP Styrene	1.002	0.894	1.026	0.985	1.016	0.999	0.937	0.941	0.954	0.990	0.960	0.973	4.07	
54) TMP Isopropylbenzene	1.708	1.559	1.577	1.567	1.549	1.607	1.493	1.505	1.528	1.591	1.520	1.564	3.80	
55) TMP Bromoform	0.227	0.233	0.258	0.238	0.244	0.255	0.248	0.257	0.263	0.281	0.272	0.252	6.51	

56) I	1,4-Dichlorobenzen...	-ISTD-															
57) S	4-8-bromofluorob...	0.814	0.848	0.822	0.837	0.855	0.839	0.842	0.822	0.856	0.849	0.819	0.846	0.895	0.877	0.844	2.68
58) TMP n-Propylbenzene	3.483	3.243	3.582	3.255	3.233	3.318	3.195	3.184	3.152	3.279	3.169	3.281	4.13				
59) TMP Bromobenzene	0.791	0.735	0.815	0.748	0.766	0.775	0.765	0.762	0.756	0.792	0.771	0.770	2.90				
60) TMP 1,3,5-Trimethy...	3.022	2.473	2.471	2.392	2.353	2.392	2.345	2.326	2.340	2.413	2.345	2.443	8.13				
61) TMP 1,1,2,2-Tetrac...	0.708	0.700	0.748	0.716	0.704	0.709	0.694	0.680	0.661	0.687	0.667	0.698	3.50				
62) TMP 1,2,3-Trichlor...	0.788	0.543	0.562	0.558	0.598	0.578	0.576	0.564	0.546	0.575	0.556	0.586	11.78				
63) TMP 2-Chlorotoluene	2.337	1.895	1.958	1.995	1.826	1.927	1.890	1.858	1.863	1.926	1.871	1.941	7.22				
64) TMP 4-Chlorotoluene	2.951	2.363	2.279	2.234	2.107	2.241	2.170	2.172	2.155	2.236	2.181	2.281	10.21				
65) TMP tert-Butylbenzene	2.292	2.123	2.214	2.097	2.037	2.128	2.089	2.099	2.113	2.212	2.143	2.141	3.36				
66) TMP 1,2,4-Trimethy...	2.838	2.581	2.488	2.348	2.358	2.476	2.415	2.385	2.390	2.501	2.457	2.476	5.61				
67) TMP sec-Butylbenzene	3.358	3.087	3.143	3.073	2.962	3.055	3.076	3.049	3.040	3.175	3.113	3.103	3.27				
68) TMP p-Isopropyltol...	2.690	2.647	2.701	2.651	2.557	2.707	2.636	2.658	2.669	2.775	2.698	2.672	2.03				
69) TMP 1,3-Dichlorobe...	1.574	1.430	1.453	1.475	1.358	1.417	1.407	1.412	1.386	1.444	1.417	1.434	3.93				
70) TMP 1,4-Dichlorobe...	1.640	1.478	1.560	1.454	1.376	1.448	1.427	1.415	1.392	1.452	1.428	1.461	5.25				
71) TMP 1,2-Dichlorobe...	1.351	1.505	1.426	1.361	1.340	1.390	1.361	1.351	1.336	1.393	1.365	1.380	3.56				
72) TMP 1,2-Dibromo-3-...	0.154	0.158	0.142	0.142	0.149	0.155	0.153	0.155	0.168	0.162	0.155	0.155	4.70				
73) TMP 1,2,4-Trichlor...	0.890	0.919	0.977	0.936	0.922	0.968	0.994	1.002	1.024	1.085	1.061	0.980	6.23				
74) TMP Hexachlorobuta...	0.605	0.526	0.499	0.507	0.520	0.540	0.542	0.545	0.551	0.575	0.546	0.542	5.53				
75) TMP Naphthalene	3.498	2.667	2.424	2.424	2.449	2.383	2.368	2.420	2.617	2.547	2.597	2.597	13.62				
76) TMP 1,2,3-Trichlor...	0.906	0.885	0.816	0.842	0.855	0.916	0.906	0.907	0.939	1.002	0.970	0.904	6.04				

(#) = Out of Range

## Compound List Report GCMS11

Method Path : D:\Methods\Inst11\

Method File : VB121222ms11.M

Title : 8260 Purge &amp; Trap Volatiles Dual Acquisition

Last Update : Tue Dec 13 13:28:26 2022

Response Via : Initial Calibration

Total Cpnds : 76

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Fluorobenzene	96	4.63	1.000	A	1	A	B
2	T	Ethanol	45	1.86	0.402	A	1	A	B
3	S	Dibromofluoromethane	113	4.07	0.879	A	0	A	B
4	T	Dichlorodifluoromethane	85	1.08	0.233	A	1	A	B
5	T	Chloromethane	50	1.22	0.263	A	1	A	B
6	T	Vinyl chloride	-62	1.29	0.279	A	1	A	B
7	T	Bromomethane	94	1.53	0.331	A	1	A	B
8	T	Chloroethane	-64	1.59	0.343	A	1	A	B
9	T	Trichlorofluoromethane	101	1.79	0.387	A	1	A	B
10	T	2-Propanol	45	2.41	0.521	A	1	A	B
11	T	Acetone	58	2.26	0.489	A	1	A	B
12	T	1,1-Dichloroethene	-96	2.19	0.472	A	2	A	B
13	T	Hexane	57	3.05	0.659	A	2	A	B
14	T	Methylene chloride	84	2.60	0.562	A	2	A	B
15	T	t-Butyl alcohol (TBA)	59	2.73	0.590	A	1	A	B
16	T	Methyl t-butyl ether (MTBE)	-73	2.83	0.611	A	1	A	B
17	T	trans-1,2-Dichloroethene	-96	2.82	0.610	A	2	A	B
18	T	Diisopropyl ether (DIPE)	45	3.24	0.701	A	3	A	B
19	T	1,1-Dichloroethane	-63	3.18	0.688	A	2	A	B
20	T	Ethyl t-butyl ether (ETBE)	87	3.55	0.767	A	3	A	B
21	T	2,2-Dichloropropane	77	3.66	0.791	A	1	A	B
22	T	cis-1,2-Dichloroethene	-96	3.67	0.793	A	2	A	B
23	T	Chloroform	83	3.94	0.851	A	1	A	B
24	T	2-Butanone (MEK)	43	3.70	0.799	A	2	A	B
25	T	t-Amyl methyl ether (TAME)	73	4.49	0.970	A	2	A	B
26	T	1,2-Dichloroethane (EDC)	-62	4.41	0.953	A	1	A	B
27	T	1,1,1-Trichloroethane	-97	4.08	0.882	A	2	A	B
28	T	1,1-Dichloropropene	75	4.22	0.911	A	2	A	B
29	T	Carbon tetrachloride	117	4.21	0.909	A	1	A	B
30	S	1,2-Dichloroethane-d4	102	4.35	0.940	A	1	A	B
31	T	Benzene	-78	4.38	0.948	A	1	A	B
32	T	Trichloroethene	-95	4.93	1.065	A	3	A	B
33	T	1,2-Dichloropropane	63	5.13	1.109	A	1	A	B
34	T	Bromodichloromethane	83	5.37	1.159	A	2	A	B
35	S	Toluene-d8	98	5.98	1.293	A	1	A	B
36	T	Dibromomethane	93	5.23	1.131	A	2	A	B
37	T	4-Methyl-2-pentanone	85	5.91	1.276	A	2	A	B
38	T	cis-1,3-Dichloropropene	75	5.75	1.243	A	2	A	B
39	I	Chlorobenzene-d5	117	7.27	1.000	A	1	A	B
40	T	Toluene	-92	6.03	0.829	A	1	A	B
41	T	trans-1,3-Dichloropropene	75	6.25	0.859	A	2	A	B
42	T	1,1,2-Trichloroethane	-83	6.40	0.881	A	2	A	B
43	T	2-Hexanone	43	6.64	0.913	A	3	A	B
44	T	1,3-Dichloropropane	76	6.55	0.901	A	1	A	B
45	T	Tetrachloroethene	-164	6.51	0.896	A	3	A	B
46	T	Dibromochloromethane	129	6.75	0.929	A	1	A	B
47	T	1,2-Dibromoethane (EDB)	-107	6.85	0.943	A	2	A	B
48	T	Chlorobenzene	112	7.30	1.004	A	2	A	B
49	T	Ethylbenzene	-91	7.40	1.018	A	1	A	B
50	T	1,1,1,2-Tetrachloroethane	131	7.38	1.015	A	2	A	B
51	T	m,p-Xylene	-106	7.51	1.033	A	1	A	B
52	T	o-Xylene	-106	7.88	1.084	A	1	A	B
53	T	Styrene	104	7.90	1.086	A	1	A	B
54	T	Isopropylbenzene	105	8.23	1.131	A	1	A	B
55	T	Bromoform	173	8.07	1.110	A	2	A	B



56	I	1,4-Dichlorobenzene-d4	152	9.48	1.000	A	2	A	B
57	S	4-Bromofluorobenzene	95	8.38	0.883	A	2	A	B
58	T	n-Propylbenzene	91	8.63	0.910	A	1	A	B
59	T	Bromobenzene	156	8.51	0.897	A	2	A	B
60	T	1,3,5-Trimethylbenzene	105	8.79	0.927	A	1	A	B
61	T	1,1,2,2-Tetrachloroethane	83	8.53	0.900	A	2	A	B
62	T	1,2,3-Trichloropropane	75	8.57	0.904	A	3	A	R
63	T	2-Chlorotoluene	91	8.70	0.917	A	1	A	B
64	T	4-Chlorotoluene	91	8.81	0.929	A	1	A	B
65	T	tert-Butylbenzene	119	9.10	0.960	A	2	A	B
66	T	1,2,4-Trimethylbenzene	105	9.15	0.965	A	1	A	B
67	T	sec-Butylbenzene	105	9.31	0.982	A	1	A	B
68	T	p-Isopropyltoluene	119	9.46	0.998	A	2	A	B
69	T	1,3-Dichlorobenzene	146	9.42	0.993	A	2	A	B
70	T	1,4-Dichlorobenzene	146	9.50	1.002	A	2	A	B
71	T	1,2-Dichlorobenzene	146	9.86	1.040	A	2	A	B
72	T	1,2-Dibromo-3-chloropropane	75	10.63	1.121	A	2	A	B
73	T	1,2,4-Trichlorobenzene	180	11.44	1.206	A	2	A	B
74	T	Hexachlorobutadiene	225	11.61	1.225	A	2	A	B
75	T	Naphthalene	128	11.68	1.232	A	2	A	B
76	T	1,2,3-Trichlorobenzene	180	11.92	1.257	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

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VB121222ms11.M Thu Dec 15 12:13:03 2022

Method Path : D:\Methods\Inst11\  
 Method File : VB121222ms11.M  
 Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Last Update : Tue Dec 13 13:28:26 2022  
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.02	0	10	Y:\Proc_GCMS11\12-12-22\121228.D
2	0.04	0	10	Y:\Proc_GCMS11\12-12-22\121229.D
3	0.1	0	10	Y:\Proc_GCMS11\12-12-22\121230.D
4	0.2	0	10	Y:\Proc_GCMS11\12-12-22\121231.D
5	0.5	1	10	Y:\Proc_GCMS11\12-12-22\121232.D
6	1	1	10	Y:\Proc_GCMS11\12-12-22\121233.D
7	2	2	10	Y:\Proc_GCMS11\12-12-22\121234.D
8	5	5	10	Y:\Proc_GCMS11\12-12-22\121235.D
9	10	10	10	Y:\Proc_GCMS11\12-12-22\121236.D
10	20	20	10	Y:\Proc_GCMS11\12-12-22\121237.D
11	50	50	10	Y:\Proc_GCMS11\12-12-22\121238.D
12	100	100	10	Y:\Proc_GCMS11\12-12-22\121239.D
13	150	150	10	Y:\Proc_GCMS11\12-12-22\121240.D
14	200	200	10	Y:\Proc_GCMS11\12-12-22\121241.D

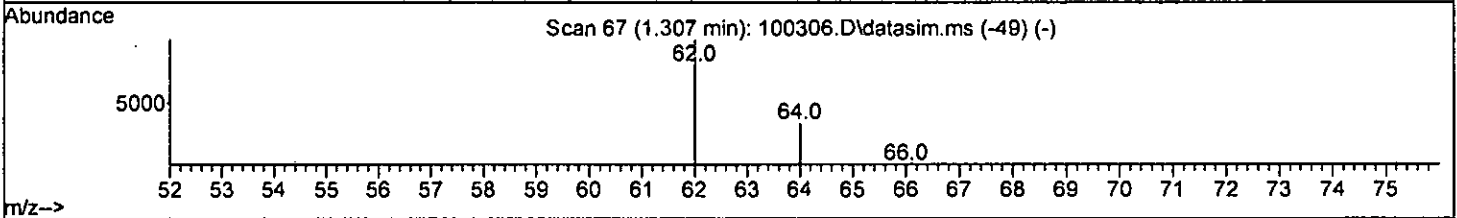
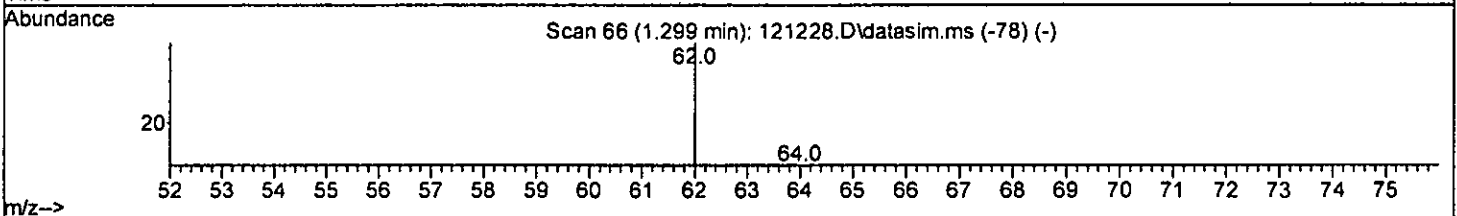
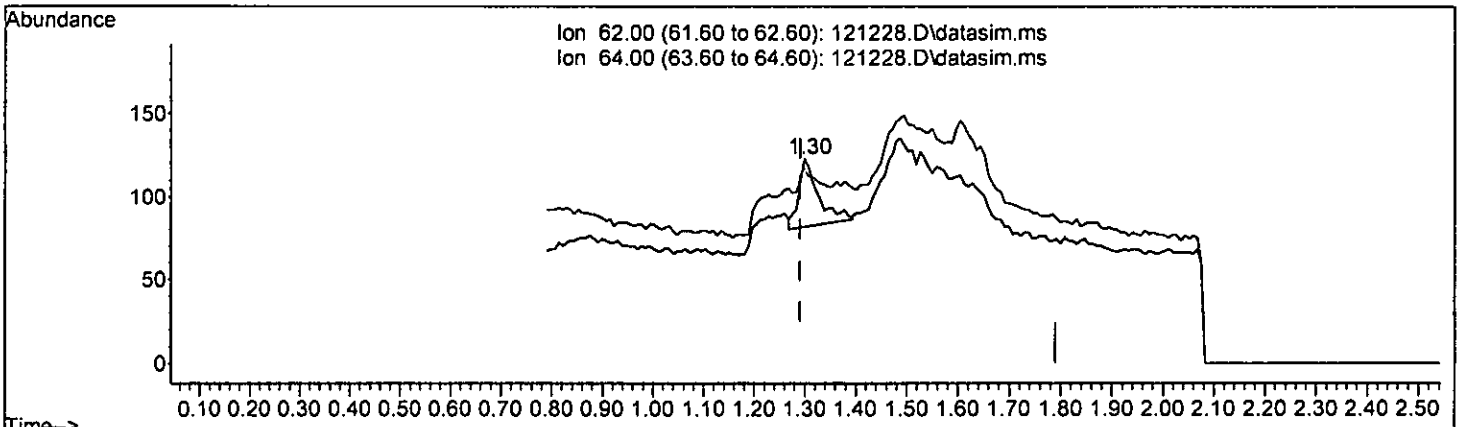
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1	0.02	Dec 13 12:29 2022	Dec 13 12:25 2022	12 Dec 2022 10:36 pm
2	0.04	Dec 13 12:29 2022	Dec 13 12:25 2022	12 Dec 2022 10:59 pm
3	0.1	Dec 13 12:29 2022	Dec 13 12:27 2022	12 Dec 2022 11:21 pm
4	0.2	Dec 13 12:29 2022	Dec 13 12:28 2022	12 Dec 2022 11:44 pm
5	0.5	Dec 13 12:29 2022	Dec 13 12:28 2022	13 Dec 2022 12:06 am
6	1	Dec 13 12:29 2022	Dec 13 12:29 2022	13 Dec 2022 12:29 am
7	2	Dec 13 12:29 2022	Dec 13 12:29 2022	13 Dec 2022 12:51 am
8	5	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 01:14 am
9	10	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 01:36 am
10	20	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 01:58 am
11	50	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 02:21 am
12	100	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 02:43 am
13	150	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 03:06 am
14	200	Dec 13 12:29 2022	Dec 13 12:23 2022	13 Dec 2022 03:28 am

VB121222ms11.M Thu Dec 15 12:13:09 2022

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121228.D\data.ms

(6) Vinyl chloride (TMP)

1.299min (+ 0.007) 0.031 ppb

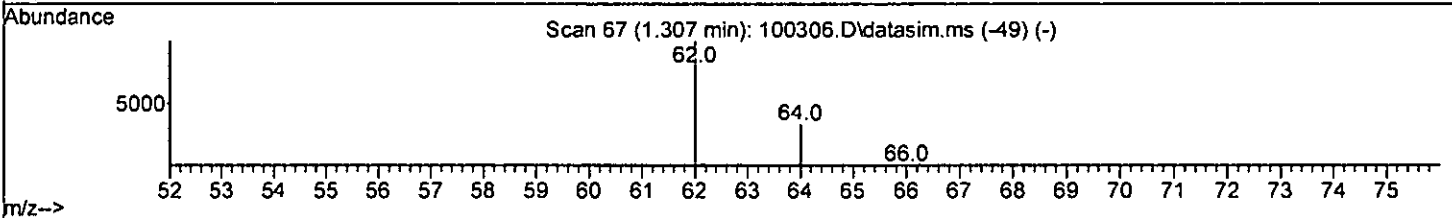
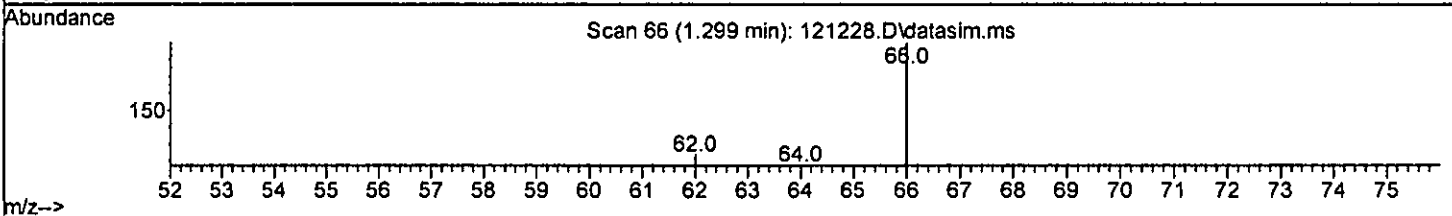
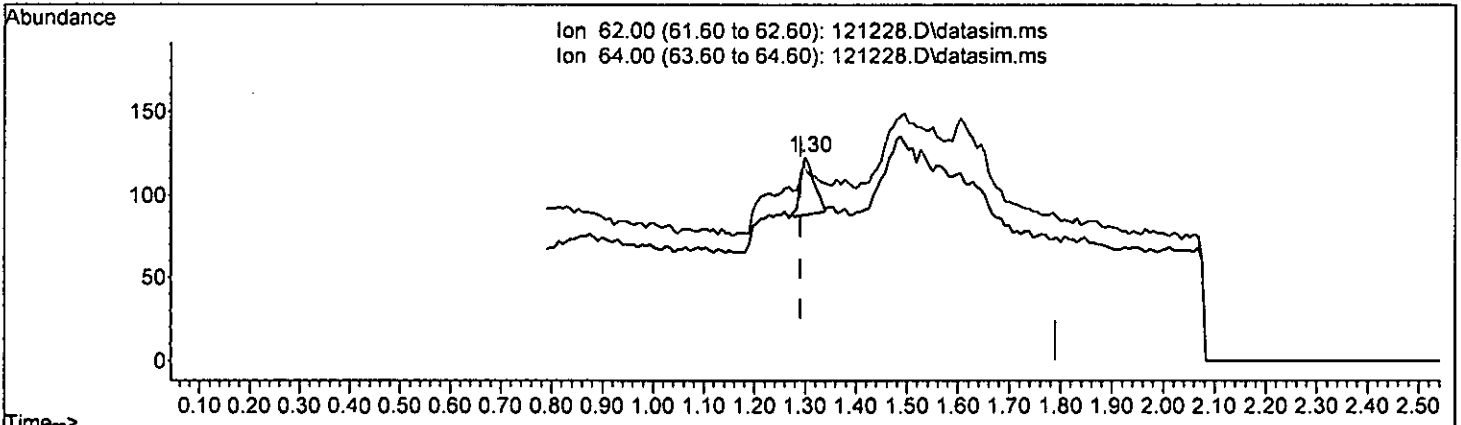
response	112		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	32.43	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121228.D\data.ms

(6) Vinyl chloride (TMP)

1.299min (+ 0.007) 0.018 ppb m

response	64	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	95.12#
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 JGM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	10.272	-2.7	100	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.08#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.22#
6 TMP	Vinyl chloride	0.020	0.018	10.0	69	0.00
7 TMP	Bromomethane	-1.000	0.070	0.0	0	0.02
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP	Trichlorofluoromethane	-1.000	0.000	0.0	0	-1.79#
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.26#
12 TMP	1,1-Dichloroethene	0.020	0.000	100.0#	0	-2.19#
13 TMP	Hexane	-1.000	0.047	0.0	0	0.00
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.73#
16 TMP	Methyl t-butyl ether (MTBE)	0.020	0.000	100.0#	0	-2.83#
17 TMP	trans-1,2-Dichloroethene	0.020	0.000	100.0#	0	-2.82#
18 TMP	Diisopropyl ether (DIPE)	-1.000	0.000	0.0	0	-3.24#
19 TMP	1,1-Dichloroethane	0.020	0.000	100.0#	0	-3.18#
20 TMP	Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP	2,2-Dichloropropane	-1.000	0.034	0.0	0	0.07
22 TMP	cis-1,2-Dichloroethene	0.020	0.000	100.0#	0	-3.67#
23 TMP	Chloroform	-1.000	0.029	0.0	0	0.00
24 TMP	2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.70#
25 TMP	t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.49#
26 TMP	1,2-Dichloroethane (EDC)	0.020	0.000	100.0#	0	-4.41#
27 TMP	1,1,1-Trichloroethane	0.020	0.000	100.0#	0	-4.08#
28 TMP	1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.22#
29 TMP	Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S	1,2-Dichloroethane-d4	10.000	9.205	7.9	100	0.00
31 TMP	Benzene	0.020	0.000	100.0#	0	-4.38#
32 TMP	Trichloroethene	0.020	0.000	100.0#	0	-4.93#
33 TMP	1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.13#
34 TMP	Bromodichloromethane	-1.000	0.000	0.0	0	-5.37#
35 S	Toluene-d8	10.000	10.061	-0.6	100	0.00
36 TMP	Dibromomethane	-1.000	0.000	0.0	0	-5.23#
37 TMP	4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP	cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	-1.000	0.000	0.0	0	-6.03#
41 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-6.25#
42 TMP 1,1,2-Trichloroethane	0.020	0.000	100.0#	0	-6.40#
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.020	0.000	100.0#	0	-6.51#
46 TMP Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	-1.000	0.000	0.0	0	-6.85#
48 TMP Chlorobenzene	-1.000	0.035	0.0	0	0.00
49 TMP Ethylbenzene	0.020	0.000	100.0#	0	-7.40#
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.040	0.000	100.0#	0	-7.51#
52 TMP o-Xylene	0.020	0.000	100.0#	0	-7.88#
53 TMP Styrene	-1.000	0.042	0.0	0	0.00
54 TMP Isopropylbenzene	-1.000	0.030	0.0	0	0.00
55 TMP Bromoform	-1.000	0.000	0.0	0	-8.07#
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.636	3.6	100	0.00
58 TMP n-Propylbenzene	-1.000	0.036	0.0	0	0.00
59 TMP Bromobenzene	-1.000	0.034	0.0	0	0.00
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.024	0.0	0	0.00
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.042	0.0	0	0.00
63 TMP 2-Chlorotoluene	-1.000	0.024	0.0	0	0.00
64 TMP 4-Chlorotoluene	-1.000	0.033	0.0	0	0.00
65 TMP tert-Butylbenzene	-1.000	0.015	0.0	0	0.00
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.042	0.0	0	0.00
67 TMP sec-Butylbenzene	-1.000	0.028	0.0	0	0.00
68 TMP p-Isopropyltoluene	-1.000	0.028	0.0	0	0.00
69 TMP 1,3-Dichlorobenzene	-1.000	0.033	0.0	0	0.00
70 TMP 1,4-Dichlorobenzene	-1.000	0.030	0.0	0	0.00
71 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-9.86#
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.047	0.0	0	0.00
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.61#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.000	0.0	0	-11.92#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.271	-2.7	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.000#	100.0#	0#	-1.08#
5 TMP	Chloromethane	0.883	0.000#	100.0#	0#	-1.22#
6 TMP	Vinyl chloride	0.732	0.652	10.9	69	0.00
7 TMP	Bromomethane	0.368	0.000#	100.0#	0#	0.02
8 TMP	Chloroethane	0.336	0.000#	100.0#	0#	-1.59#
9 TMP	Trichlorofluoromethane	0.870	0.000#	100.0#	0#	-1.79#
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.000#	100.0#	0#	-2.26#
12 TMP	1,1-Dichloroethene	0.240	0.000#	100.0#	0#	-2.19#
13 TMP	Hexane	0.434	0.000#	100.0#	0#	0.00
14 TMP	Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP	t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.73#
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.000#	100.0#	0#	-2.83#
17 TMP	trans-1,2-Dichloroethene	0.272	0.000#	100.0#	0#	-2.82#
18 TMP	Diisopropyl ether (DIPE)	0.932	0.000#	100.0#	0#	-3.24#
19 TMP	1,1-Dichloroethane	0.504	0.000#	100.0#	0#	-3.18#
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.000#	100.0#	0#	-3.55#
21 TMP	2,2-Dichloropropane	0.316	0.000#	100.0#	0#	0.07
22 TMP	cis-1,2-Dichloroethene	0.286	0.000#	100.0#	0#	-3.67#
23 TMP	Chloroform	0.477	0.000#	100.0#	0#	0.00
24 TMP	2-Butanone (MEK)	0.183	0.000#	100.0#	0#	-3.70#
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.000#	100.0#	0#	-4.49#
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.000#	100.0#	0#	-4.41#
27 TMP	1,1,1-Trichloroethane	0.440	0.000#	100.0#	0#	-4.08#
28 TMP	1,1-Dichloropropene	0.362	0.000#	100.0#	0#	-4.22#
29 TMP	Carbon tetrachloride	0.367	0.000#	100.0#	0#	-4.21#
30 S	1,2-Dichloroethane-d4	0.060	0.056	6.7	100	0.00
31 TMP	Benzene	0.999	0.000#	100.0#	0#	-4.38#
32 TMP	Trichloroethene	0.316	0.000#	100.0#	0#	-4.93#
33 TMP	1,2-Dichloropropane	0.296	0.000#	100.0#	0#	-5.13#
34 TMP	Bromodichloromethane	0.357	0.000#	100.0#	0#	-5.37#
35 S	Toluene-d8	0.960	0.966	-0.6	100	0.00
36 TMP	Dibromomethane	0.169	0.000#	100.0#	0#	-5.23#
37 TMP	4-Methyl-2-pentanone	0.052	0.000#	100.0#	0#	-5.91#
38 TMP	cis-1,3-Dichloropropene	0.429	0.000#	100.0#	0#	-5.75#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCM511\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.000#	100.0#	0#	-6.03#
41 TMP trans-1,3-Dichloropropene	0.484	0.000#	100.0#	0#	-6.25#
42 TMP 1,1,2-Trichloroethane	0.264	0.000#	100.0#	0#	-6.40#
43 TMP 2-Hexanone	0.335	0.000#	100.0#	0#	-6.64#
44 TMP 1,3-Dichloropropane	0.470	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.342	0.000#	100.0#	0#	-6.51#
46 TMP Dibromochloromethane	0.354	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.000#	100.0#	0#	-6.85#
48 TMP Chlorobenzene	0.925	0.000#	100.0#	0#	0.00
49 TMP Ethylbenzene	1.611	0.000#	100.0#	0#	-7.40#
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.607	0.000#	100.0#	0#	-7.51#
52 TMP o-Xylene	0.595	0.000#	100.0#	0#	-7.88#
53 TMP Styrene	0.973	0.000#	100.0#	0#	0.00
54 TMP Isopropylbenzene	1.564	0.000#	100.0#	0#	0.00
55 TMP Bromoform	0.252	0.000#	100.0#	0#	-8.07#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.814	3.6	100	0.00
58 TMP n-Propylbenzene	3.281	0.000#	100.0#	0#	0.00
59 TMP Bromobenzene	0.770	0.000#	100.0#	0#	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	0.000#	100.0#	0#	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.586	0.000#	100.0#	0#	0.00
63 TMP 2-Chlorotoluene	1.941	0.000#	100.0#	0#	0.00
64 TMP 4-Chlorotoluene	2.281	0.000#	100.0#	0#	0.00
65 TMP tert-Butylbenzene	2.141	0.000#	100.0#	0#	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	0.000#	100.0#	0#	0.00
67 TMP sec-Butylbenzene	3.103	0.000#	100.0#	0#	0.00
68 TMP p-Isopropyltoluene	2.672	0.000#	100.0#	0#	0.00
69 TMP 1,3-Dichlorobenzene	1.434	0.000#	100.0#	0#	0.00
70 TMP 1,4-Dichlorobenzene	1.461	0.000#	100.0#	0#	0.00
71 TMP 1,2-Dichlorobenzene	1.380	0.000#	100.0#	0#	-9.86#
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.000#	100.0#	0#	0.00
74 TMP Hexachlorobutadiene	0.542	0.000#	100.0#	0#	-11.61#
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.000#	100.0#	0#	-11.92#



Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	49049	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	38410	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	21826	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	13293	10.272	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	102.70%	
30) 1,2-Dichloroethane-d4	4.36	102	2724	9.205	ppb	0.00
Spiked Amount	10.000	Range 79 - 128	Recovery	=	92.10%	
35) Toluene-d8	5.98	98	47379	10.061	ppb	0.00
Spiked Amount	10.000	Range 84 - 121	Recovery	=	100.60%	
57) 4-Bromofluorobenzene	8.38	95	17756	9.636	ppb	0.00
Spiked Amount	10.000	Range 84 - 116	Recovery	=	96.40%	
<b>Target Compounds</b>						
						Qvalue
2) Ethanol	0.00		0			N.D.
4) Dichlorodifluoromethane	0.00		0			N.D.
5) Chloromethane	0.00		0			N.D.
6] Vinyl chloride	1.30	62	64m	0.018	ppb	
7) Bromomethane	1.56	94	127			N.D.
8) Chloroethane	0.00		0			N.D.
9) Trichlorofluoromethane	0.00		0			N.D.
10) 2-Propanol	2.40	45	215			No Calib
11) Acetone	0.00		0			N.D.
12) 1,1-Dichloroethene	0.00		0			N.D.
13) Hexane	3.05	57	99			N.D.
14) Methylene chloride	0.00		0			N.D. d
15) t-Butyl alcohol (TBA)	0.00		0			N.D.
16) Methyl t-butyl ether (...)	0.00		0			N.D. d
17) trans-1,2-Dichloroethene	0.00		0			N.D.
18) Diisopropyl ether (DIPE)	0.00		0			N.D.
19) 1,1-Dichloroethane	0.00		0			N.D. d
20) Ethyl t-butyl ether (E...)	0.00		0			N.D.
21) 2,2-Dichloropropane	3.73	77	52			N.D.
22) cis-1,2-Dichloroethene	0.00		0			N.D.
23) Chloroform	3.94	83	68			N.D.
24) 2-Butanone (MEK)	0.00		0			N.D. d
25) t-Amyl methyl ether (T...)	0.00		0			N.D.
26) 1,2-Dichloroethane (EDC)	0.00		0			N.D. d
27) 1,1,1-Trichloroethane	0.00		0			N.D.
28) 1,1-Dichloropropene	0.00		0			N.D.
29) Carbon tetrachloride	0.00		0			N.D.

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121228.D  
 Acq On : 12 Dec 2022 10:36 pm  
 Operator : LM  
 Sample : 0.02 ppb 8260 ICAL 68-25F  
 Misc : soil/water  
 ALS Vial : 6 Sample Multiplier: 1  
 InstName : GCMS11

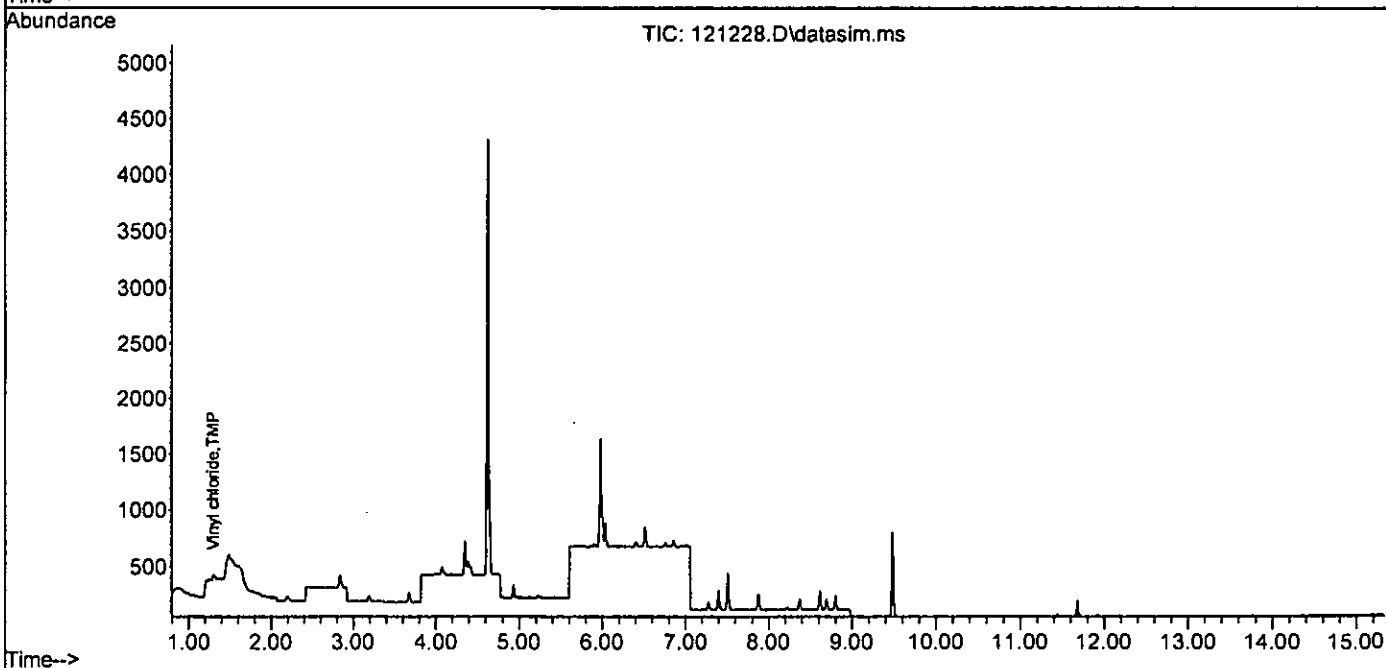
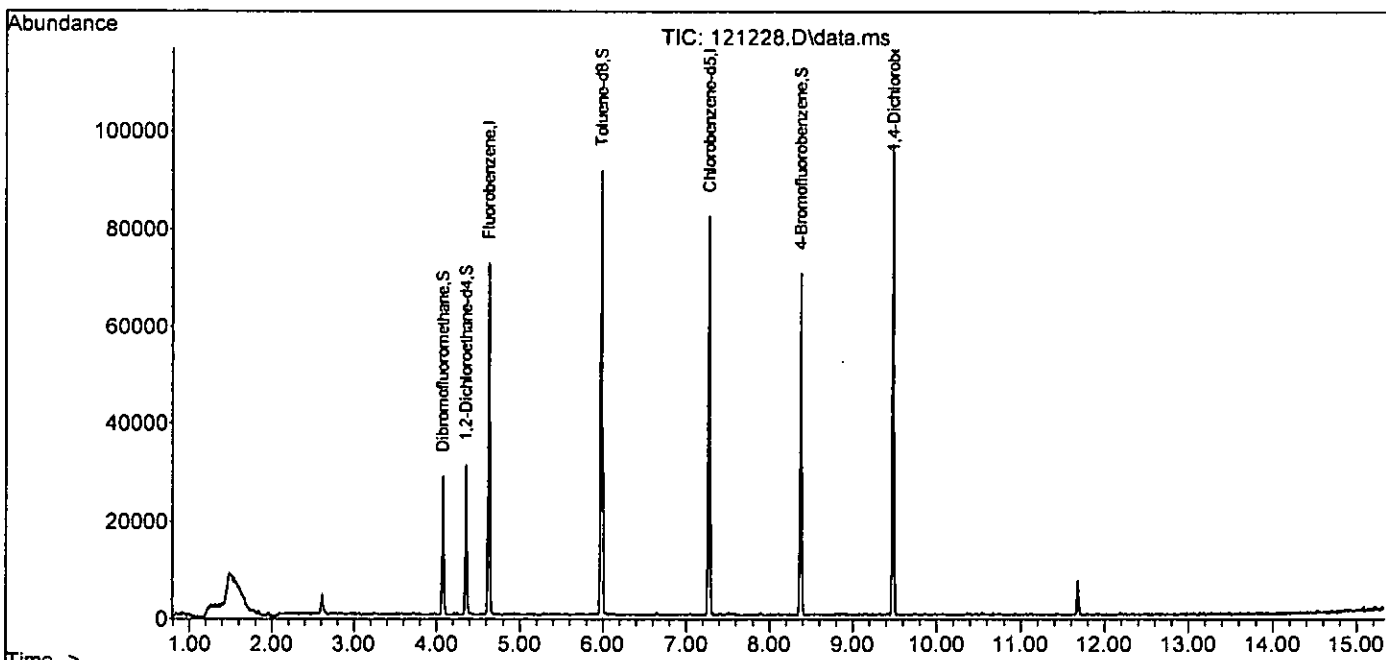
Quant Time: Dec 15 11:21:34 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzene	0.00		0	N.D.	d	
32) Trichloroethene	0.00		0	N.D.		
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	0.00		0	N.D.		
40) Toluene	0.00		0	N.D.	d	
41) trans-1,3-Dichloropropene	0.00		0	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.		
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.		
45) Tetrachloroethene	0.00		0	N.D.	d	
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.		
48) Chlorobenzene	7.29	112	123	N.D.		
49) Ethylbenzene	0.00		0	N.D.	d	
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51) m,p-Xylene	0.00		0	N.D.	d	
52) o-Xylene	0.00		0	N.D.	d	
53) Styrene	7.90	104	157	N.D.		
54) Isopropylbenzene	8.23	105	181	N.D.		
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	8.62	91	259	N.D.		
59) Bromobenzene	8.52	156	58	N.D.		
60) 1,3,5-Trimethylbenzene	8.80	105	129	N.D.		
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	8.57	75	54	N.D.		
63) 2-Chlorotoluene	8.69	91	101	N.D.		
64) 4-Chlorotoluene	8.81	91	164	N.D.		
65) tert-Butylbenzene	9.11	119	69	N.D.		
66) 1,2,4-Trimethylbenzene	9.15	105	225	N.D.		
67) sec-Butylbenzene	9.32	105	193	N.D.		
68) p-Isopropyltoluene	9.46	119	165	N.D.		
69) 1,3-Dichlorobenzene	9.41	146	103	N.D.		
70) 1,4-Dichlorobenzene	9.50	146	96	N.D.		
71) 1,2-Dichlorobenzene	0.00		0	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	11.44	180	100	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121228.D  
Acq On : 12 Dec 2022 10:36 pm  
Operator : LM  
Sample : 0.02 ppb 8260 ICAL 68-25F  
Misc : soil/water  
ALS Vial : 6 Sample Multiplier: 1  
InstName : GCMS11

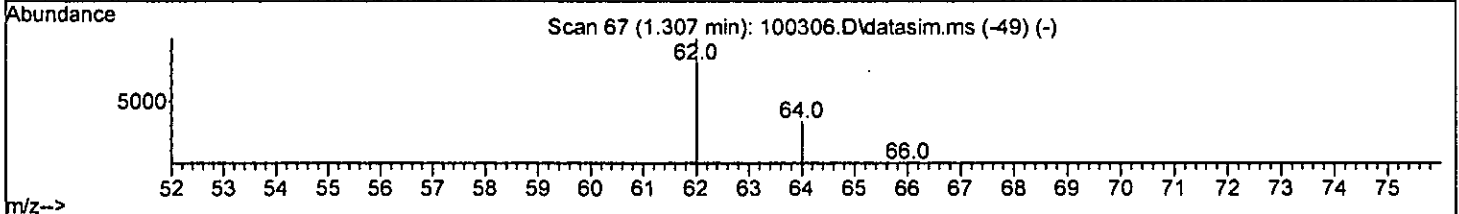
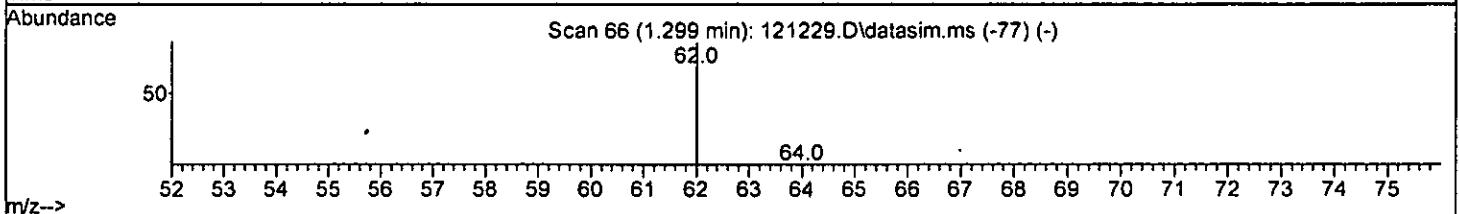
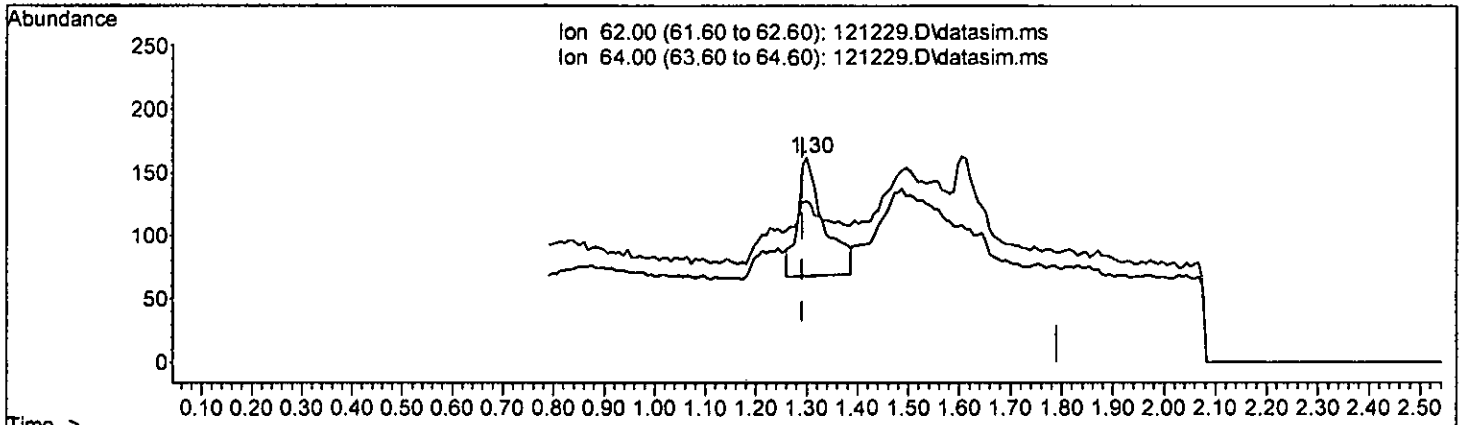
Quant Time: Dec 15 11:21:34 2022  
Quant Method : D:\Methods\Inst11\VB121222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Tue Dec 13 13:28:26 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121229.D\data.ms

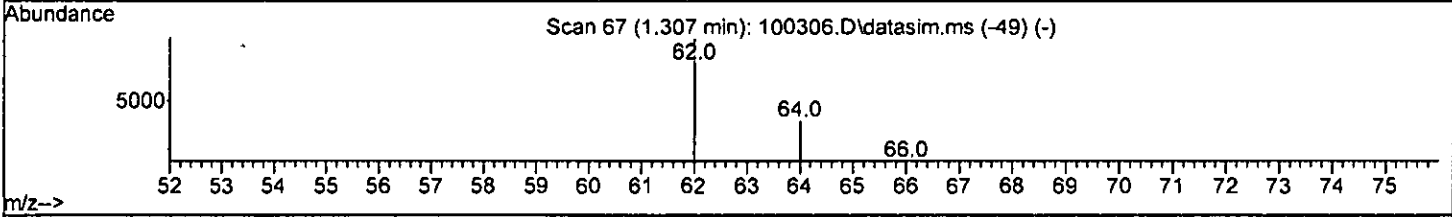
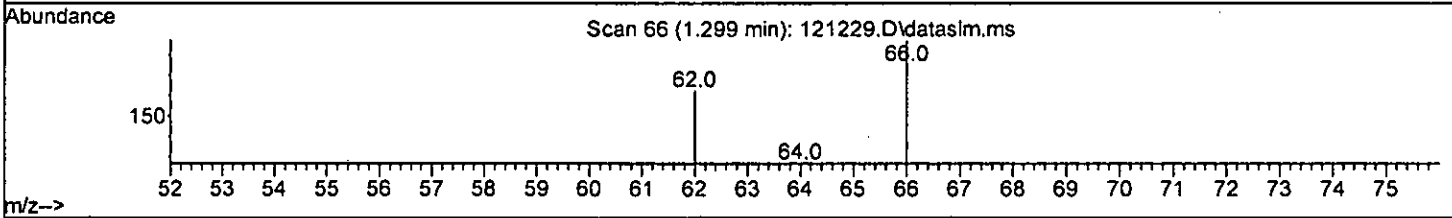
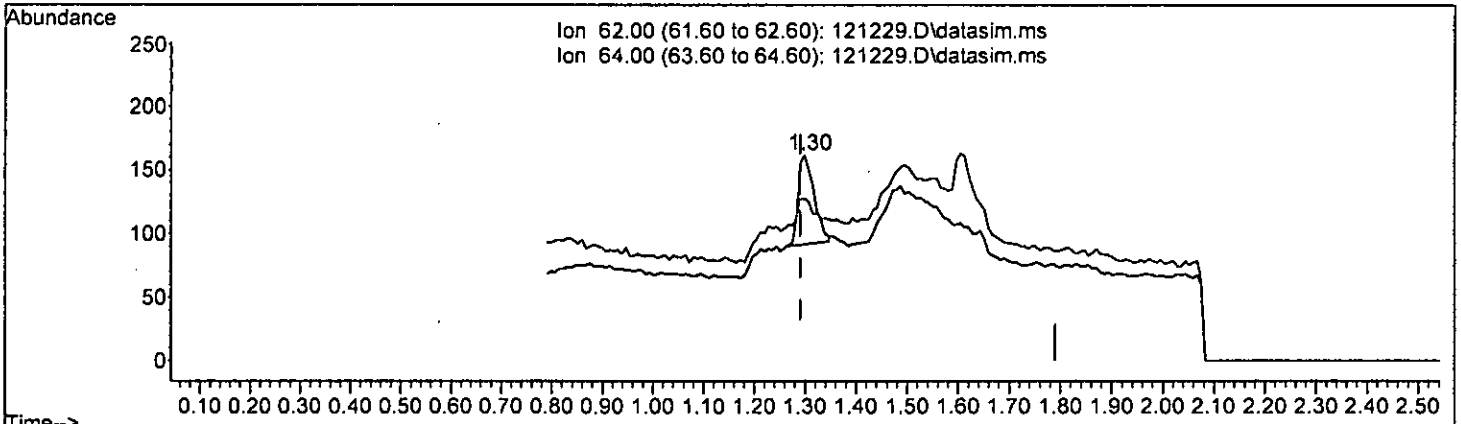
(6) Vinyl chloride (TMP)			
1.299min (+ 0.007) 0.095 ppb			
response	335		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	31.51	
0.00	0.00	0.00	
0.00	0.00	0.00	

*M/S LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121229.D\data.ms

(6) Vinyl chloride (TMP)			
1.299min (+ 0.007) 0.042 ppb m			
response	150		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	78.40#	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: 12/15 LM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.03
3 S Dibromofluoromethane	10.000	10.659	-6.6	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.037	0.0	0	0.00
5 TMP Chloromethane	-1.000	0.158	0.0	0	0.02
6 TMP Vinyl chloride	0.040	0.042	-5.0	102	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP Trichlorofluoromethane	-1.000	0.041	0.0	0	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	-1.000	0.000	0.0	0	-2.26#
12 TMP 1,1-Dichloroethene	0.040	0.000	100.0#	0	-2.19#
13 TMP Hexane	-1.000	0.073	0.0	0	0.02
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.040	0.000	100.0#	0	-2.83#
17 TMP trans-1,2-Dichloroethene	0.040	0.000	100.0#	0	-2.82#
18 TMP Diisopropyl ether (DIPE)	-1.000	0.046	0.0	0	0.00
19 TMP 1,1-Dichloroethane	0.040	0.000	100.0#	0	-3.18#
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP 2,2-Dichloropropane	-1.000	0.000	0.0	0	-3.66#
22 TMP cis-1,2-Dichloroethene	0.040	0.000	100.0#	0	-3.67#
23 TMP Chloroform	-1.000	0.081	0.0	0	0.00
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.70#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.040	0.0	0	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.040	0.000	100.0#	0	-4.41#
27 TMP 1,1,1-Trichloroethane	0.040	0.000	100.0#	0	-4.08#
28 TMP 1,1-Dichloropropene	-1.000	0.000	0.0	0	-4.22#
29 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-4.21#
30 S 1,2-Dichloroethane-d4	10.000	10.305	-3.0	100	0.00
31 TMP Benzene	0.040	0.000	100.0#	0	-4.38#
32 TMP Trichloroethene	0.040	0.000	100.0#	0	-4.93#
33 TMP 1,2-Dichloropropane	-1.000	0.000	0.0	0	-5.13#
34 TMP Bromodichloromethane	-1.000	0.082	0.0	0	0.00
35 S Toluene-d8	10.000	10.150	-1.5	100	0.00
36 TMP Dibromomethane	-1.000	0.000	0.0	0	-5.23#
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP cis-1,3-Dichloropropene	-1.000	0.075	0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 200% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.040	0.000	100.0#	0	-6.03#
41 TMP trans-1,3-Dichloropropene	-1.000	0.053	0.0	0	0.01
42 TMP 1,1,2-Trichloroethane	0.040	0.071	-77.5#	0	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#
44 TMP 1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP Tetrachloroethene	0.040	0.000	100.0#	0	-6.51#
46 TMP Dibromochloromethane	-1.000	0.084	0.0	0	0.01
47 TMP 1,2-Dibromoethane (EDB)	-1.000	0.000	0.0	0	-6.85#
48 TMP Chlorobenzene	-1.000	0.074	0.0	0	0.00
49 TMP Ethylbenzene	0.040	0.000	100.0#	0	-7.40#
50 TMP 1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP m,p-Xylene	0.080	0.000	100.0#	0	-7.51#
52 TMP o-Xylene	0.040	0.000	100.0#	0	-7.88#
53 TMP Styrene	-1.000	0.000	0.0	0	-7.90#
54 TMP Isopropylbenzene	-1.000	0.093	0.0	0	0.00
55 TMP Bromoform	-1.000	0.057	0.0	0	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.043	-0.4	100	0.00
58 TMP n-Propylbenzene	-1.000	0.085	0.0	0	0.00
59 TMP Bromobenzene	-1.000	0.059	0.0	0	0.00
60 TMP 1,3,5-Trimethylbenzene	-1.000	0.076	0.0	0	0.00
61 TMP 1,1,2,2-Tetrachloroethane	-1.000	0.000	0.0	0	-8.53#
62 TMP 1,2,3-Trichloropropane	-1.000	0.053	0.0	0	0.00
63 TMP 2-Chlorotoluene	-1.000	0.088	0.0	0	0.00
64 TMP 4-Chlorotoluene	-1.000	0.080	0.0	0	0.00
65 TMP tert-Butylbenzene	-1.000	0.064	0.0	0	0.00
66 TMP 1,2,4-Trimethylbenzene	-1.000	0.093	0.0	0	0.00
67 TMP sec-Butylbenzene	-1.000	0.078	0.0	0	0.00
68 TMP p-Isopropyltoluene	-1.000	0.078	0.0	0	0.00
69 TMP 1,3-Dichlorobenzene	-1.000	0.091	0.0	0	0.08
70 TMP 1,4-Dichlorobenzene	-1.000	0.089	0.0	0	0.00
71 TMP 1,2-Dichlorobenzene	-1.000	0.088	0.0	0	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	-1.000	0.088	0.0	0	0.00
74 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-11.61#
75 TMP Naphthalene	-1.000	0.000	0.0	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	-1.000	0.084	0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.03
3 S Dibromofluoromethane	0.264	0.281	-6.4	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.000#	100.0#	0#	0.00
5 TMP Chloromethane	0.883	0.000#	100.0#	0#	0.02
6 TMP Vinyl chloride	0.732	0.777	-6.1	102	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP Chloroethane	0.336	0.000#	100.0#	0#	-1.59#
9 TMP Trichlorofluoromethane	0.870	0.000#	100.0#	0#	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.000#	100.0#	0#	-2.26#
12 TMP 1,1-Dichloroethene	0.240	0.000#	100.0#	0#	-2.19#
13 TMP Hexane	0.434	0.000#	100.0#	0#	0.02
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.000#	100.0#	0#	-2.83#
17 TMP trans-1,2-Dichloroethene	0.272	0.000#	100.0#	0#	-2.82#
18 TMP Diisopropyl ether (DIPE)	0.932	0.000#	100.0#	0#	0.00
19 TMP 1,1-Dichloroethane	0.504	0.000#	100.0#	0#	-3.18#
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.000#	100.0#	0#	-3.55#
21 TMP 2,2-Dichloropropane	0.316	0.000#	100.0#	0#	-3.66#
22 TMP cis-1,2-Dichloroethene	0.286	0.000#	100.0#	0#	-3.67#
23 TMP Chloroform	0.477	0.000#	100.0#	0#	0.00
24 TMP 2-Butanone (MEK)	0.183	0.000#	100.0#	0#	-3.70#
25 TMP t-Amyl methyl ether (TAME)	0.694	0.000#	100.0#	0#	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.000#	100.0#	0#	-4.41#
27 TMP 1,1,1-Trichloroethane	0.440	0.000#	100.0#	0#	-4.08#
28 TMP 1,1-Dichloropropene	0.362	0.000#	100.0#	0#	-4.22#
29 TMP Carbon tetrachloride	0.367	0.000#	100.0#	0#	-4.21#
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.999	0.000#	100.0#	0#	-4.38#
32 TMP Trichloroethene	0.316	0.000#	100.0#	0#	-4.93#
33 TMP 1,2-Dichloropropane	0.296	0.000#	100.0#	0#	-5.13#
34 TMP Bromodichloromethane	0.357	0.000#	100.0#	0#	0.00
35 S Toluene-d8	0.960	0.975	-1.6	100	0.00
36 TMP Dibromomethane	0.169	0.000#	100.0#	0#	-5.23#
37 TMP 4-Methyl-2-pentanone	0.052	0.000#	100.0#	0#	-5.91#
38 TMP cis-1,3-Dichloropropene	0.429	0.000#	100.0#	0#	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.000#	100.0#	0#	-6.03#
41 TMP trans-1,3-Dichloropropene	0.484	0.000#	100.0#	0#	0.01
42 TMP 1,1,2-Trichloroethane	0.264	0.466	-76.5#	0#	0.00
43 TMP 2-Hexanone	0.335	0.000#	100.0#	0#	-6.64#
44 TMP 1,3-Dichloropropane	0.470	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.342	0.000#	100.0#	0#	-6.51#
46 TMP Dibromochloromethane	0.354	0.000#	100.0#	0#	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.000#	100.0#	0#	-6.85#
48 TMP Chlorobenzene	0.925	0.000#	100.0#	0#	0.00
49 TMP Ethylbenzene	1.611	0.000#	100.0#	0#	-7.40#
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.607	0.000#	100.0#	0#	-7.51#
52 TMP o-Xylene	0.595	0.000#	100.0#	0#	-7.88#
53 TMP Styrene	0.973	0.000#	100.0#	0#	-7.90#
54 TMP Isopropylbenzene	1.564	0.000#	100.0#	0#	0.00
55 TMP Bromoform	0.252	0.000#	100.0#	0#	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.848	-0.5	100	0.00
58 TMP n-Propylbenzene	3.281	0.000#	100.0#	0#	0.00
59 TMP Bromobenzene	0.770	0.000#	100.0#	0#	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	0.000#	100.0#	0#	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.000#	100.0#	0#	-8.53#
62 TMP 1,2,3-Trichloropropane	0.586	0.000#	100.0#	0#	0.00
63 TMP 2-Chlorotoluene	1.941	0.000#	100.0#	0#	0.00
64 TMP 4-Chlorotoluene	2.281	0.000#	100.0#	0#	0.00
65 TMP tert-Butylbenzene	2.141	0.000#	100.0#	0#	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	0.000#	100.0#	0#	0.00
67 TMP sec-Butylbenzene	3.103	0.000#	100.0#	0#	0.00
68 TMP p-Isopropyltoluene	2.672	0.000#	100.0#	0#	0.00
69 TMP 1,3-Dichlorobenzene	1.434	0.000#	100.0#	0#	0.08
70 TMP 1,4-Dichlorobenzene	1.461	0.000#	100.0#	0#	0.00
71 TMP 1,2-Dichlorobenzene	1.380	0.000#	100.0#	0#	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.000#	100.0#	0#	0.00
74 TMP Hexachlorobutadiene	0.542	0.000#	100.0#	0#	-11.61#
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.000#	100.0#	0#	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	48253	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38658	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21365	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	13570	10.659	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	106.60%	
30) 1,2-Dichloroethane-d4	4.36	102	3000	10.305	ppb	0.00	
Spiked Amount	10.000	Range	79 - 128	Recovery	=	103.10%	
35) Toluene-d8	5.98	98	47024	10.150	ppb	0.00	
Spiked Amount	10.000	Range	84 - 121	Recovery	=	101.50%	
57) 4-Bromofluorobenzene	8.38	95	18115	10.043	ppb	0.00	
Spiked Amount	10.000	Range	84 - 116	Recovery	=	100.40%	
<b>Target Compounds</b>							
2) Ethanol	1.89	45	109	No Calib			Qvalue
4) Dichlorodifluoromethane	1.09	85	122	N.D.			
5) Chloromethane	1.23	50	674	N.D.			
6) Vinyl chloride	1.30	62	150m	0.042	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	1.79	101	172	N.D.			
10) 2-Propanol	2.40	45	256	No Calib			
11) Acetone	0.00		0	N.D.			
12) 1,1-Dichloroethene	0.00		0	N.D.	d		
13) Hexane	3.06	57	153	N.D.			
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.	d		
17) trans-1,2-Dichloroethene	0.00		0	N.D.	d		
18) Diisopropyl ether (DIPE)	3.25	45	209	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.	d		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22) cis-1,2-Dichloroethene	0.00		0	N.D.	d		
23) Chloroform	3.95	83	187	N.D.			
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.50	73	133	N.D.			
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d		
27) 1,1,1-Trichloroethane	0.00		0	N.D.	d		
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			

## Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121229.D  
 Acq On : 12 Dec 2022 10:59 pm  
 Operator : LM  
 Sample : 0.04 ppb 8260 ICAL 68-25G  
 Misc : soil/water  
 ALS Vial : 7 Sample Multiplier: 1  
 InstName : GCMS11

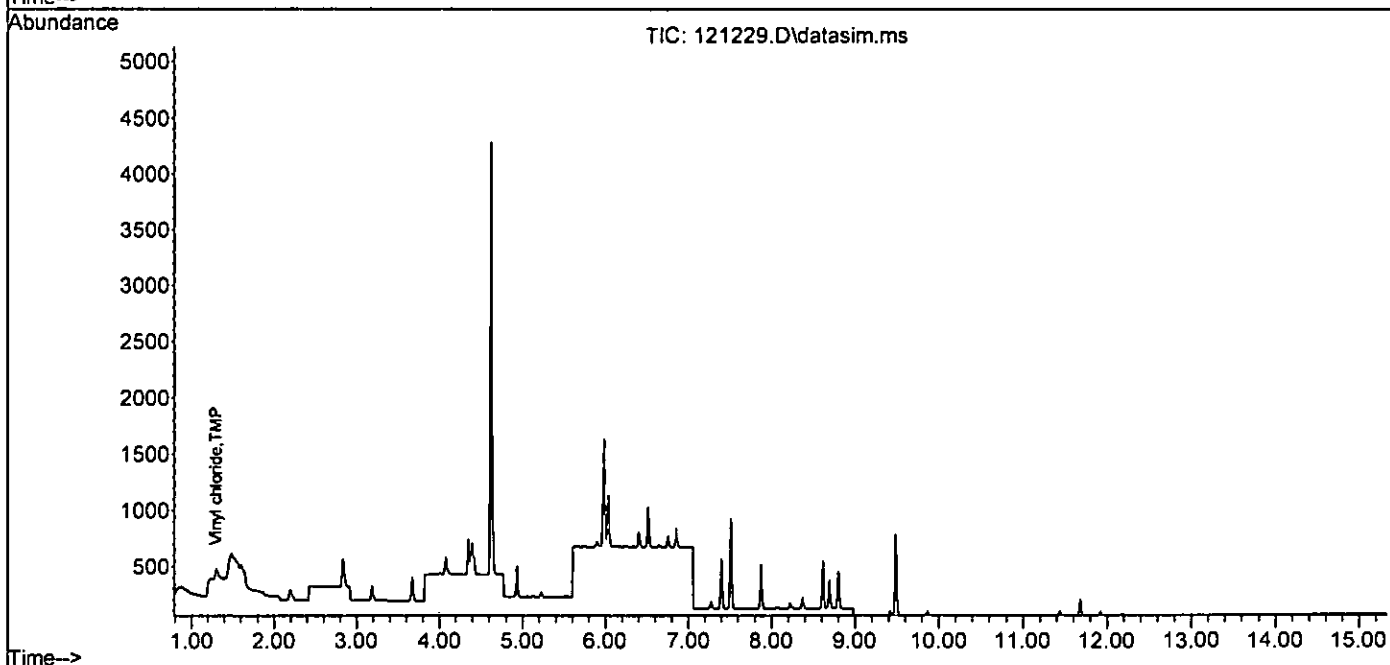
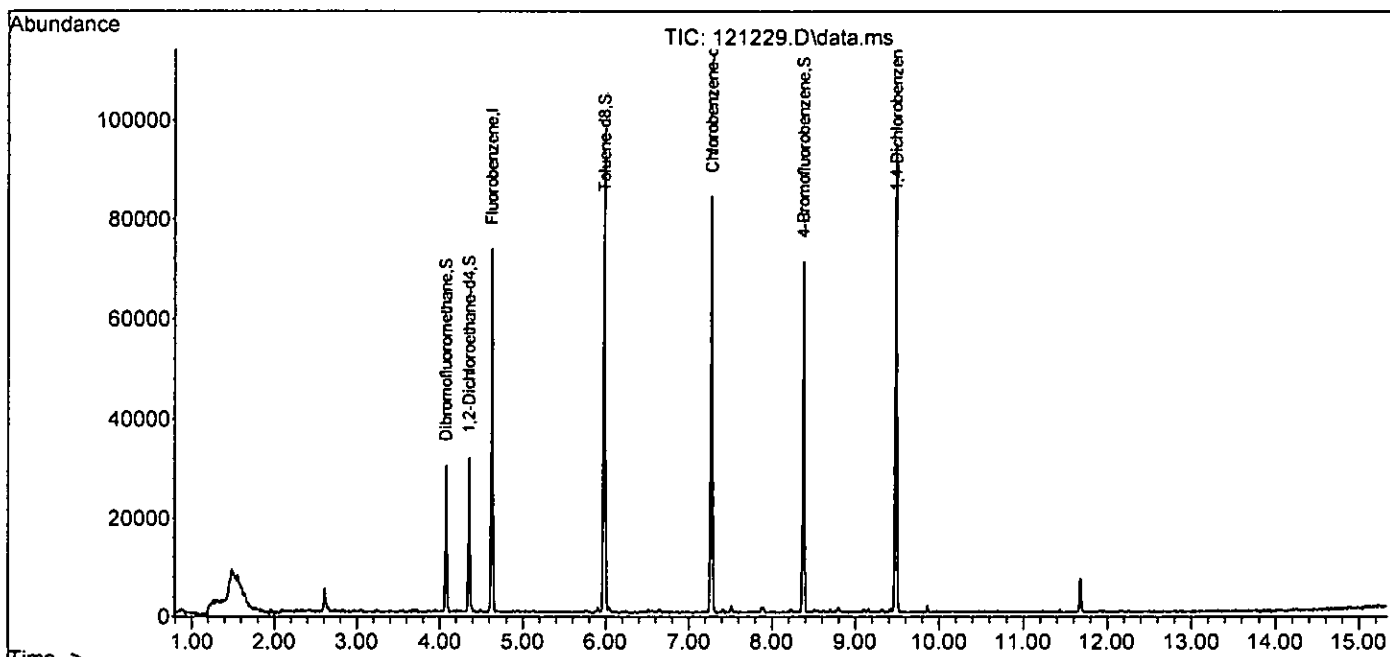
Quant Time: Dec 15 11:21:37 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzene	0.00		0	N.D.	d	
32) Trichloroethene	0.00		0	N.D.	d	
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	5.37	83	141	N.D.		
36) Dibromomethane	0.00		0	N.D.		
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	5.75	75	155	N.D.		
40) Toluene	0.00		0	N.D.	d	
41) trans-1,3-Dichloropropene	6.26	75	99	N.D.		
42) 1,1,2-Trichloroethane	6.40	83	72	N.D.		
43) 2-Hexanone	0.00		0	N.D.	d	
44) 1,3-Dichloropropane	0.00		0	N.D.	d	
45) Tetrachloroethene	0.00		0	N.D.	d	
46) Dibromochloromethane	6.76	129	115	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	d	
48) Chlorobenzene	7.29	112	263	N.D.		
49) Ethylbenzene	0.00		0	N.D.	d	
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51) m,p-Xylene	0.00		0	N.D.	d	
52) o-Xylene	0.00		0	N.D.	d	
53) Styrene	0.00		0	N.D.	d	
54) Isopropylbenzene	8.23	105	561	N.D.		
55) Bromoform	8.07	173	56	N.D.		
58) n-Propylbenzene	8.62	91	594	N.D.		
59) Bromobenzene	8.52	156	97	N.D.		
60) 1,3,5-Trimethylbenzene	8.80	105	399	N.D.		
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	8.58	75	66	N.D.		
63) 2-Chlorotoluene	8.70	91	365	N.D.		
64) 4-Chlorotoluene	8.81	91	389	N.D.		
65) tert-Butylbenzene	9.10	119	295	N.D.		
66) 1,2,4-Trimethylbenzene	9.15	105	492	N.D.		
67) sec-Butylbenzene	9.32	105	519	N.D.		
68) p-Isopropyltoluene	9.46	119	448	N.D.		
69) 1,3-Dichlorobenzene	9.50	146	278	N.D.		
70) 1,4-Dichlorobenzene	9.50	146	278	N.D.		
71) 1,2-Dichlorobenzene	9.87	146	258	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	11.44	180	184	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	11.91	180	162	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121229.D  
Acq On : 12 Dec 2022 10:59 pm  
Operator : LM  
Sample : 0.04 ppb 8260 ICAL 68-25G  
Misc : soil/water  
ALS Vial : 7 Sample Multiplier: 1  
InstName : GCMS11

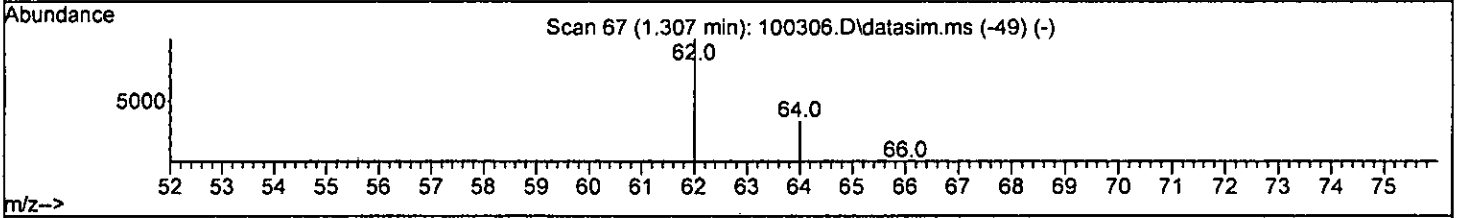
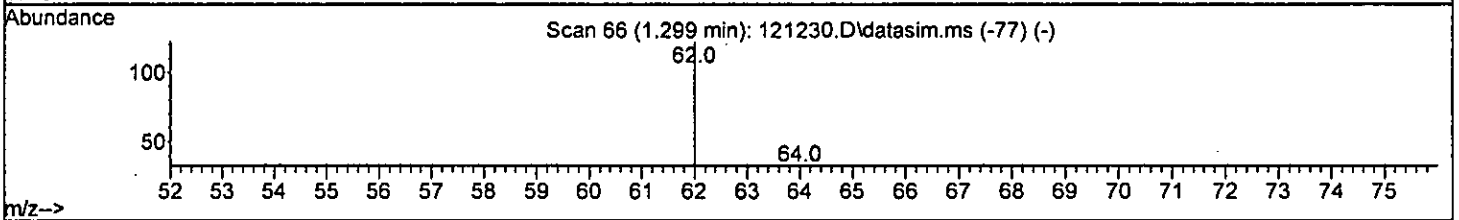
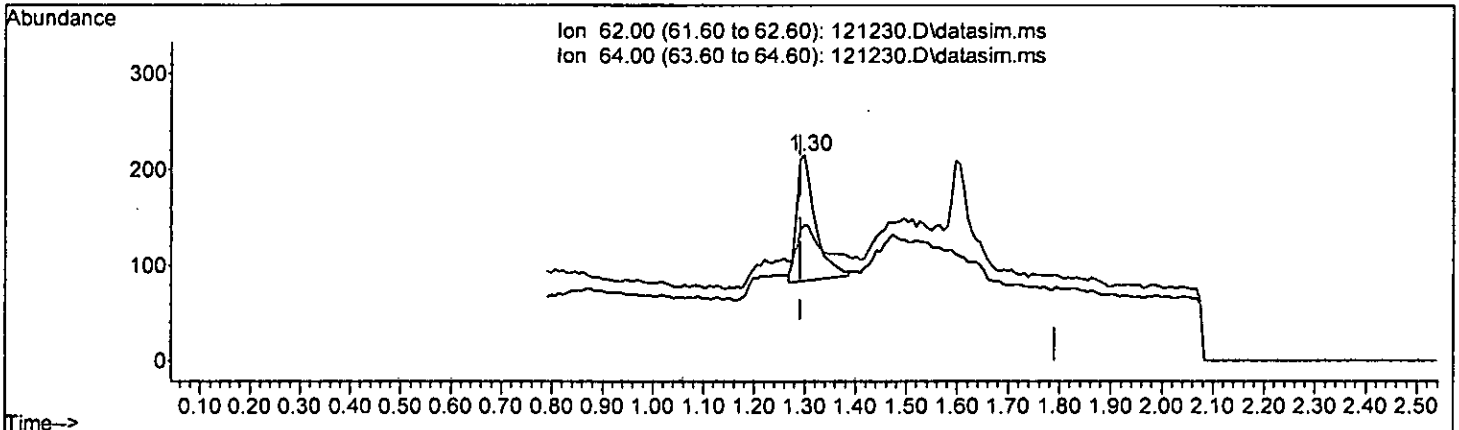
Quant Time: Dec 15 11:21:37 2022  
Quant Method : D:\Methods\Inst11\VB121222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Tue Dec 13 13:28:26 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(6) Vinyl chloride (TMP)  
 1.299min (+ 0.007) 0.091 ppb  
 response 331

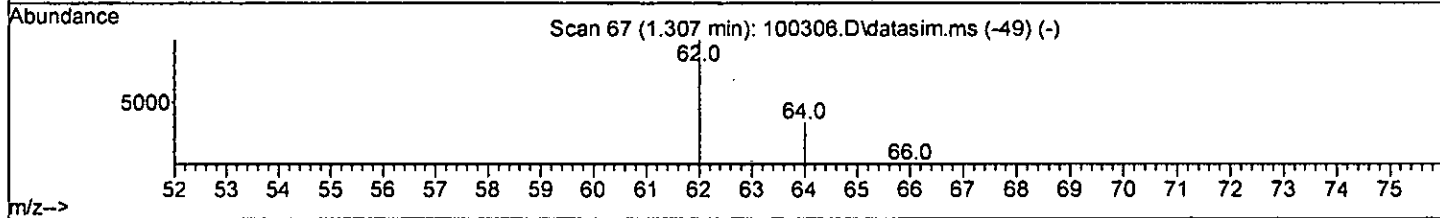
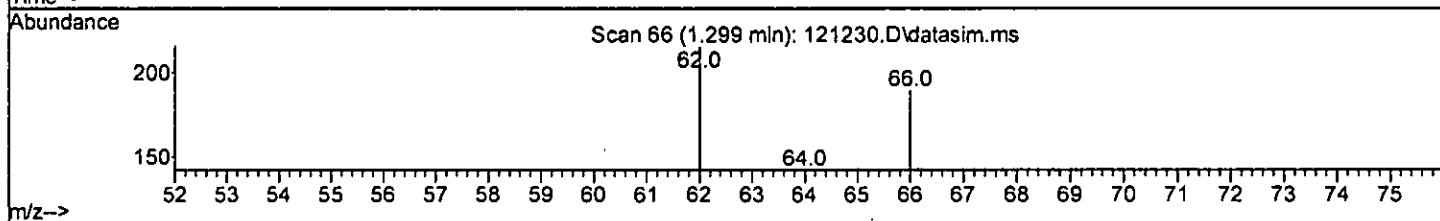
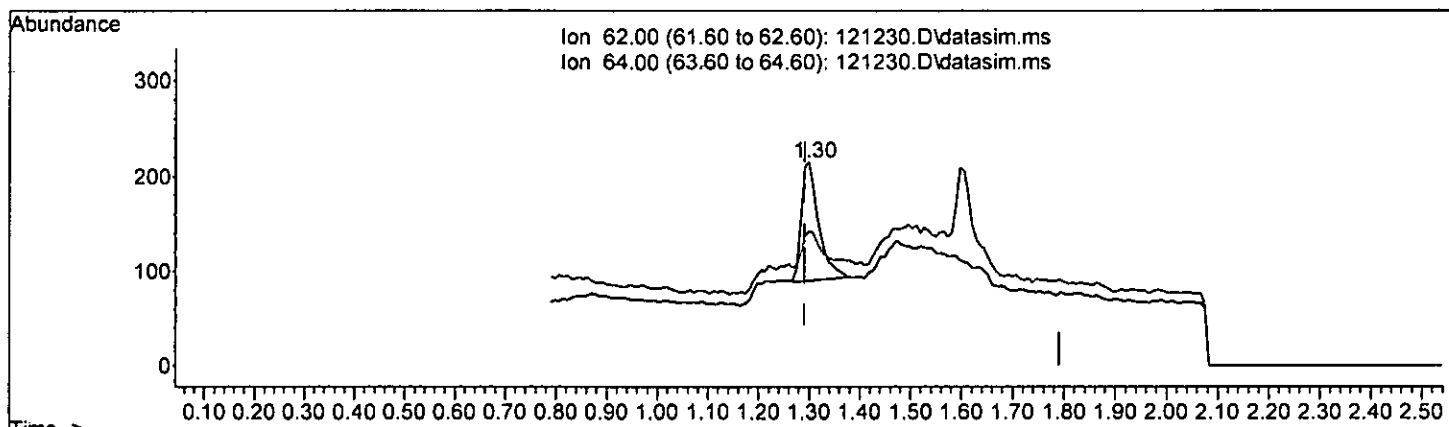
Ion	Expt%	Act%
62.00	100.00	100.00
64.00	28.80	30.16
0.00	0.00	0.00
0.00	0.00	0.00

*LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(6) Vinyl chloride (TMP)  
 1.299min (+ 0.007) 0.081 ppb m

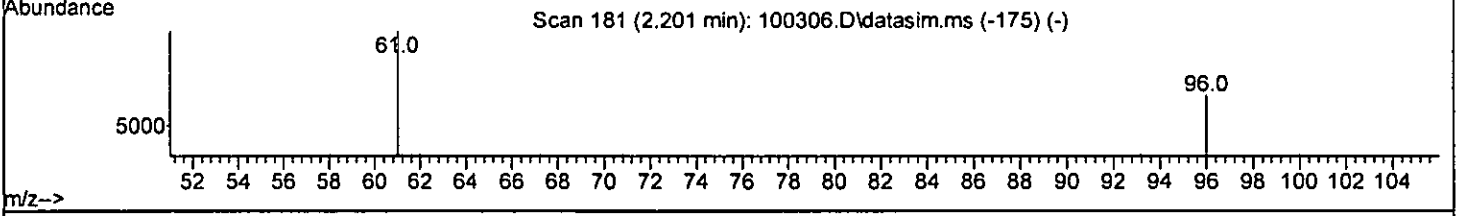
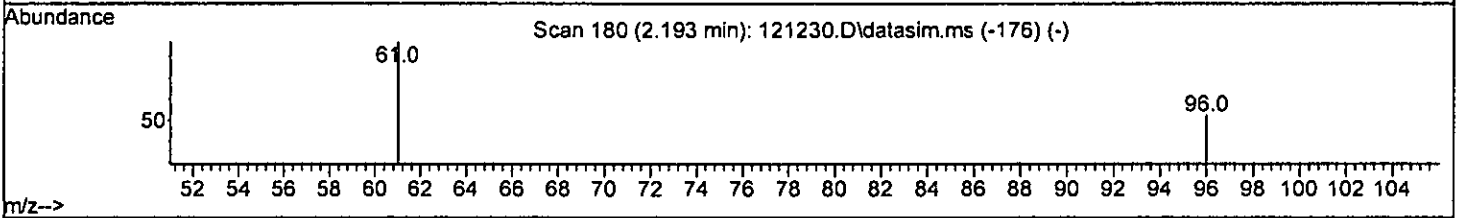
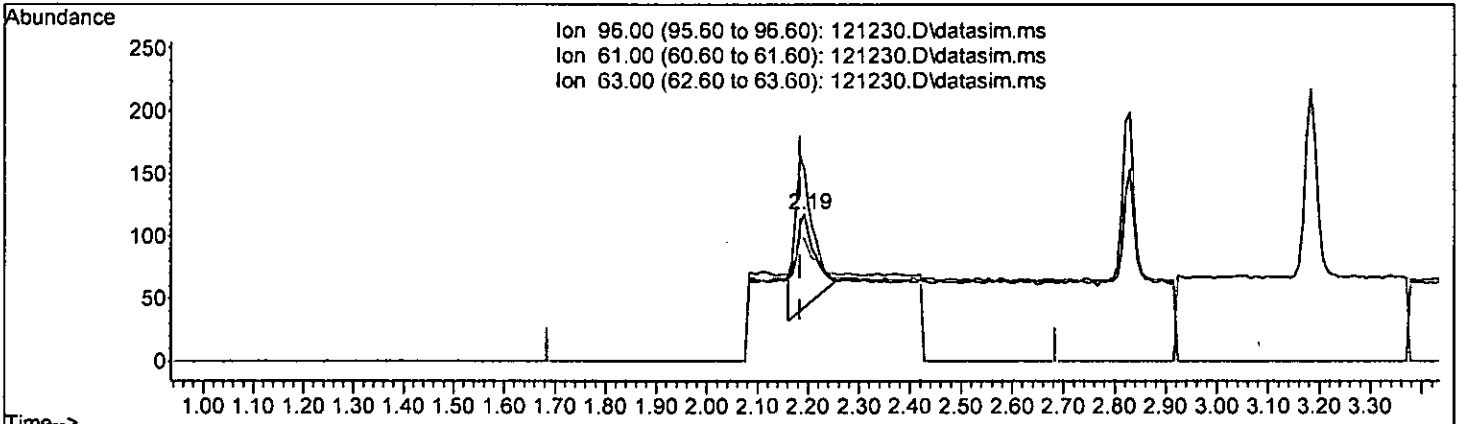
response	294		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	66.05#	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(12) 1,1-Dichloroethane (TMP)  
 2.193min (+ 0.008) 0.166 ppb

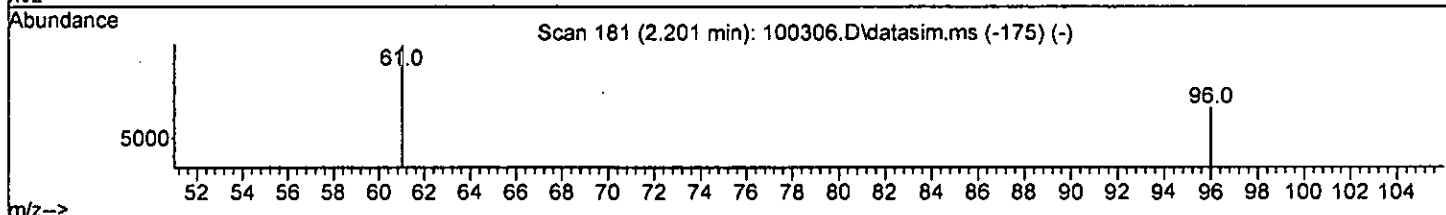
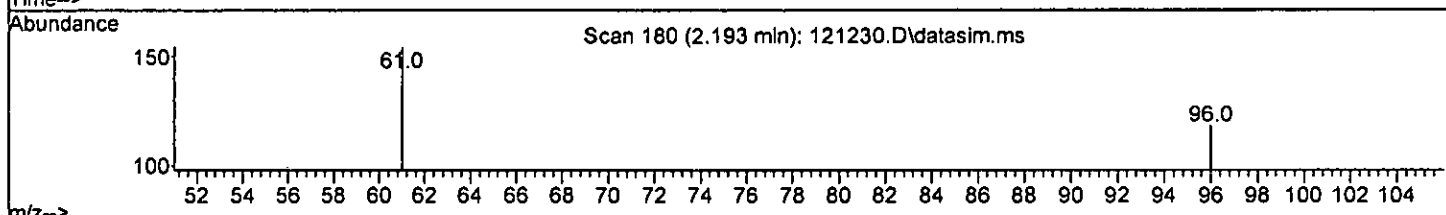
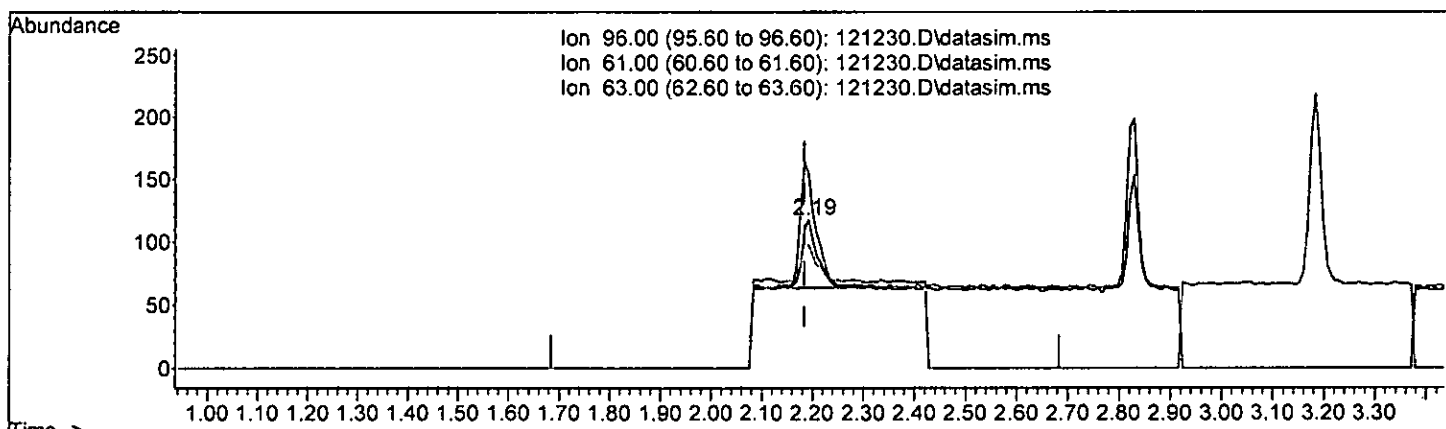
response	199		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	160.00	162.96	
63.00	53.70	53.70	
0.00	0.00	0.00	

*Handwritten note: 12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(12) 1,1-Dichloroethene (TMP)  
 2.193min (+ 0.008) 0.090 ppb m

response	108		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	160.00	130.51	
63.00	53.70	83.05	
0.00	0.00	0.00	

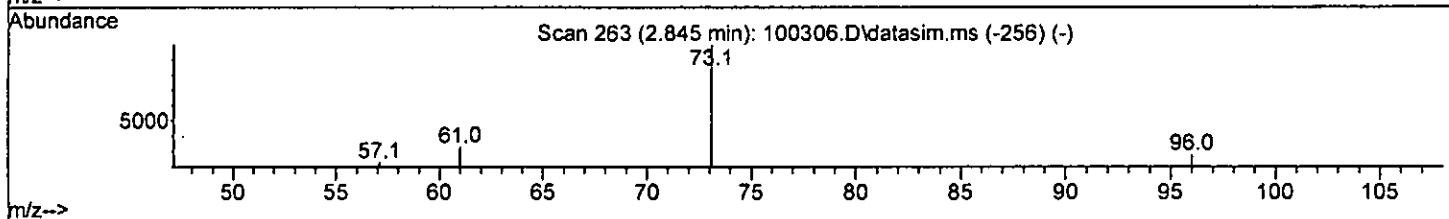
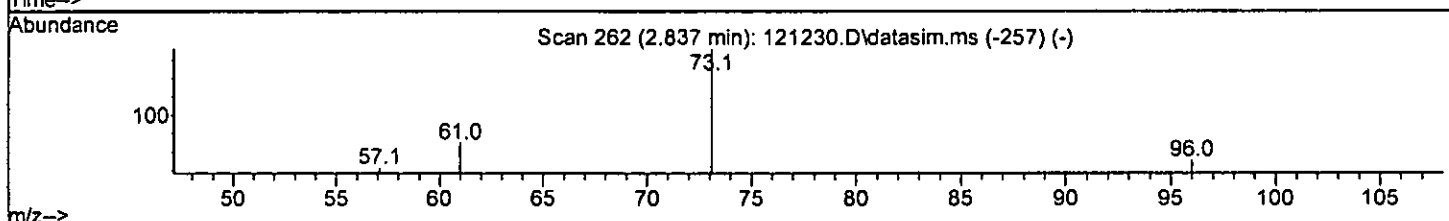
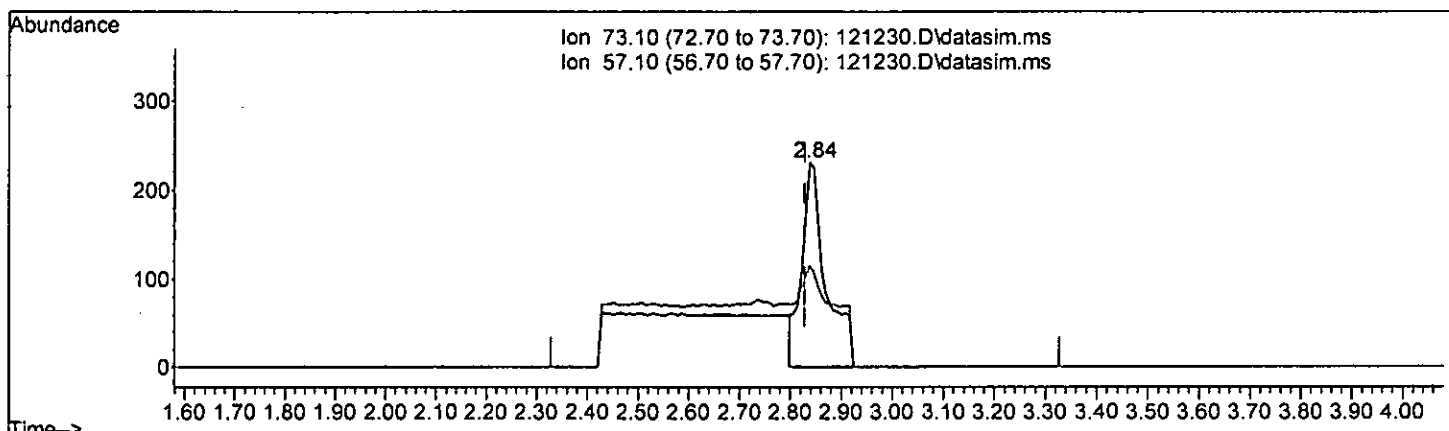
*12/15 LM*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (+ 0.008) 0.207 ppb

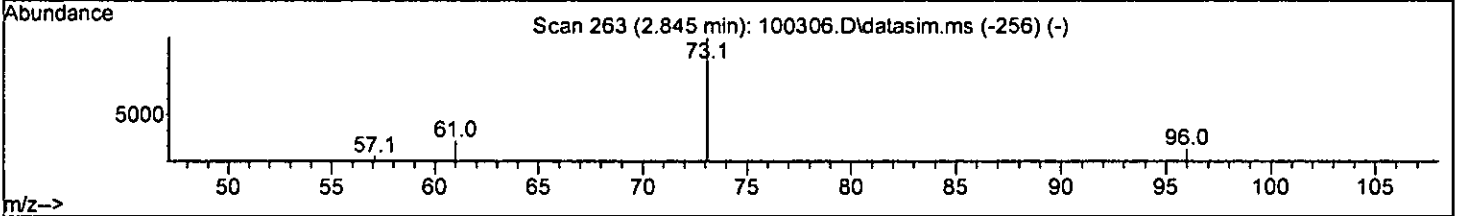
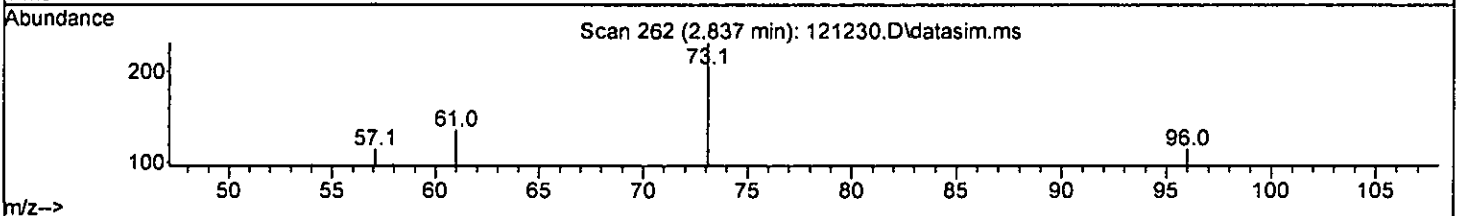
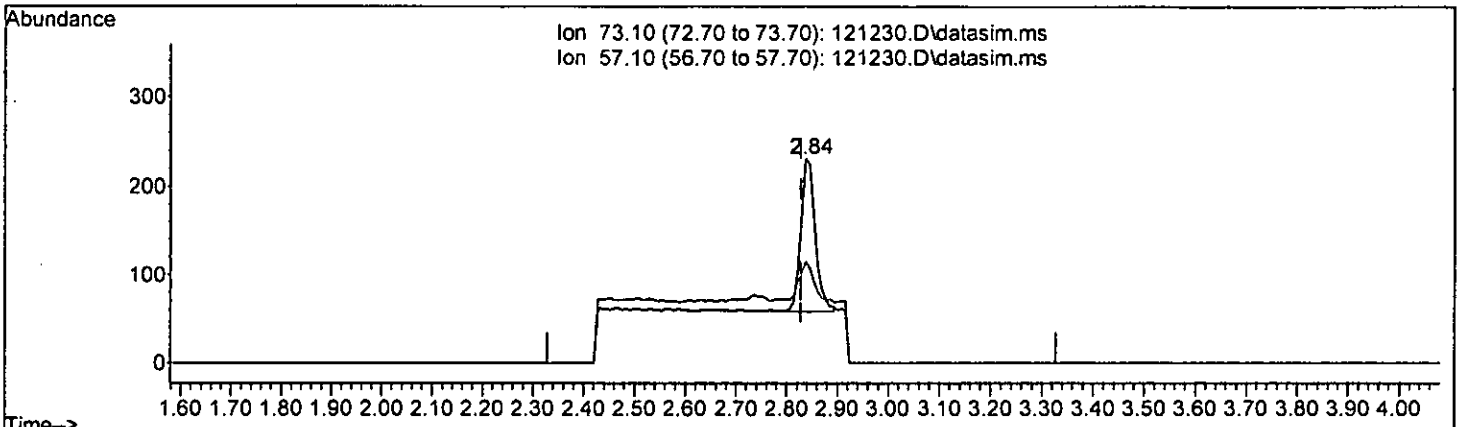
response	756	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	24.80	49.35
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121230.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (+ 0.008) 0.094 ppb m

response	342
Ion	Exp% Act%
73.10	100.00 100.00
57.10	24.80 49.35
0.00	0.00 0.00
0.00	0.00 0.00

*LM 12/15*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.653	3.5	100	0.00
4 TMP Dichlorodifluoromethane	-1.000	0.102	0.0	0	0.02
5 TMP Chloromethane	-1.000	0.209	0.0	0	0.00
6 TMP Vinyl chloride	0.100	0.081	19.0	94	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP Trichlorofluoromethane	-1.000	0.057	0.0	0	-0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	-1.000	0.394	0.0	0	0.00
12 TMP 1,1-Dichloroethene	0.100	0.090	10.0	93	0.00
13 TMP Hexane	-1.000	0.000	0.0	0	-3.05#
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.100	0.094	6.0	100	0.00
17 TMP trans-1,2-Dichloroethene	0.100	0.094	6.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	-1.000	0.087	0.0	0	0.02
19 TMP 1,1-Dichloroethane	0.100	0.096	4.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	-1.000	0.000	0.0	0	-3.55#
21 TMP 2,2-Dichloropropane	-1.000	0.077	0.0	0	-0.02
22 TMP cis-1,2-Dichloroethene	0.100	0.102	-2.0	100	0.00
23 TMP Chloroform	-1.000	0.097	0.0	0	0.00
24 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-3.70#
25 TMP t-Amyl methyl ether (TAME)	-1.000	0.000	0.0	0	-4.49#
26 TMP 1,2-Dichloroethane (EDC)	0.100	0.110	-10.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.100	0.093	7.0	100	0.00
28 TMP 1,1-Dichloropropene	-1.000	0.095	0.0	0	0.00
29 TMP Carbon tetrachloride	-1.000	0.065	0.0	0	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.186	-1.9	100	0.00
31 TMP Benzene	0.100	0.099	1.0	100	0.00
32 TMP Trichloroethene	0.100	0.099	1.0	100	0.00
33 TMP 1,2-Dichloropropane	-1.000	0.096	0.0	0	0.00
34 TMP Bromodichloromethane	-1.000	0.086	0.0	0	0.00
35 S Toluene-d8	10.000	10.256	-2.6	100	0.00
36 TMP Dibromomethane	-1.000	0.085	0.0	0	0.00
37 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-5.91#
38 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-5.75#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	0.100	0.114	-14.0	100	0.00
41 TMP	trans-1,3-Dichloropropene	-1.000	0.058	0.0	0	0.01
42 TMP	1,1,2-Trichloroethane	0.100	0.102	-2.0	100	0.00
43 TMP	2-Hexanone	-1.000	0.000	0.0	0	-6.64#
44 TMP	1,3-Dichloropropane	-1.000	0.000	0.0	0	-6.55#
45 TMP	Tetrachloroethene	0.100	0.117	-17.0	100	0.00
46 TMP	Dibromochloromethane	-1.000	0.000	0.0	0	-6.75#
47 TMP	1,2-Dibromoethane (EDB)	0.100	0.104	-4.0	100	0.00
48 TMP	Chlorobenzene	-1.000	0.000	0.0	0	-7.30#
49 TMP	Ethylbenzene	0.100	0.104	-4.0	100	0.00
50 TMP	1,1,1,2-Tetrachloroethane	-1.000	0.000	0.0	0	-7.38#
51 TMP	m,p-Xylene	0.200	0.212	-6.0	100	0.00
52 TMP	o-Xylene	0.100	0.100	0.0	100	0.00
53 TMP	Styrene	-1.000	0.000	0.0	0	-7.90#
54 TMP	Isopropylbenzene	-1.000	0.000	0.0	0	-8.23#
55 TMP	Bromoform	-1.000	0.000	0.0	0	-8.07#
56 I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S	4-Bromofluorobenzene	10.000	9.732	2.7	100	0.00
58 TMP	n-Propylbenzene	-1.000	0.000	0.0	0	-8.63#
59 TMP	Bromobenzene	-1.000	0.000	0.0	0	-8.51#
60 TMP	1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-8.79#
61 TMP	1,1,2,2-Tetrachloroethane	-1.000	0.066	0.0	0	0.00
62 TMP	1,2,3-Trichloropropane	-1.000	0.095	0.0	0	0.00
63 TMP	2-Chlorotoluene	-1.000	0.000	0.0	0	-8.70#
64 TMP	4-Chlorotoluene	-1.000	0.000	0.0	0	-8.81#
65 TMP	tert-Butylbenzene	-1.000	0.000	0.0	0	-9.10#
66 TMP	1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-9.15#
67 TMP	sec-Butylbenzene	-1.000	0.095	0.0	0	0.00
68 TMP	p-Isopropyltoluene	-1.000	0.000	0.0	0	-9.46#
69 TMP	1,3-Dichlorobenzene	-1.000	0.093	0.0	0	0.00
70 TMP	1,4-Dichlorobenzene	-1.000	0.099	0.0	0	0.00
71 TMP	1,2-Dichlorobenzene	-1.000	0.094	0.0	0	0.00
72 TMP	1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP	1,2,4-Trichlorobenzene	-1.000	0.093	0.0	0	0.00
74 TMP	Hexachlorobutadiene	-1.000	0.082	0.0	0	0.00
75 TMP	Naphthalene	0.100	0.000	100.0#	0	-11.68#
76 TMP	1,2,3-Trichlorobenzene	-1.000	0.124	0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Oibromofluoromethane	0.264	0.255	3.4	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.000#	100.0#	0#	0.02
5 TMP	Chloromethane	0.883	0.000#	100.0#	0#	0.00
6 TMP	Vinyl chloride	0.732	0.591	19.3	94	0.00
7 TMP	Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP	Chloroethane	0.336	0.000#	100.0#	0#	-1.59#
9 TMP	Trichlorofluoromethane	0.870	0.000#	100.0#	0#	-0.02
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.000#	100.0#	0#	0.00
12 TMP	1,1-Dichloroethene	0.240	0.217	9.6	93	0.00
13 TMP	Hexane	0.434	0.000#	100.0#	0#	-3.05#
14 TMP	Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP	t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.73#
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.688	6.1	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.255	6.3	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.000#	100.0#	0#	0.02
19 TMP	1,1-Dichloroethane	0.504	0.487	3.4	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.000#	100.0#	0#	-3.55#
21 TMP	2,2-Dichloropropane	0.316	0.000#	100.0#	0#	-0.02
22 TMP	cis-1,2-Dichloroethene	0.286	0.292	-2.1	100	0.00
23 TMP	Chloroform	0.477	0.000#	100.0#	0#	0.00
24 TMP	2-Butanone (MEK)	0.183	0.000#	100.0#	0#	-3.70#
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.000#	100.0#	0#	-4.49#
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.454	-9.9	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.410	6.8	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.000#	100.0#	0#	0.00
29 TMP	Carbon tetrachloride	0.367	0.000#	100.0#	0#	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	0.999	0.991	0.8	100	0.00
32 TMP	Trichloroethene	0.316	0.312	1.3	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.000#	100.0#	0#	0.00
34 TMP	Bromodichloromethane	0.357	0.000#	100.0#	0#	0.00
35 S	Toluene-d8	0.960	0.985	-2.6	100	0.00
36 TMP	Dibromomethane	0.169	0.000#	100.0#	0#	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.000#	100.0#	0#	-5.91#
38 TMP	cis-1,3-Dichloropropene	0.429	0.000#	100.0#	0#	-5.75#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.975	-13.6	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.000#	100.0#	0#	0.01
42 TMP 1,1,2-Trichloroethane	0.264	0.269	-1.9	100	0.00
43 TMP 2-Hexanone	0.335	0.000#	100.0#	0#	-6.64#
44 TMP 1,3-Dichloropropane	0.470	0.000#	100.0#	0#	-6.55#
45 TMP Tetrachloroethene	0.342	0.399	-16.7	100	0.00
46 TMP Dibromochloromethane	0.354	0.000#	100.0#	0#	-6.75#
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.340	-4.0	100	0.00
48 TMP Chlorobenzene	0.925	0.000#	100.0#	0#	-7.30#
49 TMP Ethylbenzene	1.611	1.669	-3.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.000#	100.0#	0#	-7.38#
51 TMP m,p-Xylene	0.607	0.642	-5.8	100	0.00
52 TMP o-Xylene	0.595	0.596	-0.2	100	0.00
53 TMP Styrene	0.973	0.000#	100.0#	0#	-7.90#
54 TMP Isopropylbenzene	1.564	0.000#	100.0#	0#	-8.23#
55 TMP Bromoform	0.252	0.000#	100.0#	0#	-8.07#
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.822	2.6	100	0.00
58 TMP n-Propylbenzene	3.281	0.000#	100.0#	0#	-8.63#
59 TMP Bromobenzene	0.770	0.000#	100.0#	0#	-8.51#
60 TMP 1,3,5-Trimethylbenzene	2.443	0.000#	100.0#	0#	-8.79#
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.000#	100.0#	0#	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.000#	100.0#	0#	0.00
63 TMP 2-Chlorotoluene	1.941	0.000#	100.0#	0#	-8.70#
64 TMP 4-Chlorotoluene	2.281	0.000#	100.0#	0#	-8.81#
65 TMP tert-Butylbenzene	2.141	0.000#	100.0#	0#	-9.10#
66 TMP 1,2,4-Trimethylbenzene	2.476	0.000#	100.0#	0#	-9.15#
67 TMP sec-Butylbenzene	3.103	0.000#	100.0#	0#	0.00
68 TMP p-Isopropyltoluene	2.672	0.000#	100.0#	0#	-9.46#
69 TMP 1,3-Dichlorobenzene	1.434	0.000#	100.0#	0#	0.00
70 TMP 1,4-Dichlorobenzene	1.461	0.000#	100.0#	0#	0.00
71 TMP 1,2-Dichlorobenzene	1.380	0.000#	100.0#	0#	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.000#	100.0#	0#	0.00
74 TMP Hexachlorobutadiene	0.542	0.000#	100.0#	0#	0.00
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.000#	100.0#	0#	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	49730	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	39074	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21750	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12666	9.653	ppb	0.00	
Spiked Amount	10.000		Range	50 - 150		Recovery = 96.50%	
30) 1,2-Dichloroethane-d4	4.36	102	3056	10.186	ppb	0.00	
Spiked Amount	10.000		Range	79 - 128		Recovery = 101.90%	
35) Toluene-d8	5.98	98	48969	10.256	ppb	0.00	
Spiked Amount	10.000		Range	84 - 121		Recovery = 102.60%	
57) 4-Bromofluorobenzene	8.38	95	17871	9.732	ppb	0.00	
Spiked Amount	10.000		Range	84 - 116		Recovery = 97.30%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0		N.D.		
4) Dichlorodifluoromethane	1.10	85	349		N.D.		
5) Chloromethane	1.22	50	919		N.D.		
6] Vinyl chloride	1.30	62	294m	0.081	ppb		
7) Bromomethane	0.00		0		N.D. d		
8) Chloroethane	0.00		0		N.D. d		
9) Trichlorofluoromethane	1.77	101	246		N.D.		
10) 2-Propanol	2.40	45	376		No Calib		
11) Acetone	2.27	58	73		N.D.		
12] 1,1-Dichloroethene	2.19	96	108m	0.090	ppb		
13) Hexane	0.00		0		N.D. d		
14) Methylene chloride	0.00		0		N.D. d		
15) t-Butyl alcohol (TBA)	0.00		0		N.D. d		
16] Methyl t-butyl ether (...)	2.84	73	342m	0.094	ppb		
17] trans-1,2-Dichloroethene	2.83	96	127	0.094	ppb		87
18) Diisopropyl ether (DIPE)	3.26	45	401		N.D.		
19] 1,1-Dichloroethane	3.18	63	242	0.096	ppb		97
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.		
21) 2,2-Dichloropropane	3.64	77	121		N.D.		
22] cis-1,2-Dichloroethene	3.67	96	145	0.102	ppb		91
23) Chloroform	3.95	83	229		N.D.		
24) 2-Butanone (MEK)	0.00		0		N.D. d		
25) t-Amyl methyl ether (T...)	0.00		0		N.D. d		
26] 1,2-Dichloroethane (EDC)	4.41	62	226	0.110	ppb		95
27] 1,1,1-Trichloroethane	4.08	97	204	0.093	ppb		94
28) 1,1-Dichloropropene	4.22	75	172		N.D.		
29) Carbon tetrachloride	4.21	117	119		N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-2SH  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31] Benzene	4.39	78	493	0.099	ppb	91
32] Trichloroethene	4.93	95	155	0.099	ppb	96
33] 1,2-Dichloropropane	5.13	63	142	N.D.		
34] Bromodichloromethane	5.37	83	153	N.D.		
36] Dibromomethane	5.23	93	71	N.D.		
37] 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38] cis-1,3-Dichloropropene	0.00		0	N.D.	d	
40] Toluene	6.03	92	381	0.114	ppb	93
41] trans-1,3-Dichloropropene	6.26	75	110	N.D.		
42] 1,1,2-Trichloroethane	6.40	83	105	0.102	ppb	95
43] 2-Hexanone	0.00		0	N.D.	d	
44] 1,3-Dichloropropane	0.00		0	N.D.	d	
45] Tetrachloroethene	6.51	164	156	0.117	ppb	92
46] Dibromochloromethane	0.00		0	N.D.		
47] 1,2-Dibromoethane (EDB)	6.85	107	133	0.104	ppb	100
48] Chlorobenzene	0.00		0	N.D.	d	
49] Ethylbenzene	7.40	91	652	0.104	ppb	99
50] 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	d	
51] m,p-Xylene	7.52	106	502	0.212	ppb	99
52] o-Xylene	7.88	106	233	0.100	ppb	96
53] Styrene	0.00		0	N.D.	d	
54] Isopropylbenzene	0.00		0	N.D.	d	
55] Bromoform	0.00		0	N.D.		
58] n-Propylbenzene	0.00		0	N.D.	d	
59] Bromobenzene	0.00		0	N.D.	d	
60] 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
61] 1,1,2,2-Tetrachloroethane	8.54	83	100	N.D.		
62] 1,2,3-Trichloropropane	8.57	75	121	N.D.		
63] 2-Chlorotoluene	0.00		0	N.D.	d	
64] 4-Chlorotoluene	0.00		0	N.D.	d	
65] tert-Butylbenzene	0.00		0	N.D.	d	
66] 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
67] sec-Butylbenzene	9.31	105	644	N.D.		
68] p-Isopropyltoluene	0.00		0	N.D.	d	
69] 1,3-Dichlorobenzene	9.41	146	290	N.D.		
70] 1,4-Dichlorobenzene	9.50	146	313	N.D.		
71] 1,2-Dichlorobenzene	9.86	146	281	N.D.		
72] 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73] 1,2,4-Trichlorobenzene	11.44	180	199	N.D.		
74] Hexachlorobutadiene	11.61	225	97	N.D.		
75] Naphthalene	0.00		0	N.D.	d	
76] 1,2,3-Trichlorobenzene	11.93	180	243	N.D.		



Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
Data File : 121230.D  
Acq On : 12 Dec 2022 11:21 pm  
Operator : LM  
Sample : 0.1 ppb 8260 ICAL 68-25H  
Misc : soil/water  
ALS Vial : 8 Sample Multiplier: 1  
InstName : GCMS11

Quant Time: Dec 15 11:21:39 2022  
Quant Method : D:\Methods\Inst11\VB121222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Tue Dec 13 13:28:26 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M'

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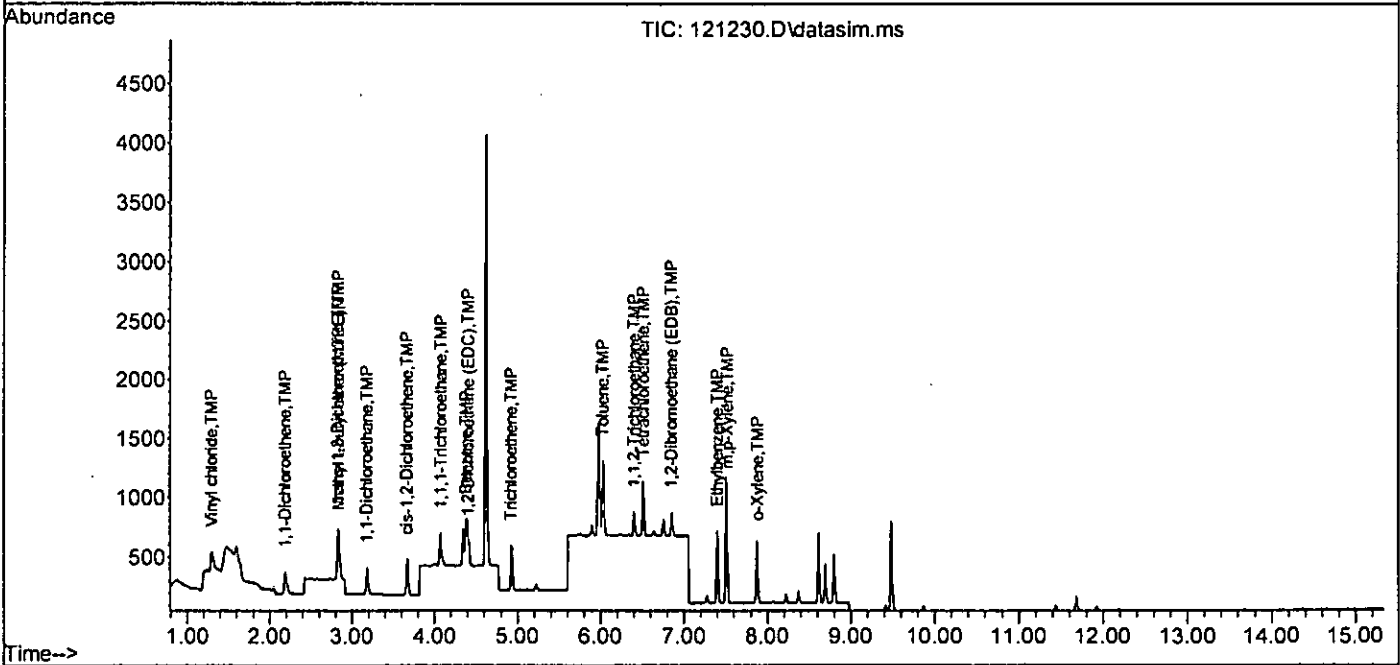
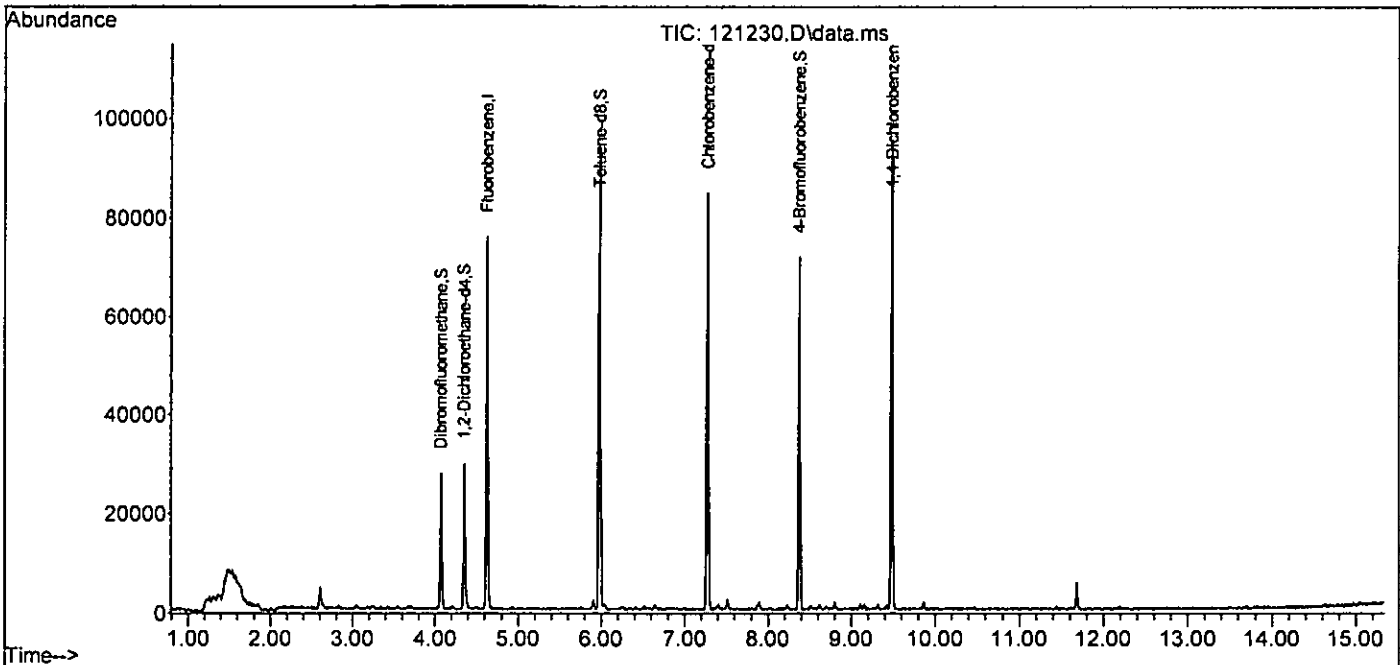
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121230.D  
 Acq On : 12 Dec 2022 11:21 pm  
 Operator : LM  
 Sample : 0.1 ppb 8260 ICAL 68-25H  
 Misc : soil/water  
 ALS Vial : 8 Sample Multiplier: 1  
 InstName : GCMS11

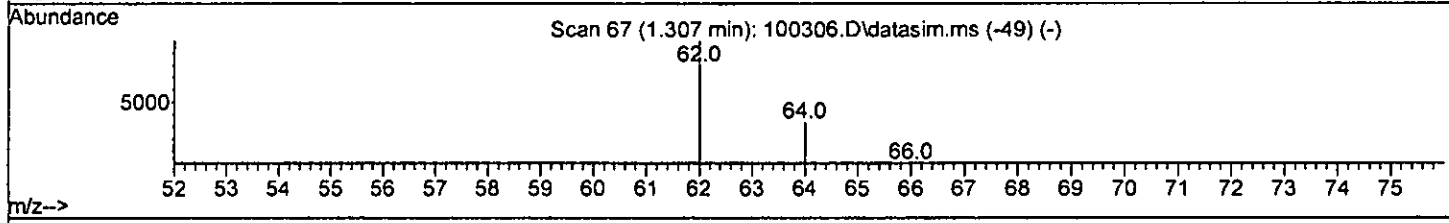
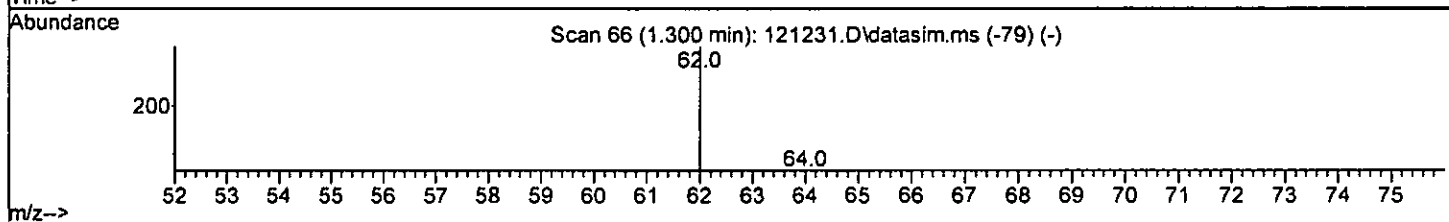
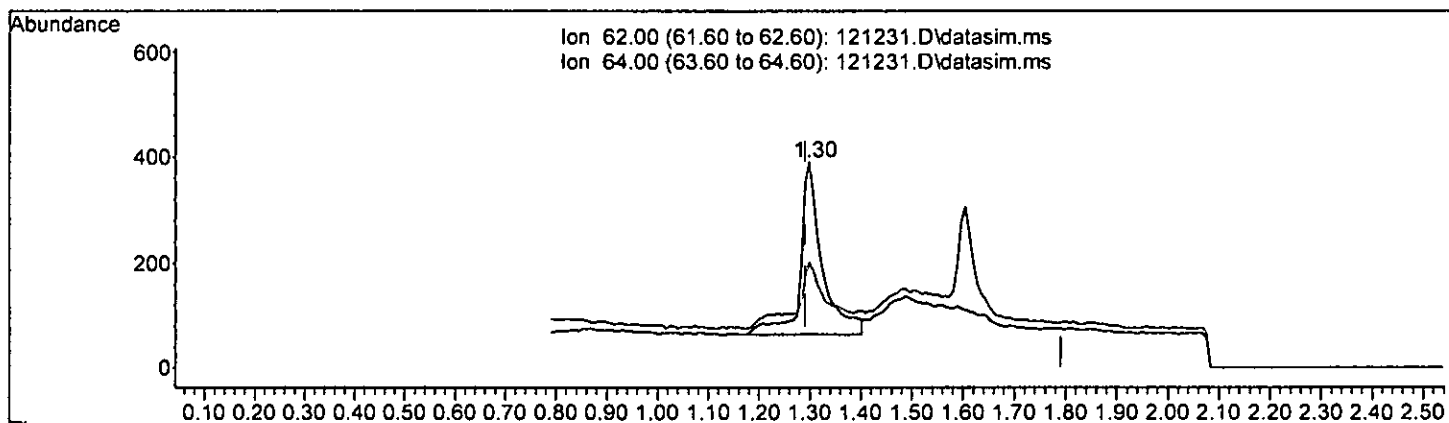
Quant Time: Dec 15 11:21:39 2022  
 Quant Method : D:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth: VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121231.D\data.ms

(6) Vinyl chloride (TMP)

1.300min (+ 0.008) 0.273 ppb

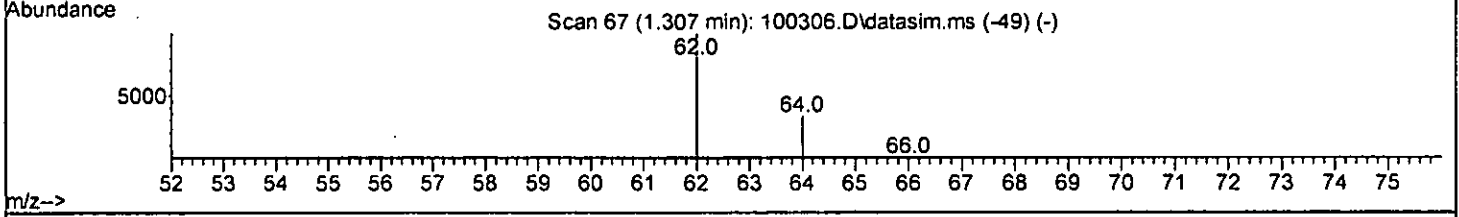
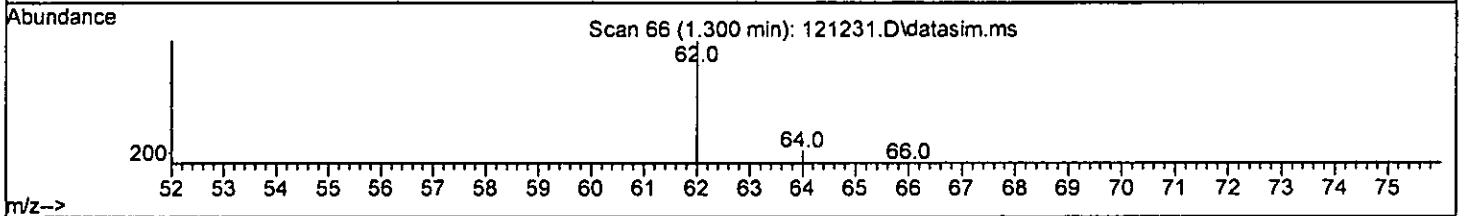
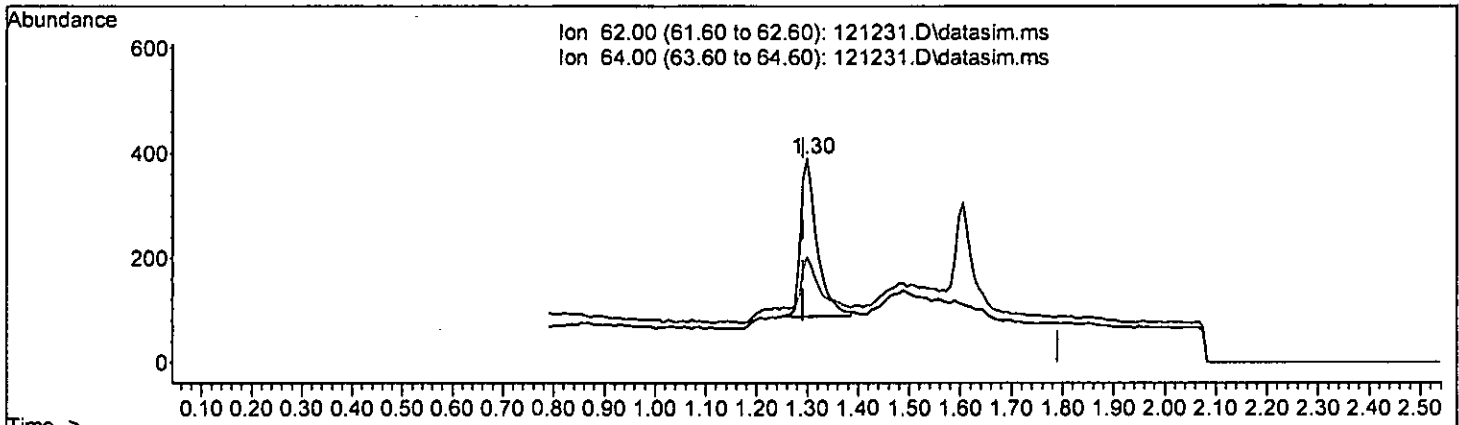
response	974	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	29.80	38.23
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



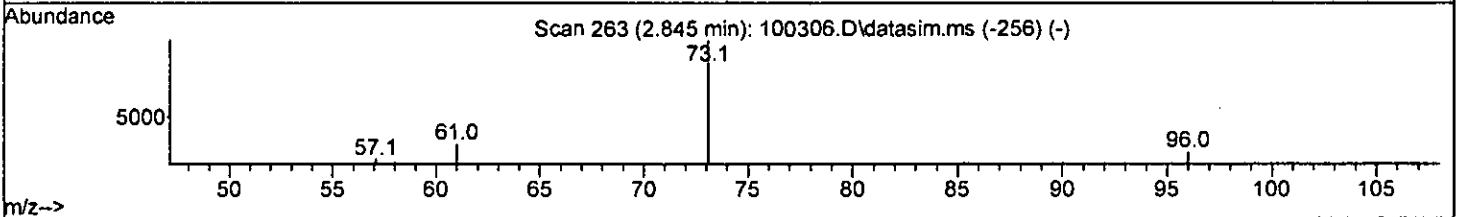
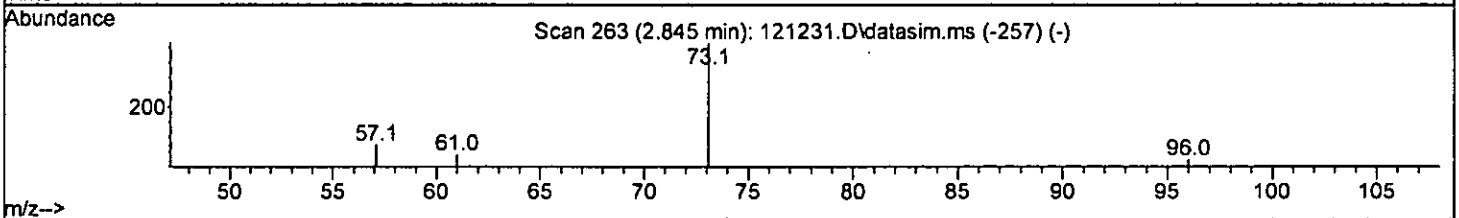
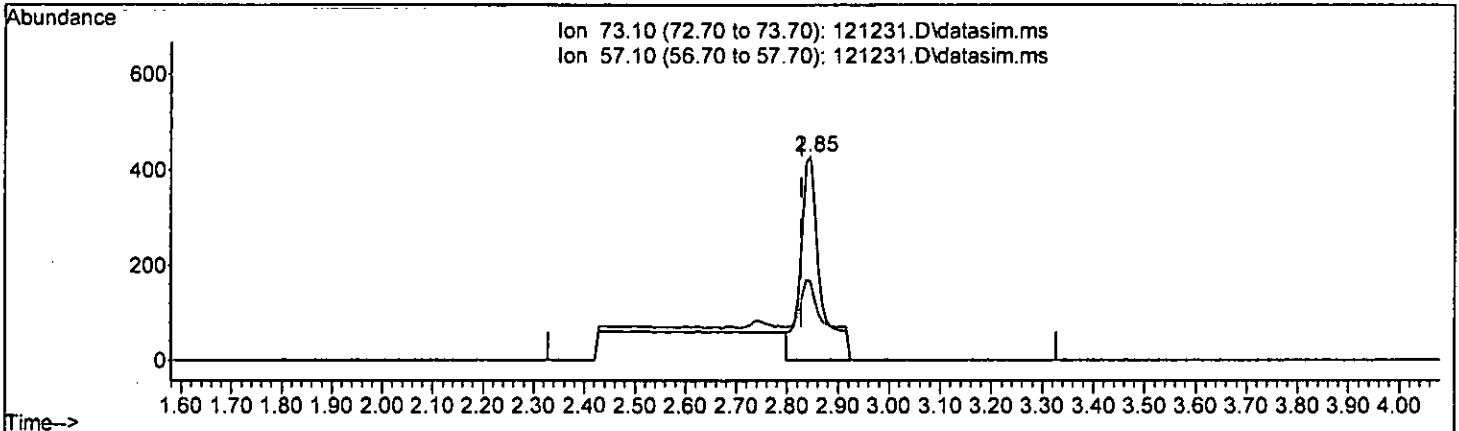
TIC: 121231.D\data.ms

(6) Vinyl chloride (TMP)			
1.300min (+ 0.008) 0.188 ppb m			
response	670		
Ion	Exp%	Act%	
62.00	100.00	100.00	<i>12/15 DM</i>
64.00	28.80	51.41	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121231.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.016) 0.319 ppb

response 1142

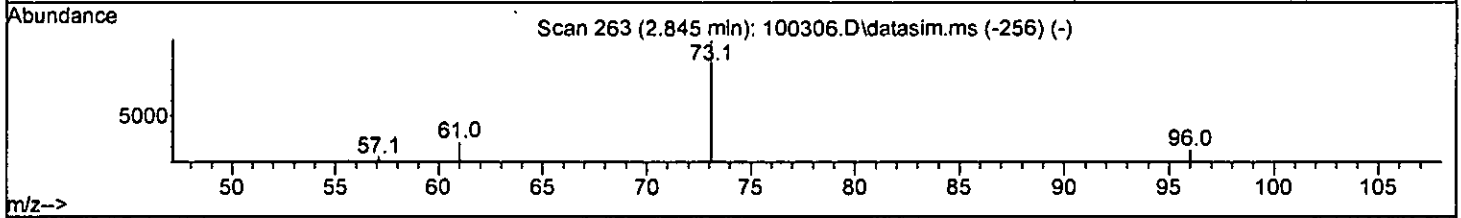
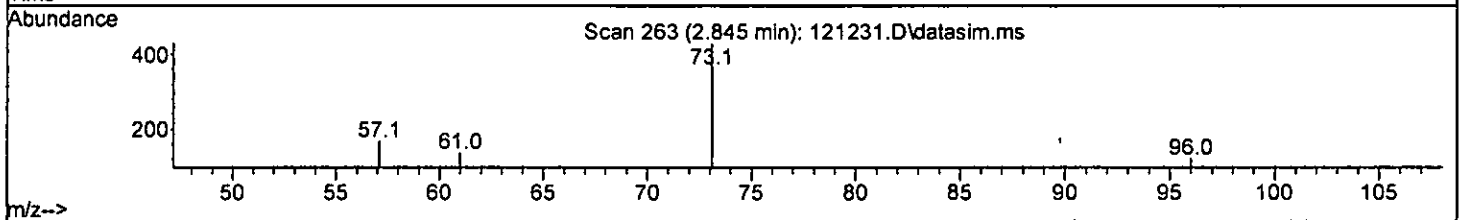
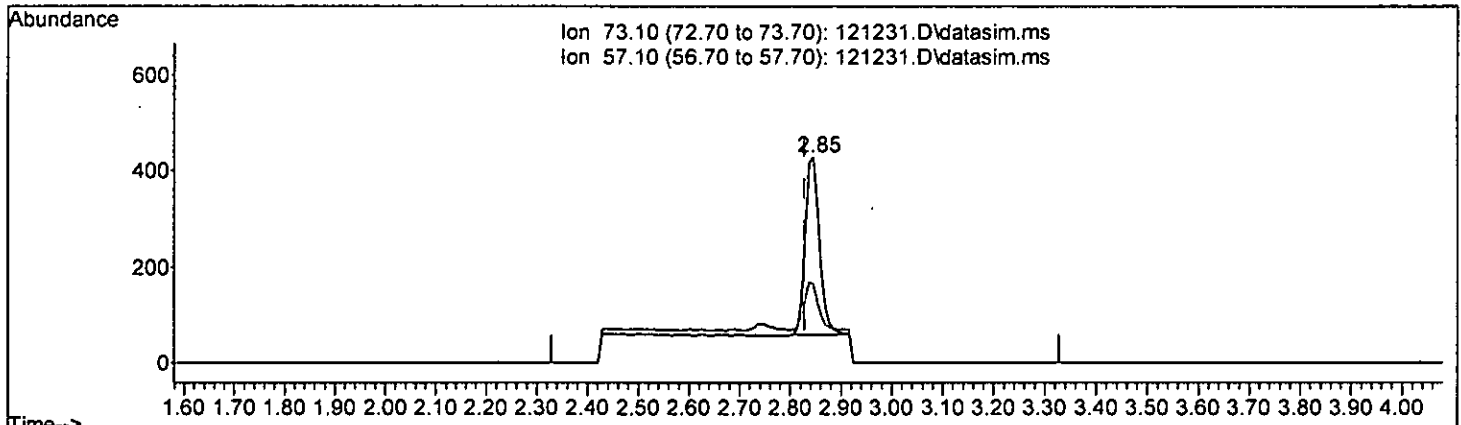
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	24.80	38.69
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 Jan*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121231.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.016) 0.200 ppb m

response	716		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	24.80	38.69	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15/2022*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	9.925	0.7	100	0.00
4 TMP	Dichlorodifluoromethane	-1.000	0.000	0.0	0	-1.08#
5 TMP	Chloromethane	-1.000	0.000	0.0	0	-1.22#
6 TMP	Vinyl chloride	0.200	0.188	6.0	103	0.00
7 TMP	Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP	Chloroethane	-1.000	0.000	0.0	0	-1.59#
9 TMP	Trichlorofluoromethane	0.200	0.215	-7.5	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	-1.000	0.000	0.0	0	-2.26#
12 TMP	1,1-Dichloroethene	0.200	0.208	-4.0	100	0.00
13 TMP	Hexane	-1.000	0.000	0.0	0	-3.05#
14 TMP	Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP	t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-2.73#
16 TMP	Methyl t-butyl ether (MTBE)	0.200	0.200	0.0	98	0.02
17 TMP	trans-1,2-Dichloroethene	0.200	0.206	-3.0	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.200	0.232	-16.0	100	0.00
19 TMP	1,1-Dichloroethane	0.200	0.210	-5.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.200	0.218	-9.0	100	0.00
21 TMP	2,2-Dichloropropane	0.200	0.239	-19.5	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.200	0.212	-6.0	100	0.00
23 TMP	Chloroform	0.200	0.213	-6.5	100	0.00
24 TMP	2-Butanone (MEK)	1.000	0.000	100.0#	0	-3.70#
25 TMP	t-Amyl methyl ether (TAME)	0.200	0.189	5.5	100	0.02
26 TMP	1,2-Dichloroethane (EDC)	0.200	0.227	-13.5	100	0.00
27 TMP	1,1,1-Trichloroethane	0.200	0.202	-1.0	100	0.00
28 TMP	1,1-Dichloropropene	0.200	0.208	-4.0	100	0.00
29 TMP	Carbon tetrachloride	0.200	0.163	18.5	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.295	-2.9	100	0.00
31 TMP	Benzene	0.200	0.215	-7.5	100	0.00
32 TMP	Trichloroethene	0.200	0.209	-4.5	100	0.00
33 TMP	1,2-Dichloropropane	0.200	0.220	-10.0	100	0.00
34 TMP	Bromodichloromethane	0.200	0.209	-4.5	100	0.00
35 S	Toluene-d8	10.000	9.849	1.5	100	0.00
36 TMP	Dibromomethane	0.200	0.144	28.0#	100	0.00
37 TMP	4-Methyl-2-pentanone	1.000	0.000	100.0#	0	-5.91#
38 TMP	cis-1,3-Dichloropropene	0.200	0.278	-39.0#	100	0.00

OK 12/15  
 JLM

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.200	0.214	-7.0	100	0.00
41 TMP trans-1,3-Dichloropropene	0.200	0.185	7.5	100	0.00
42 TMP 1,1,2-Trichloroethane	0.200	0.205	-2.5	100	0.00
43 TMP 2-Hexanone	-1.000	0.000	0.0	0	-6.64#
44 TMP 1,3-Dichloropropane	0.200	0.167	16.5	100	0.00
45 TMP Tetrachloroethene	0.200	0.219	-9.5	100	0.00
46 TMP Dibromochloromethane	0.200	0.183	8.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.200	0.209	-4.5	100	0.00
48 TMP Chlorobenzene	0.200	0.209	-4.5	100	0.00
49 TMP Ethylbenzene	0.200	0.213	-6.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.200	0.149	25.5#	100	0.00
51 TMP m,p-Xylene	0.400	0.428	-7.0	100	0.00
52 TMP o-Xylene	0.200	0.210	-5.0	100	0.00
53 TMP Styrene	0.200	0.206	-3.0	100	0.00
54 TMP Isopropylbenzene	0.200	0.218	-9.0	100	0.00
55 TMP Bromoform	0.200	0.180	10.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.912	0.9	100	0.00
58 TMP n-Propylbenzene	0.200	0.212	-6.0	100	0.00
59 TMP Bromobenzene	0.200	0.205	-2.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.200	0.247	-23.5#	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.200	0.203	-1.5	100	0.00
62 TMP 1,2,3-Trichloropropane	0.200	0.269	-34.5#	100	0.00 OK 14.5 JLM
63 TMP 2-Chlorotoluene	0.200	0.241	-20.5#	100	0.00
64 TMP 4-Chlorotoluene	0.200	0.259	-29.5#	100	0.00
65 TMP tert-Butylbenzene	0.200	0.214	-7.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.200	0.229	-14.5	100	0.00
67 TMP sec-Butylbenzene	0.200	0.216	-8.0	100	0.00
68 TMP p-Isopropyltoluene	0.200	0.201	-0.5	100	0.00
69 TMP 1,3-Dichlorobenzene	0.200	0.220	-10.0	100	0.00
70 TMP 1,4-Dichlorobenzene	0.200	0.225	-12.5	100	0.00
71 TMP 1,2-Dichlorobenzene	0.200	0.196	2.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.200	0.182	9.0	100	0.00
74 TMP Hexachlorobutadiene	0.200	0.223	-11.5	100	0.00
75 TMP Naphthalene	0.200	0.000	100.0#	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.200	0.200	0.0	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.262	0.8	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.000#	100.0#	0#	-1.08#
5 TMP Chloromethane	0.883	0.000#	100.0#	0#	-1.22#
6 TMP Vinyl chloride	0.732	0.687	6.1	103	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP Chloroethane	0.336	0.000#	100.0#	0#	-1.59#
9 TMP Trichlorofluoromethane	0.870	0.934	-7.4	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.000#	100.0#	0#	-2.26#
12 TMP 1,1-Dichloroethene	0.240	0.250	-4.2	100	0.00
13 TMP Hexane	0.434	0.000#	100.0#	0#	-3.05#
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.000#	100.0#	0#	-2.73#
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.734	-0.1	98	0.02
17 TMP trans-1,2-Dichloroethene	0.272	0.280	-2.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	1.080	-15.9	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.529	-5.0	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.323	-9.1	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.378	-19.6	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.303	-5.9	100	0.00
23 TMP Chloroform	0.477	0.509	-6.7	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.000#	100.0#	0#	-3.70#
25 TMP t-Amyl methyl ether (TAME)	0.694	0.656	5.5	100	0.02
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.469	-13.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.444	-0.9	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.376	-3.9	100	0.00
29 TMP Carbon tetrachloride	0.367	0.298	18.8	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP Benzene	0.999	1.074	-7.5	100	0.00
32 TMP Trichloroethene	0.316	0.330	-4.4	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.326	-10.1	100	0.00
34 TMP Bromodichloromethane	0.357	0.373	-4.5	100	0.00
35 S Toluene-d8	0.960	0.946	1.5	100	0.00
36 TMP Dibromomethane	0.169	0.122	27.8#	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.000#	100.0#	0#	-5.91#
38 TMP cis-1,3-Dichloropropene	0.429	0.595	-38.7#	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.916	-6.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.448	7.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.270	-2.3	100	0.00
43 TMP 2-Hexanone	0.335	0.000#	100.0#	0#	-6.64#
44 TMP 1,3-Dichloropropane	0.470	0.392	16.6	100	0.00
45 TMP Tetrachloroethene	0.342	0.375	-9.6	100	0.00
46 TMP Dibromochloromethane	0.354	0.323	8.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.343	-4.9	100	0.00
48 TMP Chlorobenzene	0.925	0.967	-4.5	100	0.00
49 TMP Ethylbenzene	1.611	1.713	-6.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.249	25.2#	100	0.00
51 TMP m,p-Xylene	0.607	0.649	-6.9	100	0.00
52 TMP o-Xylene	0.595	0.623	-4.7	100	0.00
53 TMP Styrene	0.973	1.002	-3.0	100	0.00
54 TMP Isopropylbenzene	1.564	1.708	-9.2	100	0.00
55 TMP Bromoform	0.252	0.227	9.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.837	0.8	100	0.00
58 TMP n-Propylbenzene	3.281	3.483	-6.2	100	0.00
59 TMP Bromobenzene	0.770	0.791	-2.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	3.022	-23.7#	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.708	-1.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.788	-34.5#	100	0.00
63 TMP 2-Chlorotoluene	1.941	2.337	-20.4#	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.951	-29.4#	100	0.00
65 TMP tert-Butylbenzene	2.141	2.292	-7.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.838	-14.6	100	0.00
67 TMP sec-Butylbenzene	3.103	3.358	-8.2	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.690	-0.7	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.574	-9.8	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.640	-12.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.351	2.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.890	9.2	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.605	-11.6	100	0.00
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.906	-0.2	100	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	4.63	96	48767	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38819	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21245	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12771	9.925	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.30%		
30) 1,2-Dichloroethane-d4	4.36	102	3029	10.295	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	103.00%		
35) Toluene-d8	5.98	98	46117	9.849	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	98.50%		
57) 4-Bromofluorobenzene	8.38	95	17778	9.912	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	99.10%		
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.	d		
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.30	62	670m	0.188	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.	d		
9) Trichlorofluoromethane	1.79	101	911	0.215	ppb		75
10) 2-Propanol	2.41	45	207	No Calib			
11) Acetone	0.00		0	N.D.	d		
12] 1,1-Dichloroethene	2.19	96	244	0.208	ppb		89
13) Hexane	0.00		0	N.D.	d		
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16] Methyl t-butyl ether (...)	2.85	73	716m	0.200	ppb		
17] trans-1,2-Dichloroethene	2.83	96	273	0.206	ppb		95
18) Diisopropyl ether (DIPE)	3.24	45	1053m	0.232	ppb		
19] 1,1-Dichloroethane	3.18	63	516	0.210	ppb		94
20) Ethyl t-butyl ether (E...)	3.56	87	315m	0.218	ppb		
21) 2,2-Dichloropropane	3.66	77	369	0.239	ppb		47
22] cis-1,2-Dichloroethene	3.67	96	296	0.212	ppb		98
23) Chloroform	3.94	83	496	0.213	ppb		97
24) 2-Butanone (MEK)	0.00		0	N.D.	d		
25) t-Amyl methyl ether (T...)	4.51	73	640	0.189	ppb		57
26] 1,2-Dichloroethane (EDC)	4.42	62	457	0.227	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	433	0.202	ppb		96
28) 1,1-Dichloropropene	4.22	75	367	0.208	ppb	#	60
29) Carbon tetrachloride	4.22	117	291	0.163	ppb		80

Quantitation Report (QT Reviewed)

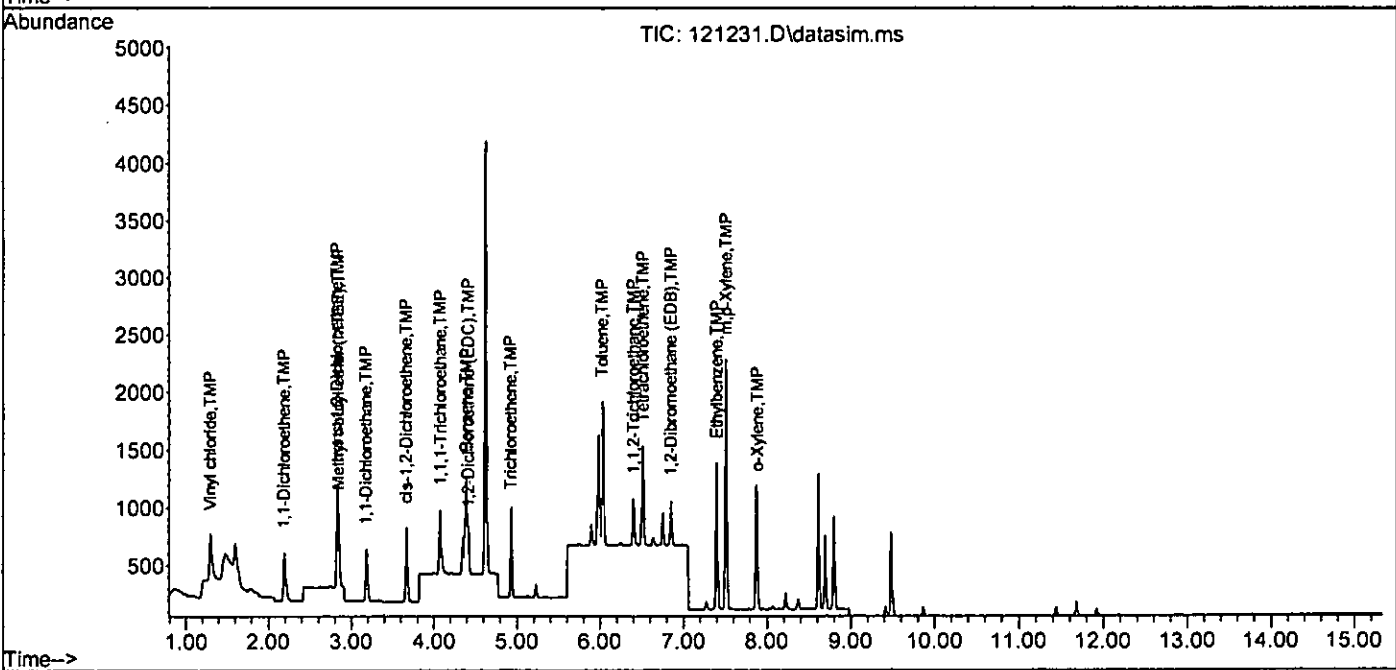
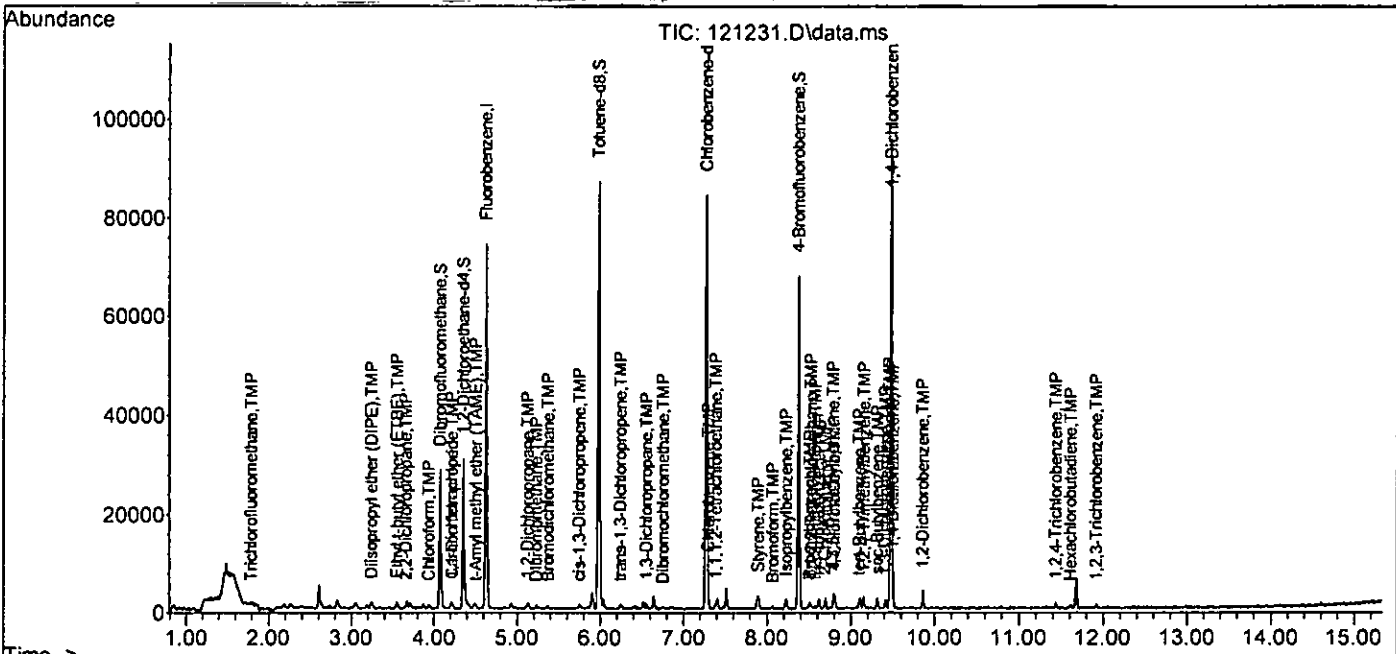
Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Oev(Min)
31] Benzene	4.39	78	1048	0.215	ppb	99
32] Trichloroethene	4.93	95	322	0.209	ppb	99
33] 1,2-Dichloropropane	5.13	63	318	0.220	ppb #	91
34] Bromodichloromethane	5.37	83	364	0.209	ppb	67
36] Dibromomethane	5.23	93	119	0.144	ppb #	45
37] 4-Methyl-2-pentanone	0.00		0	N.D.	d	
38] cis-1,3-Dichloropropene	5.75	75	580	0.278	ppb	83
40] Toluene	6.03	92	711	0.214	ppb	91
41] trans-1,3-Dichloropropene	6.25	75	348	0.185	ppb	74
42] 1,1,2-Trichloroethane	6.40	83	210	0.205	ppb	97
43] 2-Hexanone	0.00		0	N.D.	d	
44] 1,3-Dichloropropane	6.55	76	304	0.167	ppb	84
45] Tetrachloroethene	6.51	164	291	0.219	ppb	99
46] Dibromochloromethane	6.75	129	251	0.183	ppb	80
47] 1,2-Dibromoethane (EDB)	6.85	107	266	0.209	ppb	97
48] Chlorobenzene	7.30	112	751	0.209	ppb	93
49] Ethylbenzene	7.40	91	1330	0.213	ppb	99
50] 1,1,1,2-Tetrachloroethane	7.39	131	193	0.149	ppb #	66
51] m,p-Xylene	7.51	106	1008	0.428	ppb #	69
52] o-Xylene	7.88	106	484	0.210	ppb	100
53] Styrene	7.90	104	778	0.206	ppb	68
54] Isopropylbenzene	8.23	105	1326	0.218	ppb	91
55] Bromoform	8.07	173	176	0.180	ppb #	32
58] n-Propylbenzene	8.62	91	1480	0.212	ppb	63
59] Bromobenzene	8.51	156	336	0.205	ppb	89
60] 1,3,5-Trimethylbenzene	8.79	105	1284	0.247	ppb	76
61] 1,1,2,2-Tetrachloroethane	8.52	83	301	0.203	ppb #	59
62] 1,2,3-Trichloropropane	8.57	75	335	0.269	ppb	82
63] 2-Chlorotoluene	8.70	91	993	0.241	ppb	84
64] 4-Chlorotoluene	8.81	91	1254	0.259	ppb	95
65] tert-Butylbenzene	9.10	119	974	0.214	ppb	89
66] 1,2,4-Trimethylbenzene	9.15	105	1206	0.229	ppb	86
67] sec-Butylbenzene	9.31	105	1427	0.216	ppb	90
68] p-Isopropyltoluene	9.46	119	1143	0.201	ppb	97
69] 1,3-Dichlorobenzene	9.41	146	669	0.220	ppb	95
70] 1,4-Dichlorobenzene	9.50	146	697	0.225	ppb	95
71] 1,2-Dichlorobenzene	9.86	146	574	0.196	ppb	96
72] 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73] 1,2,4-Trichlorobenzene	11.44	180	378	0.182	ppb	84
74] Hexachlorobutadiene	11.61	225	257	0.223	ppb #	68
75] Naphthalene	0.00		0	N.D.	d	
76] 1,2,3-Trichlorobenzene	11.91	180	385	0.200	ppb #	65

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121231.D  
 Acq On : 12 Dec 2022 11:44 pm  
 Operator : LM  
 Sample : 0.2 ppb 8260 ICAL 68-25I  
 Misc : soil/water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS11

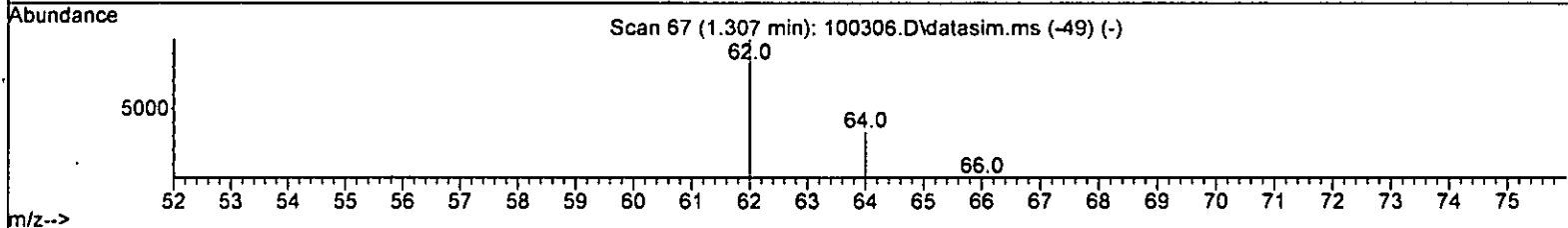
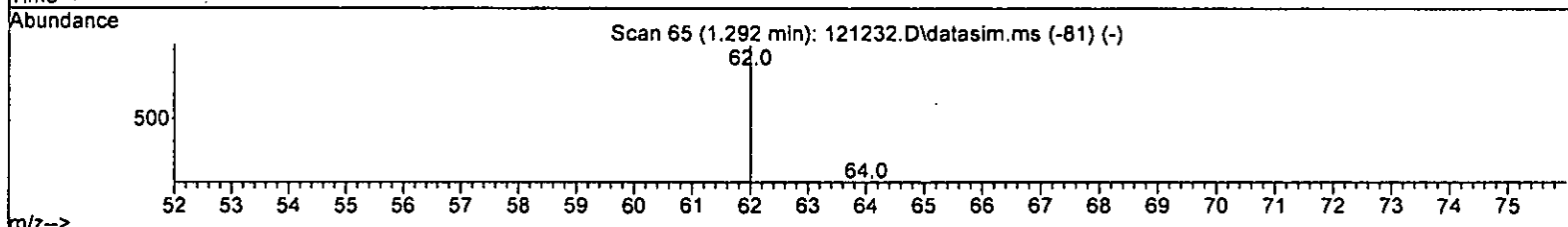
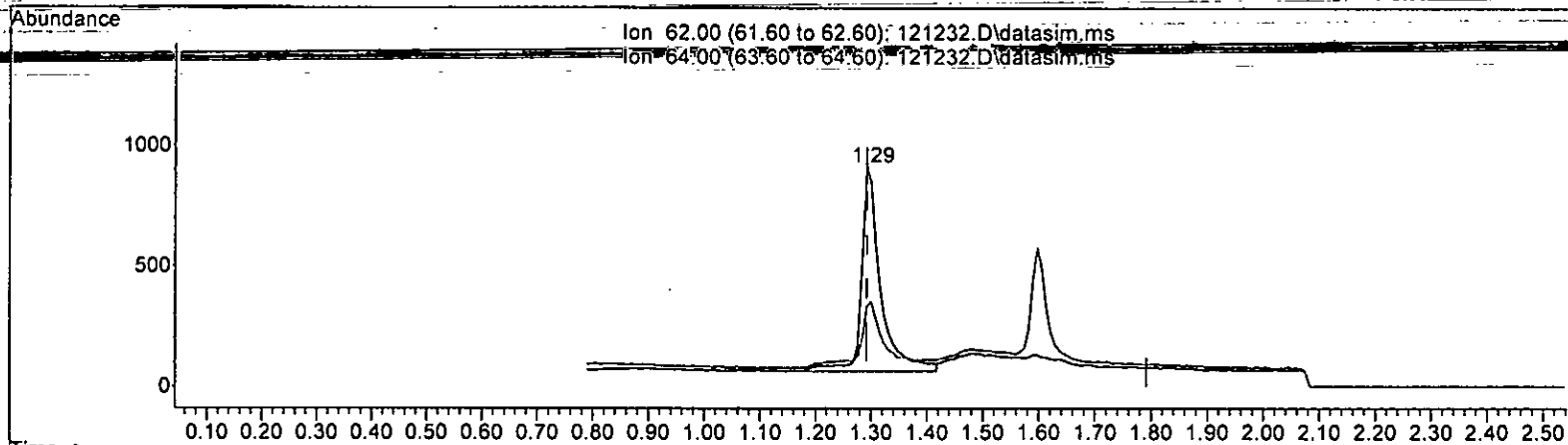
Quant Time: Dec 15 11:21:41 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(6) Vinyl chloride (TMP)

1.292min (-0.000) 0.572 ppb

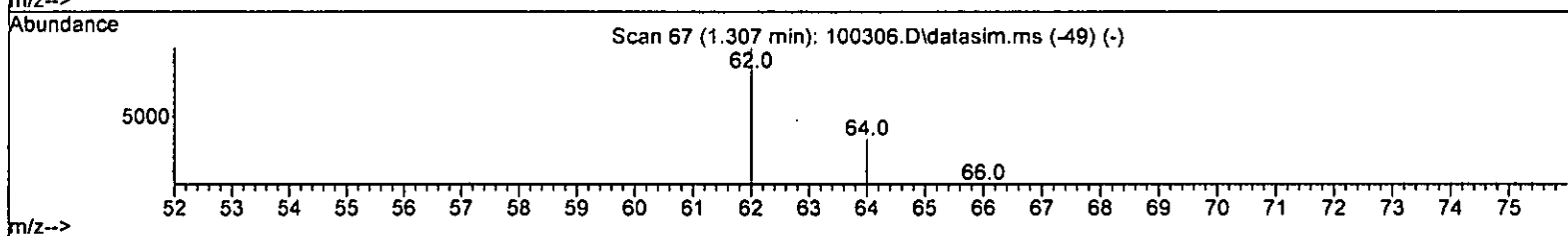
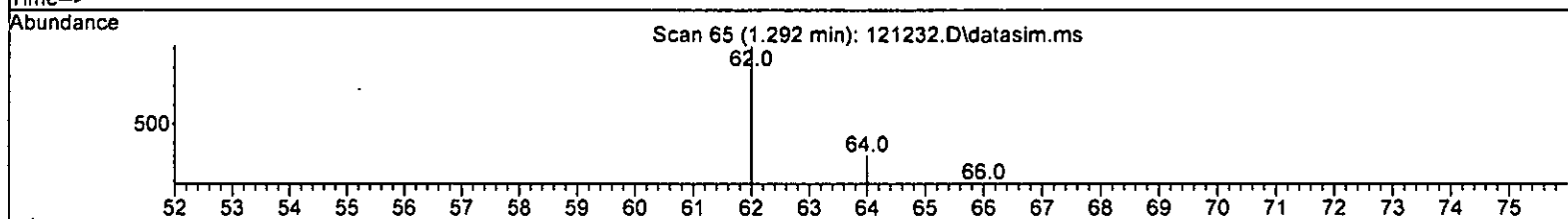
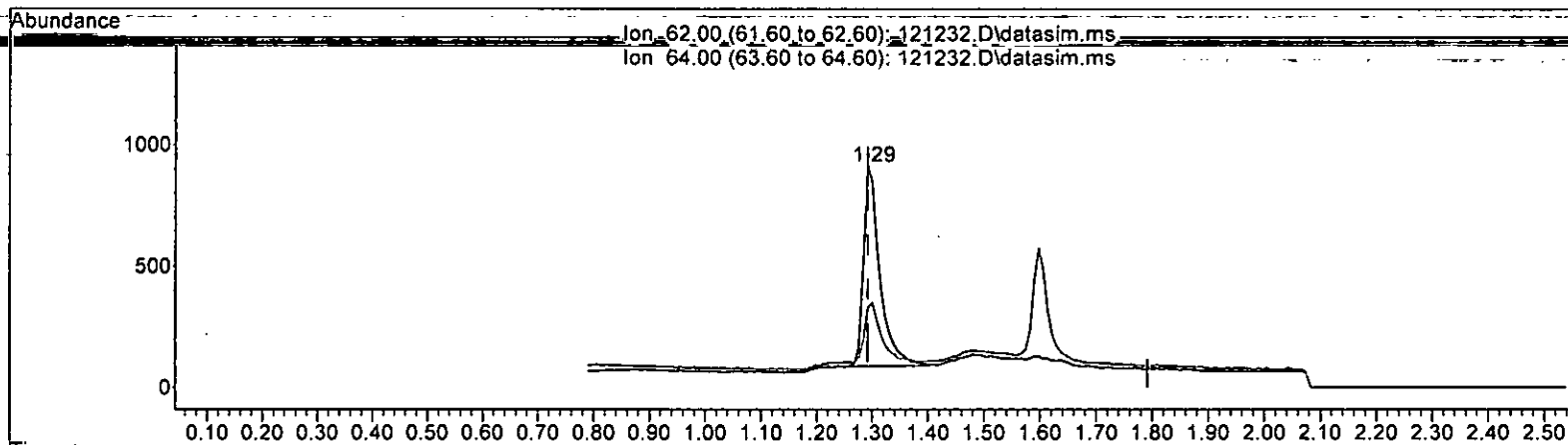
response	2023	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	29.83
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 121232.D\data.ms

(6) Vinyl chloride (TMP)  
 1.292min (-0.000) 0.472 ppb m

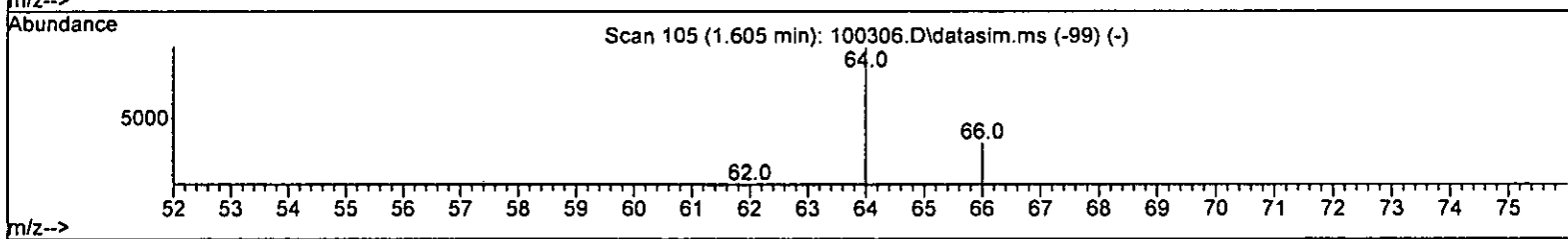
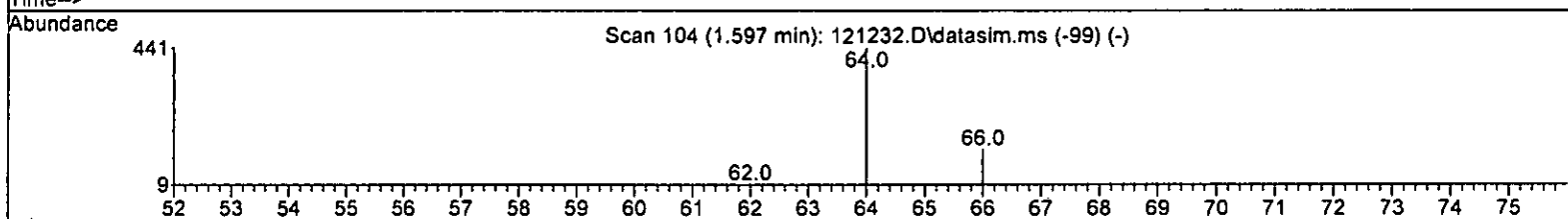
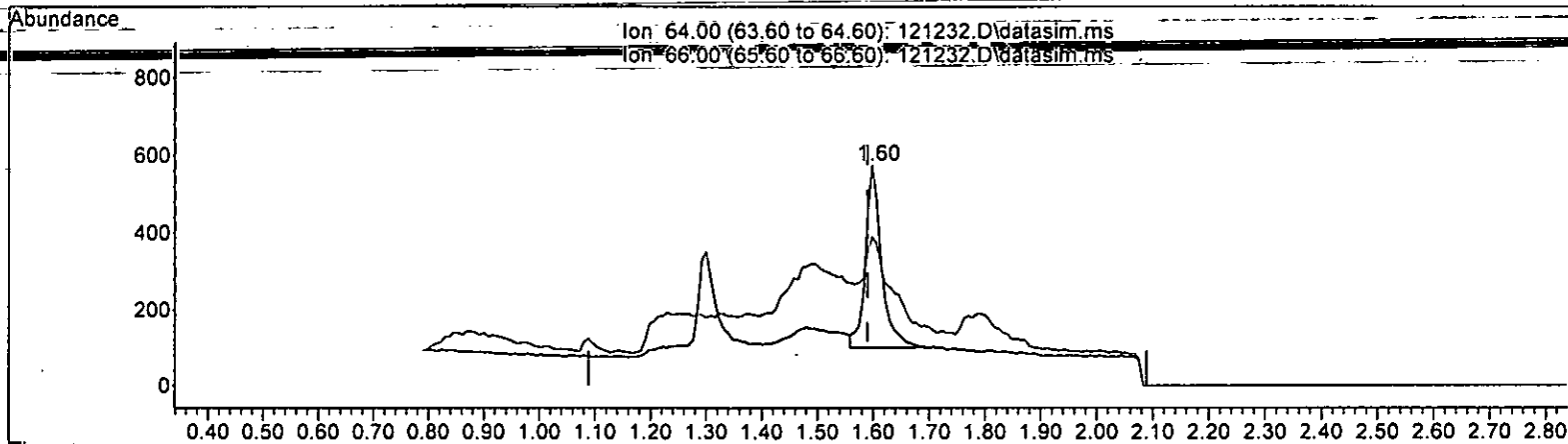
response	1669		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	36.18	
0.00	0.00	0.00	
0.00	0.00	0.00	

*LM 12/15*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(8) Chloroethane (TMP)			
1.597min (+ 0.008) 0.581 ppb			
response	945		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	29.60	49.68	
0.00	0.00	0.00	
0.00	0.00	0.00	

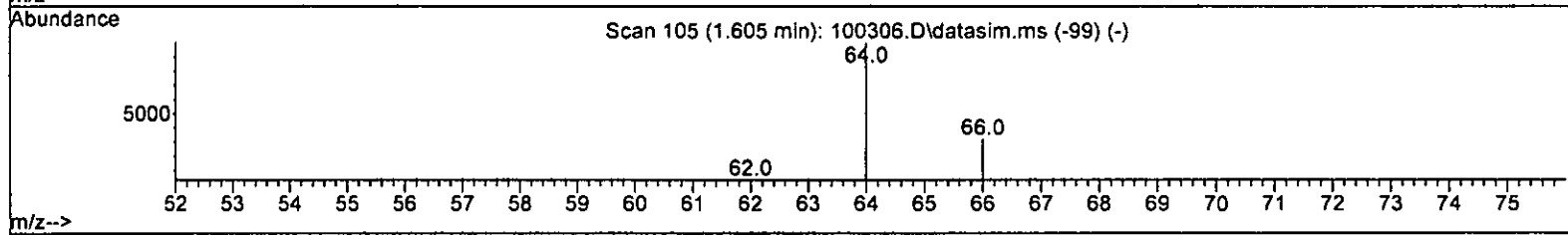
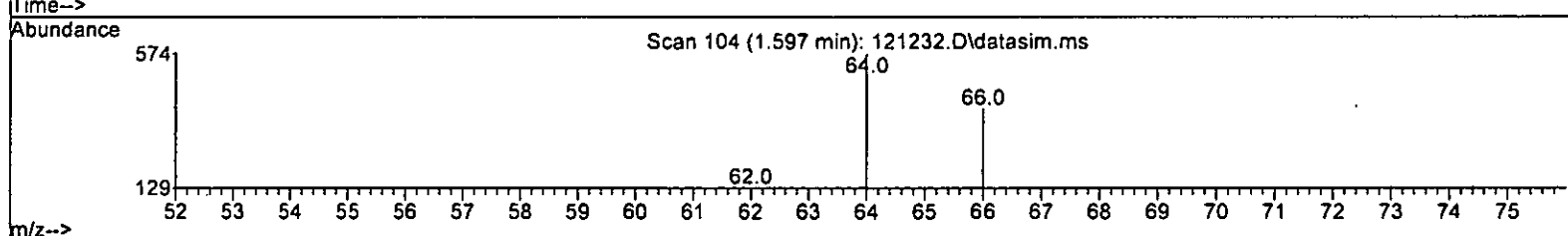
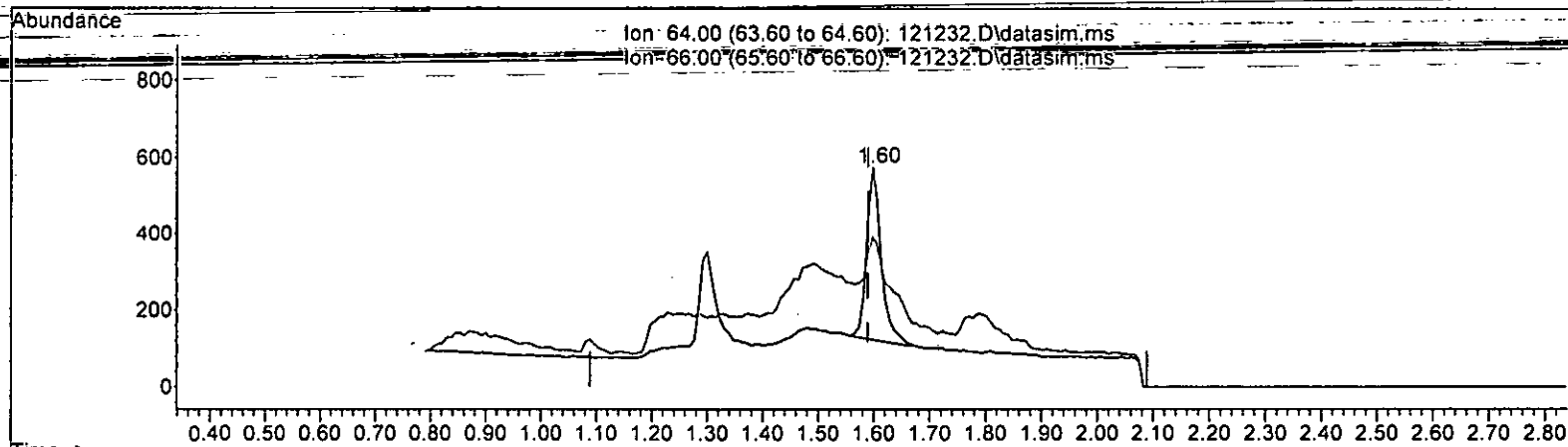
*Handwritten note: 12/15/2022*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(8) Chloroethane (TMP)

1.597min (+ 0.008) 0.499 ppb m

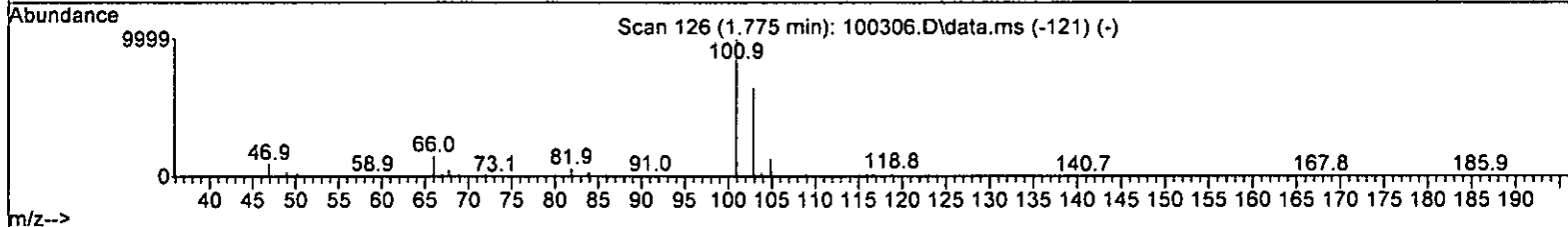
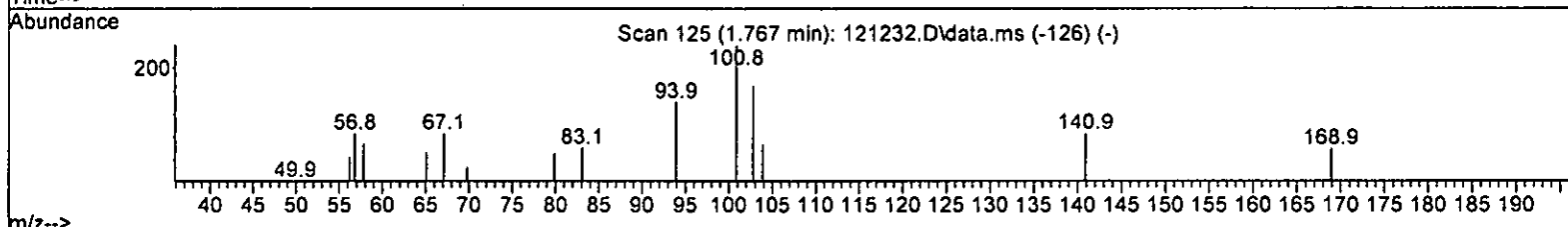
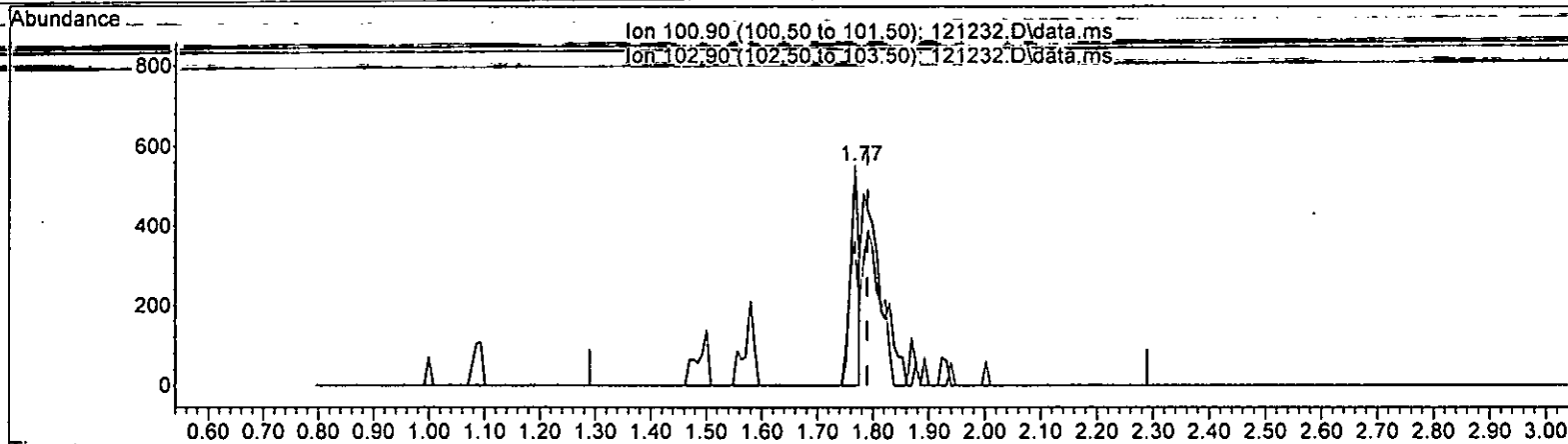
response	812		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	29.60	67.83#	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 0.136 ppb

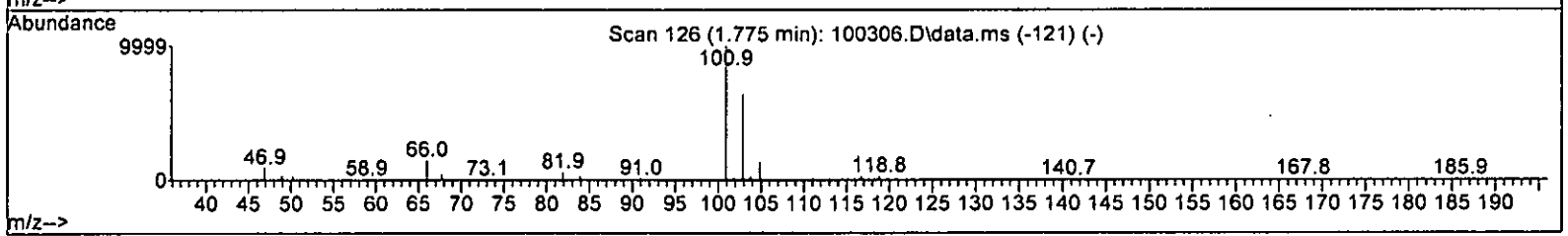
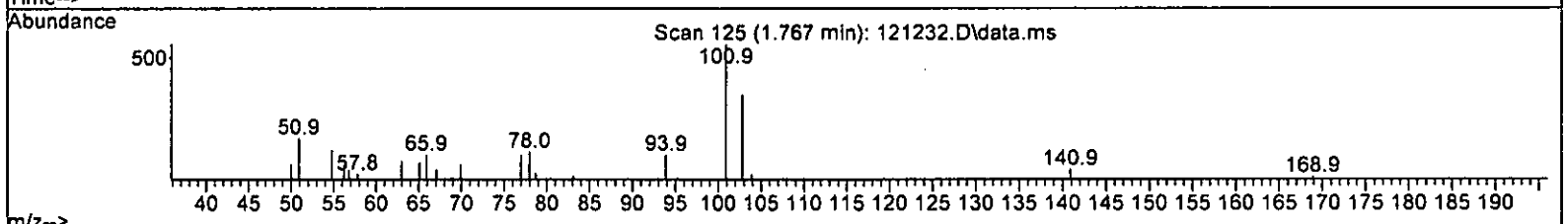
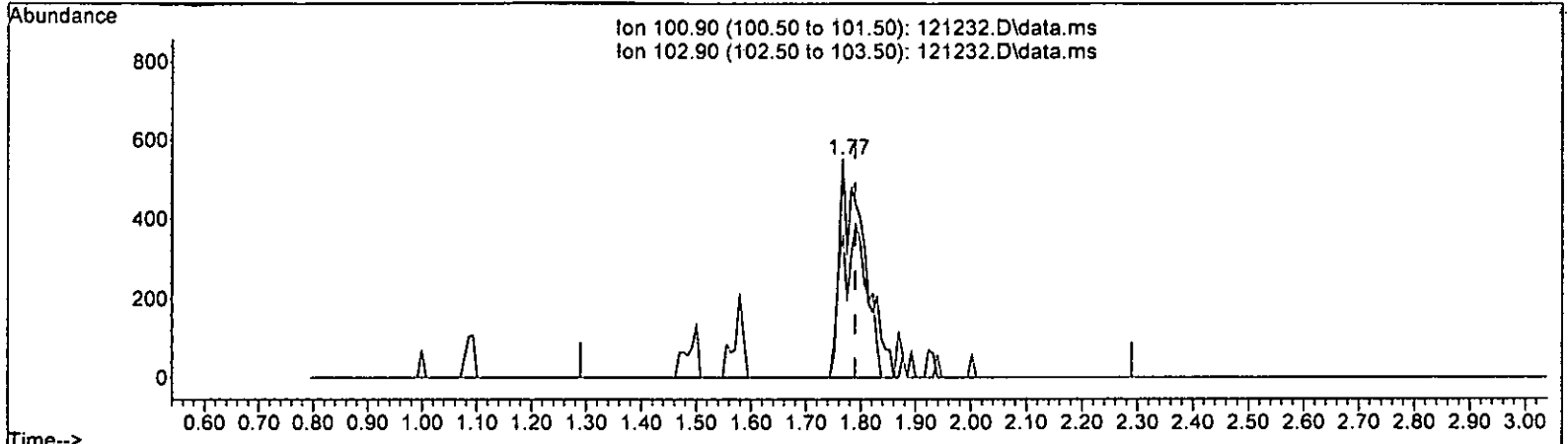
response	571
Ion	Exp% Act%
100.90	100.00 100.00
102.90	62.70 65.40
0.00	0.00 0.00
0.00	0.00 0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(9) Trichlorofluoromethane (TMP)

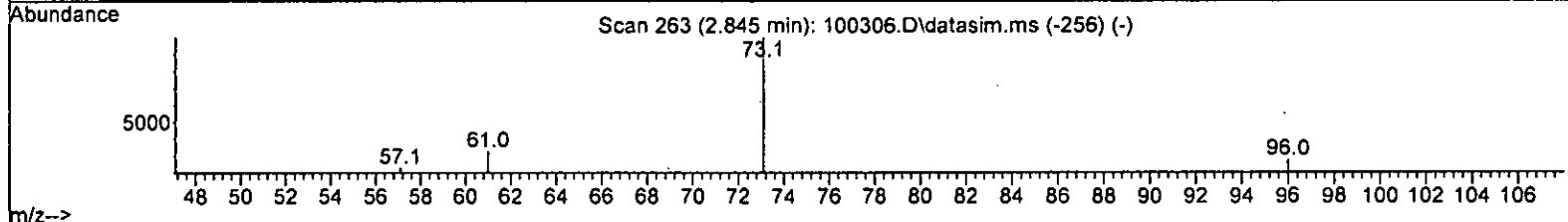
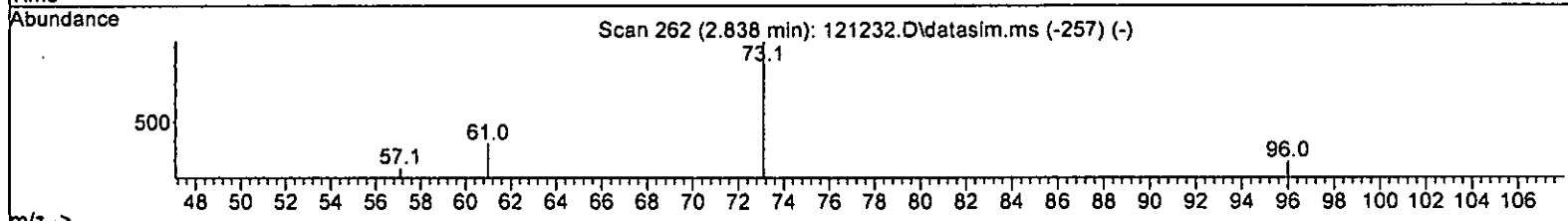
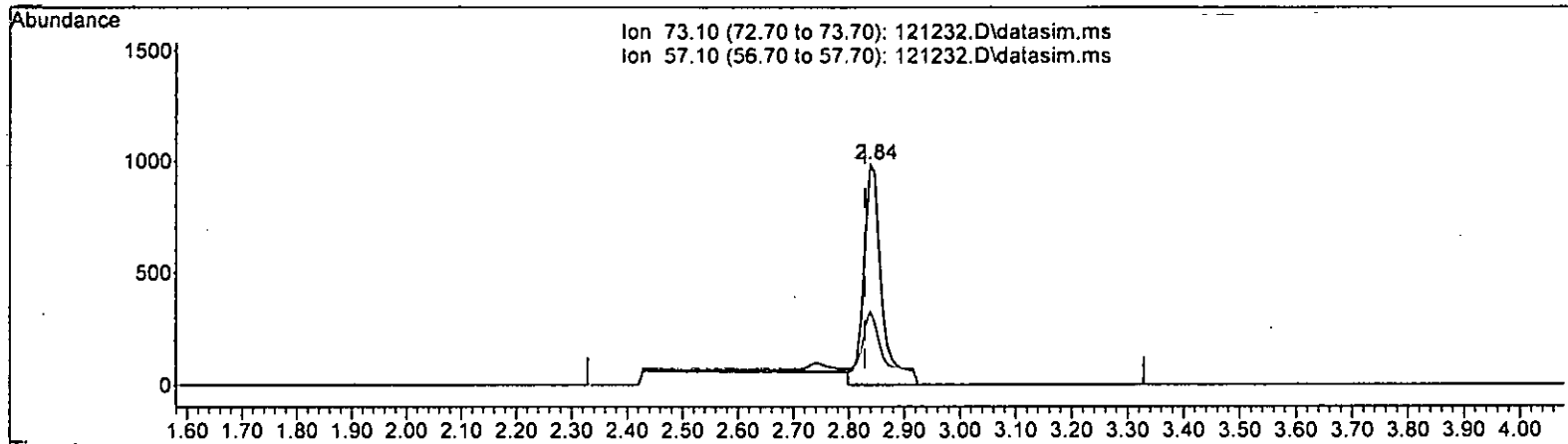
1.767min (-0.023) 0.410 ppb m

response	1723		
Ion	Exp%	Act%	
100.90	100.00	100.00	<i>1715 DM</i>
102.90	62.70	65.40	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAI 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.838min (+ 0.009) 0.620 ppb

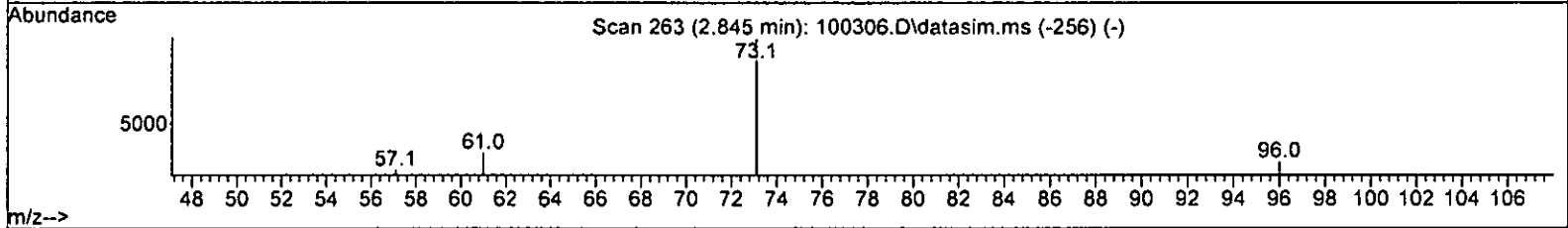
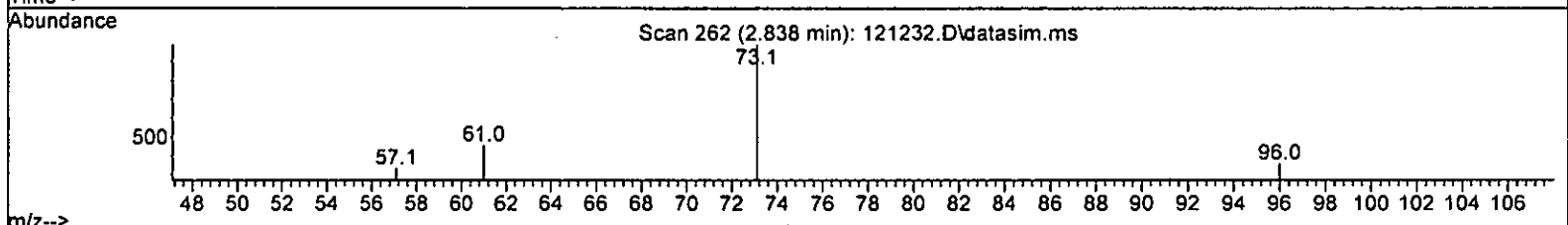
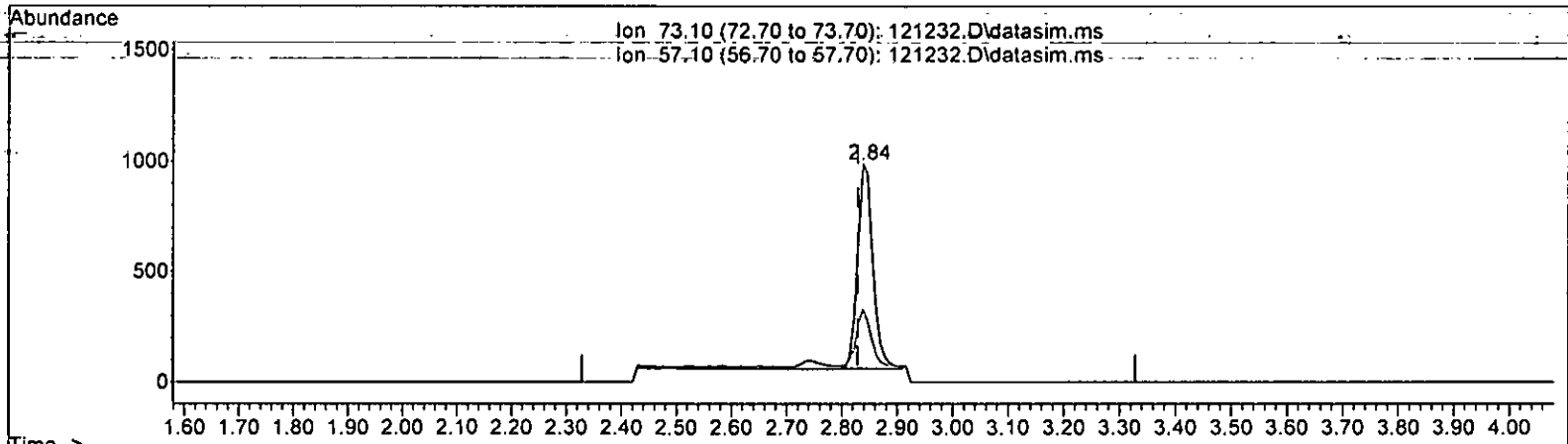
response	2198	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	24.80	33.43
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: 12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121232.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.838min (+ 0.009) 0.499 ppb m

response	1768		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	24.80	33.43	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 LM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-2S3  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.04
3 S Dibromofluoromethane	10.000	9.785	2.1	100	0.00
4 TMP Dichlorodifluoromethane	0.500	0.437	12.6	100	0.00
5 TMP Chloromethane	0.500	0.000	100.0#	0	-1.22#
6 TMP Vinyl chloride	0.500	0.472	5.6	98	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP Chloroethane	0.500	0.499	0.2	86	0.00
9 TMP Trichlorofluoromethane	0.500	0.410	18.0	97	-0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	2.500	2.783	-11.3	100	0.02
12 TMP 1,1-Dichloroethene	0.500	0.494	1.2	100	0.00
13 TMP Hexane	0.500	0.544	-8.8	100	0.00
14 TMP Methylene chloride	-1.000	0.000	0.0	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	2.500	2.373	5.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.500	0.499	0.2	98	0.00
17 TMP trans-1,2-Dichloroethene	0.500	0.485	3.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.500	0.483	3.4	100	0.00
19 TMP 1,1-Dichloroethane	0.500	0.503	-0.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.500	0.417	16.6	100	0.00
21 TMP 2,2-Dichloropropane	0.500	0.564	-12.8	100	0.00
22 TMP cis-1,2-Dichloroethene	0.500	0.503	-0.6	100	0.00
23 TMP Chloroform	0.500	0.565	-13.0	100	0.00
24 TMP 2-Butanone (MEK)	2.500	2.888	-15.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.500	0.553	-10.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.500	0.513	-2.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.500	0.498	0.4	100	0.00
28 TMP 1,1-Dichloropropene	0.500	0.513	-2.6	100	0.00
29 TMP Carbon tetrachloride	0.500	0.453	9.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.615	3.8	100	0.00
31 TMP Benzene	0.500	0.504	-0.8	100	0.00
32 TMP Trichloroethene	0.500	0.493	1.4	100	0.00
33 TMP 1,2-Dichloropropane	0.500	0.563	-12.6	100	0.00
34 TMP Bromodichloromethane	0.500	0.585	-17.0	100	0.00
35 S Toluene-d8	10.000	10.060	-0.6	100	0.00
36 TMP Dibromomethane	0.500	0.552	-10.4	100	0.00
37 TMP 4-Methyl-2-pentanone	2.500	2.469	1.2	100	0.00
38 TMP cis-1,3-Dichloropropene	0.500	0.481	3.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	0.500	0.504	-0.8	100	0.00
41 TMP trans-1,3-Dichloropropene	0.500	0.433	13.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.500	0.495	1.0	100	0.00
43 TMP 2-Hexanone	2.500	2.784	-11.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. RRT Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.500	0.504	-0.8	100	0.00
45 TMP Tetrachloroethene	0.500	0.515	-3.0	100	0.00
46 TMP Dibromochloromethane	0.500	0.467	6.6	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.500	0.504	-0.8	100	0.00
48 TMP Chlorobenzene	0.500	0.488	2.4	100	0.00
49 TMP Ethylbenzene	0.500	0.513	-2.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.500	0.516	-3.2	100	0.00
51 TMP m,p-Xylene	1.000	1.038	-3.8	100	0.00
52 TMP o-Xylene	0.500	0.522	-4.4	100	0.00
53 TMP Styrene	0.500	0.460	8.0	100	0.00
54 TMP Isopropylbenzene	0.500	0.499	0.2	100	0.00
55 TMP Bromoform	0.500	0.462	7.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.129	-1.3	100	0.00
58 TMP n-Propylbenzene	0.500	0.494	1.2	100	0.00
59 TMP Bromobenzene	0.500	0.477	4.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	0.500	0.506	-1.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.500	0.502	-0.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.500	0.463	7.4	100	0.00
63 TMP 2-Chlorotoluene	0.500	0.488	2.4	100	0.00
64 TMP 4-Chlorotoluene	0.500	0.518	-3.6	100	0.00
65 TMP tert-Butylbenzene	0.500	0.496	0.8	100	0.00
66 TMP 1,2,4-Trimethylbenzene	0.500	0.521	-4.2	100	0.00
67 TMP sec-Butylbenzene	0.500	0.497	0.6	100	0.00
68 TMP p-Isopropyltoluene	0.500	0.495	1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	0.500	0.499	0.2	100	0.00
70 TMP 1,4-Dichlorobenzene	0.500	0.506	-1.2	100	0.00
71 TMP 1,2-Dichlorobenzene	0.500	0.545	-9.0	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	-1.000	0.000	0.0	0	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.500	0.469	6.2	100	0.00
74 TMP Hexachlorobutadiene	0.500	0.485	3.0	100	0.00
75 TMP Naphthalene	0.500	0.000	100.0#	0	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.500	0.490	2.0	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.04
3 S Dibromofluoromethane	0.264	0.258	2.3	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.602	12.5	100	0.00
5 TMP Chloromethane	0.883	0.000#	100.0#	0#	-1.22#
6 TMP Vinyl chloride	0.732	0.690	5.7	98	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP Chloroethane	0.336	0.336	0.0	86	0.00
9 TMP Trichlorofluoromethane	0.870	0.713	18.0	97	-0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.041	-10.8	100	0.02
12 TMP 1,1-Dichloroethene	0.240	0.237	1.3	100	0.00
13 TMP Hexane	0.434	0.472	-8.8	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.044	4.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.731	0.3	98	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.264	2.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.900	3.4	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.508	-0.8	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.247	16.6	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.357	-13.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.288	-0.7	100	0.00
23 TMP Chloroform	0.477	0.539	-13.0	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.211	-15.3	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.767	-10.5	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.424	-2.7	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.438	0.5	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.371	-2.5	100	0.00
29 TMP Carbon tetrachloride	0.367	0.333	9.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.058	3.3	100	0.00
31 TMP Benzene	0.999	1.007	-0.8	100	0.00
32 TMP Trichloroethene	0.316	0.311	1.6	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.333	-12.5	100	0.00
34 TMP Bromodichloromethane	0.357	0.418	-17.1	100	0.00
35 S Toluene-d8	0.960	0.966	-0.6	100	0.00
36 TMP Dibromomethane	0.169	0.187	-10.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.052	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.412	4.0	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.864	-0.7	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.419	13.4	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.261	1.1	100	0.00
43 TMP 2-Hexanone	0.335	0.373	-11.3	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.473	-0.6	100	0.00
45 TMP Tetrachloroethene	0.342	0.353	-3.2	100	0.00
46 TMP Dibromochloromethane	0.354	0.330	6.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.330	-0.9	100	0.00
48 TMP Chlorobenzene	0.925	0.902	2.5	100	0.00
49 TMP Ethylbenzene	1.611	1.652	-2.5	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.343	-3.0	100	0.00
51 TMP m,p-Xylene	0.607	0.630	-3.8	100	0.00
52 TMP o-Xylene	0.595	0.621	-4.4	100	0.00
53 TMP Styrene	0.973	0.894	8.1	100	0.00
54 TMP Isopropylbenzene	1.564	1.559	0.3	100	0.00
55 TMP Bromoform	0.252	0.233	7.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.855	-1.3	100	0.00
58 TMP n-Propylbenzene	3.281	3.243	1.2	100	0.00
59 TMP Bromobenzene	0.770	0.735	4.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.473	-1.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.700	-0.3	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.543	7.3	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.895	2.4	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.363	-3.6	100	0.00
65 TMP tert-Butylbenzene	2.141	2.123	0.8	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.581	-4.2	100	0.00
67 TMP sec-Butylbenzene	3.103	3.087	0.5	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.647	0.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.430	0.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.478	-1.2	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.505	-9.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.000#	100.0#	0#	-10.63#
73 TMP 1,2,4-Trichlorobenzene	0.980	0.919	6.2	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.526	3.0	100	0.00
75 TMP Naphthalene	2.597	0.000#	100.0#	0#	-11.68#
76 TMP 1,2,3-Trichlorobenzene	0.904	0.885	2.1	100	0.00

(#) = Out of Range

SPCC's out = 6 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	48353	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38043	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21492	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	12484	9.785	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	97.90%		
30) 1,2-Dichloroethane-d4	4.36	102	2805	9.615	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	96.20%		
35) Toluene-d8	5.98	98	46703	10.060	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	100.60%		
57) 4-Bromofluorobenzene	8.38	95	18379	10.129	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	101.30%		
<b>Target Compounds</b>							
2) Ethanol	1.90	45	83	No Calib			
4) Dichlorodifluoromethane	1.09	85	1455	0.437	ppb	93	
5) Chloromethane	0.00		0	N.D.	d		
6] Vinyl chloride	1.29	62	1669m	0.472	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.60	64	812m	0.499	ppb		
9) Trichlorofluoromethane	1.77	101	1723m	0.410	ppb		
10) 2-Propanol	2.41	45	312	No Calib			
11) Acetone	2.28	58	501	2.783	ppb	#	38
12] 1,1-Dichloroethene	2.19	96	574	0.494	ppb		90
13) Hexane	3.05	57	1141	0.544	ppb		89
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.74	59	530	2.373	ppb	#	31
16] Methyl t-butyl ether (...)	2.84	73	1768m	0.499	ppb		
17] trans-1,2-Dichloroethene	2.83	96	638	0.485	ppb		91
18) Diisopropyl ether (DIPE)	3.24	45	2175	0.483	ppb		91
19] 1,1-Dichloroethane	3.18	63	1227	0.503	ppb		95
20) Ethyl t-butyl ether (E...)	3.54	87	597	0.417	ppb		85
21) 2,2-Dichloropropane	3.67	77	862	0.564	ppb		85
22] cis-1,2-Dichloroethene	3.67	96	697	0.503	ppb		95
23) Chloroform	3.95	83	1303	0.565	ppb		90
24) 2-Butanone (MEK)	3.71	43	2554	2.888	ppb		90
25) t-Amyl methyl ether (T...)	4.50	73	1855	0.553	ppb		94
26] 1,2-Dichloroethane (EDC)	4.42	62	1025	0.513	ppb		98
27] 1,1,1-Trichloroethane	4.08	97	1059	0.498	ppb		96
28) 1,1-Dichloropropene	4.22	75	898	0.513	ppb		88
29) Carbon tetrachloride	4.21	117	804	0.453	ppb		73
31] Benzene	4.39	78	2435	0.504	ppb		98
32] Trichloroethene	4.93	95	753	0.493	ppb		95
33) 1,2-Dichloropropane	5.13	63	806	0.563	ppb	#	91
34) Bromodichloromethane	5.37	83	1011	0.585	ppb		96
36) Dibromomethane	5.23	93	451	0.552	ppb		82

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

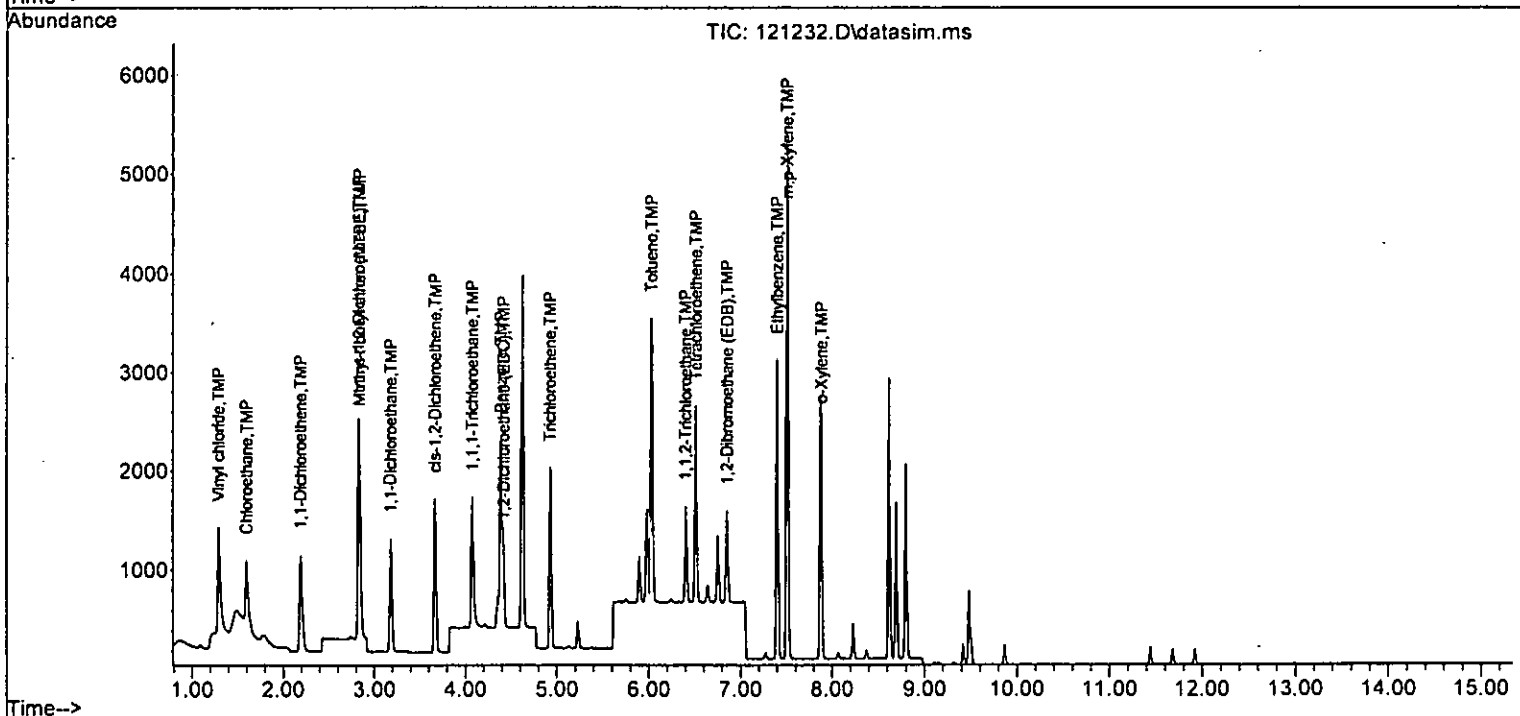
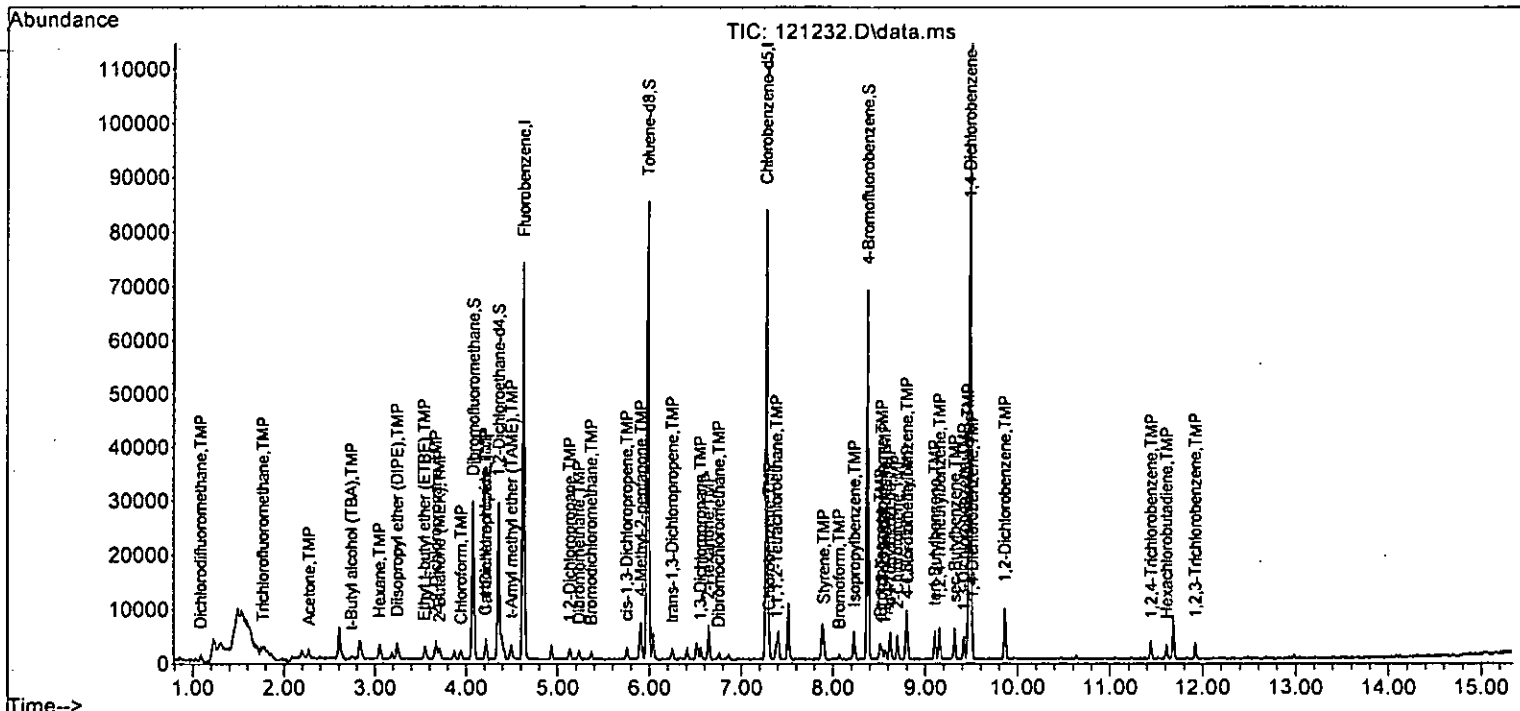
Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	623	2.469	ppb	# 80
38) cis-1,3-Dichloropropene	5.75	75	996	0.481	ppb	84
40) Toluene	6.03	92	1644	0.504	ppb	90
41) trans-1,3-Dichloropropene	6.25	75	797	0.433	ppb	83
42) 1,1,2-Trichloroethane	6.40	83	497	0.495	ppb	98
43) 2-Hexanone	6.64	43	3552	2.784	ppb	89
44) 1,3-Dichloropropane	6.55	76	900	0.504	ppb	86
45) Tetrachloroethene	6.51	164	671	0.515	ppb	98
46) Dibromochloromethane	6.75	129	628	0.467	ppb	82
47) 1,2-Dibromoethane (EDB)	6.85	107	628	0.504	ppb	99
48) Chlorobenzene	7.30	112	1716	0.488	ppb	95
49) Ethylbenzene	7.40	91	3142	0.513	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	653	0.516	ppb	87
51) m,p-Xylene	7.51	106	2398	1.038	ppb	# 67
52) o-Xylene	7.88	106	1181	0.522	ppb	97
53) Styrene	7.90	104	1701	0.460	ppb	84
54) Isopropylbenzene	8.23	105	2966	0.499	ppb	95
55) Bromoform	8.07	173	443	0.462	ppb	71
58) n-Propylbenzene	8.62	91	3485	0.494	ppb	97
59) Bromobenzene	8.52	156	790	0.477	ppb	96
60) 1,3,5-Trimethylbenzene	8.80	105	2657	0.506	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.53	83	752	0.502	ppb	82
62) 1,2,3-Trichloropropane	8.56	75	583	0.463	ppb	87
63) 2-Chlorotoluene	8.70	91	2036	0.488	ppb	86
64) 4-Chlorotoluene	8.81	91	2539	0.518	ppb	95
65) tert-Butylbenzene	9.10	119	2281	0.496	ppb	81
66) 1,2,4-Trimethylbenzene	9.15	105	2774	0.521	ppb	98
67) sec-Butylbenzene	9.32	105	3317	0.497	ppb	99
68) p-Isopropyltoluene	9.46	119	2845	0.495	ppb	95
69) 1,3-Dichlorobenzene	9.42	146	1537	0.499	ppb	95
70) 1,4-Dichlorobenzene	9.51	146	1588	0.506	ppb	99
71) 1,2-Dichlorobenzene	9.86	146	1617	0.545	ppb	94
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	d	
73) 1,2,4-Trichlorobenzene	11.44	180	988	0.469	ppb	86
74) Hexachlorobutadiene	11.61	225	565	0.485	ppb	88
75) Naphthalene	0.00		0	N.D.	d	
76) 1,2,3-Trichlorobenzene	11.92	180	951	0.490	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121232.D  
 Acq On : 13 Dec 2022 12:06 am  
 Operator : LM  
 Sample : 0.5 ppb 8260 ICAL 68-25J  
 Misc : soil/water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS11

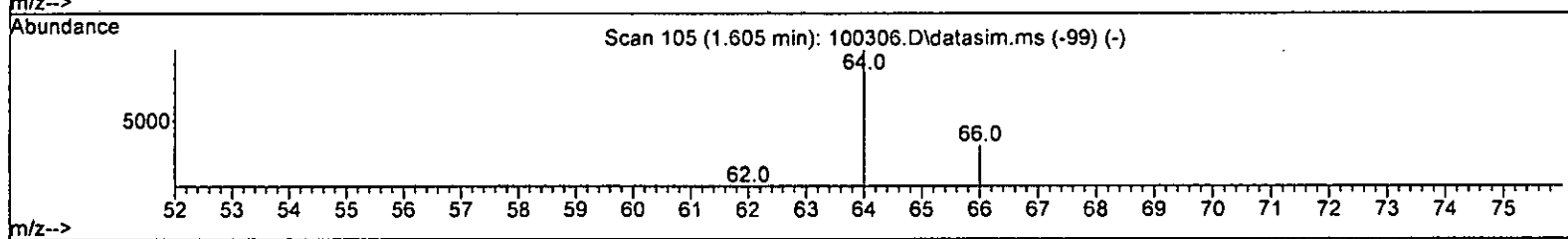
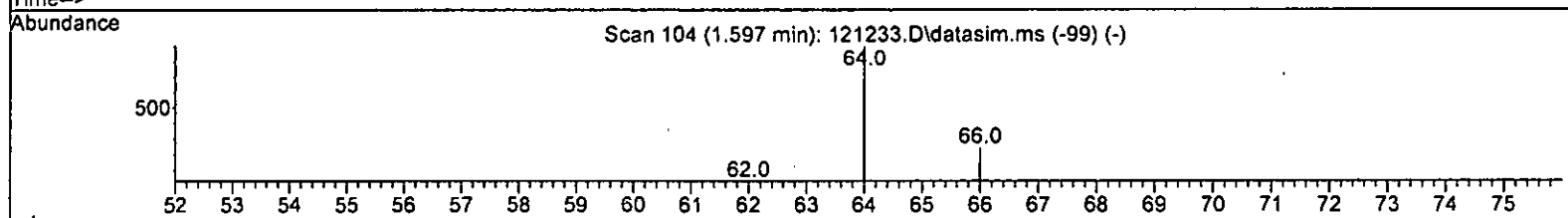
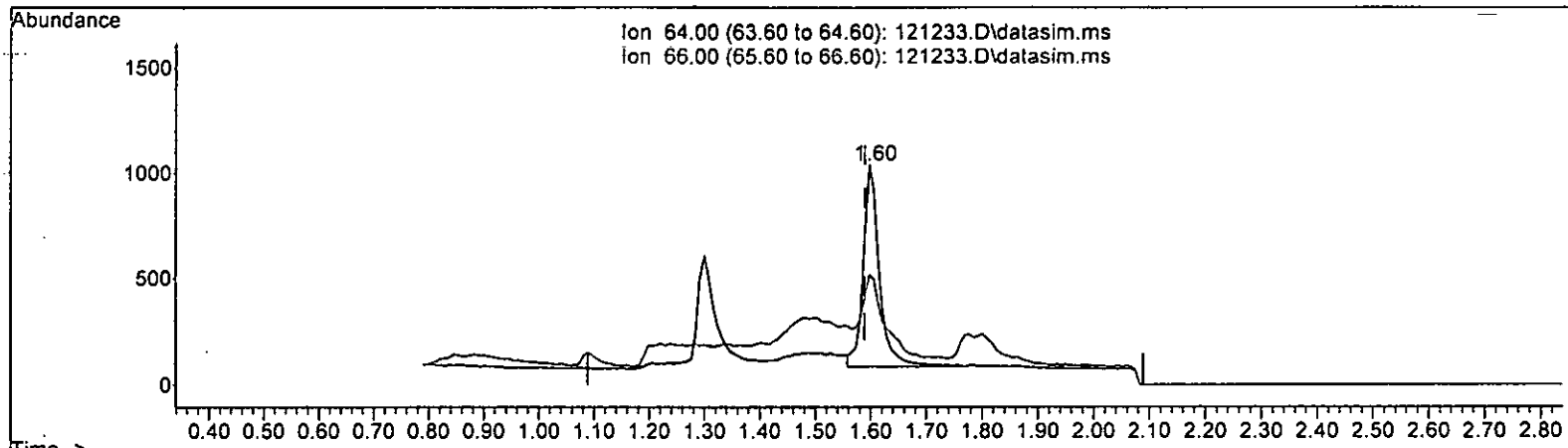
Quant Time: Dec 15 11:21:43 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-2SK  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

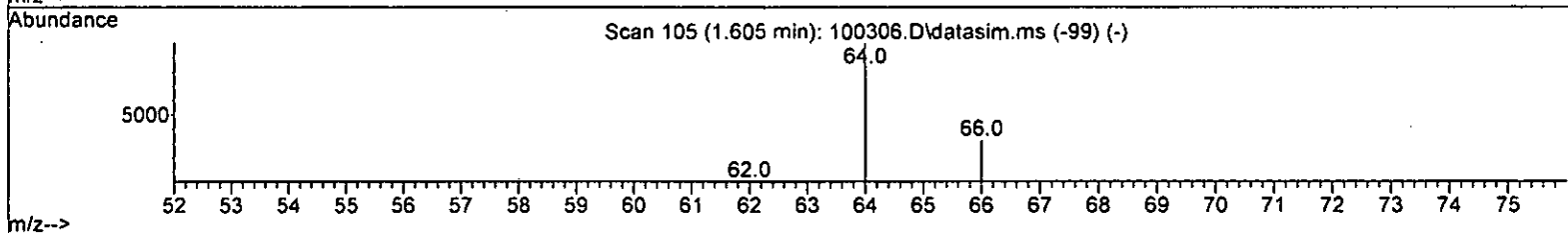
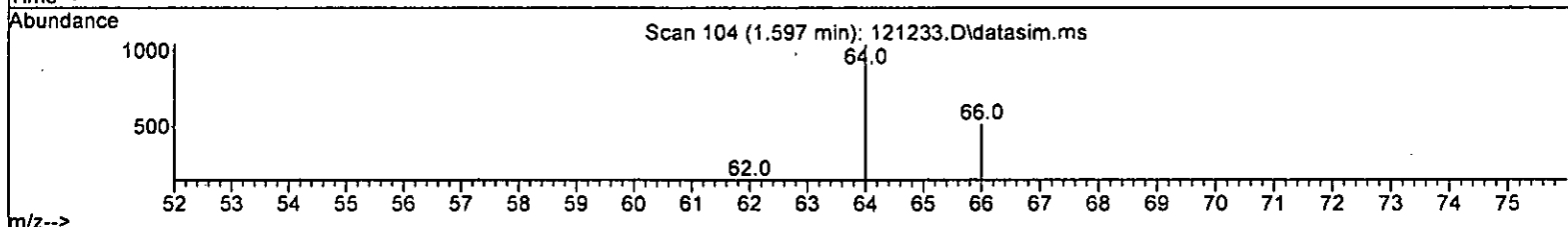
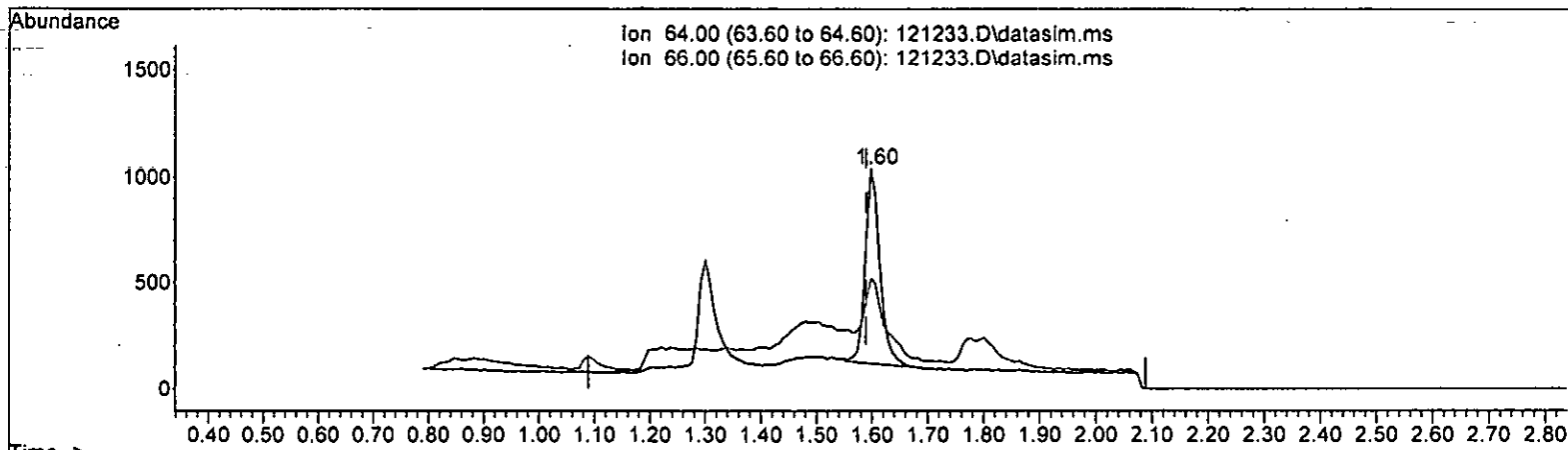
<del>(8) Chloroethane (TMP)</del>			
<del>1.597min (+ 0.008)</del>		<del>1.165 ppb</del>	
<del>response</del>	<del>1918</del>		
<del>Ion</del>	<del>Exp%</del>	<del>Act%</del>	
<del>64.00</del>	<del>100.00</del>	<del>100.00</del>	
<del>66.00</del>	<del>29.60</del>	<del>29.45</del>	
<del>0.00</del>	<del>0.00</del>	<del>0.00</del>	
<del>0.00</del>	<del>0.00</del>	<del>0.00</del>	

*Mis ID*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

(8) Chloroethane (TMP)

1.597min (+ 0.008) 1.018 ppb m

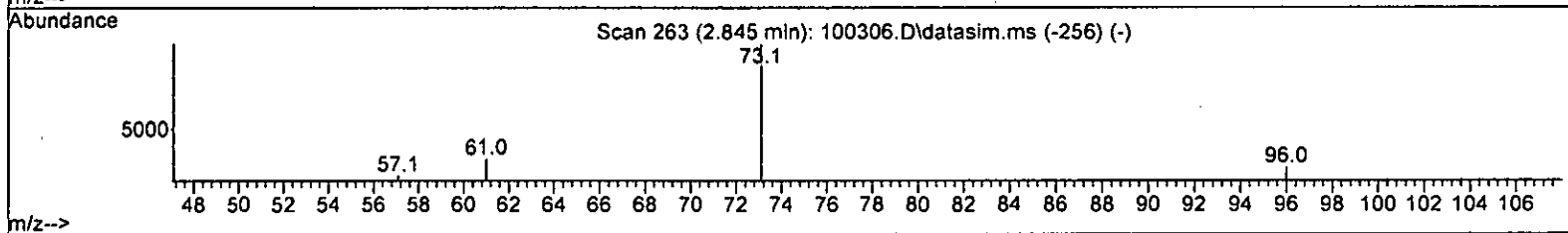
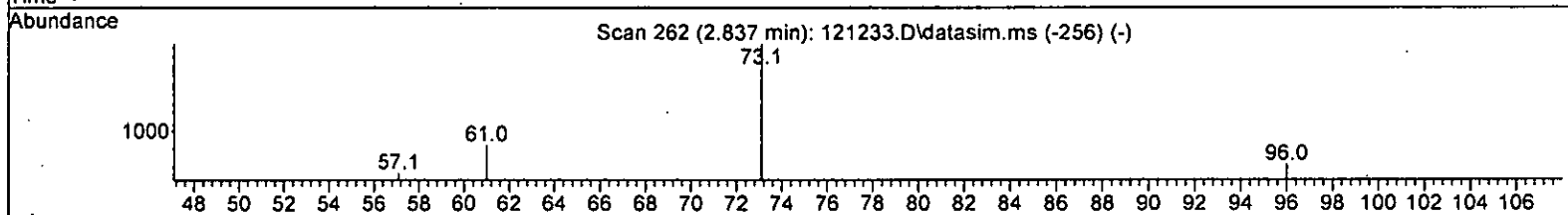
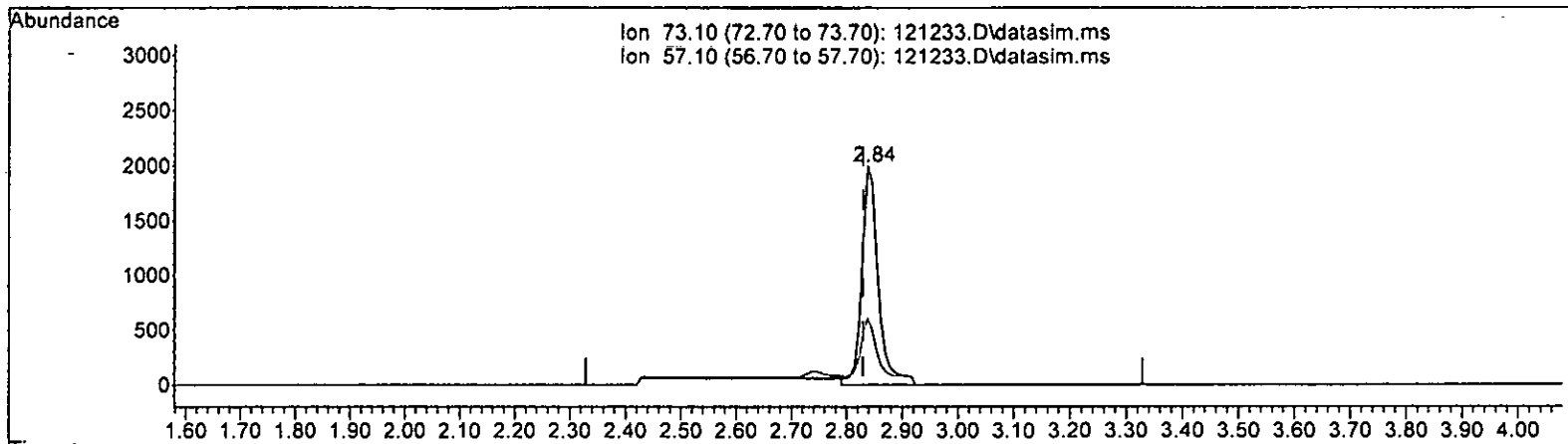
response	1676		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	29.60	49.62	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (+ 0.008) 1/141 ppb

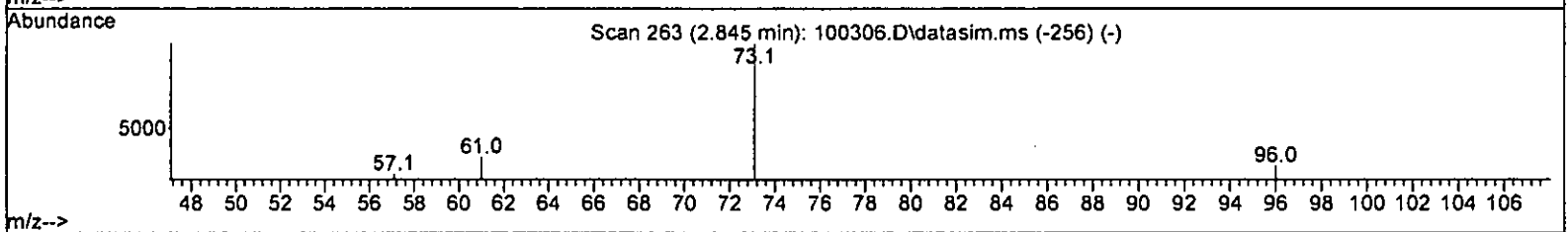
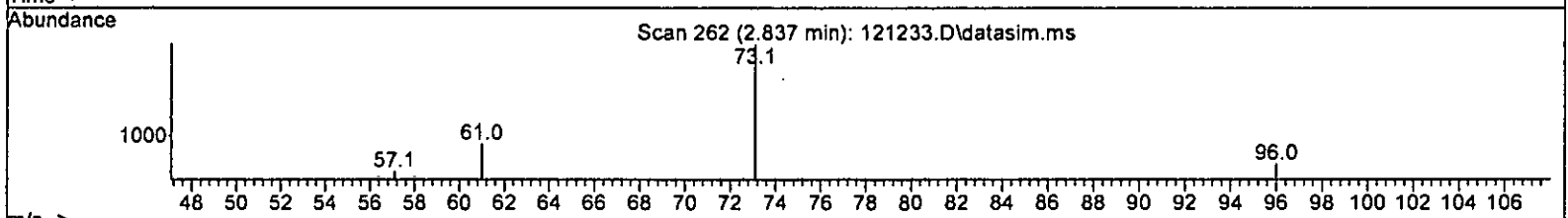
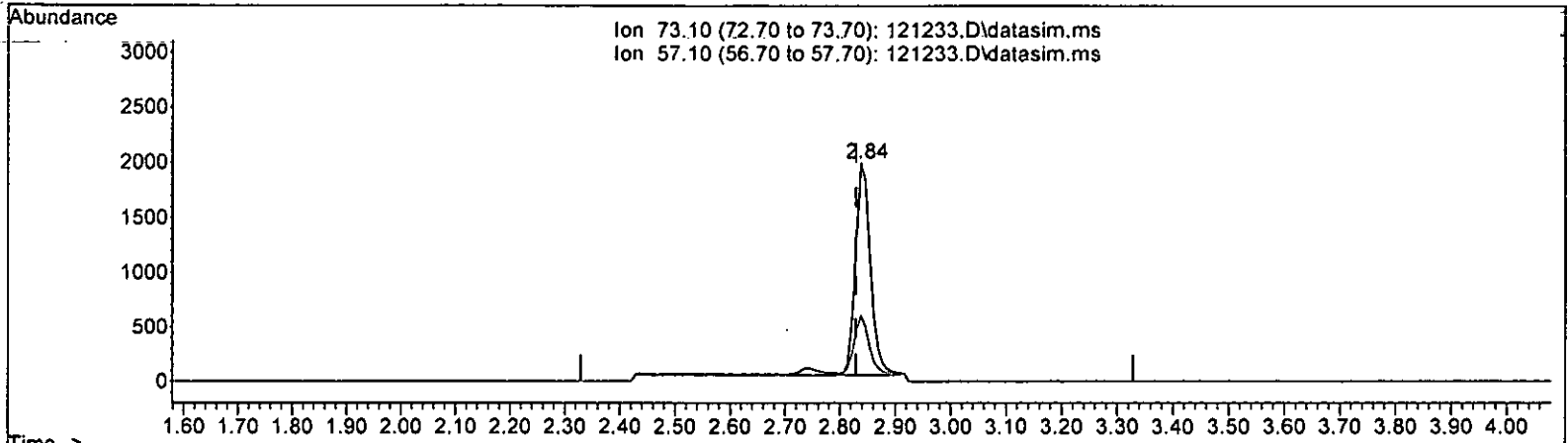
response	4094
Ion	Expt Act%
73.10	100.00 100.00
57.10	24.80 30.16
0.00	0.00 0.00
0.00	0.00 0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M



TIC: 121233.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (+ 0.008) 1.013 ppb m

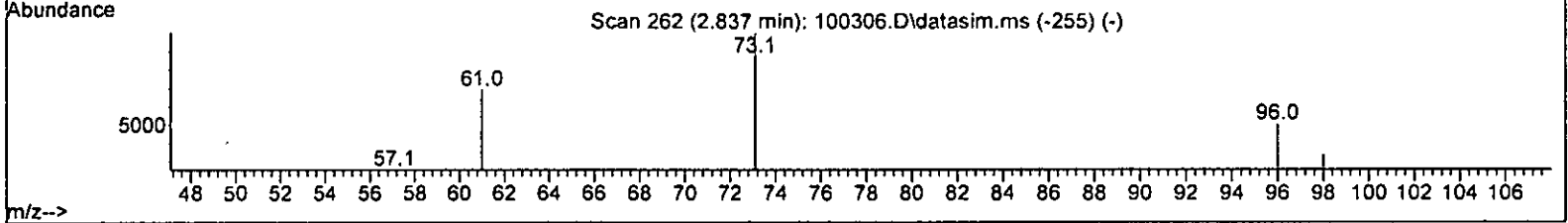
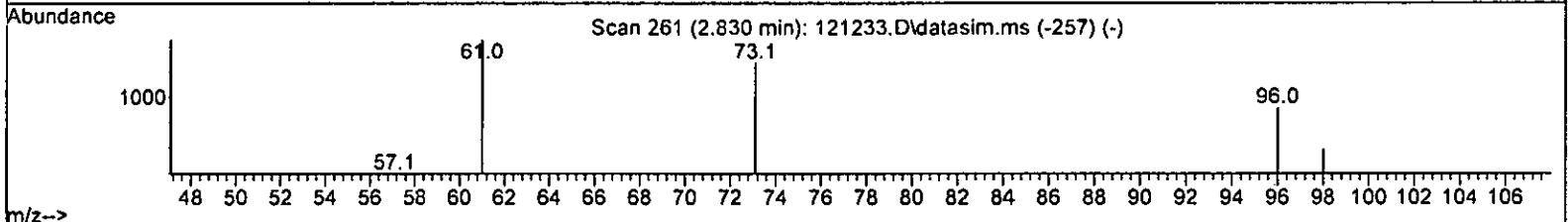
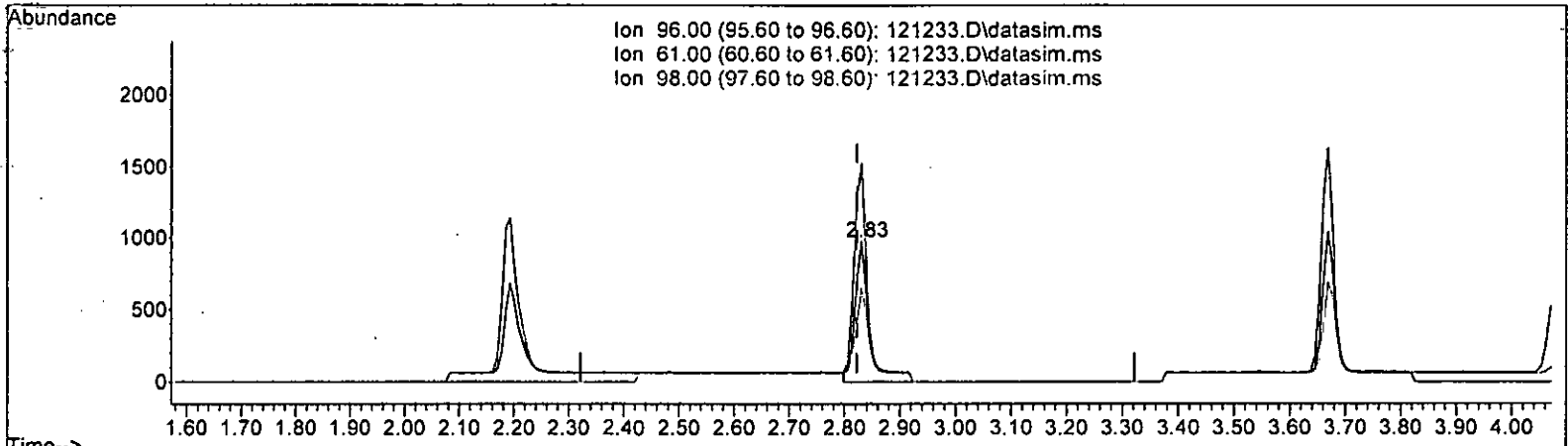
response	3634		
Ion	Exp%	Act%	
73.10	100.00	100.00	<i>17/15 Jan</i>
57.10	24.80	30.16	
0.00	0.00	0.00	
0.00	0.00	0.00	



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.830min (+ 0.008) 1.311 ppb

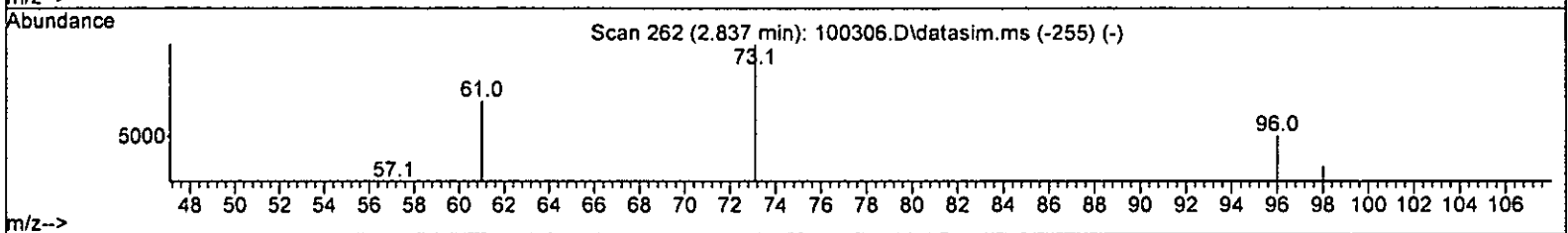
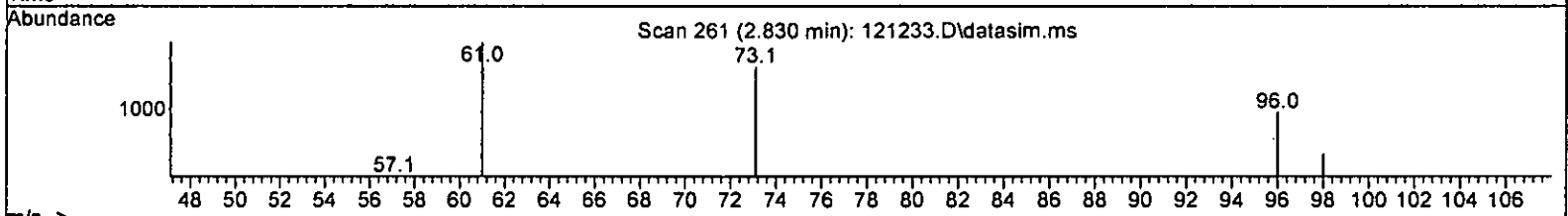
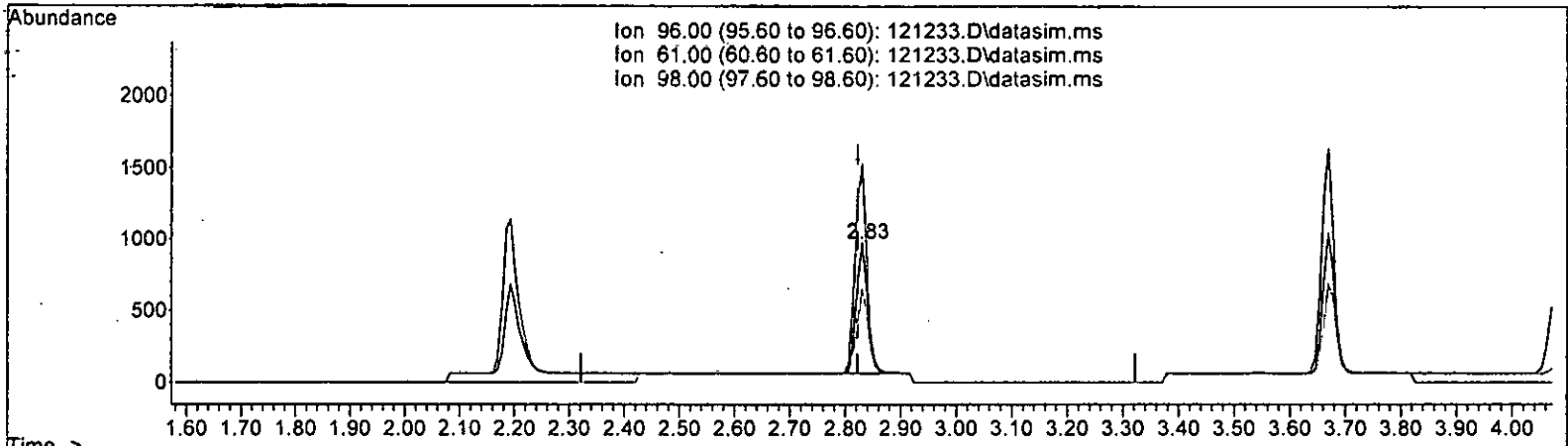
response	1747	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	171.80	156.57
98.00	61.00	66.12
0.00	0.00	0.00

*Handwritten note: 12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121233.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.830min (+ 0.008) 0.975 ppb m

response	1299		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	171.80	156.57	
98.00	61.00	66.12	
0.00	0.00	0.00	

*LM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.801	2.0	100	0.00
4 TMP Dichlorodifluoromethane	1.000	1.066	-6.6	100	0.00
5 TMP Chloromethane	1.000	1.087	-8.7	100	0.00
6 TMP Vinyl chloride	1.000	0.971	2.9	100	0.00
7 TMP Bromomethane	-1.000	0.000	0.0	0	-1.53#
8 TMP Chloroethane	1.000	1.018	-1.8	87	0.00
9 TMP Trichlorofluoromethane	1.000	0.916	8.4	95	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	5.000	5.627	-12.5	100	0.00
12 TMP 1,1-Dichloroethene	1.000	0.996	0.4	100	0.00
13 TMP Hexane	1.000	1.093	-9.3	100	0.00
14 TMP Methylene chloride	1.000	0.000	100.0#	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	5.000	5.536	-10.7	100	0.02
16 TMP Methyl t-butyl ether (MTBE)	1.000	1.013	-1.3	99	0.00
17 TMP trans-1,2-Dichloroethene	1.000	0.975	2.5	74	0.00
18 TMP Diisopropyl ether (DIPE)	1.000	0.990	1.0	100	0.00
19 TMP 1,1-Dichloroethane	1.000	1.026	-2.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	1.000	1.065	-6.5	100	0.00
21 TMP 2,2-Dichloropropane	1.000	1.022	-2.2	100	0.00
22 TMP cis-1,2-Dichloroethene	1.000	1.024	-2.4	100	0.00
23 TMP Chloroform	1.000	1.025	-2.5	100	0.00
24 TMP 2-Butanone (MEK)	5.000	5.403	-8.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	1.000	0.980	2.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	1.000	1.026	-2.6	100	0.00
27 TMP 1,1,1-Trichloroethane	1.000	1.014	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	1.000	1.042	-4.2	100	0.00
29 TMP Carbon tetrachloride	1.000	0.994	0.6	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.143	8.6	100	0.00
31 TMP Benzene	1.000	1.034	-3.4	100	0.00
32 TMP Trichloroethene	1.000	1.012	-1.2	100	0.00
33 TMP 1,2-Dichloropropane	1.000	1.001	-0.1	100	0.00
34 TMP Bromodichloromethane	1.000	0.910	9.0	100	0.00
35 S Toluene-d8	10.000	9.995	0.1	100	0.00
36 TMP Dibromomethane	1.000	0.956	4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	5.000	5.267	-5.3	100	0.00
38 TMP cis-1,3-Dichloropropene	1.000	0.906	9.4	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	1.000	1.021	-2.1	100	0.00
41 TMP trans-1,3-Dichloropropene	1.000	1.116	-11.6	100	0.00
42 TMP 1,1,2-Trichloroethane	1.000	1.038	-3.8	100	0.00
43 TMP 2-Hexanone	5.000	5.197	-3.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-2SK  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	1.000	1.072	-7.2	100	0.00
45 TMP Tetrachloroethene	1.000	1.027	-2.7	100	0.00
46 TMP Dibromochloromethane	1.000	0.967	3.3	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	1.000	1.029	-2.9	100	0.00
48 TMP Chlorobenzene	1.000	1.020	-2.0	100	0.00
49 TMP Ethylbenzene	1.000	1.031	-3.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	1.000	1.031	-3.1	100	0.00
51 TMP m,p-Xylene	2.000	2.075	-3.8	100	0.00
52 TMP o-Xylene	1.000	1.030	-3.0	100	0.00
53 TMP Styrene	1.000	1.055	-5.5	100	0.00
54 TMP Isopropylbenzene	1.000	1.008	-0.8	100	0.00
55 TMP Bromoform	1.000	1.022	-2.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.937	0.6	100	0.00
58 TMP n-Propylbenzene	1.000	1.092	-9.2	100	0.00
59 TMP Bromobenzene	1.000	1.058	-5.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	1.000	1.011	-1.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	1.000	1.072	-7.2	100	0.00
62 TMP 1,2,3-Trichloropropane	1.000	0.960	4.0	100	0.00
63 TMP 2-Chlorotoluene	1.000	1.009	-0.9	100	0.00
64 TMP 4-Chlorotoluene	1.000	0.999	0.1	100	0.00
65 TMP tert-Butylbenzene	1.000	1.034	-3.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	1.000	1.005	-0.5	100	0.00
67 TMP sec-Butylbenzene	1.000	1.013	-1.3	100	0.00
68 TMP p-Isopropyltoluene	1.000	1.011	-1.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.000	1.013	-1.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.000	1.068	-6.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.000	1.033	-3.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	1.000	0.994	0.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	1.000	0.997	0.3	100	0.00
74 TMP Hexachlorobutadiene	1.000	0.921	7.9	100	0.00
75 TMP Naphthalene	1.000	1.347	-34.7#	100	0.00
76 TMP 1,2,3-Trichlorobenzene	1.000	0.902	9.8	100	0.00

12/15 DM

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.259	1.9	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.734	-6.7	100	0.00
5 TMP Chloromethane	0.883	0.960	-8.7	100	0.00
6 TMP Vinyl chloride	0.732	0.710	3.0	100	0.00
7 TMP Bromomethane	0.368	0.000#	100.0#	0#	-1.53#
8 TMP Chloroethane	0.336	0.343	-2.1	87	0.00
9 TMP Trichlorofluoromethane	0.870	0.797	8.4	95	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.042	-13.5	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.240	0.0	100	0.00
13 TMP Hexane	0.434	0.474	-9.2	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.051	-10.9	100	0.02
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.743	-1.4	99	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.265	2.6	74	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.923	1.0	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.517	-2.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.315	-6.4	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.323	-2.2	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.293	-2.4	100	0.00
23 TMP Chloroform	0.477	0.489	-2.5	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.198	-8.2	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.680	2.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.424	-2.7	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.446	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.377	-4.1	100	0.00
29 TMP Carbon tetrachloride	0.367	0.365	0.5	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	100	0.00
31 TMP Benzene	0.999	1.033	-3.4	100	0.00
32 TMP Trichloroethene	0.316	0.319	-0.9	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.297	-0.3	100	0.00
34 TMP Bromodichloromethane	0.357	0.325	9.0	100	0.00
35 S Toluene-d8	0.960	0.960	0.0	100	0.00
36 TMP Dibromomethane	0.169	0.161	4.7	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.055	-5.8	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.388	9.6	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.876	-2.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.540	-11.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.274	-3.8	100	0.00
43 TMP 2-Hexanone	0.335	0.349	-4.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.504	-7.2	100	0.00
45 TMP Tetrachloroethene	0.342	0.351	-2.6	100	0.00
46 TMP Dibromochloromethane	0.354	0.342	3.4	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.337	-3.1	100	0.00
48 TMP Chlorobenzene	0.925	0.944	-2.1	100	0.00
49 TMP Ethylbenzene	1.611	1.661	-3.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.343	-3.0	100	0.00
51 TMP m,p-Xylene	0.607	0.630	-3.8	100	0.00
52 TMP o-Xylene	0.595	0.613	-3.0	100	0.00
53 TMP Styrene	0.973	1.026	-5.4	100	0.00
54 TMP Isopropylbenzene	1.564	1.577	-0.8	100	0.00
55 TMP Bromoform	0.252	0.258	-2.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.839	0.6	100	0.00
58 TMP n-Propylbenzene	3.281	3.582	-9.2	100	0.00
59 TMP Bromobenzene	0.770	0.815	-5.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.471	-1.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.748	-7.2	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.562	4.1	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.958	-0.9	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.279	0.1	100	0.00
65 TMP tert-Butylbenzene	2.141	2.214	-3.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.488	-0.5	100	0.00
67 TMP sec-Butylbenzene	3.103	3.143	-1.3	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.701	-1.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.453	-1.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.560	-6.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.426	-3.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.154	0.6	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.977	0.3	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.499	7.9	100	0.00
75 TMP Naphthalene	2.597	3.498	-34.7#	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.816	9.7	100	0.00

(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	48931	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38342	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	20582	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12654	9.801	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.00%	
30) 1,2-Dichloroethane-d4	4.36	102	2699	9.143	ppb	0.00	
Spiked Amount	10.000	Range	79 - 128	Recovery	=	91.40%	
35) Toluene-d8	5.98	98	46954	9.995	ppb	0.00	
Spiked Amount	10.000	Range	84 - 121	Recovery	=	99.90%	
57) 4-Bromofluorobenzene	8.38	95	17267	9.937	ppb	0.00	
Spiked Amount	10.000	Range	84 - 116	Recovery	=	99.40%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	3590	1.066	ppb		87
5) Chloromethane	1.23	50	4697	1.087	ppb		96
6] Vinyl chloride	1.30	62	3475	0.971	ppb		94
7) Bromomethane	0.00		0	N.D.	d		
8] Chloroethane	1.60	64	1676m	1.018	ppb		
9) Trichlorofluoromethane	1.80	101	3899	0.916	ppb		76
10) 2-Propanol	2.40	45	331	No Calib			
11) Acetone	2.27	58	1025	5.627	ppb		98
12] 1,1-Dichloroethene	2.19	96	1172	0.996	ppb		92
13) Hexane	3.05	57	2319	1.093	ppb		94
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.75	59	1251	5.536	ppb		98
16] Methyl t-butyl ether (...)	2.84	73	3634m	1.013	ppb		
17] trans-1,2-Dichloroethene	2.83	96	1299m	0.975	ppb		
18) Diisopropyl ether (DIPE)	3.25	45	4515	0.990	ppb		98
19] 1,1-Dichloroethane	3.18	63	2531	1.026	ppb		96
20) Ethyl t-butyl ether (E...)	3.55	87	1543	1.065	ppb		84
21) 2,2-Dichloropropane	3.67	77	1580	1.022	ppb		98
22] cis-1,2-Dichloroethene	3.67	96	1435	1.024	ppb		97
23) Chloroform	3.94	83	2393	1.025	ppb		93
24) 2-Butanone (MEK)	3.71	43	4835	5.403	ppb		98
25) t-Amyl methyl ether (T...)	4.50	73	3327	0.980	ppb		96
26] 1,2-Dichloroethane (EDC)	4.42	62	2075	1.026	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	2183	1.014	ppb		97
28) 1,1-Dichloropropene	4.22	75	1846	1.042	ppb		86
29) Carbon tetrachloride	4.21	117	1786	0.994	ppb		89
31] Benzene	4.39	78	5055	1.034	ppb		98
32] Trichloroethene	4.93	95	1563	1.012	ppb		97
33) 1,2-Dichloropropane	5.14	63	1451	1.001	ppb	#	91
34) Bromodichloromethane	5.37	83	1591	0.910	ppb		90
36) Dibromomethane	5.22	93	790	0.956	ppb		81

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

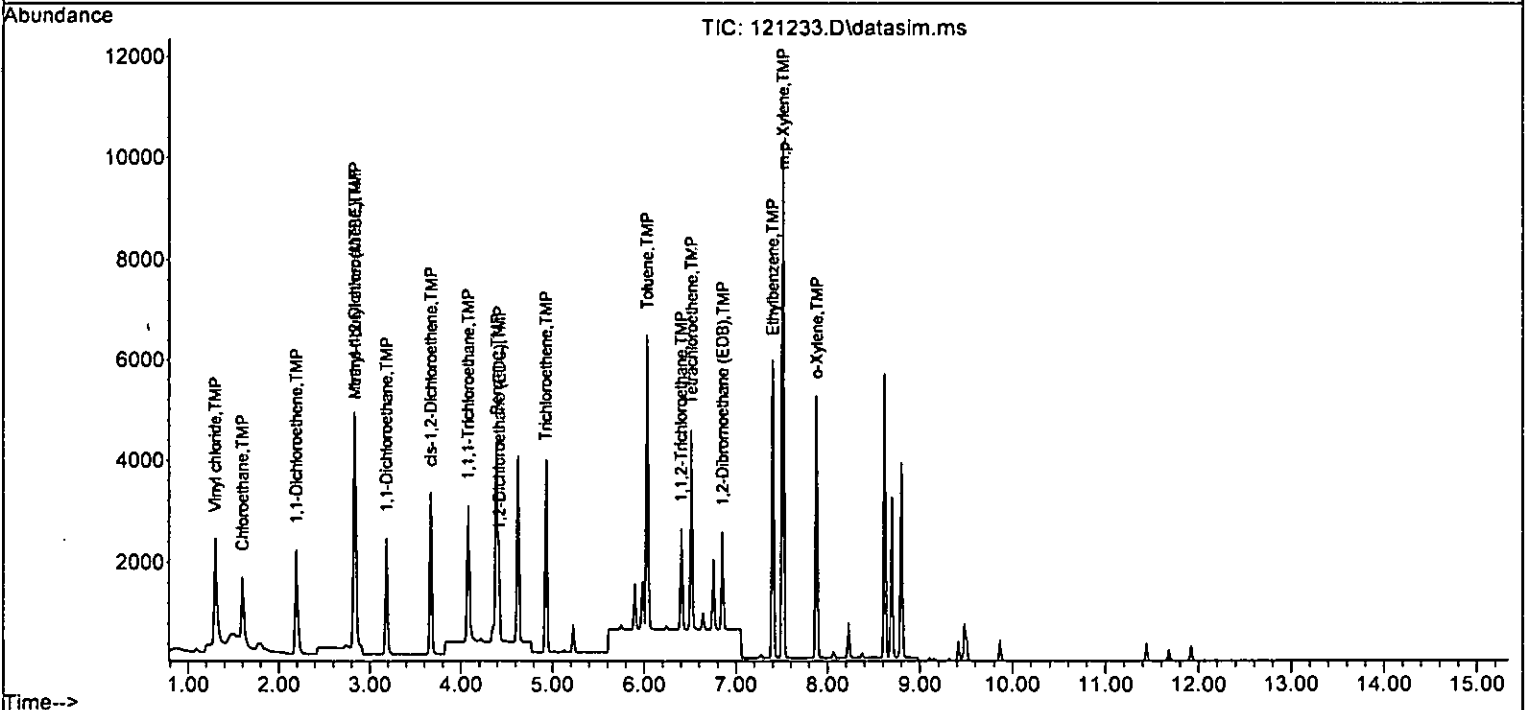
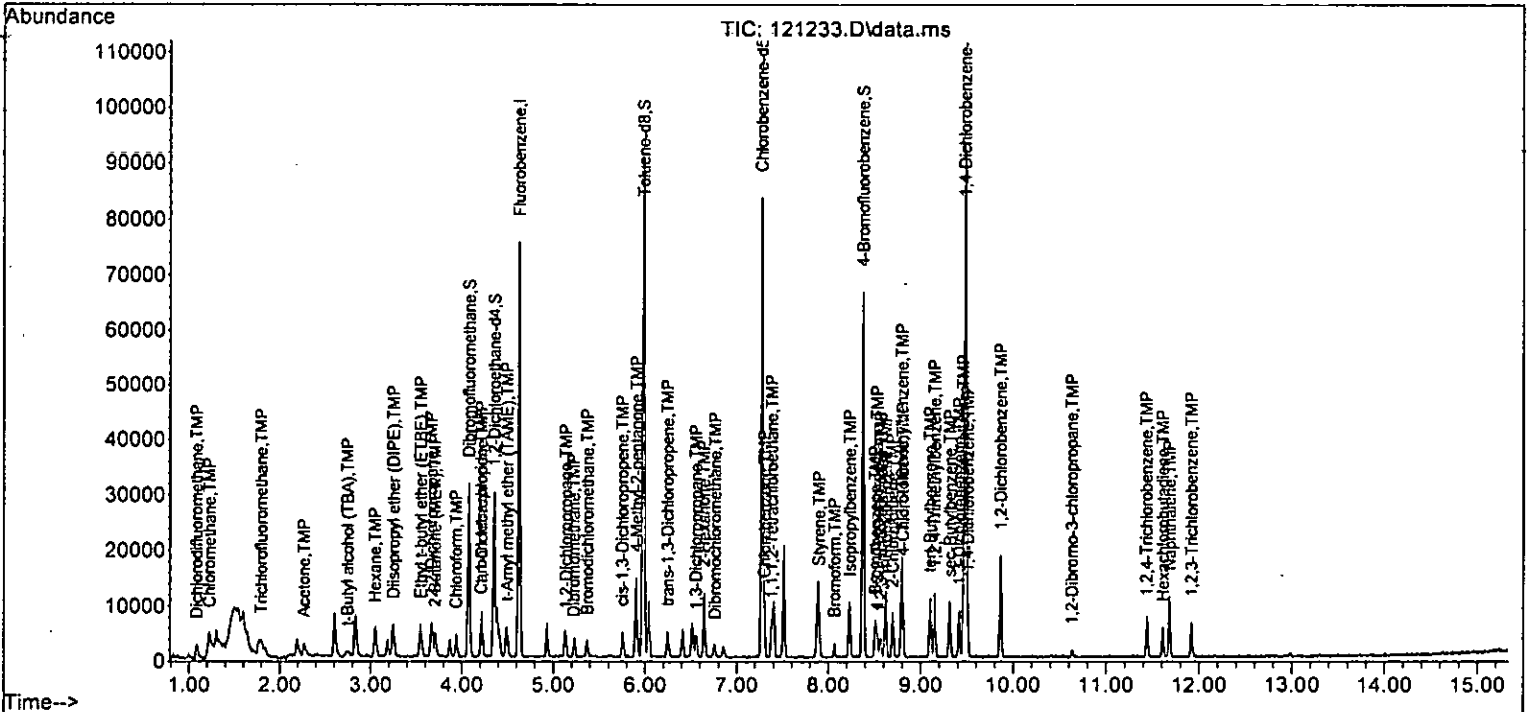
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	1345	5.267	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	1900	0.906	ppb	93
40] Toluene	6.03	92	3357	1.021	ppb	89
41) trans-1,3-Dichloropropene	6.25	75	2070	1.116	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	1050	1.038	ppb	99
43) 2-Hexanone	6.64	43	6683	5.197	ppb	97
44) 1,3-Dichloropropane	6.55	76	1931	1.072	ppb	99
45] Tetrachloroethene	6.51	164	1347	1.027	ppb	99
46) Dibromochloromethane	6.76	129	1311	0.967	ppb	87
47] 1,2-Dibromoethane (EDB)	6.85	107	1292	1.029	ppb	99
48) Chlorobenzene	7.30	112	3619	1.020	ppb	97
49] Ethylbenzene	7.40	91	6368	1.031	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	1316	1.031	ppb	92
51] m,p-Xylene	7.52	106	4831	2.075	ppb	99
52] o-Xylene	7.88	106	2349	1.030	ppb	99
53) Styrene	7.90	104	3934	1.055	ppb	73
54) Isopropylbenzene	8.23	105	6046	1.008	ppb	98
55) Bromoform	8.07	173	988	1.022	ppb	86
58) n-Propylbenzene	8.63	91	7373	1.092	ppb	98
59) Bromobenzene	8.51	156	1678	1.058	ppb	90
60) 1,3,5-Trimethylbenzene	8.80	105	5085	1.011	ppb	87
61) 1,1,2,2-Tetrachloroethane	8.53	83	1540	1.072	ppb	81
62) 1,2,3-Trichloropropane	8.57	75	1157	0.960	ppb	80
63) 2-Chlorotoluene	8.70	91	4030	1.009	ppb	93
64) 4-Chlorotoluene	8.81	91	4690	0.999	ppb	98
65) tert-Butylbenzene	9.10	119	4557	1.034	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	5120	1.005	ppb	98
67) sec-Butylbenzene	9.32	105	6469	1.013	ppb	99
68) p-Isopropyltoluene	9.46	119	5560	1.011	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	2990	1.013	ppb	94
70) 1,4-Dichlorobenzene	9.51	146	3210	1.068	ppb	95
71) 1,2-Dichlorobenzene	9.86	146	2935	1.033	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.63	75	317	0.994	ppb #	56
73) 1,2,4-Trichlorobenzene	11.44	180	2010	0.997	ppb	91
74) Hexachlorobutadiene	11.61	225	1027	0.921	ppb	93
75) Naphthalene	11.68	128	7199	1.347	ppb	97
76) 1,2,3-Trichlorobenzene	11.92	180	1679	0.902	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121233.D  
 Acq On : 13 Dec 2022 12:29 am  
 Operator : LM  
 Sample : 1 ppb 8260 ICAL 68-25K  
 Misc : soil/water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS11

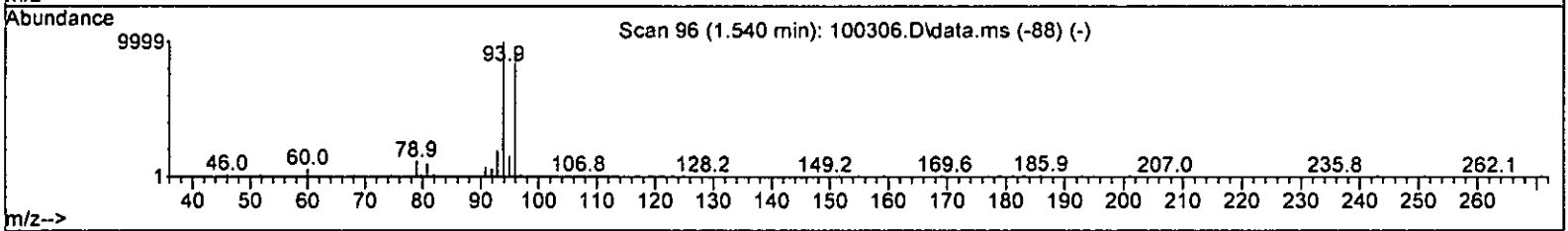
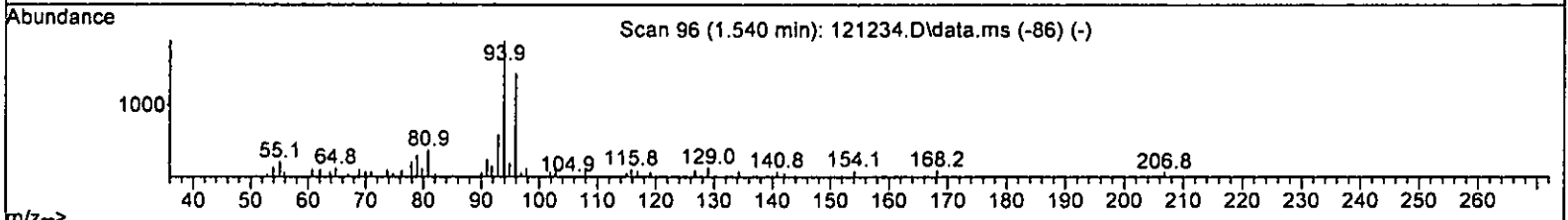
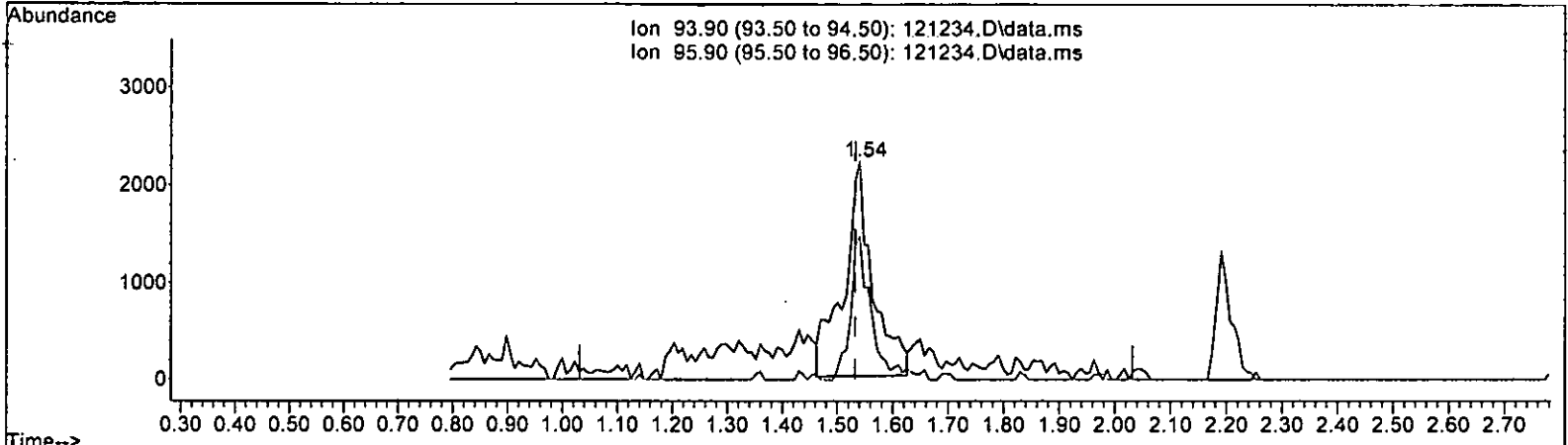
Quant Time: Dec 15 11:21:45 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

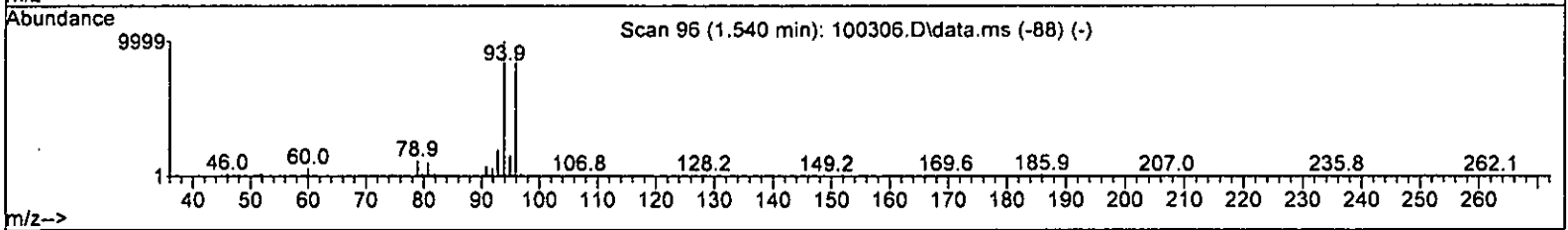
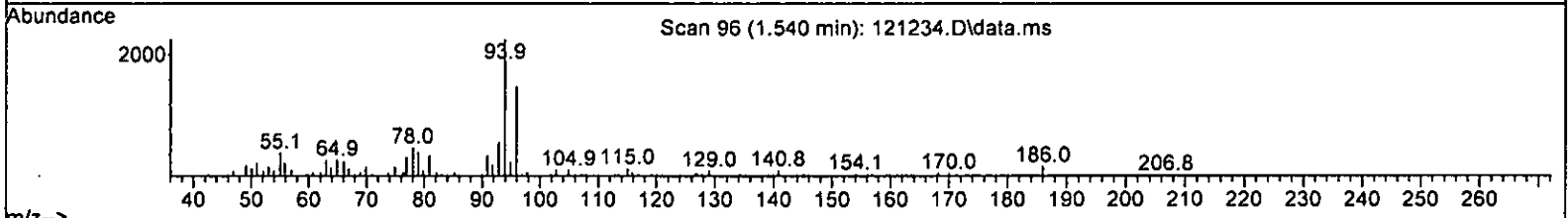
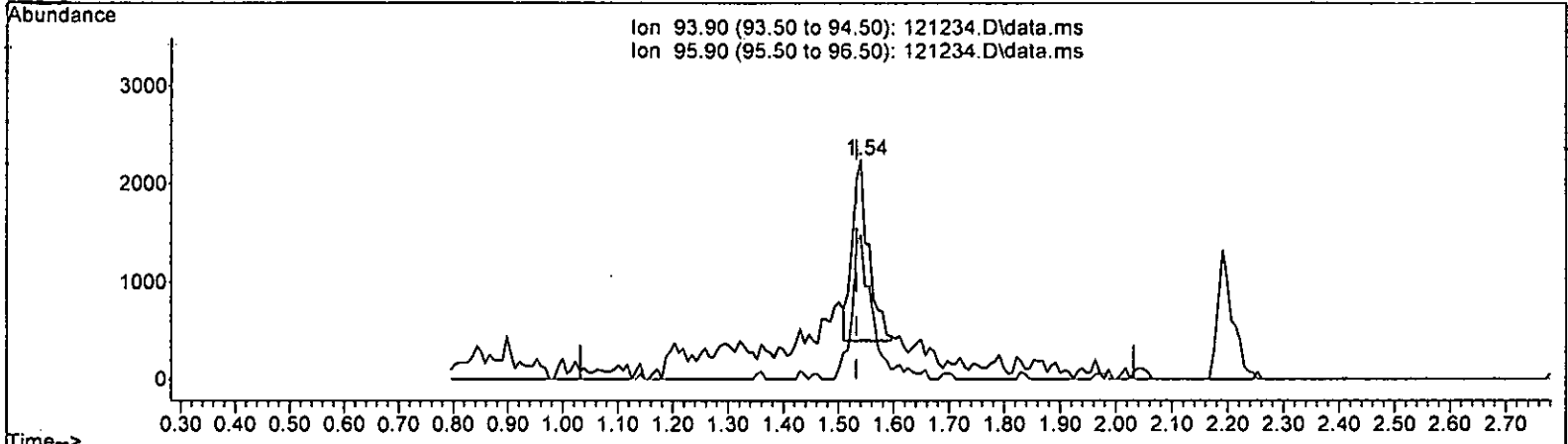
<del>(7) Bromomethane (TMP)</del>		
1.540min (+ 0.008)	4.516 ppb	
response	8121	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	59.20	72.34
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(7) Bromomethane (TMP)

1.540min (+ 0.008) 2.113 ppb m

response 3800

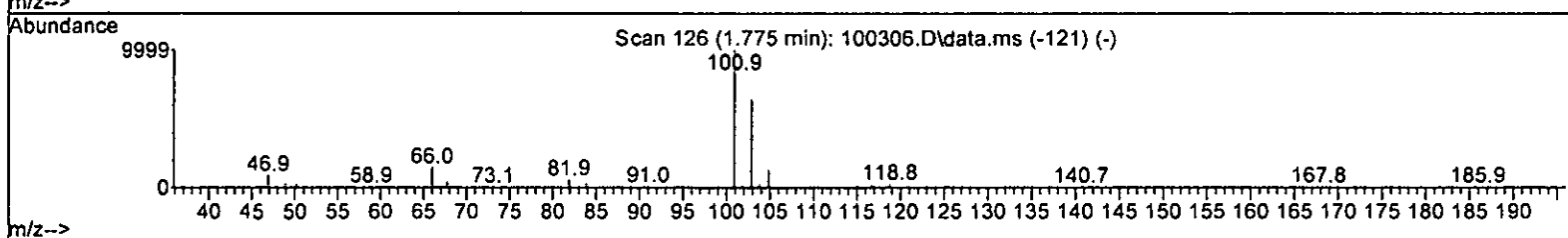
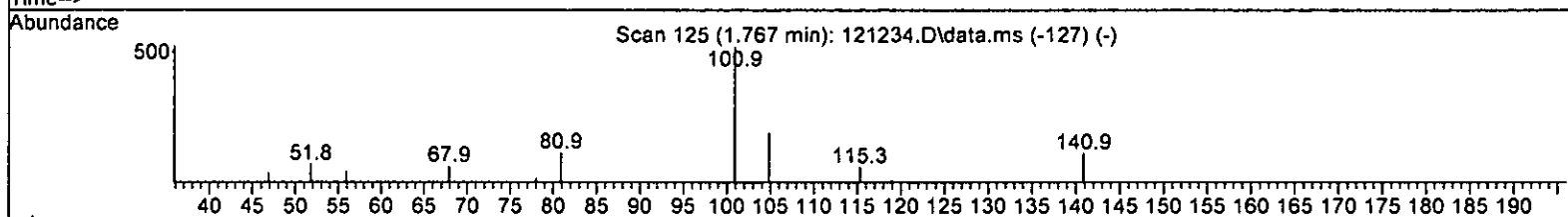
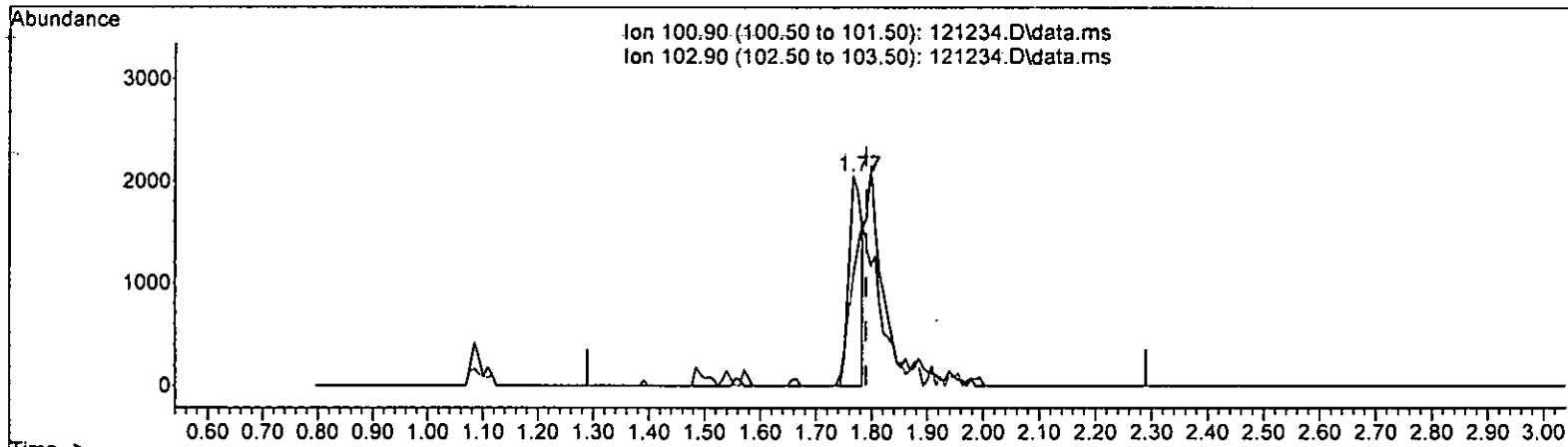
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	65.78
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 JLM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(9) Trichlorofluoromethane (TMP)

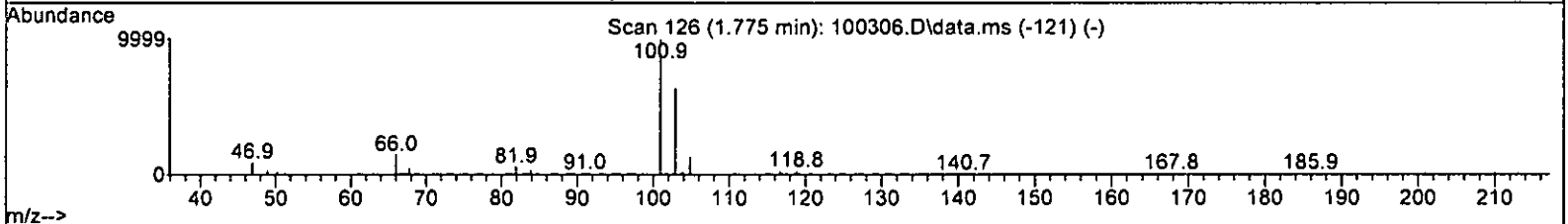
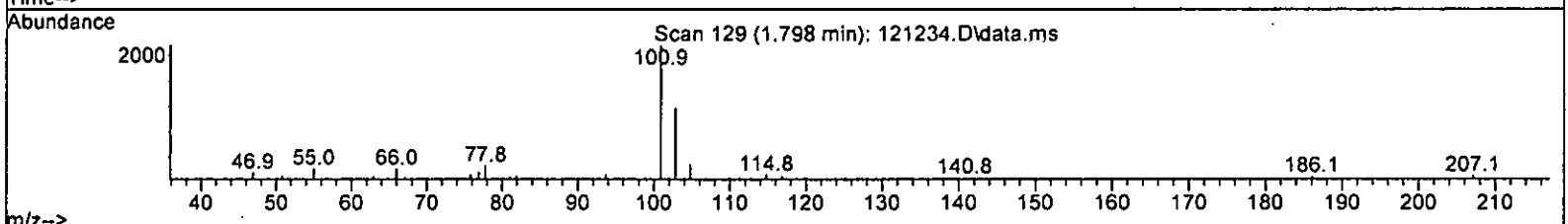
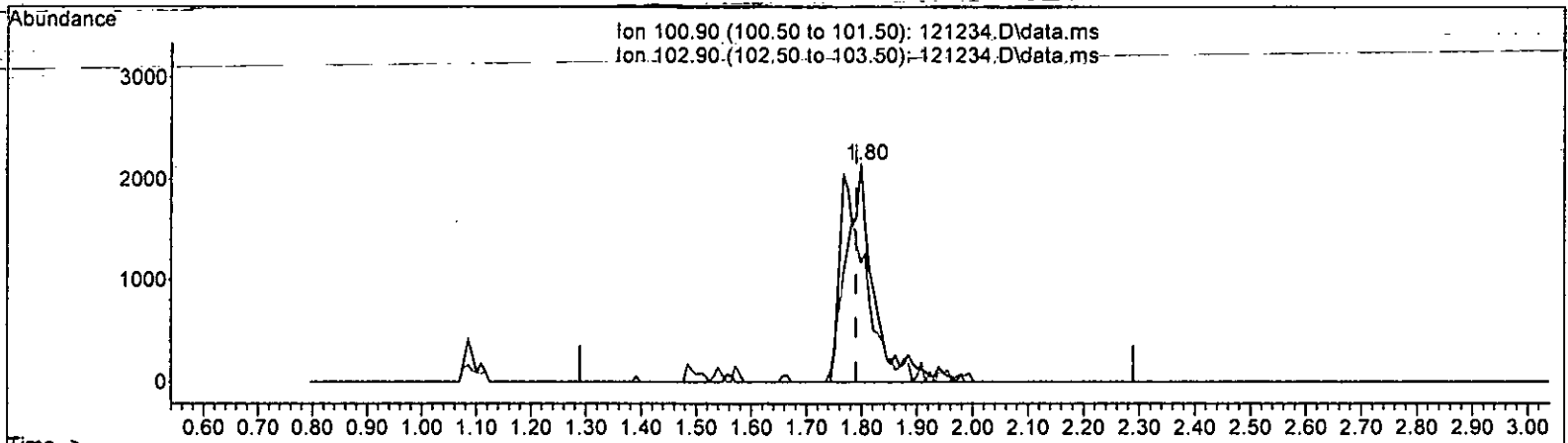
1.767min (-0.023) 0.758 ppb

response	3219		
Ion	Exp%	Act%	
100.90	100.00	100.00	<i>17.5 DM</i>
102.90	62.70	51.68	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.798min (+ 0.008) 1.945 ppb m

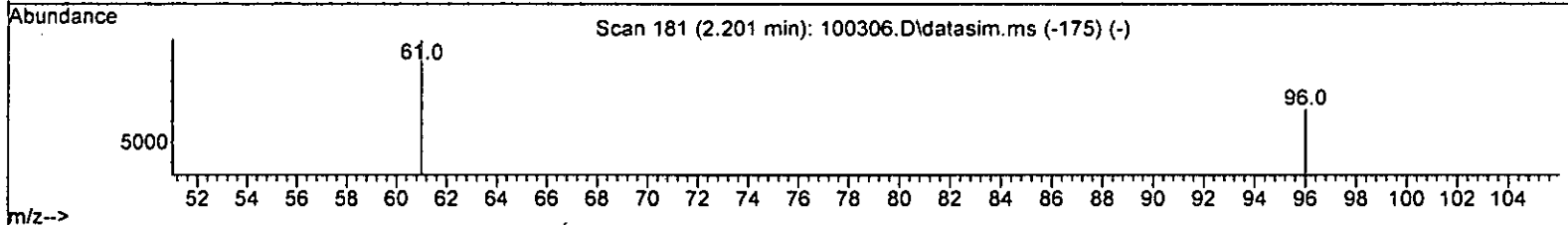
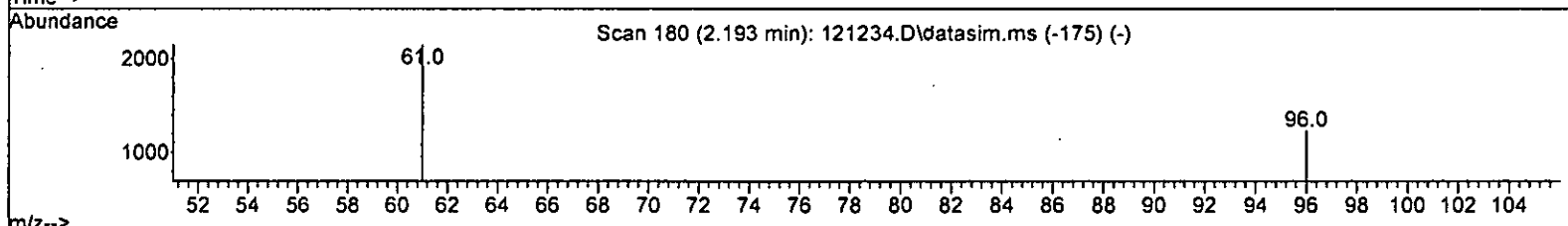
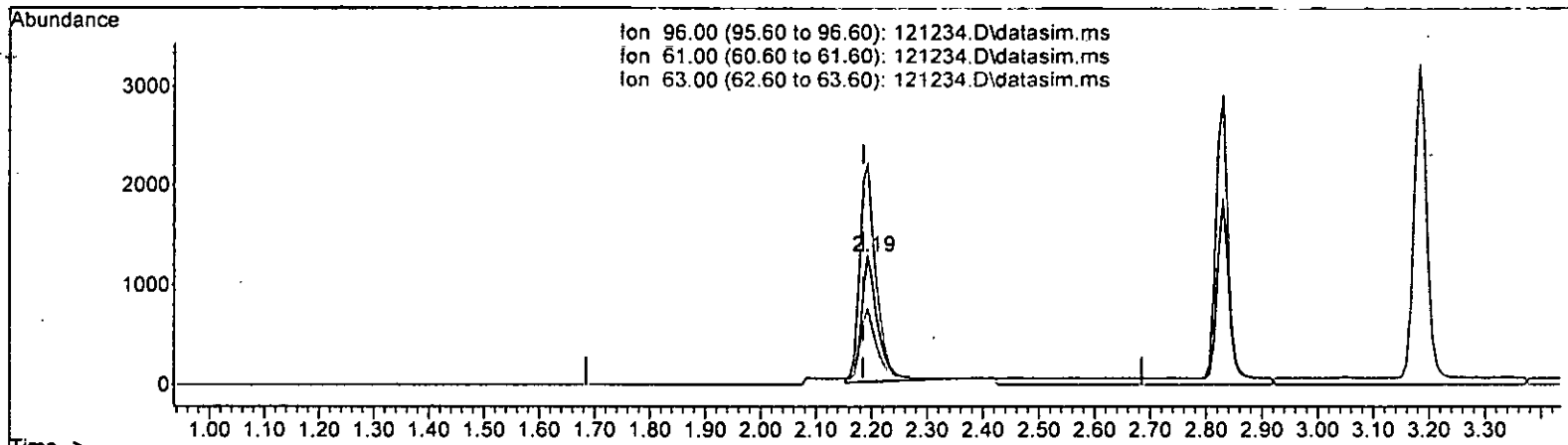
response	8259	
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	62.70	54.14
0.00	0.00	0.00
0.00	0.00	0.00

12/15 PM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.193min (+ 0.008) 2.183 ppb

response 2562

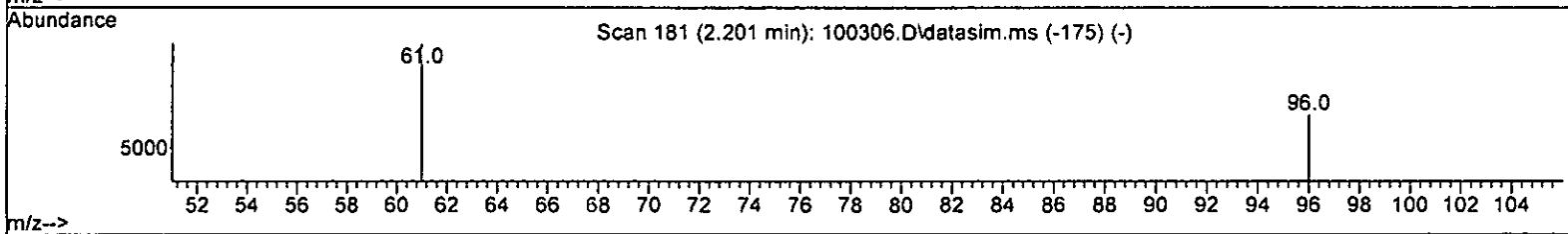
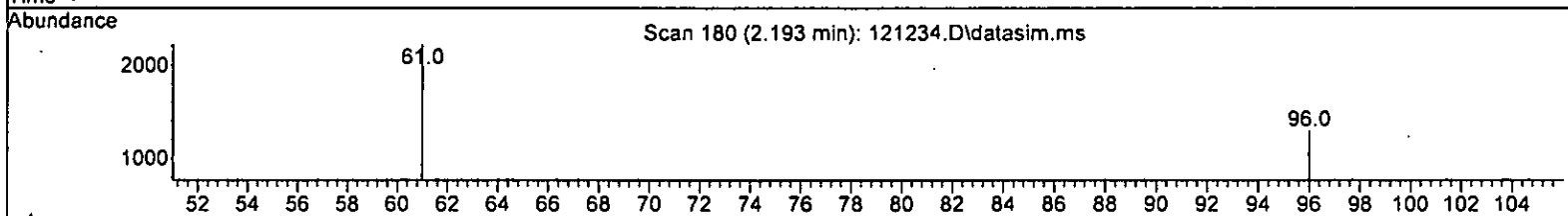
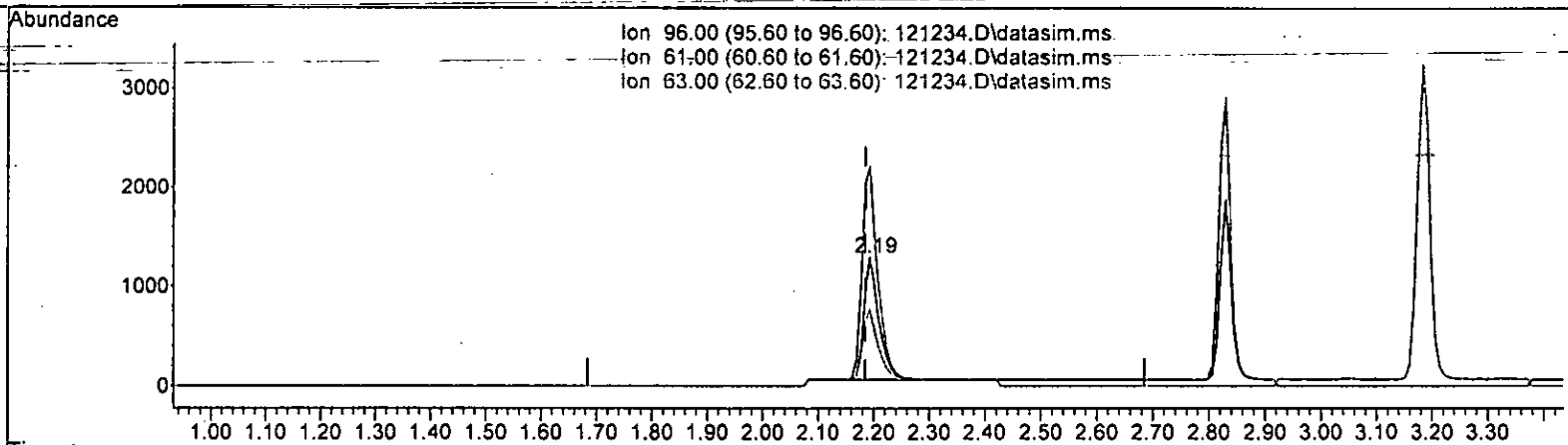
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	160.00	174.86
63.00	53.70	56.71
0.00	0.00	0.00

*17/15 DM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(12) 1,1-Dichloroethene (TMP)

2.193min (+ 0.008) 1.963 ppb m

response 2304

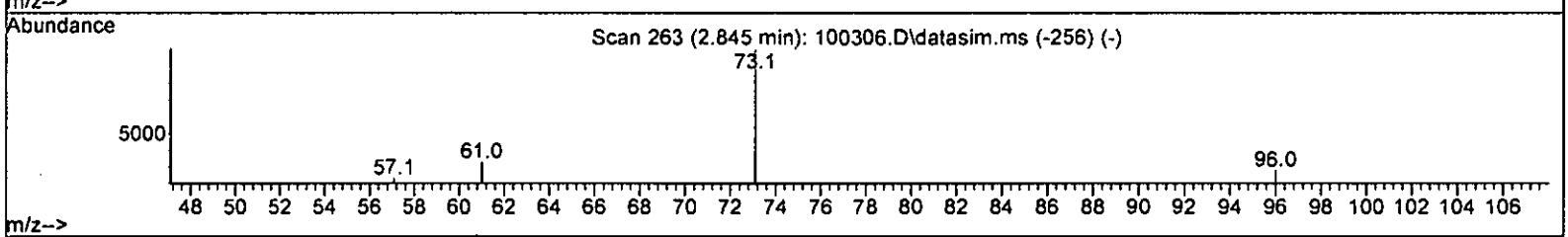
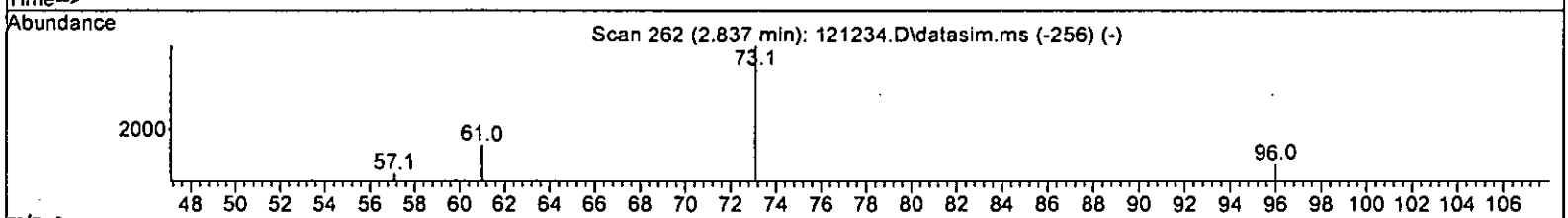
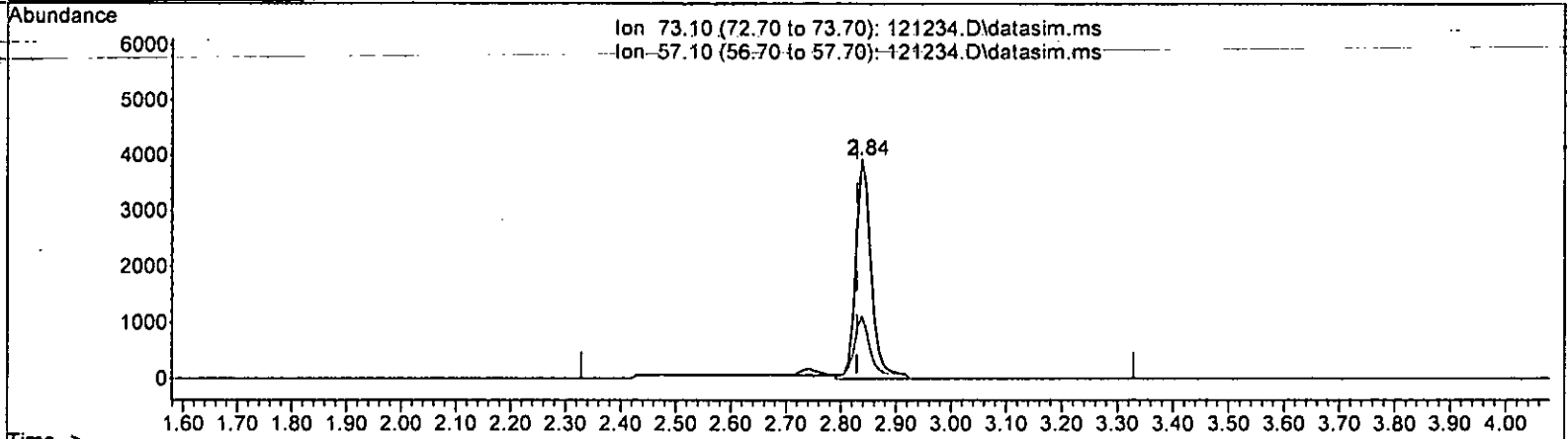
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	160.00	171.31
63.00	53.70	59.16
0.00	0.00	0.00

12/15 LM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (+ 0.008) 2.124 ppb

response	7637	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	24.80	28.28
0.00	0.00	0.00
0.00	0.00	0.00

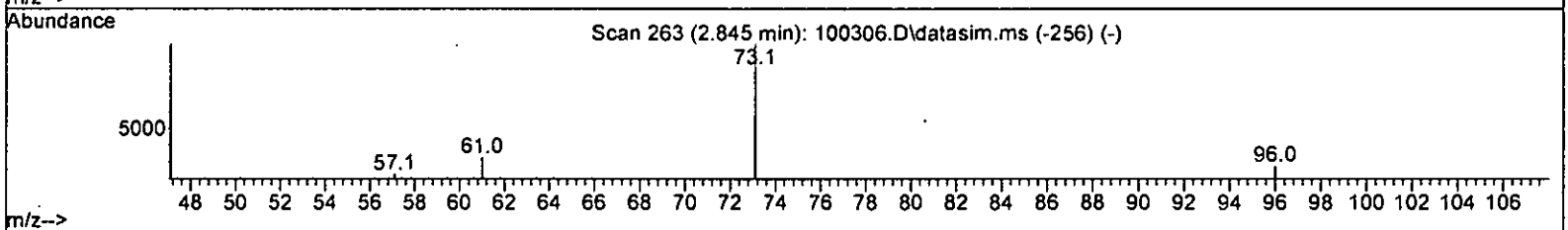
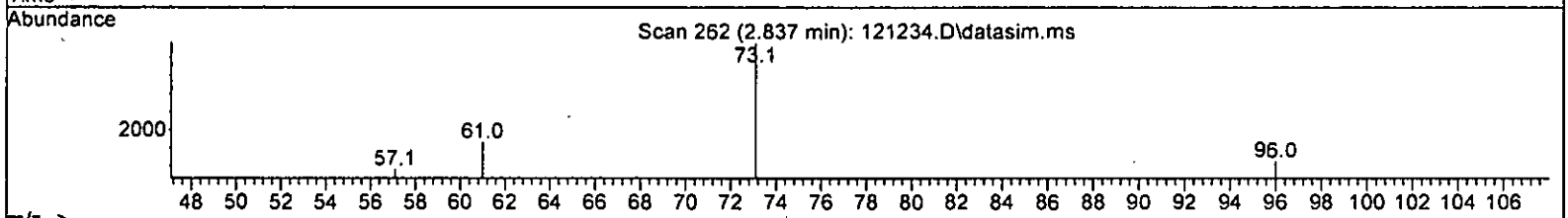
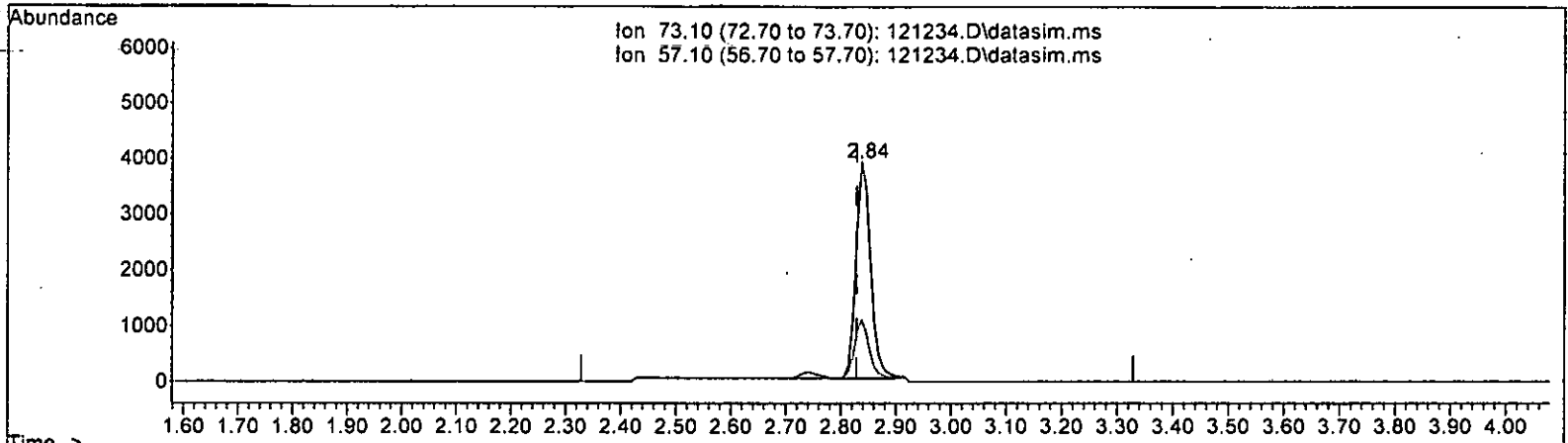
12/15 LM



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.837min (+ 0.008) 2.008 ppb m

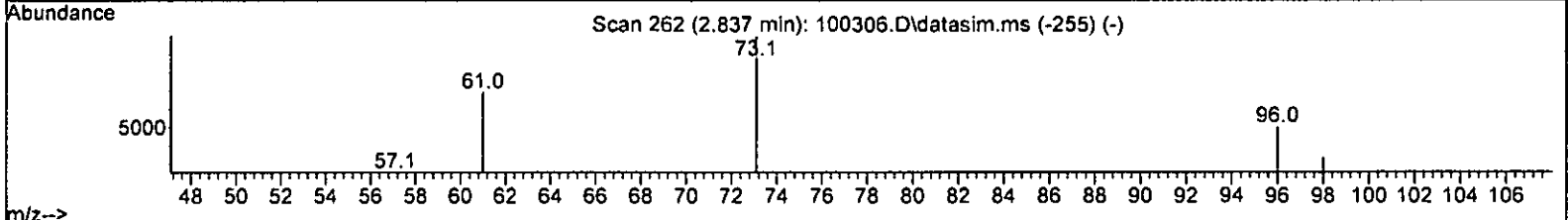
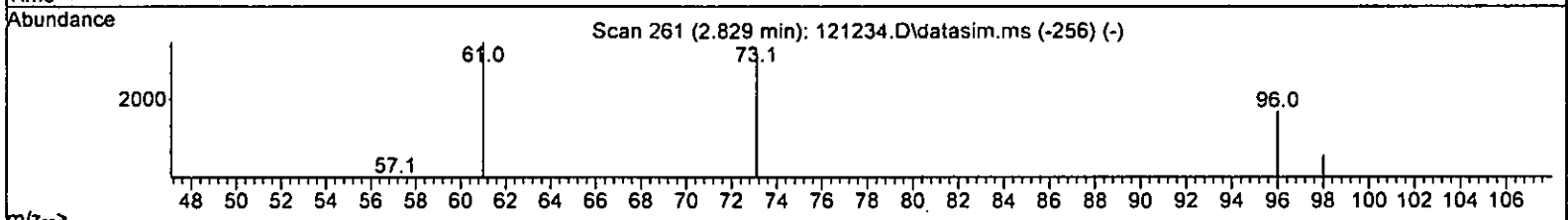
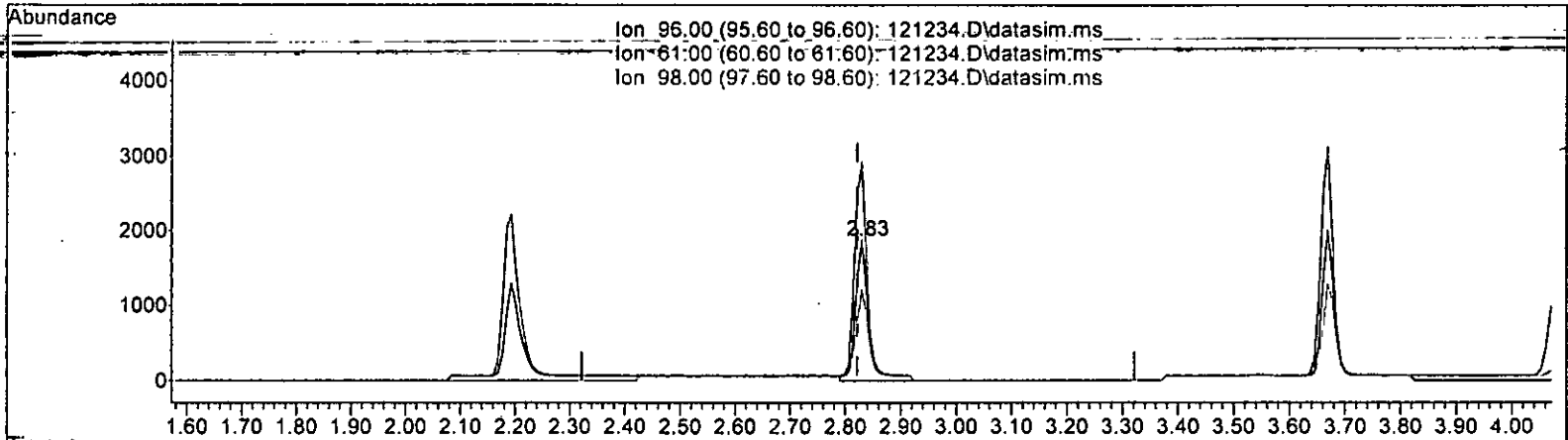
response	7187		
Ion	Exp%	Act%	
73.10	100.00	100.00	
57.10	24.80	28.28	
0.00	0.00	0.00	
0.00	0.00	0.00	

12/15 LM

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.829min (+ 0.007) 2.284 ppb

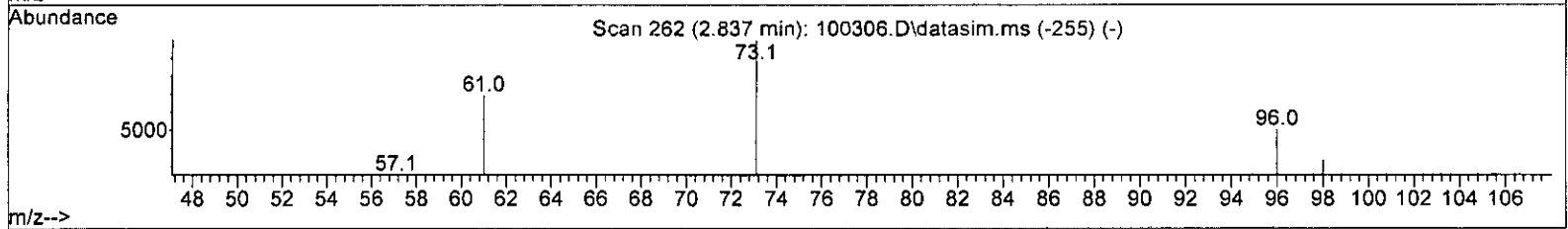
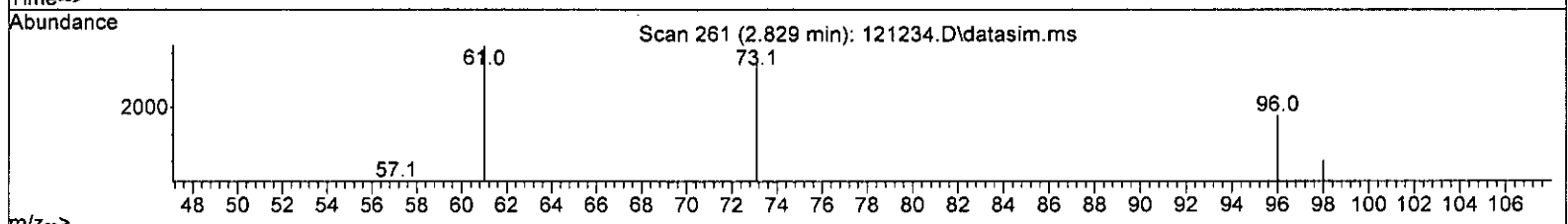
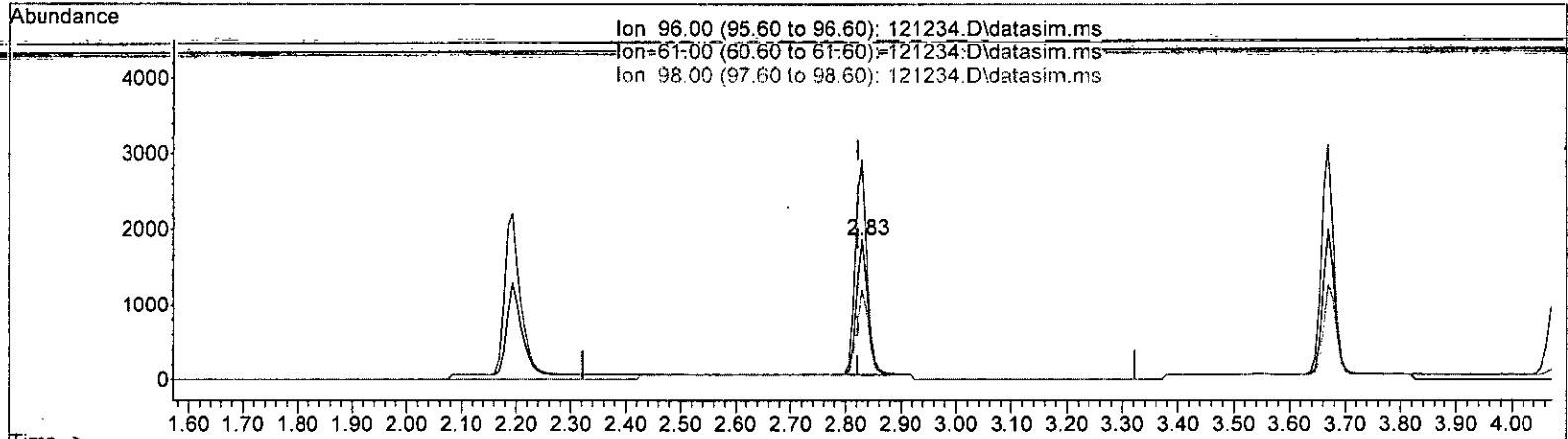
response	3036
Ion	Exp% Act%
96.00	100.00 100.00
61.00	171.80 156.11
98.00	61.00 64.20
0.00	0.00 0.00

*Handwritten note: 12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121234.D\data.ms

(17) trans-1,2-Dichloroethene (TMP)

2.829min (+ 0.007) 1.929 ppb m

response	2564		
Ion	Exp%	Act%	
96.00	100.00	100.00	
61.00	171.80	156.11	
98.00	61.00	64.20	
0.00	0.00	0.00	

*12/15 LM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq.Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.02
3 S Dibromofluoromethane	10.000	9.729	2.7	100	0.00
4 TMP Dichlorodifluoromethane	2.000	1.962	1.9	100	0.00
5 TMP Chloromethane	2.000	2.167	-8.3	100	0.00
6 TMP Vinyl chloride	2.000	2.011	-0.6	105	0.00
7 TMP Bromomethane	2.000	2.113	-5.6	103	0.00
8 TMP Chloroethane	2.000	2.061	-3.0	111	0.00
9 TMP Trichlorofluoromethane	2.000	1.945	2.7	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	10.000	10.310	-3.1	100	0.00
12 TMP 1,1-Dichloroethene	2.000	1.963	1.8	90	0.00
13 TMP Hexane	2.000	2.075	-3.8	100	0.00
14 TMP Methylene chloride	2.000	0.000	100.0#	0	-2.60#
15 TMP t-Butyl alcohol (TBA)	10.000	10.330	-3.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	2.000	2.008	-0.4	100	0.00
17 TMP trans-1,2-Dichloroethene	2.000	1.929	3.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	2.000	2.034	-1.7	100	0.00
19 TMP 1,1-Dichloroethane	2.000	2.024	-1.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	2.000	2.030	-1.5	100	0.00
21 TMP 2,2-Dichloropropane	2.000	1.949	2.5	100	0.00
22 TMP cis-1,2-Dichloroethene	2.000	2.015	-0.8	100	0.00
23 TMP Chloroform	2.000	2.041	-2.0	100	0.00
24 TMP 2-Butanone (MEK)	10.000	10.076	-0.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	2.000	2.053	-2.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	2.000	1.981	0.9	100	0.00
27 TMP 1,1,1-Trichloroethane	2.000	2.027	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	2.000	2.118	-5.9	100	0.00
29 TMP Carbon tetrachloride	2.000	2.026	-1.3	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.992	0.1	100	0.00
31 TMP Benzene	2.000	2.036	-1.8	100	0.00
32 TMP Trichloroethene	2.000	1.995	0.2	100	0.00
33 TMP 1,2-Dichloropropane	2.000	2.066	-3.3	100	0.00
34 TMP Bromodichloromethane	2.000	1.982	0.9	100	0.00
35 S Toluene-d8	10.000	9.870	1.3	100	0.00
36 TMP Dibromomethane	2.000	2.115	-5.8	100	0.00
37 TMP 4-Methyl-2-pentanone	10.000	11.014	-10.1	100	0.00
38 TMP cis-1,3-Dichloropropene	2.000	1.982	0.9	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	2.000	1.968	1.6	100	0.00
41 TMP trans-1,3-Dichloropropene	2.000	2.044	-2.2	100	0.00
42 TMP 1,1,2-Trichloroethane	2.000	1.998	0.1	100	0.00
43 TMP 2-Hexanone	10.000	10.669	-6.7	100	0.00

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	2.000	2.080	-4.0	100	0.00
45 TMP Tetrachloroethene	2.000	1.982	0.9	100	0.00
46 TMP Dibromochloromethane	2.000	2.130	-6.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	2.000	1.984	0.8	100	0.00
48 TMP Chlorobenzene	2.000	1.953	2.3	100	0.00
49 TMP Ethylbenzene	2.000	2.026	-1.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	2.000	1.972	1.4	100	0.00
51 TMP m,p-Xylene	4.000	4.067	-1.7	100	0.00
52 TMP o-Xylene	2.000	2.028	-1.4	100	0.00
53 TMP Styrene	2.000	2.024	-1.2	100	0.00
54 TMP Isopropylbenzene	2.000	2.004	-0.2	100	0.00
55 TMP Bromoform	2.000	1.886	5.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.975	0.3	100	0.00
58 TMP n-Propylbenzene	2.000	1.984	0.8	100	0.00
59 TMP Bromobenzene	2.000	1.942	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.000	1.958	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	2.000	2.054	-2.7	100	0.00
62 TMP 1,2,3-Trichloropropane	2.000	1.904	4.8	100	0.00
63 TMP 2-Chlorotoluene	2.000	2.057	-2.8	100	0.00
64 TMP 4-Chlorotoluene	2.000	1.959	2.0	100	0.00
65 TMP tert-Butylbenzene	2.000	1.959	2.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.000	1.897	5.1	100	0.00
67 TMP sec-Butylbenzene	2.000	1.981	0.9	100	0.00
68 TMP p-Isopropyltoluene	2.000	1.984	0.8	100	0.00
69 TMP 1,3-Dichlorobenzene	2.000	2.058	-2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	2.000	1.990	0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	2.000	1.973	1.3	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	2.000	2.042	-2.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	2.000	1.910	4.5	100	0.00
74 TMP Hexachlorobutadiene	2.000	1.874	6.3	100	0.00
75 TMP Naphthalene	2.000	2.054	-2.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	2.000	1.863	6.9	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	100	0.02
3 S Dibromofluoromethane	0.264	0.257	2.7	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.675	1.9	100	0.00
5 TMP Chloromethane	0.883	0.956	-8.3	100	0.00
6 TMP Vinyl chloride	0.732	0.736	-0.5	105	0.00
7 TMP Bromomethane	0.368	0.389	-5.7	103	0.00
8 TMP Chloroethane	0.336	0.347	-3.3	111	0.00
9 TMP Trichlorofluoromethane	0.870	0.846	2.8	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.038	-2.7	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.236	1.7	90	0.00
13 TMP Hexane	0.434	0.450	-3.7	100	0.00
14 TMP Methylene chloride	0.269	0.000#	100.0#	0#	-2.60#
15 TMP t-Butyl alcohol (TBA)	0.046	0.048	-4.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.736	-0.4	100	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.263	3.3	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.948	-1.7	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.510	-1.2	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.300	-1.4	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.308	2.5	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.288	-0.7	100	0.00
23 TMP Chloroform	0.477	0.487	-2.1	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.184	-0.5	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.712	-2.6	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.409	1.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.446	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.384	-6.1	100	0.00
29 TMP Carbon tetrachloride	0.367	0.372	-1.4	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	0.999	1.017	-1.8	100	0.00
32 TMP Trichloroethene	0.316	0.315	0.3	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.306	-3.4	100	0.00
34 TMP Bromodichloromethane	0.357	0.354	0.8	100	0.00
35 S Toluene-d8	0.960	0.948	1.3	100	0.00
36 TMP Dibromomethane	0.169	0.179	-5.9	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.057	-9.6	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.425	0.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.844	1.6	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.494	-2.1	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.263	0.4	100	0.00
43 TMP 2-Hexanone	0.335	0.358	-6.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.488	-3.8	100	0.00
45 TMP Tetrachloroethene	0.342	0.339	0.9	100	0.00
46 TMP Dibromochloromethane	0.354	0.377	-6.5	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.325	0.6	100	0.00
48 TMP Chlorobenzene	0.925	0.903	2.4	100	0.00
49 TMP Ethylbenzene	1.611	1.632	-1.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.328	1.5	100	0.00
51 TMP m,p-Xylene	0.607	0.618	-1.8	100	0.00
52 TMP o-Xylene	0.595	0.603	-1.3	100	0.00
53 TMP Styrene	0.973	0.985	-1.2	100	0.00
54 TMP Isopropylbenzene	1.564	1.567	-0.2	100	0.00
55 TMP Bromoform	0.252	0.238	5.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.842	0.2	100	0.00
58 TMP n-Propylbenzene	3.281	3.255	0.8	100	0.00
59 TMP Bromobenzene	0.770	0.748	2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.392	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.716	-2.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.558	4.8	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.995	-2.8	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.234	2.1	100	0.00
65 TMP tert-Butylbenzene	2.141	2.097	2.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.348	5.2	100	0.00
67 TMP sec-Butylbenzene	3.103	3.073	1.0	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.651	0.8	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.475	-2.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.454	0.5	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.361	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.158	-1.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.936	4.5	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.507	6.5	100	0.00
75 TMP Naphthalene	2.597	2.667	-2.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.842	6.9	100	0.00

(#) = Out of Range

SPCC's out = 2 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	48822	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38734	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21530	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	12533	9.729	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	97.30%		
30) 1,2-Dichloroethane-d4	4.36	102	2943	9.992	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	99.90%		
35) Toluene-d8	5.98	98	46265	9.870	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	98.70%		
57) 4-Bromofluorobenzene	8.38	95	18132	9.975	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	99.80%		
<b>Target Compounds</b>							
2) Ethanol	1.88	45	58	No Calib			Qvalue
4) Dichlorodifluoromethane	1.09	85	6595	1.962	ppb		88
5) Chloromethane	1.23	50	9338	2.167	ppb		93
6] Vinyl chloride	1.30	62	7184	2.011	ppb		92
7) Bromomethane	1.54	94	3800m	2.113	ppb		
8] Chloroethane	1.60	64	3386	2.061	ppb		98
9) Trichlorofluoromethane	1.80	101	8259m	1.945	ppb		
10) 2-Propanol	2.41	45	290	No Calib			
11) Acetone	2.26	58	1874	10.310	ppb		96
12] 1,1-Dichloroethene	2.19	96	2304m	1.963	ppb		
13) Hexane	3.05	57	4393	2.075	ppb		93
14) Methylene chloride	0.00		0	N.D.	d		
15) t-Butyl alcohol (TBA)	2.74	59	2329	10.330	ppb		97
16] Methyl t-butyl ether (...)	2.84	73	7187m	2.008	ppb		
17] trans-1,2-Dichloroethene	2.83	96	2564m	1.929	ppb		
18) Diisopropyl ether (DIPE)	3.25	45	9256	2.034	ppb		94
19] 1,1-Dichloroethane	3.18	63	4983	2.024	ppb		95
20) Ethyl t-butyl ether (E...)	3.55	87	2934	2.030	ppb	#	79
21) 2,2-Dichloropropane	3.67	77	3007	1.949	ppb		92
22] cis-1,2-Dichloroethene	3.67	96	2817	2.015	ppb		97
23) Chloroform	3.95	83	4754	2.041	ppb		97
24) 2-Butanone (MEK)	3.71	43	8997	10.076	ppb		98
25) t-Amyl methyl ether (T...)	4.50	73	6950	2.053	ppb		96
26] 1,2-Dichloroethane (EDC)	4.42	62	3998	1.981	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	4357	2.027	ppb		98
28) 1,1-Dichloropropene	4.22	75	3746	2.118	ppb		94
29) Carbon tetrachloride	4.21	117	3631	2.026	ppb		91
31] Benzene	4.39	78	9931	2.036	ppb		98
32] Trichloroethene	4.93	95	3074	1.995	ppb		96
33) 1,2-Dichloropropane	5.13	63	2989	2.066	ppb	#	91
34) Bromodichloromethane	5.37	83	3458	1.982	ppb		89
36) Dibromomethane	5.23	93	1744	2.115	ppb		94



Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

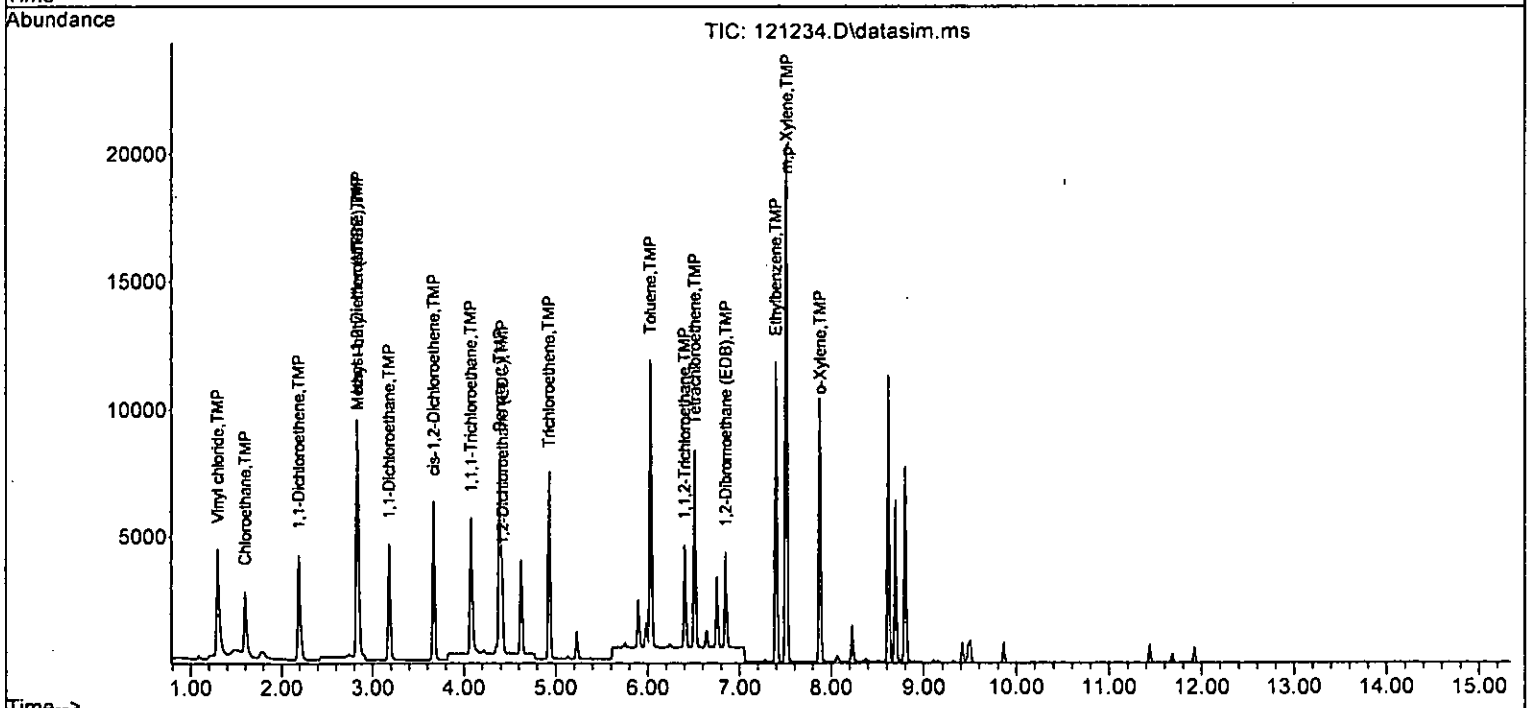
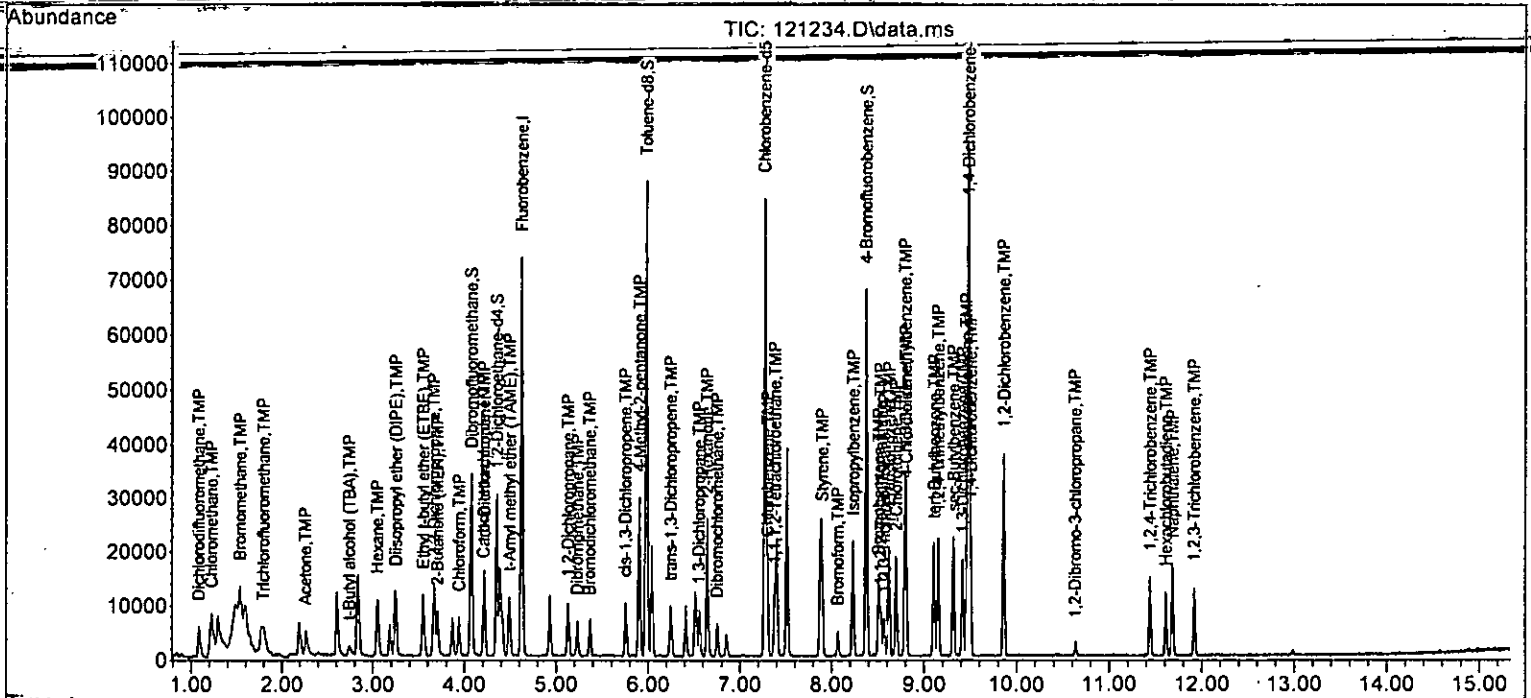
Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QI	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	2806	11.014	ppb	83
38) cis-1,3-Dichloropropene	5.75	75	4147	1.982	ppb	97
40] Toluene	6.03	92	6538	1.968	ppb	90
41) trans-1,3-Dichloropropene	6.25	75	3828	2.044	ppb	95
42] 1,1,2-Trichloroethane	6.40	83	2041	1.998	ppb	100
43) 2-Hexanone	6.64	43	13860	10.669	ppb	97
44) 1,3-Dichloropropane	6.55	76	3784	2.080	ppb	100
45] Tetrachloroethene	6.51	164	2627	1.982	ppb	99
46) Dibromochloromethane	6.75	129	2918	2.130	ppb	99
47] 1,2-Dibromoethane (EDB)	6.85	107	2515	1.984	ppb	100
48) Chlorobenzene	7.30	112	6999	1.953	ppb	99
49] Ethylbenzene	7.40	91	12645	2.026	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	2543	1.972	ppb	97
51] m,p-Xylene	7.52	106	9568	4.067	ppb	100
52] o-Xylene	7.88	106	4674	2.028	ppb	98
53) Styrene	7.90	104	7627	2.024	ppb	96
54) Isopropylbenzene	8.23	105	12137	2.004	ppb	97
55) Bromoform	8.07	173	1843	1.886	ppb	90
58) n-Propylbenzene	8.63	91	14014	1.984	ppb	89
59) Bromobenzene	8.51	156	3221	1.942	ppb #	81
60) 1,3,5-Trimethylbenzene	8.80	105	10300	1.958	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	3085	2.054	ppb	89
62) 1,2,3-Trichloropropane	8.57	75	2401	1.904	ppb	93
63) 2-Chlorotoluene	8.70	91	8592	2.057	ppb	98
64) 4-Chlorotoluene	8.81	91	9620	1.959	ppb	94
65) tert-Butylbenzene	9.11	119	9031	1.959	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	10112	1.897	ppb	98
67) sec-Butylbenzene	9.32	105	13234	1.981	ppb	99
68) p-Isopropyltoluene	9.46	119	11415	1.984	ppb	96
69) 1,3-Dichlorobenzene	9.42	146	6353	2.058	ppb	98
70) 1,4-Dichlorobenzene	9.50	146	6259	1.990	ppb	94
71) 1,2-Dichlorobenzene	9.86	146	5860	1.973	ppb	94
72) 1,2-Dibromo-3-chloropr...	10.63	75	681	2.042	ppb #	67
73) 1,2,4-Trichlorobenzene	11.44	180	4030	1.910	ppb	94
74) Hexachlorobutadiene	11.61	225	2185	1.874	ppb	78
75) Naphthalene	11.68	128	11484	2.054	ppb	97
76) 1,2,3-Trichlorobenzene	11.92	180	3625	1.863	ppb	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121234.D  
 Acq On : 13 Dec 2022 12:51 am  
 Operator : LM  
 Sample : 2 ppb 8260 ICAL 68-25L  
 Misc : soil/water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS11

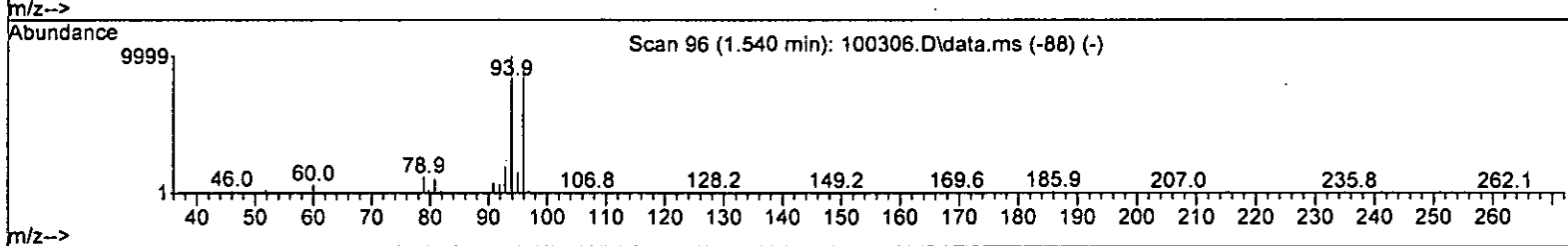
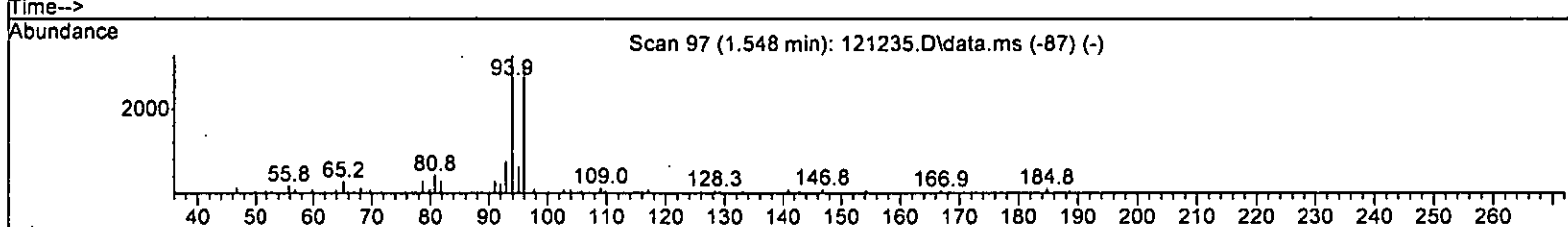
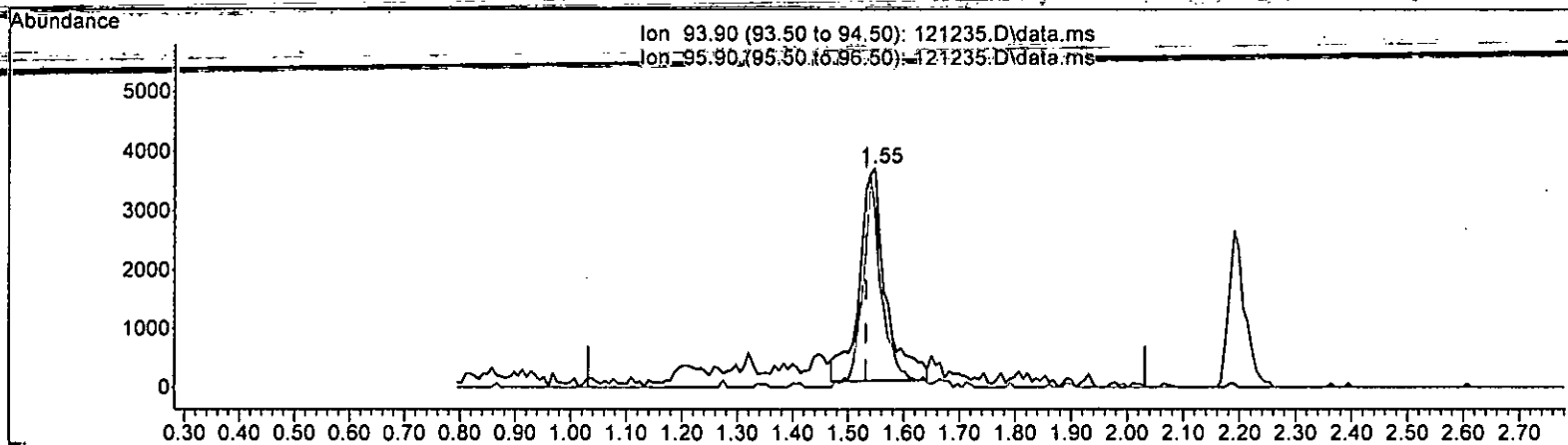
Quant Time: Dec 15 11:21:47 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121235.D\data.ms

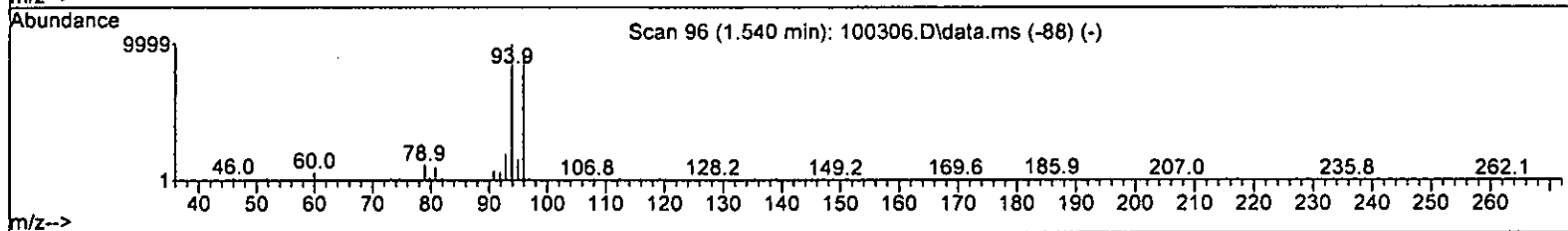
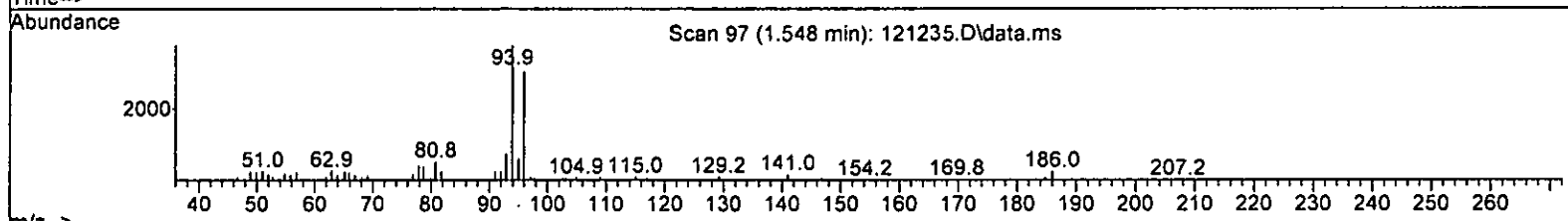
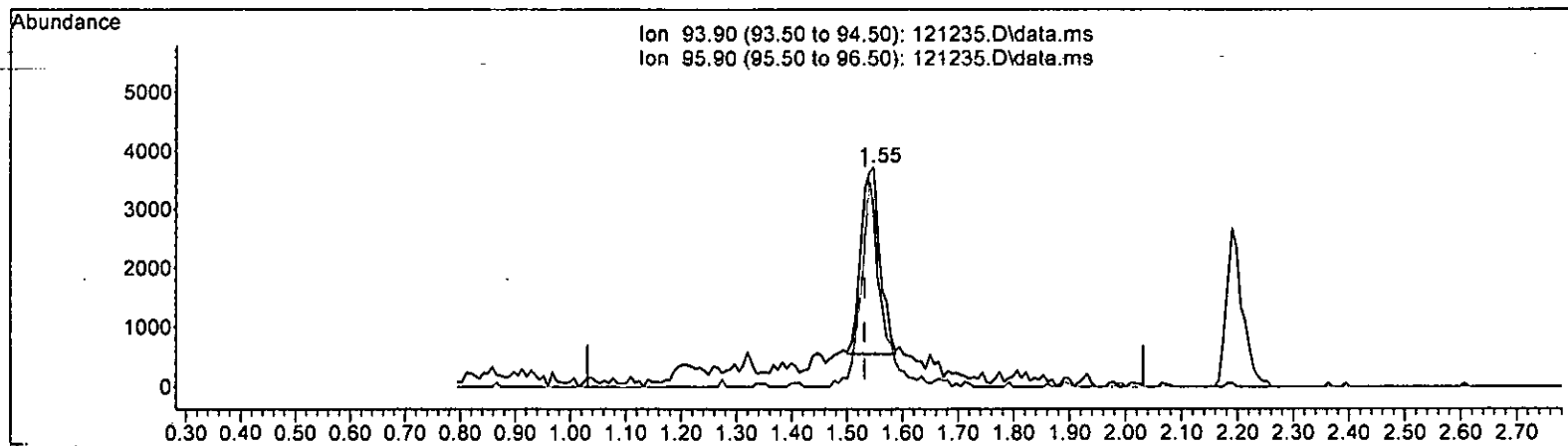
(7) Bromomethane (TMP)		
Retention Time	Expected	Actual
1.548min (+ 0.016)	6.572 ppb	
response	11813	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	87.24
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121235.D\data.ms

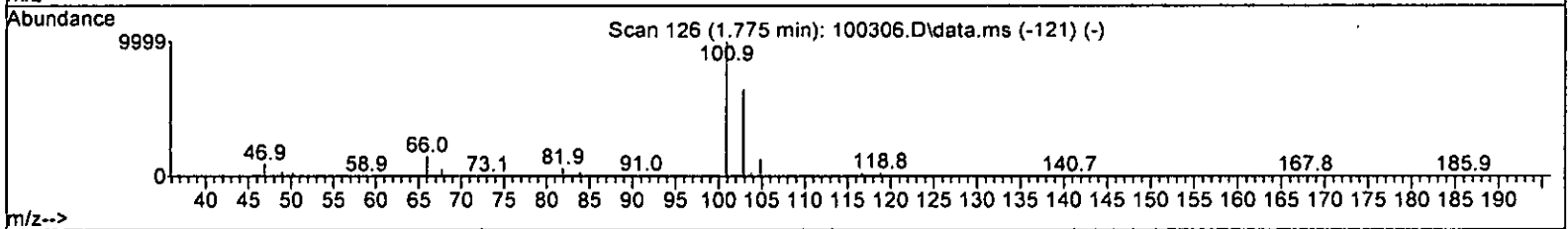
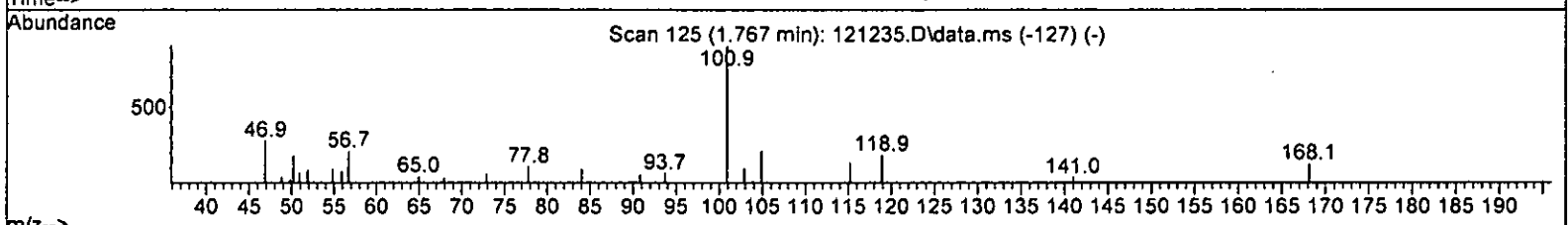
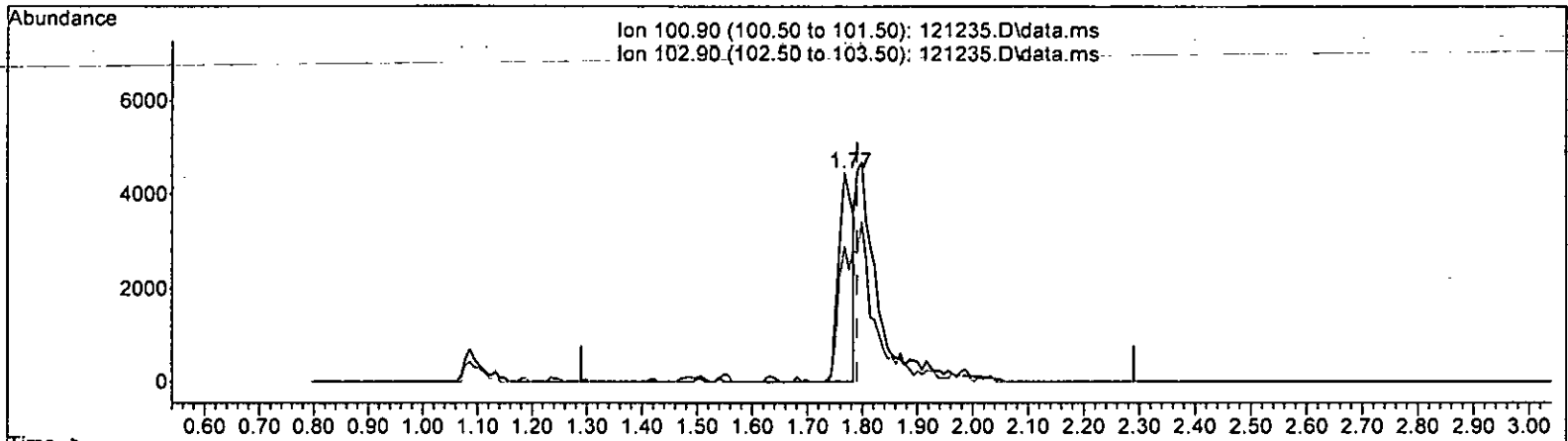
(7) Bromomethane (TMP)		
1.548min (+ 0.016)	4.148 ppb m	
response	7456	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	80.36
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: 12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121235.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 1.862 ppb

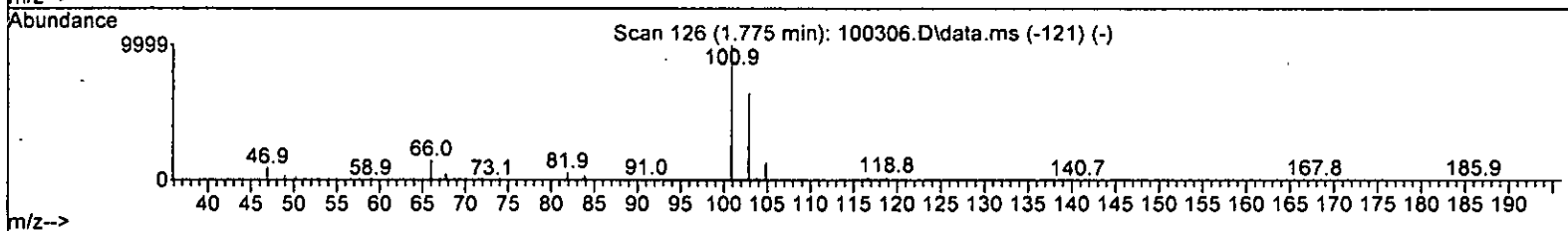
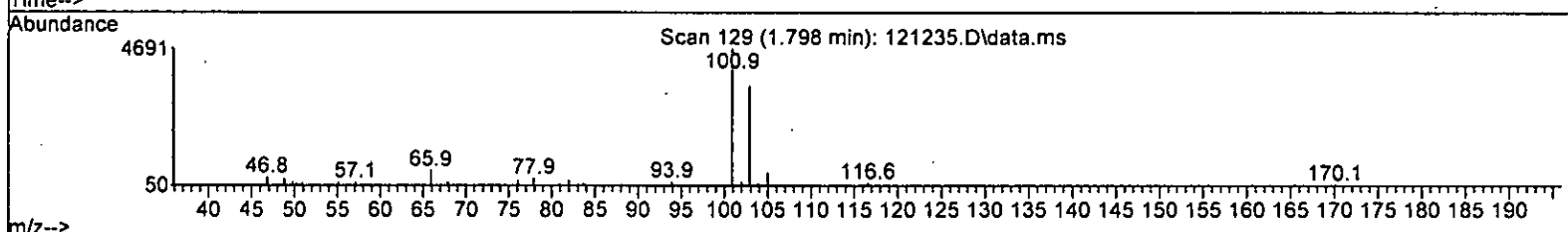
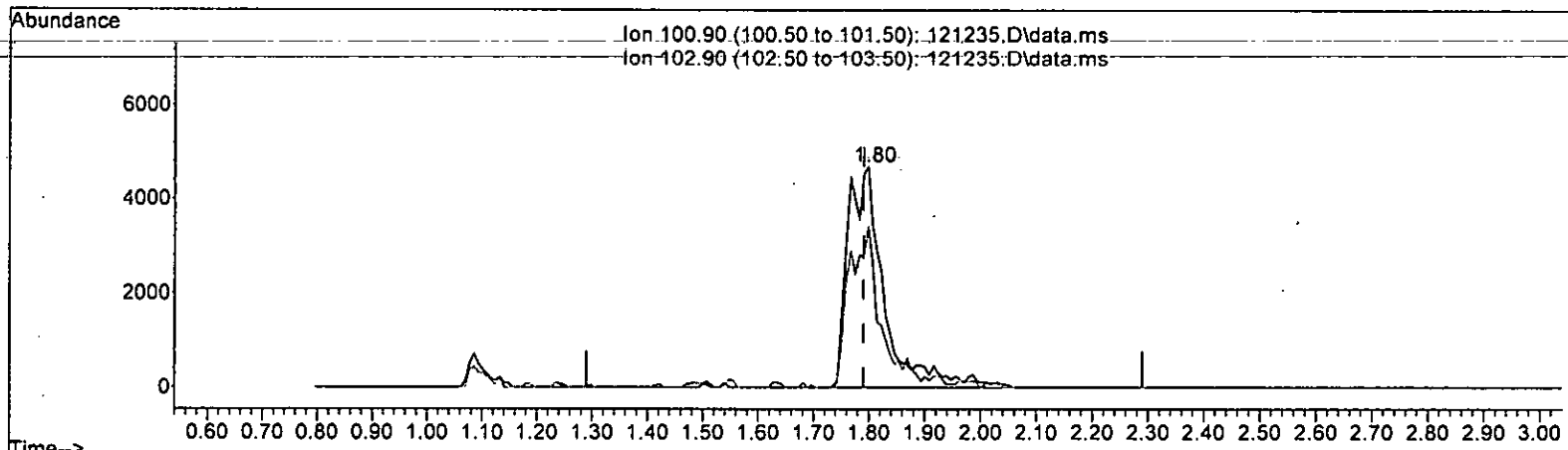
response	7904
Ion	Exp% Act%
100.90	100.00 100.00
102.90	62.70 65.09
0.00	0.00 0.00
0.00	0.00 0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121235.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.798min (+ 0.008) 5.170 ppb m

response	21948		
Ion	Exp%	Act%	
100.90	100.00	100.00	<i>12/15 LM</i>
102.90	62.70	72.89	
0.00	0.00	0.00	
0.00	0.00	0.00	

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.788	2.1	100	0.00
4 TMP Dichlorodifluoromethane	5.000	4.942	1.2	100	0.00
5 TMP Chloromethane	5.000	4.859	2.8	100	0.00
6 TMP Vinyl chloride	5.000	4.878	2.4	100	0.00
7 TMP Bromomethane	5.000	4.148	17.0	100	0.02
8 TMP Chloroethane	5.000	4.728	5.4	100	0.00
9 TMP Trichlorofluoromethane	5.000	5.170	-3.4	104	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	25.000	23.045	7.8	100	0.00
12 TMP 1,1-Dichloroethene	5.000	4.750	5.0	100	0.00
13 TMP Hexane	5.000	4.750	5.0	100	0.00
14 TMP Methylene chloride	5.000	5.745	-14.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	25.000	23.352	6.6	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	5.000	4.971	0.6	100	0.00
17 TMP trans-1,2-Dichloroethene	5.000	5.021	-0.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	5.000	4.959	0.8	100	0.00
19 TMP 1,1-Dichloroethane	5.000	4.880	2.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	5.000	4.794	4.1	100	0.00
21 TMP 2,2-Dichloropropane	5.000	4.739	5.2	100	0.00
22 TMP cis-1,2-Dichloroethene	5.000	4.845	3.1	100	0.00
23 TMP Chloroform	5.000	4.944	1.1	100	0.00
24 TMP 2-Butanone (MEK)	25.000	26.196	-4.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	5.000	4.906	1.9	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	5.000	4.734	5.3	100	0.00
27 TMP 1,1,1-Trichloroethane	5.000	4.859	2.8	100	0.00
28 TMP 1,1-Dichloropropene	5.000	4.825	3.5	100	0.00
29 TMP Carbon tetrachloride	5.000	4.902	2.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.917	0.8	100	0.00
31 TMP Benzene	5.000	4.860	2.8	100	0.00
32 TMP Trichloroethene	5.000	4.769	4.6	100	0.00
33 TMP 1,2-Dichloropropane	5.000	4.540	9.2	100	0.00
34 TMP Bromodichloromethane	5.000	4.562	8.8	100	0.00
35 S Toluene-d8	10.000	9.824	1.8	100	0.00
36 TMP Dibromomethane	5.000	5.030	-0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	25.000	24.628	1.5	100	0.00
38 TMP cis-1,3-Dichloropropene	5.000	4.414	11.7	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	5.000	4.876	2.5	100	0.00
41 TMP trans-1,3-Dichloropropene	5.000	5.115	-2.3	100	0.00
42 TMP 1,1,2-Trichloroethane	5.000	4.937	1.3	100	0.00
43 TMP 2-Hexanone	25.000	25.784	-3.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44	TMP 1,3-Dichloropropane	5.000	5.076	-1.5	100	0.00
45	TMP Tetrachloroethene	5.000	4.811	3.8	100	0.00
46	TMP Dibromochloromethane	5.000	4.809	3.8	100	0.00
47	TMP 1,2-Dibromoethane (EDB)	5.000	4.894	2.1	100	0.00
48	TMP Chlorobenzene	5.000	4.971	0.6	100	0.00
49	TMP Ethylbenzene	5.000	4.985	0.3	100	0.00
50	TMP 1,1,1,2-Tetrachloroethane	5.000	5.071	-1.4	100	0.00
51	TMP m,p-Xylene	10.000	9.969	0.3	100	0.00
52	TMP o-Xylene	5.000	5.006	-0.1	100	0.00
53	TMP Styrene	5.000	5.221	-4.4	100	0.00
54	TMP Isopropylbenzene	5.000	4.952	1.0	100	0.00
55	TMP Bromoform	5.000	4.836	3.3	100	0.00
56	I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57	S 4-Bromofluorobenzene	10.000	9.730	2.7	100	0.00
58	TMP n-Propylbenzene	5.000	4.927	1.5	100	0.00
59	TMP Bromobenzene	5.000	4.969	0.6	100	0.00
60	TMP 1,3,5-Trimethylbenzene	5.000	4.816	3.7	100	0.00
61	TMP 1,1,2,2-Tetrachloroethane	5.000	5.047	-0.9	100	0.00
62	TMP 1,2,3-Trichloropropane	5.000	5.106	-2.1	100	0.00
63	TMP 2-Chlorotoluene	5.000	4.705	5.9	100	0.00
64	TMP 4-Chlorotoluene	5.000	4.619	7.6	100	0.00
65	TMP tert-Butylbenzene	5.000	4.757	4.9	100	0.00
66	TMP 1,2,4-Trimethylbenzene	5.000	4.762	4.8	100	0.00
67	TMP sec-Butylbenzene	5.000	4.773	4.5	100	0.00
68	TMP p-Isopropyltoluene	5.000	4.785	4.3	100	0.00
69	TMP 1,3-Dichlorobenzene	5.000	4.735	5.3	100	0.00
70	TMP 1,4-Dichlorobenzene	5.000	4.708	5.8	100	0.00
71	TMP 1,2-Dichlorobenzene	5.000	4.857	2.9	100	0.00
72	TMP 1,2-Dibromo-3-chloropropane	5.000	4.574	8.5	100	0.00
73	TMP 1,2,4-Trichlorobenzene	5.000	4.707	5.9	100	0.00
74	TMP Hexachlorobutadiene	5.000	4.800	4.0	100	0.00
75	TMP Naphthalene	5.000	4.667	6.7	100	0.00
76	TMP 1,2,3-Trichlorobenzene	5.000	4.727	5.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.258	2.3	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.681	1.0	100	0.00
5 TMP Chloromethane	0.883	0.858	2.8	100	0.00
6 TMP Vinyl chloride	0.732	0.714	2.5	100	0.00
7 TMP Bromomethane	0.368	0.306	16.8	100	0.02
8 TMP Chloroethane	0.336	0.318	5.4	100	0.00
9 TMP Trichlorofluoromethane	0.870	0.899	-3.3	104	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.034	8.1	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.228	5.0	100	0.00
13 TMP Hexane	0.434	0.412	5.1	100	0.00
14 TMP Methylene chloride	0.269	0.309	-14.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.043	6.5	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.729	0.5	100	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.273	-0.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.924	0.9	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.492	2.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.284	4.1	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.299	5.4	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.277	3.1	100	0.00
23 TMP Chloroform	0.477	0.472	1.0	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.192	-4.9	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.680	2.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.391	5.3	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.428	2.7	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.350	3.3	100	0.00
29 TMP Carbon tetrachloride	0.367	0.360	1.9	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP Benzene	0.999	0.971	2.8	100	0.00
32 TMP Trichloroethene	0.316	0.301	4.7	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.269	9.1	100	0.00
34 TMP Bromodichloromethane	0.357	0.326	8.7	100	0.00
35 S Toluene-d8	0.960	0.943	1.8	100	0.00
36 TMP Dibromomethane	0.169	0.170	-0.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.378	11.9	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.836	2.6	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.495	-2.3	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.260	1.5	100	0.00
43 TMP 2-Hexanone	0.335	0.346	-3.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.477	-1.5	100	0.00
45 TMP Tetrachloroethene	0.342	0.329	3.8	100	0.00
46 TMP Dibromochloromethane	0.354	0.340	4.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.320	2.1	100	0.00
48 TMP Chlorobenzene	0.925	0.920	0.5	100	0.00
49 TMP Ethylbenzene	1.611	1.607	0.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.338	-1.5	100	0.00
51 TMP m,p-Xylene	0.607	0.605	0.3	100	0.00
52 TMP o-Xylene	0.595	0.596	-0.2	100	0.00
53 TMP Styrene	0.973	1.016	-4.4	100	0.00
54 TMP Isopropylbenzene	1.564	1.549	1.0	100	0.00
55 TMP Bromoform	0.252	0.244	3.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.822	2.6	100	0.00
58 TMP n-Propylbenzene	3.281	3.233	1.5	100	0.00
59 TMP Bromobenzene	0.770	0.766	0.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.353	3.7	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.704	-0.9	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.598	-2.0	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.826	5.9	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.107	7.6	100	0.00
65 TMP tert-Butylbenzene	2.141	2.037	4.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.358	4.8	100	0.00
67 TMP sec-Butylbenzene	3.103	2.962	4.5	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.557	4.3	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.358	5.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.376	5.8	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.340	2.9	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.142	8.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.922	5.9	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.520	4.1	100	0.00
75 TMP Naphthalene	2.597	2.424	6.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.855	5.4	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	48803	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	37344	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21151	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12604	9.788	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.90%	
30) 1,2-Dichloroethane-d4	4.36	102	2920	9.917	ppb	0.00	
Spiked Amount	10.000	Range	79 - 128	Recovery	=	99.20%	
35) Toluene-d8	5.98	98	46032	9.824	ppb	0.00	
Spiked Amount	10.000	Range	84 - 121	Recovery	=	98.20%	
57) 4-Bromofluorobenzene	8.38	95	17376	9.730	ppb	0.00	
Spiked Amount	10.000	Range	84 - 116	Recovery	=	97.30%	
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	1.09	85	16607	4.942	ppb	96	
5) Chloromethane	1.23	50	20935	4.859	ppb	95	
6] Vinyl chloride	1.29	62	17419	4.878	ppb	99	
7) Bromomethane	1.55	94	7456m	4.148	ppb		
8] Chloroethane	1.60	64	7762	4.728	ppb	100	
9) Trichlorofluoromethane	1.80	101	21948m	5.170	ppb		
10] 2-Propanol	2.41	45	324	No Calib			
11) Acetone	2.26	58	4187	23.045	ppb	97	
12] 1,1-Dichloroethene	2.19	96	5572	4.750	ppb	94	
13) Hexane	3.05	57	10054	4.750	ppb	97	
14) Methylene chloride	2.61	84	7543	5.745	ppb	95	
15) t-Butyl alcohol (TBA)	2.74	59	5263	23.352	ppb	100	
16] Methyl t-butyl ether (...)	2.84	73	17787	4.971	ppb	96	
17] trans-1,2-Dichloroethene	2.83	96	6671	5.021	ppb	87	
18) Diisopropyl ether (DIPE)	3.24	45	22556	4.959	ppb	99	
19] 1,1-Dichloroethane	3.18	63	12011	4.880	ppb	97	
20) Ethyl t-butyl ether (E...)	3.55	87	6926	4.794	ppb	88	
21) 2,2-Dichloropropane	3.67	77	7308	4.739	ppb	91	
22] cis-1,2-Dichloroethene	3.67	96	6771	4.845	ppb	93	
23) Chloroform	3.94	83	11509	4.944	ppb	92	
24) 2-Butanone (MEK)	3.70	43	23381	26.196	ppb	93	
25) t-Amyl methyl ether (T...)	4.49	73	16604	4.906	ppb	97	
26] 1,2-Dichloroethane (EDC)	4.41	62	9550	4.734	ppb	96	
27] 1,1,1-Trichloroethane	4.08	97	10437	4.859	ppb	97	
28) 1,1-Dichloropropene	4.22	75	8529	4.825	ppb	92	
29) Carbon tetrachloride	4.21	117	8782	4.902	ppb	96	
31] Benzene	4.39	78	23692	4.860	ppb	92	
32] Trichloroethene	4.93	95	7345	4.769	ppb	93	
33) 1,2-Dichloropropane	5.13	63	6565	4.540	ppb	97	
34) Bromodichloromethane	5.37	83	7957	4.562	ppb	87	
36) Dibromomethane	5.23	93	4146	5.030	ppb	97	

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

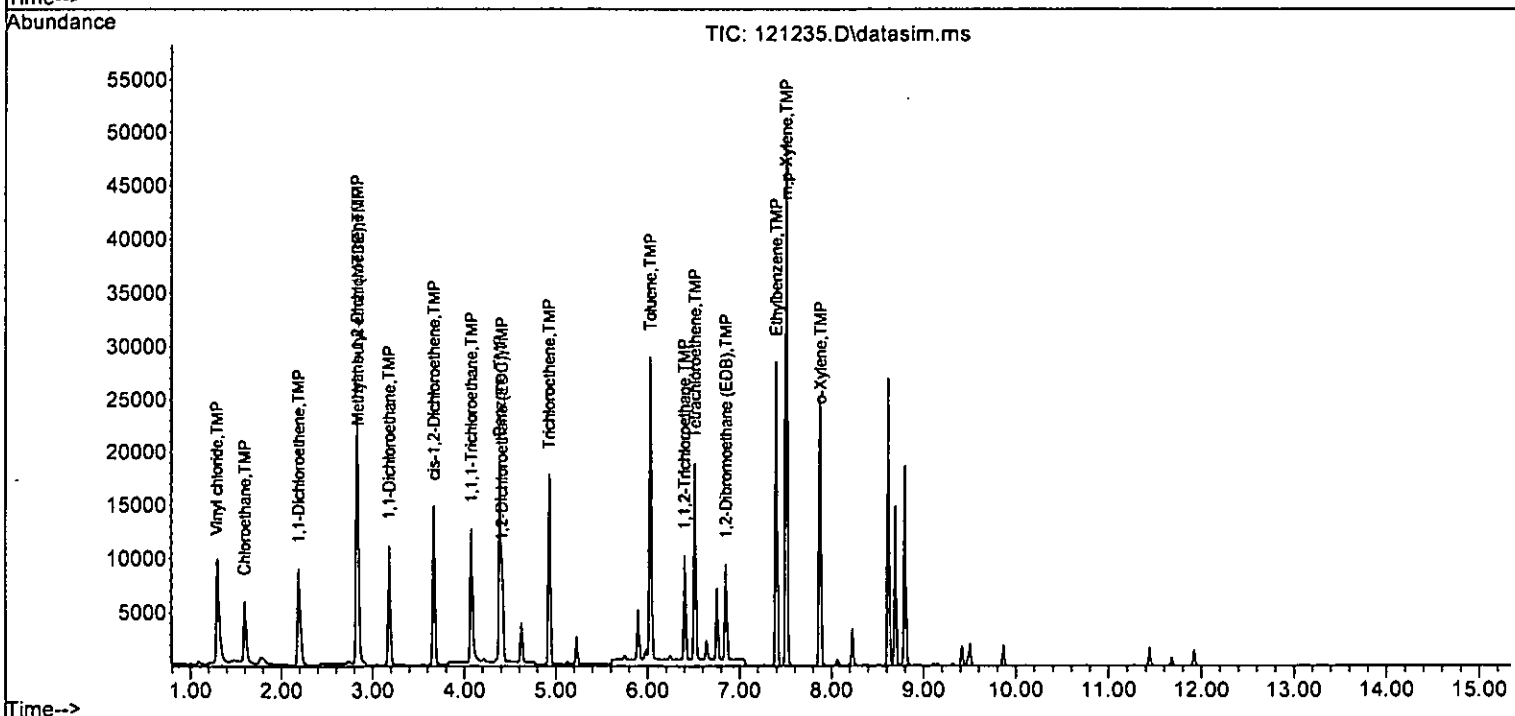
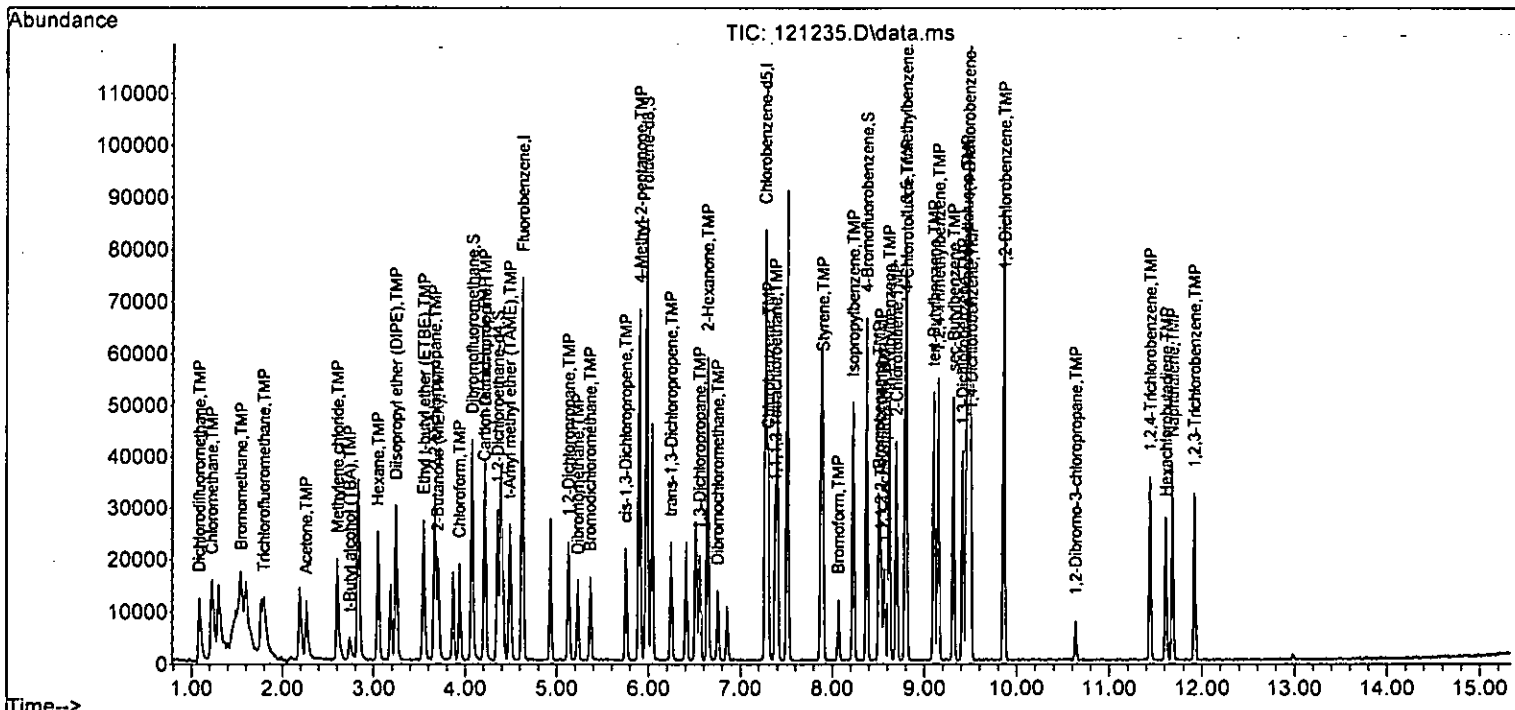
Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	6272	24.628	ppb	99
38) cis-1,3-Dichloropropene	5.75	75	9232	4.414	ppb	92
40] Toluene	6.03	92	15615	4.876	ppb	90
41) trans-1,3-Dichloropropene	6.25	75	9238	5.115	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	4862	4.937	ppb	97
43) 2-Hexanone	6.64	43	32294	25.784	ppb	98
44) 1,3-Dichloropropane	6.55	76	8904	5.076	ppb	98
45] Tetrachloroethene	6.51	164	6148	4.811	ppb	98
46) Dibromochloromethane	6.75	129	6352	4.809	ppb	97
47] 1,2-Dibromoethane (EDB)	6.85	107	5982	4.894	ppb	100
48) Chlorobenzene	7.30	112	17175	4.971	ppb	95
49] Ethylbenzene	7.40	91	29998	4.985	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	6304	5.071	ppb	92
51] m,p-Xylene	7.51	106	22609	9.969	ppb #	70
52] o-Xylene	7.88	106	11122	5.006	ppb	97
53) Styrene	7.90	104	18970	5.221	ppb	93
54) Isopropylbenzene	8.23	105	28922	4.952	ppb	100
55) Bromoform	8.07	173	4555	4.836	ppb	97
58) n-Propylbenzene	8.62	91	34191	4.927	ppb	97
59) Bromobenzene	8.51	156	8097	4.969	ppb	96
60) 1,3,5-Trimethylbenzene	8.80	105	24883	4.816	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	7448	5.047	ppb	90
62) 1,2,3-Trichloropropane	8.57	75	6327	5.106	ppb	89
63) 2-Chlorotoluene	8.70	91	19313	4.705	ppb	100
64) 4-Chlorotoluene	8.81	91	22285	4.619	ppb	97
65) tert-Butylbenzene	9.10	119	21540	4.757	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	24938	4.762	ppb	92
67) sec-Butylbenzene	9.31	105	31326	4.773	ppb	98
68) p-Isopropyltoluene	9.46	119	27043	4.785	ppb	99
69) 1,3-Dichlorobenzene	9.42	146	14361	4.735	ppb	93
70) 1,4-Dichlorobenzene	9.51	146	14547	4.708	ppb	95
71) 1,2-Dichlorobenzene	9.87	146	14174	4.857	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.64	75	1499	4.574	ppb	95
73) 1,2,4-Trichlorobenzene	11.44	180	9754	4.707	ppb	98
74) Hexachlorobutadiene	11.61	225	5498	4.800	ppb	85
75) Naphthalene	11.68	128	25634	4.667	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	9037	4.727	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121235.D  
 Acq On : 13 Dec 2022 01:14 am  
 Operator : LM  
 Sample : 5 ppb 8260 ICAL 68-25M  
 Misc : soil/water  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS11

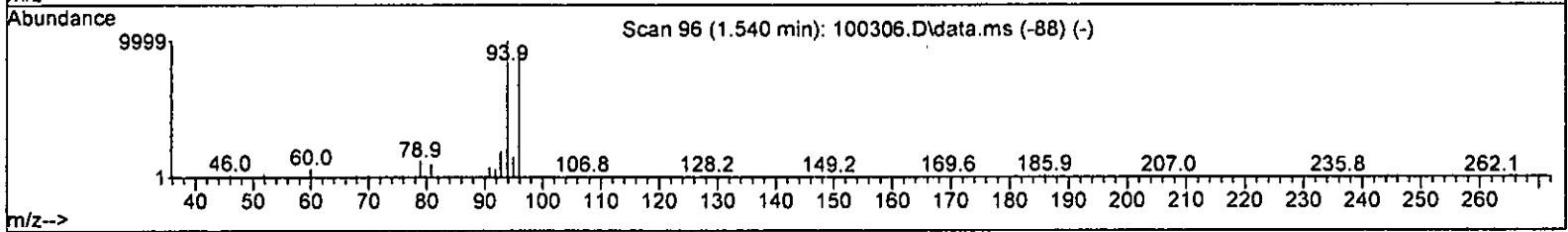
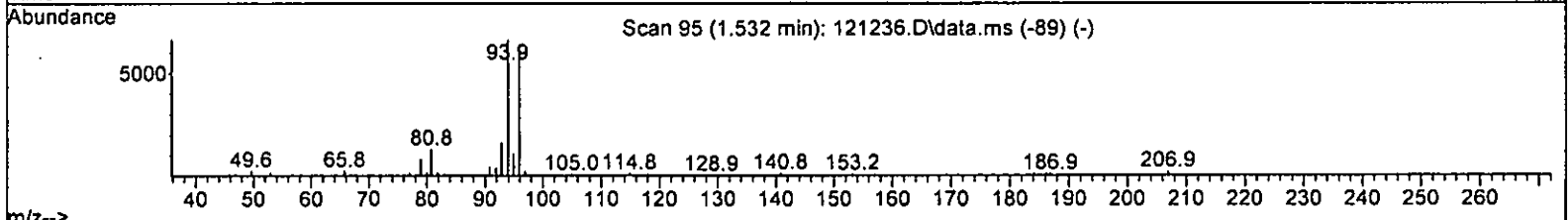
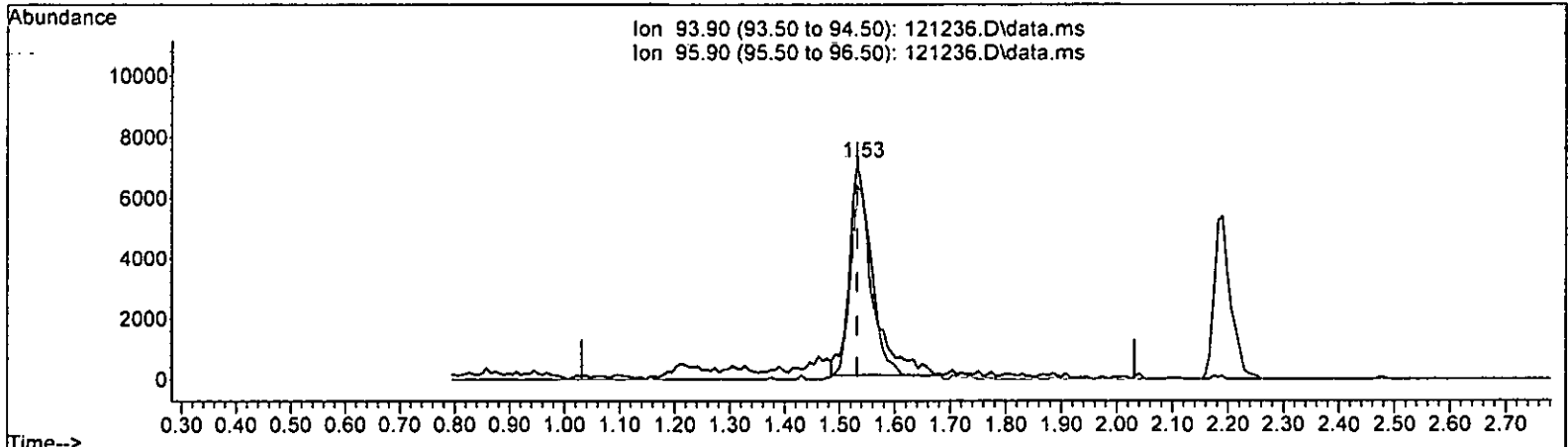
Quant Time: Dec 15 11:21:49 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



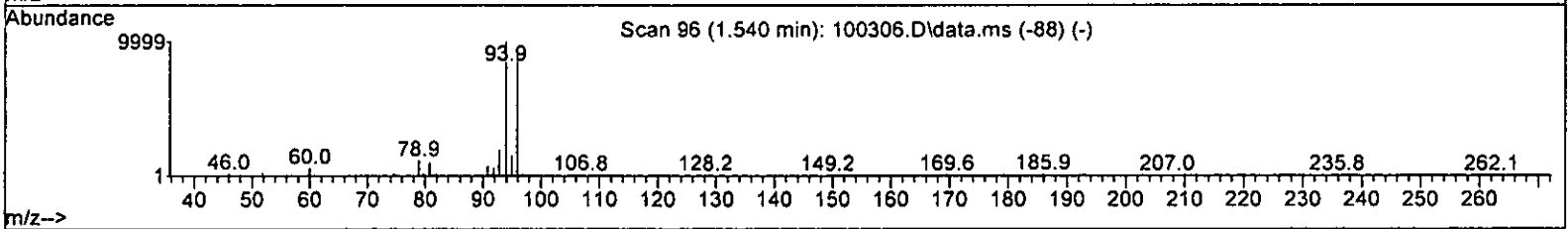
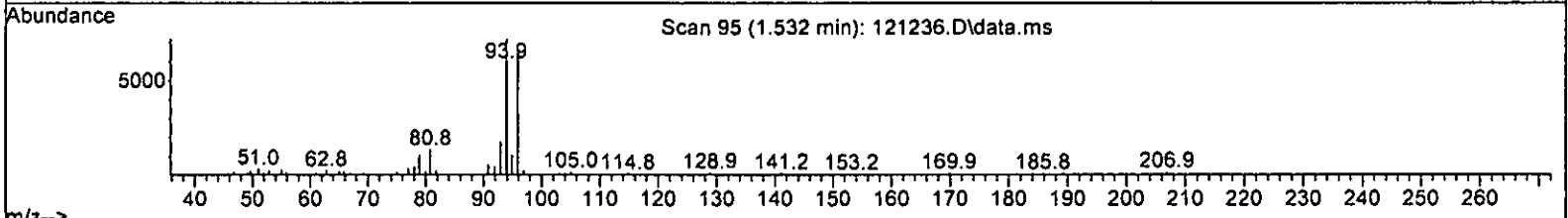
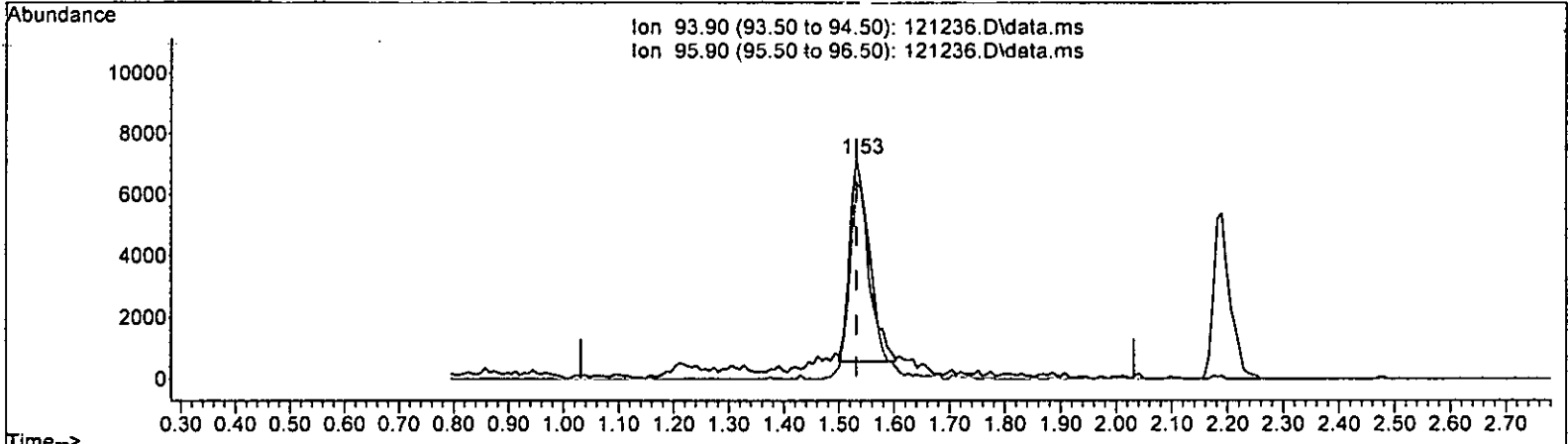
TIC: 121236.D\data.ms

(7) Bromomethane (TMP)			
1.532min (-0.000) 12/106 ppb			
response	21050		
Ion	Expt	Act%	
93.90	100.00	100.00	<i>12/15 LM</i>
95.90	69.20	91.07	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121236.D\data.ms

(7) Bromomethane (TMP)			
1.532min (-0.000) 9.339 ppb m			
response	16239		
Ion	Exp%	Act%	
93.90	100.00	100.00	<i>12/15 LM</i>
95.90	69.20	89.43	
0.00	0.00	0.00	
0.00	0.00	0.00	

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.069	-0.7	100	0.00
4 TMP Dichlorodifluoromethane	10.000	9.783	2.2	100	0.00
5 TMP Chloromethane	10.000	9.771	2.3	100	0.00
6 TMP Vinyl chloride	10.000	10.198	-2.0	100	0.00
7 TMP Bromomethane	10.000	9.339	6.6	104	0.00
8 TMP Chloroethane	10.000	9.829	1.7	100	0.00
9 TMP Trichlorofluoromethane	10.000	9.726	2.7	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	46.444	7.1	100	0.00
12 TMP 1,1-Dichloroethene	10.000	10.126	-1.3	100	0.00
13 TMP Hexane	10.000	10.044	-0.4	100	0.00
14 TMP Methylene chloride	10.000	10.715	-7.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	49.443	1.1	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.370	-3.7	100	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.134	-1.3	100	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.998	0.0	100	0.00
19 TMP 1,1-Dichloroethane	10.000	10.253	-2.5	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.386	-3.9	100	0.00
21 TMP 2,2-Dichloropropane	10.000	10.005	-0.1	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	10.140	-1.4	100	0.00
23 TMP Chloroform	10.000	9.592	4.1	100	0.00
24 TMP 2-Butanone (MEK)	50.000	48.782	2.4	100	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	10.319	-3.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	9.902	1.0	100	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.124	-1.2	100	0.00
28 TMP 1,1-Dichloropropene	10.000	10.072	-0.7	100	0.00
29 TMP Carbon tetrachloride	10.000	10.188	-1.9	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.599	-6.0	100	0.00
31 TMP Benzene	10.000	10.086	-0.9	100	0.00
32 TMP Trichloroethene	10.000	10.071	-0.7	100	0.00
33 TMP 1,2-Dichloropropane	10.000	9.926	0.7	100	0.00
34 TMP Bromodichloromethane	10.000	9.853	1.5	100	0.00
35 S Toluene-d8	10.000	9.802	2.0	100	0.00
36 TMP Dibromomethane	10.000	10.365	-3.7	100	0.00
37 TMP 4-Methyl-2-pentanone	50.000	48.757	2.5	100	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.748	2.5	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	10.000	9.979	0.2	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.943	0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.153	-1.5	100	0.00
43 TMP 2-Hexanone	50.000	51.220	-2.4	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.558	-5.6	100	0.00
45 TMP Tetrachloroethene	10.000	9.813	1.9	100	0.00
46 TMP Dibromochloromethane	10.000	9.970	0.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.035	-0.4	100	0.00
48 TMP Chlorobenzene	10.000	10.141	-1.4	100	0.00
49 TMP Ethylbenzene	10.000	10.158	-1.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.518	-5.2	100	0.00
51 TMP m,p-Xylene	20.000	20.237	-1.2	100	0.00
52 TMP o-Xylene	10.000	10.217	-2.2	100	0.00
53 TMP Styrene	10.000	10.267	-2.7	100	0.00
54 TMP Isopropylbenzene	10.000	10.275	-2.8	100	0.00
55 TMP Bromoform	10.000	10.118	-1.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.143	-1.4	100	0.00
58 TMP n-Propylbenzene	10.000	10.113	-1.1	100	0.00
59 TMP Bromobenzene	10.000	10.054	-0.5	100	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.792	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	10.163	-1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.870	1.3	100	0.00
63 TMP 2-Chlorotoluene	10.000	9.930	0.7	100	0.00
64 TMP 4-Chlorotoluene	10.000	9.827	1.7	100	0.00
65 TMP tert-Butylbenzene	10.000	9.942	0.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.000	0.0	100	0.00
67 TMP sec-Butylbenzene	10.000	9.844	1.6	100	0.00
68 TMP p-Isopropyltoluene	10.000	10.133	-1.3	100	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.879	1.2	100	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.915	0.9	100	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.074	-0.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.649	3.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.881	1.2	100	0.00
74 TMP Hexachlorobutadiene	10.000	9.973	0.3	100	0.00
75 TMP Naphthalene	10.000	9.429	5.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.133	-1.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.266	-0.8	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.674	2.0	100	0.00
5 TMP Chloromethane	0.883	0.863	2.3	100	0.00
6 TMP Vinyl chloride	0.732	0.746	-1.9	100	0.00
7 TMP Bromomethane	0.368	0.344	6.5	104	0.00
8 TMP Chloroethane	0.336	0.331	1.5	100	0.00
9 TMP Trichlorofluoromethane	0.870	0.846	2.8	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.035	5.4	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.243	-1.3	100	0.00
13 TMP Hexane	0.434	0.436	-0.5	100	0.00
14 TMP Methylene chloride	0.269	0.288	-7.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.760	-3.7	100	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.276	-1.5	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.932	0.0	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.517	-2.6	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.307	-3.7	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.316	0.0	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.290	-1.4	100	0.00
23 TMP Chloroform	0.477	0.458	4.0	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.178	2.7	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.716	-3.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.409	1.0	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.446	-1.4	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.365	-0.8	100	0.00
29 TMP Carbon tetrachloride	0.367	0.374	-1.9	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.064	-6.7	100	0.00
31 TMP Benzene	0.999	1.008	-0.9	100	0.00
32 TMP Trichloroethene	0.316	0.318	-0.6	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.294	0.7	100	0.00
34 TMP Bromodichloromethane	0.357	0.352	1.4	100	0.00
35 S Toluene-d8	0.960	0.941	2.0	100	0.00
36 TMP Dibromomethane	0.169	0.175	-3.6	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.418	2.6	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.856	0.2	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.481	0.6	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.268	-1.5	100	0.00
43 TMP 2-Hexanone	0.335	0.344	-2.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.496	-5.5	100	0.00
45 TMP Tetrachloroethene	0.342	0.336	1.8	100	0.00
46 TMP Dibromochloromethane	0.354	0.353	0.3	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.328	-0.3	100	0.00
48 TMP Chlorobenzene	0.925	0.938	-1.4	100	0.00
49 TMP Ethylbenzene	1.611	1.637	-1.6	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.350	-5.1	100	0.00
51 TMP m,p-Xylene	0.607	0.615	-1.3	100	0.00
52 TMP o-Xylene	0.595	0.608	-2.2	100	0.00
53 TMP Styrene	0.973	0.999	-2.7	100	0.00
54 TMP Isopropylbenzene	1.564	1.607	-2.7	100	0.00
55 TMP Bromoform	0.252	0.255	-1.2	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.856	-1.4	100	0.00
58 TMP n-Propylbenzene	3.281	3.318	-1.1	100	0.00
59 TMP Bromobenzene	0.770	0.775	-0.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.392	2.1	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.709	-1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.578	1.4	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.927	0.7	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.241	1.8	100	0.00
65 TMP tert-Butylbenzene	2.141	2.128	0.6	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.476	0.0	100	0.00
67 TMP sec-Butylbenzene	3.103	3.055	1.5	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.707	-1.3	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.417	1.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.448	0.9	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.390	-0.7	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.149	3.9	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.968	1.2	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.540	0.4	100	0.00
75 TMP Naphthalene	2.597	2.449	5.7	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.916	-1.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCM511

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	47211	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	36478	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	20261	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	12542	10.069	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.70%		
30) 1,2-Dichloroethane-d4	4.35	102	3019	10.599	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	106.00%		
35) Toluene-d8	5.98	98	44430	9.802	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	98.00%		
57) 4-Bromofluorobenzene	8.38	95	17351	10.143	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	101.40%		
Target Compounds							
							Qvalue
2) Ethanol	0.00		0	N.D.			
4) Dichlorodifluoromethane	1.08	85	31799	9.783	ppb		99
5) Chloromethane	1.22	50	40723	9.771	ppb		97
6] Vinyl chloride	1.29	62	35229	10.198	ppb		97
7) Bromomethane	1.53	94	16239m	9.339	ppb		
8] Chloroethane	1.59	64	15611	9.829	ppb		100
9) Trichlorofluoromethane	1.79	101	39943	9.726	ppb		96
10) 2-Propanol	2.41	45	312	No Calib			
11) Acetone	2.26	58	8163	46.444	ppb	#	85
12] 1,1-Dichloroethene	2.18	96	11491	10.126	ppb		83
13) Hexane	3.05	57	20568	10.044	ppb		97
14) Methylene chloride	2.60	84	13609	10.715	ppb		95
15) t-Butyl alcohol (TBA)	2.73	59	10780	49.443	ppb		99
16] Methyl t-butyl ether (...)	2.83	73	35895	10.370	ppb		94
17] trans-1,2-Dichloroethene	2.82	96	13025	10.134	ppb		98
18) Diisopropyl ether (DIPE)	3.24	45	43994	9.998	ppb		97
19] 1,1-Dichloroethane	3.18	63	24409	10.253	ppb		99
20) Ethyl t-butyl ether (E...)	3.55	87	14514	10.386	ppb		91
21) 2,2-Dichloropropane	3.66	77	14926	10.005	ppb		90
22] cis-1,2-Dichloroethene	3.67	96	13710	10.140	ppb		88
23) Chloroform	3.94	83	21601	9.592	ppb		92
24) 2-Butanone (MEK)	3.70	43	42119	48.782	ppb		99
25) t-Amyl methyl ether (T...)	4.49	73	33785	10.319	ppb		98
26] 1,2-Dichloroethane (EDC)	4.41	62	19323	9.902	ppb		97
27] 1,1,1-Trichloroethane	4.08	97	21039	10.124	ppb		94
28) 1,1-Dichloropropene	4.22	75	17223	10.072	ppb		97
29) Carbon tetrachloride	4.21	117	17656	10.188	ppb		98
31] Benzene	4.38	78	47570	10.086	ppb		94
32] Trichloroethene	4.93	95	15004	10.071	ppb		88
33) 1,2-Dichloropropane	5.13	63	13885	9.926	ppb		98
34) Bromodichloromethane	5.37	83	16626	9.853	ppb		83
36) Dibromomethane	5.23	93	8265	10.365	ppb		95

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

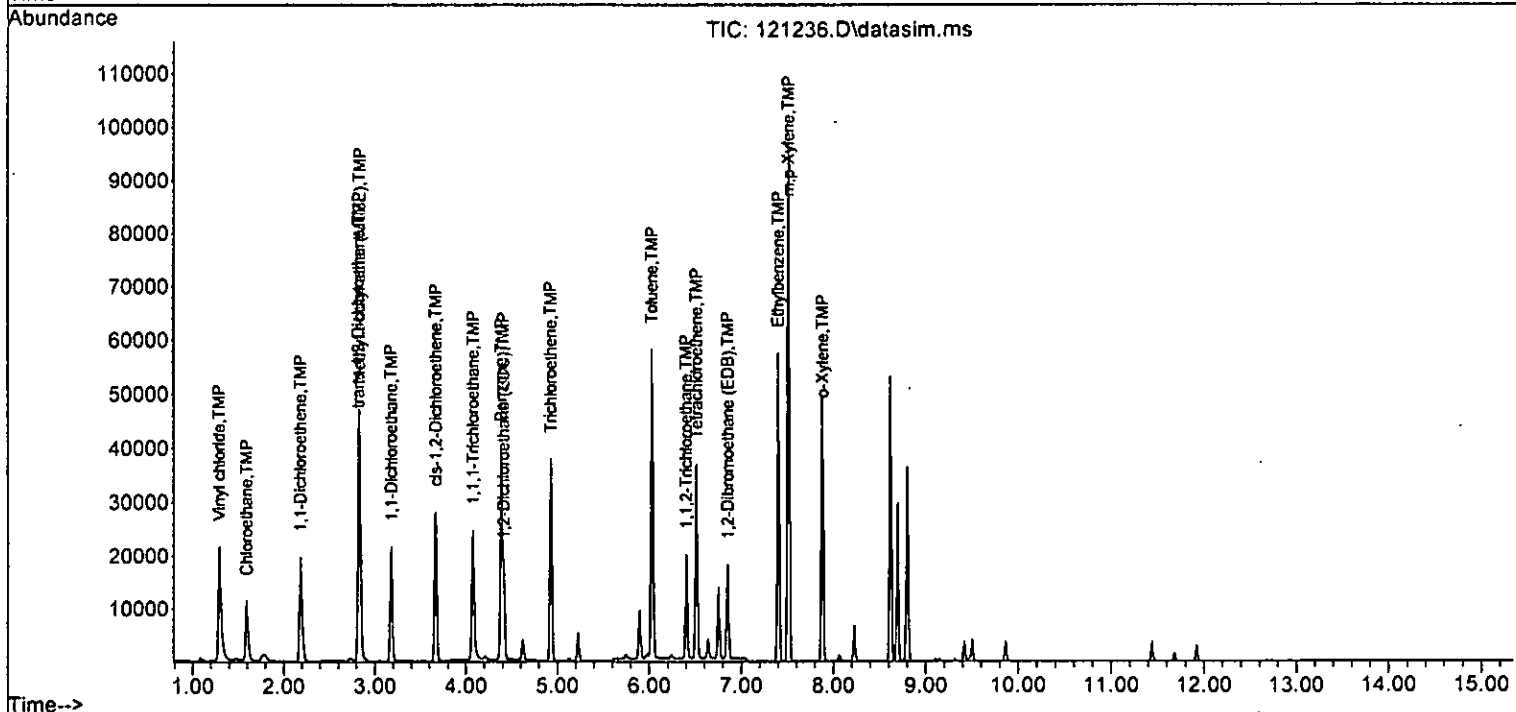
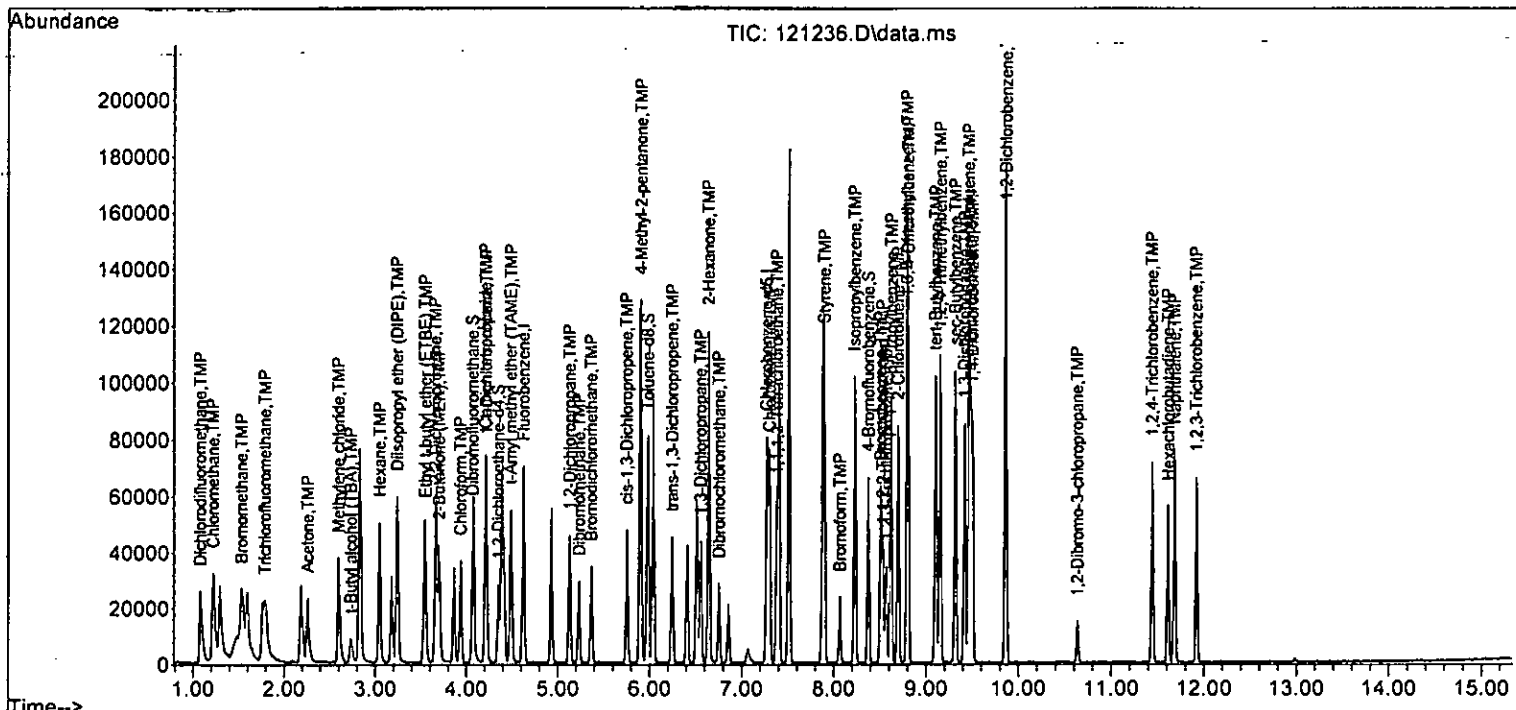
Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	12012	48.757	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	19722	9.748	ppb	99
40) Toluene	6.03	92	31218	9.979	ppb	92
41) trans-1,3-Dichloropropene	6.25	75	17541	9.943	ppb	97
42) 1,1,2-Trichloroethane	6.40	83	9767	10.153	ppb	97
43) 2-Hexanone	6.64	43	62666	51.220	ppb	97
44) 1,3-Dichloropropane	6.55	76	18090	10.558	ppb	100
45) Tetrachloroethene	6.51	164	12249	9.813	ppb	99
46) Dibromochloromethane	6.75	129	12864	9.970	ppb	97
47) 1,2-Dibromoethane (EDB)	6.85	107	11982	10.035	ppb	99
48) Chlorobenzene	7.30	112	34223	10.141	ppb	98
49) Ethylbenzene	7.40	91	59706	10.158	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	12772	10.518	ppb	95
51) m,p-Xylene	7.51	106	44834	20.237	ppb #	69
52) o-Xylene	7.88	106	22172	10.217	ppb	98
53) Styrene	7.90	104	36435	10.267	ppb	100
54) Isopropylbenzene	8.23	105	58617	10.275	ppb	98
55) Bromoform	8.07	173	9309	10.118	ppb	96
58) n-Propylbenzene	8.63	91	67235	10.113	ppb	98
59) Bromobenzene	8.51	156	15695	10.054	ppb	97
60) 1,3,5-Trimethylbenzene	8.79	105	48463	9.792	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	14366	10.163	ppb	91
62) 1,2,3-Trichloropropane	8.57	75	11716	9.870	ppb	97
63) 2-Chlorotoluene	8.70	91	39041	9.930	ppb	95
64) 4-Chlorotoluene	8.81	91	45413	9.827	ppb	97
65) tert-Butylbenzene	9.10	119	43121	9.942	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	50168	10.000	ppb	95
67) sec-Butylbenzene	9.31	105	61889	9.844	ppb	100
68) p-Isopropyltoluene	9.46	119	54856	10.133	ppb	99
69) 1,3-Dichlorobenzene	9.42	146	28704	9.879	ppb	98
70) 1,4-Dichlorobenzene	9.50	146	29345	9.915	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	28163	10.074	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.63	75	3029	9.649	ppb	98
73) 1,2,4-Trichlorobenzene	11.44	180	19616	9.881	ppb	99
74) Hexachlorobutadiene	11.61	225	10943	9.973	ppb	93
75) Naphthalene	11.68	128	49612	9.429	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	18559	10.133	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121236.D  
 Acq On : 13 Dec 2022 01:36 am  
 Operator : LM  
 Sample : 10 ppb 8260 ICAL 68-25N  
 Misc : soil/water  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S	Dibromofluoromethane	10.000	10.066	-0.7	100	0.00
4 TMP	Dichlorodifluoromethane	20.000	19.846	0.8	100	0.00
5 TMP	Chloromethane	20.000	19.148	4.3	100	0.00
6 TMP	Vinyl chloride	20.000	19.794	1.0	100	0.00
7 TMP	Bromomethane	20.000	21.535	-7.7	100	0.00
8 TMP	Chloroethane	20.000	19.344	3.3	100	0.00
9 TMP	Trichlorofluoromethane	20.000	19.153	4.2	100	0.00
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	100.000	94.914	5.1	100	0.00
12 TMP	1,1-Dichloroethene	20.000	19.447	2.8	100	0.00
13 TMP	Hexane	20.000	19.153	4.2	100	0.00
14 TMP	Methylene chloride	20.000	19.409	3.0	100	0.00
15 TMP	t-Butyl alcohol (TBA)	100.000	99.207	0.8	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	20.000	19.849	0.8	100	0.00
17 TMP	trans-1,2-Dichloroethene	20.000	19.091	4.5	100	0.00
18 TMP	Diisopropyl ether (DIPE)	20.000	19.331	3.3	100	0.00
19 TMP	1,1-Dichloroethane	20.000	19.569	2.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	20.000	19.346	3.3	100	0.00
21 TMP	2,2-Dichloropropane	20.000	17.724	11.4	100	0.00
22 TMP	cis-1,2-Dichloroethene	20.000	19.353	3.2	100	0.00
23 TMP	Chloroform	20.000	18.861	5.7	100	0.00
24 TMP	2-Butanone (MEK)	100.000	91.850	8.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	20.000	19.319	3.4	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	20.000	18.982	5.1	100	0.00
27 TMP	1,1,1-Trichloroethane	20.000	19.627	1.9	100	0.00
28 TMP	1,1-Dichloropropene	20.000	19.047	4.8	100	0.00
29 TMP	Carbon tetrachloride	20.000	20.073	-0.4	100	0.00
30 S	1,2-Dichloroethane-d4	10.000	10.333	-3.3	100	0.00
31 TMP	Benzene	20.000	19.365	3.2	100	0.00
32 TMP	Trichloroethene	20.000	19.305	3.5	100	0.00
33 TMP	1,2-Dichloropropane	20.000	18.751	6.2	100	0.00
34 TMP	Bromodichloromethane	20.000	18.979	5.1	100	0.00
35 S	Toluene-d8	10.000	9.926	0.7	100	0.00
36 TMP	Dibromomethane	20.000	20.136	-0.7	100	0.00
37 TMP	4-Methyl-2-pentanone	100.000	98.234	1.8	100	0.00
38 TMP	cis-1,3-Dichloropropene	20.000	19.182	4.1	100	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP	Toluene	20.000	18.932	5.3	100	0.00
41 TMP	trans-1,3-Dichloropropene	20.000	19.505	2.5	100	0.00
42 TMP	1,1,2-Trichloroethane	20.000	19.195	4.0	100	0.00
43 TMP	2-Hexanone	100.000	97.771	2.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	20.000	19.720	1.4	100	0.00
45 TMP Tetrachloroethene	20.000	18.629	6.9	100	0.00
46 TMP Dibromochloromethane	20.000	20.035	-0.2	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	20.000	19.134	4.3	100	0.00
48 TMP Chlorobenzene	20.000	19.471	2.6	100	0.00
49 TMP Ethylbenzene	20.000	19.163	4.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	20.000	19.681	1.6	100	0.00
51 TMP m,p-Xylene	40.000	37.969	5.1	100	0.00
52 TMP o-Xylene	20.000	19.259	3.7	100	0.00
53 TMP Styrene	20.000	19.253	3.7	100	0.00
54 TMP Isopropylbenzene	20.000	19.098	4.5	100	0.00
55 TMP Bromoform	20.000	19.634	1.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.052	-0.5	100	0.00
58 TMP n-Propylbenzene	20.000	19.472	2.6	100	0.00
59 TMP Bromobenzene	20.000	19.854	0.7	100	0.00
60 TMP 1,3,5-Trimethylbenzene	20.000	19.197	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	20.000	19.894	0.5	100	0.00
62 TMP 1,2,3-Trichloropropane	20.000	19.669	1.7	100	0.00
63 TMP 2-Chlorotoluene	20.000	19.483	2.6	100	0.00
64 TMP 4-Chlorotoluene	20.000	19.027	4.9	100	0.00
65 TMP tert-Butylbenzene	20.000	19.521	2.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	20.000	19.510	2.4	100	0.00
67 TMP sec-Butylbenzene	20.000	19.824	0.9	100	0.00
68 TMP p-Isopropyltoluene	20.000	19.733	1.3	100	0.00
69 TMP 1,3-Dichlorobenzene	20.000	19.624	1.9	100	0.00
70 TMP 1,4-Dichlorobenzene	20.000	19.537	2.3	100	0.00
71 TMP 1,2-Dichlorobenzene	20.000	19.726	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	20.000	19.964	0.2	100	0.00
73 TMP 1,2,4-Trichlorobenzene	20.000	20.297	-1.5	100	0.00
74 TMP Hexachlorobutadiene	20.000	20.013	-0.1	100	0.00
75 TMP Naphthalene	20.000	18.353	8.2	100	0.00
76 TMP 1,2,3-Trichlorobenzene	20.000	20.045	-0.2	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.266	-0.8	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.683	0.7	100	0.00
5 TMP	Chloromethane	0.883	0.845	4.3	100	0.00
6 TMP	Vinyl chloride	0.732	0.724	1.1	100	0.00
7 TMP	Bromomethane	0.368	0.397	-7.9	100	0.00
8 TMP	Chloroethane	0.336	0.325	3.3	100	0.00
9 TMP	Trichlorofluoromethane	0.870	0.833	4.3	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.035	5.4	100	0.00
12 TMP	1,1-Dichloroethene	0.240	0.234	2.5	100	0.00
13 TMP	Hexane	0.434	0.415	4.4	100	0.00
14 TMP	Methylene chloride	0.269	0.261	3.0	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.728	0.7	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.260	4.4	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.901	3.3	100	0.00
19 TMP	1,1-Dichloroethane	0.504	0.493	2.2	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.286	3.4	100	0.00
21 TMP	2,2-Dichloropropane	0.316	0.280	11.4	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.277	3.1	100	0.00
23 TMP	Chloroform	0.477	0.450	5.7	100	0.00
24 TMP	2-Butanone (MEK)	0.183	0.168	8.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.670	3.5	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.392	5.1	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.432	1.8	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.345	4.7	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.368	-0.3	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP	Benzene	0.999	0.967	3.2	100	0.00
32 TMP	Trichloroethene	0.316	0.305	3.5	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.278	6.1	100	0.00
34 TMP	Bromodichloromethane	0.357	0.339	5.0	100	0.00
35 S	Toluene-d8	0.960	0.953	0.7	100	0.00
36 TMP	Dibromomethane	0.169	0.170	-0.6	100	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.411	4.2	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.858	0.812	5.4	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.484	0.472	2.5	100	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.253	4.2	100	0.00
43 TMP	2-Hexanone	0.335	0.328	2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.463	1.5	100	0.00
45 TMP Tetrachloroethene	0.342	0.319	6.7	100	0.00
46 TMP Dibromochloromethane	0.354	0.354	0.0	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.313	4.3	100	0.00
48 TMP Chlorobenzene	0.925	0.901	2.6	100	0.00
49 TMP Ethylbenzene	1.611	1.544	4.2	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.328	1.5	100	0.00
51 TMP m,p-Xylene	0.607	0.576	5.1	100	0.00
52 TMP o-Xylene	0.595	0.573	3.7	100	0.00
53 TMP Styrene	0.973	0.937	3.7	100	0.00
54 TMP Isopropylbenzene	1.564	1.493	4.5	100	0.00
55 TMP Bromoform	0.252	0.248	1.6	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.849	-0.6	100	0.00
58 TMP n-Propylbenzene	3.281	3.195	2.6	100	0.00
59 TMP Bromobenzene	0.770	0.765	0.6	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.345	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.694	0.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.576	1.7	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.890	2.6	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.170	4.9	100	0.00
65 TMP tert-Butylbenzene	2.141	2.089	2.4	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.415	2.5	100	0.00
67 TMP sec-Butylbenzene	3.103	3.076	0.9	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.636	1.3	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.407	1.9	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.427	2.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.361	1.4	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.155	0.0	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.994	-1.4	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.542	0.0	100	0.00
75 TMP Naphthalene	2.597	2.383	8.2	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.906	-0.2	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	46537	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	36436	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19498	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	12360	10.066	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	100.70%		
30) 1,2-Dichloroethane-d4	4.36	102	2901	10.333	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	103.30%		
35) Toluene-d8	5.98	98	44349	9.926	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	99.30%		
57) 4-Bromofluorobenzene	8.38	95	16547	10.052	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	100.50%		
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.08	85	63589	19.846	ppb	98	
5) Chloromethane	1.22	50	78665	19.148	ppb	95	
6] Vinyl chloride	1.29	62	67404	19.794	ppb	96	
7) Bromomethane	1.53	94	36911	21.535	ppb	71	
8] Chloroethane	1.60	64	30285	19.344	ppb	96	
9) Trichlorofluoromethane	1.79	101	77534	19.153	ppb	95	
10) 2-Propanol	2.40	45	206	No Calib			
11) Acetone	2.26	58	16444	94.914	ppb	91	
12] 1,1-Dichloroethene	2.19	96	21753	19.447	ppb	98	
13) Hexane	3.05	57	38661	19.153	ppb	98	
14) Methylene chloride	2.60	84	24299	19.409	ppb	97	
15) t-Butyl alcohol (TBA)	2.73	59	21321	99.207	ppb	98	
16] Methyl t-butyl ether (...)	2.84	73	67723	19.849	ppb	100	
17] trans-1,2-Dichloroethene	2.83	96	24187	19.091	ppb	84	
18) Diisopropyl ether (OIPE)	3.24	45	83844	19.331	ppb	98	
19] 1,1-Dichloroethane	3.18	63	45923	19.569	ppb	98	
20) Ethyl t-butyl ether (E...)	3.55	87	26650	19.346	ppb	97	
21) 2,2-Dichloropropane	3.66	77	26063	17.724	ppb	90	
22] cis-1,2-Dichloroethene	3.67	96	25792	19.353	ppb	90	
23) Chloroform	3.94	83	41867	18.861	ppb	95	
24) 2-Butanone (MEK)	3.70	43	78173	91.850	ppb	99	
25) t-Amyl methyl ether (T...)	4.49	73	62350	19.319	ppb	98	
26] 1,2-Dichloroethane (EDC)	4.41	62	36513	18.982	ppb	97	
27] 1,1,1-Trichloroethane	4.08	97	40205	19.627	ppb	95	
28) 1,1-Dichloropropene	4.22	75	32106	19.047	ppb	98	
29) Carbon tetrachloride	4.21	117	34292	20.073	ppb	95	
31] Benzene	4.39	78	90028	19.365	ppb	94	
32] Trichloroethene	4.93	95	28352	19.305	ppb	91	
33] 1,2-Dichloropropane	5.13	63	25854	18.751	ppb	100	
34) Bromodichloromethane	5.37	83	31570	18.979	ppb	96	
36) Dibromomethane	5.23	93	15827	20.136	ppb	94	

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

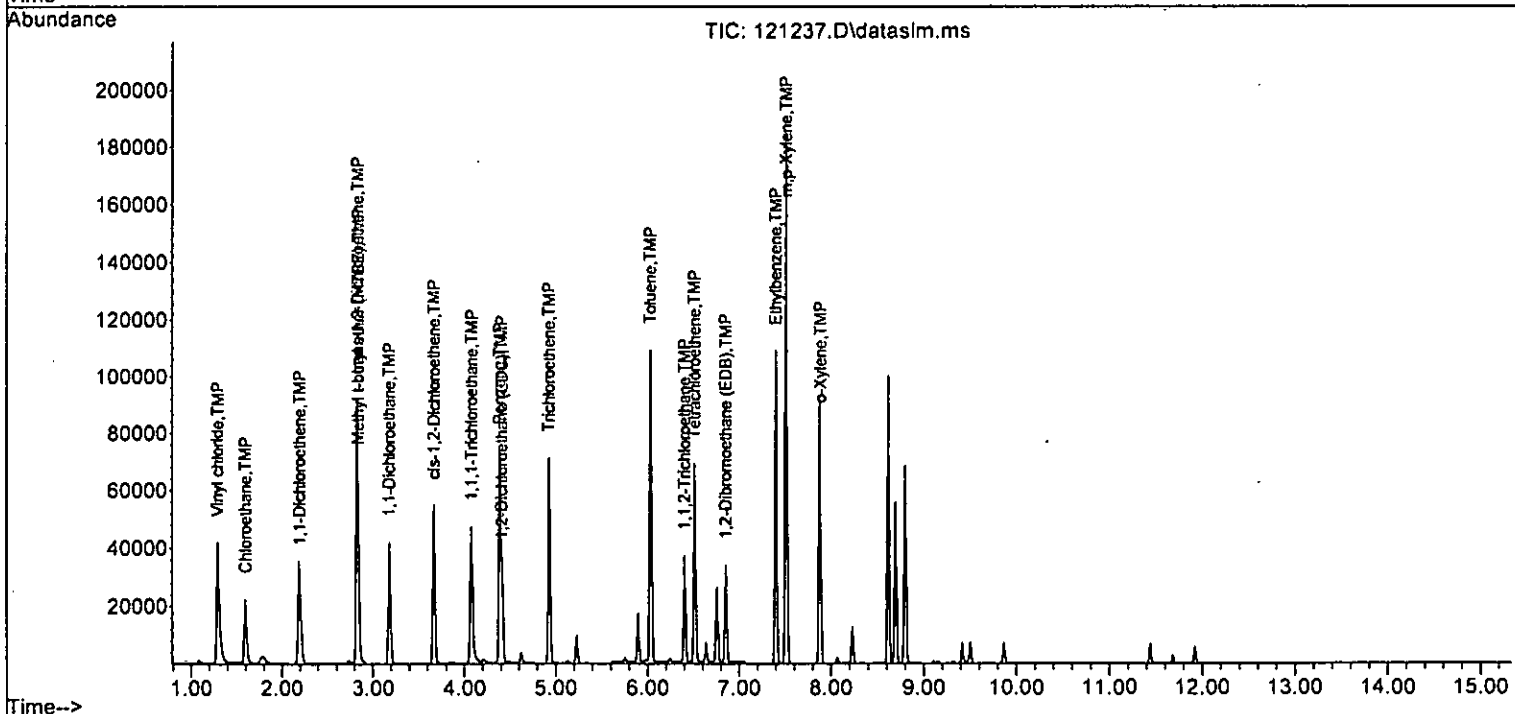
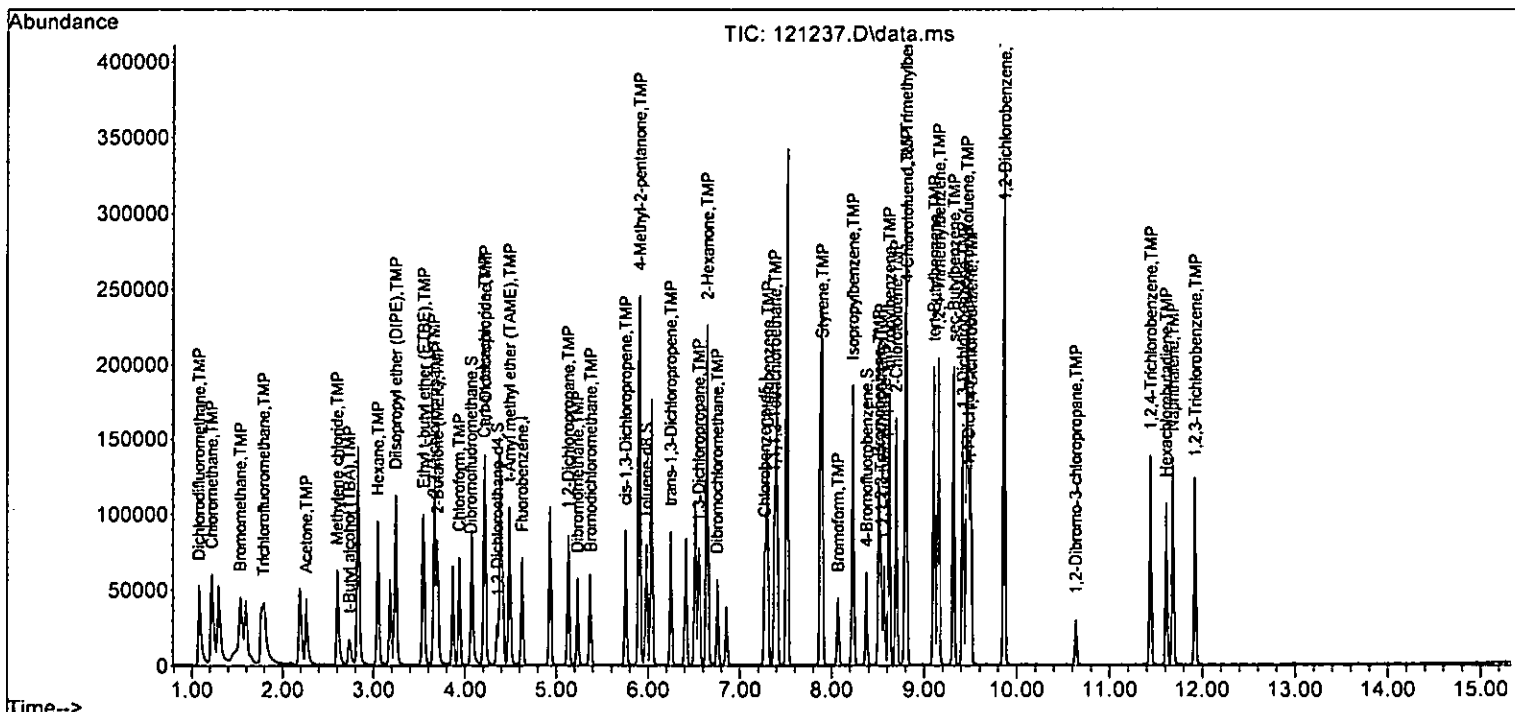
Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	23856	98.234	ppb	89
38) cis-1,3-Dichloropropene	5.75	75	38257	19.182	ppb	98
40] Toluene	6.03	92	59157	18.932	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	34368	19.505	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	18444	19.195	ppb	97
43) 2-Hexanone	6.64	43	119481	97.771	ppb	97
44) 1,3-Dichloropropane	6.55	76	33750	19.720	ppb	98
45] Tetrachloroethene	6.51	164	23226	18.629	ppb	99
46) Dibromochloromethane	6.75	129	25821	20.035	ppb	98
47] 1,2-Dibromoethane (EDB)	6.85	107	22821	19.134	ppb	99
48) Chlorobenzene	7.30	112	65636	19.471	ppb	98
49] Ethylbenzene	7.40	91	112510	19.163	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	23872	19.681	ppb	96
51] m,p-Xylene	7.51	106	84021	37.969	ppb #	71
52] o-Xylene	7.88	106	41746	19.259	ppb	98
53) Styrene	7.90	104	68247	19.253	ppb	98
54) Isopropylbenzene	8.23	105	108826	19.098	ppb	99
55) Bromoform	8.07	173	18043	19.634	ppb	91
58) n-Propylbenzene	8.62	91	124581	19.472	ppb	97
59) Bromobenzene	8.51	156	29827	19.854	ppb	96
60) 1,3,5-Trimethylbenzene	8.80	105	91430	19.197	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	27062	19.894	ppb	94
62) 1,2,3-Trichloropropane	8.57	75	22468	19.669	ppb	96
63) 2-Chlorotoluene	8.70	91	73715	19.483	ppb	100
64) 4-Chlorotoluene	8.81	91	84617	19.027	ppb	100
65) tert-Butylbenzene	9.10	119	81481	19.521	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	94194	19.510	ppb	100
67) sec-Butylbenzene	9.32	105	119935	19.824	ppb	98
68) p-Isopropyltoluene	9.46	119	102802	19.733	ppb	99
69) 1,3-Dichlorobenzene	9.42	146	54872	19.624	ppb	95
70) 1,4-Dichlorobenzene	9.51	146	55647	19.537	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	53070	19.726	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.63	75	6031	19.964	ppb	97
73) 1,2,4-Trichlorobenzene	11.44	180	38775	20.297	ppb	100
74) Hexachlorobutadiene	11.61	225	21132	20.013	ppb	96
75) Naphthalene	11.68	128	92933	18.353	ppb	96
76) 1,2,3-Trichlorobenzene	11.92	180	35330	20.045	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121237.D  
 Acq On : 13 Dec 2022 01:58 am  
 Operator : LM  
 Sample : 20 ppb 8260 ICAL 68-250  
 Misc : soil/water  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:53 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.932	0.7	100	0.00
4 TMP Dichlorodifluoromethane	50.000	50.117	-0.2	100	0.00
5 TMP Chloromethane	50.000	48.681	2.6	100	0.00
6 TMP Vinyl chloride	50.000	50.308	-0.6	100	0.00
7 TMP Bromomethane	50.000	52.732	-5.5	100	0.00
8 TMP Chloroethane	50.000	47.793	4.4	100	0.00
9 TMP Trichlorofluoromethane	50.000	50.171	-0.3	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-0.02
11 TMP Acetone	250.000	234.746	6.1	100	0.00
12 TMP 1,1-Dichloroethene	50.000	49.455	1.1	100	0.00
13 TMP Hexane	50.000	48.989	2.0	100	0.00
14 TMP Methylene chloride	50.000	48.544	2.9	100	0.00
15 TMP t-Butyl alcohol (TBA)	250.000	241.695	3.3	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	50.000	49.919	0.2	100	0.00
17 TMP trans-1,2-Dichloroethene	50.000	47.920	4.2	100	0.00
18 TMP Diisopropyl ether (DIPE)	50.000	49.444	1.1	100	0.00
19 TMP 1,1-Dichloroethane	50.000	49.817	0.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	50.000	50.377	-0.8	100	0.00
21 TMP 2,2-Dichloropropane	50.000	47.364	5.3	100	0.00
22 TMP cis-1,2-Dichloroethene	50.000	49.369	1.3	100	0.00
23 TMP Chloroform	50.000	47.951	4.1	100	0.00
24 TMP 2-Butanone (MEK)	250.000	233.064	6.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	50.000	49.524	1.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	50.000	48.150	3.7	100	0.00
27 TMP 1,1,1-Trichloroethane	50.000	50.544	-1.1	100	0.00
28 TMP 1,1-Dichloropropene	50.000	48.794	2.4	100	0.00
29 TMP Carbon tetrachloride	50.000	51.607	-3.2	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.036	-0.4	100	0.00
31 TMP Benzene	50.000	49.122	1.8	100	0.00
32 TMP Trichloroethene	50.000	49.788	0.4	100	0.00
33 TMP 1,2-Dichloropropane	50.000	48.366	3.3	100	0.00
34 TMP Bromodichloromethane	50.000	49.586	0.8	100	0.00
35 S Toluene-d8	10.000	10.306	-3.1	100	0.00
36 TMP Dibromomethane	50.000	51.229	-2.5	100	0.00
37 TMP 4-Methyl-2-pentanone	250.000	247.845	0.9	100	0.00
38 TMP cis-1,3-Dichloropropene	50.000	48.588	2.8	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	50.000	47.454	5.1	100	0.00
41 TMP trans-1,3-Dichloropropene	50.000	49.657	0.7	100	0.00
42 TMP 1,1,2-Trichloroethane	50.000	48.837	2.3	100	0.00
43 TMP 2-Hexanone	250.000	240.345	3.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	50.000	49.844	0.3	100	0.00
45 TMP Tetrachloroethene	50.000	46.828	6.3	100	0.00
46 TMP Dibromochloromethane	50.000	49.643	0.7	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	50.000	48.523	3.0	100	0.00
48 TMP Chlorobenzene	50.000	48.429	3.1	100	0.00
49 TMP Ethylbenzene	50.000	47.821	4.4	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	50.000	49.496	1.0	100	0.00
51 TMP m,p-Xylene	100.000	94.459	5.5	100	0.00
52 TMP o-Xylene	50.000	47.696	4.6	100	0.00
53 TMP Styrene	50.000	48.347	3.3	100	0.00
54 TMP Isopropylbenzene	50.000	48.121	3.8	100	0.00
55 TMP Bromoform	50.000	50.911	-1.8	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.701	3.0	100	0.00
58 TMP n-Propylbenzene	50.000	48.518	3.0	100	0.00
59 TMP Bromobenzene	50.000	49.460	1.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	50.000	47.614	4.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	50.000	48.728	2.5	100	0.00
62 TMP 1,2,3-Trichloropropane	50.000	48.135	3.7	100	0.00
63 TMP 2-Chlorotoluene	50.000	47.863	4.3	100	0.00
64 TMP 4-Chlorotoluene	50.000	47.608	4.8	100	0.00
65 TMP tert-Butylbenzene	50.000	49.036	1.9	100	0.00
66 TMP 1,2,4-Trimethylbenzene	50.000	48.151	3.7	100	0.00
67 TMP sec-Butylbenzene	50.000	49.132	1.7	100	0.00
68 TMP p-Isopropyltoluene	50.000	49.744	0.5	100	0.00
69 TMP 1,3-Dichlorobenzene	50.000	49.230	1.5	100	0.00
70 TMP 1,4-Dichlorobenzene	50.000	48.438	3.1	100	0.00
71 TMP 1,2-Dichlorobenzene	50.000	48.960	2.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	50.000	49.268	1.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	50.000	51.142	-2.3	100	0.00
74 TMP Hexachlorobutadiene	50.000	50.362	-0.7	100	0.00
75 TMP Naphthalene	50.000	45.598	8.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	50.000	50.171	-0.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.262	0.8	100	0.00
4 TMP Dichlorodifluoromethane	0.688	0.690	-0.3	100	0.00
5 TMP Chloromethane	0.883	0.860	2.6	100	0.00
6 TMP Vinyl chloride	0.732	0.736	-0.5	100	0.00
7 TMP Bromomethane	0.368	0.388	-5.4	100	0.00
8 TMP Chloroethane	0.336	0.322	4.2	100	0.00
9 TMP Trichlorofluoromethane	0.870	0.873	-0.3	100	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-0.02
11 TMP Acetone	0.037	0.035	5.4	100	0.00
12 TMP 1,1-Dichloroethene	0.240	0.238	0.8	100	0.00
13 TMP Hexane	0.434	0.425	2.1	100	0.00
14 TMP Methylene chloride	0.269	0.261	3.0	100	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.732	0.1	100	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.261	4.0	100	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.922	1.1	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.502	0.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.298	-0.7	100	0.00
21 TMP 2,2-Dichloropropane	0.316	0.299	5.4	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.283	1.0	100	0.00
23 TMP Chloroform	0.477	0.457	4.2	100	0.00
24 TMP 2-Butanone (MEK)	0.183	0.170	7.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.687	1.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.398	3.6	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.445	-1.1	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.353	2.5	100	0.00
29 TMP Carbon tetrachloride	0.367	0.379	-3.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP Benzene	0.999	0.981	1.8	100	0.00
32 TMP Trichloroethene	0.316	0.314	0.6	100	0.00
33 TMP 1,2-Dichloropropane	0.296	0.287	3.0	100	0.00
34 TMP Bromodichloromethane	0.357	0.354	0.8	100	0.00
35 S Toluene-d8	0.960	0.990	-3.1	100	0.00
36 TMP Dibromomethane	0.169	0.173	-2.4	100	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.052	0.0	100	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.416	3.0	100	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP Toluene	0.858	0.814	5.1	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.480	0.8	100	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.258	2.3	100	0.00
43 TMP 2-Hexanone	0.335	0.322	3.9	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.468	0.4	100	0.00
45 TMP Tetrachloroethene	0.342	0.320	6.4	100	0.00
46 TMP Dibromochloromethane	0.354	0.351	0.8	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.318	2.8	100	0.00
48 TMP Chlorobenzene	0.925	0.896	3.1	100	0.00
49 TMP Ethylbenzene	1.611	1.541	4.3	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.330	0.9	100	0.00
51 TMP m,p-Xylene	0.607	0.574	5.4	100	0.00
52 TMP o-Xylene	0.595	0.567	4.7	100	0.00
53 TMP Styrene	0.973	0.941	3.3	100	0.00
54 TMP Isopropylbenzene	1.564	1.505	3.8	100	0.00
55 TMP Bromoform	0.252	0.257	-2.0	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.819	3.0	100	0.00
58 TMP n-Propylbenzene	3.281	3.184	3.0	100	0.00
59 TMP Bromobenzene	0.770	0.762	1.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.326	4.8	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.680	2.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.564	3.8	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.858	4.3	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.172	4.8	100	0.00
65 TMP tert-Butylbenzene	2.141	2.099	2.0	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.385	3.7	100	0.00
67 TMP sec-Butylbenzene	3.103	3.049	1.7	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.658	0.5	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.412	1.5	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.415	3.1	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.351	2.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.153	1.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.002	-2.2	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.545	-0.6	100	0.00
75 TMP Naphthalene	2.597	2.368	8.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.907	-0.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	46625	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	37972	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	20328	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	12218	9.932	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.30%
30) 1,2-Dichloroethane-d4	4.35	102	2823	10.036	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	100.40%
35) Toluene-d8	5.98	98	46137	10.306	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	103.10%
57) 4-Bromofluorobenzene	8.38	95	16649	9.701	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	97.00%
Target Compounds						
2) Ethanol	0.00		0	N.D.		Qvalue
4) Dichlorodifluoromethane	1.08	85	160882	50.117	ppb	99
5) Chloromethane	1.22	50	200371	48.681	ppb	99
6] Vinyl chloride	1.29	62	171639	50.308	ppb	94
7) Bromomethane	1.53	94	90556	52.732	ppb	68
8] Chloroethane	1.59	64	74967	47.793	ppb	99
9) Trichlorofluoromethane	1.79	101	203487	50.171	ppb	99
10) 2-Propanol	2.39	45	405	No Calib		
11) Acetone	2.25	58	40747	234.746	ppb	91
12] 1,1-Dichloroethene	2.19	96	55425	49.455	ppb	85
13) Hexane	3.05	57	99072	48.989	ppb	98
14) Methylene chloride	2.60	84	60890	48.544	ppb	97
15) t-Butyl alcohol (TBA)	2.73	59	52042	241.695	ppb	96
16] Methyl t-butyl ether (...)	2.83	73	170643	49.919	ppb	97
17] trans-1,2-Dichloroethene	2.82	96	60828	47.920	ppb	97
18) Diisopropyl ether (DIPE)	3.24	45	214860	49.444	ppb	99
19] 1,1-Dichloroethane	3.18	63	117130	49.817	ppb	100
20) Ethyl t-butyl ether (E...)	3.54	87	69528	50.377	ppb	97
21) 2,2-Dichloropropane	3.66	77	69780	47.364	ppb	95
22] cis-1,2-Dichloroethene	3.67	96	65920	49.369	ppb	86
23) Chloroform	3.94	83	106640	47.951	ppb	95
24) 2-Butanone (MEK)	3.70	43	198735	233.064	ppb	99
25) t-Amyl methyl ether (T...)	4.49	73	160139	49.524	ppb	97
26] 1,2-Dichloroethane (EDC)	4.41	62	92792	48.150	ppb	97
27] 1,1,1-Trichloroethane	4.08	97	103733	50.544	ppb	93
28) 1,1-Dichloropropene	4.22	75	82405	48.794	ppb	97
29) Carbon tetrachloride	4.21	117	88329	51.607	ppb	100
31] Benzene	4.39	78	228800	49.122	ppb	95
32] Trichloroethene	4.93	95	73258	49.788	ppb	88
33) 1,2-Dichloropropane	5.13	63	66814	48.366	ppb	98
34) Bromodichloromethane	5.37	83	82637	49.586	ppb	87
36) Dibromomethane	5.22	93	40342	51.229	ppb	88

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

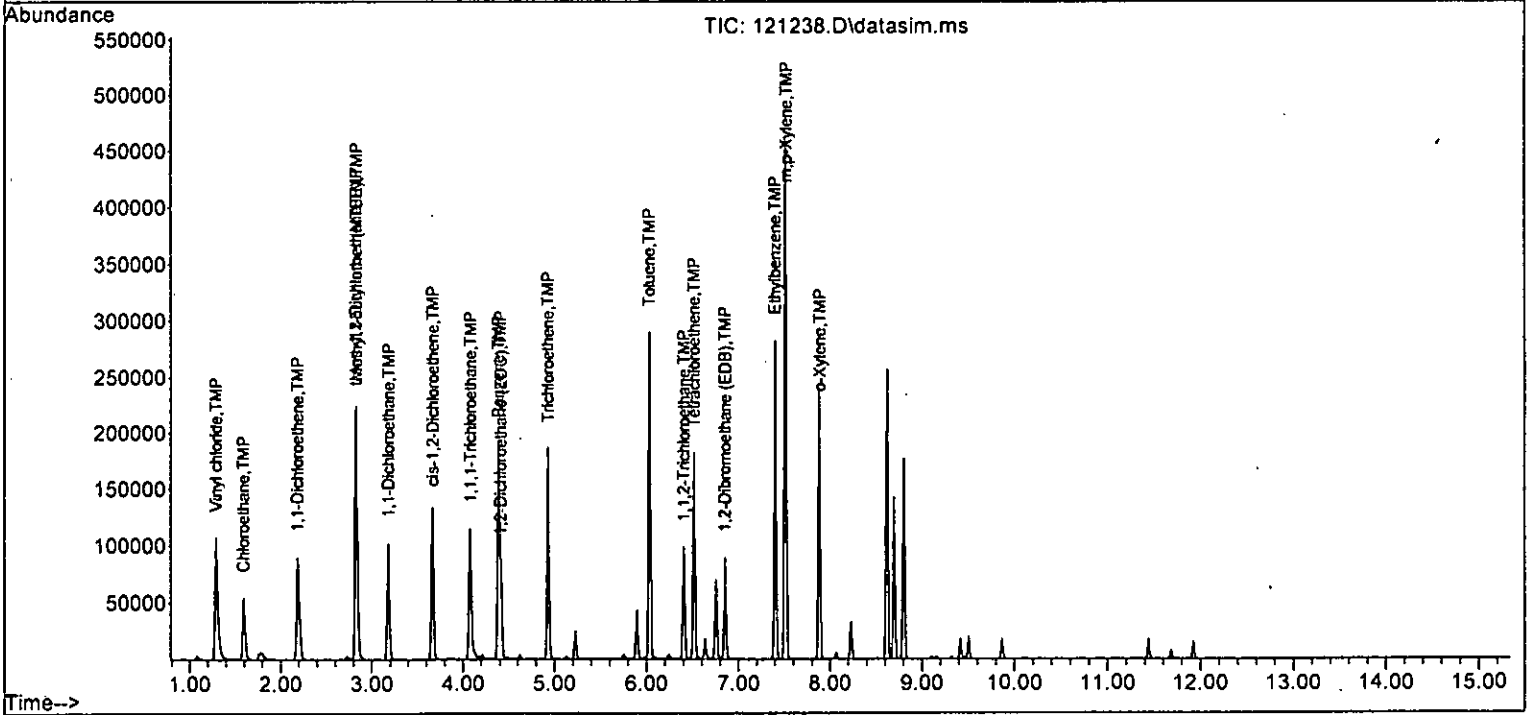
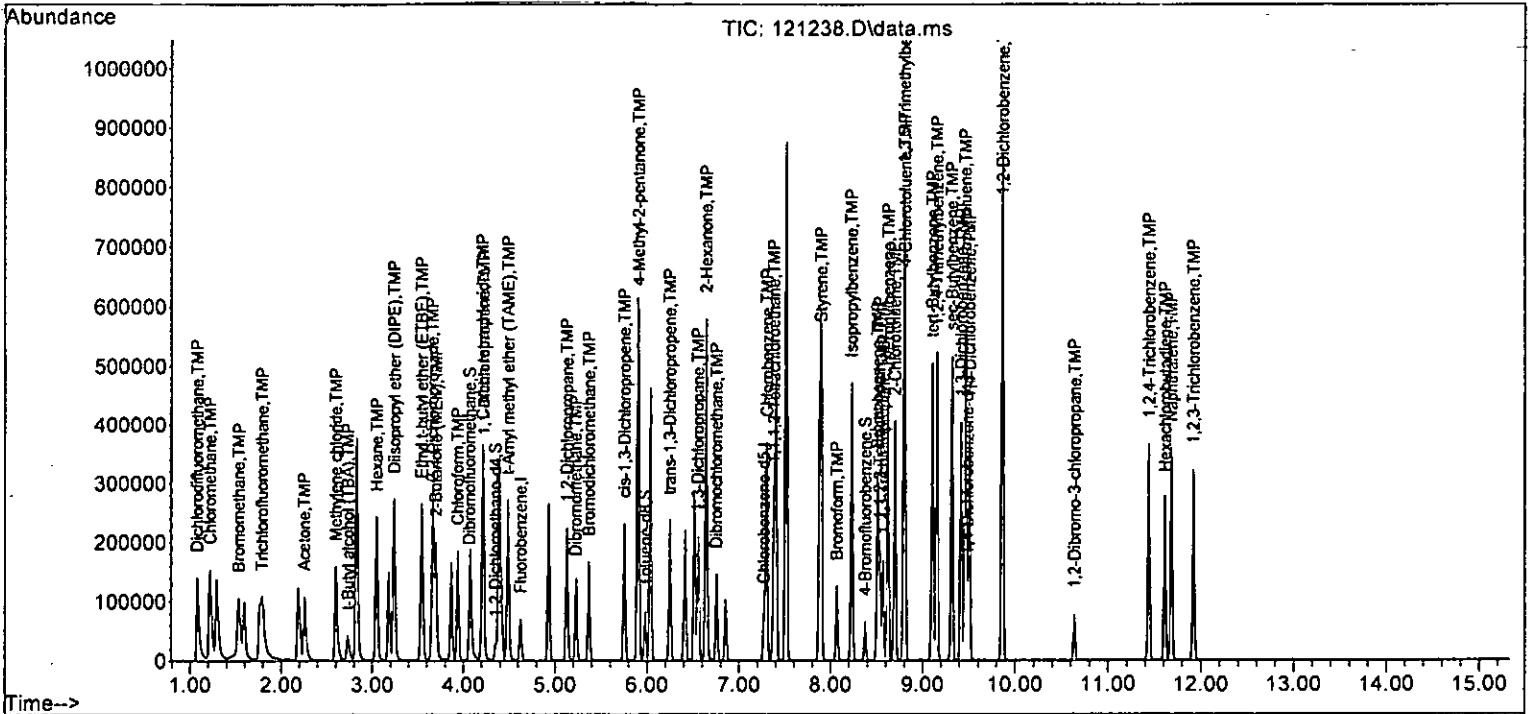
Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	60303	247.845	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	97086	48.588	ppb	99
40] Toluene	6.03	92	154527	47.454	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	91187	49.657	ppb	97
42] 1,1,2-Trichloroethane	6.40	83	48904	48.837	ppb	97
43) 2-Hexanone	6.64	43	306095	240.345	ppb	96
44) 1,3-Dichloropropane	6.55	76	88903	49.844	ppb	96
45] Tetrachloroethene	6.51	164	60846	46.828	ppb	98
46) Dibromochloromethane	6.75	129	66676	49.643	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	60311	48.523	ppb	99
48) Chlorobenzene	7.30	112	170131	48.429	ppb	99
49] Ethylbenzene	7.40	91	292600	47.821	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	62567	49.496	ppb	97
51] m,p-Xylene	7.52	106	217837	94.459	ppb	100
52] o-Xylene	7.89	106	107745	47.696	ppb	98
53) Styrene	7.90	104	178605	48.347	ppb	98
54) Isopropylbenzene	8.23	105	285775	48.121	ppb	98
55) Bromoform	8.07	173	48759	50.911	ppb	92
58) n-Propylbenzene	8.63	91	323625	48.518	ppb	95
59) Bromobenzene	8.51	156	77466	49.460	ppb	98
60) 1,3,5-Trimethylbenzene	8.80	105	236431	47.614	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.53	83	69108	48.728	ppb	97
62) 1,2,3-Trichloropropane	8.57	75	57325	48.135	ppb	96
63) 2-Chlorotoluene	8.70	91	188806	47.863	ppb	98
64) 4-Chlorotoluene	8.81	91	220731	47.608	ppb	97
65) tert-Butylbenzene	9.10	119	213389	49.036	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	242363	48.151	ppb	97
67) sec-Butylbenzene	9.32	105	309899	49.132	ppb	99
68) p-Isopropyltoluene	9.46	119	270183	49.744	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	143514	49.230	ppb	98
70) 1,4-Dichlorobenzene	9.51	146	143839	48.438	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	137330	48.960	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.64	75	15517	49.268	ppb	86
73) 1,2,4-Trichlorobenzene	11.44	180	101859	51.142	ppb	99
74) Hexachlorobutadiene	11.61	225	55442	50.362	ppb	91
75) Naphthalene	11.68	128	240720	45.598	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	92190	50.171	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121238.D  
 Acq On : 13 Dec 2022 02:21 am  
 Operator : LM  
 Sample : 50 ppb 8260 ICAL 68-25Q  
 Misc : soil/water  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS11

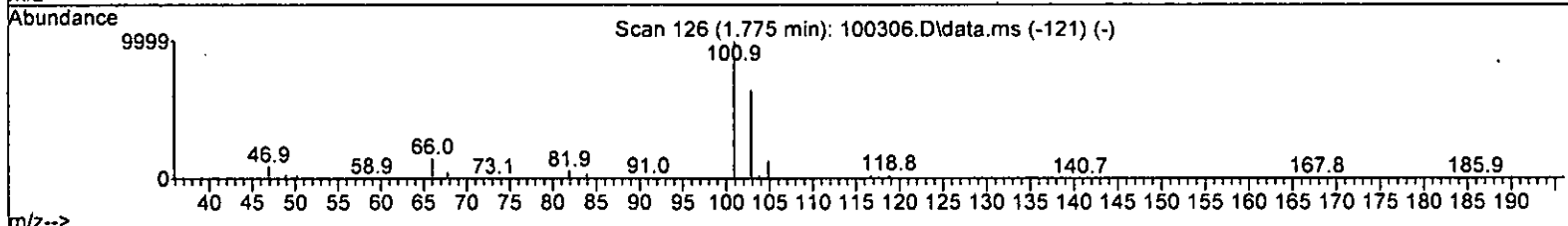
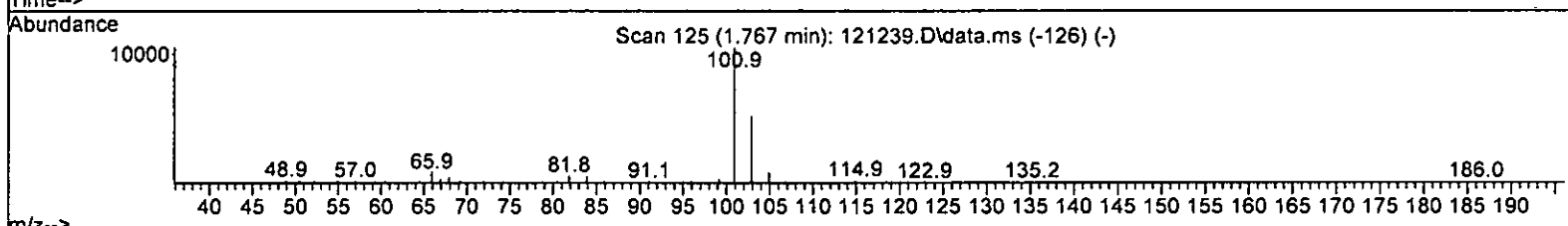
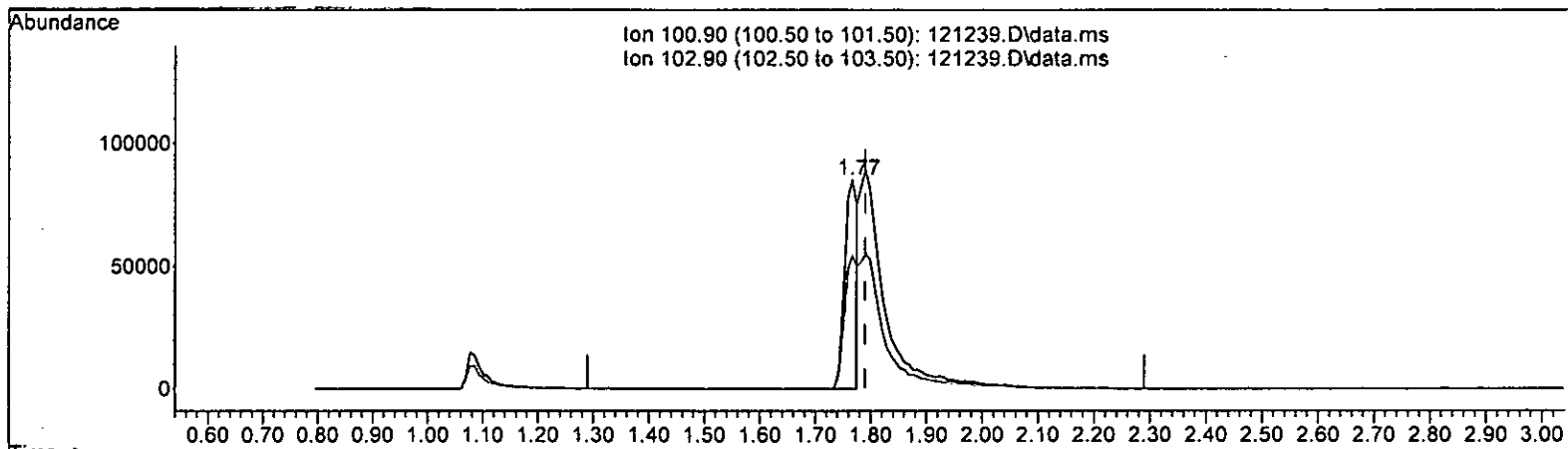
Quant Time: Dec 15 11:21:55 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-25S  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121239.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 33.644 ppb

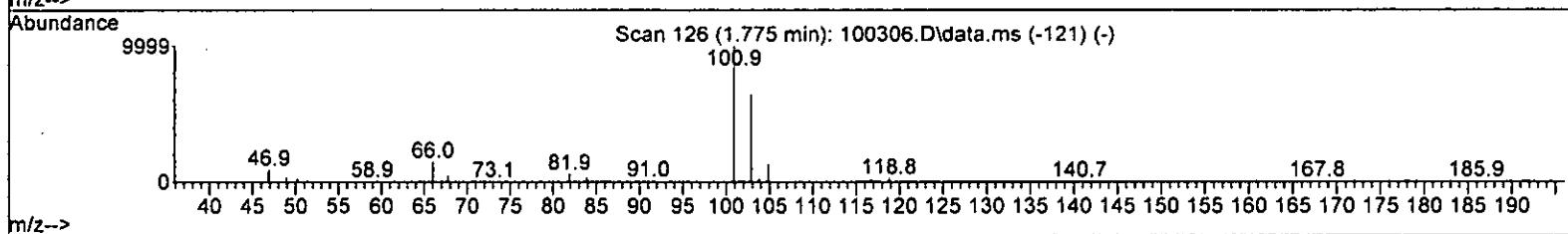
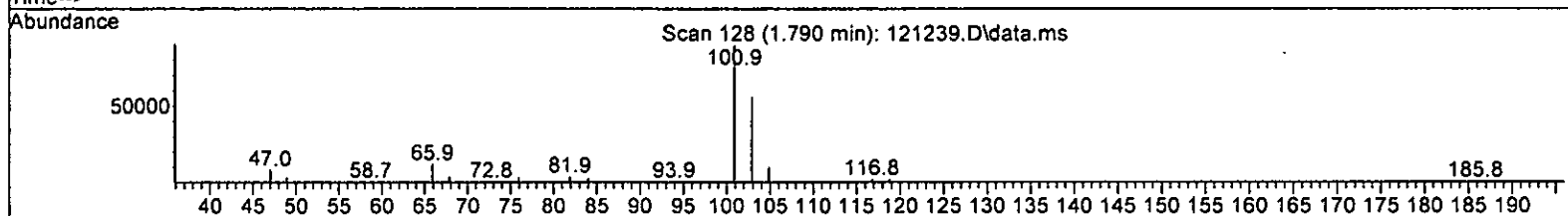
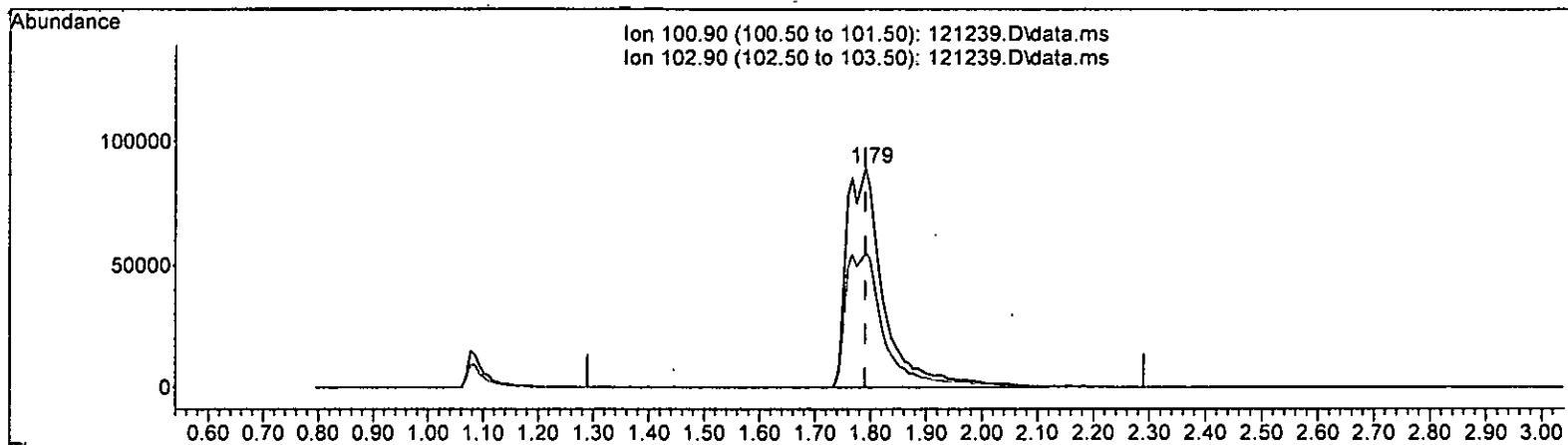
response	135279	
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	62.70	63.95
0.00	0.00	0.00
0.00	0.00	0.00

*17.15 pm*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121239.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.790min (+ 0.000) 106.307 ppb m

response	427456		
Ion	Exp%	Act%	
100.90	100.00	100.00	
102.90	62.70	61.61	
0.00	0.00	0.00	
0.00	0.00	0.00	

*12/15 LM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	100	0.02
3 S Dibromofluoromethane	10.000	10.279	-2.8	100	0.00
4 TMP Dichlorodifluoromethane	100.000	103.087	-3.1	100	0.00
5 TMP Chloromethane	100.000	98.069	1.9	100	0.00
6 TMP Vinyl chloride	100.000	100.209	-0.2	100	0.00
7 TMP Bromomethane	100.000	104.675	-4.7	100	0.00
8 TMP Chloroethane	100.000	100.075	-0.1	100	0.00
9 TMP Trichlorofluoromethane	100.000	106.307	-6.3	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-0.02
11 TMP Acetone	500.000	491.620	1.7	100	0.00
12 TMP 1,1-Dichloroethene	100.000	99.371	0.6	100	0.00
13 TMP Hexane	100.000	96.351	3.6	100	0.00
14 TMP Methylene chloride	100.000	93.876	6.1	100	0.00
15 TMP t-Butyl alcohol (TBA)	500.000	492.995	1.4	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	100.000	98.763	1.2	100	0.00
17 TMP trans-1,2-Dichloroethene	100.000	94.626	5.4	100	0.00
18 TMP Diisopropyl ether (DIPE)	100.000	97.185	2.8	100	0.00
19 TMP 1,1-Dichloroethane	100.000	98.632	1.4	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	100.000	100.902	-0.9	100	0.00
21 TMP 2,2-Dichloropropane	100.000	98.227	1.8	100	0.00
22 TMP cis-1,2-Dichloroethene	100.000	97.600	2.4	100	0.00
23 TMP Chloroform	100.000	95.586	4.4	100	0.00
24 TMP 2-Butanone (MEK)	500.000	489.680	2.1	100	0.00
25 TMP t-Amyl methyl ether (TAME)	100.000	99.045	1.0	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	100.000	95.242	4.8	100	0.00
27 TMP 1,1,1-Trichloroethane	100.000	100.907	-0.9	100	0.00
28 TMP 1,1-Dichloropropene	100.000	96.971	3.0	100	0.00
29 TMP Carbon tetrachloride	100.000	105.419	-5.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.126	-1.3	100	0.00
31 TMP Benzene	100.000	97.414	2.6	100	0.00
32 TMP Trichloroethene	100.000	100.492	-0.5	100	0.00
33 TMP 1,2-Dichloropropane	100.000	97.766	2.2	100	0.00
34 TMP Bromodichloromethane	100.000	99.778	0.2	100	0.00
35 S Toluene-d8	10.000	9.928	0.7	100	0.00
36 TMP Dibromomethane	100.000	101.336	-1.3	100	0.00
37 TMP 4-Methyl-2-pentanone	500.000	480.685	3.9	100	0.00
38 TMP cis-1,3-Dichloropropene	100.000	97.638	2.4	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	100.000	96.307	3.7	100	0.00
41 TMP trans-1,3-Dichloropropene	100.000	101.229	-1.2	100	0.00
42 TMP 1,1,2-Trichloroethane	100.000	98.144	1.9	100	0.00
43 TMP 2-Hexanone	500.000	461.458	7.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	100.000	98.108	1.9	100	0.00
45 TMP Tetrachloroethene	100.000	95.015	5.0	100	0.00
46 TMP Dibromochloromethane	100.000	103.069	-3.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	100.000	98.059	1.9	100	0.00
48 TMP Chlorobenzene	100.000	99.732	0.3	100	0.00
49 TMP Ethylbenzene	100.000	96.325	3.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	100.000	104.318	-4.3	100	0.00
51 TMP m,p-Xylene	200.000	189.776	5.1	100	0.00
52 TMP o-Xylene	100.000	96.435	3.6	100	0.00
53 TMP Styrene	100.000	98.020	2.0	100	0.00
54 TMP Isopropylbenzene	100.000	97.670	2.3	100	0.00
55 TMP Bromoform	100.000	104.341	-4.3	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.021	-0.2	100	0.00
58 TMP n-Propylbenzene	100.000	96.073	3.9	100	0.00
59 TMP Bromobenzene	100.000	98.094	1.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	100.000	95.787	4.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	100.000	94.762	5.2	100	0.00
62 TMP 1,2,3-Trichloropropane	100.000	93.177	6.8	100	0.00
63 TMP 2-Chlorotoluene	100.000	96.010	4.0	100	0.00
64 TMP 4-Chlorotoluene	100.000	94.476	5.5	100	0.00
65 TMP tert-Butylbenzene	100.000	98.702	1.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	100.000	96.517	3.5	100	0.00
67 TMP sec-Butylbenzene	100.000	97.977	2.0	100	0.00
68 TMP p-Isopropyltoluene	100.000	99.887	0.1	100	0.00
69 TMP 1,3-Dichlorobenzene	100.000	96.675	3.3	100	0.00
70 TMP 1,4-Dichlorobenzene	100.000	95.298	4.7	100	0.00
71 TMP 1,2-Dichlorobenzene	100.000	96.795	3.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	100.000	99.737	0.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	100.000	104.517	-4.5	100	0.00
74 TMP Hexachlorobutadiene	100.000	101.761	-1.8	100	0.00
75 TMP Naphthalene	100.000	93.202	6.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	100.000	103.850	-3.8	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAI 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	100	0.02
3 S	Dibromofluoromethane	0.264	0.271	-2.7	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.710	-3.2	100	0.00
5 TMP	Chloromethane	0.883	0.866	1.9	100	0.00
6 TMP	Vinyl chloride	0.732	0.733	-0.1	100	0.00
7 TMP	Bromomethane	0.368	0.386	-4.9	100	0.00
8 TMP	Chloroethane	0.336	0.337	-0.3	100	0.00
9 TMP	Trichlorofluoromethane	0.870	0.925	-6.3	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	-0.02
11 TMP	Acetone	0.037	0.037	0.0	100	0.00
12 TMP	1,1-Dichloroethene	0.240	0.239	0.4	100	0.00
13 TMP	Hexane	0.434	0.418	3.7	100	0.00
14 TMP	Methylene chloride	0.269	0.253	5.9	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.046	0.0	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.724	1.2	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.258	5.1	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.906	2.8	100	0.00
19 TMP	1,1-Dichloroethane	0.504	0.497	1.4	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.299	-1.0	100	0.00
21 TMP	2,2-Dichloropropane	0.316	0.310	1.9	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.280	2.1	100	0.00
23 TMP	Chloroform	0.477	0.456	4.4	100	0.00
24 TMP	2-Butanone (MEK)	0.183	0.179	2.2	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.687	1.0	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.394	4.6	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.444	-0.9	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.351	3.0	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.387	-5.4	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.061	-1.7	100	0.00
31 TMP	Benzene	0.999	0.973	2.6	100	0.00
32 TMP	Trichloroethene	0.316	0.317	-0.3	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.290	2.0	100	0.00
34 TMP	Bromodichloromethane	0.357	0.357	0.0	100	0.00
35 S	Toluene-d8	0.960	0.953	0.7	100	0.00
36 TMP	Dibromomethane	0.169	0.171	-1.2	100	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.050	3.8	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.418	2.6	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.858	0.826	3.7	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.484	0.490	-1.2	100	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.259	1.9	100	0.00
43 TMP	2-Hexanone	0.335	0.310	7.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.461	1.9	100	0.00
45 TMP Tetrachloroethene	0.342	0.325	5.0	100	0.00
46 TMP Dibromochloromethane	0.354	0.365	-3.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.321	1.8	100	0.00
48 TMP Chlorobenzene	0.925	0.923	0.2	100	0.00
49 TMP Ethylbenzene	1.611	1.552	3.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.347	-4.2	100	0.00
51 TMP m,p-Xylene	0.607	0.576	5.1	100	0.00
52 TMP o-Xylene	0.595	0.574	3.5	100	0.00
53 TMP Styrene	0.973	0.954	2.0	100	0.00
54 TMP Isopropylbenzene	1.564	1.528	2.3	100	0.00
55 TMP Bromoform	0.252	0.263	-4.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.846	-0.2	100	0.00
58 TMP n-Propylbenzene	3.281	3.152	3.9	100	0.00
59 TMP Bromobenzene	0.770	0.756	1.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.340	4.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.661	5.3	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.546	6.8	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.863	4.0	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.155	5.5	100	0.00
65 TMP tert-Butylbenzene	2.141	2.113	1.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.390	3.5	100	0.00
67 TMP sec-Butylbenzene	3.103	3.040	2.0	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.669	0.1	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.386	3.3	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.392	4.7	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.336	3.2	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.155	0.0	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.024	-4.5	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.551	-1.7	100	0.00
75 TMP Naphthalene	2.597	2.420	6.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.939	-3.9	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	46224	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	36627	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19904	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	12536	10.279	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	102.80%
30) 1,2-Dichloroethane-d4	4.36	102	2824	10.126	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	101.30%
35) Toluene-d8	5.98	98	44060	9.928	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	99.30%
57) 4-Bromofluorobenzene	8.38	95	16839	10.021	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	100.20%
Target Compounds						
						Qvalue
2) Ethanol	1.88	45	55	No Calib		
4) Dichlorodifluoromethane	1.08	85	328077	103.087	ppb	99
5) Chloromethane	1.22	50	400177	98.069	ppb	99
6) Vinyl chloride	1.29	62	338951	100.209	ppb	97
7) Bromomethane	1.53	94	178210	104.675	ppb	67
8) Chloroethane	1.59	64	155625	100.075	ppb	100
9) Trichlorofluoromethane	1.79	101	427456m	106.307	ppb	
10) 2-Propanol	2.39	45	473	No Calib		
11) Acetone	2.25	58	84601	491.620	ppb	96
12) 1,1-Dichloroethene	2.18	96	110409	99.371	ppb	# 80
13) Hexane	3.05	57	193177	96.351	ppb	98
14) Methylene chloride	2.60	84	116739	93.876	ppb	96
15) t-Butyl alcohol (TBA)	2.73	59	105239	492.995	ppb	98
16) Methyl t-butyl ether (...)	2.83	73	334705	98.763	ppb	96
17) trans-1,2-Dichloroethene	2.82	96	119081	94.626	ppb	100
18) Diisopropyl ether (DIPE)	3.24	45	418686	97.185	ppb	97
19) 1,1-Dichloroethane	3.18	63	229909	98.632	ppb	99
20) Ethyl t-butyl ether (E...)	3.54	87	138062	100.902	ppb	97
21) 2,2-Dichloropropane	3.66	77	143469	98.227	ppb	92
22) cis-1,2-Dichloroethene	3.67	96	129200	97.600	ppb	89
23) Chloroform	3.94	83	210748	95.586	ppb	96
24) 2-Butanone (MEK)	3.70	43	413961	489.680	ppb	99
25) t-Amyl methyl ether (T...)	4.49	73	317512	99.045	ppb	99
26) 1,2-Dichloroethane (EDC)	4.41	62	181967	95.242	ppb	97
27) 1,1,1-Trichloroethane	4.08	97	205311	100.907	ppb	94
28) 1,1-Dichloropropene	4.22	75	162360	96.971	ppb	99
29) Carbon tetrachloride	4.21	117	178880	105.419	ppb	100
31) Benzene	4.38	78	449827	97.414	ppb	93
32) Trichloroethene	4.93	95	146592	100.492	ppb	92
33) 1,2-Dichloropropane	5.13	63	133896	97.766	ppb	98
34) Bromodichloromethane	5.37	83	164852	99.778	ppb	92
36) Dibromomethane	5.23	93	79115	101.336	ppb	97

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-25S  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

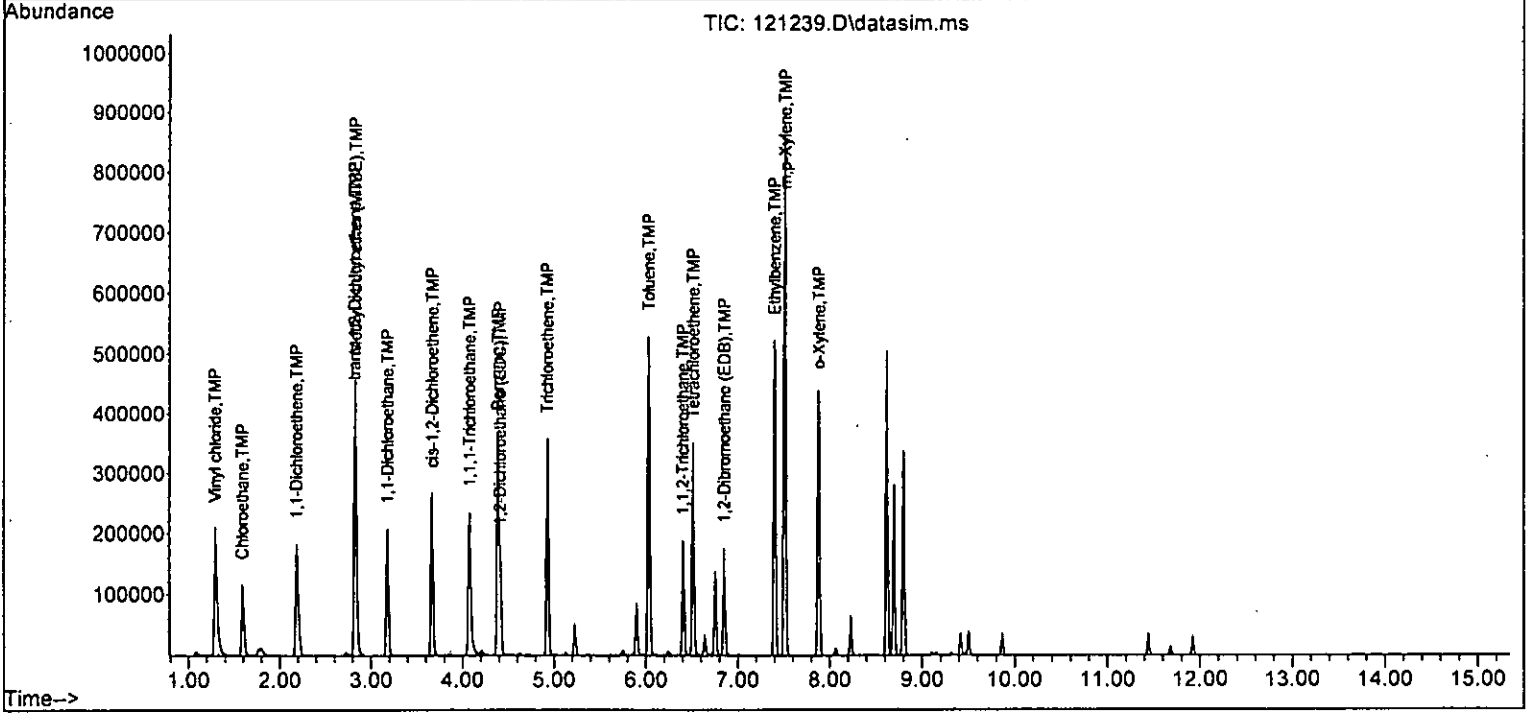
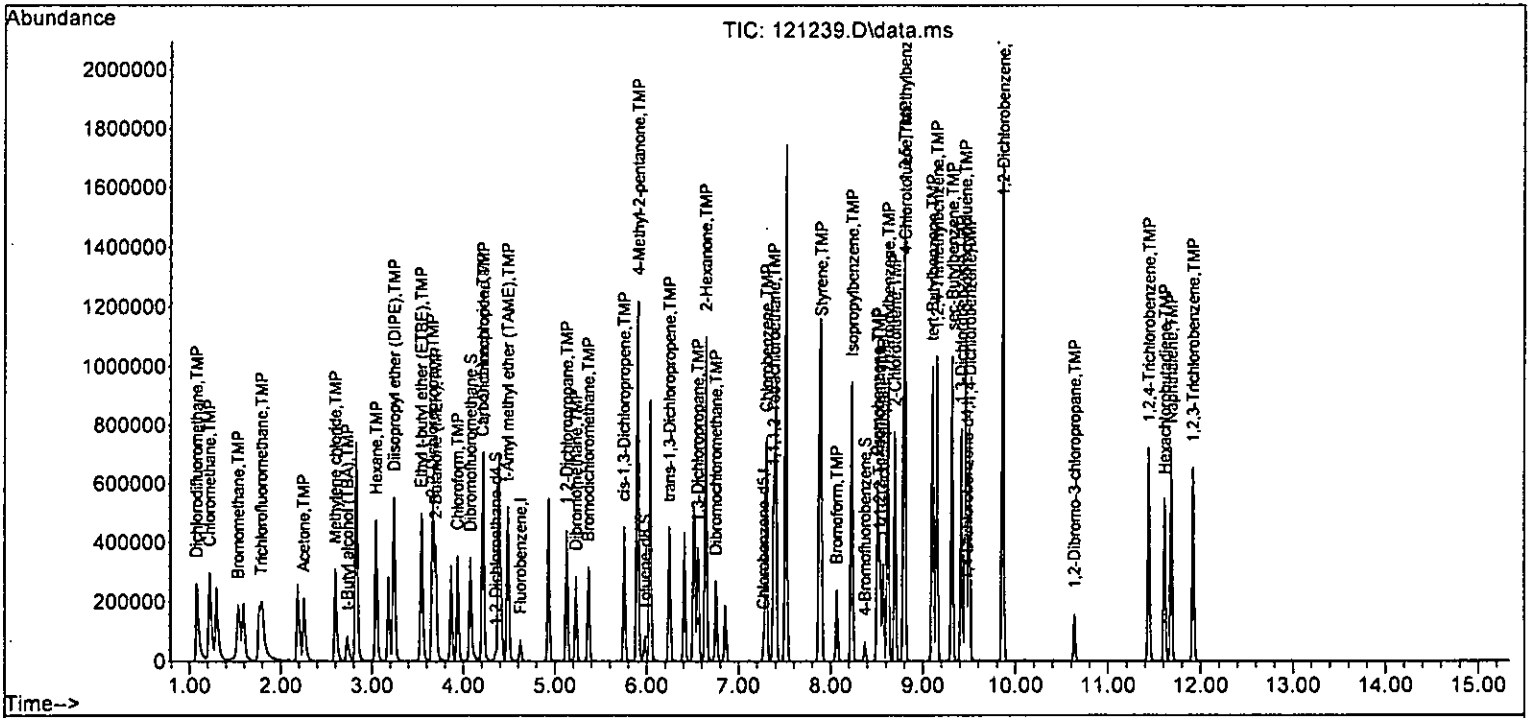
Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	115949	480.685	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	193419	97.638	ppb	98
40] Toluene	6.03	92	302504	96.307	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	179305	101.229	ppb	97
42] 1,1,2-Trichloroethane	6.40	83	94797	98.144	ppb	99
43) 2-Hexanone	6.64	43	566880	461.458	ppb	97
44) 1,3-Dichloropropane	6.55	76	168788	98.108	ppb	99
45] Tetrachloroethene	6.51	164	119084	95.015	ppb	99
46) Dibromochloromethane	6.75	129	133529	103.069	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	117565	98.059	ppb	100
48) Chlorobenzene	7.30	112	337948	99.732	ppb	99
49] Ethylbenzene	7.40	91	568500	96.325	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	127197	104.318	ppb	95
51] m,p-Xylene	7.52	106	422151	189.776	ppb	98
52] o-Xylene	7.88	106	210130	96.435	ppb	97
53) Styrene	7.90	104	349287	98.020	ppb	97
54) Isopropylbenzene	8.23	105	559484	97.670	ppb	98
55) Bromoform	8.07	173	96391	104.341	ppb	95
58) n-Propylbenzene	8.63	91	627453	96.073	ppb	94
59) Bromobenzene	8.51	156	150434	98.094	ppb	97
60) 1,3,5-Trimethylbenzene	8.80	105	465716	95.787	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	131592	94.762	ppb	96
62) 1,2,3-Trichloropropane	8.57	75	108652	93.177	ppb	96
63) 2-Chlorotoluene	8.70	91	370831	96.010	ppb	99
64) 4-Chlorotoluene	8.81	91	428893	94.476	ppb	99
65) tert-Butylbenzene	9.10	119	420561	98.702	ppb	98
66) 1,2,4-Trimethylbenzene	9.15	105	475679	96.517	ppb	98
67) sec-Butylbenzene	9.32	105	605103	97.977	ppb	99
68) p-Isopropyltoluene	9.46	119	531214	99.887	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	275947	96.675	ppb	98
70) 1,4-Dichlorobenzene	9.51	146	277090	95.298	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	265839	96.795	ppb	99
72) 1,2-Dibromo-3-chloropr...	10.64	75	30757	99.737	ppb	83
73) 1,2,4-Trichlorobenzene	11.44	180	203824	104.517	ppb	97
74) Hexachlorobutadiene	11.61	225	109690	101.761	ppb	95
75) Naphthalene	11.68	128	481763	93.202	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	186847	103.850	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121239.D  
 Acq On : 13 Dec 2022 02:43 am  
 Operator : LM  
 Sample : 100 ppb 8260 ICAL 68-255  
 Misc : soil/water  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:57 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.864	1.4	100	0.00
4 TMP Dichlorodifluoromethane	150.000	157.348	-4.9	100	0.00
5 TMP Chloromethane	150.000	147.059	2.0	100	0.00
6 TMP Vinyl chloride	150.000	151.013	-0.7	100	0.00
7 TMP Bromomethane	150.000	154.661	-3.1	100	0.00
8 TMP Chloroethane	150.000	141.583	5.6	100	0.00
9 TMP Trichlorofluoromethane	150.000	161.528	-7.7	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	750.000	750.266	-0.0	100	0.00
12 TMP 1,1-Dichloroethene	150.000	150.515	-0.3	100	0.00
13 TMP Hexane	150.000	144.867	3.4	100	0.00
14 TMP Methylene chloride	150.000	142.028	5.3	100	0.00
15 TMP t-Butyl alcohol (TBA)	750.000	769.304	-2.6	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	150.000	148.506	1.0	100	0.00
17 TMP trans-1,2-Dichloroethene	150.000	142.672	4.9	100	0.00
18 TMP Diisopropyl ether (DIPE)	150.000	146.936	2.0	100	0.00
19 TMP 1,1-Dichloroethane	150.000	148.289	1.1	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	150.000	150.897	-0.6	100	0.00
21 TMP 2,2-Dichloropropane	150.000	142.851	4.8	100	0.00
22 TMP cis-1,2-Dichloroethene	150.000	147.232	1.8	100	0.00
23 TMP Chloroform	150.000	146.112	2.6	100	0.00
24 TMP 2-Butanone (MEK)	750.000	745.033	0.7	100	0.00
25 TMP t-Amyl methyl ether (TAME)	150.000	146.873	2.1	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	150.000	143.753	4.2	100	0.00
27 TMP 1,1,1-Trichloroethane	150.000	153.408	-2.3	100	0.00
28 TMP 1,1-Dichloropropene	150.000	146.263	2.5	100	0.00
29 TMP Carbon tetrachloride	150.000	162.724	-8.5	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.908	0.9	100	0.00
31 TMP Benzene	150.000	147.073	2.0	100	0.00
32 TMP Trichloroethene	150.000	152.545	-1.7	100	0.00
33 TMP 1,2-Dichloropropane	150.000	146.158	2.6	100	0.00
34 TMP Bromodichloromethane	150.000	154.015	-2.7	100	0.00
35 S Toluene-d8	10.000	9.972	0.3	100	0.00
36 TMP Dibromomethane	150.000	154.323	-2.9	100	0.00
37 TMP 4-Methyl-2-pentanone	750.000	738.409	1.5	100	0.00
38 TMP cis-1,3-Dichloropropene	150.000	148.299	1.1	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	150.000	148.909	0.7	100	0.00
41 TMP trans-1,3-Dichloropropene	150.000	158.386	-5.6	100	0.00
42 TMP 1,1,2-Trichloroethane	150.000	153.831	-2.6	100	0.00
43 TMP 2-Hexanone	750.000	720.241	4.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	150.000	153.253	-2.2	100	0.00
45 TMP Tetrachloroethene	150.000	147.548	1.6	100	0.00
46 TMP Dibromochloromethane	150.000	163.093	-8.7	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	150.000	153.058	-2.0	100	0.00
48 TMP Chlorobenzene	150.000	154.996	-3.3	100	0.00
49 TMP Ethylbenzene	150.000	148.374	1.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	150.000	161.615	-7.7	100	0.00
51 TMP m,p-Xylene	300.000	294.148	2.0	100	0.00
52 TMP o-Xylene	150.000	149.783	0.1	100	0.00
53 TMP Styrene	150.000	152.583	-1.7	100	0.00
54 TMP Isopropylbenzene	150.000	152.556	-1.7	100	0.00
55 TMP Bromoform	150.000	167.050	-11.4	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.604	-6.0	100	0.00
58 TMP n-Propylbenzene	150.000	149.893	0.1	100	0.00
59 TMP Bromobenzene	150.000	154.222	-2.8	100	0.00
60 TMP 1,3,5-Trimethylbenzene	150.000	148.178	1.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	150.000	147.638	1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	150.000	147.268	1.8	100	0.00
63 TMP 2-Chlorotoluene	150.000	148.863	0.8	100	0.00
64 TMP 4-Chlorotoluene	150.000	147.049	2.0	100	0.00
65 TMP tert-Butylbenzene	150.000	154.977	-3.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	150.000	151.478	-1.0	100	0.00
67 TMP sec-Butylbenzene	150.000	153.498	-2.3	100	0.00
68 TMP p-Isopropyltoluene	150.000	155.786	-3.9	100	0.00
69 TMP 1,3-Dichlorobenzene	150.000	151.079	-0.7	100	0.00
70 TMP 1,4-Dichlorobenzene	150.000	149.089	0.6	100	0.00
71 TMP 1,2-Dichlorobenzene	150.000	151.392	-0.9	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	150.000	162.204	-8.1	100	0.00
73 TMP 1,2,4-Trichlorobenzene	150.000	166.038	-10.7	100	0.00
74 TMP Hexachlorobutadiene	150.000	159.359	-6.2	100	0.00
75 TMP Naphthalene	150.000	151.154	-0.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	150.000	166.297	-10.9	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.260	1.5	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.722	-4.9	100	0.00
5 TMP	Chloromethane	0.883	0.865	2.0	100	0.00
6 TMP	Vinyl chloride	0.732	0.737	-0.7	100	0.00
7 TMP	Bromomethane	0.368	0.380	-3.3	100	0.00
8 TMP	Chloroethane	0.336	0.318	5.4	100	0.00
9 TMP	Trichlorofluoromethane	0.870	0.937	-7.7	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.037	0.0	100	0.00
12 TMP	1,1-Dichloroethene	0.240	0.241	-0.4	100	0.00
13 TMP	Hexane	0.434	0.419	3.5	100	0.00
14 TMP	Methylene chloride	0.269	0.255	5.2	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.047	-2.2	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.726	1.0	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.259	4.8	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.913	2.0	100	0.00
19 TMP	1,1-Dichloroethane	0.504	0.499	1.0	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.298	-0.7	100	0.00
21 TMP	2,2-Dichloropropane	0.316	0.301	4.7	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.281	1.7	100	0.00
23 TMP	Chloroform	0.477	0.465	2.5	100	0.00
24 TMP	2-Butanone (MEK)	0.183	0.182	0.5	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.679	2.2	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.396	4.1	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.450	-2.3	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.353	2.5	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.398	-8.4	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.060	0.0	100	0.00
31 TMP	Benzene	0.999	0.979	2.0	100	0.00
32 TMP	Trichloroethene	0.316	0.321	-1.6	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.289	2.4	100	0.00
34 TMP	Bromodichloromethane	0.357	0.367	-2.8	100	0.00
35 S	Toluene-d8	0.960	0.957	0.3	100	0.00
36 TMP	Dibromomethane	0.169	0.174	-3.0	100	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.424	1.2	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.858	0.851	0.8	100	0.00
41 TMP	trans-1,3-Dichloropropene	0.484	0.511	-5.6	100	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.270	-2.3	100	0.00
43 TMP	2-Hexanone	0.335	0.322	3.9	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.480	-2.1	100	0.00
45 TMP Tetrachloroethene	0.342	0.337	1.5	100	0.00
46 TMP Dibromochloromethane	0.354	0.385	-8.8	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.334	-2.1	100	0.00
48 TMP Chlorobenzene	0.925	0.956	-3.4	100	0.00
49 TMP Ethylbenzene	1.611	1.594	1.1	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.359	-7.8	100	0.00
51 TMP m,p-Xylene	0.607	0.595	2.0	100	0.00
52 TMP o-Xylene	0.595	0.594	0.2	100	0.00
53 TMP Styrene	0.973	0.990	-1.7	100	0.00
54 TMP Isopropylbenzene	1.564	1.591	-1.7	100	0.00
55 TMP Bromoform	0.252	0.281	-11.5	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.895	-6.0	100	0.00
58 TMP n-Propylbenzene	3.281	3.279	0.1	100	0.00
59 TMP Bromobenzene	0.770	0.792	-2.9	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.413	1.2	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.687	1.6	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.575	1.9	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.926	0.8	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.236	2.0	100	0.00
65 TMP tert-Butylbenzene	2.141	2.212	-3.3	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.501	-1.0	100	0.00
67 TMP sec-Butylbenzene	3.103	3.175	-2.3	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.775	-3.9	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.444	-0.7	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.452	0.6	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.393	-0.9	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.168	-8.4	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.085	-10.7	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.575	-6.1	100	0.00
75 TMP Naphthalene	2.597	2.617	-0.8	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	1.002	-10.8	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	46540	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	36065	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19550	10.000	ppb	# 0.00

System Monitoring Compounds

3) Dibromofluoromethane	4.07	113	12113	9.864	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	98.60%
30) 1,2-Dichloroethane-d4	4.35	102	2782	9.908	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	99.10%
35) Toluene-d8	5.98	98	44558	9.972	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	99.70%
57) 4-Bromofluorobenzene	8.38	95	17502	10.604	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	106.00%

Target Compounds

Compound	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.08	85	504188	157.348	ppb	99
5) Chloromethane	1.22	50	604187	147.059	ppb	99
6) Vinyl chloride	1.29	62	514284	151.013	ppb	94
7) Bromomethane	1.53	94	265112	154.661	ppb	69
8) Chloroethane	1.59	64	221680	141.583	ppb	98
9) Trichlorofluoromethane	1.79	101	653937	161.528	ppb	99
10) 2-Propanol	2.40	45	537	No Calib		
11) Acetone	2.25	58	129993	750.266	ppb	93
12) 1,1-Dichloroethene	2.19	96	168377	150.515	ppb	85
13) Hexane	3.05	57	292433	144.867	ppb	98
14) Methylene chloride	2.60	84	177825	142.028	ppb	95
15) t-Butyl alcohol (TBA)	2.73	59	165345	769.304	ppb	99
16) Methyl t-butyl ether (...)	2.83	73	506723	148.506	ppb	97
17) trans-1,2-Dichloroethene	2.82	96	180772	142.672	ppb	97
18) Diisopropyl ether (DIPE)	3.24	45	637349	146.936	ppb	98
19) 1,1-Dichloroethane	3.18	63	348023	148.289	ppb	100
20) Ethyl t-butyl ether (E...)	3.54	87	207881	150.897	ppb	99
21) 2,2-Dichloropropane	3.66	77	210074	142.851	ppb	93
22) cis-1,2-Dichloroethene	3.67	96	196234	147.232	ppb	87
23) Chloroform	3.94	83	324349	146.112	ppb	97
24) 2-Butanone (MEK)	3.70	43	634135	745.033	ppb	98
25) t-Amyl methyl ether (T...)	4.49	73	474055	146.873	ppb	98
26) 1,2-Dichloroethane (EDC)	4.41	62	276529	143.753	ppb	97
27) 1,1,1-Trichloroethane	4.08	97	314267	153.408	ppb	94
28) 1,1-Dichloropropene	4.22	75	246565	146.263	ppb	97
29) Carbon tetrachloride	4.21	117	278007	162.724	ppb	99
31) Benzene	4.39	78	683781	147.073	ppb	94
32) Trichloroethene	4.93	95	224045	152.545	ppb	90
33) 1,2-Dichloropropane	5.13	63	201540	146.158	ppb	98
34) Bromodichloromethane	5.37	83	256202	154.015	ppb	91
36) Dibromomethane	5.23	93	121306	154.323	ppb	97

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

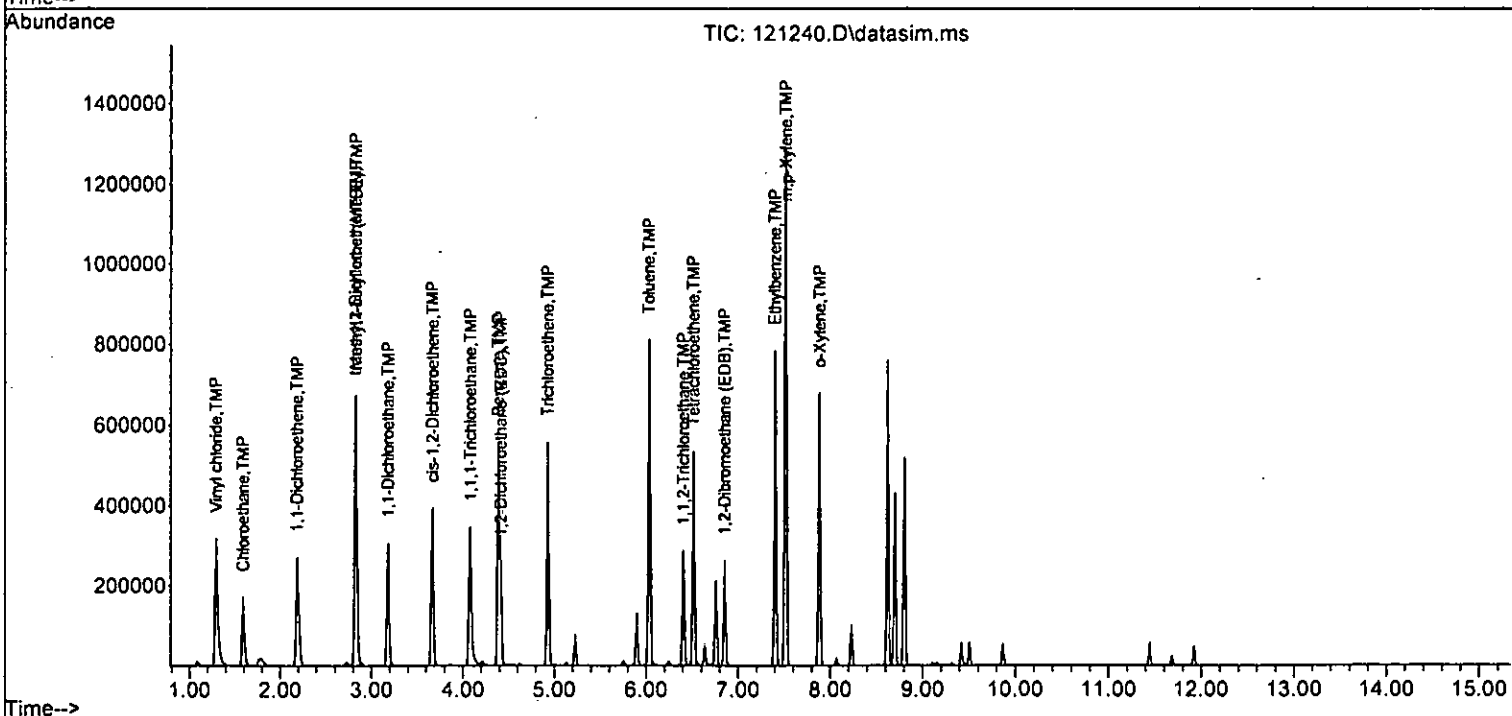
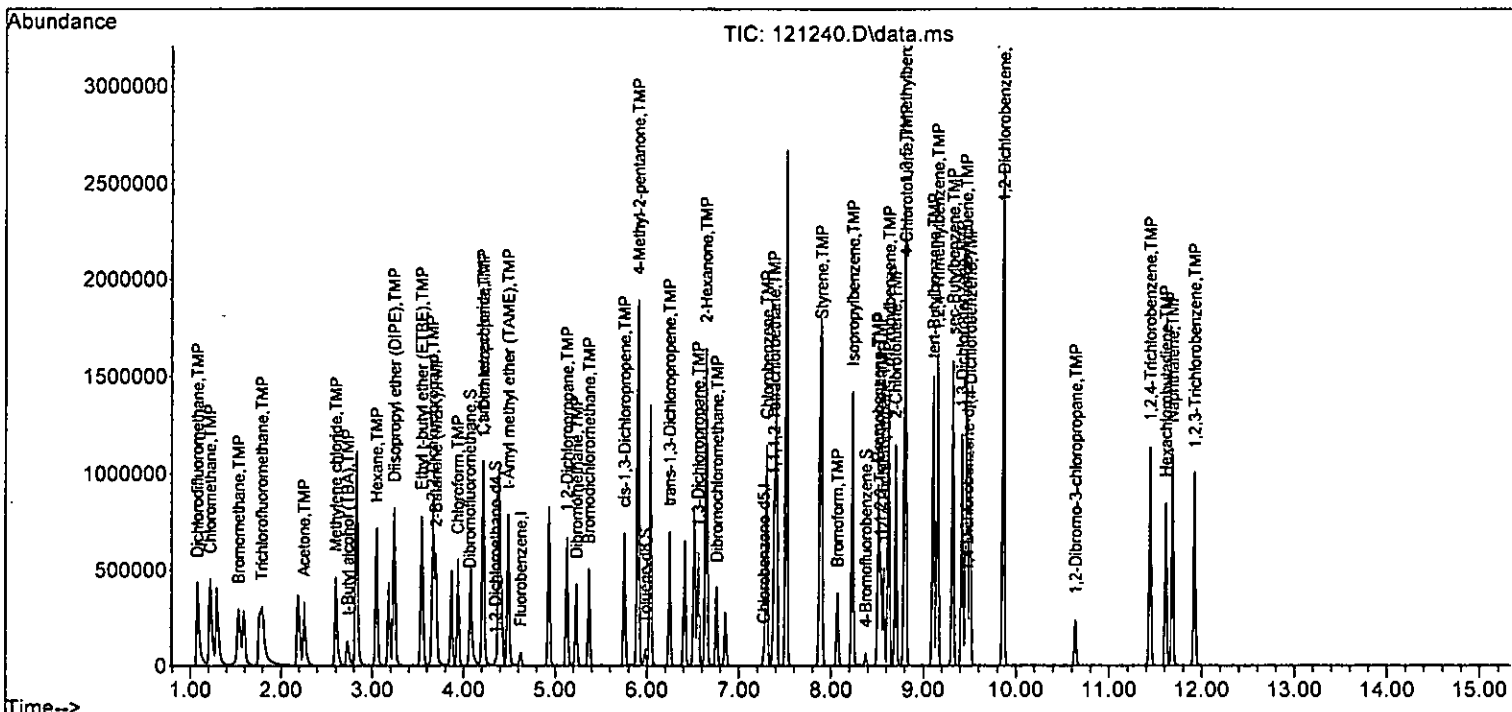
Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	179334	738.409	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	295786	148.299	ppb	100
40] Toluene	6.03	92	460551	148.909	ppb	91
41) trans-1,3-Dichloropropene	6.25	75	276241	158.386	ppb	97
42] 1,1,2-Trichloroethane	6.40	83	146305	153.831	ppb	99
43) 2-Hexanone	6.64	43	871208	720.241	ppb	97
44) 1,3-Dichloropropane	6.55	76	259616	153.253	ppb	98
45] Tetrachloroethene	6.51	164	182088	147.548	ppb	99
46) Dibromochloromethane	6.76	129	208049	163.093	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	180689	153.058	ppb	100
48) Chlorobenzene	7.30	112	517157	154.996	ppb	99
49] Ethylbenzene	7.40	91	862249	148.374	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	194036	161.615	ppb	95
51] m,p-Xylene	7.52	106	644285	294.148	ppb	96
52] o-Xylene	7.88	106	321364	149.783	ppb	95
53) Styrene	7.90	104	535373	152.583	ppb	100
54) Isopropylbenzene	8.23	105	860476	152.556	ppb	99
55) Bromoform	8.07	173	151954	167.050	ppb	94
58) n-Propylbenzene	8.63	91	961540	149.893	ppb	96
59) Bromobenzene	8.51	156	232304	154.222	ppb	99
60) 1,3,5-Trimethylbenzene	8.80	105	707628	148.178	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	201371	147.638	ppb	95
62) 1,2,3-Trichloropropane	8.57	75	168671	147.268	ppb	97
63) 2-Chlorotoluene	8.70	91	564745	148.863	ppb	100
64) 4-Chlorotoluene	8.81	91	655687	147.049	ppb	97
65) tert-Butylbenzene	9.11	119	648597	154.977	ppb	98
66) 1,2,4-Trimethylbenzene	9.15	105	733274	151.478	ppb	98
67) sec-Butylbenzene	9.32	105	931136	153.498	ppb	98
68) p-Isopropyltoluene	9.46	119	813758	155.786	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	423564	151.079	ppb	99
70) 1,4-Dichlorobenzene	9.51	146	425782	149.089	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	408391	151.392	ppb	98
72) 1,2-Dibromo-3-chloropr...	10.64	75	49131	162.204	ppb	81
73) 1,2,4-Trichlorobenzene	11.44	180	318041	166.038	ppb	99
74) Hexachlorobutadiene	11.61	225	168720	159.359	ppb	93
75) Naphthalene	11.68	128	767421	151.154	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	293881	166.297	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121240.D  
 Acq On : 13 Dec 2022 03:06 am  
 Operator : LM  
 Sample : 150 ppb 8260 ICAL 68-25T  
 Misc : soil/water  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS11

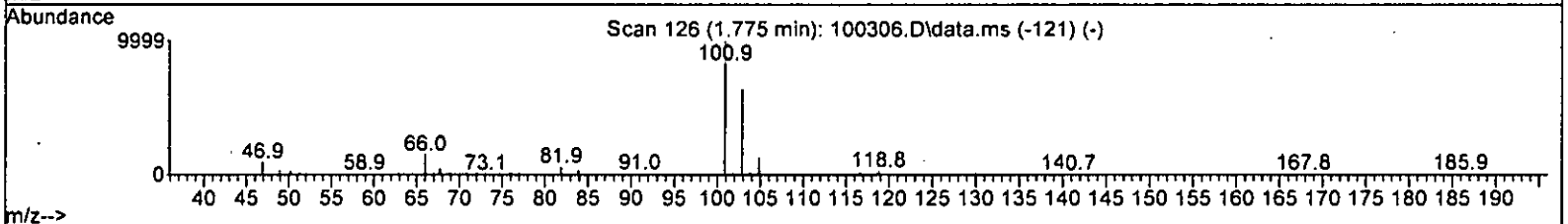
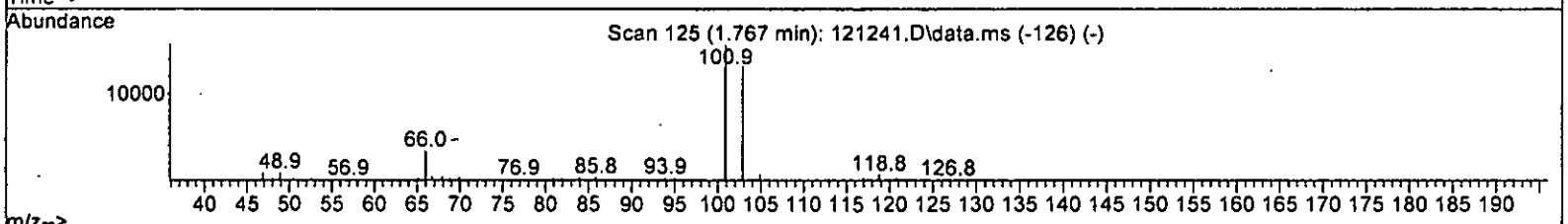
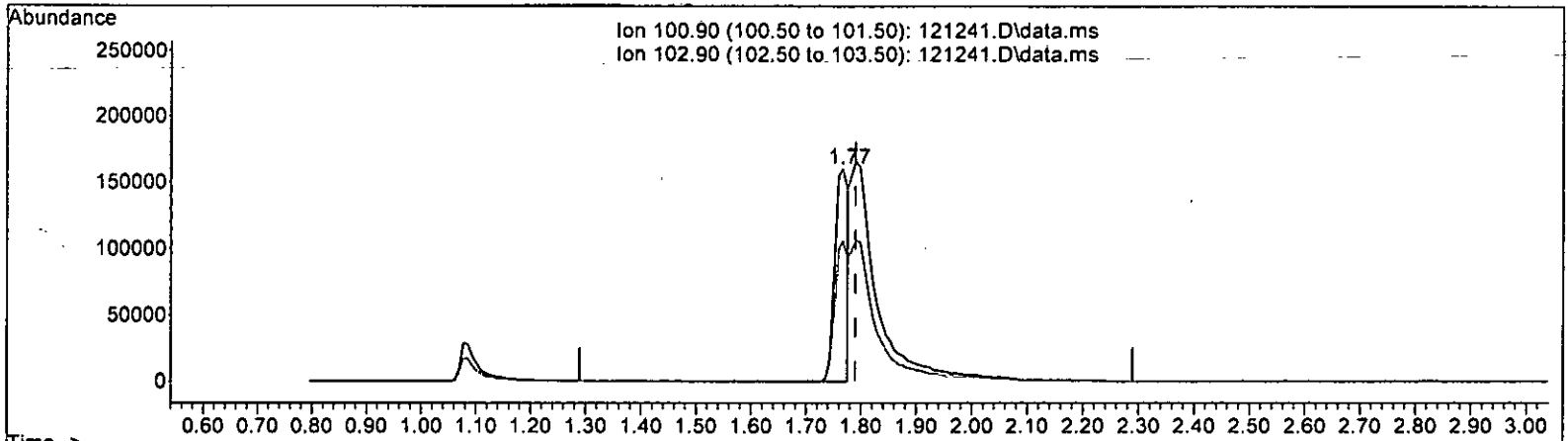
Quant Time: Dec 15 11:21:59 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121241.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.767min (-0.023) 66.449 ppb

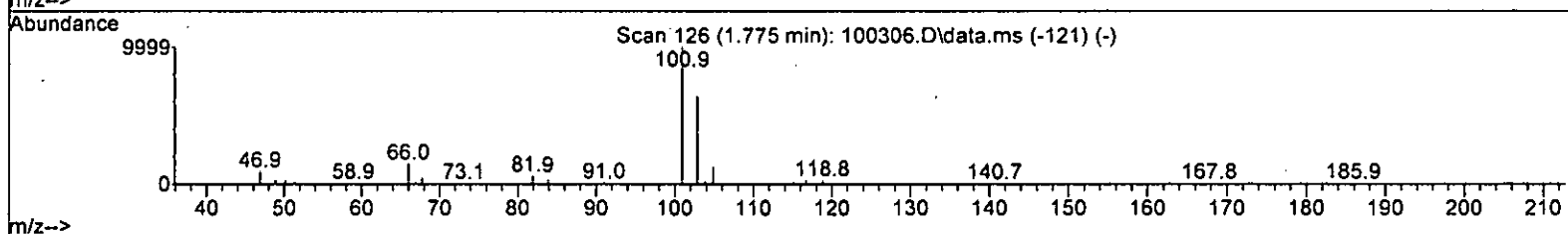
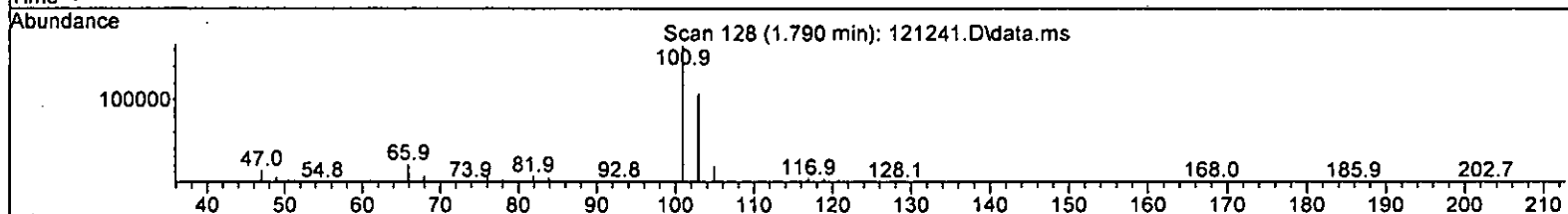
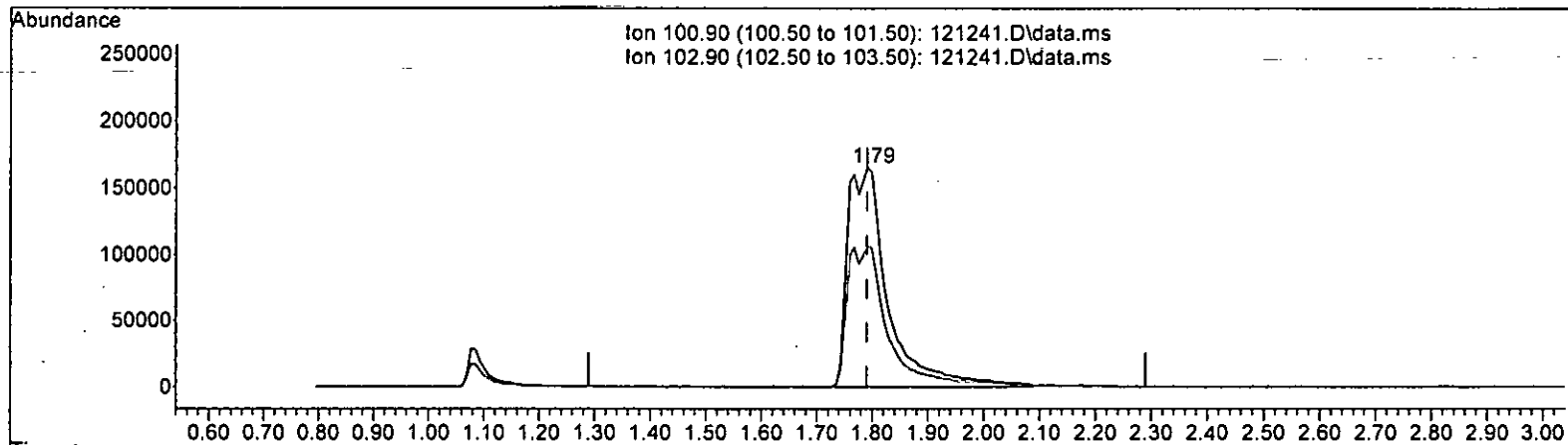
response	Exp%	Act%
264917	100.00	100.00
Ion 100.90	100.00	100.00
Ion 102.90	67.70	65.86
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 LM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121241.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.790min (+ 0.000) 215.597 ppb m

response	Exp%	Act%
859534		
Ion	Exp%	Act%
100.90	100.00	100.00
102.90	62.70	64.20
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 LM*

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.178	-1.8	100	0.00
4 TMP Dichlorodifluoromethane	200.000	207.595	-3.8	100	0.00
5 TMP Chloromethane	200.000	197.639	1.2	100	0.00
6 TMP Vinyl chloride	200.000	200.385	-0.2	100	0.00
7 TMP Bromomethane	200.000	207.118	-3.6	100	0.00
8 TMP Chloroethane	200.000	189.756	5.1	100	0.00
9 TMP Trichlorofluoromethane	200.000	215.597	-7.8	100	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	1000.000	1007.946	-0.8	100	0.00
12 TMP 1,1-Dichloroethene	200.000	198.369	0.8	100	0.00
13 TMP Hexane	200.000	192.176	3.9	100	0.00
14 TMP Methylene chloride	200.000	190.509	4.7	100	0.00
15 TMP t-Butyl alcohol (TBA)	1000.000	1016.892	-1.7	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	200.000	198.672	0.7	100	0.00
17 TMP trans-1,2-Dichloroethene	200.000	191.318	4.3	100	0.00
18 TMP Diisopropyl ether (DIPE)	200.000	194.152	2.9	100	0.00
19 TMP 1,1-Dichloroethane	200.000	198.145	0.9	100	0.00
20 TMP Ethyl t-butyl ether (ETBE)	200.000	201.413	-0.7	100	0.00
21 TMP 2,2-Dichloropropane	200.000	192.271	3.9	100	0.00
22 TMP cis-1,2-Dichloroethene	200.000	197.706	1.1	100	0.00
23 TMP Chloroform	200.000	195.552	2.2	100	0.00
24 TMP 2-Butanone (MEK)	1000.000	909.549	9.0	100	0.00
25 TMP t-Amyl methyl ether (TAME)	200.000	200.350	-0.2	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	200.000	192.918	3.5	100	0.00
27 TMP 1,1,1-Trichloroethane	200.000	205.791	-2.9	100	0.00
28 TMP 1,1-Dichloropropene	200.000	197.985	1.0	100	0.00
29 TMP Carbon tetrachloride	200.000	220.014	-10.0	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	10.340	-3.4	100	0.00
31 TMP Benzene	200.000	197.148	1.4	100	0.00
32 TMP Trichloroethene	200.000	205.137	-2.6	100	0.00
33 TMP 1,2-Dichloropropane	200.000	196.561	1.7	100	0.00
34 TMP Bromodichloromethane	200.000	204.528	-2.3	100	0.00
35 S Toluene-d8	10.000	10.001	-0.0	100	0.00
36 TMP Dibromomethane	200.000	208.739	-4.4	100	0.00
37 TMP 4-Methyl-2-pentanone	1000.000	977.670	2.2	100	0.00
38 TMP cis-1,3-Dichloropropene	200.000	200.117	-0.1	100	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
40 TMP Toluene	200.000	191.517	4.2	100	0.01
41 TMP trans-1,3-Dichloropropene	200.000	202.915	-1.5	100	0.00
42 TMP 1,1,2-Trichloroethane	200.000	196.155	1.9	100	0.00
43 TMP 2-Hexanone	1000.000	902.158	9.8	100	0.00

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	200.000	198.072	1.0	100	0.00
45 TMP Tetrachloroethene	200.000	188.790	5.6	100	0.00
46 TMP Dibromochloromethane	200.000	209.916	-5.0	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	200.000	194.643	2.7	100	0.00
48 TMP Chlorobenzene	200.000	200.291	-0.1	100	0.00
49 TMP Ethylbenzene	200.000	190.535	4.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	200.000	208.890	-4.4	100	0.00
51 TMP m,p-Xylene	400.000	379.798	5.1	100	0.00
52 TMP o-Xylene	200.000	191.876	4.1	100	0.00
53 TMP Styrene	200.000	197.267	1.4	100	0.00
54 TMP Isopropylbenzene	200.000	194.397	2.8	100	0.00
55 TMP Bromoform	200.000	215.393	-7.7	100	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	10.387	-3.9	100	0.00
58 TMP n-Propylbenzene	200.000	193.174	3.4	100	0.00
59 TMP Bromobenzene	200.000	200.088	-0.0	100	0.00
60 TMP 1,3,5-Trimethylbenzene	200.000	191.959	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	200.000	191.068	4.5	100	0.00
62 TMP 1,2,3-Trichloropropane	200.000	189.783	5.1	100	0.00
63 TMP 2-Chlorotoluene	200.000	192.810	3.6	100	0.00
64 TMP 4-Chlorotoluene	200.000	191.260	4.4	100	0.00
65 TMP tert-Butylbenzene	200.000	200.213	-0.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	200.000	198.455	0.8	100	0.00
67 TMP sec-Butylbenzene	200.000	200.676	-0.3	100	0.00
68 TMP p-Isopropyltoluene	200.000	201.968	-1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	200.000	197.661	1.2	100	0.00
70 TMP 1,4-Dichlorobenzene	200.000	195.446	2.3	100	0.00
71 TMP 1,2-Dichlorobenzene	200.000	197.850	1.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	200.000	208.611	-4.3	100	0.00
73 TMP 1,2,4-Trichlorobenzene	200.000	216.478	-8.2	100	0.00
74 TMP Hexachlorobutadiene	200.000	201.749	-0.9	100	0.00
75 TMP Naphthalene	200.000	196.122	1.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	200.000	214.664	-7.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.269	-1.9	100	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.715	-3.9	100	0.00
5 TMP	Chloromethane	0.883	0.872	1.2	100	0.00
6 TMP	Vinyl chloride	0.732	0.733	-0.1	100	0.00
7 TMP	Bromomethane	0.368	0.381	-3.5	100	0.00
8 TMP	Chloroethane	0.336	0.319	5.1	100	0.00
9 TMP	Trichlorofluoromethane	0.870	0.938	-7.8	100	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.038	-2.7	100	0.00
12 TMP	1,1-Dichloroethene	0.240	0.238	0.8	100	0.00
13 TMP	Hexane	0.434	0.417	3.9	100	0.00
14 TMP	Methylene chloride	0.269	0.256	4.8	100	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.047	-2.2	100	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.728	0.7	100	0.00
17 TMP	trans-1,2-Dichloroethene	0.272	0.260	4.4	100	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.905	2.9	100	0.00
19 TMP	1,1-Dichloroethane	0.504	0.500	0.8	100	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.298	-0.7	100	0.00
21 TMP	2,2-Dichloropropane	0.316	0.304	3.8	100	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.283	1.0	100	0.00
23 TMP	Chloroform	0.477	0.466	2.3	100	0.00
24 TMP	2-Butanone (MEK)	0.183	0.166	9.3	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.695	-0.1	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.399	3.4	100	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.453	-3.0	100	0.00
28 TMP	1,1-Dichloropropene	0.362	0.359	0.8	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.404	-10.1	100	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.062	-3.3	100	0.00
31 TMP	Benzene	0.999	0.985	1.4	100	0.00
32 TMP	Trichloroethene	0.316	0.324	-2.5	100	0.00
33 TMP	1,2-Dichloropropane	0.296	0.291	1.7	100	0.00
34 TMP	Bromodichloromethane	0.357	0.366	-2.5	100	0.00
35 S	Toluene-d8	0.960	0.960	0.0	100	0.00
36 TMP	Dibromomethane	0.169	0.176	-4.1	100	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.051	1.9	100	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.429	0.0	100	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
40 TMP	Toluene	0.858	0.821	4.3	100	0.01
41 TMP	trans-1,3-Dichloropropene	0.484	0.491	-1.4	100	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.259	1.9	100	0.00
43 TMP	2-Hexanone	0.335	0.303	9.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.465	1.1	100	0.00
45 TMP Tetrachloroethene	0.342	0.323	5.6	100	0.00
46 TMP Dibromochloromethane	0.354	0.371	-4.8	100	0.01
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.319	2.4	100	0.00
48 TMP Chlorobenzene	0.925	0.927	-0.2	100	0.00
49 TMP Ethylbenzene	1.611	1.535	4.7	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.348	-4.5	100	0.00
51 TMP m,p-Xylene	0.607	0.577	4.9	100	0.00
52 TMP o-Xylene	0.595	0.571	4.0	100	0.00
53 TMP Styrene	0.973	0.960	1.3	100	0.00
54 TMP Isopropylbenzene	1.564	1.520	2.8	100	0.00
55 TMP Bromoform	0.252	0.272	-7.9	100	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.844	0.877	-3.9	100	0.00
58 TMP n-Propylbenzene	3.281	3.169	3.4	100	0.00
59 TMP Bromobenzene	0.770	0.771	-0.1	100	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.345	4.0	100	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.667	4.4	100	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.556	5.1	100	0.00
63 TMP 2-Chlorotoluene	1.941	1.871	3.6	100	0.00
64 TMP 4-Chlorotoluene	2.281	2.181	4.4	100	0.00
65 TMP tert-Butylbenzene	2.141	2.143	-0.1	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.457	0.8	100	0.00
67 TMP sec-Butylbenzene	3.103	3.113	-0.3	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.698	-1.0	100	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.417	1.2	100	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.428	2.3	100	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.365	1.1	100	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.162	-4.5	100	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.061	-8.3	100	0.00
74 TMP Hexachlorobutadiene	0.542	0.546	-0.7	100	0.00
75 TMP Naphthalene	2.597	2.547	1.9	100	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.970	-7.3	100	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	45831	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	37397	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	20078	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.07	113	12308	10.178	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	101.80%		
30) 1,2-Dichloroethane-d4	4.36	102	2859	10.340	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	103.40%		
35) Toluene-d8	5.98	98	44007	10.001	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	100.00%		
57) 4-Bromofluorobenzene	8.38	95	17607	10.387	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	103.90%		
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.08	85	655057	207.595	ppb	99	
5) Chloromethane	1.22	50	799622	197.639	ppb	99	
6] Vinyl chloride	1.29	62	672029	200.385	ppb	97	
7) Bromomethane	1.54	94	349621	207.118	ppb	70	
8] Chloroethane	1.59	64	292579	189.756	ppb	99	
9) Trichlorofluoromethane	1.79	101	859534m	215.597	ppb		
10) 2-Propanol	2.41	45	713	No Calib			
11) Acetone	2.25	58	171979	1007.946	ppb	91	
12] 1,1-Dichloroethene	2.18	96	218529	198.369	ppb	82	
13) Hexane	3.05	57	382022	192.176	ppb	95	
14) Methylene chloride	2.60	84	234892	190.509	ppb	97	
15) t-Butyl alcohol (TBA)	2.73	59	215229	1016.892	ppb	97	
16] Methyl t-butyl ether (...)	2.83	73	667568	198.672	ppb	97	
17] trans-1,2-Dichloroethene	2.82	96	238715	191.318	ppb	98	
18) Diisopropyl ether (DIPE)	3.24	45	829323	194.152	ppb	98	
19] 1,1-Dichloroethane	3.18	63	457946	198.145	ppb	99	
20) Ethyl t-butyl ether (E...)	3.54	87	273247	201.413	ppb	97	
21) 2,2-Dichloropropane	3.66	77	278442	192.271	ppb	92	
22] cis-1,2-Dichloroethene	3.67	96	259492	197.706	ppb	89	
23) Chloroform	3.94	83	427487	195.552	ppb	96	
24) 2-Butanone (MEK)	3.70	43	762369	909.549	ppb	98	
25) t-Amyl methyl ether (T...)	4.49	73	636808	200.350	ppb	100	
26] 1,2-Dichloroethane (EDC)	4.41	62	365450	192.918	ppb	97	
27] 1,1,1-Trichloroethane	4.08	97	415155	205.791	ppb	95	
28) 1,1-Dichloropropene	4.22	75	328671	197.985	ppb	98	
29) Carbon tetrachloride	4.21	117	370157	220.014	ppb	99	
31] Benzene	4.38	78	902630	197.148	ppb	93	
32] Trichloroethene	4.93	95	296697	205.137	ppb	92	
33) 1,2-Dichloropropane	5.13	63	266913	196.561	ppb	99	
34) Bromodichloromethane	5.37	83	335047	204.528	ppb	88	
36) Dibromomethane	5.23	93	161580	208.739	ppb	98	

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

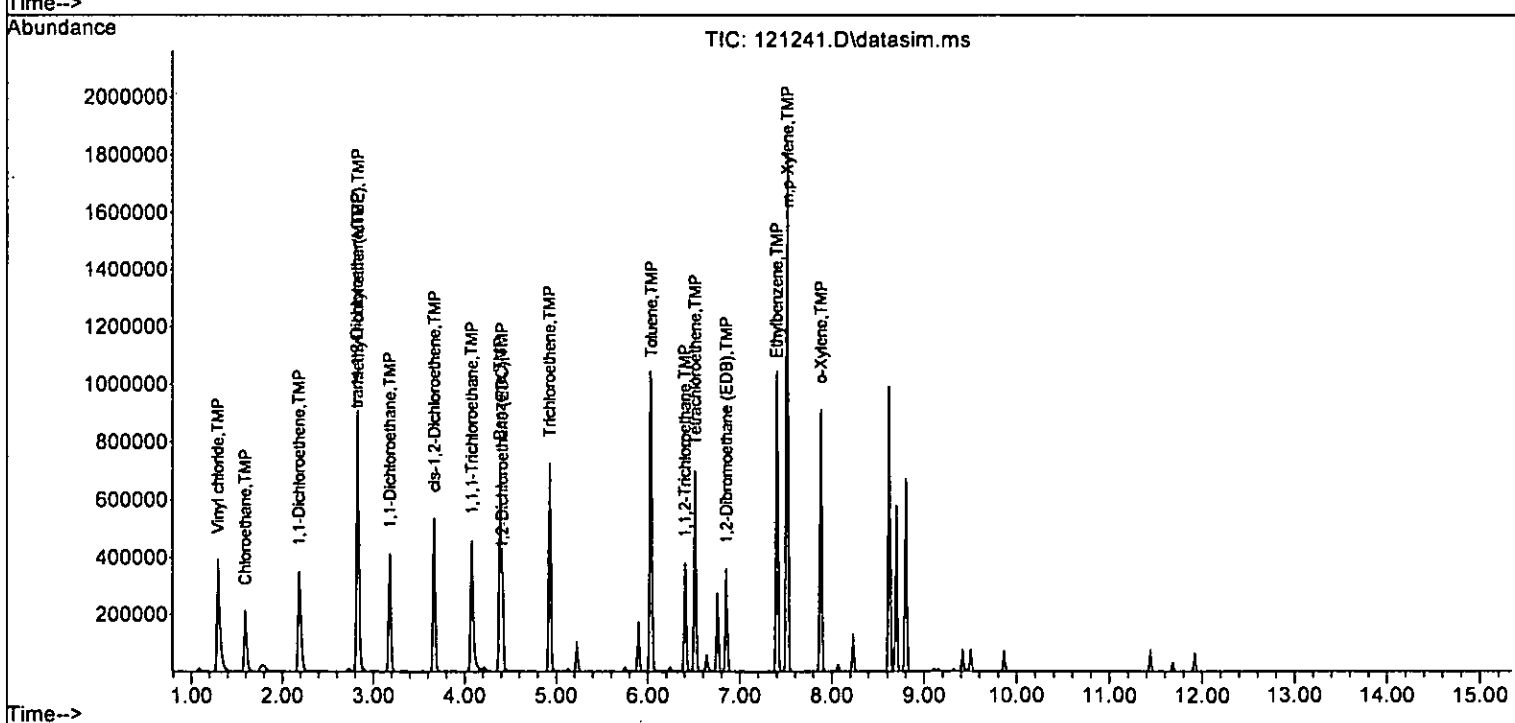
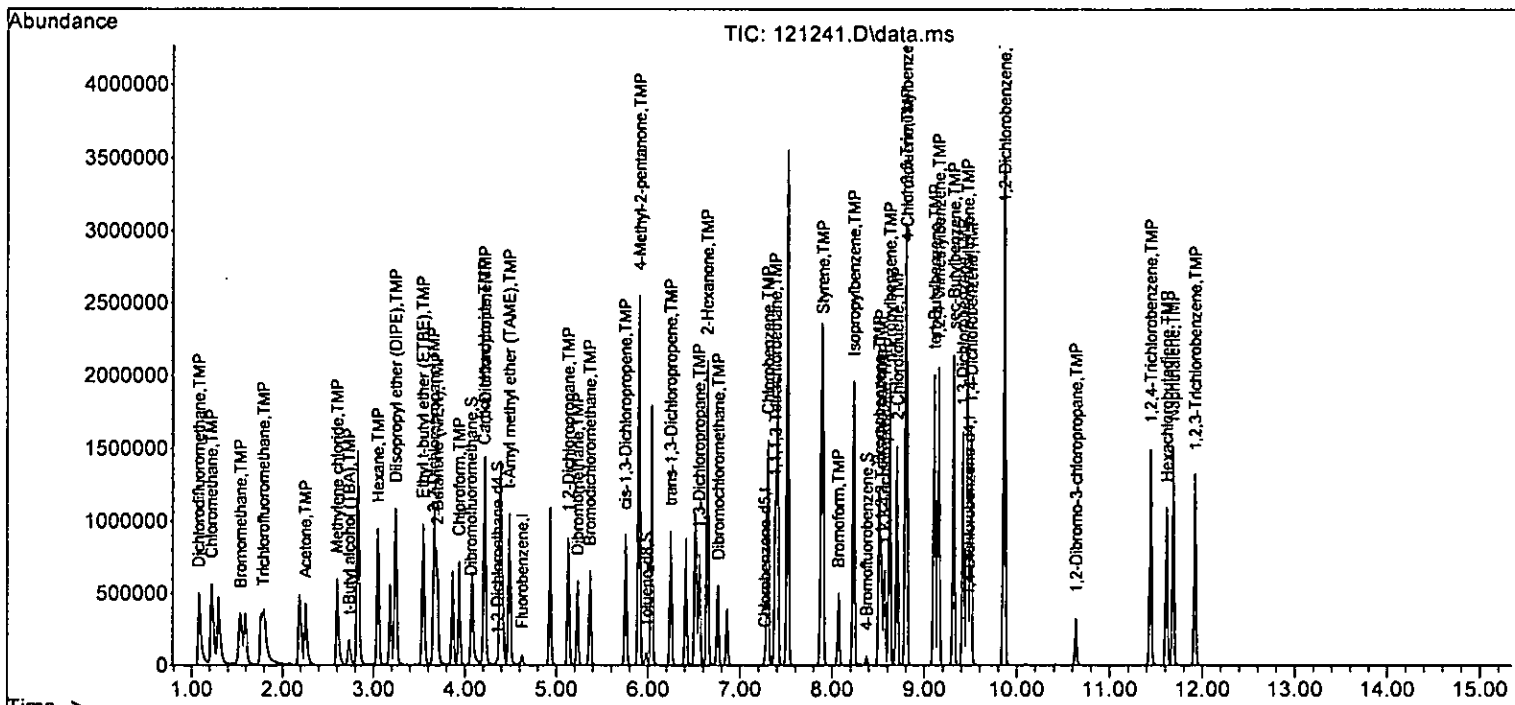
Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	233825	977.670	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	393056	200.117	ppb	99
40] Toluene	6.04	92	614208	191.517	ppb	98
41) trans-1,3-Dichloropropene	6.25	75	366976	202.915	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	193449	196.155	ppb	99
43) 2-Hexanone	6.64	43	1131560	902.158	ppb	97
44) 1,3-Dichloropropane	6.55	76	347933	198.072	ppb	98
45] Tetrachloroethene	6.51	164	241589	188.790	ppb	99
46) Dibromochloromethane	6.76	129	277669	209.916	ppb	96
47] 1,2-Dibromoethane (EDB)	6.85	107	238267	194.643	ppb	99
48) Chlorobenzene	7.30	112	692968	200.291	ppb	99
49] Ethylbenzene	7.40	91	1148153	190.535	ppb	97
50) 1,1,1,2-Tetrachloroethane	7.38	131	260058	208.890	ppb	97
51] m,p-Xylene	7.52	106	862612	379.798	ppb	91
52] o-Xylene	7.88	106	426881	191.876	ppb	95
53) Styrene	7.90	104	717721	197.267	ppb	98
54) Isopropylbenzene	8.23	105	1136970	194.397	ppb	99
55) Bromoform	8.07	173	203165	215.393	ppb	94
58) n-Propylbenzene	8.63	91	1272652	193.174	ppb	96
59) Bromobenzene	8.51	156	309532	200.088	ppb	98
60) 1,3,5-Trimethylbenzene	8.80	105	941465	191.959	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	267646	191.068	ppb	96
62) 1,2,3-Trichloropropane	8.57	75	223236	189.783	ppb	95
63) 2-Chlorotoluene	8.70	91	751222	192.810	ppb	98
64) 4-Chlorotoluene	8.81	91	875859	191.260	ppb	97
65) tert-Butylbenzene	9.11	119	860547	200.213	ppb	99
66) 1,2,4-Trimethylbenzene	9.15	105	986628	198.455	ppb	99
67) sec-Butylbenzene	9.32	105	1250198	200.676	ppb	99
68) p-Isopropyltoluene	9.47	119	1083489	201.968	ppb	98
69) 1,3-Dichlorobenzene	9.42	146	569128	197.661	ppb	98
70) 1,4-Dichlorobenzene	9.51	146	573249	195.446	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	548129	197.850	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.64	75	64894	208.611	ppb	86
73) 1,2,4-Trichlorobenzene	11.44	180	425856	216.478	ppb	98
74) Hexachlorobutadiene	11.61	225	219369	201.749	ppb	91
75) Naphthalene	11.68	128	1022620	196.122	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	389600	214.664	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121241.D  
 Acq On : 13 Dec 2022 03:28 am  
 Operator : LM  
 Sample : 200 ppb 8260 ICAL 68-25U  
 Misc : soil/water  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS11

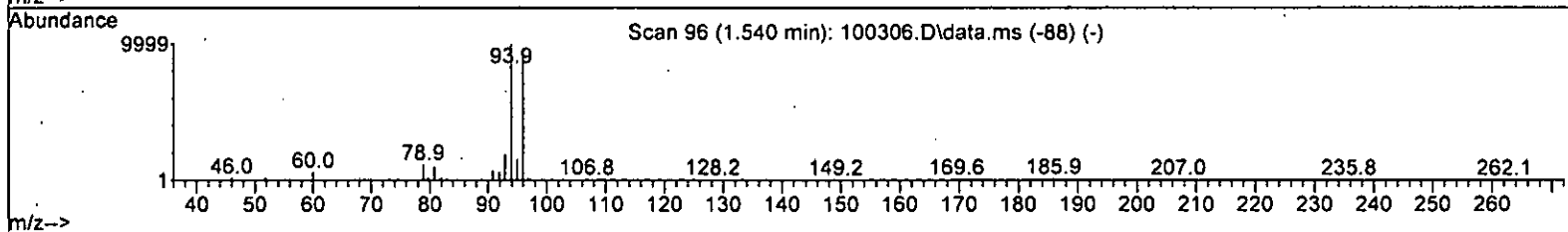
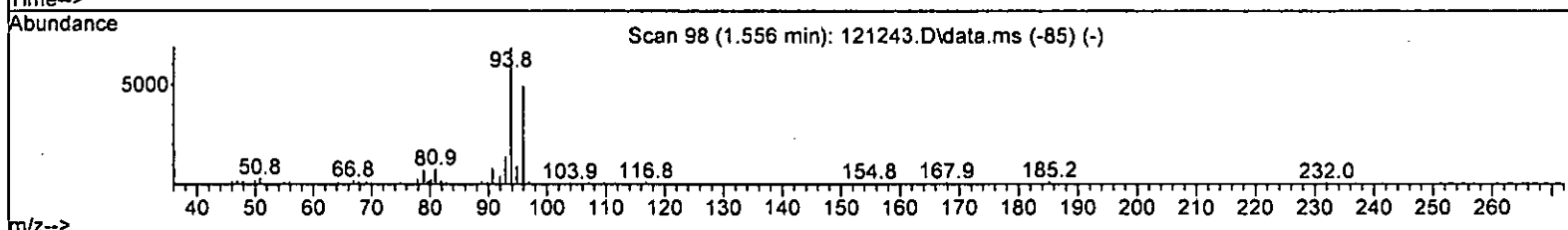
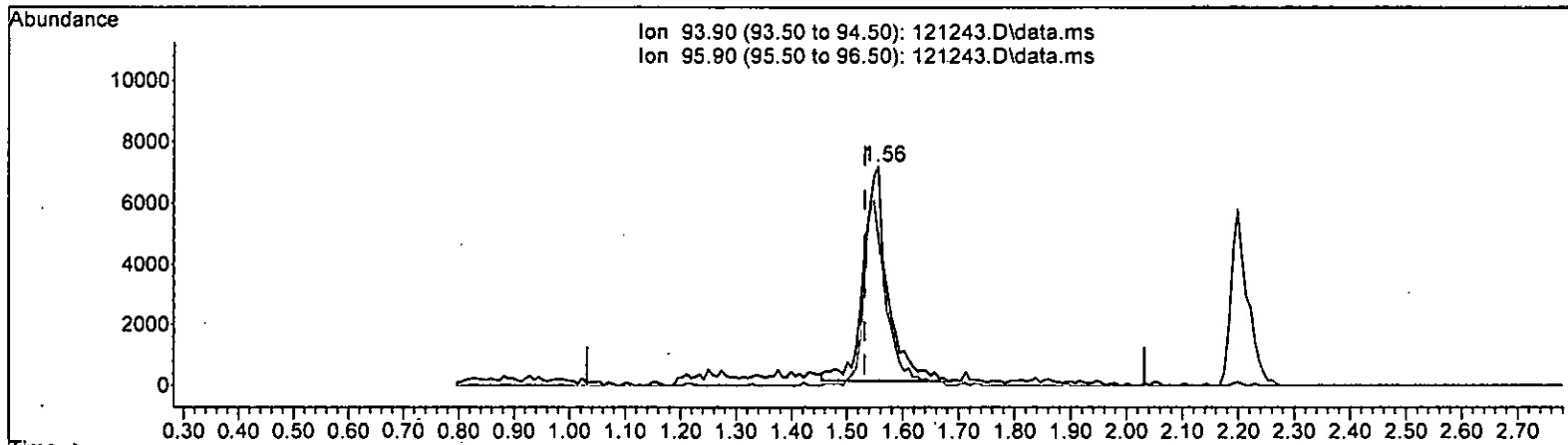
Quant Time: Dec 15 11:22:01 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121243.D\data.ms

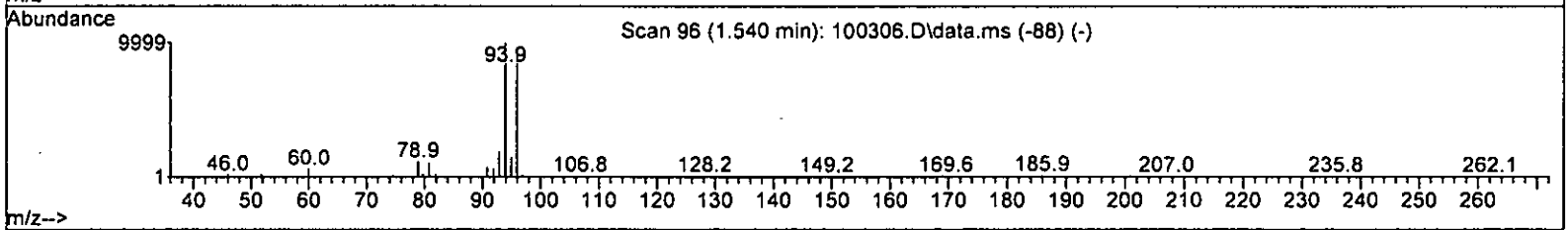
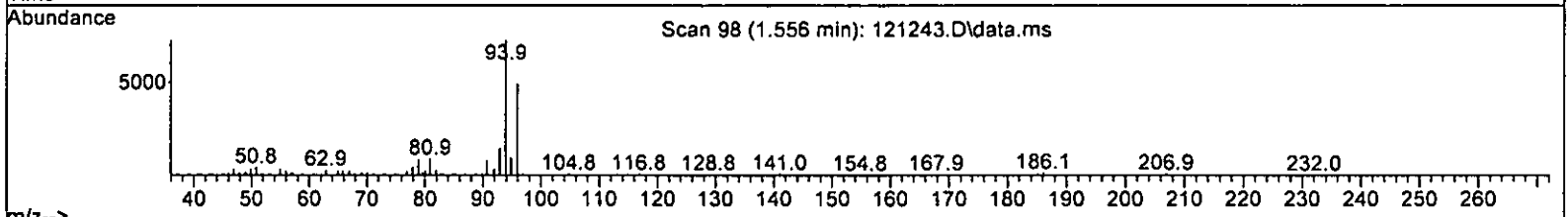
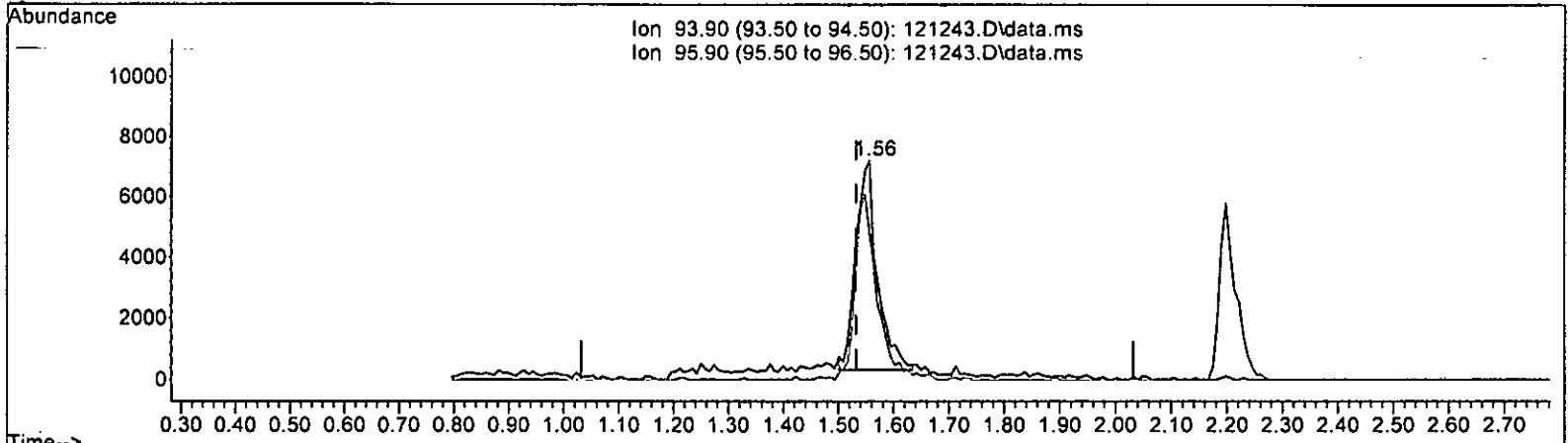
(7) Bromomethane (TMB)		
1.556min (+ 0.024)	11.782 ppb	
response	21279	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	69.20
0.00	0.00	0.00
0.00	0.00	0.00

*12/15 JLM*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121243.D\data.ms

(7) Bromomethane (TMP)

Retention Time (min)	Concentration (ppb m)	Response
1.556min (+ 0.024)	10.175	18377

Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	67.66
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten note: 12/15 JLM*

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	104	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	9.501	5.0	98	0.00
4 TMP Dichlorodifluoromethane	10.000	9.073	9.3	96	0.02
5 TMP Chloromethane	10.000	8.868	11.3	94	0.00
6 TMP Vinyl chloride	10.000	9.860	1.4	100	0.00
7 TMP Bromomethane	10.000	10.175	-1.8	117	0.02
8 TMP Chloroethane	10.000	9.798	2.0	104	0.02
9 TMP Trichlorofluoromethane	10.000	9.673	3.3	103	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	48.632	2.7	109	0.00
12 TMP 1,1-Dichloroethene	10.000	10.504	-5.0	108	0.02
13 TMP Hexane	10.000	9.308	6.9	96	0.00
14 TMP Methylene chloride	10.000	10.260	-2.6	99	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	48.252	3.5	101	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.209	-2.1	102	0.02
17 TMP trans-1,2-Dichloroethene	10.000	10.142	-1.4	104	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	10.114	-1.1	105	0.00
19 TMP 1,1-Dichloroethane	10.000	10.154	-1.5	103	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.280	-2.8	103	0.00
21 TMP 2,2-Dichloropropane	10.000	8.459	15.4	88	0.00
22 TMP cis-1,2-Dichloroethene	10.000	10.077	-0.8	103	0.00
23 TMP Chloroform	10.000	9.577	4.2	104	0.00
24 TMP 2-Butanone (MEK)	50.000	48.688	2.6	104	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	10.204	-2.0	103	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	9.756	2.4	102	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.187	-1.9	105	0.00
28 TMP 1,1-Dichloropropene	10.000	9.736	2.6	100	0.00
29 TMP Carbon tetrachloride	10.000	10.517	-5.2	107	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.150	8.5	90	0.00
31 TMP Benzene	10.000	9.992	0.1	103	0.00
32 TMP Trichloroethene	10.000	10.467	-4.7	108	0.00
33 TMP 1,2-Dichloropropane	10.000	9.694	3.1	101	0.00
34 TMP Bromodichloromethane	10.000	9.792	2.1	103	0.00
35 S Toluene-d8	10.000	9.643	3.6	102	0.00
36 TMP Dibromomethane	10.000	10.247	-2.5	103	0.00
37 TMP 4-Methyl-2-pentanone	50.000	50.643	-1.3	108	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.758	2.4	104	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	103	0.00
40 TMP Toluene	10.000	10.073	-0.7	104	0.01
41 TMP trans-1,3-Dichloropropene	10.000	10.189	-1.9	106	0.00
42 TMP 1,1,2-Trichloroethane	10.000	10.266	-2.7	104	0.00
43 TMP 2-Hexanone	50.000	52.975	-6.0	107	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.494	-4.9	102	0.00
45 TMP Tetrachloroethene	10.000	9.951	0.5	105	0.00
46 TMP Dibromochloromethane	10.000	10.772	-7.7	111	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	10.211	-2.1	105	0.00
48 TMP Chlorobenzene	10.000	10.379	-3.8	106	0.00
49 TMP Ethylbenzene	10.000	10.238	-2.4	104	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.497	-5.0	103	0.00
51 TMP m,p-Xylene	20.000	20.390	-2.0	104	0.00
52 TMP o-Xylene	10.000	10.454	-4.5	105	0.00
53 TMP Styrene	10.000	10.399	-4.0	104	0.00
54 TMP Isopropylbenzene	10.000	10.225	-2.2	103	0.00
55 TMP Bromoform	10.000	9.966	0.3	102	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	101	0.00
57 S 4-Bromofluorobenzene	10.000	10.210	-2.1	102	0.00
58 TMP n-Propylbenzene	10.000	10.435	-4.4	104	0.00
59 TMP Bromobenzene	10.000	10.450	-4.5	105	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.071	-0.7	104	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	9.900	1.0	99	0.00
62 TMP 1,2,3-Trichloropropane	10.000	10.281	-2.8	105	0.00
63 TMP 2-Chlorotoluene	10.000	10.084	-0.8	103	0.00
64 TMP 4-Chlorotoluene	10.000	10.212	-2.1	105	0.00
65 TMP tert-Butylbenzene	10.000	10.358	-3.6	105	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.448	-4.5	106	0.00
67 TMP sec-Butylbenzene	10.000	10.355	-3.6	106	0.00
68 TMP p-Isopropyltoluene	10.000	10.467	-4.7	104	0.00
69 TMP 1,3-Dichlorobenzene	10.000	10.511	-5.1	108	0.00
70 TMP 1,4-Dichlorobenzene	10.000	10.382	-3.8	106	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.521	-5.2	106	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	10.411	-4.1	109	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	10.961	-9.6	112	0.00
74 TMP Hexachlorobutadiene	10.000	10.570	-5.7	107	0.00
75 TMP Naphthalene	10.000	10.130	-1.3	109	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	11.124	-11.2	111	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	104	0.00
2 TMP	Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S	Dibromofluoromethane	0.264	0.251	4.9	98	0.00
4 TMP	Dichlorodifluoromethane	0.688	0.625	9.2	96	0.02
5 TMP	Chloromethane	0.883	0.783	11.3	94	0.00
6 TMP	Vinyl chloride	0.732	0.721	1.5	100	0.00
7 TMP	Bromomethane	0.368	0.375	-1.9	117	0.02
8 TMP	Chloroethane	0.336	0.330	1.8	104	0.02
9 TMP	Trichlorofluoromethane	0.870	0.841	3.3	103	0.00
10 TMP	2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP	Acetone	0.037	0.036	2.7	109	0.00
12 TMP	1,1-Dichloroethene	0.240	0.252	-5.0	108	0.02
13 TMP	Hexane	0.434	0.404	6.9	96	0.00
14 TMP	Methylene chloride	0.269	0.276	-2.6	99	0.00
15 TMP	t-Butyl alcohol (TBA)	0.046	0.045	2.2	101	0.00
16 TMP	Methyl t-butyl ether (MTBE)	0.733	0.748	-2.0	102	0.02
17 TMP	trans-1,2-Dichloroethene	0.272	0.276	-1.5	104	0.00
18 TMP	Diisopropyl ether (DIPE)	0.932	0.943	-1.2	105	0.00
19 TMP	1,1-Dichloroethane	0.504	0.512	-1.6	103	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	0.296	0.304	-2.7	103	0.00
21 TMP	2,2-Dichloropropane	0.316	0.267	15.5	88	0.00
22 TMP	cis-1,2-Dichloroethene	0.286	0.289	-1.0	103	0.00
23 TMP	Chloroform	0.477	0.457	4.2	104	0.00
24 TMP	2-Butanone (MEK)	0.183	0.178	2.7	104	0.00
25 TMP	t-Amyl methyl ether (TAME)	0.694	0.708	-2.0	103	0.00
26 TMP	1,2-Dichloroethane (EDC)	0.413	0.403	2.4	102	0.00
27 TMP	1,1,1-Trichloroethane	0.440	0.448	-1.8	105	0.00
28 TMP	1,1-Dichloropropene	0.362	0.353	2.5	100	0.00
29 TMP	Carbon tetrachloride	0.367	0.386	-5.2	107	0.00
30 S	1,2-Dichloroethane-d4	0.060	0.055	8.3	90	0.00
31 TMP	Benzene	0.999	0.998	0.1	103	0.00
32 TMP	Trichloroethene	0.316	0.330	-4.4	108	0.00
33 TMP	1,2-Dichloropropane	0.296	0.287	3.0	101	0.00
34 TMP	Bromodichloromethane	0.357	0.350	2.0	103	0.00
35 S	Toluene-d8	0.960	0.926	3.5	102	0.00
36 TMP	Dibromomethane	0.169	0.173	-2.4	103	0.00
37 TMP	4-Methyl-2-pentanone	0.052	0.053	-1.9	108	0.00
38 TMP	cis-1,3-Dichloropropene	0.429	0.418	2.6	104	0.00
39 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
40 TMP	Toluene	0.858	0.864	-0.7	104	0.01
41 TMP	trans-1,3-Dichloropropene	0.484	0.493	-1.9	106	0.00
42 TMP	1,1,2-Trichloroethane	0.264	0.271	-2.7	104	0.00
43 TMP	2-Hexanone	0.335	0.355	-6.0	107	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.493	-4.9	102	0.00
45 TMP Tetrachloroethene	0.342	0.341	0.3	105	0.00
46 TMP Dibromochloromethane	0.354	0.381	-7.6	111	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.334	-2.1	105	0.00
48 TMP Chlorobenzene	0.925	0.960	-3.8	106	0.00
49 TMP Ethylbenzene	1.611	1.650	-2.4	104	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.349	-4.8	103	0.00
51 TMP m,p-Xylene	0.607	0.619	-2.0	104	0.00
52 TMP o-Xylene	0.595	0.622	-4.5	105	0.00
53 TMP Styrene	0.973	1.012	-4.0	104	0.00
54 TMP Isopropylbenzene	1.564	1.599	-2.2	103	0.00
55 TMP Bromoform	0.252	0.251	0.4	102	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
57 S 4-Bromofluorobenzene	0.844	0.862	-2.1	102	0.00
58 TMP n-Propylbenzene	3.281	3.424	-4.4	104	0.00
59 TMP Bromobenzene	0.770	0.805	-4.5	105	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.460	-0.7	104	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.691	1.0	99	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.602	-2.7	105	0.00
63 TMP 2-Chlorotoluene	1.941	1.957	-0.8	103	0.00
64 TMP 4-Chlorotoluene	2.281	2.329	-2.1	105	0.00
65 TMP tert-Butylbenzene	2.141	2.217	-3.5	105	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.587	-4.5	106	0.00
67 TMP sec-Butylbenzene	3.103	3.213	-3.5	106	0.00
68 TMP p-Isopropyltoluene	2.672	2.797	-4.7	104	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.507	-5.1	108	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.517	-3.8	106	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.452	-5.2	106	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.161	-3.9	109	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.074	-9.6	112	0.00
74 TMP Hexachlorobutadiene	0.542	0.572	-5.5	107	0.00
75 TMP Naphthalene	2.597	2.631	-1.3	109	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	1.006	-11.3	111	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	49036	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	37606	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	20495	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	12292	9.501	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	95.00%
30) 1,2-Dichloroethane-d4	4.36	102	2707	9.150	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	91.50%
35) Toluene-d8	5.98	98	45397	9.643	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	96.40%
57) 4-Bromofluorobenzene	8.38	95	17667	10.210	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	102.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.09	85	30632	9.073	ppb	100
5) Chloromethane	1.23	50	38388	8.868	ppb	100
6] Vinyl chloride	1.30	62	35379	9.860	ppb	100
7) Bromomethane	1.56	94	18377m	10.175	ppb	
8] Chloroethane	1.61	64	16164	9.798	ppb	100
9) Trichlorofluoromethane	1.80	101	41260	9.673	ppb	100
10) 2-Propanol	2.40	45	277	No Calib		
11) Acetone	2.27	58	8878	48.632	ppb	100
12] 1,1-Dichloroethene	2.20	96	12381	10.504	ppb	100
13) Hexane	3.06	57	19798	9.308	ppb	100
14) Methylene chloride	2.61	84	13535	10.260	ppb	100
15) t-Butyl alcohol (TBA)	2.74	59	10927	48.252	ppb	100
16] Methyl t-butyl ether (...)	2.85	73	36701	10.209	ppb	100
17] trans-1,2-Dichloroethene	2.83	96	13539	10.142	ppb	100
18) Diisopropyl ether (DIPE)	3.25	45	46222	10.114	ppb	100
19] 1,1-Dichloroethane	3.19	63	25109	10.154	ppb	100
20) Ethyl t-butyl ether (E...)	3.55	87	14921	10.280	ppb	100
21) 2,2-Dichloropropane	3.67	77	13107	8.459	ppb	100
22] cis-1,2-Dichloroethene	3.67	96	14151	10.077	ppb	100
23) Chloroform	3.95	83	22401	9.577	ppb	100
24) 2-Butanone (MEK)	3.71	43	43663	48.688	ppb	100
25) t-Amyl methyl ether (T...)	4.50	73	34702	10.204	ppb	100
26] 1,2-Dichloroethane (EDC)	4.42	62	19774	9.756	ppb	100
27] 1,1,1-Trichloroethane	4.08	97	21987	10.187	ppb	100
28) 1,1-Dichloropropene	4.22	75	17293	9.736	ppb	100
29) Carbon tetrachloride	4.22	117	18932	10.517	ppb	100
31] Benzene	4.39	78	48945	9.992	ppb	100
32] Trichloroethene	4.93	95	16197	10.467	ppb	100
33) 1,2-Dichloropropane	5.13	63	14084	9.694	ppb	100
34) Bromodichloromethane	5.37	83	17162	9.792	ppb	100
36) Dibromomethane	5.23	93	8487	10.247	ppb	100

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

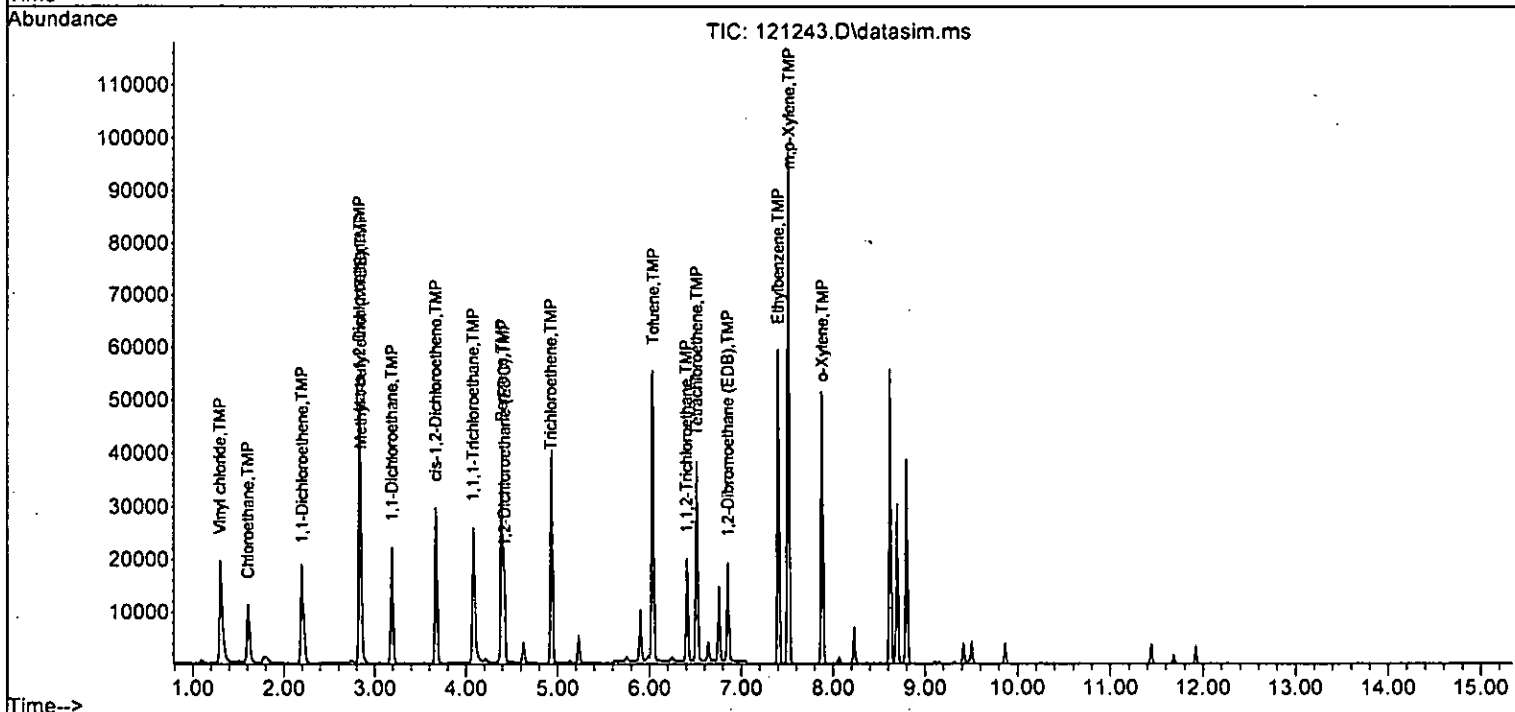
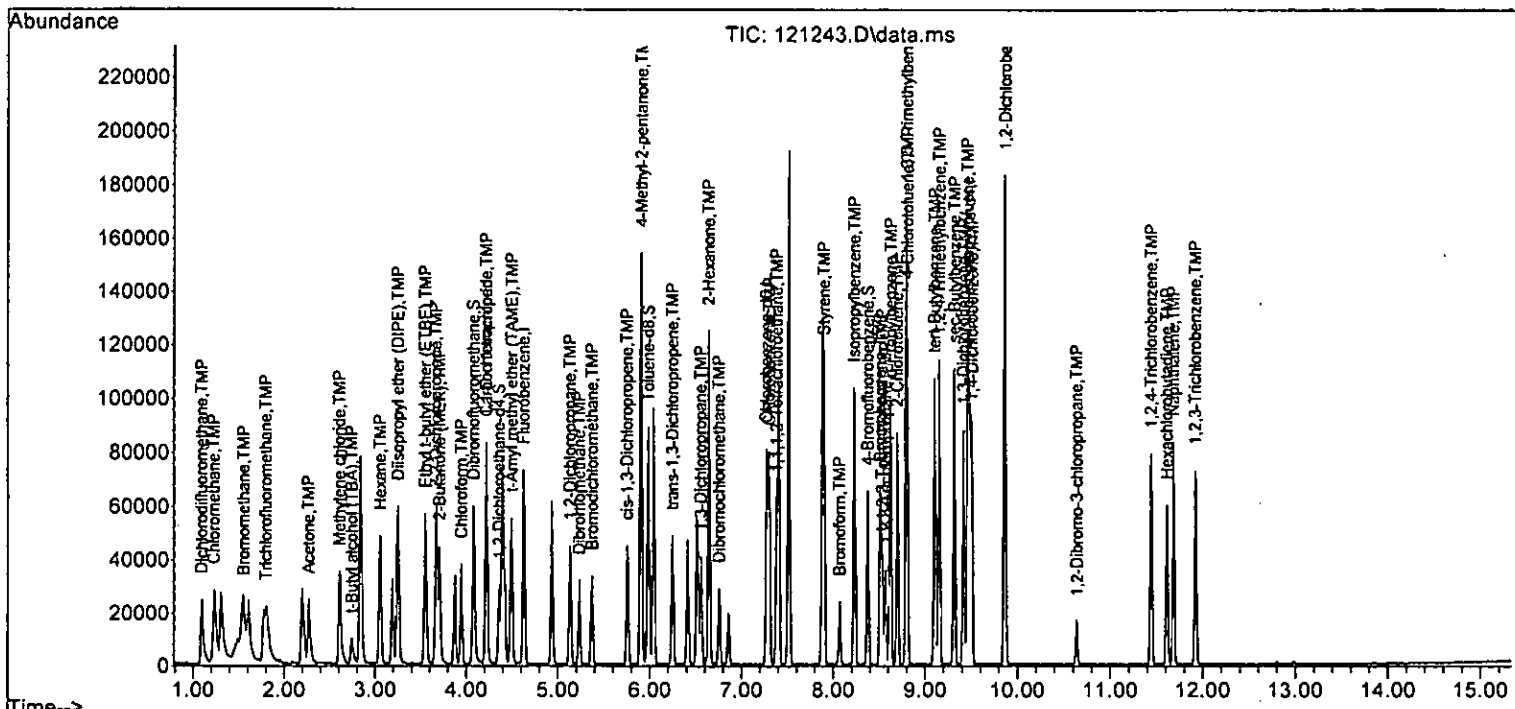
Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	12959	50.643	ppb	100
38) cis-1,3-Dichloropropene	5.75	75	20507	9.758	ppb	100
40] Toluene	6.04	92	32485	10.073	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	18530	10.189	ppb	100
42] 1,1,2-Trichloroethane	6.40	83	10181	10.266	ppb	100
43) 2-Hexanone	6.64	43	66817	52.975	ppb	100
44) 1,3-Dichloropropane	6.55	76	18536	10.494	ppb	100
45] Tetrachloroethene	6.51	164	12805	9.951	ppb	100
46) Dibromochloromethane	6.75	129	14329	10.772	ppb	100
47] 1,2-Dibromoethane (EDB)	6.85	107	12569	10.211	ppb	100
48) Chlorobenzene	7.30	112	36111	10.379	ppb	100
49] Ethylbenzene	7.40	91	62038	10.238	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	13141	10.497	ppb	100
51] m,p-Xylene	7.52	106	46570	20.390	ppb	100
52] o-Xylene	7.88	106	23388	10.454	ppb	100
53) Styrene	7.90	104	38045	10.399	ppb	100
54) Isopropylbenzene	8.23	105	60137	10.225	ppb	100
55) Bromoform	8.07	173	9453	9.966	ppb	100
58) n-Propylbenzene	8.63	91	70177	10.435	ppb	100
59) Bromobenzene	8.51	156	16501	10.450	ppb	100
60) 1,3,5-Trimethylbenzene	8.80	105	50420	10.071	ppb	100
61) 1,1,2,2-Tetrachloroethane	8.53	83	14156	9.900	ppb	100
62) 1,2,3-Trichloropropane	8.57	75	12344	10.281	ppb	100
63) 2-Chlorotoluene	8.70	91	40107	10.084	ppb	100
64) 4-Chlorotoluene	8.81	91	47734	10.212	ppb	100
65) tert-Butylbenzene	9.10	119	45446	10.358	ppb	100
66) 1,2,4-Trimethylbenzene	9.15	105	53023	10.448	ppb	100
67) sec-Butylbenzene	9.32	105	65853	10.355	ppb	100
68) p-Isopropyltoluene	9.46	119	57318	10.467	ppb	100
69) 1,3-Dichlorobenzene	9.42	146	30894	10.511	ppb	100
70) 1,4-Dichlorobenzene	9.51	146	31084	10.382	ppb	100
71) 1,2-Dichlorobenzene	9.86	146	29754	10.521	ppb	100
72) 1,2-Dibromo-3-chloropr...	10.64	75	3306	10.411	ppb	100
73) 1,2,4-Trichlorobenzene	11.44	180	22011	10.961	ppb	100
74) Hexachlorobutadiene	11.61	225	11732	10.570	ppb	100
75) Naphthalene	11.68	128	53915	10.130	ppb	100
76) 1,2,3-Trichlorobenzene	11.92	180	20608	11.124	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS11\12-12-22\  
 Data File : 121243.D  
 Acq On : 13 Dec 2022 04:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 SCV 68-26C  
 Misc : soil/water  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 11:22:03 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



**EPA 8260D**  
**CCV Summaries**

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	101	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 5 Dibromofluoromethane	10.000	10.086	-0.9	103	0.00
4 TMP Dichlorodifluoromethane	10.000	9.891	1.1	100	0.00
5 TMP Chloromethane	10.000	10.040	-0.4	106	0.00
6 TMP Vinyl chloride	10.000	9.968	0.3	98	0.00
7 TMP Bromomethane	10.000	8.916	10.8	96	0.00
8 TMP Chloroethane	10.000	10.734	-7.3	100	-0.02
9 TMP Trichlorofluoromethane	10.000	9.711	2.9	93	0.02
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	51.712	-3.4	106	0.00
12 TMP 1,1-Dichloroethene	10.000	10.128	-1.3	99	0.00
13 TMP Hexane	10.000	10.263	-2.6	103	0.00
14 TMP Methylene chloride	10.000	10.194	-1.9	105	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	48.977	2.0	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.315	-3.1	98	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.448	-4.5	98	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.604	4.0	101	0.00
19 TMP 1,1-Dichloroethane	10.000	10.204	-2.0	99	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	9.765	2.3	96	0.00
21 TMP 2,2-Dichloropropane	10.000	10.400	-4.0	107	0.00
22 TMP cis-1,2-Dichloroethene	10.000	9.989	0.1	98	0.00
23 TMP Chloroform	10.000	9.905	1.0	103	0.00
24 TMP 2-Butanone (MEK)	50.000	47.715	4.6	89	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	9.614	3.9	99	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	10.112	-1.1	99	0.00
27 TMP 1,1,1-Trichloroethane	10.000	9.788	2.1	98	0.00
28 TMP 1,1-Dichloropropene	10.000	9.938	0.6	101	0.00
29 TMP Carbon tetrachloride	10.000	9.862	1.4	100	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.287	7.1	93	0.00
31 TMP Benzene	10.000	9.924	0.8	99	0.00
32 TMP Trichloroethene	10.000	9.563	4.4	93	0.00
33 TMP 1,2-Dichloropropane	10.000	9.385	6.2	101	0.00
34 TMP Bromodichloromethane	10.000	9.171	8.3	97	0.00
35 S Toluene-d8	10.000	9.876	1.2	97	0.00
36 TMP Dibromomethane	10.000	9.307	6.9	97	0.00
37 TMP 4-Methyl-2-pentanone	50.000	47.735	4.5	95	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.482	5.2	97	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	101	0.00
40 TMP Toluene	10.000	9.654	3.5	97	0.00
41 TMP trans-1,3-Dichloropropene	10.000	9.740	2.6	99	0.00
42 TMP 1,1,2-Trichloroethane	10.000	9.471	5.3	97	0.00
43 TMP 2-Hexanone	50.000	50.072	-0.1	100	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	9.584	4.2	98	0.00
45 TMP Tetrachloroethene	10.000	9.798	2.0	100	0.00
46 TMP Dibromochloromethane	10.000	9.793	2.1	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	9.799	2.0	99	0.00
48 TMP Chlorobenzene	10.000	9.786	2.1	102	0.00
49 TMP Ethylbenzene	10.000	10.045	-0.4	97	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	9.447	5.5	101	0.00
51 TMP m,p-Xylene	20.000	19.517	2.4	98	0.00
52 TMP o-Xylene	10.000	9.708	2.9	97	0.00
53 TMP Styrene	10.000	9.612	3.9	99	0.00
54 TMP Isopropylbenzene	10.000	9.373	6.3	97	0.00
55 TMP Bromoform	10.000	9.390	6.1	99	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	10.000	9.978	0.2	101	0.00
58 TMP n-Propylbenzene	10.000	9.795	2.1	99	0.00
59 TMP Bromobenzene	10.000	9.582	4.2	99	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	9.546	4.5	98	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	10.527	-5.3	108	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.533	4.7	98	0.00
63 TMP 2-Chlorotoluene	10.000	9.190	8.1	97	0.00
64 TMP 4-Chlorotoluene	10.000	9.450	5.5	97	0.00
65 TMP tert-Butylbenzene	10.000	9.662	3.4	99	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.292	7.1	97	0.00
67 TMP sec-Butylbenzene	10.000	9.717	2.8	99	0.00
68 TMP p-Isopropyltoluene	10.000	9.623	3.8	97	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.610	3.9	101	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.437	5.6	98	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.844	1.6	98	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.253	7.5	101	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.367	6.3	98	0.00
74 TMP Hexachlorobutadiene	10.000	9.892	1.1	100	0.00
75 TMP Naphthalene	10.000	8.801	12.0	94	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.341	6.6	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	101	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.266	-0.8	103	0.00
4 TMP Dichlorodifluoromethane	0.712	0.704	1.1	100	0.00
5 TMP Chloromethane	0.951	0.871	8.4	106	0.00
6 TMP Vinyl chloride	0.862	0.746	13.5	98	0.00
7 TMP Bromomethane	0.441	0.432	2.0	96	0.00
8 TMP Chloroethane	0.341	0.357	-4.7	100	-0.02
9 TMP Trichlorofluoromethane	0.899	0.873	2.9	93	0.02
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.031	0.032	-3.2	106	0.00
12 TMP 1,1-Dichloroethene	0.271	0.251	7.4	99	0.00
13 TMP Hexane	0.469	0.440	6.2	103	0.00
14 TMP Methylene chloride	0.269	0.286	-6.3	105	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	100	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.812	0.763	6.0	98	0.00
17 TMP trans-1,2-Dichloroethene	0.314	0.279	11.1	98	0.00
18 TMP Diisopropyl ether (DIPE)	0.953	0.915	4.0	101	0.00
19 TMP 1,1-Dichloroethane	0.547	0.508	7.1	99	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.307	0.300	2.3	96	0.00
21 TMP 2,2-Dichloropropane	0.347	0.320	7.8	107	0.00
22 TMP cis-1,2-Dichloroethene	0.329	0.292	11.2	98	0.00
23 TMP Chloroform	0.477	0.472	1.0	103	0.00
24 TMP 2-Butanone (MEK)	0.173	0.159	8.1	89	0.00
25 TMP t-Amyl methyl ether (TAME)	0.739	0.710	3.9	99	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.479	0.398	16.9	99	0.00
27 TMP 1,1,1-Trichloroethane	0.494	0.454	8.1	98	0.00
28 TMP 1,1-Dichloropropene	0.368	0.366	0.5	101	0.00
29 TMP Carbon tetrachloride	0.396	0.391	1.3	100	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.055	8.3	93	0.00
31 TMP Benzene	1.103	1.007	8.7	99	0.00
32 TMP Trichloroethene	0.368	0.305	17.1	93	0.00
33 TMP 1,2-Dichloropropane	0.315	0.295	6.3	101	0.00
34 TMP Bromodichloromethane	0.375	0.344	8.3	97	0.00
35 S Toluene-d8	0.975	0.963	1.2	97	0.00
36 TMP Dibromomethane	0.181	0.169	6.6	97	0.00
37 TMP 4-Methyl-2-pentanone	0.054	0.052	3.7	95	0.00
38 TMP cis-1,3-Dichloropropene	0.443	0.420	5.2	97	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
40 TMP Toluene	0.986	0.833	15.5	97	0.00
41 TMP trans-1,3-Dichloropropene	0.508	0.494	2.8	99	0.00
42 TMP 1,1,2-Trichloroethane	0.285	0.263	7.7	97	0.00
43 TMP 2-Hexanone	0.312	0.312	0.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.484	0.464	4.1	98	0.00
45 TMP Tetrachloroethene	0.420	0.324	22.9#	100	0.00
46 TMP Dibromochloromethane	0.366	0.359	1.9	100	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.379	0.317	16.4	99	0.00
48 TMP Chlorobenzene	0.957	0.937	2.1	102	0.00
49 TMP Ethylbenzene	1.885	1.609	14.6	97	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.358	0.338	5.6	101	0.00
51 TMP m,p-Xylene	0.705	0.599	15.0	98	0.00
52 TMP o-Xylene	0.683	0.584	14.5	97	0.00
53 TMP Styrene	1.004	0.965	3.9	99	0.00
54 TMP Isopropylbenzene	1.606	1.505	6.3	97	0.00
55 TMP Bromoform	0.269	0.253	5.9	99	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
57 S 4-Bromofluorobenzene	0.864	0.862	0.2	101	0.00
58 TMP n-Propylbenzene	3.386	3.317	2.0	99	0.00
59 TMP Bromobenzene	0.790	0.757	4.2	99	0.00
60 TMP 1,3,5-Trimethylbenzene	2.482	2.369	4.6	98	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.733	0.772	-5.3	108	0.00
62 TMP 1,2,3-Trichloropropane	0.599	0.571	4.7	98	0.00
63 TMP 2-Chlorotoluene	2.054	1.888	8.1	97	0.00
64 TMP 4-Chlorotoluene	2.355	2.225	5.5	97	0.00
65 TMP tert-Butylbenzene	2.194	2.119	3.4	99	0.00
66 TMP 1,2,4-Trimethylbenzene	2.575	2.392	7.1	97	0.00
67 TMP sec-Butylbenzene	3.160	3.070	2.8	99	0.00
68 TMP p-Isopropyltoluene	2.706	2.604	3.8	97	0.00
69 TMP 1,3-Dichlorobenzene	1.469	1.412	3.9	101	0.00
70 TMP 1,4-Dichlorobenzene	1.498	1.413	5.7	98	0.00
71 TMP 1,2-Dichlorobenzene	1.361	1.339	1.6	98	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.158	0.146	7.6	101	0.00
73 TMP 1,2,4-Trichlorobenzene	0.978	0.916	6.3	98	0.00
74 TMP Hexachlorobutadiene	0.516	0.510	1.2	100	0.00
75 TMP Naphthalene	2.401	2.114	12.0	94	0.00
76 TMP 1,2,3-Trichlorobenzene	0.885	0.827	6.6	97	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	43966	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35885	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19188	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	11687	10.086	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	100.90%
30) 1,2-Dichloroethane-d4	4.35	102	2434	9.287	ppb	0.00
Spiked Amount	10.000	Range	79 - 128	Recovery	=	92.90%
35) Toluene-d8	5.98	98	42355	9.876	ppb	0.00
Spiked Amount	10.000	Range	84 - 121	Recovery	=	98.80%
57) 4-Bromofluorobenzene	8.38	95	16542	9.978	ppb	0.00
Spiked Amount	10.000	Range	84 - 116	Recovery	=	99.80%
Target Compounds						
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.08	85	30942	9.891	ppb	93
5) Chloromethane	1.22	50	38275	10.040	ppb	91
6] Vinyl chloride	1.29	62	32780	9.968	ppb	96
7) Bromomethane	1.53	94	19001	8.916	ppb	71
8] Chloroethane	1.59	64	15701	10.734	ppb	81
9) Trichlorofluoromethane	1.79	101	38390	9.711	ppb	63
10) 2-Propanol	2.39	45	217	No Calib		
11) Acetone	2.26	58	7094	51.712	ppb	# 78
12] 1,1-Dichloroethene	2.18	96	11015	10.128	ppb	# 82
13) Hexane	3.05	57	19367	10.263	ppb	96
14) Methylene chloride	2.60	84	12596	10.194	ppb	83
15) t-Butyl alcohol (TBA)	2.73	59	9963	48.977	ppb	93
16] Methyl t-butyl ether (...)	2.83	73	33556	10.315	ppb	100
17] trans-1,2-Dichloroethene	2.82	96	12276	10.448	ppb	87
18) Diisopropyl ether (DIPE)	3.24	45	40225	9.604	ppb	98
19] 1,1-Dichloroethane	3.18	63	22329	10.204	ppb	95
20) Ethyl t-butyl ether (E...)	3.55	87	13194	9.765	ppb	# 81
21) 2,2-Dichloropropane	3.66	77	14070	10.400	ppb	87
22] cis-1,2-Dichloroethene	3.66	96	12835	9.989	ppb	87
23) Chloroform	3.94	83	20752	9.905	ppb	88
24) 2-Butanone (MEK)	3.70	43	35017	47.715	ppb	99
25) t-Amyl methyl ether (T...)	4.49	73	31222	9.614	ppb	98
26] 1,2-Dichloroethane (EDC)	4.41	62	17508	10.112	ppb	99
27] 1,1,1-Trichloroethane	4.08	97	19945	9.788	ppb	98
28) 1,1-Dichloropropene	4.21	75	16088	9.938	ppb	91
29) Carbon tetrachloride	4.21	117	17173	9.862	ppb	96
31] Benzene	4.39	78	44275	9.924	ppb	98
32] Trichloroethene	4.93	95	13403	9.563	ppb	94
33) 1,2-Dichloropropane	5.13	63	12991	9.385	ppb	100
34) Bromodichloromethane	5.37	83	15131	9.171	ppb	90
36) Dibromomethane	5.23	93	7420	9.307	ppb	77

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

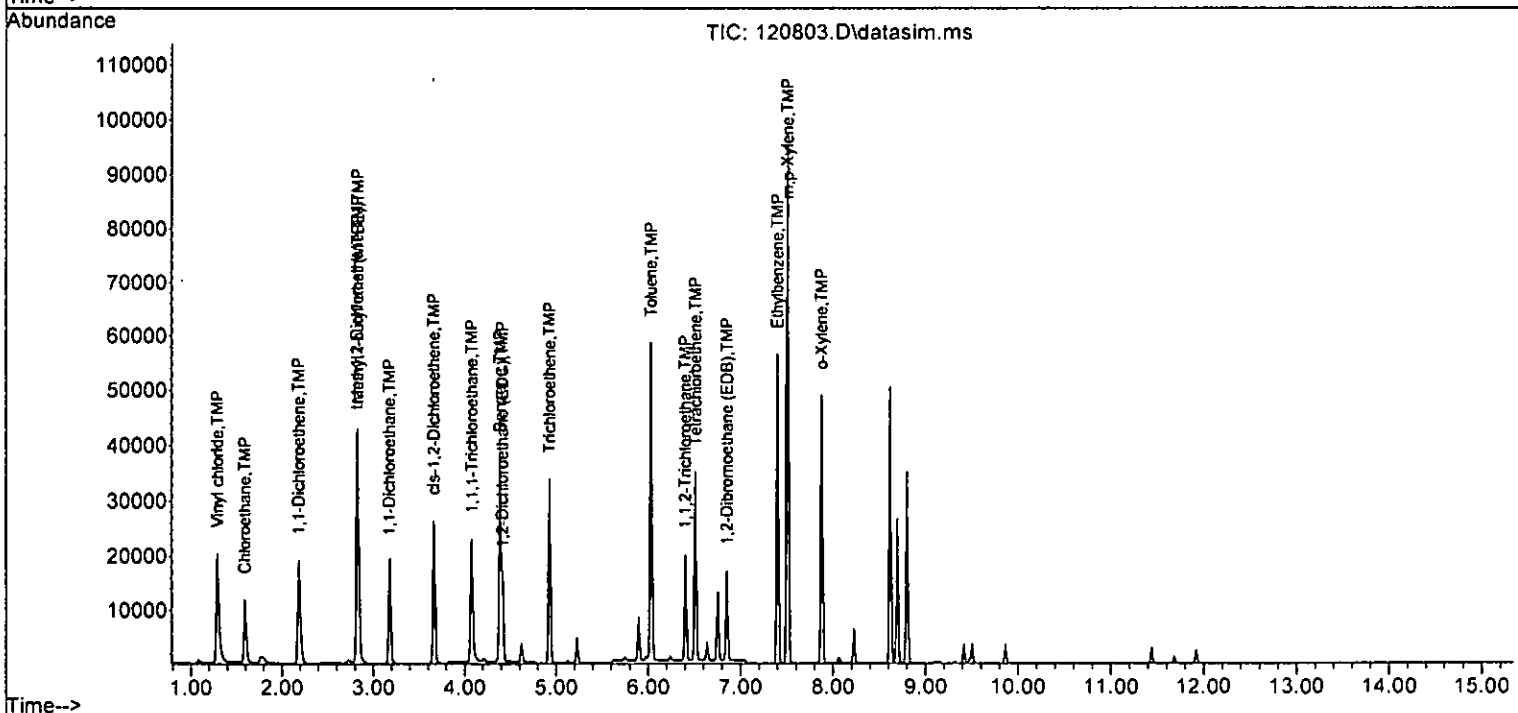
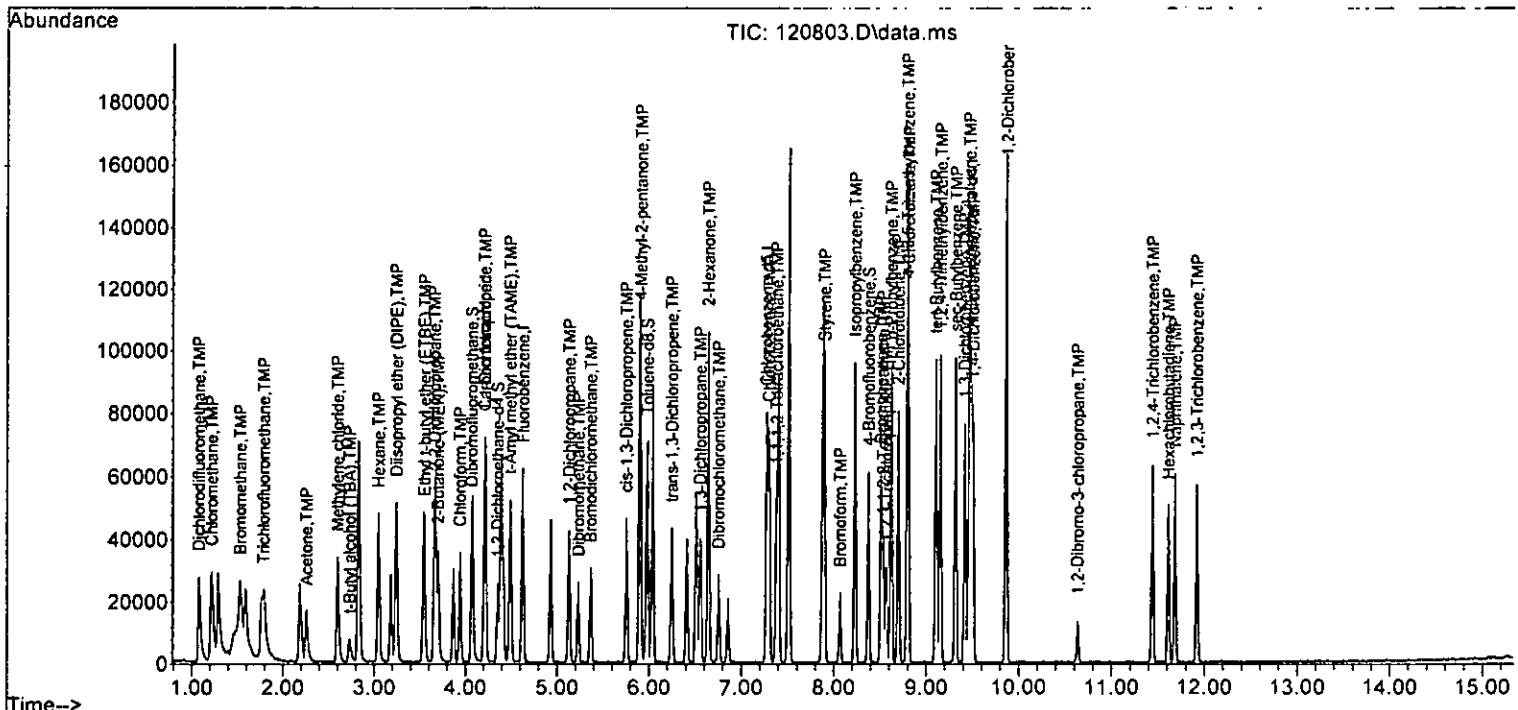
Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11364	47.735	ppb	92
38) cis-1,3-Dichloropropene	5.75	75	18471	9.482	ppb	93
40] Toluene	6.03	92	29904	9.654	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	17743	9.740	ppb	90
42] 1,1,2-Trichloroethane	6.40	83	9422	9.471	ppb	97
43) 2-Hexanone	6.64	43	55982	50.072	ppb	97
44) 1,3-Dichloropropane	6.55	76	16658	9.584	ppb	97
45] Tetrachloroethene	6.51	164	11634	9.798	ppb	98
46) Dibromochloromethane	6.75	129	12867	9.793	ppb	93
47] 1,2-Dibromoethane (EDB)	6.85	107	11358	9.799	ppb	99
48) Chlorobenzene	7.30	112	33615	9.786	ppb	96
49] Ethylbenzene	7.40	91	57722	10.045	ppb	98
50) 1,1,1,2-Tetrachloroethane	7.38	131	12142	9.447	ppb	81
51] m,p-Xylene	7.51	106	42958	19.517	ppb	96
52] o-Xylene	7.88	106	20973	9.708	ppb #	68
53) Styrene	7.90	104	34635	9.612	ppb	91
54) Isopropylbenzene	8.23	105	54023	9.373	ppb	97
55) Bromoform	8.07	173	9066	9.390	ppb	99
58) n-Propylbenzene	8.62	91	63640	9.795	ppb	90
59) Bromobenzene	8.51	156	14516	9.582	ppb	87
60) 1,3,5-Trimethylbenzene	8.79	105	45454	9.546	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	14816	10.527	ppb	82
62) 1,2,3-Trichloropropane	8.57	75	10952	9.533	ppb	91
63) 2-Chlorotoluene	8.70	91	36225	9.190	ppb	97
64) 4-Chlorotoluene	8.81	91	42701	9.450	ppb	99
65) tert-Butylbenzene	9.10	119	40668	9.662	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	45907	9.292	ppb	96
67) sec-Butylbenzene	9.31	105	58916	9.717	ppb	99
68) p-Isopropyltoluene	9.46	119	49972	9.623	ppb	95
69) 1,3-Dichlorobenzene	9.41	146	27088	9.610	ppb	91
70) 1,4-Dichlorobenzene	9.50	146	27118	9.437	ppb	97
71) 1,2-Dichlorobenzene	9.86	146	25702	9.844	ppb	92
72) 1,2-Dibromo-3-chloropr...	10.63	75	2808	9.253	ppb	89
73) 1,2,4-Trichlorobenzene	11.44	180	17585	9.367	ppb	98
74) Hexachlorobutadiene	11.61	225	9786	9.892	ppb	91
75) Naphthalene	11.68	128	40555	8.801	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	15870	9.341	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120803.D  
 Acq On : 08 Dec 2022 06:13 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:43 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCM513\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCM513

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	84	0.01
2 TMP Ethanol	-1.000	0.000	0.0	55	0.00
3 S Dibromofluoromethane	10.000	8.780	12.2	71	0.00
4 TMP Dichlorodifluoromethane	10.000	11.076	-10.8	90	0.01
5 TMP Chloromethane	10.000	12.891	-28.9#	105	0.01
6 TMP Vinyl chloride	10.000	12.756	-27.6#	93	0.01
7 TMP Bromomethane	10.000	11.200	-12.0	84	0.01
8 TMP Chloroethane	10.000	9.926	0.7	76	0.00
9 TMP Trichlorofluoromethane	10.000	9.670	3.3	77	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP Acetone	50.000	56.301	-12.6	101	0.01
12 TMP 1,1-Dichloroethene	10.000	11.619	-16.2	90	0.01
13 TMP Hexane	10.000	14.496	-45.0#	116	0.00
14 TMP Methylene chloride	10.000	13.026	-30.3#	107	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	67.986	-36.0#	113	0.01
16 TMP Methyl t-butyl ether (MTBE)	10.000	12.327	-23.3#	95	0.01
17 TMP trans-1,2-Dichloroethene	10.000	11.685	-16.9	91	0.01
18 TMP Diisopropyl ether (DIPE)	10.000	12.947	-29.5#	95	0.01
19 TMP 1,1-Dichloroethane	10.000	14.171	-41.7#	106	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	10.755	-7.6	86	0.01
21 TMP 2,2-Dichloropropane	10.000	12.618	-26.2#	97	0.00
22 TMP cis-1,2-Dichloroethene	10.000	11.480	-14.8	88	0.00
23 TMP Chloroform	10.000	11.025	-10.3	89	0.00
24 TMP 2-Butanone (MEK)	50.000	60.702	-21.4#	104	0.01
25 TMP t-Amyl methyl ether (TAME)	10.000	12.257	-22.6#	96	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	11.290	-12.9	86	0.01
27 TMP 1,1,1-Trichloroethane	10.000	10.114	-1.1	78	0.00
28 TMP 1,1-Dichloropropene	10.000	11.705	-17.1	96	0.00
29 TMP Carbon tetrachloride	10.000	8.322	16.8	69	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.634	3.7	79	0.00
31 TMP Benzene	10.000	14.325	-43.2#	107	0.00
32 TMP Trichloroethene	10.000	10.963	-9.6	83	0.00
33 TMP 1,2-Dichloropropane	10.000	14.439	-44.4#	108	0.00
34 TMP Bromodichloromethane	10.000	11.054	-10.5	89	0.00
35 S Toluene-d8	10.000	10.453	-4.5	84	0.00
36 TMP Dibromomethane	10.000	11.106	-11.1	88	0.00
37 TMP 4-Methyl-2-pentanone	50.000	54.648	-9.3	89	0.00
38 TMP cis-1,3-Dichloropropene	10.000	11.961	-19.6	99	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	67	0.00
40 TMP Toluene	10.000	13.765	-37.7#	92	0.00
41 TMP trans-1,3-Dichloropropene	10.000	13.482	-34.8#	94	0.00
42 TMP 1,1,2-Trichloroethane	10.000	15.528	-55.3#	103	0.00
43 TMP 2-Hexanone	50.000	78.305	-56.6#	107	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	14.457	-44.6#	97	0.00
45 TMP Tetrachloroethene	10.000	9.082	9.2	62	0.00
46 TMP Dibromochloromethane	10.000	9.298	7.0	63	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	12.343	-23.4#	79	0.00
48 TMP Chlorobenzene	10.000	10.348	-3.5	70	0.00
49 TMP Ethylbenzene	10.000	13.829	-38.3#	89	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	8.959	10.4	61	0.00
51 TMP m,p-Xylene	20.000	23.702	-18.5	76	0.00
52 TMP o-Xylene	10.000	11.222	-12.2	74	0.00
53 TMP Styrene	10.000	10.882	-8.8	74	0.00
54 TMP Isopropylbenzene	10.000	10.879	-8.8	74	0.00
55 TMP Bromoform	10.000	8.674	13.3	59	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	56	0.00
57 S 4-Bromofluorobenzene	10.000	12.726	-27.3#	71	0.00
58 TMP n-Propylbenzene	10.000	14.208	-42.1#	81	0.00
59 TMP Bromobenzene	10.000	9.965	0.4	57	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	12.001	-20.0#	70	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	17.873	-78.7#	103	0.00
62 TMP 1,2,3-Trichloropropane	10.000	16.348	-63.5#	92	0.00
63 TMP 2-Chlorotoluene	10.000	14.133	-41.3#	80	0.00
64 TMP 4-Chlorotoluene	10.000	13.921	-39.2#	79	0.00
65 TMP tert-Butylbenzene	10.000	10.323	-3.2	59	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	11.242	-12.4	66	0.00
67 TMP sec-Butylbenzene	10.000	12.219	-22.2#	70	0.00
68 TMP p-Isopropyltoluene	10.000	10.324	-3.2	60	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.920	0.8	57	0.00
70 TMP 1,4-Dichlorobenzene	10.000	10.130	-1.3	58	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.925	0.7	58	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	13.056	-30.6#	79	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.610	3.9	55	0.00
74 TMP Hexachlorobutadiene	10.000	8.918	10.8	53	0.00
75 TMP Naphthalene	10.000	10.533	-5.3	62	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	10.347	-3.5	61	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	97279	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	70618	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	36798	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	27208	8.780	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	87.80%	
30) 1,2-Dichloroethane-d4	4.45	102	5596	9.634	ppb	0.00
Spiked Amount	10.000	Range 84 - 120	Recovery	=	96.30%	
35) Toluene-d8	6.11	98	91405	10.453	ppb	0.00
Spiked Amount	10.000	Range 73 - 128	Recovery	=	104.50%	
57) 4-Bromofluorobenzene	8.51	95	28376	12.726	ppb	0.00
Spiked Amount	10.000	Range 57 - 146	Recovery	=	127.30%	
Target Compounds						
2) Ethanol	2.33	45	230	No Calib		Qvalue
4) Dichlorodifluoromethane	1.12	85	62754	11.076	ppb	93
5) Chloromethane	1.26	50	48394	12.891	ppb	94
6] Vinyl chloride	1.34	62	46307	12.756	ppb	100
7) Bromomethane	1.58	94	41960	11.200	ppb	95
8] Chloroethane	1.65	64	19292	9.926	ppb	95
9) Trichlorofluoromethane	1.83	101	95520	9.670	ppb	97
10) 2-Propanol	2.33	45	230	No Calib	#	
11) Acetone	2.33	58	13705	56.301	ppb	# 68
12] 1,1-Dichloroethene	2.27	96	28021	11.619	ppb	96
13) Hexane	3.16	57	33324	14.496	ppb	95
14) Methylene chloride	2.68	84	31728	13.026	ppb	95
15) t-Butyl alcohol (TBA)	2.82	59	14747	67.986	ppb	98
16] Methyl t-butyl ether (...)	2.93	73	71434	12.327	ppb	100
17] trans-1,2-Dichloroethene	2.92	96	31188	11.685	ppb	98
18) Diisopropyl ether (DIPE)	3.35	45	67189	12.947	ppb	97
19] 1,1-Dichloroethane	3.27	63	46960	14.171	ppb	94
20) Ethyl t-butyl ether (E...)	3.66	87	30046	10.755	ppb	89
21] 2,2-Dichloropropane	3.76	77	29925	12.618	ppb	88
22] cis-1,2-Dichloroethene	3.77	96	33083	11.480	ppb	85
23) Chloroform	4.04	83	47350	11.025	ppb	100
24) 2-Butanone (MEK)	3.79	43	66234	60.702	ppb	96
25) t-Amyl methyl ether (T...)	4.61	73	65662	12.257	ppb	93
26] 1,2-Dichloroethane (EDC)	4.53	62	33449	11.290	ppb	93
27] 1,1,1-Trichloroethane	4.19	97	46034	10.114	ppb	94
28) 1,1-Dichloropropene	4.33	75	36446	11.705	ppb	89
29) Carbon tetrachloride	4.33	117	40240	8.322	ppb	99
31] Benzene	4.50	78	110210	14.325	ppb	98
32] Trichloroethene	5.05	95	32430	10.963	ppb	# 70
33) 1,2-Dichloropropane	5.24	63	23429	14.439	ppb	94
34) Bromodichloromethane	5.48	83	34022	11.054	ppb	91
36) Dibromomethane	5.34	93	18657	11.106	ppb	# 71

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

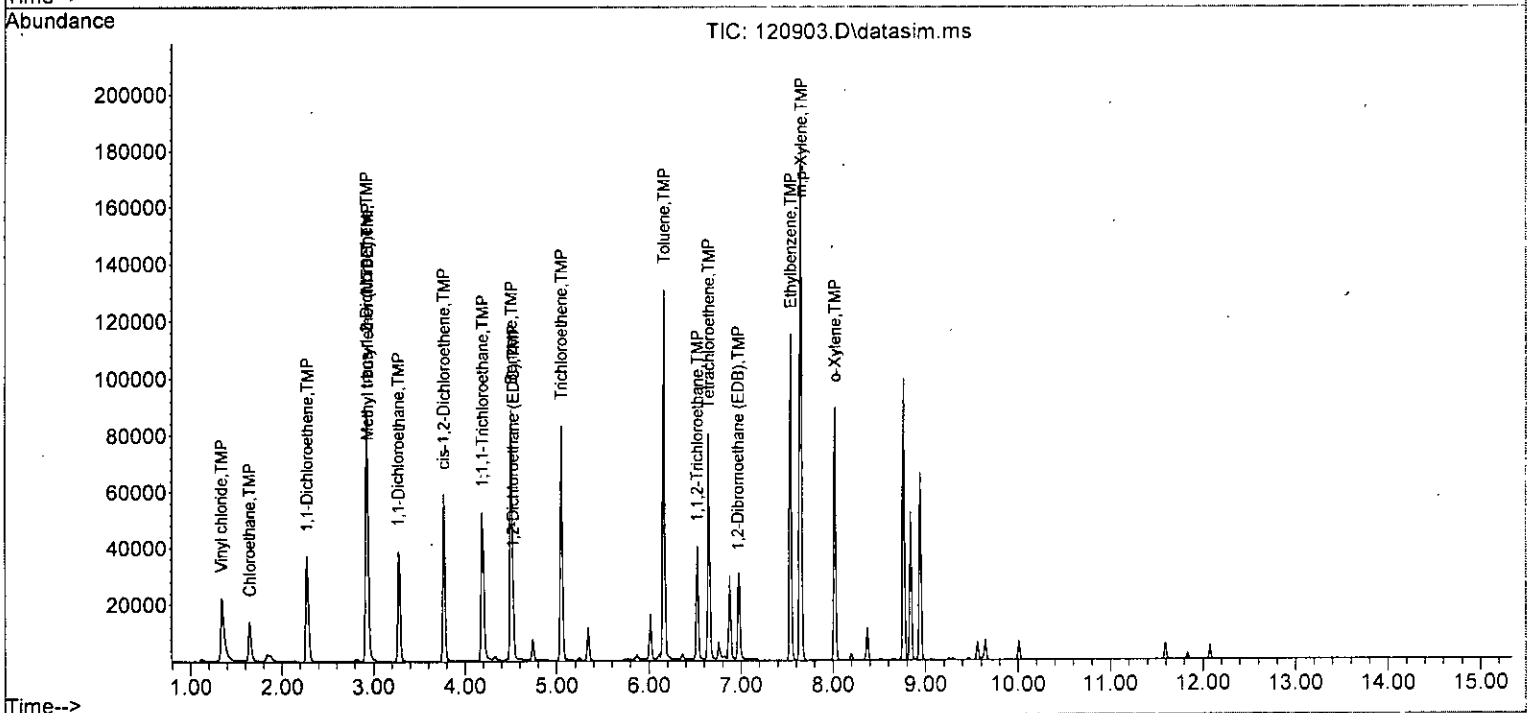
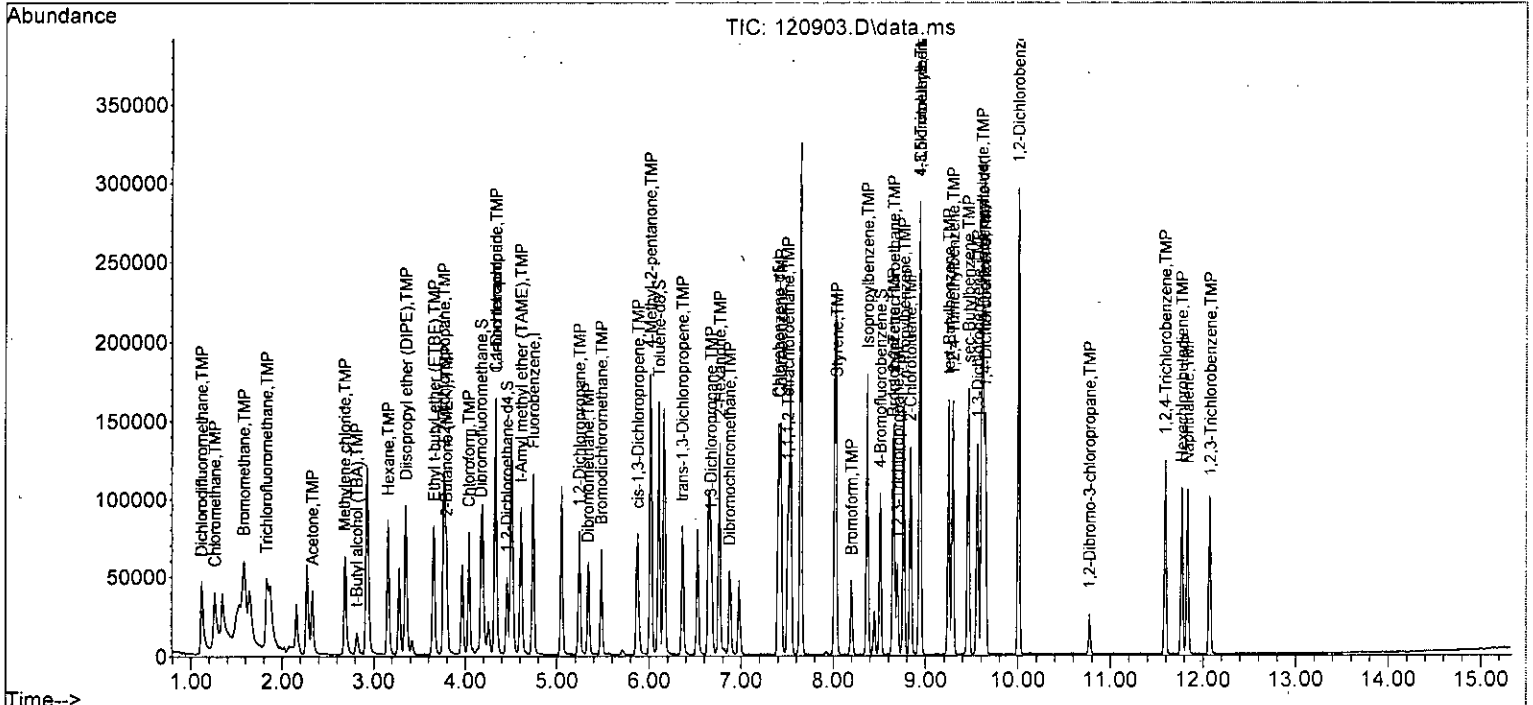
Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	6.01	85	21100	54.648	ppb	# 80
38) cis-1,3-Dichloropropene	5.88	75	38222	11.961	ppb	88
40] Toluene	6.16	92	67582	13.765	ppb	96
41) trans-1,3-Dichloropropene	6.36	75	33872	13.482	ppb	89
42] 1,1,2-Trichloroethane	6.53	83	21444	15.528	ppb	88
43) 2-Hexanone	6.76	43	78261	78.305	ppb	94
44) 1,3-Dichloropropane	6.67	76	34504	14.457	ppb	95
45] Tetrachloroethene	6.65	164	27899	9.082	ppb	98
46) Dibromochloromethane	6.87	129	27917	9.298	ppb	94
47] 1,2-Dibromoethane (EDB)	6.97	107	27323	12.343	ppb	99
48) Chlorobenzene	7.43	112	68916	10.348	ppb	89
49] Ethylbenzene	7.54	91	121053	13.829	ppb	93
50) 1,1,1,2-Tetrachloroethane	7.51	131	26109	8.959	ppb	92
51] m,p-Xylene	7.65	106	91279	23.702	ppb	87
52] o-Xylene	8.02	106	43266	11.222	ppb	86
53) Styrene	8.03	104	65206	10.882	ppb	93
54) Isopropylbenzene	8.37	105	103955	10.879	ppb	93
55) Bromoform	8.20	173	18524	8.674	ppb	99
58) n-Propylbenzene	8.77	91	118019	14.208	ppb	84
59) Bromobenzene	8.65	156	30113	9.965	ppb	# 79
60) 1,3,5-Trimethylbenzene	8.94	105	81069	12.001	ppb	91
61) 1,1,2,2-Tetrachloroethane	8.65	83	28140	17.873	ppb	95
62) 1,2,3-Trichloropropane	8.70	75	20297	16.348	ppb	91
63) 2-Chlorotoluene	8.84	91	66699	14.133	ppb	86
64) 4-Chlorotoluene	8.94	91	79501	13.921	ppb	77
65) tert-Butylbenzene	9.25	119	73922	10.323	ppb	91
66) 1,2,4-Trimethylbenzene	9.30	105	81711	11.242	ppb	94
67) sec-Butylbenzene	9.46	105	107721	12.219	ppb	93
68) p-Isopropyltoluene	9.61	119	91168	10.324	ppb	95
69) 1,3-Dichlorobenzene	9.56	146	53885	9.920	ppb	99
70) 1,4-Dichlorobenzene	9.64	146	54260	10.130	ppb	96
71) 1,2-Dichlorobenzene	10.01	146	51935	9.925	ppb	96
72) 1,2-Dibromo-3-chloropr...	10.77	75	4351	13.056	ppb	# 71
73) 1,2,4-Trichlorobenzene	11.59	180	35265	9.610	ppb	98
74) Hexachlorobutadiene	11.77	225	19285	8.918	ppb	96
75) Naphthalene	11.83	128	75133	10.533	ppb	100
76) 1,2,3-Trichlorobenzene	12.08	180	30048	10.347	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	84	0.01
2 TMP Ethanol	0.000	0.000#	0.0	55	0.00
3 S Dibromofluoromethane	0.319	0.280	12.2	71	0.00
4 TMP Dichlorodifluoromethane	0.582	0.645	-10.8	90	0.01
5 TMP Chloromethane	0.386	0.497	-28.8#	105	0.01
6 TMP Vinyl chloride	0.373	0.476	-27.6#	93	0.01
7 TMP Bromomethane	0.385	0.431	-11.9	84	0.01
8 TMP Chloroethane	0.200	0.198	1.0	76	0.00
9 TMP Trichlorofluoromethane	1.015	0.982	3.3	77	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.022	0.028	-27.3#	101	0.01
12 TMP 1,1-Dichloroethene	0.248	0.288	-16.1	90	0.01
13 TMP Hexane	0.236	0.343	-45.3#	116	0.00
14 TMP Methylene chloride	0.247	0.326	-32.0#	107	0.00
15 TMP t-Butyl alcohol (TBA)	0.022	0.030	-36.4#	113	0.01
16 TMP Methyl t-butyl ether (MTBE)	0.596	0.734	-23.2#	95	0.01
17 TMP trans-1,2-Dichloroethene	0.274	0.321	-17.2	91	0.01
18 TMP Diisopropyl ether (DIPE)	0.533	0.691	-29.6#	95	0.01
19 TMP 1,1-Dichloroethane	0.341	0.483	-41.6#	106	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.287	0.309	-7.7	86	0.01
21 TMP 2,2-Dichloropropane	0.297	0.308	-3.7	97	0.00
22 TMP cis-1,2-Dichloroethene	0.296	0.340	-14.9	88	0.00
23 TMP Chloroform	0.441	0.487	-10.4	89	0.00
24 TMP 2-Butanone (MEK)	0.102	0.136	-33.3#	104	0.01
25 TMP t-Amyl methyl ether (TAME)	0.551	0.675	-22.5#	96	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.334	0.344	-3.0	86	0.01
27 TMP 1,1,1-Trichloroethane	0.468	0.473	-1.1	78	0.00
28 TMP 1,1-Dichloropropene	0.320	0.375	-17.2	96	0.00
29 TMP Carbon tetrachloride	0.497	0.414	16.7	69	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.058	3.3	79	0.00
31 TMP Benzene	0.849	1.133	-33.5#	107	0.00
32 TMP Trichloroethene	0.304	0.333	-9.5	83	0.00
33 TMP 1,2-Dichloropropane	0.189	0.241	-27.5#	108	0.00
34 TMP Bromodichloromethane	0.316	0.350	-10.8	89	0.00
35 S Toluene-d8	0.899	0.940	-4.6	84	0.00
36 TMP Dibromomethane	0.173	0.192	-11.0	88	0.00
37 TMP 4-Methyl-2-pentanone	0.040	0.043	-7.5	89	0.00
38 TMP cis-1,3-Dichloropropene	0.329	0.393	-19.5	99	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	67	0.00
40 TMP Toluene	0.719	0.957	-33.1#	92	0.00
41 TMP trans-1,3-Dichloropropene	0.356	0.480	-34.8#	94	0.00
42 TMP 1,1,2-Trichloroethane	0.204	0.304	-49.0#	103	0.00
43 TMP 2-Hexanone	0.142	0.222	-56.3#	107	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120903.D  
 Acq On : 09 Dec 2022 08:29 am  
 Operator : lm  
 Sample : 10 ppb 8260 CCV 67-97N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 08:46:08 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.338	0.489	-44.7#	97	0.00
45 TMP Tetrachloroethene	0.443	0.395	10.8	62	0.00
46 TMP Dibromochloromethane	0.425	0.395	7.1	63	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.335	0.387	-15.5	79	0.00
48 TMP Chlorobenzene	0.943	0.976	-3.5	70	0.00
49 TMP Ethylbenzene	1.560	1.714	-9.9	89	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.413	0.370	10.4	61	0.00
51 TMP m,p-Xylene	0.718	0.646	10.0	76	0.00
52 TMP o-Xylene	0.611	0.613	-0.3	74	0.00
53 TMP Styrene	0.848	0.923	-8.8	74	0.00
54 TMP Isopropylbenzene	1.353	1.472	-8.8	74	0.00
55 TMP Bromoform	0.302	0.262	13.2	59	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	56	0.00
57 S 4-Bromofluorobenzene	0.606	0.771	-27.2#	71	0.00
58 TMP n-Propylbenzene	2.257	3.207	-42.1#	81	0.00
59 TMP Bromobenzene	0.821	0.818	0.4	57	0.00
60 TMP 1,3,5-Trimethylbenzene	1.836	2.203	-20.0	70	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.433	0.765	-76.7#	103	0.00
62 TMP 1,2,3-Trichloropropane	0.337	0.552	-63.8#	92	0.00
63 TMP 2-Chlorotoluene	1.282	1.813	-41.4#	80	0.00
64 TMP 4-Chlorotoluene	1.552	2.160	-39.2#	79	0.00
65 TMP tert-Butylbenzene	1.946	2.009	-3.2	59	0.00
66 TMP 1,2,4-Trimethylbenzene	1.975	2.221	-12.5	66	0.00
67 TMP sec-Butylbenzene	2.396	2.927	-22.2#	70	0.00
68 TMP p-Isopropyltoluene	2.400	2.478	-3.3	60	0.00
69 TMP 1,3-Dichlorobenzene	1.476	1.464	0.8	57	0.00
70 TMP 1,4-Dichlorobenzene	1.456	1.475	-1.3	58	0.00
71 TMP 1,2-Dichlorobenzene	1.422	1.411	0.8	58	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.091	0.118	-29.7#	79	0.00
73 TMP 1,2,4-Trichlorobenzene	0.997	0.958	3.9	55	0.00
74 TMP Hexachlorobutadiene	0.588	0.524	10.9	53	0.00
75 TMP Naphthalene	1.938	2.042	-5.4	62	0.00
76 TMP 1,2,3-Trichlorobenzene	0.789	0.817	-3.5	61	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq On : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	10.000	10.000	0.0	102	0.00
2 TMP	Ethanol	-1.000	0.000	0.0	0	0.00
3 S	Dibromofluoromethane	10.000	10.461	-4.6	106	0.00
4 TMP	Dichlorodifluoromethane	10.000	10.571	-5.7	110	0.02
5 TMP	Chloromethane	10.000	9.861	1.4	103	0.00
6 TMP	Vinyl chloride	10.000	10.415	-4.1	104	0.00
7 TMP	Bromomethane	10.000	11.889	-18.9	134	0.02
8 TMP	Chloroethane	10.000	10.738	-7.4	111	0.02
9 TMP	Trichlorofluoromethane	10.000	9.865	1.3	103	-0.01
10 TMP	2-Propanol	-1.000	0.000	0.0	0	0.00
11 TMP	Acetone	50.000	41.731	16.5	91	0.00
12 TMP	1,1-Dichloroethene	10.000	10.095	-1.0	101	0.00
13 TMP	Hexane	10.000	10.122	-1.2	102	0.00
14 TMP	Methylene chloride	10.000	11.259	-12.6	107	0.00
15 TMP	t-Butyl alcohol (TBA)	50.000	45.609	8.8	94	0.00
16 TMP	Methyl t-butyl ether (MTBE)	10.000	10.316	-3.2	101	0.00
17 TMP	trans-1,2-Dichloroethene	10.000	10.163	-1.6	102	0.00
18 TMP	Diisopropyl ether (DIPE)	10.000	10.150	-1.5	103	0.00
19 TMP	1,1-Dichloroethane	10.000	10.198	-2.0	101	0.00
20 TMP	Ethyl t-butyl ether (ETBE)	10.000	10.086	-0.9	99	0.00
21 TMP	2,2-Dichloropropane	10.000	10.112	-1.1	103	0.00
22 TMP	cis-1,2-Dichloroethene	10.000	10.128	-1.3	102	0.00
23 TMP	Chloroform	10.000	10.013	-0.1	106	0.00
24 TMP	2-Butanone (MEK)	50.000	48.231	3.5	100	0.00
25 TMP	t-Amyl methyl ether (TAME)	10.000	10.155	-1.5	100	0.00
26 TMP	1,2-Dichloroethane (EDC)	10.000	9.774	2.3	100	0.00
27 TMP	1,1,1-Trichloroethane	10.000	10.224	-2.2	103	0.00
28 TMP	1,1-Dichloropropene	10.000	9.793	2.1	99	0.00
29 TMP	Carbon tetrachloride	10.000	10.518	-5.2	105	0.00
30 S	1,2-Dichloroethane-d4	10.000	9.527	4.7	91	0.00
31 TMP	Benzene	10.000	10.070	-0.7	101	0.00
32 TMP	Trichloroethene	10.000	9.606	3.9	97	0.00
33 TMP	1,2-Dichloropropane	10.000	9.761	2.4	100	0.00
34 TMP	Bromodichloromethane	10.000	9.904	1.0	102	0.00
35 S	Toluene-d8	10.000	9.981	0.2	103	0.00
36 TMP	Dibromomethane	10.000	10.017	-0.2	98	0.00
37 TMP	4-Methyl-2-pentanone	50.000	47.207	5.6	98	0.00
38 TMP	cis-1,3-Dichloropropene	10.000	9.758	2.4	102	0.00
39 I	Chlorobenzene-d5	10.000	10.000	0.0	102	0.00
40 TMP	Toluene	10.000	9.919	0.8	101	0.00
41 TMP	trans-1,3-Dichloropropene	10.000	9.684	3.2	99	0.00
42 TMP	1,1,2-Trichloroethane	10.000	10.064	-0.6	101	0.00
43 TMP	2-Hexanone	50.000	44.185	11.6	88	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq Dn : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.153	-1.5	98	0.00
45 TMP Tetrachloroethene	10.000	9.803	2.0	101	0.00
46 TMP Dibromochloromethane	10.000	10.023	-0.2	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	9.892	1.1	100	0.00
48 TMP Chlorobenzene	10.000	10.264	-2.6	103	0.00
49 TMP Ethylbenzene	10.000	10.100	-1.0	101	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.085	-0.9	97	0.00
51 TMP m,p-Xylene	20.000	20.056	-0.3	101	0.00
52 TMP o-Xylene	10.000	10.051	-0.5	100	0.00
53 TMP Styrene	10.000	9.884	1.2	98	0.00
54 TMP Isopropylbenzene	10.000	9.947	0.5	98	0.00
55 TMP Bromoform	10.000	9.802	2.0	98	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	98	0.00
57 S 4-Bromofluorobenzene	10.000	9.529	4.7	92	0.00
58 TMP n-Propylbenzene	10.000	10.274	-2.7	99	0.00
59 TMP Bromobenzene	10.000	10.173	-1.7	99	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.157	-1.6	101	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	10.732	-7.3	103	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.451	5.5	94	0.00
63 TMP 2-Chlorotoluene	10.000	10.066	-0.7	99	0.00
64 TMP 4-Chlorotoluene	10.000	9.926	0.7	99	0.00
65 TMP tert-Butylbenzene	10.000	10.054	-0.5	99	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	9.986	0.1	98	0.00
67 TMP sec-Butylbenzene	10.000	10.101	-1.0	100	0.00
68 TMP p-Isopropyltoluene	10.000	10.274	-2.7	99	0.00
69 TMP 1,3-Dichlorobenzene	10.000	9.770	2.3	97	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.887	1.1	97	0.00
71 TMP 1,2-Dichlorobenzene	10.000	9.955	0.4	97	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.125	8.8	92	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	9.810	1.9	97	0.00
74 TMP Hexachlorobutadiene	10.000	9.783	2.2	96	0.00
75 TMP Naphthalene	10.000	8.738	12.6	91	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.495	5.1	92	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq On : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-1S0N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	47985	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	37060	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19799	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	13244	10.461	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	104.60%		
30) 1,2-Dichloroethane-d4	4.36	102	2758	9.527	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	95.30%		
35) Toluene-d8	5.98	98	45984	9.981	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	99.80%		
57) 4-Bromofluorobenzene	8.38	95	15928	9.529	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	95.30%		
Target Compounds							
2) Ethanol	1.85	45	74	No Calib			Qvalue
4) Dichlorodifluoromethane	1.09	85	34923	10.571	ppb	98	
5) Chloromethane	1.23	50	41773	9.861	ppb	99	
6] Vinyl chloride	1.30	62	36571	10.415	ppb	97	
7) Bromomethane	1.55	94	21012	11.889	ppb	68	
8] Chloroethane	1.61	64	17334	10.738	ppb	99	
9) Trichlorofluoromethane	1.78	101	41177	9.865	ppb	100	
10) 2-Propanol	2.40	45	237	No Calib			
11) Acetone	2.27	58	7455	41.731	ppb	99	
12] 1,1-Dichloroethene	2.19	96	11644	10.095	ppb	82	
13) Hexane	3.06	57	21066	10.122	ppb	99	
14) Methylene chloride	2.61	84	14534	11.259	ppb	96	
15) t-Butyl alcohol (TBA)	2.74	59	10107	45.609	ppb	96	
16] Methyl t-butyl ether (...)	2.84	73	36294	10.316	ppb	97	
17] trans-1,2-Dichloroethene	2.83	96	13277	10.163	ppb	95	
18) Diisopropyl ether (DIPE)	3.24	45	45394	10.150	ppb	99	
19] 1,1-Dichloroethane	3.18	63	24677	10.198	ppb	95	
20] Ethyl t-butyl ether (E...)	3.55	87	14326	10.086	ppb	92	
21] 2,2-Dichloropropane	3.67	77	15332	10.112	ppb	93	
22] cis-1,2-Dichloroethene	3.67	96	13918	10.128	ppb	97	
23) Chloroform	3.95	83	22918	10.013	ppb	98	
24) 2-Butanone (MEK)	3.71	43	42326	48.231	ppb	99	
25) t-Amyl methyl ether (T...)	4.49	73	33795	10.155	ppb	97	
26] 1,2-Dichloroethane (EDC)	4.42	62	19386	9.774	ppb	99	
27] 1,1,1-Trichloroethane	4.08	97	21595	10.224	ppb	97	
28) 1,1-Dichloropropene	4.22	75	17022	9.793	ppb	99	
29) Carbon tetrachloride	4.21	117	18528	10.518	ppb	98	
31] Benzene	4.39	78	48270	10.070	ppb	98	
32] Trichloroethene	4.93	95	14547	9.606	ppb	95	
33) 1,2-Dichloropropane	5.13	63	13877	9.761	ppb	99	
34) Bromodichloromethane	5.37	83	16986	9.904	ppb	93	
36) Dibromomethane	5.23	93	8118	10.017	ppb	94	



Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq On : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

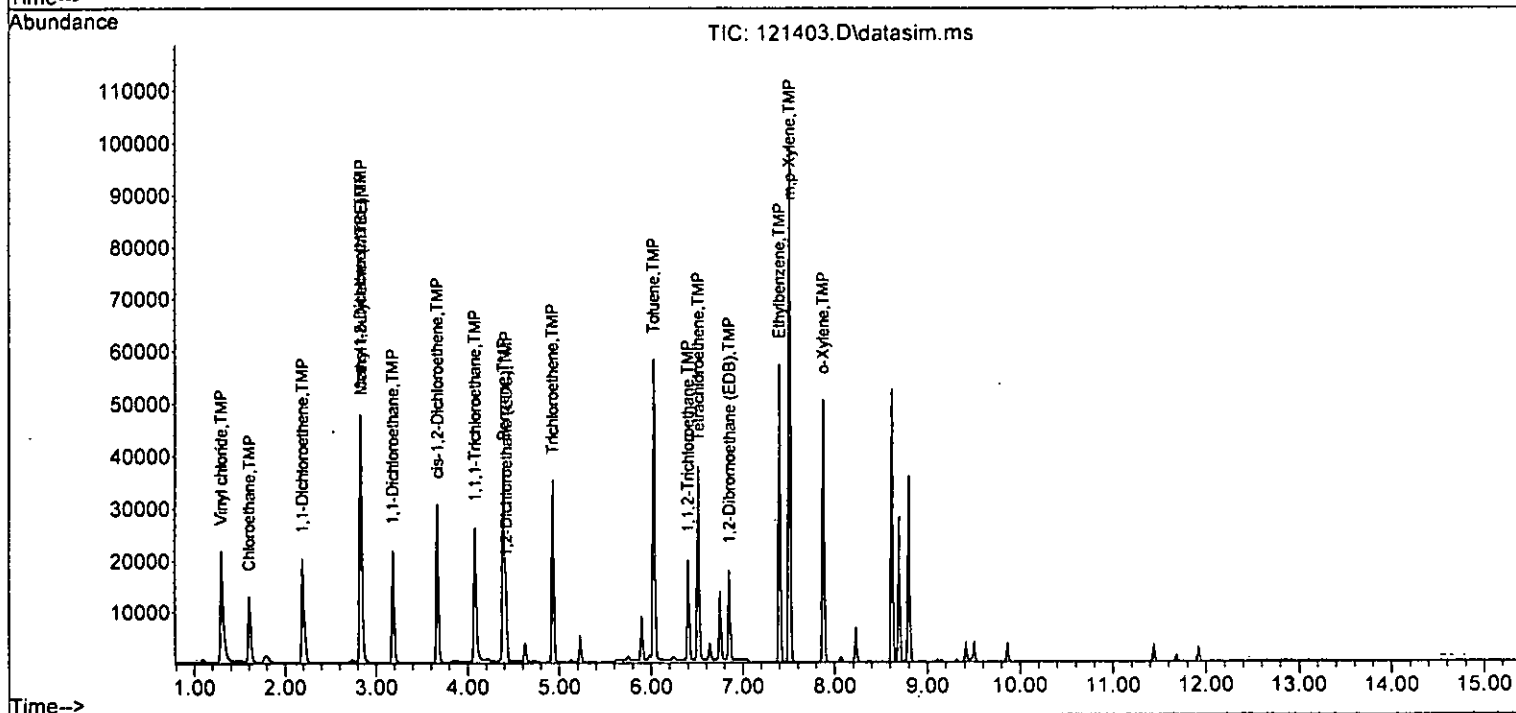
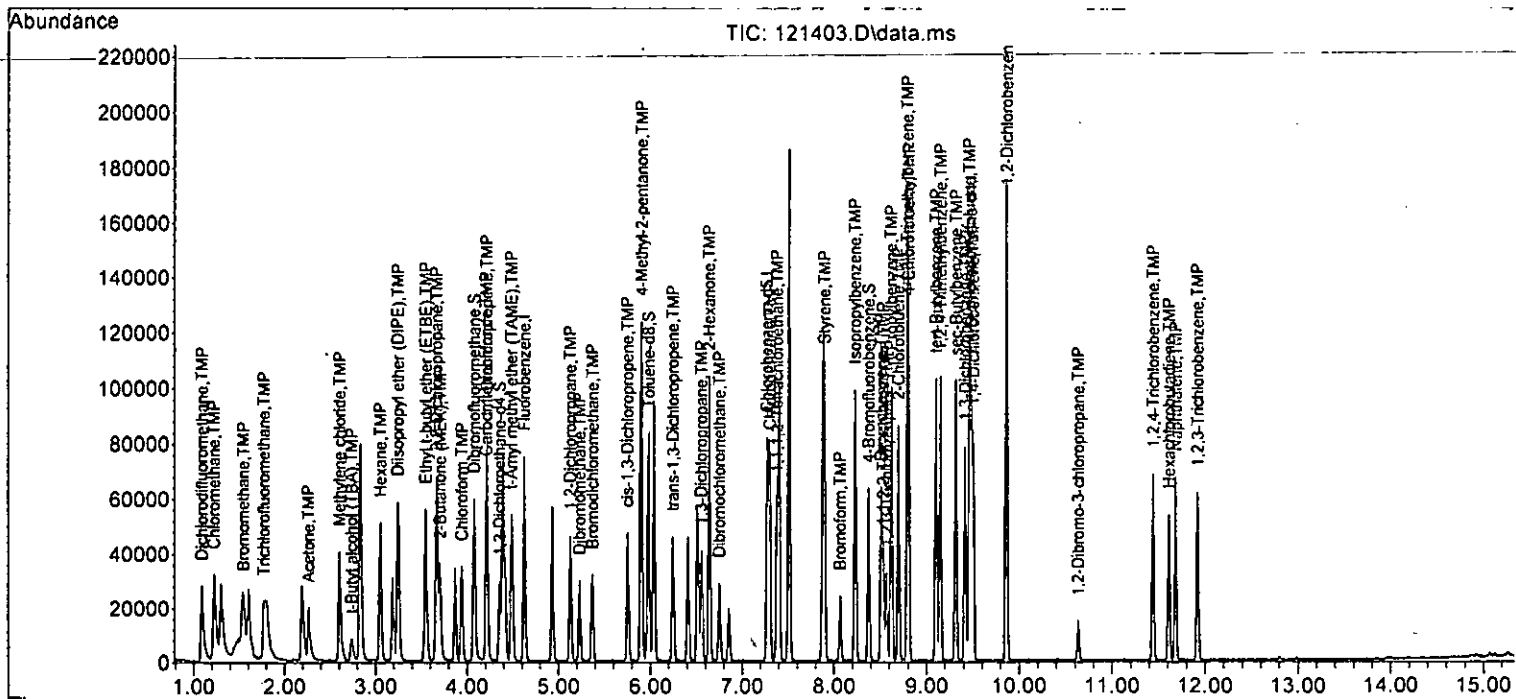
Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11821	47.207	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	20067	9.758	ppb	98
40] Toluene	6.03	92	31524	9.919	ppb	90
41) trans-1,3-Dichloropropene	6.25	75	17355	9.684	ppb	95
42] 1,1,2-Trichloroethane	6.40	83	9836	10.064	ppb	97
43) 2-Hexanone	6.64	43	54921	44.185	ppb	97
44) 1,3-Dichloropropane	6.55	76	17674	10.153	ppb	91
45] Tetrachloroethene	6.51	164	12431	9.803	ppb	98
46) Dibromochloromethane	6.75	129	13139	10.023	ppb	98
47] 1,2-Dibromoethane (EDB)	6.85	107	12000	9.892	ppb	99
48) Chlorobenzene	7.30	112	35190	10.264	ppb	93
49] Ethylbenzene	7.40	91	60314	10.100	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	12442	10.085	ppb	96
51] m,p-Xylene	7.51	106	45141	20.056	ppb #	70
52] o-Xylene	7.88	106	22159	10.051	ppb #	69
53) Styrene	7.90	104	35637	9.884	ppb	100
54) Isopropylbenzene	8.23	105	57654	9.947	ppb	96
55) Bromoform	8.07	173	9162	9.802	ppb	98
58) n-Propylbenzene	8.62	91	66745	10.274	ppb	99
59) Bromobenzene	8.51	156	15518	10.173	ppb	95
60) 1,3,5-Trimethylbenzene	8.79	105	49123	10.157	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.53	83	14824	10.732	ppb	99
62) 1,2,3-Trichloropropane	8.57	75	10963	9.451	ppb	94
63) 2-Chlorotoluene	8.70	91	38673	10.066	ppb	99
64) 4-Chlorotoluene	8.81	91	44824	9.926	ppb	96
65) tert-Butylbenzene	9.10	119	42615	10.054	ppb	98
66) 1,2,4-Trimethylbenzene	9.15	105	48954	9.986	ppb	96
67) sec-Butylbenzene	9.32	105	62054	10.101	ppb	99
68) p-Isopropyltoluene	9.46	119	54350	10.274	ppb	99
69) 1,3-Dichlorobenzene	9.42	146	27739	9.770	ppb	98
70) 1,4-Dichlorobenzene	9.50	146	28595	9.887	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	27195	9.955	ppb	97
72) 1,2-Dibromo-3-chloropr...	10.63	75	2799	9.125	ppb	82
73) 1,2,4-Trichlorobenzene	11.44	180	19030	9.810	ppb	96
74) Hexachlorobutadiene	11.61	225	10490	9.783	ppb	90
75) Naphthalene	11.68	128	44931	8.738	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	16993	9.495	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq On : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq On : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	102	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	0.00
3 S Dibromofluoromethane	0.264	0.276	-4.5	106	0.00
4 TMP Dichlorodifluoromethane	0.688	0.728	-5.8	110	0.02
5 TMP Chloromethane	0.883	0.871	1.4	103	0.00
6 TMP Vinyl chloride	0.732	0.762	-4.1	104	0.00
7 TMP Bromomethane	0.368	0.438	-19.0	134	0.02
8 TMP Chloroethane	0.336	0.361	-7.4	111	0.02
9 TMP Trichlorofluoromethane	0.870	0.858	1.4	103	-0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	0.00
11 TMP Acetone	0.037	0.031	16.2	91	0.00
12 TMP 1,1-Dichloroethene	0.240	0.243	-1.3	101	0.00
13 TMP Hexane	0.434	0.439	-1.2	102	0.00
14 TMP Methylene chloride	0.269	0.303	-12.6	107	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.042	8.7	94	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.756	-3.1	101	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.277	-1.8	102	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.946	-1.5	103	0.00
19 TMP 1,1-Dichloroethane	0.504	0.514	-2.0	101	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.299	-1.0	99	0.00
21 TMP 2,2-Dichloropropane	0.316	0.320	-1.3	103	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.290	-1.4	102	0.00
23 TMP Chloroform	0.477	0.478	-0.2	106	0.00
24 TMP 2-Butanone (MEK)	0.183	0.176	3.8	100	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.704	-1.4	100	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.404	2.2	100	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.450	-2.3	103	0.00
28 TMP 1,1-Dichloropropene	0.362	0.355	1.9	99	0.00
29 TMP Carbon tetrachloride	0.367	0.386	-5.2	105	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.057	5.0	91	0.00
31 TMP Benzene	0.999	1.006	-0.7	101	0.00
32 TMP Trichloroethene	0.316	0.303	4.1	97	0.00
33 TMP 1,2-Dichloropropane	0.296	0.289	2.4	100	0.00
34 TMP Bromodichloromethane	0.357	0.354	0.8	102	0.00
35 S Toluene-d8	0.960	0.958	0.2	103	0.00
36 TMP Dibromomethane	0.169	0.169	0.0	98	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.049	5.8	98	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.418	2.6	102	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
40 TMP Toluene	0.858	0.851	0.8	101	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.468	3.3	99	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.265	-0.4	101	0.00
43 TMP 2-Hexanone	0.335	0.296	11.6	88	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121403.D  
 Acq On : 14 Dec 2022 05:44 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-150N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 07:20:20 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev : 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.477	-1.5	98	0.00
45 TMP Tetrachloroethene	0.342	0.335	2.0	101	0.00
46 TMP Dibromochloromethane	0.354	0.355	-0.3	102	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.324	0.9	100	0.00
48 TMP Chlorobenzene	0.925	0.950	-2.7	103	0.00
49 TMP Ethylbenzene	1.611	1.627	-1.0	101	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.336	-0.9	97	0.00
51 TMP m,p-Xylene	0.607	0.609	-0.3	101	0.00
52 TMP o-Xylene	0.595	0.598	-0.5	100	0.00
53 TMP Styrene	0.973	0.962	1.1	98	0.00
54 TMP Isopropylbenzene	1.564	1.556	0.5	98	0.00
55 TMP Bromoform	0.252	0.247	2.0	98	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
57 S 4-Bromofluorobenzene	0.844	0.804	4.7	92	0.00
58 TMP n-Propylbenzene	3.281	3.371	-2.7	99	0.00
59 TMP Bromobenzene	0.770	0.784	-1.8	99	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.481	-1.6	101	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.749	-7.3	103	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.554	5.5	94	0.00
63 TMP 2-Chlorotoluene	1.941	1.953	-0.6	99	0.00
64 TMP 4-Chlorotoluene	2.281	2.264	0.7	99	0.00
65 TMP tert-Butylbenzene	2.141	2.152	-0.5	99	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.473	0.1	98	0.00
67 TMP sec-Butylbenzene	3.103	3.134	-1.0	100	0.00
68 TMP p-Isopropyltoluene	2.672	2.745	-2.7	99	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.401	2.3	97	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.444	1.2	97	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.374	0.4	97	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.141	9.0	92	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.961	1.9	97	0.00
74 TMP Hexachlorobutadiene	0.542	0.530	2.2	96	0.00
75 TMP Naphthalene	2.597	2.269	12.6	91	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.858	5.1	92	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121503.D  
 Acq On : 15 Dec 2022 06:03 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 07:57:09 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	47206	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	35931	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	20773	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	13234	10.625	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	106.30%	
30) 1,2-Dichloroethane-d4	4.36	102	2767	9.716	ppb	0.00	
Spiked Amount	10.000	Range	79 - 128	Recovery	=	97.20%	
35) Toluene-d8	5.98	98	45592	10.059	ppb	0.00	
Spiked Amount	10.000	Range	84 - 121	Recovery	=	100.60%	
57) 4-Bromofluorobenzene	8.38	95	16517	9.418	ppb	0.00	
Spiked Amount	10.000	Range	84 - 116	Recovery	=	94.20%	
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	27338	8.411	ppb		97
5) Chloromethane	1.23	50	33263	7.982	ppb		92
6] Vinyl chloride	1.30	62	28118	8.140	ppb		98
7) Bromomethane	1.54	94	18426	10.598	ppb		67
8] Chloroethane	1.60	64	12820	8.072	ppb		98
9) Trichlorofluoromethane	1.80	101	33256	8.099	ppb		100
10) 2-Propanol	0.00		0	N.D.			
11) Acetone	2.27	58	5832	33.185	ppb		92
12] 1,1-Dichloroethene	2.19	96	9333	8.225	ppb	#	80
13) Hexane	3.05	57	17878	8.732	ppb		98
14) Methylene chloride	2.61	84	11787	9.281	ppb		95
15) t-Butyl alcohol (TBA)	2.74	59	8802	40.375	ppb		95
16] Methyl t-butyl ether (...)	2.84	73	28708	8.295	ppb		95
17] trans-1,2-Dichloroethene	2.83	96	10619	8.263	ppb		97
18) Diisopropyl ether (DIPE)	3.25	45	35097	7.977	ppb		98
19] 1,1-Dichloroethane	3.18	63	19549	8.212	ppb		94
20) Ethyl t-butyl ether (E...)	3.55	87	11441	8.188	ppb		96
21) 2,2-Dichloropropane	3.67	77	13359	8.956	ppb		91
22] cis-1,2-Dichloroethene	3.67	96	11205	8.288	ppb		98
23) Chloroform	3.95	83	18202	8.084	ppb		98
24) 2-Butanone (MEK)	3.71	43	33826	39.181	ppb		98
25) t-Amyl methyl ether (T...)	4.49	73	27057	8.265	ppb		99
26] 1,2-Dichloroethane (EDC)	4.42	62	15645	8.018	ppb		99
27] 1,1,1-Trichloroethane	4.08	97	17064	8.212	ppb		98
28) 1,1-Dichloropropene	4.22	75	13961	8.165	ppb		96
29) Carbon tetrachloride	4.22	117	14551	8.397	ppb		97
31] Benzene	4.39	78	38705	8.208	ppb		98
32] Trichloroethene	4.93	95	11763	7.896	ppb		97
33) 1,2-Dichloropropane	5.13	63	10975	7.847	ppb		99
34) Bromodichloromethane	5.37	83	13577	8.047	ppb		86
36) Dibromomethane	5.23	93	7061	8.856	ppb		88

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121503.D  
 Acq Dn : 15 Dec 2022 06:03 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

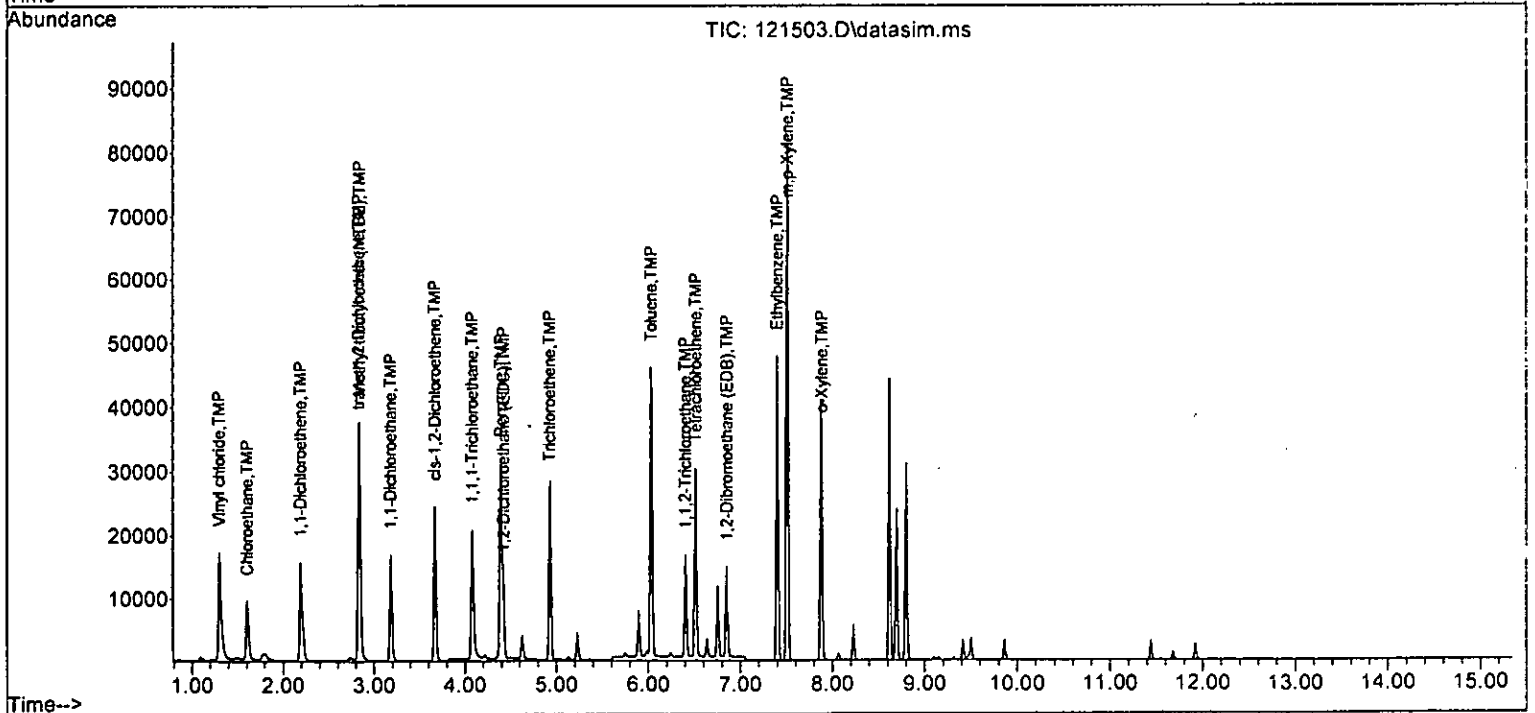
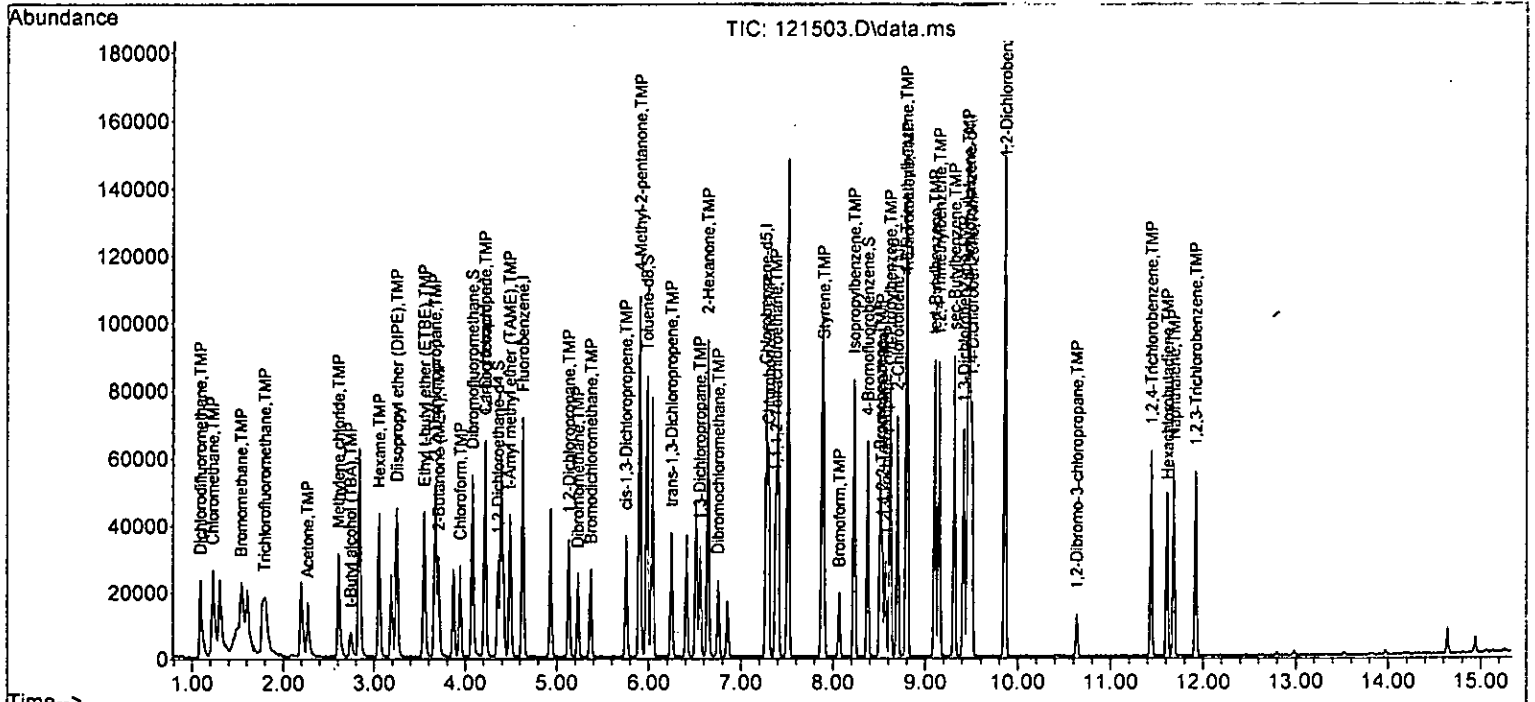
Quant Time: Dec 15 07:57:09 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	10075	40.899	ppb	98
38) cis-1,3-Dichloropropene	5.75	75	15855	7.837	ppb	93
40] Toluene	6.03	92	25327	8.219	ppb	90
41) trans-1,3-Dichloropropene	6.25	75	14357	8.262	ppb	97
42] 1,1,2-Trichloroethane	6.40	83	7999	8.442	ppb	96
43) 2-Hexanone	6.64	43	49998	41.488	ppb	97
44) 1,3-Dichloropropane	6.55	76	14526	8.607	ppb	99
45] Tetrachloroethene	6.51	164	10058	8.181	ppb	98
46) Dibromochloromethane	6.75	129	10840	8.529	ppb	95
47] 1,2-Dibromoethane (EDB)	6.85	107	9744	8.285	ppb	99
48) Chlorobenzene	7.30	112	28626	8.611	ppb	96
49] Ethylbenzene	7.40	91	49158	8.491	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	10240	8.561	ppb	99
51] m,p-Xylene	7.51	106	36782	16.855	ppb #	70
52] o-Xylene	7.88	106	18282	8.553	ppb	96
53) Styrene	7.90	104	29908	8.556	ppb	98
54) Isopropylbenzene	8.23	105	48419	8.616	ppb	95
55) Bromoform	8.07	173	7960	8.783	ppb	92
58) n-Propylbenzene	8.62	91	56528	8.293	ppb	97
59) Bromobenzene	8.51	156	13227	8.264	ppb	97
60) 1,3,5-Trimethylbenzene	8.79	105	41145	8.109	ppb	95
61) 1,1,2,2-Tetrachloroethane	8.53	83	12738	8.789	ppb	95
62) 1,2,3-Trichloropropane	8.57	75	9632	7.915	ppb	94
63) 2-Chlorotoluene	8.70	91	33212	8.239	ppb	98
64) 4-Chlorotoluene	8.81	91	38362	8.097	ppb	97
65) tert-Butylbenzene	9.10	119	35772	8.044	ppb	97
66) 1,2,4-Trimethylbenzene	9.15	105	41813	8.129	ppb	98
67) sec-Butylbenzene	9.31	105	52652	8.169	ppb	99
68) p-Isopropyltoluene	9.46	119	46364	8.353	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	24496	8.223	ppb	96
70) 1,4-Dichlorobenzene	9.50	146	24951	8.222	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	24232	8.454	ppb	92
72) 1,2-Dibromo-3-chloropr...	10.63	75	2552	7.929	ppb	97
73) 1,2,4-Trichlorobenzene	11.44	180	16823	8.266	ppb	94
74) Hexachlorobutadiene	11.61	225	9403	8.358	ppb	97
75) Naphthalene	11.68	128	38913	7.213	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	15336	8.167	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121503.D  
 Acq On : 15 Dec 2022 06:03 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 07:57:09 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121503.D  
 Acq On : 15 Dec 2022 06:03 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 07:57:09 2022  
 Quant Method : Y:\Methods\Inst11\V8121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	100	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.625	-6.3	106	0.00
4 TMP Dichlorodifluoromethane	10.000	8.411	15.9	86	0.02
5 TMP Chloromethane	10.000	7.982	20.2#	82	0.00
6 TMP Vinyl chloride	10.000	8.140	18.6	80	0.00
7 TMP Bromomethane	10.000	10.598	-6.0	118	0.00
8 TMP Chloroethane	10.000	8.072	19.3	82	0.02
9 TMP Trichlorofluoromethane	10.000	8.099	19.0	83	0.00
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.41#
11 TMP Acetone	50.000	33.185	33.6#	71	0.00
12 TMP 1,1-Dichloroethene	10.000	8.225	17.8	81	0.00
13 TMP Hexane	10.000	8.732	12.7	87	0.00
14 TMP Methylene chloride	10.000	9.281	7.2	87	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	40.375	19.3	82	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	8.295	17.1	80	0.00
17 TMP trans-1,2-Dichloroethene	10.000	8.263	17.4	82	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	7.977	20.2#	80	0.00
19 TMP 1,1-Dichloroethane	10.000	8.212	17.9	80	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	8.188	18.1	79	0.00
21 TMP 2,2-Dichloropropane	10.000	8.956	10.4	90	0.00
22 TMP cis-1,2-Dichloroethene	10.000	8.288	17.1	82	0.00
23 TMP Chloroform	10.000	8.084	19.2	84	0.00
24 TMP 2-Butanone (MEK)	50.000	39.181	21.6#	80	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	8.265	17.3	80	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	8.018	19.8	81	0.00
27 TMP 1,1,1-Trichloroethane	10.000	8.212	17.9	81	0.00
28 TMP 1,1-Dichloropropene	10.000	8.165	18.4	81	0.00
29 TMP Carbon tetrachloride	10.000	8.397	16.0	82	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.716	2.8	92	0.00
31 TMP Benzene	10.000	8.208	17.9	81	0.00
32 TMP Trichloroethene	10.000	7.896	21.0#	78	0.00
33 TMP 1,2-Dichloropropane	10.000	7.847	21.5#	79	0.00
34 TMP Bromodichloromethane	10.000	8.047	19.5	82	0.00
35 S Toluene-d8	10.000	10.059	-0.6	103	0.00
36 TMP Dibromomethane	10.000	8.856	11.4	85	0.00
37 TMP 4-Methyl-2-pentanone	50.000	40.899	18.2	84	0.00
38 TMP cis-1,3-Dichloropropene	10.000	7.837	21.6#	80	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
40 TMP Toluene	10.000	8.219	17.8	81	0.00
41 TMP trans-1,3-Dichloropropene	10.000	8.262	17.4	82	0.00
42 TMP 1,1,2-Trichloroethane	10.000	8.442	15.6	82	0.00
43 TMP 2-Hexanone	50.000	41.488	17.0	80	0.00



Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121503.D  
 Acq On : 15 Dec 2022 06:03 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 07:57:09 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	8.607	13.9	80	0.00
45 TMP Tetrachloroethene	10.000	8.181	18.2	82	0.00
46 TMP Dibromochloromethane	10.000	8.529	14.7	84	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	8.285	17.1	81	0.00
48 TMP Chlorobenzene	10.000	8.611	13.9	84	0.00
49 TMP Ethylbenzene	10.000	8.491	15.1	82	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	8.561	14.4	80	0.00
51 TMP m,p-Xylene	20.000	16.855	15.7	82	0.00
52 TMP o-Xylene	10.000	8.553	14.5	82	0.00
53 TMP Styrene	10.000	8.556	14.4	82	0.00
54 TMP Isopropylbenzene	10.000	8.616	13.8	83	0.00
55 TMP Bromoform	10.000	8.783	12.2	86	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	103	0.00
57 S 4-Bromofluorobenzene	10.000	9.418	5.8	95	0.00
58 TMP n-Propylbenzene	10.000	8.293	17.1	84	0.00
59 TMP Bromobenzene	10.000	8.264	17.4	84	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	8.109	18.9	85	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	8.789	12.1	89	0.00
62 TMP 1,2,3-Trichloropropane	10.000	7.915	20.8#	82	0.00
63 TMP 2-Chlorotoluene	10.000	8.239	17.6	85	0.00
64 TMP 4-Chlorotoluene	10.000	8.097	19.0	84	0.00
65 TMP tert-Butylbenzene	10.000	8.044	19.6	83	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	8.129	18.7	83	0.00
67 TMP sec-Butylbenzene	10.000	8.169	18.3	85	0.00
68 TMP p-Isopropyltoluene	10.000	8.353	16.5	85	0.00
69 TMP 1,3-Dichlorobenzene	10.000	8.223	17.8	85	0.00
70 TMP 1,4-Dichlorobenzene	10.000	8.222	17.8	85	0.00
71 TMP 1,2-Dichlorobenzene	10.000	8.454	15.5	86	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	7.929	20.7#	84	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	8.266	17.3	86	0.00
74 TMP Hexachlorobutadiene	10.000	8.358	16.4	86	0.00
75 TMP Naphthalene	10.000	7.213	27.9#	78	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	8.167	18.3	83	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121503.D  
 Acq On : 15 Dec 2022 06:03 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 07:57:09 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	100	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.280	-6.1	106	0.00
4 TMP Dichlorodifluoromethane	0.688	0.579	15.8	86	0.02
5 TMP Chloromethane	0.883	0.705	20.2#	82	0.00
6 TMP Vinyl chloride	0.732	0.596	18.6	80	0.00
7 TMP Bromomethane	0.368	0.390	-6.0	118	0.00
8 TMP Chloroethane	0.336	0.272	19.0	82	0.02
9 TMP Trichlorofluoromethane	0.870	0.704	19.1	83	0.00
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.41#
11 TMP Acetone	0.037	0.025	32.4#	71	0.00
12 TMP 1,1-Dichloroethene	0.240	0.198	17.5	81	0.00
13 TMP Hexane	0.434	0.379	12.7	87	0.00
14 TMP Methylene chloride	0.269	0.250	7.1	87	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.037	19.6	82	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.608	17.1	80	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.225	17.3	82	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.743	20.3#	80	0.00
19 TMP 1,1-Dichloroethane	0.504	0.414	17.9	80	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.242	18.2	79	0.00
21 TMP 2,2-Dichloropropane	0.316	0.283	10.4	90	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.237	17.1	82	0.00
23 TMP Chloroform	0.477	0.386	19.1	84	0.00
24 TMP 2-Butanone (MEK)	0.183	0.143	21.9#	80	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.573	17.4	80	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.331	19.9	81	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.361	18.0	81	0.00
28 TMP 1,1-Dichloropropene	0.362	0.296	18.2	81	0.00
29 TMP Carbon tetrachloride	0.367	0.308	16.1	82	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.059	1.7	92	0.00
31 TMP Benzene	0.999	0.820	17.9	81	0.00
32 TMP Trichloroethene	0.316	0.249	21.2#	78	0.00
33 TMP 1,2-Dichloropropane	0.296	0.232	21.6#	79	0.00
34 TMP Bromodichloromethane	0.357	0.288	19.3	82	0.00
35 S Toluene-d8	0.960	0.966	-0.6	103	0.00
36 TMP Dibromomethane	0.169	0.150	11.2	85	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.043	17.3	84	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.336	21.7#	80	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
40 TMP Toluene	0.858	0.705	17.8	81	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.400	17.4	82	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.223	15.5	82	0.00
43 TMP 2-Hexanone	0.335	0.278	17.0	80	0.00

Evaluate Continuing Calibration Report

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121503.D  
 Acq On : 15 Dec 2022 06:03 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 67-192N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 07:57:09 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.404	14.0	80	0.00
45 TMP Tetrachloroethene	0.342	0.280	18.1	82	0.00
46 TMP Dibromochloromethane	0.354	0.302	14.7	84	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.271	17.1	81	0.00
48 TMP Chlorobenzene	0.925	0.797	13.8	84	0.00
49 TMP Ethylbenzene	1.611	1.368	15.1	82	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.285	14.4	80	0.00
51 TMP m,p-Xylene	0.607	0.512	15.7	82	0.00
52 TMP o-Xylene	0.595	0.509	14.5	82	0.00
53 TMP Styrene	0.973	0.832	14.5	82	0.00
54 TMP Isopropylbenzene	1.564	1.348	13.8	83	0.00
55 TMP Bromoform	0.252	0.222	11.9	86	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
57 S 4-Bromofluorobenzene	0.844	0.795	5.8	95	0.00
58 TMP n-Propylbenzene	3.281	2.721	17.1	84	0.00
59 TMP Bromobenzene	0.770	0.637	17.3	84	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	1.981	18.9	85	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.613	12.2	89	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.464#	20.8#	82	0.00
63 TMP 2-Chlorotoluene	1.941	1.599	17.6	85	0.00
64 TMP 4-Chlorotoluene	2.281	1.847	19.0	84	0.00
65 TMP tert-Butylbenzene	2.141	1.722	19.6	83	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.013	18.7	83	0.00
67 TMP sec-Butylbenzene	3.103	2.535	18.3	85	0.00
68 TMP p-Isopropyltoluene	2.672	2.232	16.5	85	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.179	17.8	85	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.201	17.8	85	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.167	15.4	86	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.123	20.6#	84	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	0.810	17.3	86	0.00
74 TMP Hexachlorobutadiene	0.542	0.453	16.4	86	0.00
75 TMP Naphthalene	2.597	1.873	27.9#	78	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.738	18.4	83	0.00

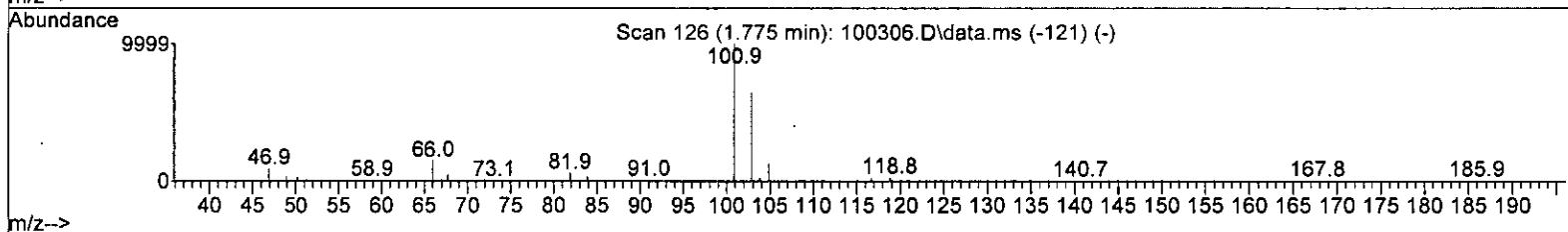
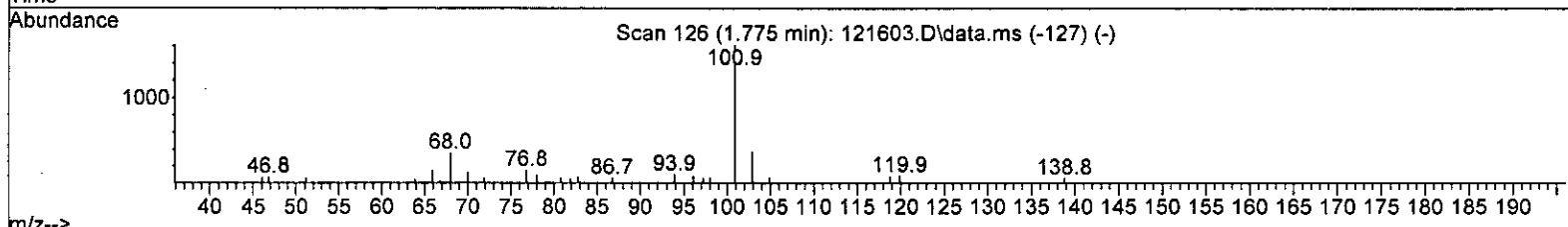
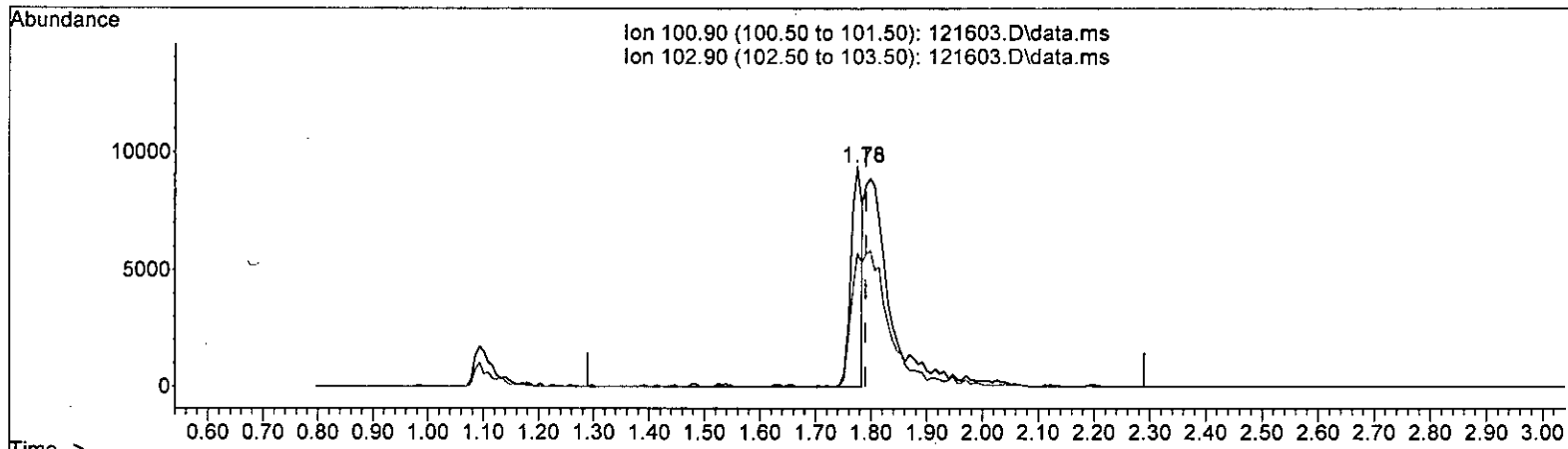
(#) = Out of Range

SPCC's out = 2 CCC's out = 0

Quantitation Report (Qedit)

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 09:29 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-39N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:47:05 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121603.D\data.ms

(9) Trichlorofluoromethane (TMP)

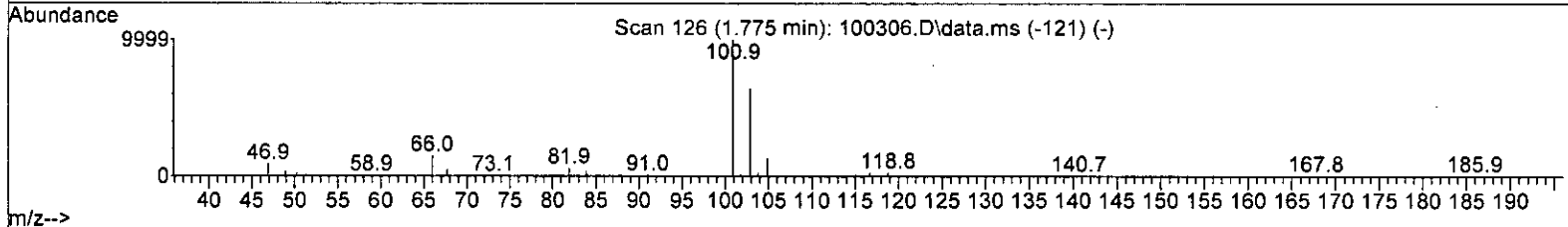
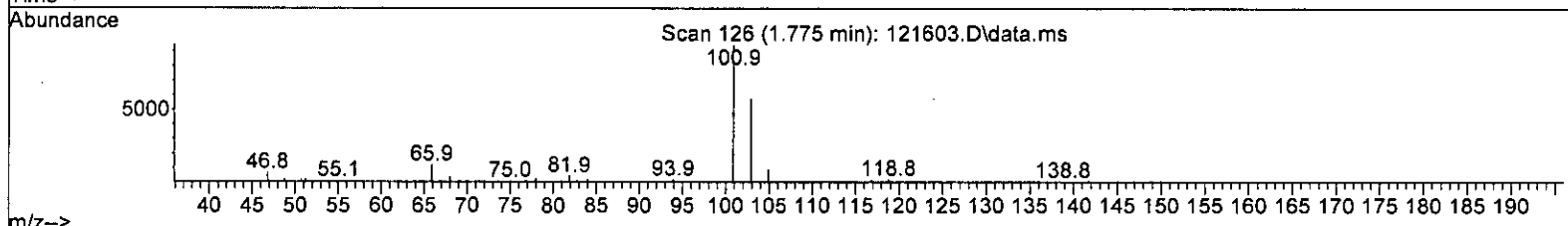
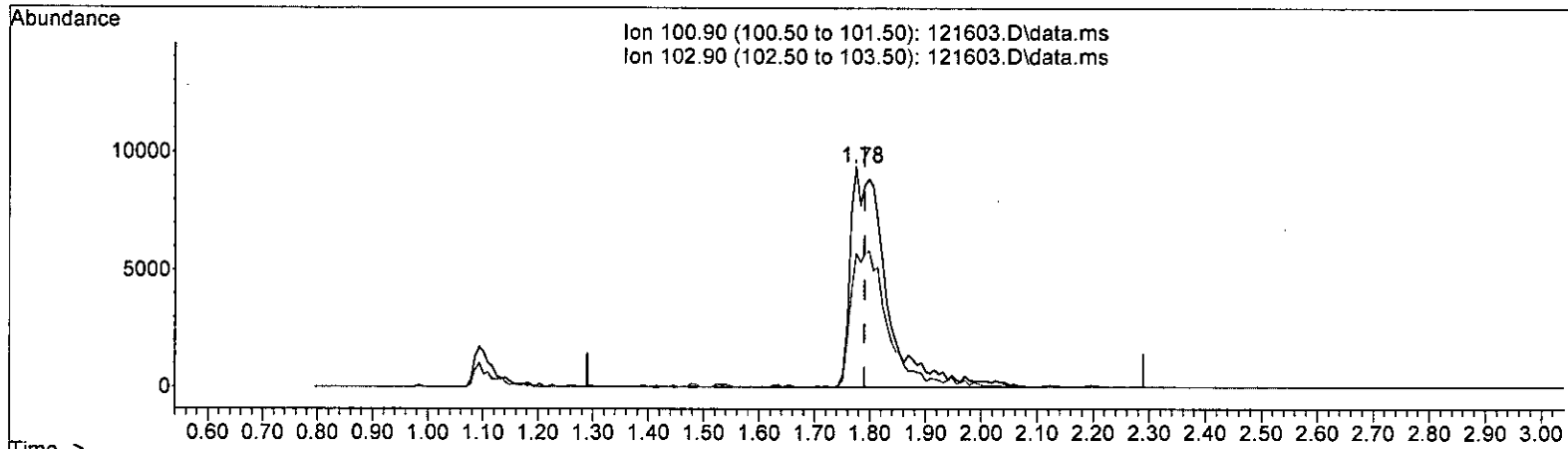
1.775min (-0.015) 3.204 ppb

response	13300
Ion	Exp% Act%
100.90	100.00 100.00
102.90	62.70 60.83
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 09:29 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-39N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:47:05 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121603.D\data.ms

(9) Trichlorofluoromethane (TMP)

1.775min (-0.015) 10.542 ppb m

response	43764
Ion	Exp% Act%
100.90	100.00 100.00
102.90	62.70 60.83
0.00	0.00 0.00
0.00	0.00 0.00

Evaluate Continuing Calibration Report

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 09:29 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-39N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:47:05 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Fluorobenzene	10.000	10.000	0.0	101	0.00
2 TMP Ethanol	-1.000	0.000	0.0	0	-1.86#
3 S Dibromofluoromethane	10.000	10.123	-1.2	102	0.00
4 TMP Dichlorodifluoromethane	10.000	10.590	-5.9	109	0.02
5 TMP Chloromethane	10.000	9.631	3.7	100	0.02
6 TMP Vinyl chloride	10.000	10.007	-0.1	99	0.00
7 TMP Bromomethane	10.000	10.438	-4.4	117	0.02
8 TMP Chloroethane	10.000	9.825	1.8	101	0.02
9 TMP Trichlorofluoromethane	10.000	10.542	-5.4	110	-0.01
10 TMP 2-Propanol	-1.000	0.000	0.0	0	-2.41#
11 TMP Acetone	50.000	42.394	15.2	92	0.00
12 TMP 1,1-Dichloroethene	10.000	10.571	-5.7	106	0.02
13 TMP Hexane	10.000	10.725	-7.2	108	0.00
14 TMP Methylene chloride	10.000	12.363	-23.6#	117	0.00
15 TMP t-Butyl alcohol (TBA)	50.000	48.391	3.2	99	0.00
16 TMP Methyl t-butyl ether (MTBE)	10.000	10.033	-0.3	98	0.00
17 TMP trans-1,2-Dichloroethene	10.000	10.120	-1.2	101	0.00
18 TMP Diisopropyl ether (DIPE)	10.000	9.847	1.5	100	0.00
19 TMP 1,1-Dichloroethane	10.000	10.232	-2.3	101	0.00
20 TMP Ethyl t-butyl ether (ETBE)	10.000	9.918	0.8	97	0.00
21 TMP 2,2-Dichloropropane	10.000	9.885	1.2	100	0.00
22 TMP cis-1,2-Dichloroethene	10.000	10.299	-3.0	103	0.00
23 TMP Chloroform	10.000	10.184	-1.8	107	0.00
24 TMP 2-Butanone (MEK)	50.000	49.696	0.6	103	0.00
25 TMP t-Amyl methyl ether (TAME)	10.000	9.753	2.5	96	0.00
26 TMP 1,2-Dichloroethane (EDC)	10.000	9.729	2.7	99	0.00
27 TMP 1,1,1-Trichloroethane	10.000	10.017	-0.2	100	0.00
28 TMP 1,1-Dichloropropene	10.000	9.996	0.0	100	0.00
29 TMP Carbon tetrachloride	10.000	10.695	-7.0	106	0.00
30 S 1,2-Dichloroethane-d4	10.000	9.586	4.1	91	0.00
31 TMP Benzene	10.000	10.142	-1.4	102	0.00
32 TMP Trichloroethene	10.000	9.609	3.9	96	0.00
33 TMP 1,2-Dichloropropane	10.000	9.594	4.1	98	0.00
34 TMP Bromodichloromethane	10.000	9.520	4.8	98	0.00
35 S Toluene-d8	10.000	9.658	3.4	100	0.00
36 TMP Dibromomethane	10.000	10.075	-0.7	98	0.00
37 TMP 4-Methyl-2-pentanone	50.000	51.631	-3.3	107	0.00
38 TMP cis-1,3-Dichloropropene	10.000	9.754	2.5	101	0.00
39 I Chlorobenzene-d5	10.000	10.000	0.0	101	0.00
40 TMP Toluene	10.000	9.947	0.5	100	0.00
41 TMP trans-1,3-Dichloropropene	10.000	10.264	-2.6	104	0.00
42 TMP 1,1,2-Trichloroethane	10.000	9.987	0.1	99	0.00
43 TMP 2-Hexanone	50.000	49.810	0.4	98	0.00

Evaluate Continuing Calibration Report

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 09:29 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-39N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:47:05 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	10.000	10.045	-0.4	96	0.00
45 TMP Tetrachloroethene	10.000	9.952	0.5	102	0.00
46 TMP Dibromochloromethane	10.000	10.029	-0.3	101	0.00
47 TMP 1,2-Dibromoethane (EDB)	10.000	9.900	1.0	99	0.00
48 TMP Chlorobenzene	10.000	10.095	-1.0	100	0.00
49 TMP Ethylbenzene	10.000	10.077	-0.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	10.000	10.563	-5.6	101	0.00
51 TMP m,p-Xylene	20.000	20.168	-0.8	100	0.00
52 TMP o-Xylene	10.000	10.301	-3.0	101	0.00
53 TMP Styrene	10.000	9.894	1.1	97	0.00
54 TMP Isopropylbenzene	10.000	9.853	1.5	96	0.00
55 TMP Bromoform	10.000	9.948	0.5	99	0.00
56 I 1,4-Dichlorobenzene-d4	10.000	10.000	0.0	98	0.00
57 S 4-Bromofluorobenzene	10.000	9.806	1.9	95	0.00
58 TMP n-Propylbenzene	10.000	10.104	-1.0	98	0.00
59 TMP Bromobenzene	10.000	10.481	-4.8	102	0.00
60 TMP 1,3,5-Trimethylbenzene	10.000	10.187	-1.9	102	0.00
61 TMP 1,1,2,2-Tetrachloroethane	10.000	10.677	-6.8	103	0.00
62 TMP 1,2,3-Trichloropropane	10.000	9.942	0.6	99	0.00
63 TMP 2-Chlorotoluene	10.000	10.003	-0.0	99	0.00
64 TMP 4-Chlorotoluene	10.000	9.995	0.1	100	0.00
65 TMP tert-Butylbenzene	10.000	10.175	-1.8	100	0.00
66 TMP 1,2,4-Trimethylbenzene	10.000	10.187	-1.9	100	0.00
67 TMP sec-Butylbenzene	10.000	10.187	-1.9	101	0.00
68 TMP p-Isopropyltoluene	10.000	10.440	-4.4	101	0.00
69 TMP 1,3-Dichlorobenzene	10.000	10.260	-2.6	102	0.00
70 TMP 1,4-Dichlorobenzene	10.000	9.729	2.7	96	0.00
71 TMP 1,2-Dichlorobenzene	10.000	10.176	-1.8	99	0.00
72 TMP 1,2-Dibromo-3-chloropropane	10.000	9.677	3.2	98	0.00
73 TMP 1,2,4-Trichlorobenzene	10.000	10.561	-5.6	105	0.00
74 TMP Hexachlorobutadiene	10.000	10.451	-4.5	103	0.00
75 TMP Naphthalene	10.000	8.730	12.7	91	0.00
76 TMP 1,2,3-Trichlorobenzene	10.000	9.995	0.1	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 09:29 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-39N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:47:05 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	101	0.00
2 TMP Ethanol	0.000	0.000#	0.0	0#	-1.86#
3 S Dibromofluoromethane	0.264	0.267	-1.1	102	0.00
4 TMP Dichlorodifluoromethane	0.688	0.729	-6.0	109	0.02
5 TMP Chloromethane	0.883	0.850	3.7	100	0.02
6 TMP Vinyl chloride	0.732	0.732	0.0	99	0.00
7 TMP Bromomethane	0.368	0.384	-4.3	117	0.02
8 TMP Chloroethane	0.336	0.331	1.5	101	0.02
9 TMP Trichlorofluoromethane	0.870	0.917	-5.4	110	-0.01
10 TMP 2-Propanol	0.000	0.000	0.0	0#	-2.41#
11 TMP Acetone	0.037	0.032	13.5	92	0.00
12 TMP 1,1-Dichloroethene	0.240	0.254	-5.8	106	0.02
13 TMP Hexane	0.434	0.465	-7.1	108	0.00
14 TMP Methylene chloride	0.269	0.333	-23.8#	117	0.00
15 TMP t-Butyl alcohol (TBA)	0.046	0.045	2.2	99	0.00
16 TMP Methyl t-butyl ether (MTBE)	0.733	0.736	-0.4	98	0.00
17 TMP trans-1,2-Dichloroethene	0.272	0.276	-1.5	101	0.00
18 TMP Diisopropyl ether (DIPE)	0.932	0.918	1.5	100	0.00
19 TMP 1,1-Dichloroethane	0.504	0.516	-2.4	101	0.00
20 TMP Ethyl t-butyl ether (ETBE)	0.296	0.294	0.7	97	0.00
21 TMP 2,2-Dichloropropane	0.316	0.312	1.3	100	0.00
22 TMP cis-1,2-Dichloroethene	0.286	0.295	-3.1	103	0.00
23 TMP Chloroform	0.477	0.486	-1.9	107	0.00
24 TMP 2-Butanone (MEK)	0.183	0.182	0.5	103	0.00
25 TMP t-Amyl methyl ether (TAME)	0.694	0.676	2.6	96	0.00
26 TMP 1,2-Dichloroethane (EDC)	0.413	0.402	2.7	99	0.00
27 TMP 1,1,1-Trichloroethane	0.440	0.441	-0.2	100	0.00
28 TMP 1,1-Dichloropropene	0.362	0.362	0.0	100	0.00
29 TMP Carbon tetrachloride	0.367	0.393	-7.1	106	0.00
30 S 1,2-Dichloroethane-d4	0.060	0.058	3.3	91	0.00
31 TMP Benzene	0.999	1.013	-1.4	102	0.00
32 TMP Trichloroethene	0.316	0.303	4.1	96	0.00
33 TMP 1,2-Dichloropropane	0.296	0.284	4.1	98	0.00
34 TMP Bromodichloromethane	0.357	0.340	4.8	98	0.00
35 S Toluene-d8	0.960	0.927	3.4	100	0.00
36 TMP Dibromomethane	0.169	0.170	-0.6	98	0.00
37 TMP 4-Methyl-2-pentanone	0.052	0.054	-3.8	107	0.00
38 TMP cis-1,3-Dichloropropene	0.429	0.418	2.6	101	0.00
39 I Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
40 TMP Toluene	0.858	0.853	0.6	100	0.00
41 TMP trans-1,3-Dichloropropene	0.484	0.496	-2.5	104	0.00
42 TMP 1,1,2-Trichloroethane	0.264	0.263	0.4	99	0.00
43 TMP 2-Hexanone	0.335	0.334	0.3	98	0.00



Evaluate Continuing Calibration Report

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 09:29 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-39N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:47:05 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.15min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP 1,3-Dichloropropane	0.470	0.472	-0.4	96	0.00
45 TMP Tetrachloroethene	0.342	0.341	0.3	102	0.00
46 TMP Dibromochloromethane	0.354	0.355	-0.3	101	0.00
47 TMP 1,2-Dibromoethane (EDB)	0.327	0.324	0.9	99	0.00
48 TMP Chlorobenzene	0.925	0.934	-1.0	100	0.00
49 TMP Ethylbenzene	1.611	1.624	-0.8	100	0.00
50 TMP 1,1,1,2-Tetrachloroethane	0.333	0.352	-5.7	101	0.00
51 TMP m,p-Xylene	0.607	0.612	-0.8	100	0.00
52 TMP o-Xylene	0.595	0.613	-3.0	101	0.00
53 TMP Styrene	0.973	0.963	1.0	97	0.00
54 TMP Isopropylbenzene	1.564	1.541	1.5	96	0.00
55 TMP Bromoform	0.252	0.251	0.4	99	0.00
56 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
57 S 4-Bromofluorobenzene	0.844	0.828	1.9	95	0.00
58 TMP n-Propylbenzene	3.281	3.315	-1.0	98	0.00
59 TMP Bromobenzene	0.770	0.808	-4.9	102	0.00
60 TMP 1,3,5-Trimethylbenzene	2.443	2.488	-1.8	102	0.00
61 TMP 1,1,2,2-Tetrachloroethane	0.698	0.745	-6.7	103	0.00
62 TMP 1,2,3-Trichloropropane	0.586	0.582	0.7	99	0.00
63 TMP 2-Chlorotoluene	1.941	1.941	0.0	99	0.00
64 TMP 4-Chlorotoluene	2.281	2.280	0.0	100	0.00
65 TMP tert-Butylbenzene	2.141	2.178	-1.7	100	0.00
66 TMP 1,2,4-Trimethylbenzene	2.476	2.523	-1.9	100	0.00
67 TMP sec-Butylbenzene	3.103	3.161	-1.9	101	0.00
68 TMP p-Isopropyltoluene	2.672	2.789	-4.4	101	0.00
69 TMP 1,3-Dichlorobenzene	1.434	1.471	-2.6	102	0.00
70 TMP 1,4-Dichlorobenzene	1.461	1.421	2.7	96	0.00
71 TMP 1,2-Dichlorobenzene	1.380	1.404	-1.7	99	0.00
72 TMP 1,2-Dibromo-3-chloropropane	0.155	0.150	3.2	98	0.00
73 TMP 1,2,4-Trichlorobenzene	0.980	1.035	-5.6	105	0.00
74 TMP Hexachlorobutadiene	0.542	0.566	-4.4	103	0.00
75 TMP Naphthalene	2.597	2.267	12.7	91	0.00
76 TMP 1,2,3-Trichlorobenzene	0.904	0.903	0.1	97	0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 09:29 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-39N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:47:05 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	47723	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	36681	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	19869	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	12747	10.123	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	101.20%		
30) 1,2-Dichloroethane-d4	4.36	102	2760	9.586	ppb	0.00	
Spiked Amount	10.000	Range 79 - 128	Recovery	=	95.90%		
35) Toluene-d8	5.98	98	44251	9.658	ppb	0.00	
Spiked Amount	10.000	Range 84 - 121	Recovery	=	96.60%		
57) 4-Bromofluorobenzene	8.38	95	16449	9.806	ppb	0.00	
Spiked Amount	10.000	Range 84 - 116	Recovery	=	98.10%		
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	1.09	85	34796	10.590	ppb	95	
5) Chloromethane	1.23	50	40574	9.631	ppb	99	
6] Vinyl chloride	1.30	62	34945	10.007	ppb	99	
7) Bromomethane	1.55	94	18347	10.438	ppb	84	
8] Chloroethane	1.61	64	15775	9.825	ppb	100	
9) Trichlorofluoromethane	1.78	101	43764m	10.542	ppb		
10) 2-Propanol	0.00		0	N.D.			
11) Acetone	2.27	58	7532	42.394	ppb	93	
12] 1,1-Dichloroethene	2.20	96	12126	10.571	ppb	98	
13) Hexane	3.06	57	22201	10.725	ppb	99	
14) Methylene chloride	2.61	84	15873	12.363	ppb	97	
15) t-Butyl alcohol (TBA)	2.74	59	10665	48.391	ppb	96	
16] Methyl t-butyl ether (...)	2.84	73	35104	10.033	ppb	94	
17] trans-1,2-Dichloroethene	2.83	96	13149	10.120	ppb	98	
18) Diisopropyl ether (DIPE)	3.25	45	43798	9.847	ppb	95	
19] 1,1-Dichloroethane	3.18	63	24624	10.232	ppb	93	
20) Ethyl t-butyl ether (E...)	3.55	87	14010	9.918	ppb	96	
21) 2,2-Dichloropropane	3.67	77	14906	9.885	ppb	96	
22] cis-1,2-Dichloroethene	3.67	96	14076	10.299	ppb	99	
23) Chloroform	3.95	83	23181	10.184	ppb	97	
24) 2-Butanone (MEK)	3.71	43	43374	49.696	ppb	98	
25) t-Amyl methyl ether (T...)	4.50	73	32281	9.753	ppb	99	
26] 1,2-Dichloroethane (EDC)	4.42	62	19190	9.729	ppb	99	
27] 1,1,1-Trichloroethane	4.08	97	21043	10.017	ppb	99	
28) 1,1-Dichloropropene	4.22	75	17280	9.996	ppb	97	
29) Carbon tetrachloride	4.22	117	18737	10.695	ppb	98	
31] Benzene	4.39	78	48353	10.142	ppb	99	
32] Trichloroethene	4.93	95	14471	9.609	ppb	98	
33) 1,2-Dichloropropane	5.13	63	13566	9.594	ppb	100	
34) Bromodichloromethane	5.37	83	16239	9.520	ppb	86	
36) Dibromomethane	5.23	93	8121	10.075	ppb	99	

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 09:29 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-39N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

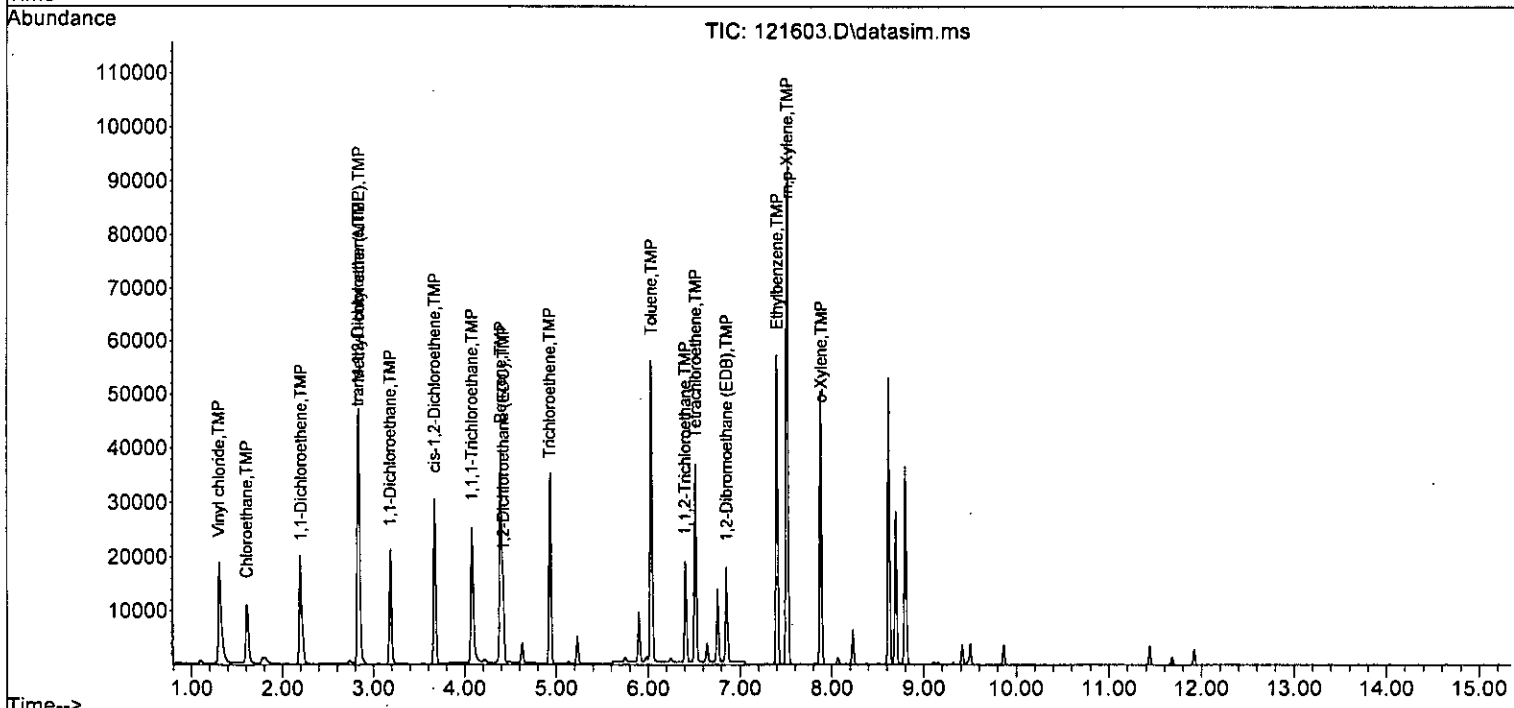
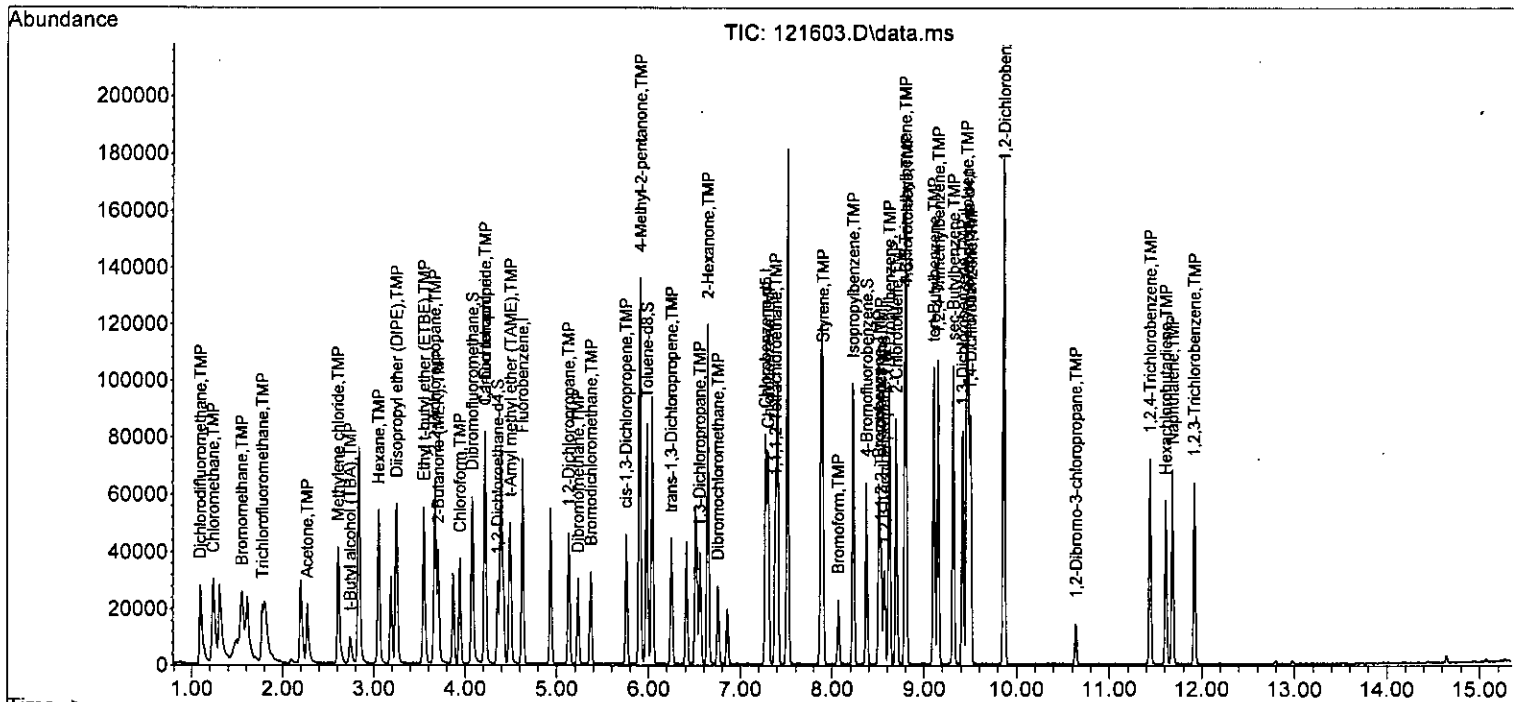
Quant Time: Dec 16 12:47:05 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	12858	51.631	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	19949	9.754	ppb	98
40] Toluene	6.03	92	31289	9.947	ppb	89
41) trans-1,3-Dichloropropene	6.25	75	18207	10.264	ppb	96
42] 1,1,2-Trichloroethane	6.40	83	9661	9.987	ppb	99
43) 2-Hexanone	6.64	43	61280	49.810	ppb	97
44) 1,3-Dichloropropane	6.55	76	17307	10.045	ppb	92
45] Tetrachloroethene	6.51	164	12491	9.952	ppb	99
46) Dibromochloromethane	6.75	129	13012	10.029	ppb	91
47] 1,2-Dibromoethane (EDB)	6.85	107	11887	9.900	ppb	100
48) Chlorobenzene	7.30	112	34257	10.095	ppb	97
49] Ethylbenzene	7.40	91	59561	10.077	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	12899	10.563	ppb	95
51] m,p-Xylene	7.51	106	44929	20.168	ppb #	71
52] o-Xylene	7.88	106	22479	10.301	ppb	97
53) Styrene	7.90	104	35309	9.894	ppb	95
54) Isopropylbenzene	8.23	105	56522	9.853	ppb	98
55) Bromoform	8.07	173	9204	9.948	ppb	91
58) n-Propylbenzene	8.62	91	65872	10.104	ppb	96
59) Bromobenzene	8.51	156	16045	10.481	ppb	90
60) 1,3,5-Trimethylbenzene	8.79	105	49440	10.187	ppb	97
61) 1,1,2,2-Tetrachloroethane	8.53	83	14801	10.677	ppb	92
62) 1,2,3-Trichloropropane	8.57	75	11573	9.942	ppb	95
63) 2-Chlorotoluene	8.70	91	38568	10.003	ppb	99
64) 4-Chlorotoluene	8.81	91	45296	9.995	ppb	99
65) tert-Butylbenzene	9.10	119	43278	10.175	ppb	98
66) 1,2,4-Trimethylbenzene	9.15	105	50120	10.187	ppb	97
67) sec-Butylbenzene	9.31	105	62806	10.187	ppb	100
68) p-Isopropyltoluene	9.46	119	55422	10.440	ppb	99
69) 1,3-Dichlorobenzene	9.42	146	29233	10.260	ppb	97
70) 1,4-Dichlorobenzene	9.50	146	28238	9.729	ppb	98
71) 1,2-Dichlorobenzene	9.86	146	27899	10.176	ppb	96
72) 1,2-Dibromo-3-chloropr...	10.64	75	2979	9.677	ppb	86
73) 1,2,4-Trichlorobenzene	11.44	180	20560	10.561	ppb	98
74) Hexachlorobutadiene	11.61	225	11246	10.451	ppb	88
75) Naphthalene	11.68	128	45044	8.730	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	17951	9.995	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 09:29 am  
 Operator : LM  
 Sample : 10 ppb 8260 CCV 68-39N  
 Misc : soil/water  
 ALS Vial : 1 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:47:05 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



**EPA 8260D**  
**Quality Assurance Data**

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120804.D  
 Acq On : 08 Dec 2022 06:36 am  
 Operator : LM  
 Sample : 02-2869 lcs  
 Misc : water  
 ALS Vial : 2 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	43747	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35166	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	19160	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	11595	10.057	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	100.60%
30) 1,2-Dichloroethane-d4	4.36	102	2583	9.905	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	99.00%
35) Toluene-d8	5.98	98	42838	10.039	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	100.40%
57) 4-Bromofluorobenzene	8.38	95	16474	9.951	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	99.50%
Target Compounds						
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	1.09	85	30649	9.846	ppb	91
5) Chloromethane	1.23	50	39896	10.529	ppb	92
6] Vinyl chloride	1.30	62	32901	10.055	ppb	92
7) Bromomethane	1.55	94	20749	10.039	ppb	# 61
8] Chloroethane	1.61	64	16408	11.278	ppb	84
9) Trichlorofluoromethane	1.78	101	38049	9.673	ppb	70
10) 2-Propanol	0.00		0	N.D.		
11) Acetone	2.27	58	6564	48.088	ppb	# 86
12] 1,1-Dichloroethene	2.20	96	11228	10.376	ppb	94
13) Hexane	3.06	57	20916	11.167	ppb	98
14) Methylene chloride	2.61	84	12628	10.277	ppb	# 79
15) t-Butyl alcohol (TBA)	2.73	59	10401	51.386	ppb	97
16] Methyl t-butyl ether (...)	2.84	73	34483	10.654	ppb	100
17] trans-1,2-Dichloroethene	2.83	96	12642	10.814	ppb	83
18) Diisopropyl ether (DIPE)	3.24	45	41231	9.894	ppb	98
19] 1,1-Dichloroethane	3.18	63	23065	10.594	ppb	95
20) Ethyl t-butyl ether (E...)	3.55	87	13458	10.010	ppb	96
21) 2,2-Dichloropropane	3.67	77	14510	10.786	ppb	93
22] cis-1,2-Dichloroethene	3.67	96	13228	10.347	ppb	90
23) Chloroform	3.95	83	21369	10.251	ppb	95
24) 2-Butanone (MEK)	3.71	43	35112	48.096	ppb	100
25) t-Amyl methyl ether (T...)	4.49	73	32438	10.039	ppb	96
26] 1,2-Dichloroethane (EDC)	4.42	62	18093	10.503	ppb	96
27] 1,1,1-Trichloroethane	4.08	97	20763	10.241	ppb	95
28) 1,1-Dichloropropene	4.22	75	16495	10.240	ppb	93
29) Carbon tetrachloride	4.22	117	17913	10.339	ppb	97
31] Benzene	4.39	78	45816	10.323	ppb	93
32] Trichloroethene	4.93	95	13757	9.866	ppb	94
33) 1,2-Dichloropropane	5.13	63	13037	9.465	ppb	100
34) Bromodichloromethane	5.37	83	16091	9.802	ppb	94
36) Dibromomethane	5.23	93	7645	9.637	ppb	79

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120804.D  
 Acq On : 08 Dec 2022 06:36 am  
 Operator : LM  
 Sample : 02-2869 lcs  
 Misc : water  
 ALS Vial : 2 Sample Multiplier: 1  
 InstName : GCMS11

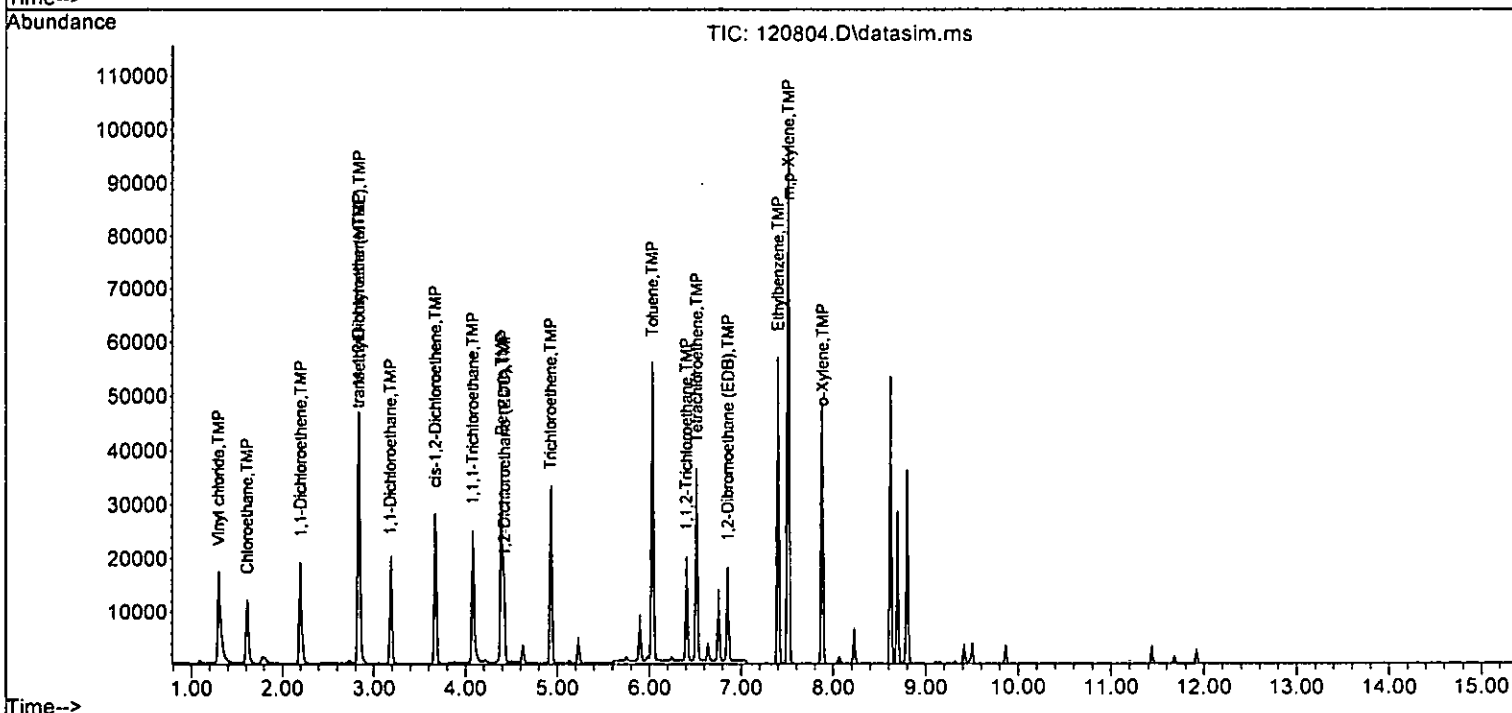
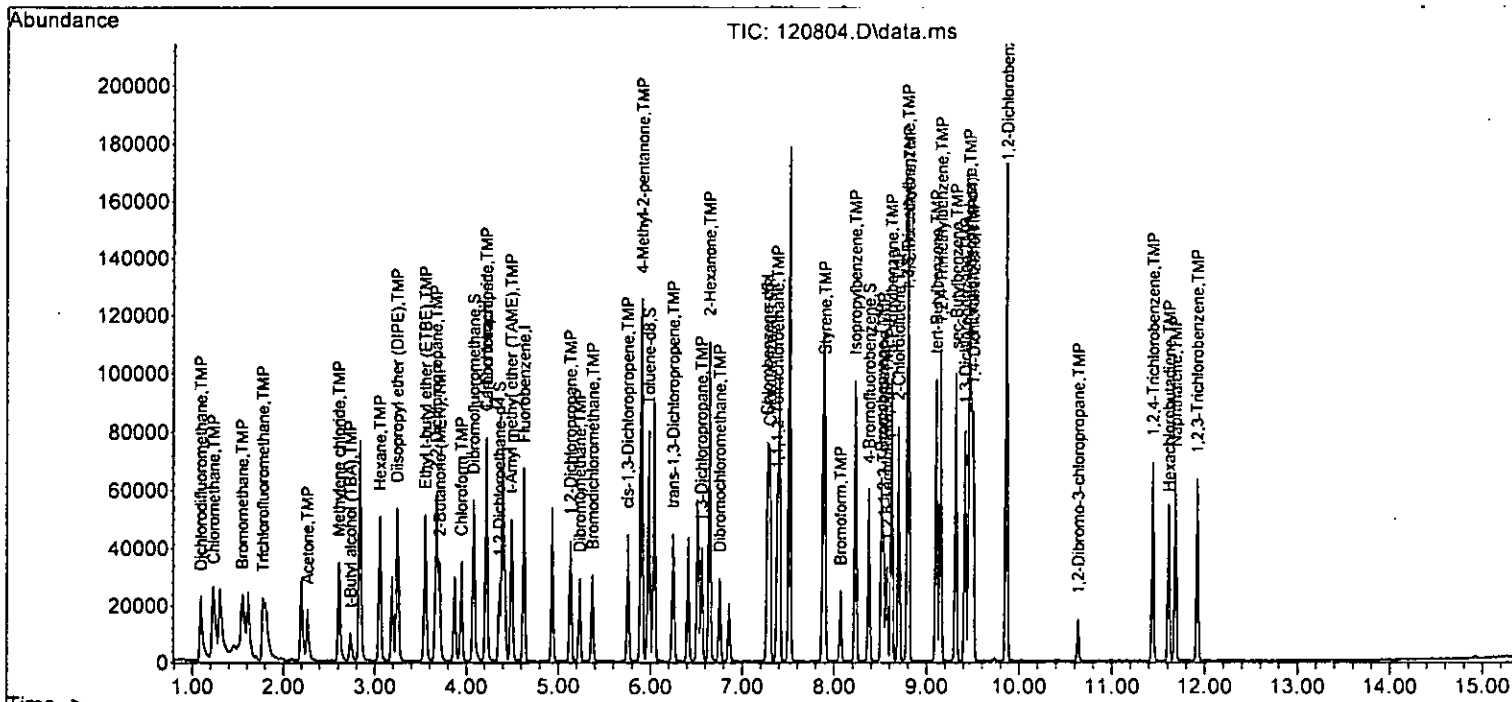
Quant Time: Dec 08 07:13:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11640	49.139	ppb	95
38) cis-1,3-Dichloropropene	5.75	75	20081	10.360	ppb	96
40] Toluene	6.03	92	30999	10.213	ppb	99
41) trans-1,3-Dichloropropene	6.25	75	17794	9.968	ppb	92
42] 1,1,2-Trichloroethane	6.40	83	9786	10.040	ppb	98
43) 2-Hexanone	6.64	43	58051	52.984	ppb	97
44) 1,3-Dichloropropane	6.55	76	16989	9.974	ppb	99
45] Tetrachloroethene	6.51	164	11934	10.260	ppb	99
46) Dibromochloromethane	6.75	129	13266	10.303	ppb	95
47] 1,2-Dibromoethane (EDB)	6.85	107	11797	10.388	ppb	100
48) Chlorobenzene	7.30	112	33525	9.960	ppb	98
49] Ethylbenzene	7.40	91	59887	10.637	ppb	100
50) 1,1,1,2-Tetrachloroethane	7.38	131	12520	9.940	ppb	77
51] m,p-Xylene	7.51	106	44588	20.676	ppb	100
52] o-Xylene	7.88	106	21733	10.267	ppb	98
53) Styrene	7.90	104	32831	9.297	ppb	96
54) Isopropylbenzene	8.23	105	57186	10.124	ppb	92
55) Bromoform	8.07	173	9625	10.172	ppb	98
58) n-Propylbenzene	8.62	91	66372	10.230	ppb	92
59) Bromobenzene	8.51	156	15034	9.938	ppb	84
60) 1,3,5-Trimethylbenzene	8.79	105	46820	9.847	ppb	94
61) 1,1,2,2-Tetrachloroethane	8.53	83	15406	10.963	ppb	84
62) 1,2,3-Trichloropropane	8.57	75	11545	10.064	ppb	93
63) 2-Chlorotoluene	8.70	91	38243	9.716	ppb	97
64) 4-Chlorotoluene	8.81	91	44118	9.778	ppb	99
65) tert-Butylbenzene	9.10	119	41580	9.893	ppb	95
66) 1,2,4-Trimethylbenzene	9.15	105	48703	9.873	ppb	99
67) sec-Butylbenzene	9.32	105	61429	10.146	ppb	97
68) p-Isopropyltoluene	9.46	119	52803	10.183	ppb	97
69) 1,3-Dichlorobenzene	9.42	146	28378	10.082	ppb	91
70) 1,4-Dichlorobenzene	9.50	146	28276	9.854	ppb	96
71) 1,2-Dichlorobenzene	9.86	146	26708	10.245	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.64	75	3057	10.089	ppb	98
73) 1,2,4-Trichlorobenzene	11.44	180	19140	10.210	ppb	96
74) Hexachlorobutadiene	11.61	225	10422	10.550	ppb	96
75) Naphthalene	11.68	128	44949	9.769	ppb	98
76) 1,2,3-Trichlorobenzene	11.92	180	17167	10.119	ppb	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120804.D  
 Acq On : 08 Dec 2022 06:36 am  
 Operator : LM  
 Sample : 02-2869 lcs  
 Misc : water  
 ALS Vial : 2 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:13:47 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120805.D  
 Acq On : 08 Dec 2022 06:59 am  
 Operator : LM  
 Sample : 02-2869 lcsd  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 07:15:56 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	43321	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	34795	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	18678	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.07	113	11626	10.183	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	101.80%		
30) 1,2-Dichloroethane-d4	4.35	102	2651	10.265	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery =	102.70%		
35) Toluene-d8	5.98	98	43477	10.289	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery =	102.90%		
57) 4-Bromofluorobenzene	8.38	95	15796	9.788	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery =	97.90%		
Target Compounds						
2) Ethanol	1.86	45	64	No Calib		Qvalue
4) Dichlorodifluoromethane	1.09	85	30992	10.054	ppb	99
5) Chloromethane	1.22	50	40823	10.888	ppb	99
6] Vinyl chloride	1.29	62	32897	10.153	ppb	91
7) Bromomethane	1.54	94	20543	10.036	ppb	# 59
8] Chloroethane	1.60	64	16162	11.217	ppb	82
9) Trichlorofluoromethane	1.77	101	38398	9.858	ppb	67
10) 2-Propanol	0.00		0	N.D.		
11) Acetone	2.26	58	6192	45.809	ppb	89
12] 1,1-Dichloroethene	2.19	96	10911	10.182	ppb	95
13) Hexane	3.05	57	20278	10.926	ppb	93
14) Methylene chloride	2.60	84	12621	10.380	ppb	83
15) t-Butyl alcohol (TBA)	2.73	59	9821	48.998	ppb	91
16] Methyl t-butyl ether (...)	2.83	73	33751	10.530	ppb	99
17] trans-1,2-Dichloroethene	2.83	96	12357	10.674	ppb	100
18) Diisopropyl ether (OIPE)	3.24	45	40641	9.848	ppb	98
19] 1,1-Dichloroethane	3.18	63	22480	10.426	ppb	100
20) Ethyl t-butyl ether (E...)	3.54	87	13613	10.225	ppb	92
21) 2,2-Dichloropropane	3.66	77	15253	11.461	ppb	97
22] cis-1,2-Dichloroethene	3.67	96	12940	10.221	ppb	99
23) Chloroform	3.94	83	20065	9.720	ppb	88
24) 2-Butanone (MEK)	3.70	43	34071	47.097	ppb	96
25) t-Amyl methyl ether (T...)	4.49	73	32330	10.104	ppb	97
26] 1,2-Dichloroethane (EDC)	4.41	62	17680	10.364	ppb	100
27] 1,1,1-Trichloroethane	4.08	97	20086	10.004	ppb	99
28) 1,1-Dichloropropene	4.22	75	15814	9.914	ppb	88
29) Carbon tetrachloride	4.21	117	17471	10.183	ppb	96
31] Benzene	4.39	78	44772	10.186	ppb	100
32] Trichloroethene	4.93	95	13366	9.679	ppb	98
33) 1,2-Dichloropropane	5.13	63	13130	9.627	ppb	100
34) Bromodichloromethane	5.37	83	15944	9.808	ppb	93
36) Dibromomethane	5.23	93	8039	10.234	ppb	85

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120805.D  
 Acq On : 08 Dec 2022 06:59 am  
 Operator : LM  
 Sample : 02-2869 lcsd  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS11

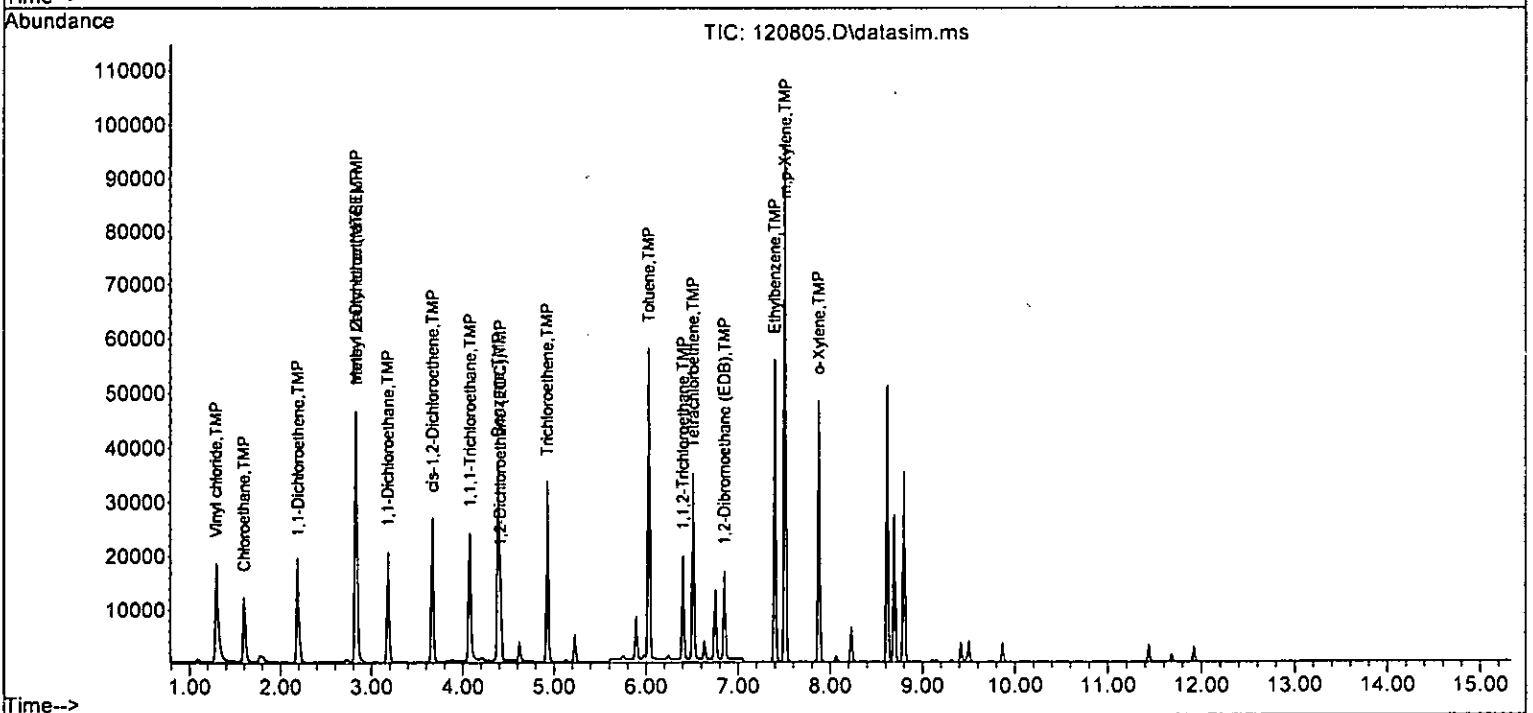
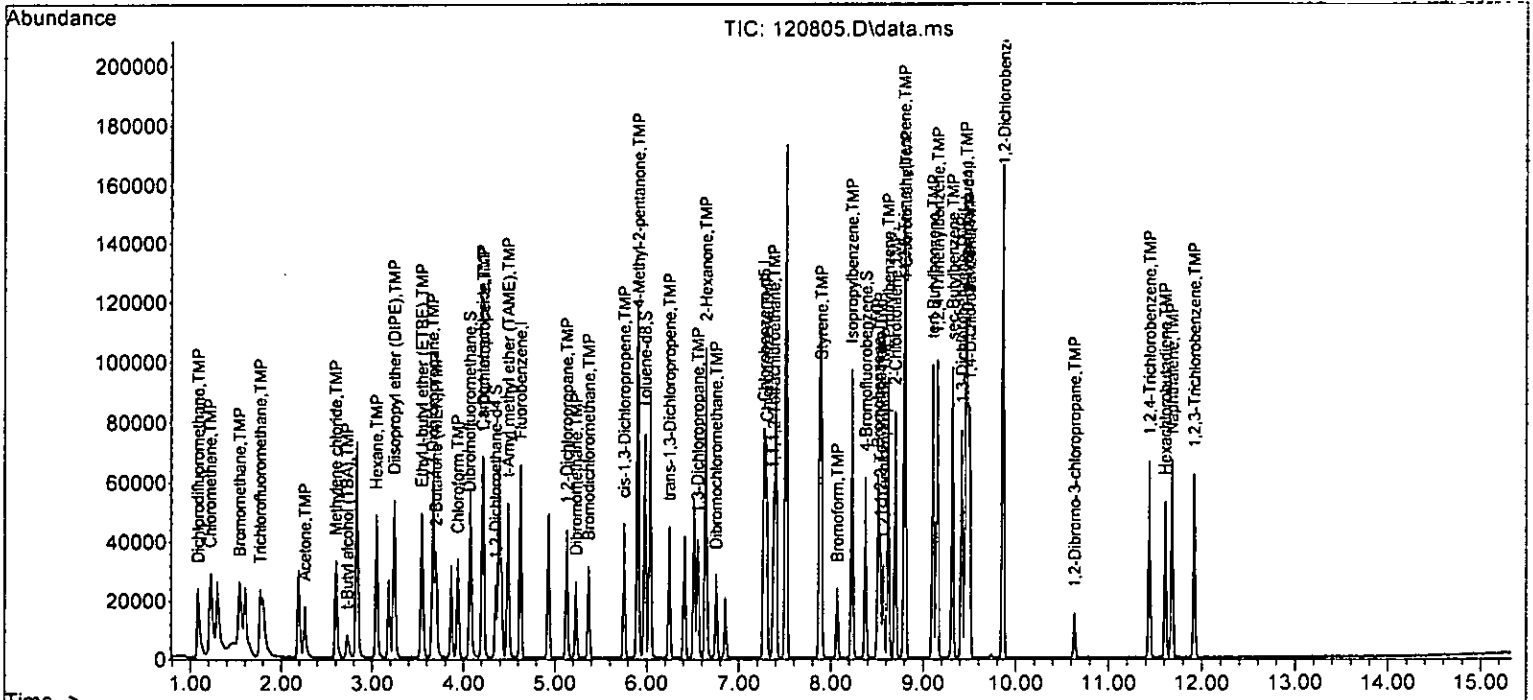
Quant Time: Dec 08 07:15:56 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	5.91	85	11380	48.514	ppb	96
38) cis-1,3-Dichloropropene	5.75	75	18859	9.826	ppb	97
40] Toluene	6.03	92	30242	10.070	ppb	100
41) trans-1,3-Dichloropropene	6.25	75	17864	10.114	ppb	94
42] 1,1,2-Trichloroethane	6.40	83	9616	9.970	ppb	99
43) 2-Hexanone	6.64	43	54012	49.823	ppb	99
44) 1,3-Dichloropropane	6.55	76	16969	10.068	ppb	97
45] Tetrachloroethene	6.51	164	11657	10.127	ppb	99
46) Dibromochloromethane	6.75	129	12976	10.185	ppb	92
47] 1,2-Dibromoethane (EDB)	6.85	107	11515	10.247	ppb	99
48) Chlorobenzene	7.30	112	33523	10.065	ppb	97
49] Ethylbenzene	7.40	91	58359	10.475	ppb	99
50) 1,1,1,2-Tetrachloroethane	7.38	131	11926	9.569	ppb	78
51] m,p-Xylene	7.51	106	43469	20.371	ppb	99
52] o-Xylene	7.88	106	21249	10.145	ppb #	65
53) Styrene	7.90	104	31424	8.994	ppb	94
54) Isopropylbenzene	8.23	105	55503	9.931	ppb	92
55) Bromoform	8.07	173	9262	9.893	ppb	93
58) n-Propylbenzene	8.62	91	63422	10.028	ppb	94
59) Bromobenzene	8.51	156	14458	9.804	ppb	83
60) 1,3,5-Trimethylbenzene	8.79	105	46364	10.003	ppb	98
61) 1,1,2,2-Tetrachloroethane	8.53	83	14895	10.873	ppb	78
62) 1,2,3-Trichloropropane	8.57	75	11920	10.659	ppb	98
63) 2-Chlorotoluene	8.70	91	37645	9.811	ppb	94
64) 4-Chlorotoluene	8.81	91	43678	9.930	ppb	98
65) tert-Butylbenzene	9.10	119	41301	10.080	ppb	96
66) 1,2,4-Trimethylbenzene	9.15	105	46935	9.760	ppb	100
67) sec-Butylbenzene	9.32	105	59947	10.157	ppb	100
68) p-Isopropyltoluene	9.46	119	51742	10.236	ppb	96
69) 1,3-Dichlorobenzene	9.42	146	27812	10.136	ppb	93
70) 1,4-Dichlorobenzene	9.50	146	27627	9.876	ppb	95
71) 1,2-Dichlorobenzene	9.86	146	26058	10.253	ppb	95
72) 1,2-Dibromo-3-chloropr...	10.63	75	3096	10.481	ppb	93
73) 1,2,4-Trichlorobenzene	11.44	180	18899	10.341	ppb	96
74) Hexachlorobutadiene	11.61	225	10156	10.546	ppb	91
75) Naphthalene	11.68	128	44506	9.923	ppb	99
76) 1,2,3-Trichlorobenzene	11.92	180	17002	10.280	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120805.D  
 Acq On : 08 Dec 2022 06:59 am  
 Operator : LM  
 Sample : 02-2869 lcsd  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS11

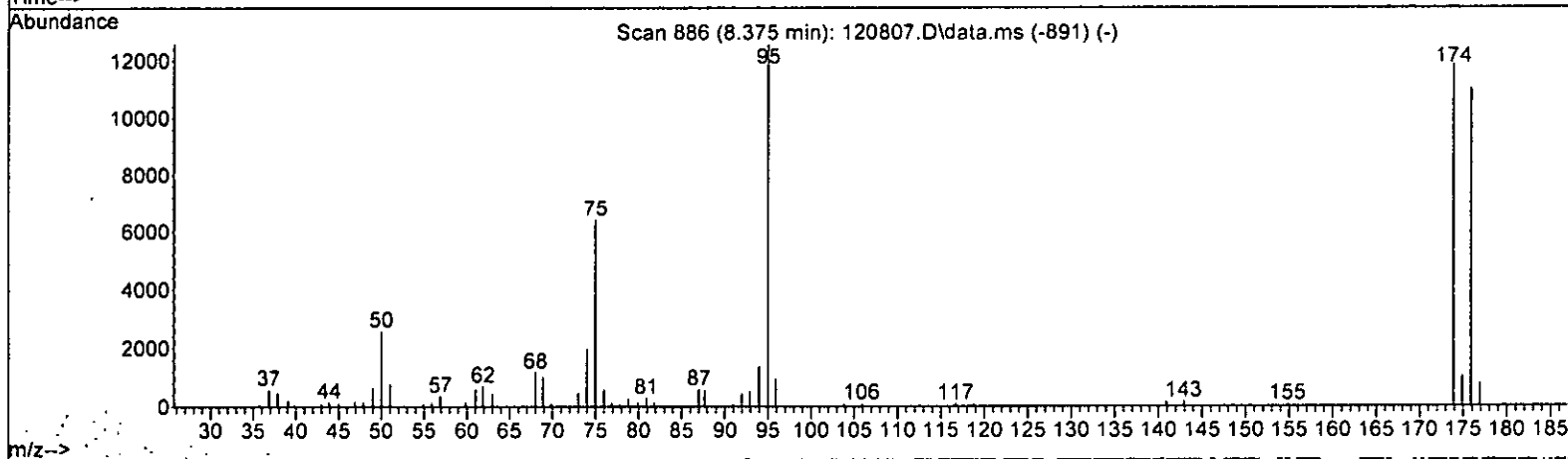
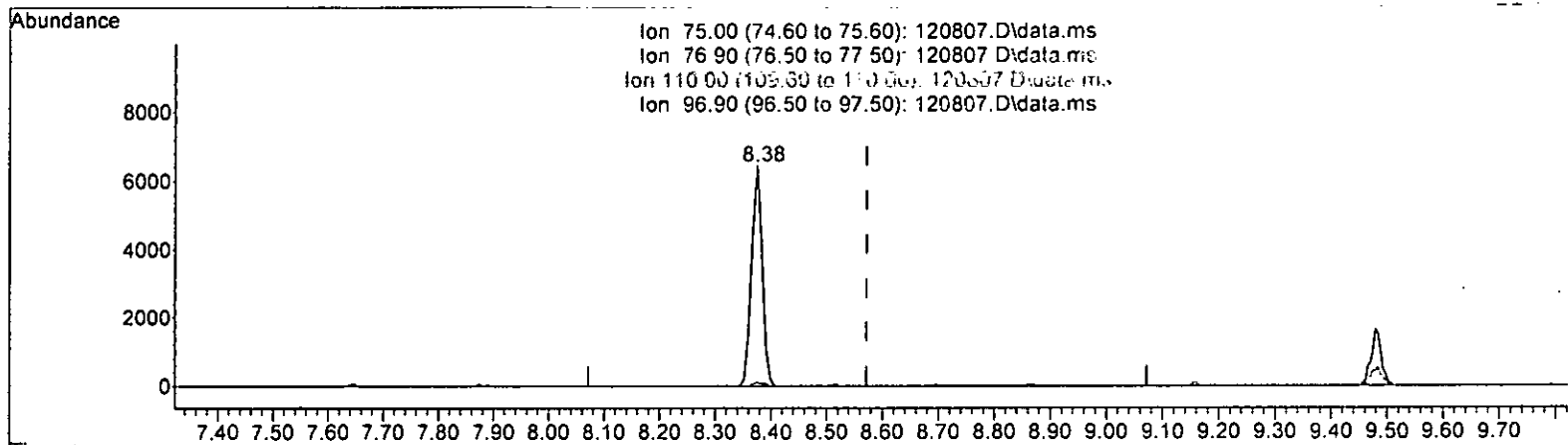
Quant Time: Dec 08 07:15:56 2022  
 Quant Method : Y:\Methods\Inst11\VB12022ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120807.D  
 Acq On : 08 Dec 2022 07:46 am  
 Operator : LM  
 Sample : 02-2869 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 08:33:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 120807.D\data.ms

(62) 1,2,3-Trichloropropane (TMP)

8.375min (-0.197) 7.512 ppb

response	8409
Ion	Exp% Act%
75.00	100.00 100.00
76.90	26.80 1.73
110.00	32.90 0.00#
96.90	16.30 0.00

Data Path : Y:\Proc\_GCM511\12-08-22\  
 Data File : 120807.D  
 Acq On : 08 Dec 2022 07:46 am  
 Operator : LM  
 Sample : 02-2869 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCM511

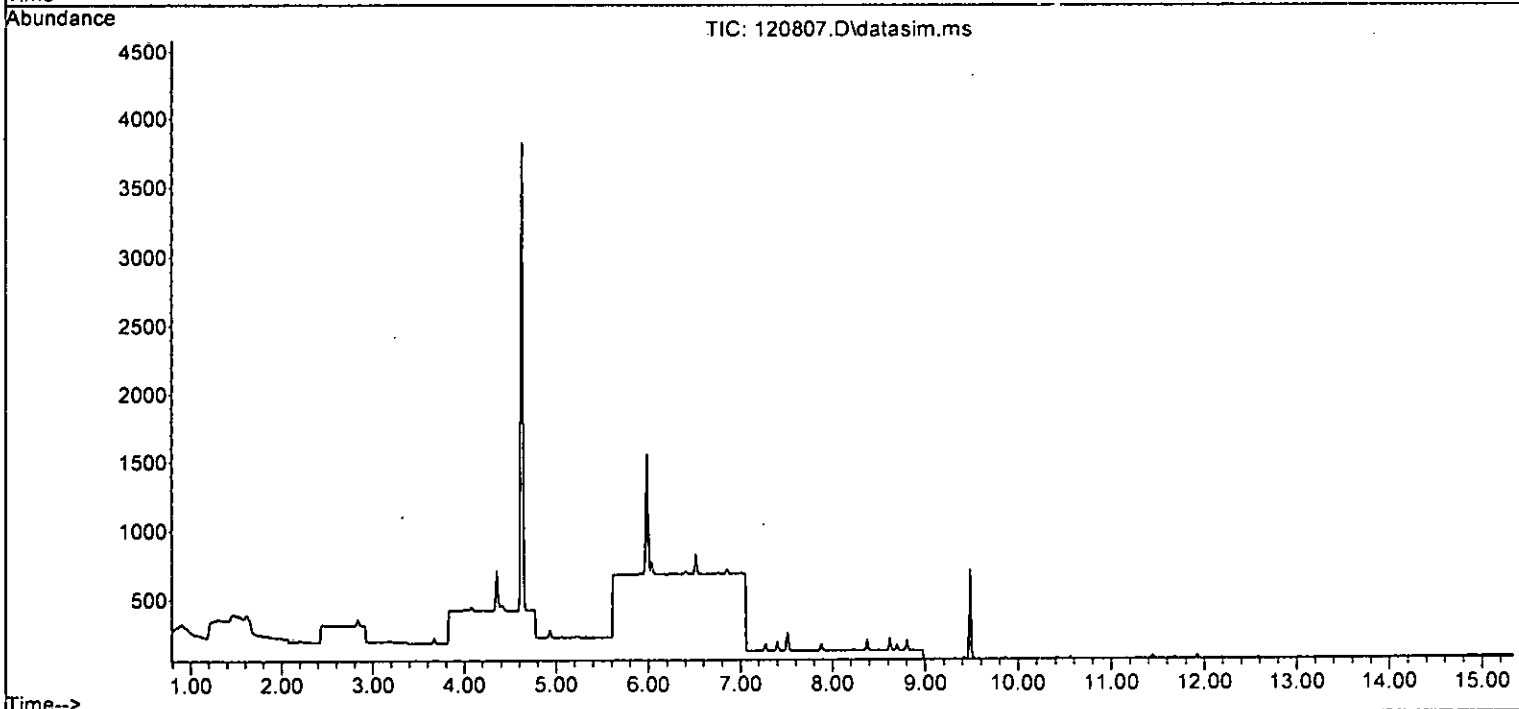
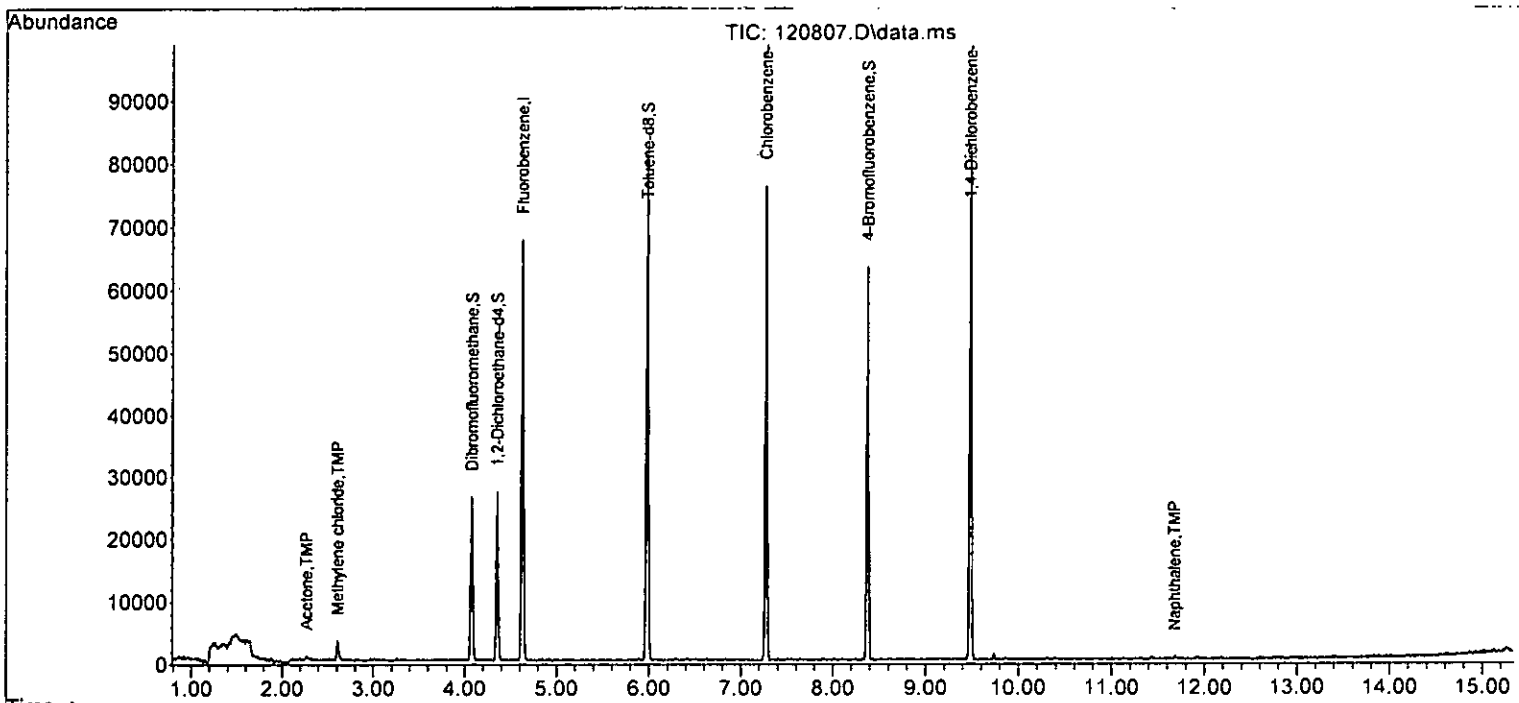
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 Quant Method : Y:\Methods\Inst11\V8120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

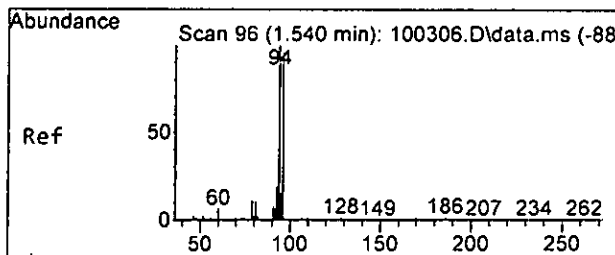
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	44374	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35325	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	18697	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	12305	10.522	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	105.20%	
30) 1,2-Dichloroethane-d4	4.36	102	2669	10.090	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	100.90%	
35) Toluene-d8	5.98	98	44292	10.233	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	102.30%	
57) 4-Bromofluorobenzene	8.38	95	16694	10.334	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	103.30%	
Target Compounds						
7) Bromomethane	1.53	94	262	Below Cal	#	18
11) Acetone	2.27	58	176	1.271	ppb #	1
14) Methylene chloride	2.61	84	1221	0.304	ppb #	62
21) 2,2-Dichloropropane	3.74	77	67	Below Cal		54
24) 2-Butanone (MEK)	3.71	43	95	Below Cal		63
45] Tetrachloroethene	6.51	164	58	Below Cal		95
49] Ethylbenzene	7.40	91	80	Below Cal		99
51] m,p-Xylene	7.51	106	65	Below Cal		99
75) Naphthalene	11.68	128	443	0.099	ppb	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-08-22\  
Data File : 120807.D  
Acq On : 08 Dec 2022 07:46 am  
Operator : LM  
Sample : 02-2869 mb  
Misc : water  
ALS Vial : 4 Sample Multiplier: 1  
InstName : GCMS11

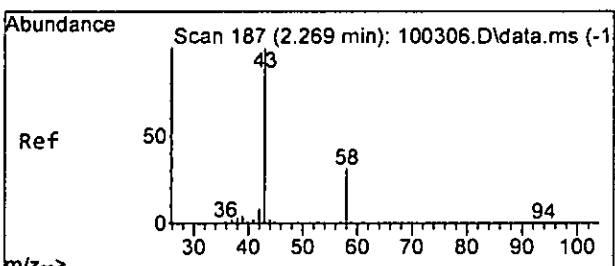
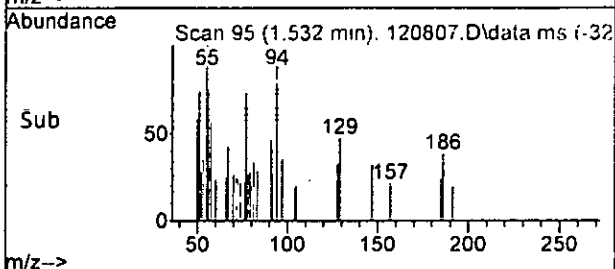
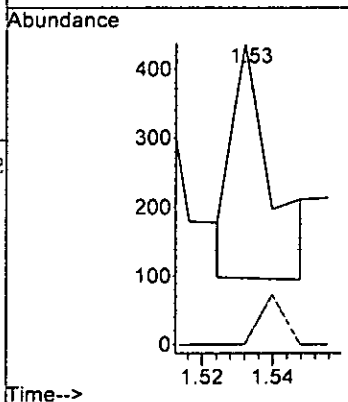
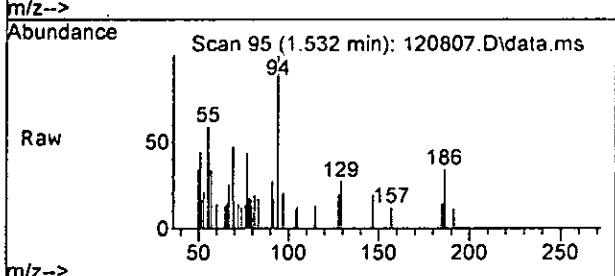
Quant Time: Dec 08 08:33:37 2022  
Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Mon Dec 05 13:11:58 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080522.M





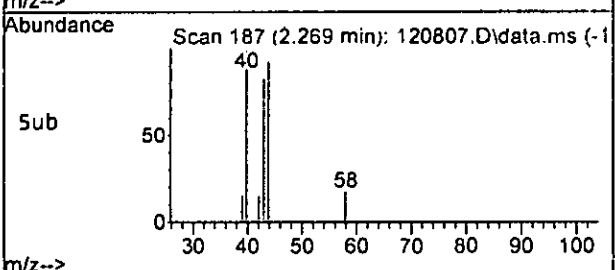
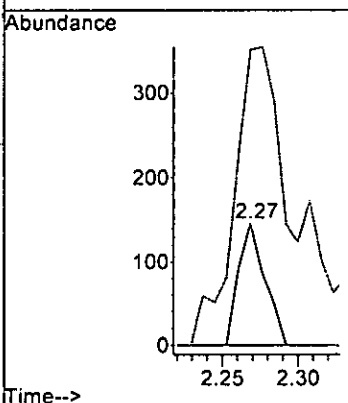
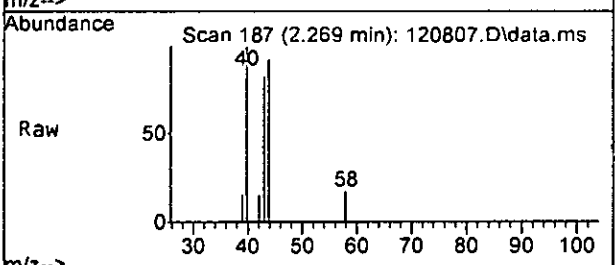
#7  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.53 min Scan# 95  
 Delta R.T. -0.008 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

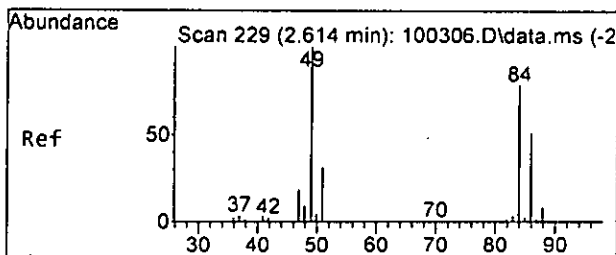
Tgt Ion: 94 Resp: 262  
 Ion Ratio Lower Upper  
 94 100  
 96 0.0 33.9 93.9#



#11  
 Acetone  
 Concen: 1.271 ppb  
 RT: 2.27 min Scan# 187  
 Delta R.T. -0.000 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

Tgt Ion: 58 Resp: 176  
 Ion Ratio Lower Upper  
 58 100  
 43 579.5 319.7 379.7#

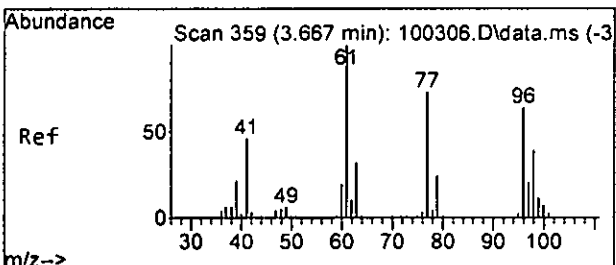
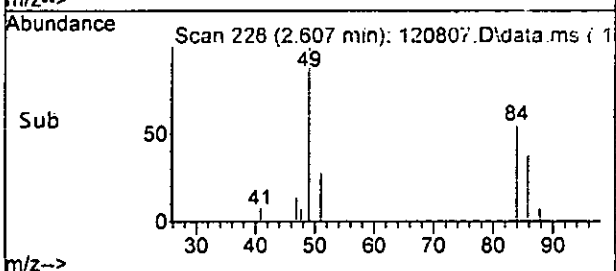
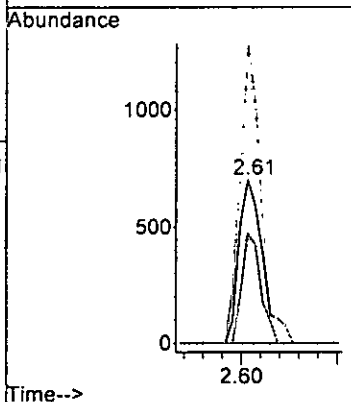
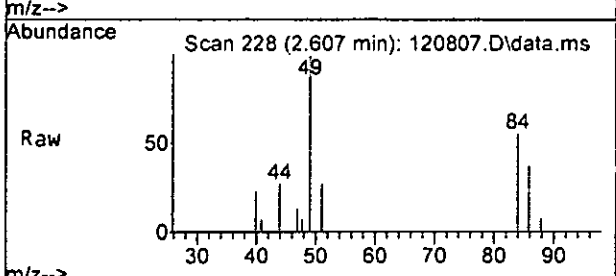




#14  
 Methylene chloride  
 Concen: 0.304 ppb  
 RT: 2.61 min Scan# 228  
 Delta R.T. -0.000 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

Tgt Ion: 84 Resp: 1221

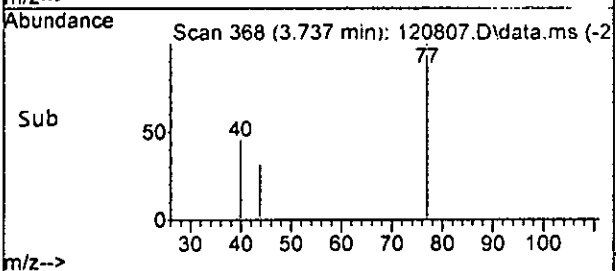
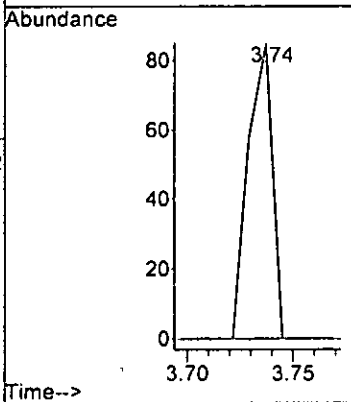
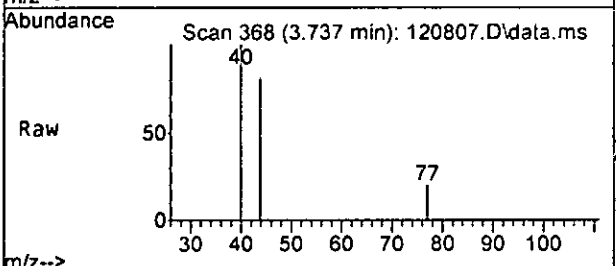
Ion	Ratio	Lower	Upper
84	100		
86	67.5	30.4	90.4
49	181.4	93.0	153.0



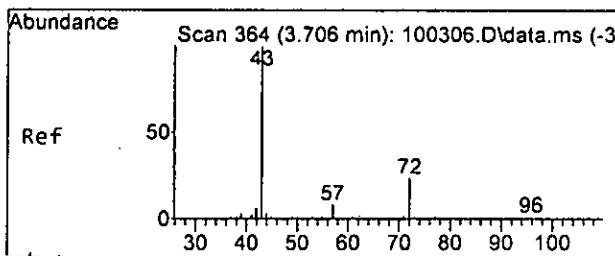
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.74 min Scan# 368  
 Delta R.T. 0.070 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

Tgt Ion: 77 Resp: 67

Ion	Ratio	Lower	Upper
77	100		
97	0.0	0.0	51.5

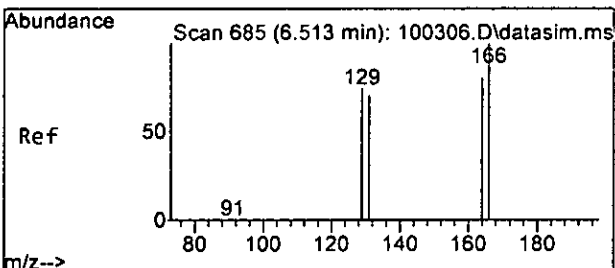
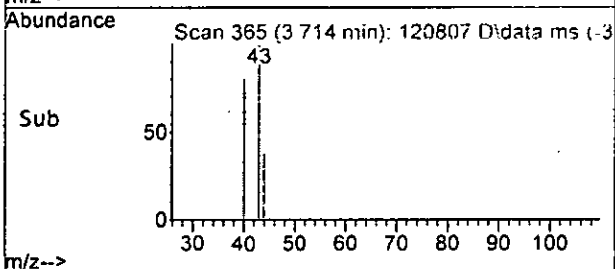
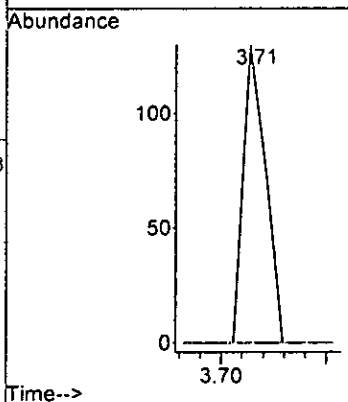
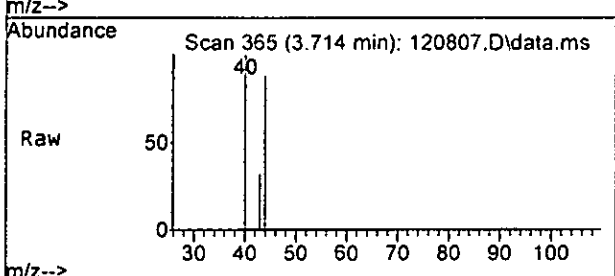






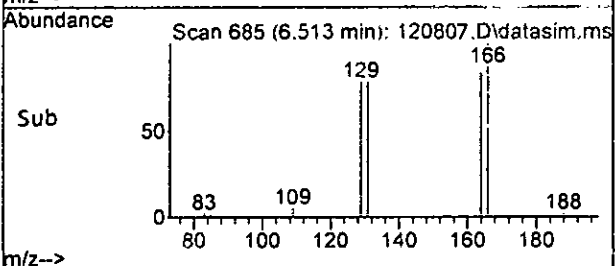
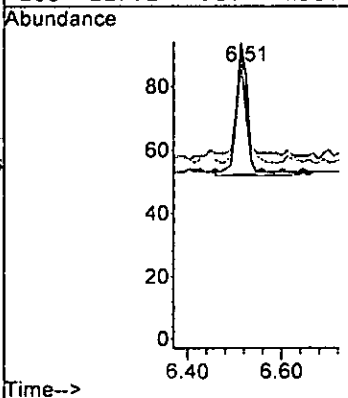
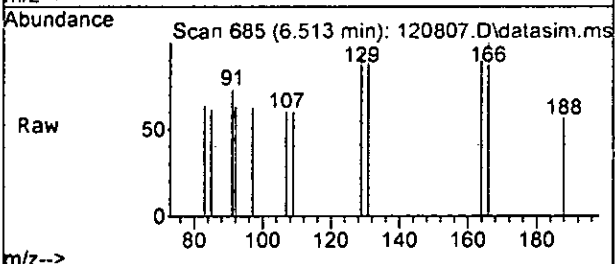
#24  
 2-Butanone (MEK)  
 Concen: Below Cal  
 RT: 3.71 min Scan# 365  
 Delta R.T. 0.008 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

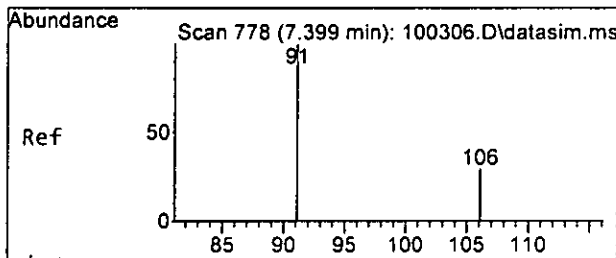
Tgt Ion:	Resp:	Lower	Upper
43	100		
72	0.0	0.0	49.9
57	0.0	0.0	28.2



#45  
 Tetrachloroethene  
 Concen: Below Cal  
 RT: 6.51 min Scan# 685  
 Delta R.T. 0.000 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

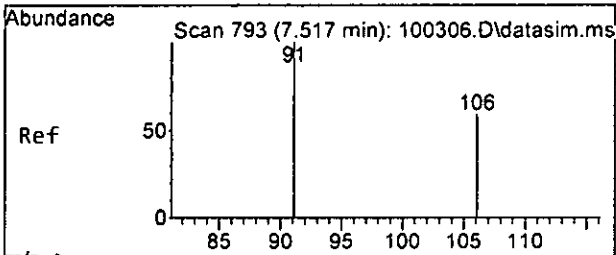
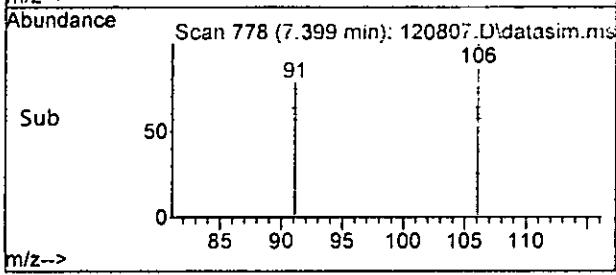
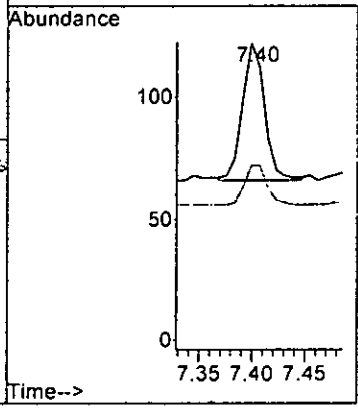
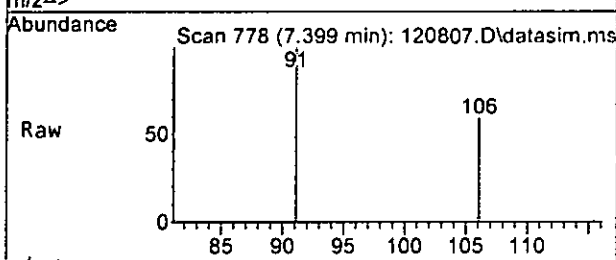
Tgt Ion:	Resp:	Lower	Upper
164	100		
129	94.3	62.5	122.5
131	88.6	60.3	120.3
166	117.1	98.4	158.4





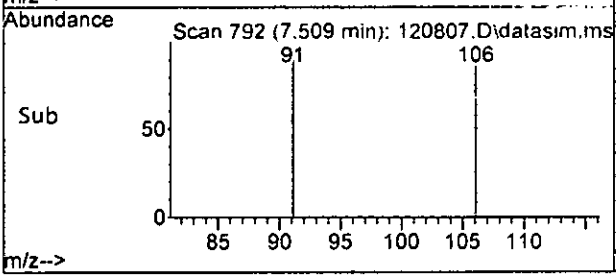
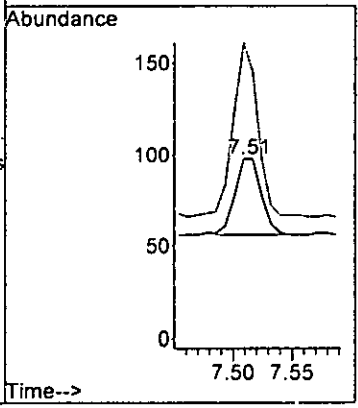
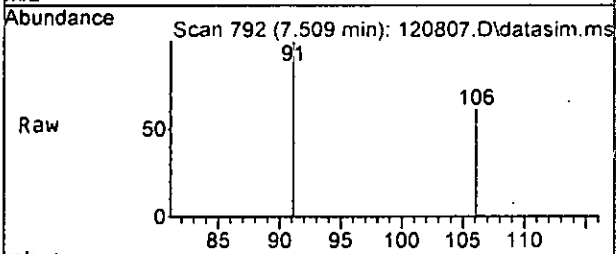
#49  
Ethylbenzene  
Concen: Below Cal  
RT: 7.40 min Scan# 778  
Delta R.T. -0.001 min  
Lab File: 120807.D  
Acq: 08 Dec 2022 07:46 am

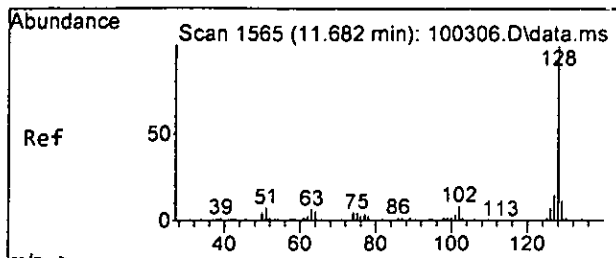
Tgt Ion: 91 Resp: 80  
Ion Ratio Lower Upper  
91 100  
106 29.1 0.0 58.4



#51  
m,p-Xylene  
Concen: Below Cal  
RT: 7.51 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: 120807.D  
Acq: 08 Dec 2022 07:46 am

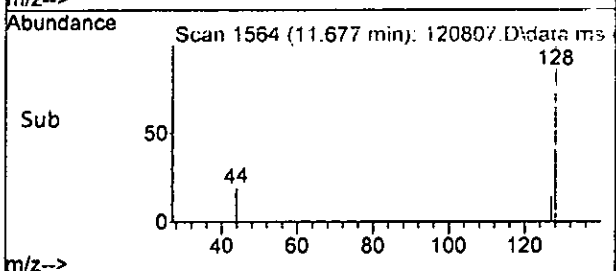
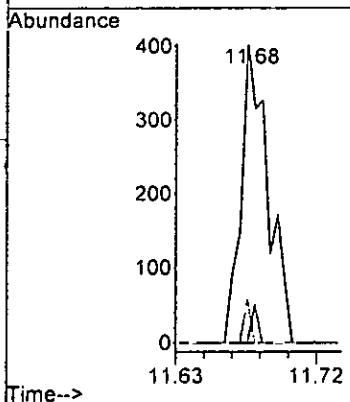
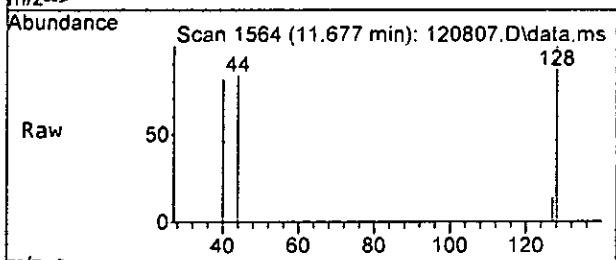
Tgt Ion: 106 Resp: 65  
Ion Ratio Lower Upper  
106 100  
91 223.8 191.7 251.7





#75  
 Naphthalene  
 Concen: 0.099 ppb  
 RT: 11.68 min Scan# 1564  
 Delta R.T. -0.005 min  
 Lab File: 120807.D  
 Acq: 08 Dec 2022 07:46 am

Tgt Ion	Resp	Lower	Upper
128	100		
129	0.0	0.0	41.7
127	14.4	0.0	43.5



Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120807.D  
 Acq On : 08 Dec 2022 07:46 am  
 Operator : LM  
 Sample : 02-2869 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 08:33:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	44374	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	35325	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	18697	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	12305	10.522	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	105.20%		
30) 1,2-Dichloroethane-d4	4.36	102	2669	10.090	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery =	100.90%		
35) Toluene-d8	5.98	98	44292	10.233	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery =	102.30%		
57) 4-Bromofluorobenzene	8.38	95	16694	10.334	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery =	103.30%		
<b>Target Compounds</b>						
2) Ethanol	0.00		0	N.D.		Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.23	50	1650	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) Bromomethane	1.53	94	262	Below Cal	#	18
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	0.00		0	N.D.		
11) Acetone	2.27	58	176	1.271	ppb	# 1
12) 1,1-Dichloroethene	0.00		0	N.D.		
13) Hexane	0.00		0	N.D.		
14) Methylene chloride	2.61	84	1221	0.304	ppb	# 62
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17) trans-1,2-Dichloroethene	0.00		0	N.D.		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.74	77	67	Below Cal		54
22) cis-1,2-Dichloroethene	0.00		0	N.D.		
23) Chloroform	0.00		0	N.D.		
24) 2-Butanone (MEK)	3.71	43	95	Below Cal		63
25) t-Amyl methyl ether (T...)	0.00		0	N.D.		
26) 1,2-Dichloroethane (EDC)	0.00		0	N.D.		
27) 1,1,1-Trichloroethane	0.00		0	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31) Benzene	0.00		0	N.D.		
32) Trichloroethene	0.00		0	N.D.		
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120807.D  
 Acq On : 08 Dec 2022 07:46 am  
 Operator : LM  
 Sample : 02-2869 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

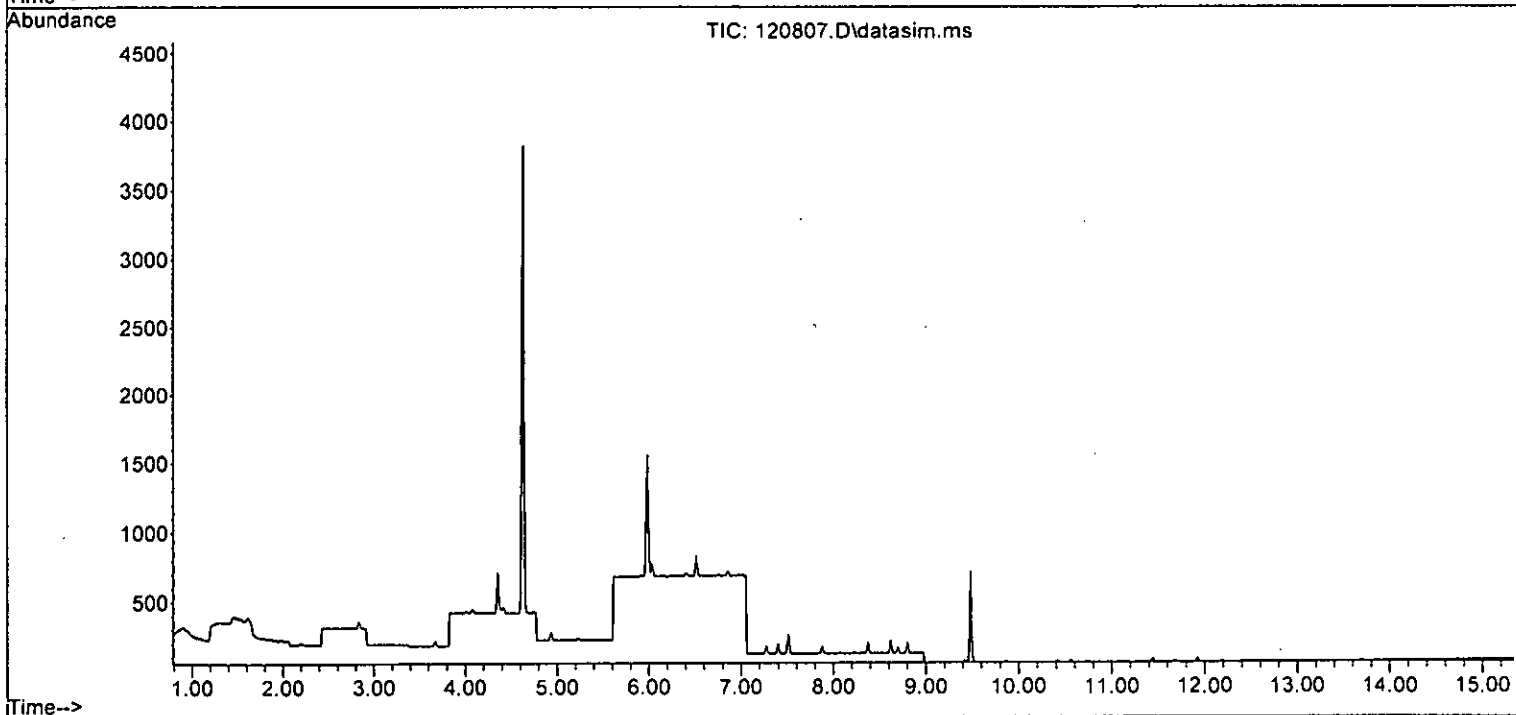
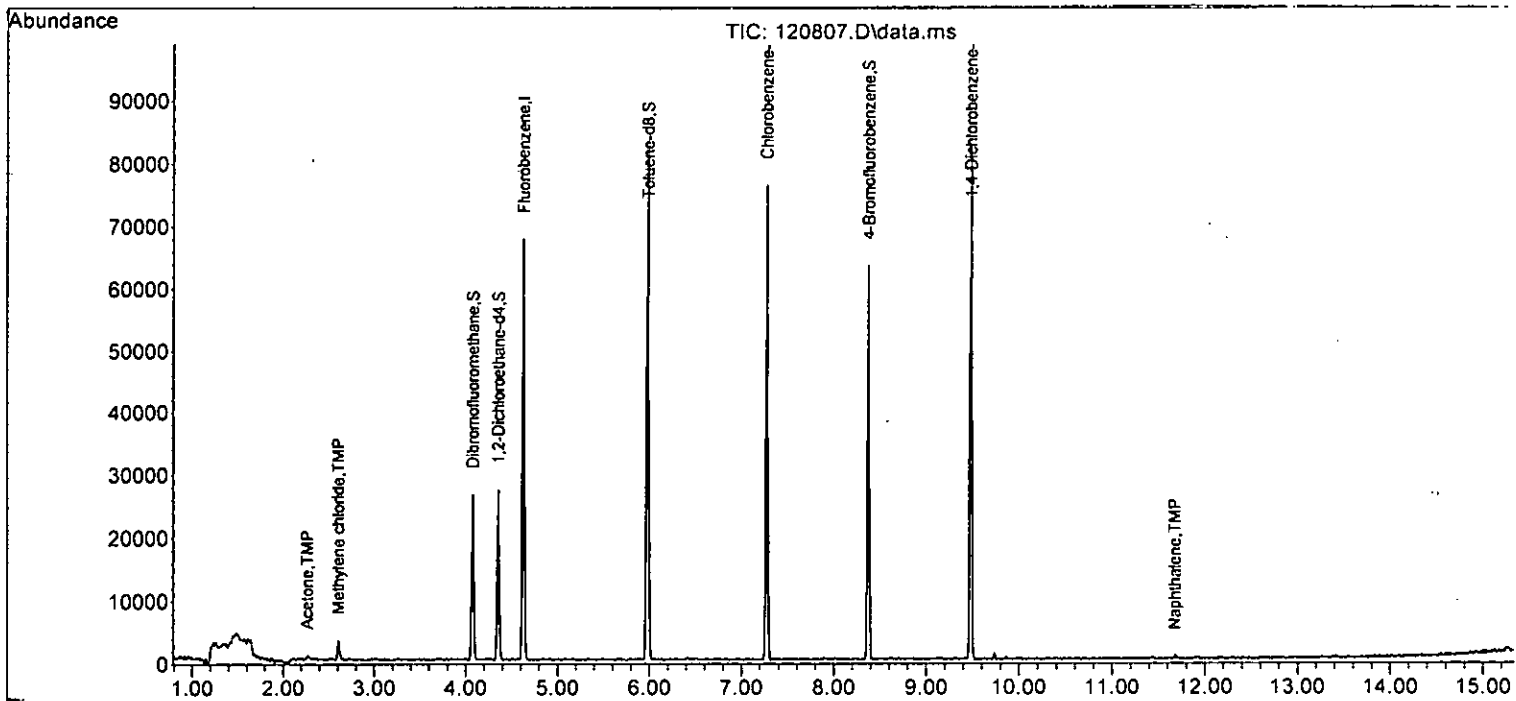
Quant Time: Dec 08 08:33:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40) Toluene	0.00		0		N.D.	
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D.	
43) 2-Hexanone	0.00		0		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.51	164	58	Below Cal		95
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.40	91	80	Below Cal		99
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.51	106	65	Below Cal		99
52) o-Xylene	0.00		0		N.D.	
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	8.23	105	114		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.62	91	111		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.80	105	97		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.70	91	71		N.D.	
64) 4-Chlorotoluene	8.81	91	92		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.15	105	66		N.D.	
67) sec-Butylbenzene	9.31	105	111		N.D.	
68) p-Isopropyltoluene	0.00		0		N.D.	
69) 1,3-Dichlorobenzene	9.42	146	56		N.D.	
70) 1,4-Dichlorobenzene	9.50	146	69		N.D.	
71) 1,2-Dichlorobenzene	9.86	146	50		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	11.44	180	132		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.68	128	443	0.099 ppb		85
76) 1,2,3-Trichlorobenzene	11.91	180	122		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-08-22\  
 Data File : 120807.D  
 Acq On : 08 Dec 2022 07:46 am  
 Operator : LM  
 Sample : 02-2869 mb  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 08 08:33:37 2022  
 Quant Method : Y:\Methods\Inst11\VB120222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Mon Dec 05 13:11:58 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120907.D  
 Acq On : 09 Dec 2022 11:15 am  
 Operator : lm  
 Sample : 02-2859 mb2  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

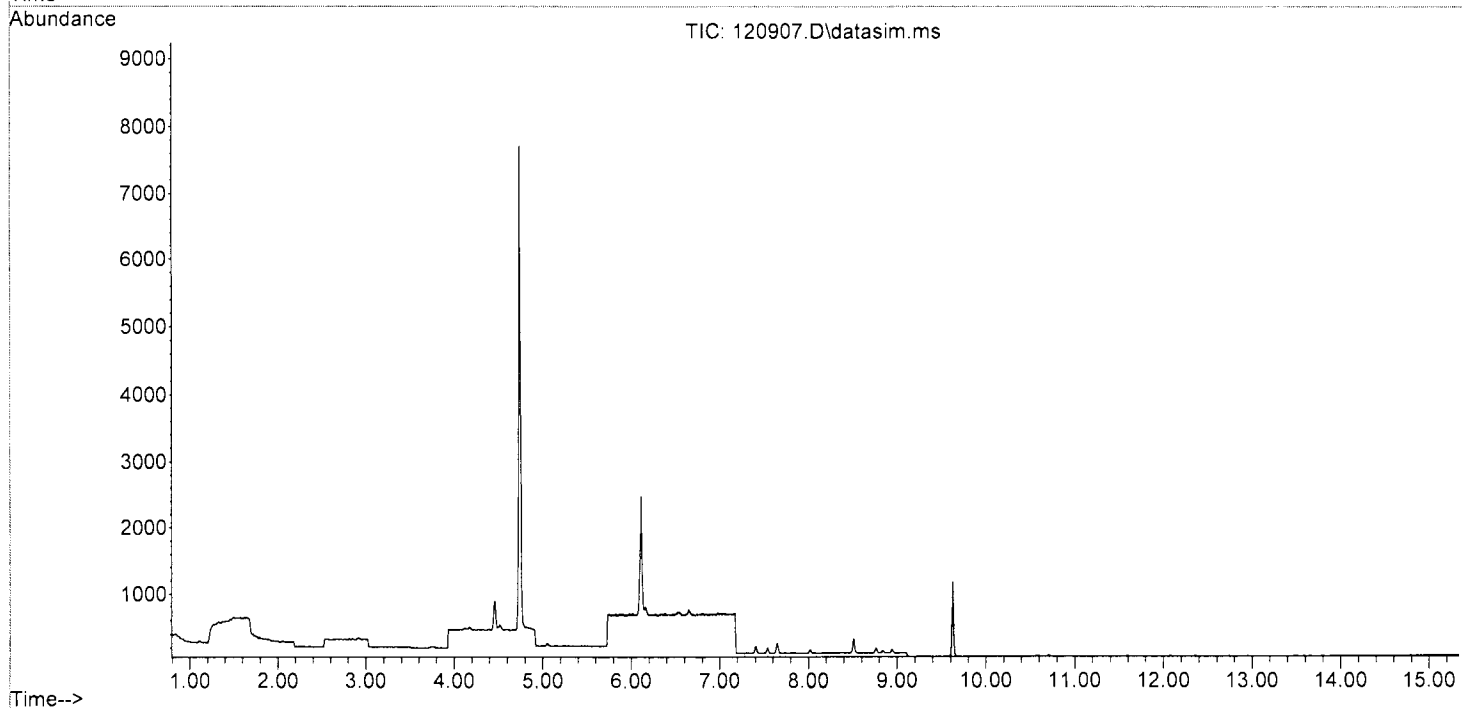
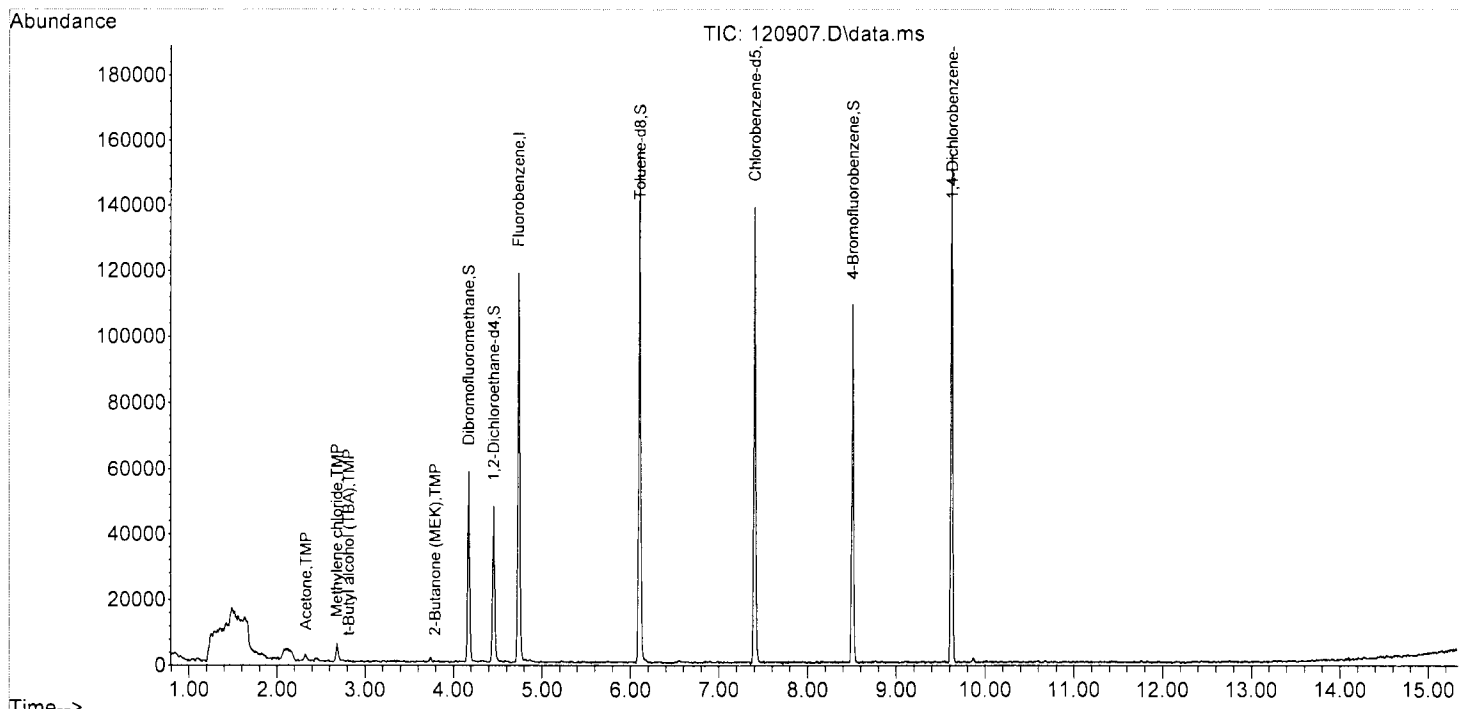
Quant Time: Dec 09 11:50:37 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	107629	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	70337	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37467	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	27131	7.913	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	79.10%
30) 1,2-Dichloroethane-d4	4.45	102	5438	8.462	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	84.60%
35) Toluene-d8	6.11	98	90602	9.365	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	93.70%
57) 4-Bromofluorobenzene	8.51	95	29628	13.050	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	130.50%
Target Compounds						
					Qvalue	
11) Acetone	2.33	58	725	4.506	ppb	91
14) Methylene chloride	2.68	84	2592	0.313	ppb	86
15) t-Butyl alcohol (TBA)	2.82	59	120	0.500	ppb	37
21) 2,2-Dichloropropane	3.73	77	92	Below Cal	#	43
24) 2-Butanone (MEK)	3.79	43	266	0.827	ppb	57
49] Ethylbenzene	7.54	91	82	Below Cal		99
51] m,p-Xylene	7.65	106	77	Below Cal		100
52] o-Xylene	8.02	106	25	Below Cal		86
-----						

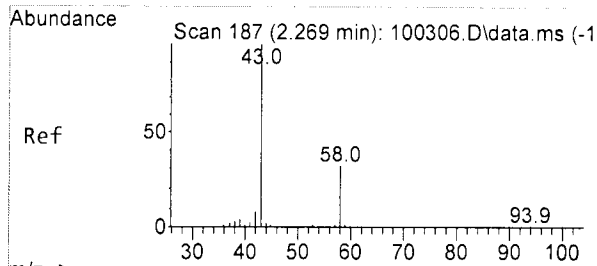
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120907.D  
 Acq On : 09 Dec 2022 11:15 am  
 Operator : lm  
 Sample : 02-2859 mb2  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 11:50:37 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

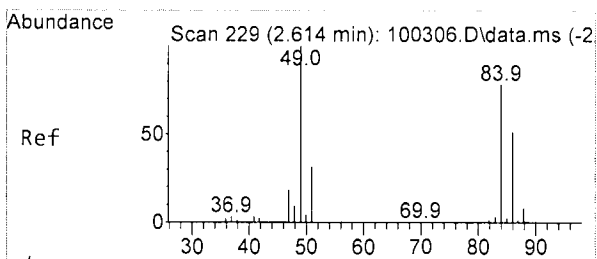
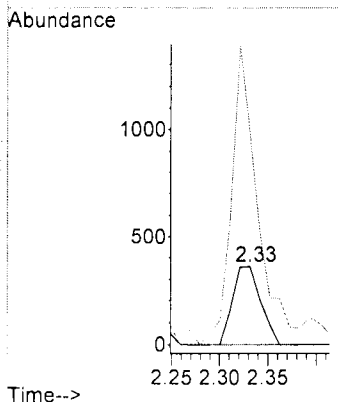
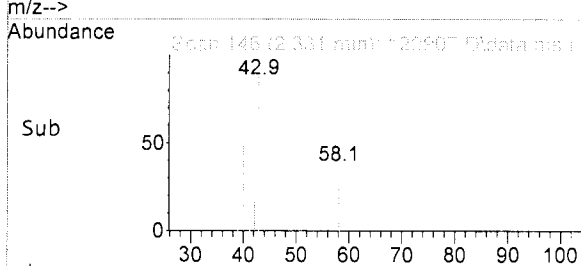
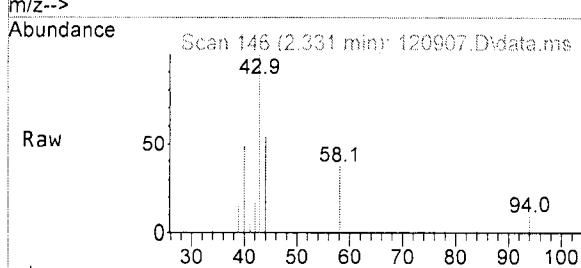






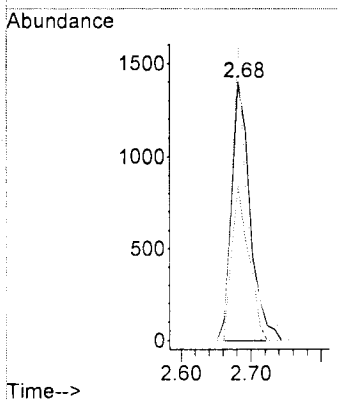
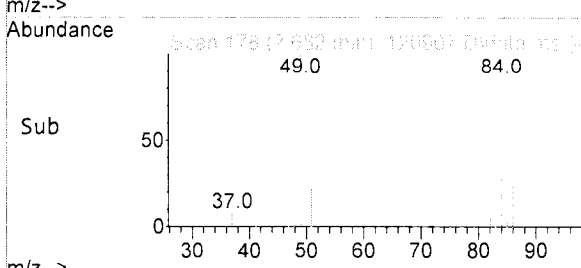
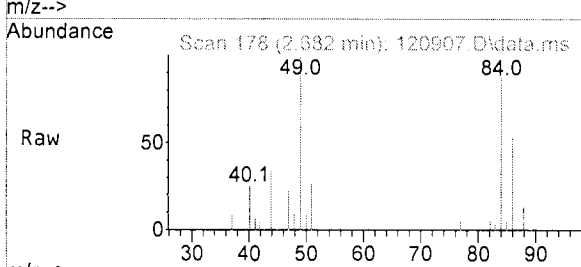
#11  
 Acetone  
 Concen: 4.506 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

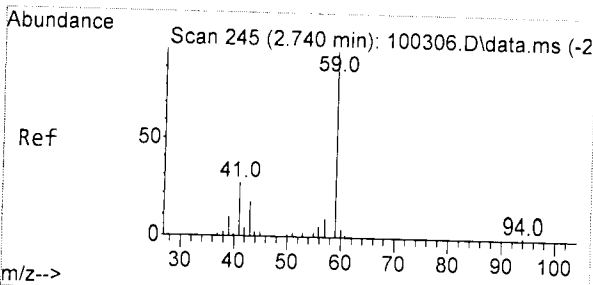
Tgt Ion: 58 Resp: 725  
 Ion Ratio Lower Upper  
 58 100  
 43 359.3 350.8 410.8



#14  
 Methylene chloride  
 Concen: 0.313 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

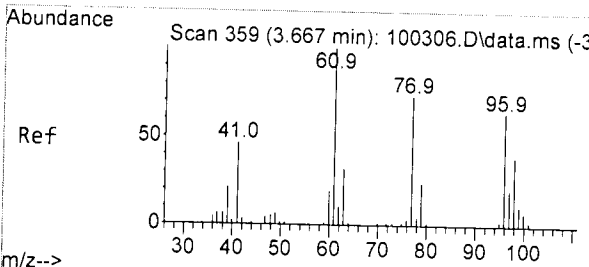
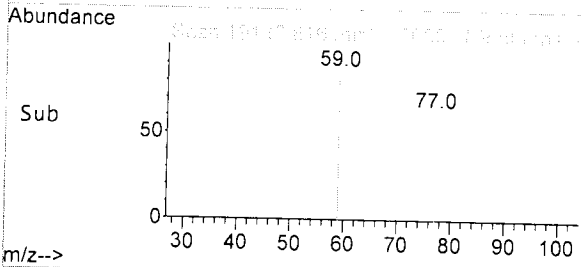
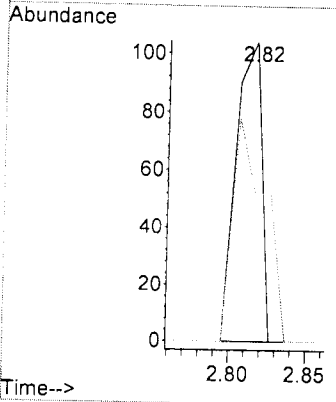
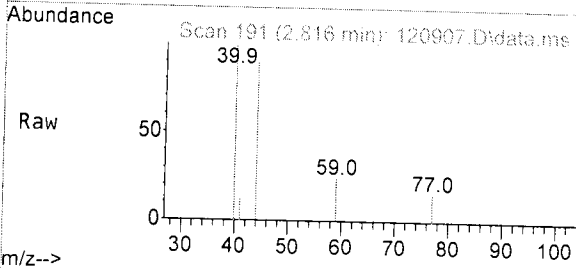
Tgt Ion: 84 Resp: 2592  
 Ion Ratio Lower Upper  
 84 100  
 86 60.2 41.2 101.2  
 49 114.4 69.2 129.2





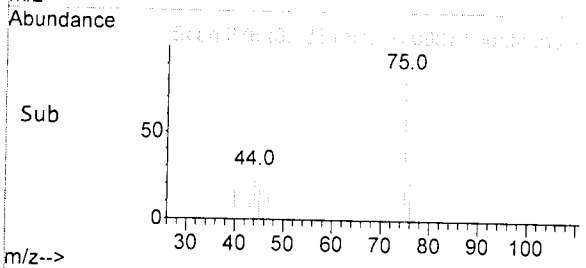
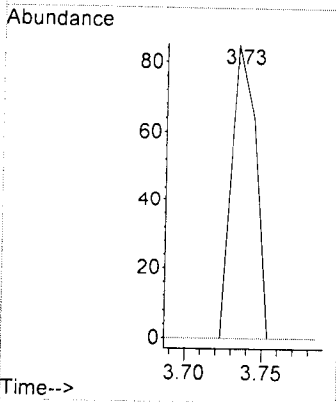
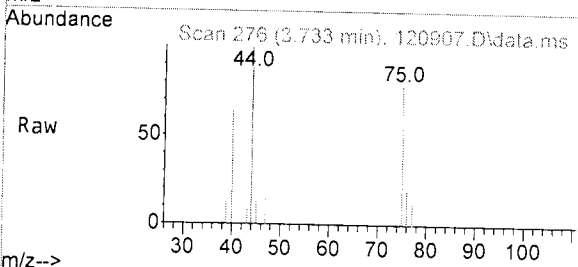
#15  
 t-Butyl alcohol (TBA)  
 Concen: 0.500 ppb  
 RT: 2.82 min Scan# 191  
 Delta R.T. 0.010 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

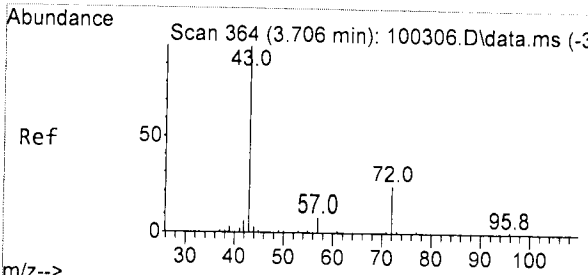
Tgt Ion: 59 Resp: 120  
 Ion Ratio Lower Upper  
 59 100  
 41 50.0 0.0 50.8



#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.73 min Scan# 276  
 Delta R.T. -0.031 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

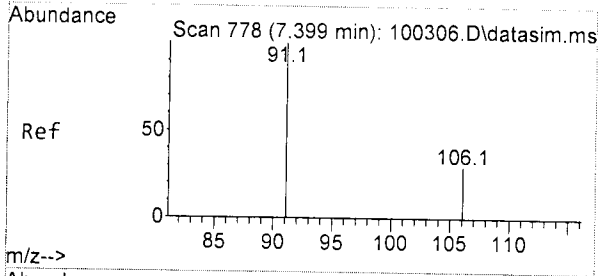
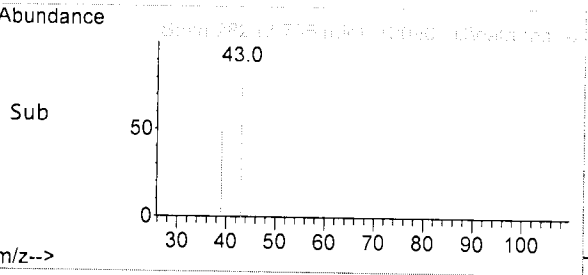
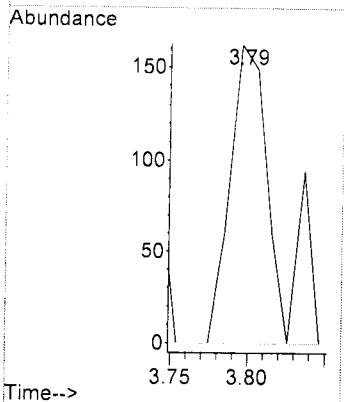
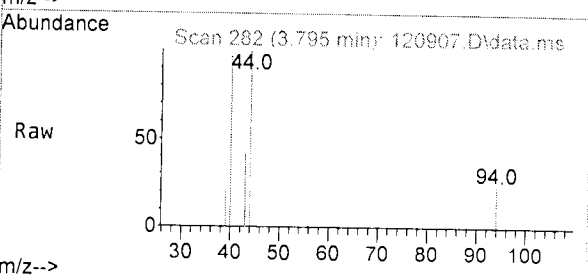
Tgt Ion: 77 Resp: 92  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 2.0 62.0#





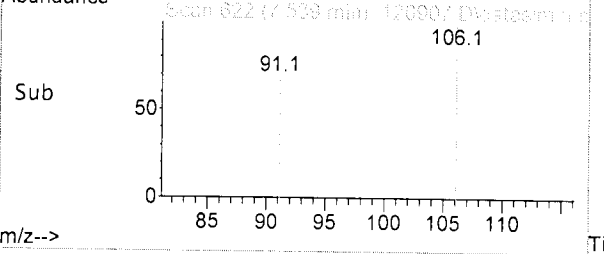
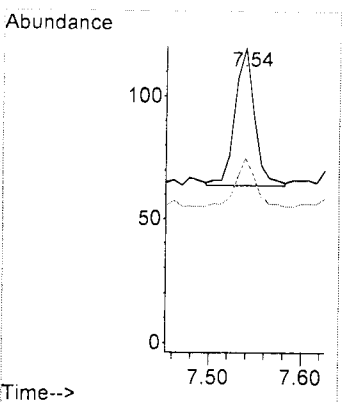
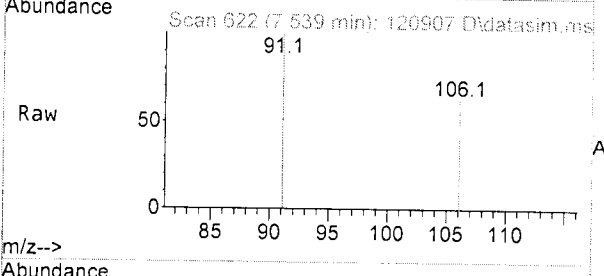
#24  
 2-Butanone (MEK)  
 Concen: 0.827 ppb  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.010 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

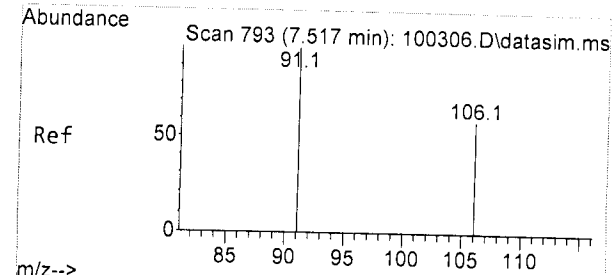
Tgt Ion	Resp	Lower	Upper
43	100		
72	0.0	0.0	54.9
57	0.0	0.0	28.8



#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. 0.000 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

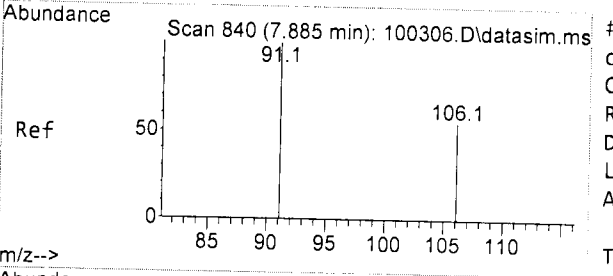
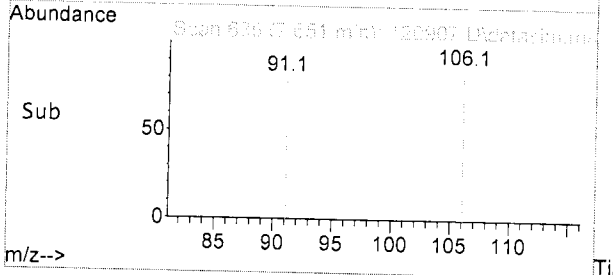
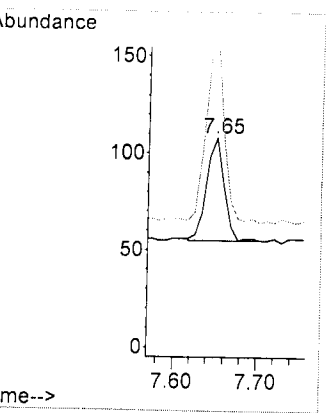
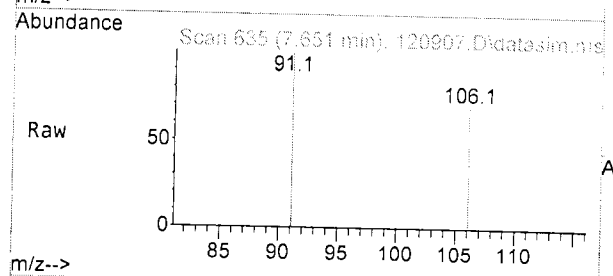
Tgt Ion	Resp	Lower	Upper
91	100		
106	36.4	7.1	67.1





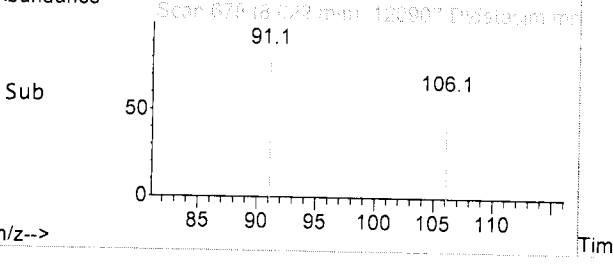
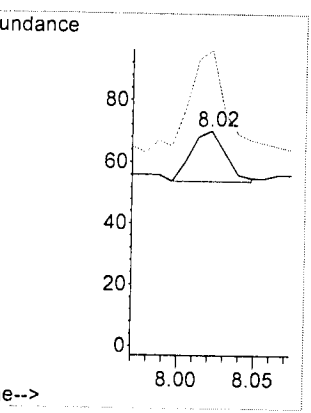
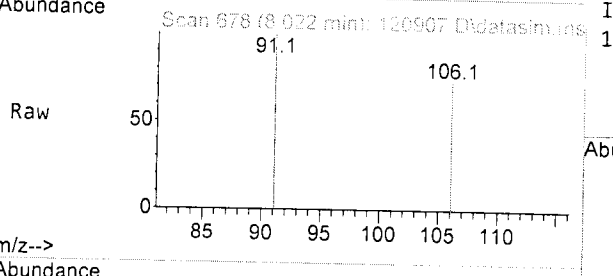
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

Tgt Ion:106 Resp: 77  
 Ion Ratio Lower Upper  
 106 100  
 91 167.9 138.1 198.1



#52  
 o-Xylene  
 Concen: Below Cal  
 RT: 8.02 min Scan# 678  
 Delta R.T. -0.000 min  
 Lab File: 120907.D  
 Acq: 09 Dec 2022 11:15 am

Tgt Ion:106 Resp: 25  
 Ion Ratio Lower Upper  
 106 100  
 91 193.8 143.9 203.9



Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120907.D  
 Acq On : 09 Dec 2022 11:15 am  
 Operator : lm  
 Sample : 02-2859 mb2  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 11:50:37 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.73	96	107629	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	70337	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	37467	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.17	113	27131	7.913	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	79.10%	
30) 1,2-Dichloroethane-d4	4.45	102	5438	8.462	ppb	0.00	
Spiked Amount	10.000	Range	71 - 132	Recovery	=	84.60%	
35) Toluene-d8	6.11	98	90602	9.365	ppb	0.00	
Spiked Amount	10.000	Range	68 - 139	Recovery	=	93.70%	
57) 4-Bromofluorobenzene	8.51	95	29628	13.050	ppb	0.00	
Spiked Amount	10.000	Range	62 - 136	Recovery	=	130.50%	
Target Compounds							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.25	50	2025	N.D.			
6) Vinyl chloride	0.00		0	N.D.	d		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	0.00		0	N.D.			
11) Acetone	2.33	58	725	4.506	ppb	91	
12) 1,1-Dichloroethene	0.00		0	N.D.	d		
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.68	84	2592	0.313	ppb	86	
15) t-Butyl alcohol (TBA)	2.82	59	120	0.500	ppb	37	
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17) trans-1,2-Dichloroethene	0.00		0	N.D.			
18) Diisopropyl ether (DIPE)	3.40	45	35	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.73	77	92	Below Cal	#	43	
22) cis-1,2-Dichloroethene	0.00		0	N.D.			
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.79	43	266	0.827	ppb	57	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26) 1,2-Dichloroethane (EDC)	4.52	62	68	N.D.			
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31) Benzene	0.00		0	N.D.			
32) Trichloroethene	0.00		0	N.D.	d		
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120907.D  
 Acq On : 09 Dec 2022 11:15 am  
 Operator : lm  
 Sample : 02-2859 mb2  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

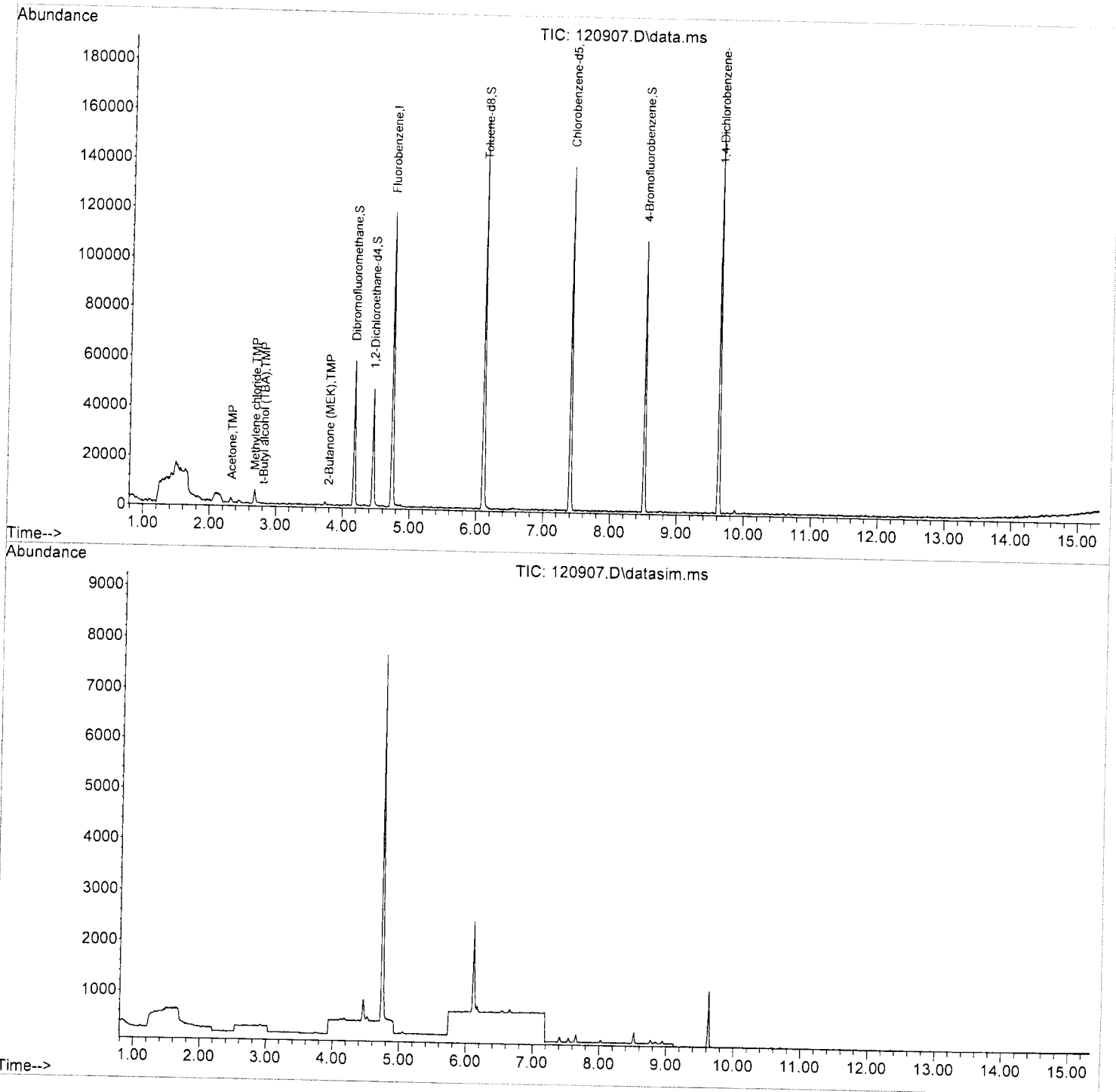
Quant Time: Dec 09 11:50:37 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.	
38) cis-1,3-Dichloropropene	0.00		0	N.D.	
40) Toluene	6.16	92	52	N.D.	
41) trans-1,3-Dichloropropene	0.00		0	N.D.	
42) 1,1,2-Trichloroethane	6.53	83	47	N.D.	
43) 2-Hexanone	0.00		0	N.D. d	
44) 1,3-Dichloropropane	0.00		0	N.D.	
45) Tetrachloroethene	6.65	164	35	N.D.	
46) Dibromochloromethane	6.90	129	46	N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
48) Chlorobenzene	7.41	112	73	N.D.	
49] Ethylbenzene	7.54	91	82	Below Cal	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.	
51] m,p-Xylene	7.65	106	77	Below Cal	100
52] o-Xylene	8.02	106	25	Below Cal	86
53) Styrene	8.03	104	26	N.D.	
54) Isopropylbenzene	8.37	105	35	N.D.	
55) Bromoform	0.00		0	N.D.	
58) n-Propylbenzene	8.76	91	191	N.D.	
59) Bromobenzene	0.00		0	N.D.	
60) 1,3,5-Trimethylbenzene	8.84	105	95	N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
62) 1,2,3-Trichloropropane	0.00		0	N.D. d	
63) 2-Chlorotoluene	8.76	91	191	N.D.	
64) 4-Chlorotoluene	8.76	91	191	N.D.	
65) tert-Butylbenzene	0.00		0	N.D.	
66) 1,2,4-Trimethylbenzene	9.31	105	147	N.D.	
67) sec-Butylbenzene	9.31	105	147	N.D.	
68) p-Isopropyltoluene	9.61	119	23	N.D.	
69) 1,3-Dichlorobenzene	9.64	146	48	N.D.	
70) 1,4-Dichlorobenzene	9.64	146	48	N.D.	
71) 1,2-Dichlorobenzene	0.00		0	N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.	
73) 1,2,4-Trichlorobenzene	11.59	180	22	N.D.	
74) Hexachlorobutadiene	0.00		0	N.D.	
75) Naphthalene	11.83	128	132	N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS13\12-09-22\  
 Data File : 120907.D  
 Acq On : 09 Dec 2022 11:15 am  
 Operator : lm  
 Sample : 02-2859 mb2  
 Misc : water  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 09 11:50:37 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



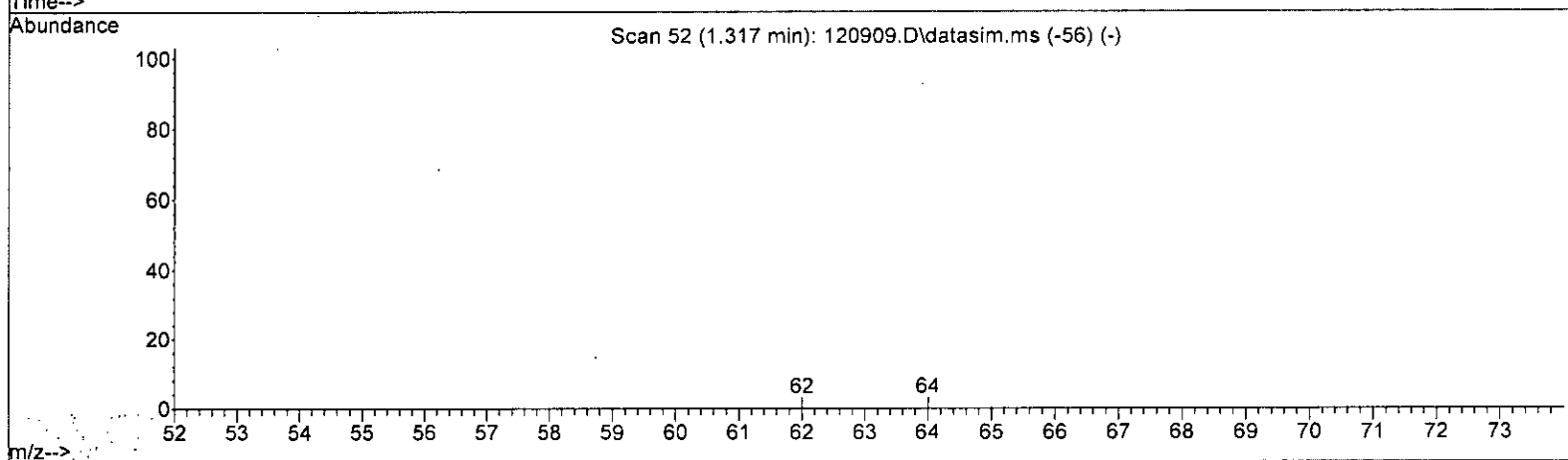
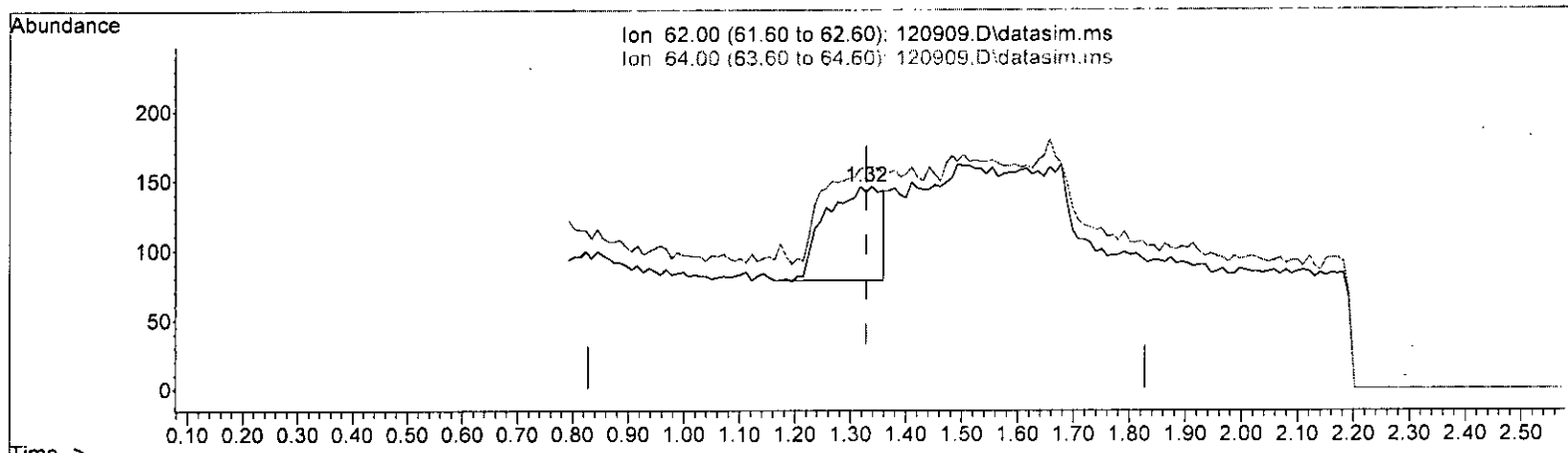
**EPA 8260D**  
**Sample Data**



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120909.D  
 Acq On : 09 Dec 2022 12:02 pm  
 Operator : lm  
 Sample : 212113-01 nr  
 Misc : water  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:50 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



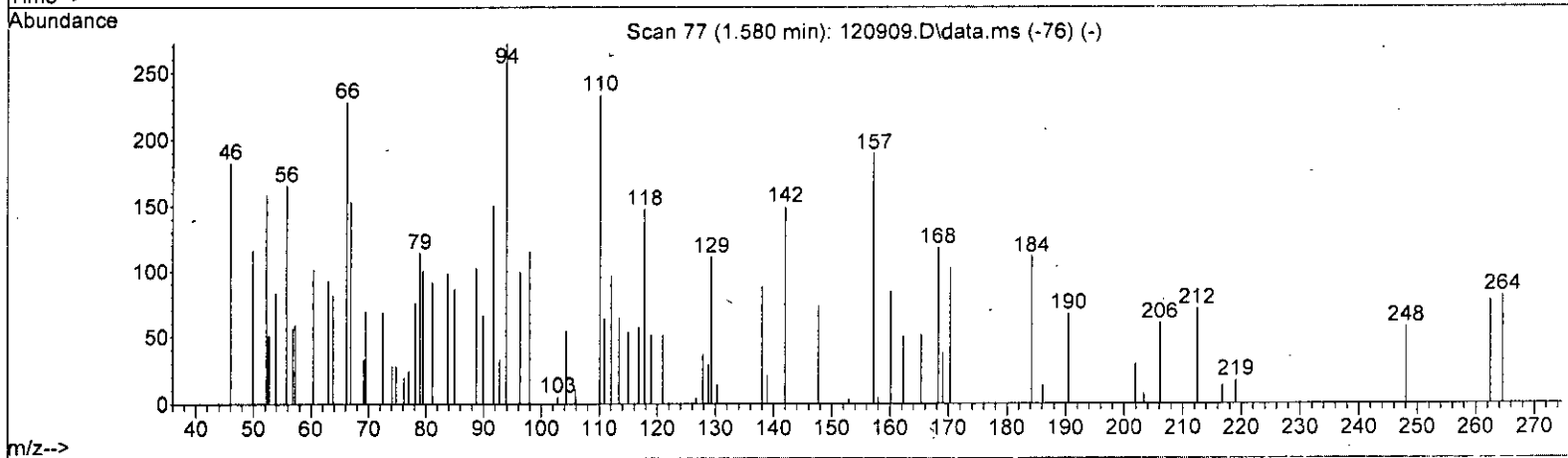
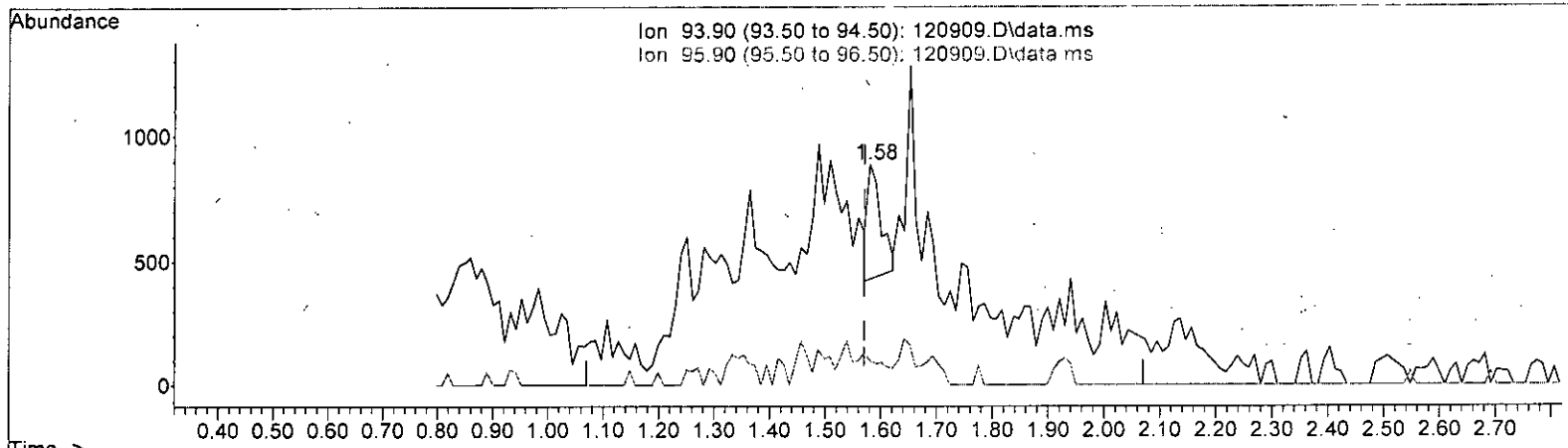
TIC: 120909.D\data.ms

(6) Vinyl chloride (TMP)			
1.317min	(-0.011)	0.116	ppb
response	467		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	30.20	80.60	#
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120909.D  
 Acq On : 09 Dec 2022 12:02 pm  
 Operator : lm  
 Sample : 212113-01 rr  
 Misc : water  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:50 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120909.D\data.ms

(7) Bromomethane (TMP)

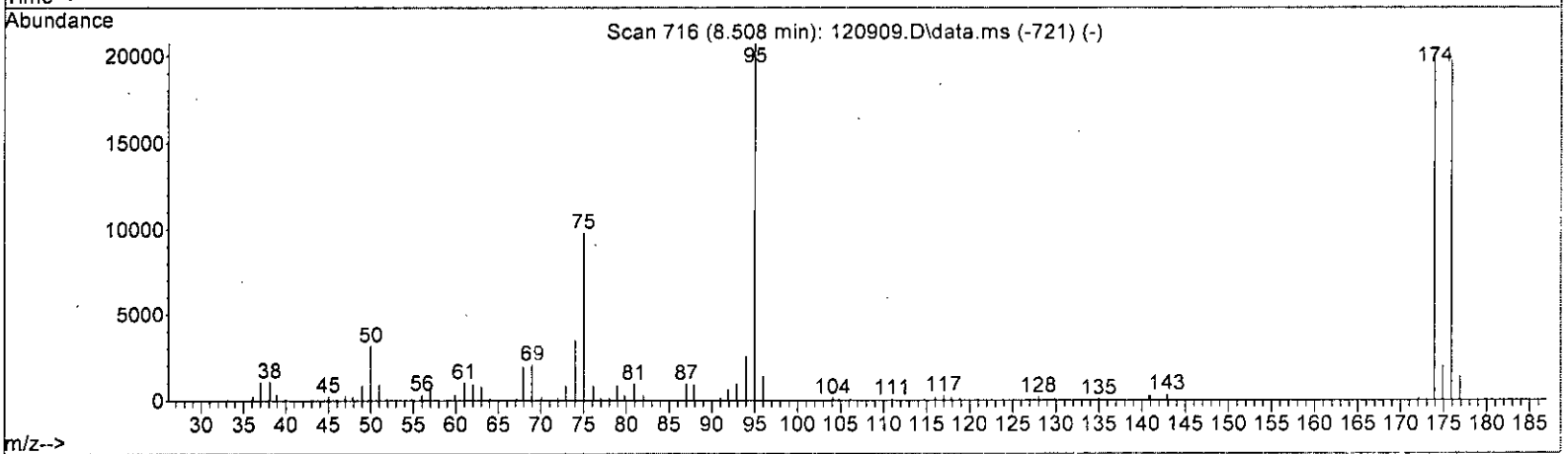
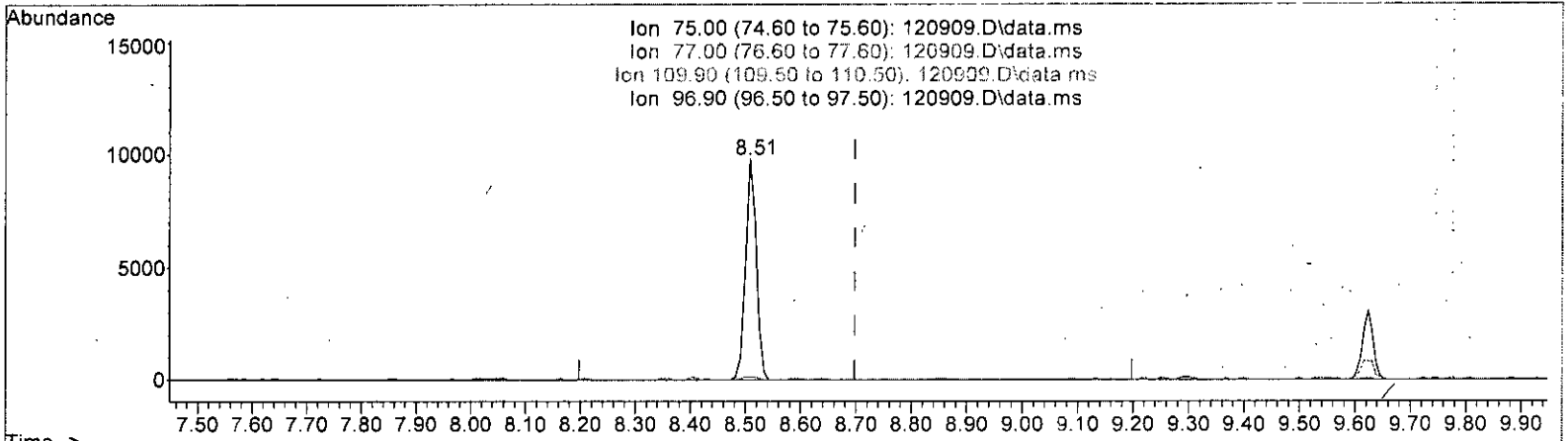
1.580min (+ 0.010) 0.183 ppb

response	759
Ion	Exp% Act%
93.90	100.00 100.00
95.90	93.10 8.47#
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120909.D  
 Acq On : 09 Dec 2022 12:02 pm  
 Operator : lm  
 Sample : 212113-01 rr  
 Misc : water  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:50 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120909.D\data.ms

(62) 1,2,3-Trichloropropane (TMP)

8.508min (-0.190) 10.315 ppb

response	13220
Ion	Exp% Act%
75.00	100.00 100.00
77.00	32.60 1.24#
109.90	53.40 0.00#
96.90	24.30 0.00

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120909.D  
 Acq On : 09 Dec 2022 12:02 pm  
 Operator : lm  
 Sample : 212113-01 rr  
 Misc : water  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS13

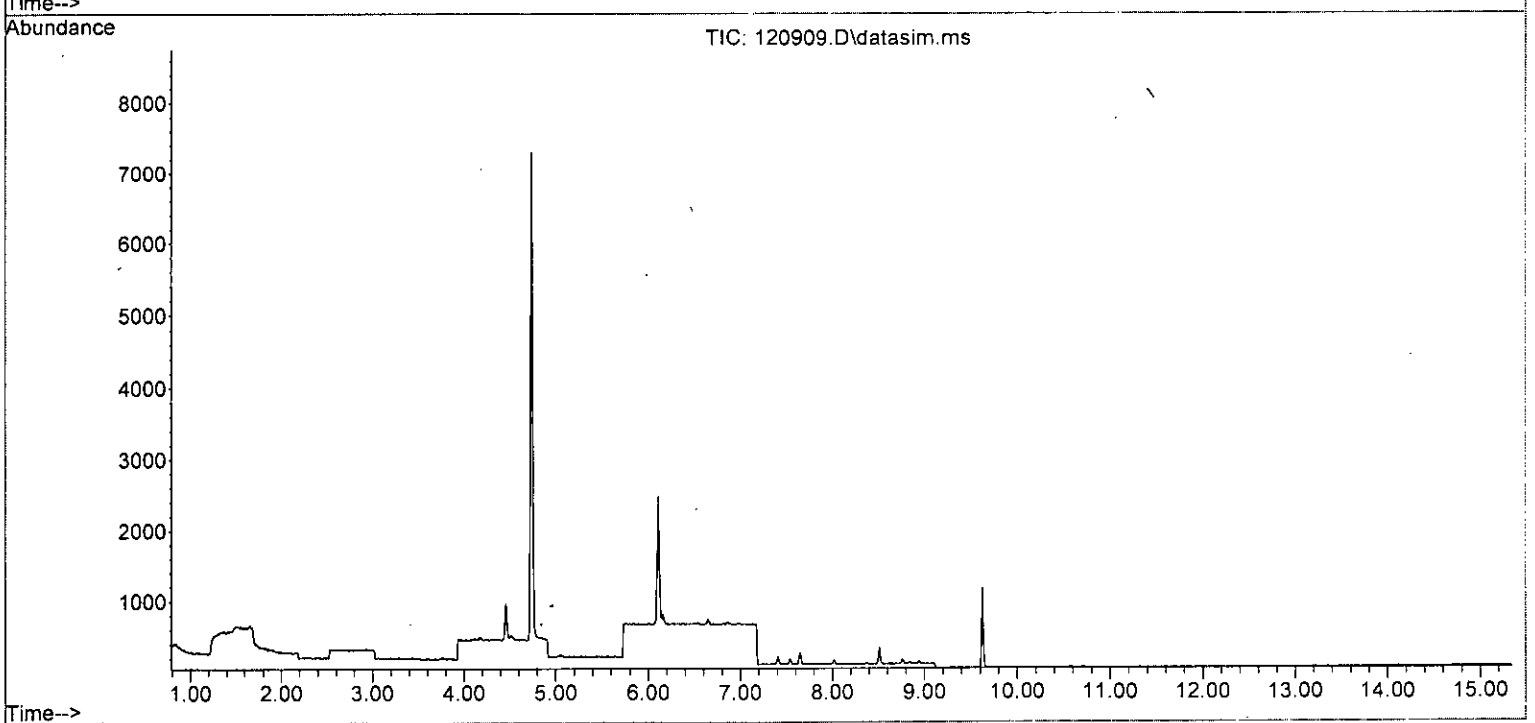
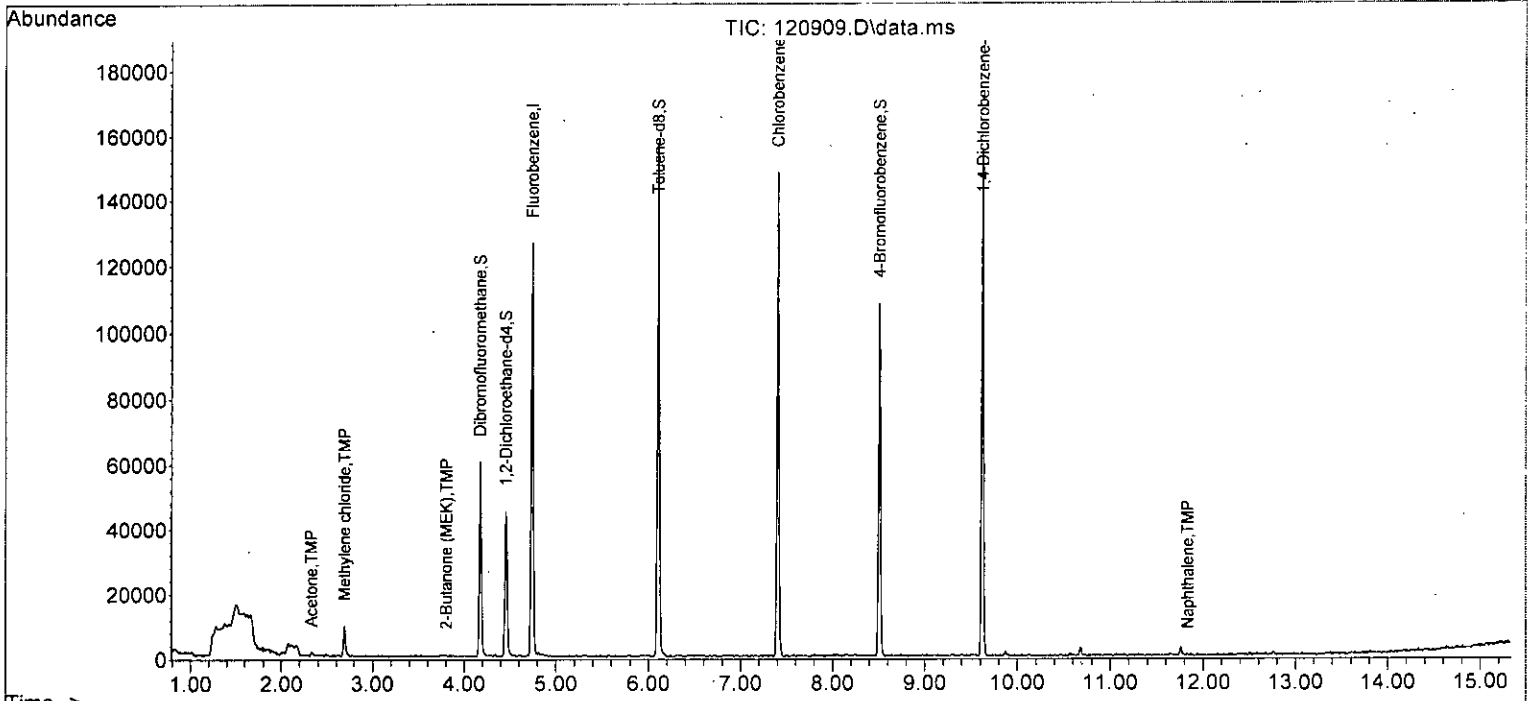
Quant Time: Dec 12 07:58:50 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

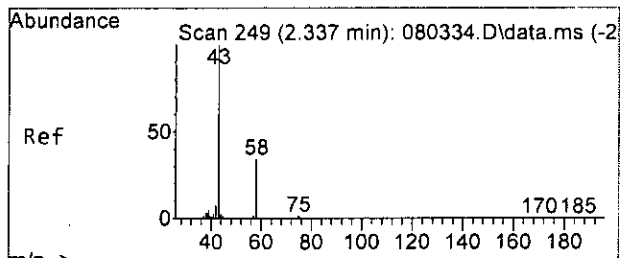
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	107587	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	72159	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37986	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	27922	8.147	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	81.50%
30) 1,2-Dichloroethane-d4	4.45	102	5684	8.848	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	88.50%
35) Toluene-d8	6.10	98	90631	9.372	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	93.70%
57) 4-Bromofluorobenzene	8.51	95	28818	12.520	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	125.20%
Target Compounds						
11) Acetone	2.33	58	360	3.217	ppb #	66
14) Methylene chloride	2.69	84	4091	0.894	ppb	89
21) 2,2-Dichloropropane	3.76	77	176	Below Cal	#	43
24) 2-Butanone (MEK)	3.80	43	434	0.963	ppb	57
49] Ethylbenzene	7.54	91	85	Below Cal		99
51] m,p-Xylene	7.65	106	79	Below Cal		91
52] o-Xylene	8.02	106	32	Below Cal		85
75) Naphthalene	11.83	128	208	0.028	ppb	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
Data File : 120909.D  
Acq On : 09 Dec 2022 12:02 pm  
Operator : lm  
Sample : 212113-01 rr  
Misc : water  
ALS Vial : 5 Sample Multiplier: 1  
InstName : GCMS13

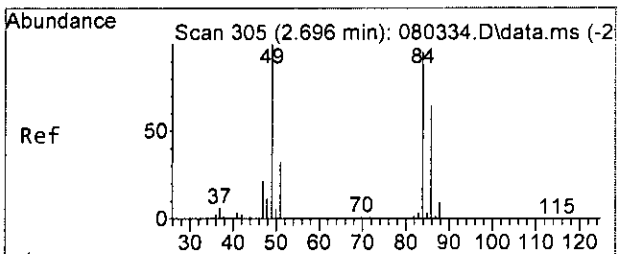
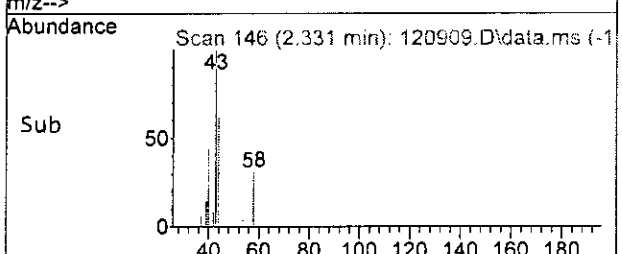
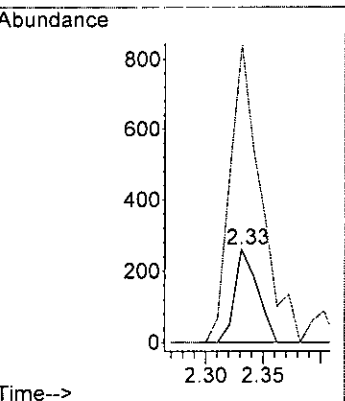
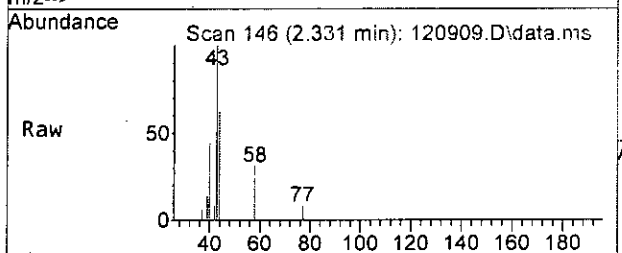
Quant Time: Dec 12 07:58:50 2022  
Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Thu Dec 01 12:09:50 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080322.M





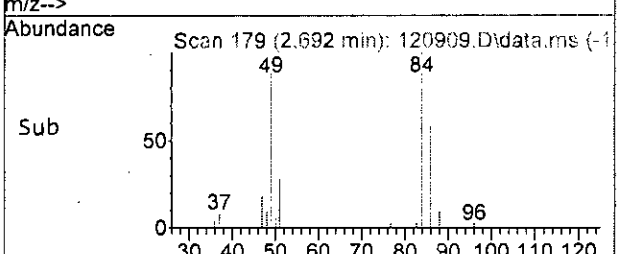
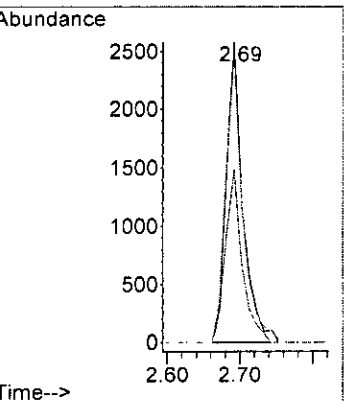
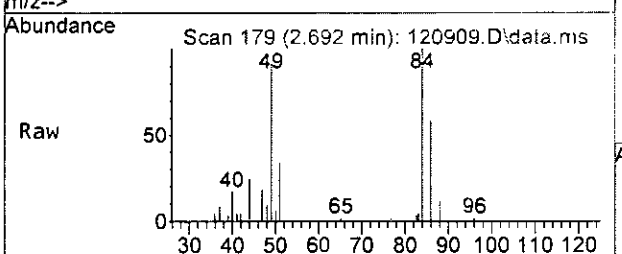
#11  
 Acetone  
 Concen: 3.217 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 120909.D  
 Acq: 09 Dec 2022 12:02 pm

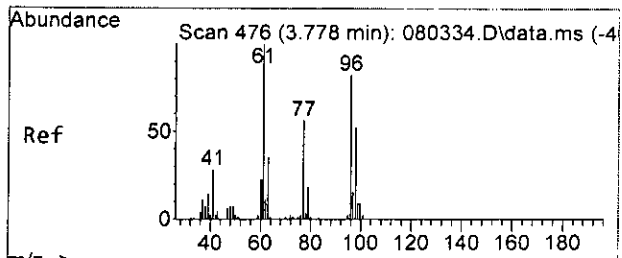
Tgt Ion: 58 Resp: 360  
 Ion Ratio Lower Upper  
 58 100  
 43 458.1 350.8 410.8#



#14  
 Methylene chloride  
 Concen: 0.894 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 120909.D  
 Acq: 09 Dec 2022 12:02 pm

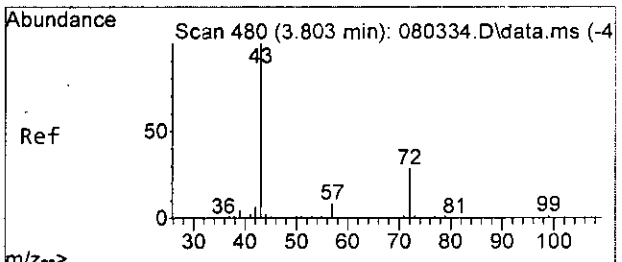
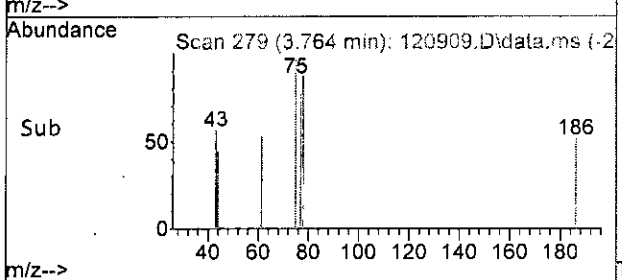
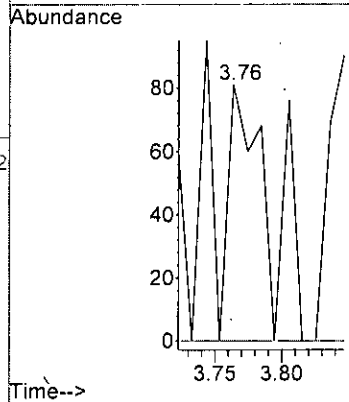
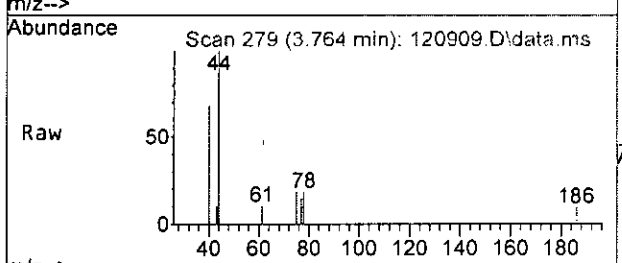
Tgt Ion: 84 Resp: 4091  
 Ion Ratio Lower Upper  
 84 100  
 86 57.6 41.2 101.2  
 49 92.8 69.2 129.2





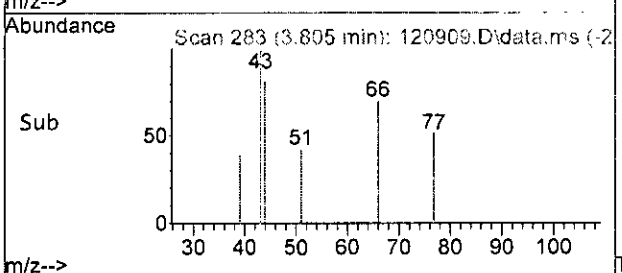
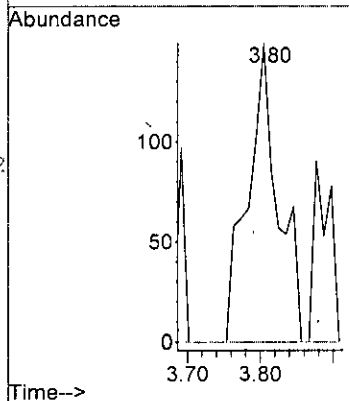
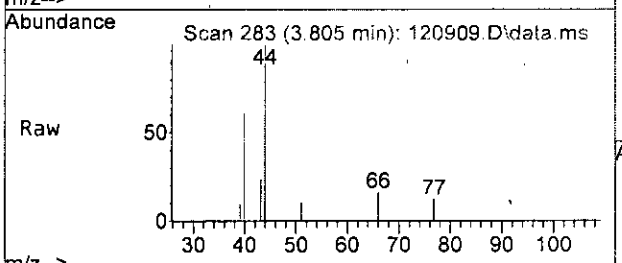
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.76 min Scan# 279  
 Delta R.T. -0.000 min  
 Lab File: 120909.D  
 Acq: 09 Dec 2022 12:02 pm

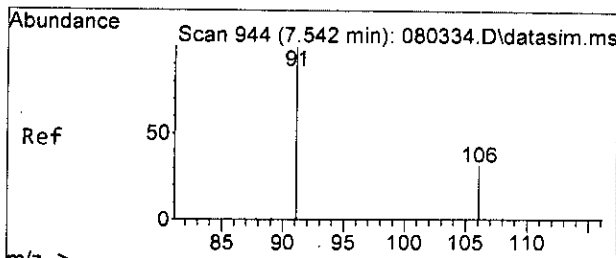
Tgt Ion: 77 Resp: 176  
 Ion Ratio Lower Upper  
 77 100 - -  
 97 0.0 2.0 62.0#



#24  
 2-Butanone (MEK)  
 Concen: 0.963 ppb  
 RT: 3.80 min Scan# 283  
 Delta R.T. 0.020 min  
 Lab File: 120909.D  
 Acq: 09 Dec 2022 12:02 pm

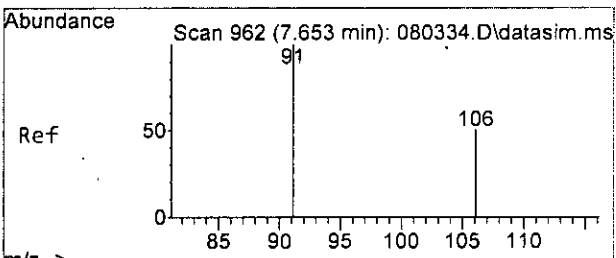
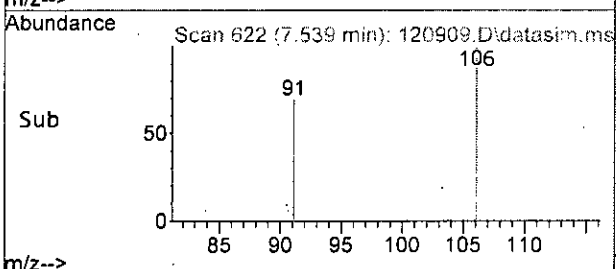
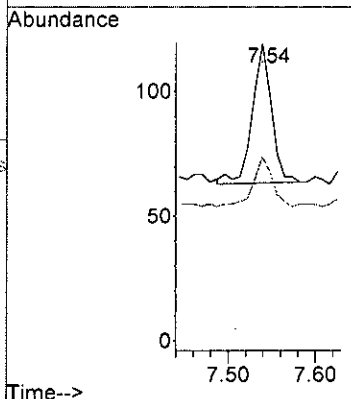
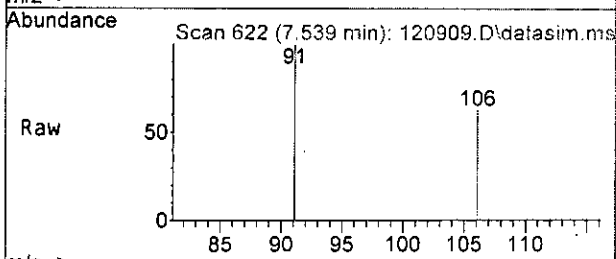
Tgt Ion: 43 Resp: 434  
 Ion Ratio Lower Upper  
 43 100 - -  
 72 0.0 0.0 54.9  
 57 0.0 0.0 28.8





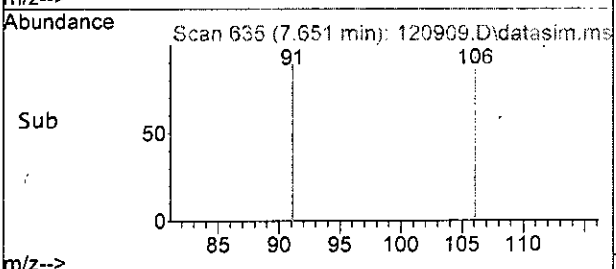
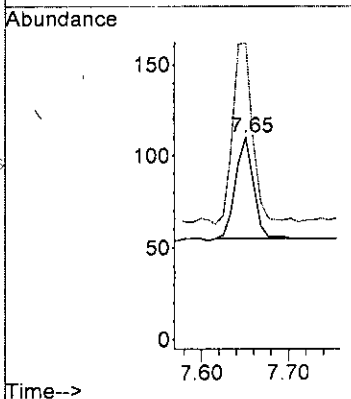
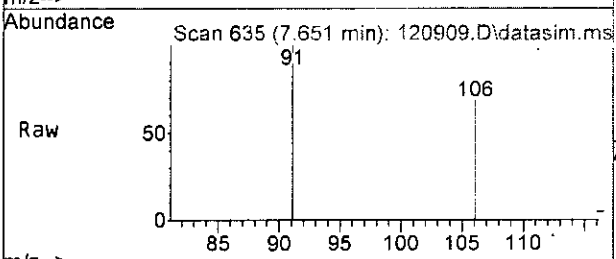
#49  
Ethylbenzene  
Concen: Below Cal  
RT: 7.54 min Scan# 622  
Delta R.T. -0.000 min  
Lab File: 120909.D  
Acq: 09 Dec 2022 12:02 pm

Tgt Ion: 91 Resp: 85  
Ion Ratio Lower Upper  
91 100  
106 36.4 7.1 67.1

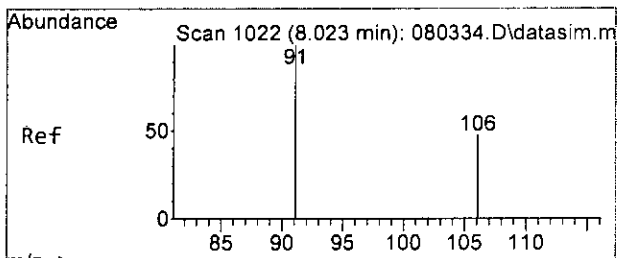


#51  
m,p-Xylene  
Concen: Below Cal  
RT: 7.65 min Scan# 635  
Delta R.T. -0.000 min  
Lab File: 120909.D  
Acq: 09 Dec 2022 12:02 pm

Tgt Ion: 106 Resp: 79  
Ion Ratio Lower Upper  
106 100  
91 180.0 138.1 198.1

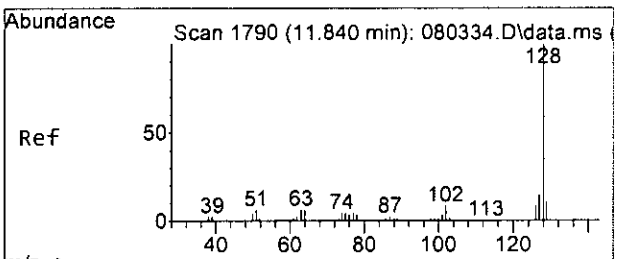
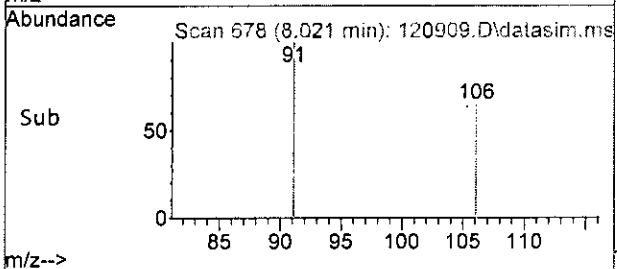
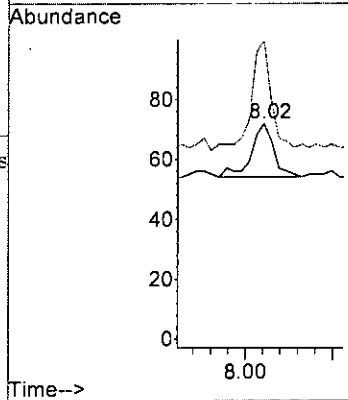
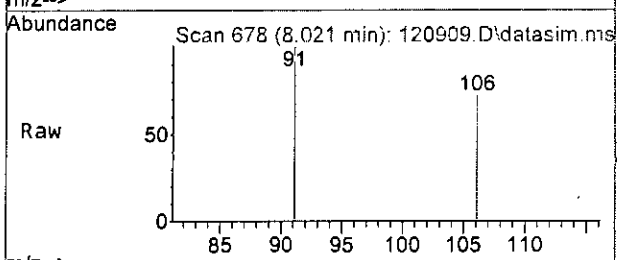






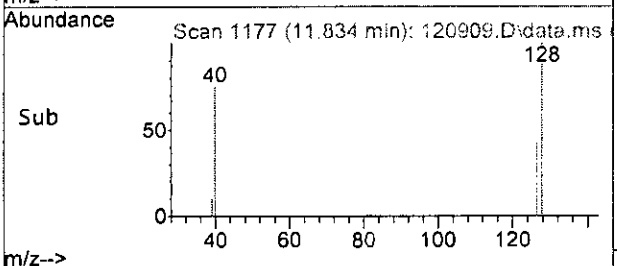
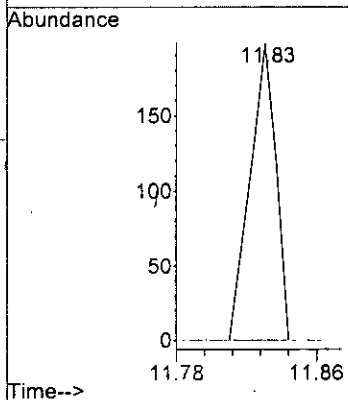
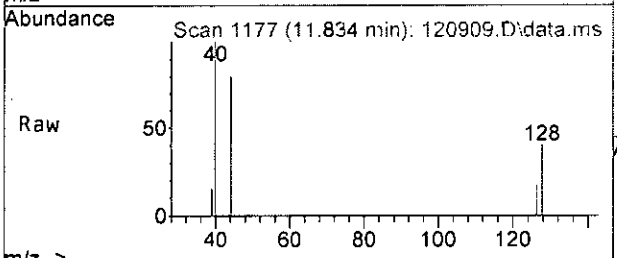
#52  
 o-Xylene  
 Concen: Below Cal  
 RT: 8.02 min Scan# 678  
 Delta R.T. -0.001 min  
 Lab File: 120909.D  
 Acq: 09 Dec 2022 12:02 pm

Tgt Ion: 106 Resp: 32  
 Ion Ratio Lower Upper  
 106 100  
 91 194.4 143.9 203.9



#75  
 Naphthalene  
 Concen: 0.028 ppb  
 RT: 11.83 min Scan# 1177  
 Delta R.T. -0.000 min  
 Lab File: 120909.D  
 Acq: 09 Dec 2022 12:02 pm

Tgt Ion: 128 Resp: 208  
 Ion Ratio Lower Upper  
 128 100  
 129 0.0 0.0 41.5  
 127 0.0 0.0 44.0



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120909.D  
 Acq On : 09 Dec 2022 12:02 pm  
 Operator : lm  
 Sample : 212113-01 rr  
 Misc : water  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:58:50 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 Qlast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	107587	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	72159	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37986	10.000	ppb	0.00

System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	27922	8.147	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	81.50%
30) 1,2-Dichloroethane-d4	4.45	102	5684	8.848	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	88.50%
35) Toluene-d8	6.10	98	90631	9.372	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	93.70%
57) 4-Bromofluorobenzene	8.51	95	28818	12.520	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	125.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Ethanol	2.36	45	35	No Calib		
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.26	50	1156	N.D.		
6) Vinyl chloride	0.00		0	N.D. d		
7) Bromomethane	0.00		0	N.D. d		
8) Chloroethane	0.00		0	N.D.		
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	2.36	45	35	No Calib		
11) Acetone	2.33	58	360	3.217	ppb #	66
12) 1,1-Dichloroethene	0.00		0	N.D.		
13) Hexane	0.00		0	N.D.		
14) Methylene chloride	2.69	84	4091	0.894	ppb	89
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17) trans-1,2-Dichloroethene	0.00		0	N.D.		
18) Diisopropyl ether (DIPE)	3.31	45	33	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.76	77	176	Below Cal	#	43
22) cis-1,2-Dichloroethene	0.00		0	N.D.		
23) Chloroform	0.00		0	N.D.		
24) 2-Butanone (MEK)	3.80	43	434	0.963	ppb	57
25) t-Amyl methyl ether (T...)	0.00		0	N.D.		
26) 1,2-Dichloroethane (EDC)	4.53	62	68	N.D.		
27) 1,1,1-Trichloroethane	0.00		0	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31) Benzene	0.00		0	N.D.		
32) Trichloroethene	0.00		0	N.D.		
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120909.D  
 Acq On : 09 Dec 2022 12:02 pm  
 Operator : lm  
 Sample : 212113-01 rr  
 Misc : water  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS13

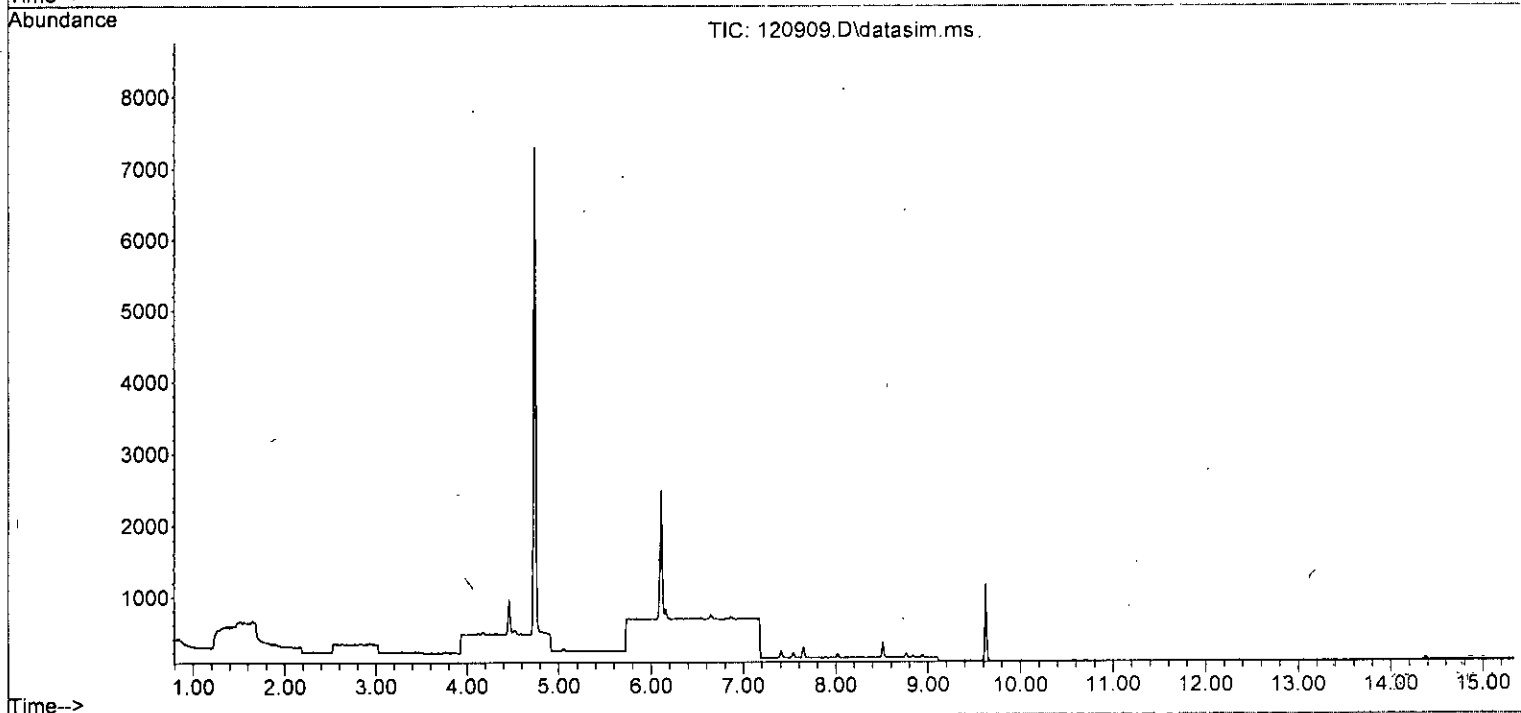
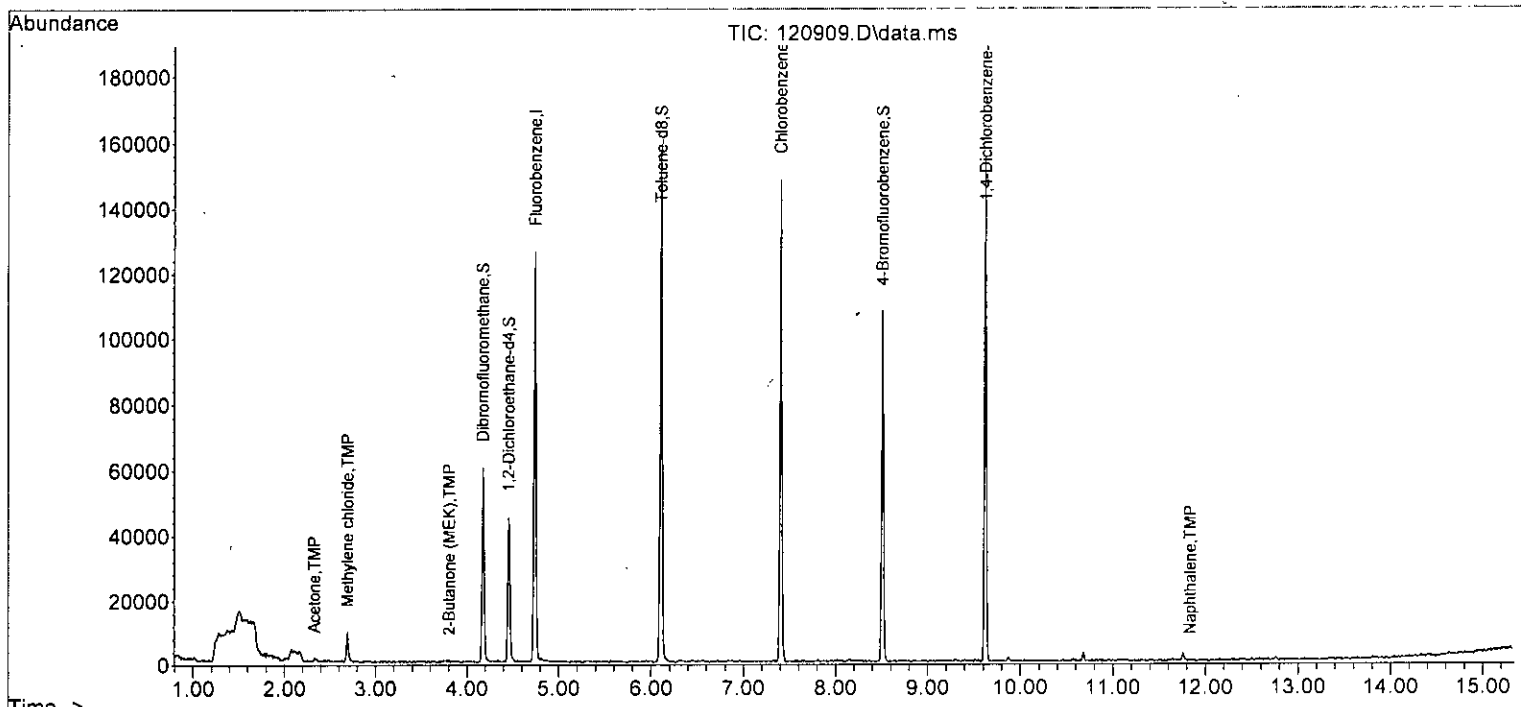
Quant Time: Dec 12 07:58:50 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40) Toluene	6.16	92	61		N.D.	
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.53	83	37		N.D.	
43) 2-Hexanone	6.72	43	41		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45) Tetrachloroethene	6.65	164	29		N.D.	
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	85	Below Cal		99
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.65	106	79	Below Cal		91
52] o-Xylene	8.02	106	32	Below Cal		85
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	8.51	105	36		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.77	91	89		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D.	d
63) 2-Chlorotoluene	8.77	91	89		N.D.	
64) 4-Chlorotoluene	8.95	91	29		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.29	105	209		N.D.	
67) sec-Butylbenzene	9.29	105	209		N.D.	
68) p-Isopropyltoluene	9.61	119	92		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.83	128	208	0.028 ppb		68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
Data File : 120909.D  
Acq On : 09 Dec 2022 12:02 pm  
Operator : lm  
Sample : 212113-01 rr  
Misc : water  
ALS Vial : 5 Sample Multiplier: 1  
InstName : GCMS13

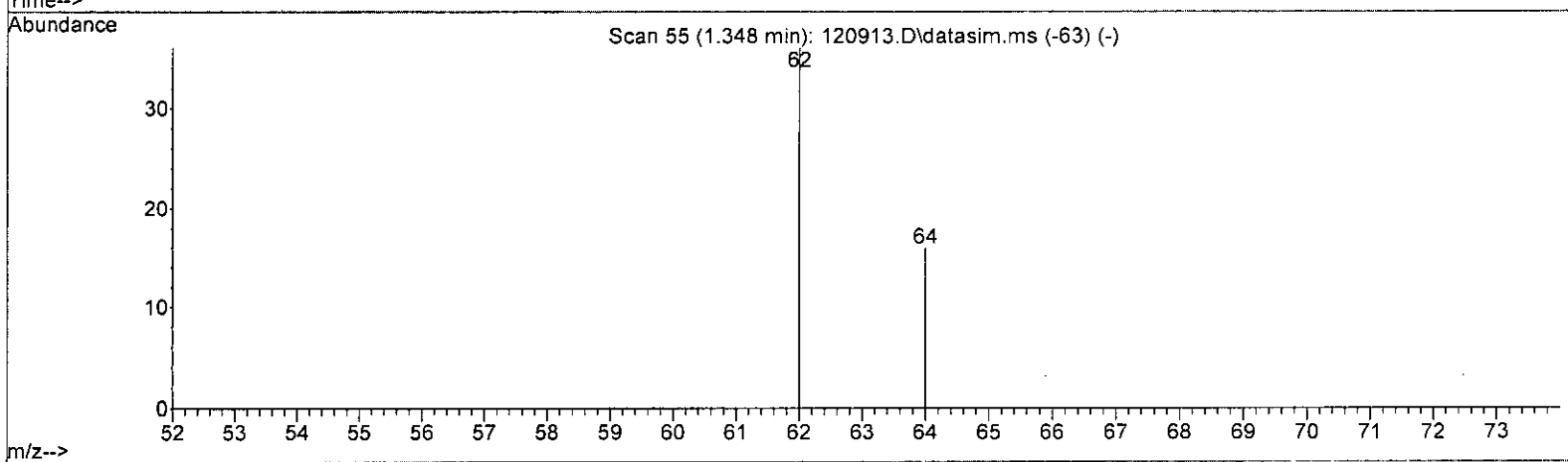
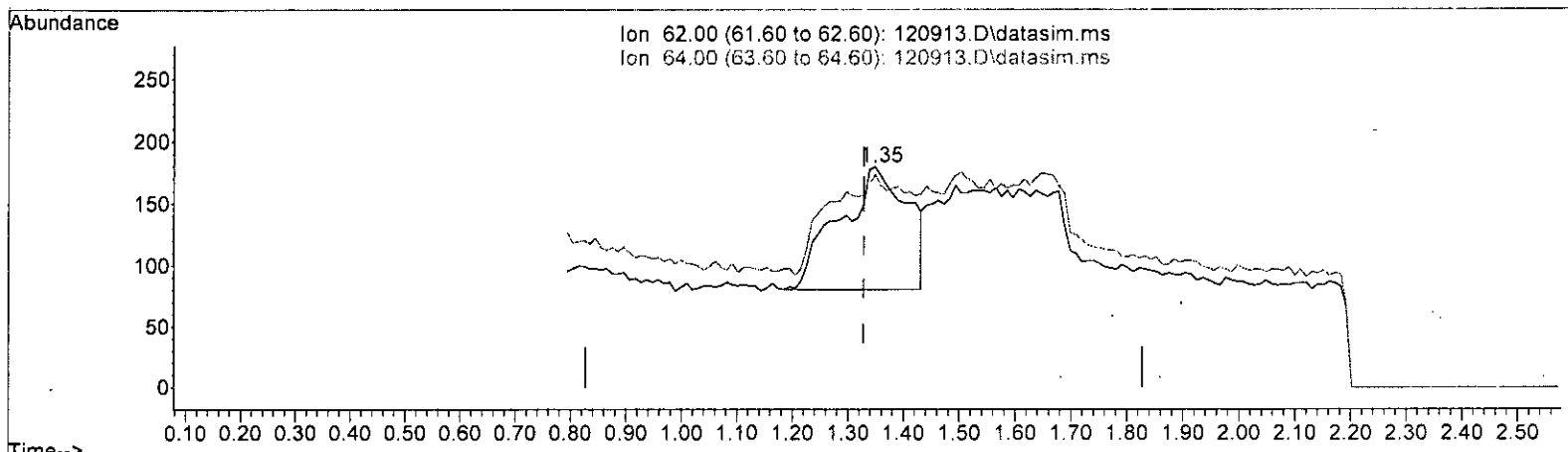
Quant Time: Dec 12 07:58:50 2022  
Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
QLast Update : Thu Dec 01 12:09:50 2022  
Response via : Initial Calibration  
DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120913.D  
 Acq On : 09 Dec 2022 01:35 pm  
 Operator : lm  
 Sample : 212113-02  
 Misc : water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:06 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120913.D\data.ms

YA 12/15/22

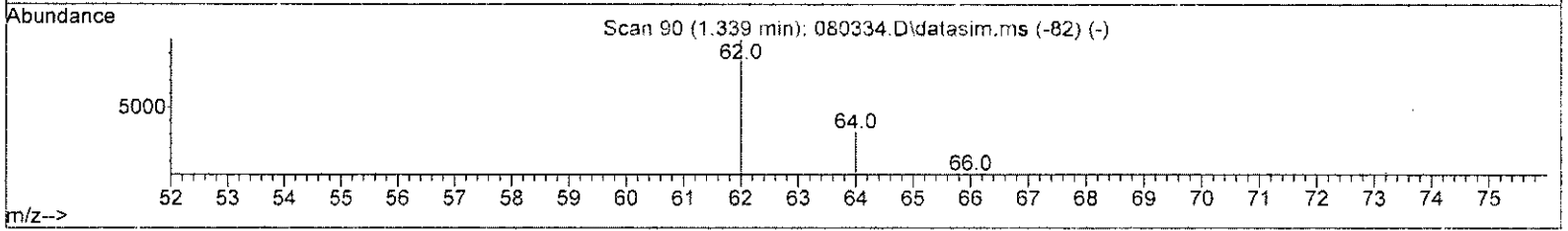
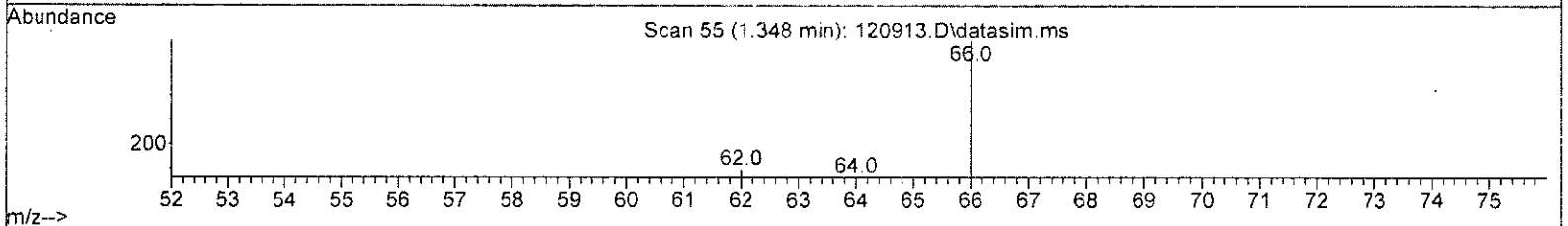
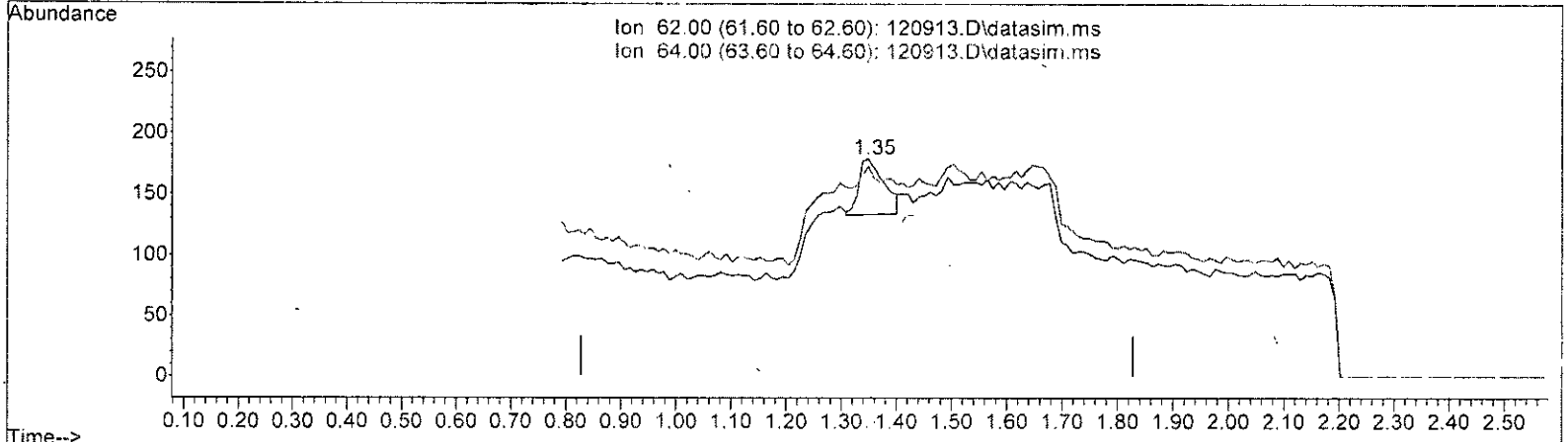
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	16.77#
0.00	0.00	0.00
0.00	0.00	0.00

(6) Vinyl chloride (TMP)  
 1.348min (+ 0.020) 0.232 ppb  
 response 844

Quantitation Report (Qedit)

Data Path : S:\Proc\_GCMS13\12-09-22\  
 Data File : 120913.D  
 Acq On : 09 Dec 2022 01:35 pm  
 Operator : lm  
 Sample : 212113-02  
 Misc : water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:06 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120913.D\data.ms

(6) Vinyl chloride (TMP)

1.348min (+ 0.020) 0.040 ppb m

response 147

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	96.65#
0.00	0.00	0.00
0.00	0.00	0.00

*YA 12/15/22*

Data Path : S:\Proc\_GCMS13\12-09-22\  
 Data File : 120913.D  
 Acq On : 09 Dec 2022 01:35 pm  
 Operator : lm  
 Sample : 212113-02  
 Misc : water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS13

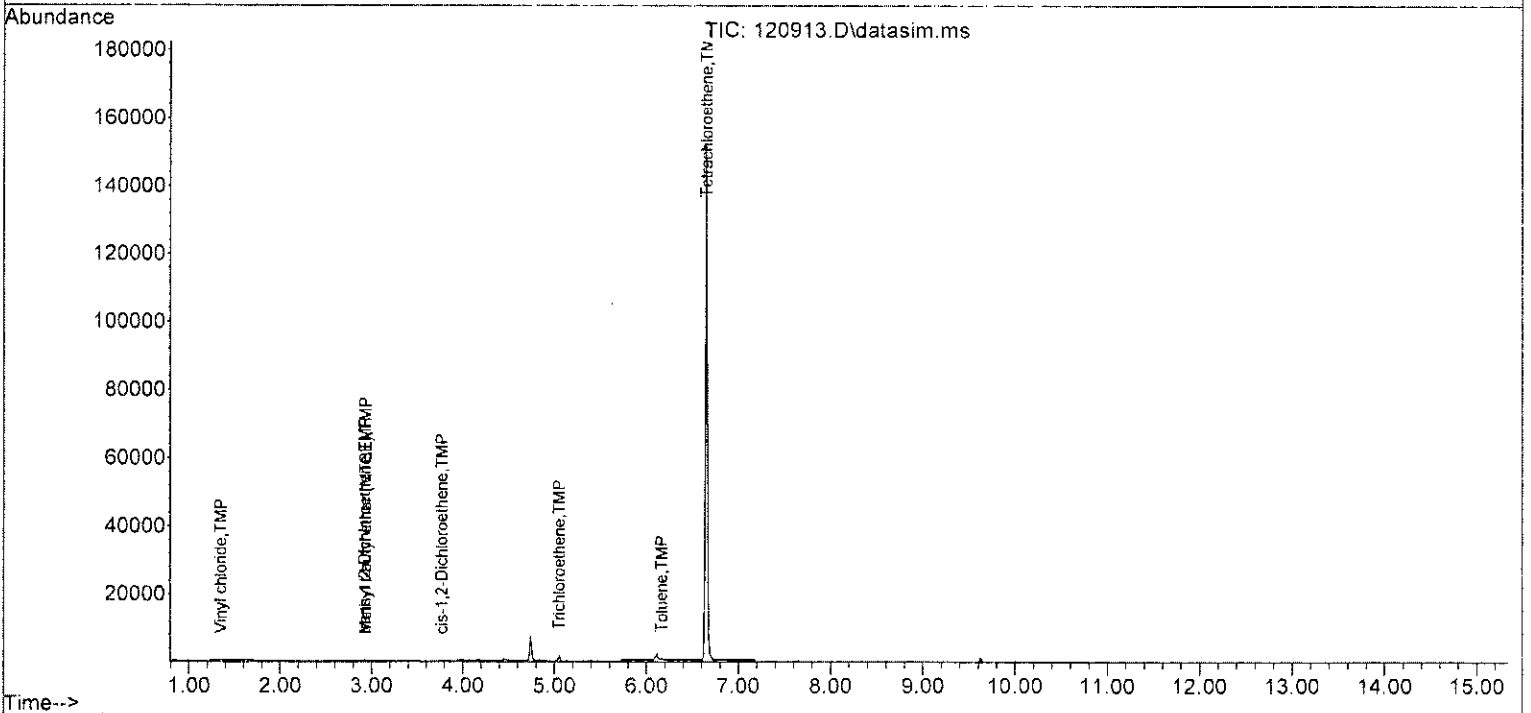
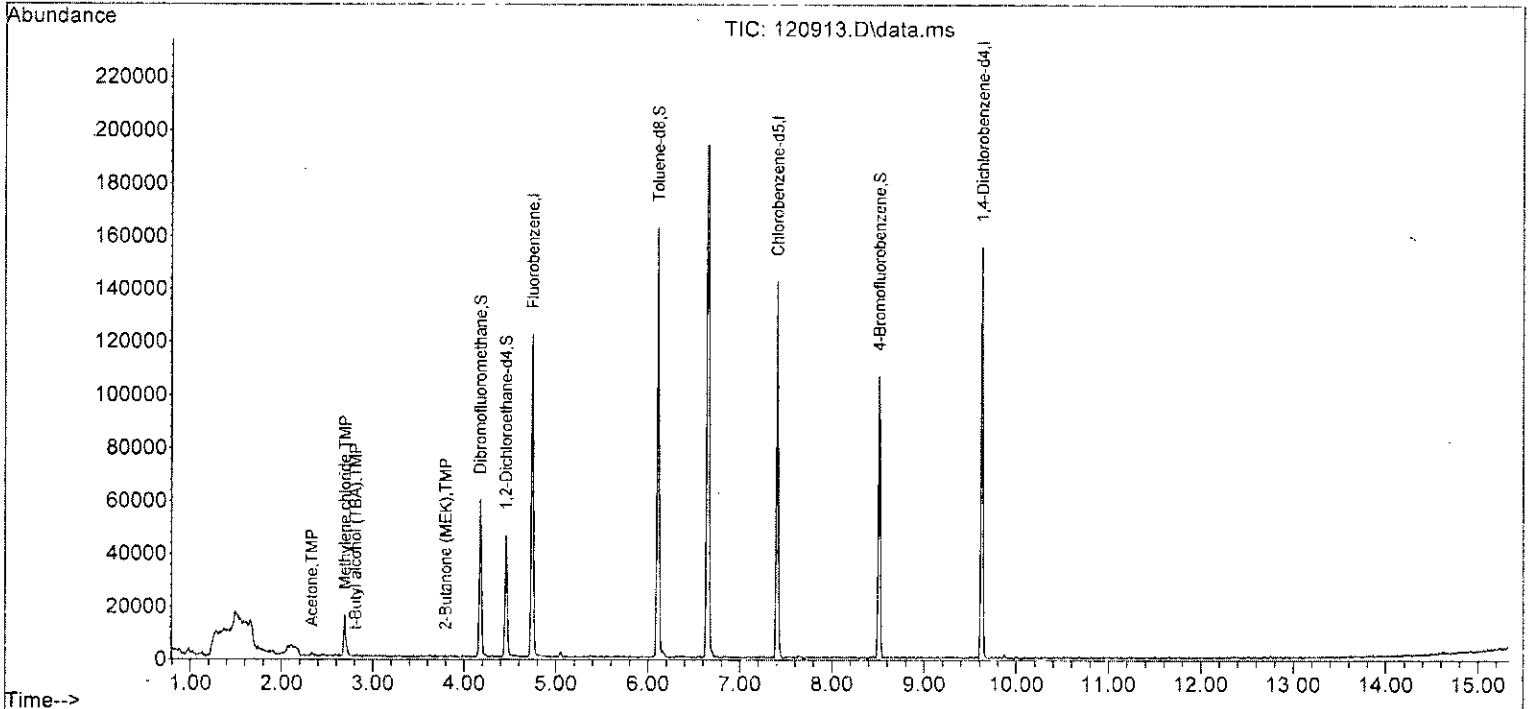
Quant Time: Dec 12 07:59:06 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	97334	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	70171	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37376	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.18	113	27894	8.996	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	90.00%	
30) 1,2-Dichloroethane-d4	4.45	102	5861	10.085	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	100.90%	
35) Toluene-d8	6.11	98	90728	10.370	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	103.70%	
57) 4-Bromofluorobenzene	8.51	95	28879	12.751	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	127.50%	
Target Compounds						
						Qvalue
6] Vinyl chloride	1.35	62	147m	0.040	ppb	
11) Acetone	2.33	58	425	3.605	ppb	# 71
14) Methylene chloride	2.69	84	7232	2.410	ppb	94
15) t-Butyl alcohol (TBA)	2.81	59	195	0.898	ppb	38
16] Methyl t-butyl ether (...)	2.93	73	93	0.016	ppb	95
17] trans-1,2-Dichloroethene	2.92	96	102	0.038	ppb	91
21) 2,2-Dichloropropane	3.76	77	274	Below Cal	#	43
22] cis-1,2-Dichloroethene	3.77	96	130	0.045	ppb	88
24) 2-Butanone (MEK)	3.79	43	187	0.779	ppb	57
31] Benzene	4.50	78	63	Below Cal		96
32] Trichloroethene	5.05	95	565	0.191	ppb	# 64
40] Toluene	6.16	92	233	0.041	ppb	96
45] Tetrachloroethene	6.65	164	53626	17.642	ppb	98
49] Ethylbenzene	7.54	91	151	Below Cal		90
51] m,p-Xylene	7.65	106	185	Below Cal		91
52] o-Xylene	8.02	106	72	Below Cal		92

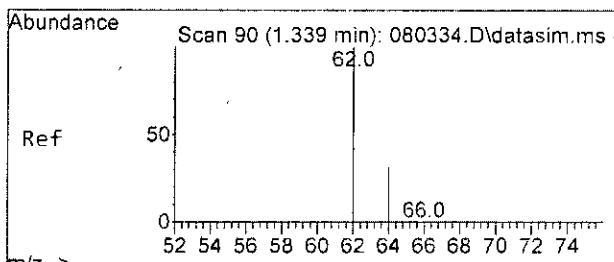
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : S:\Proc\_GCMS13\12-09-22\  
 Data File : 120913.D  
 Acq On : 09 Dec 2022 01:35 pm  
 Operator : lm  
 Sample : 212113-02  
 Misc : water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:06 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

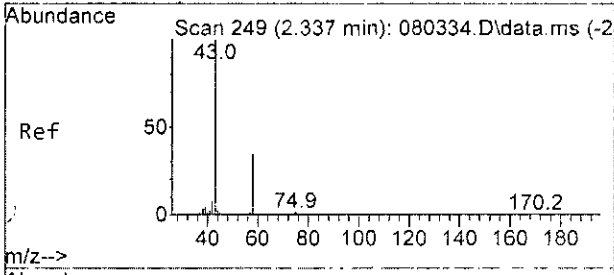
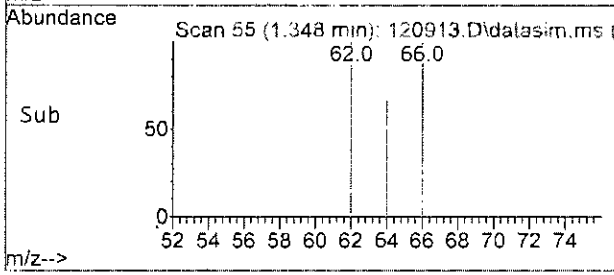
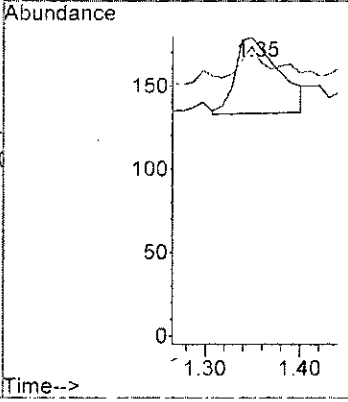
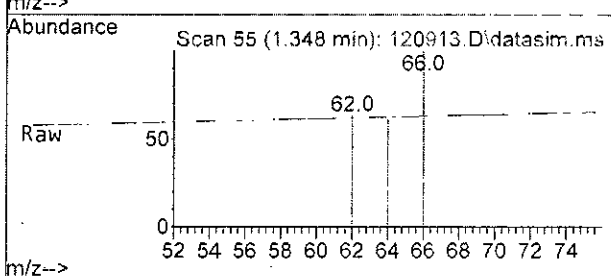






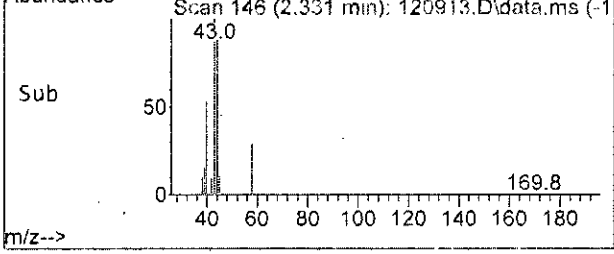
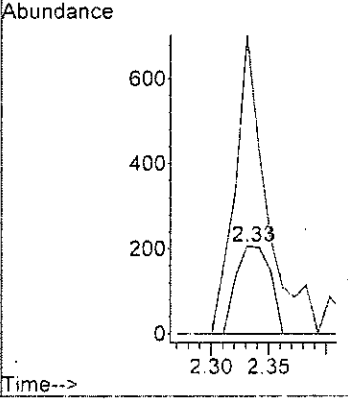
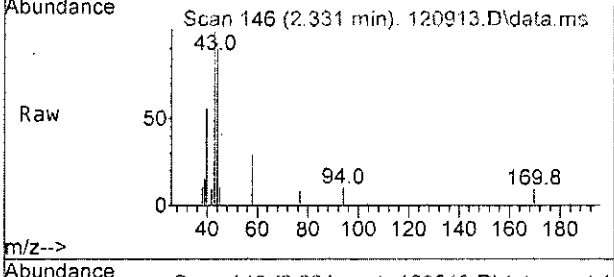
#6  
 Vinyl chloride  
 Concen: 0.040 ppb m  
 RT: 1.35 min Scan# 55  
 Delta R.T. 0.020 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

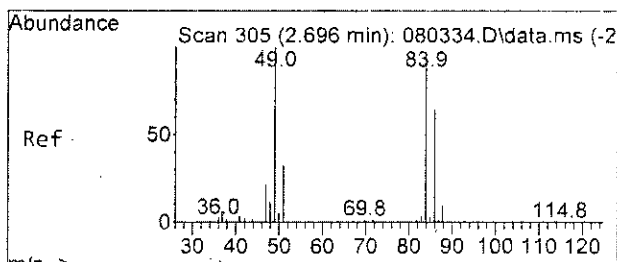
Tgt Ion	Resp	Lower	Upper
62	100		
64	96.6	0.2	60.2#



#11  
 Acetone  
 Concen: 3.605 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

Tgt Ion	Resp	Lower	Upper
58	100		
43	313.2	350.8	410.8#

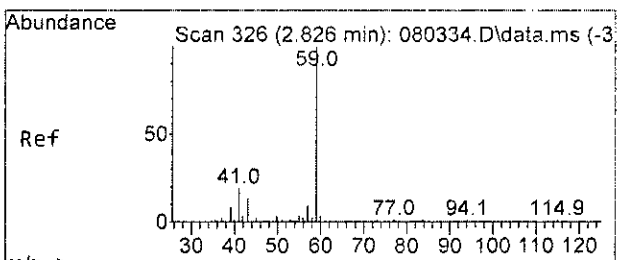
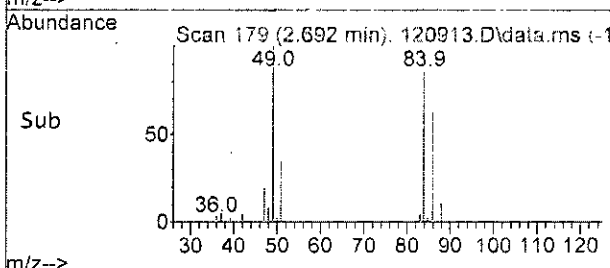
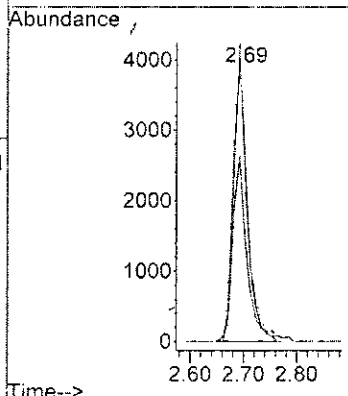
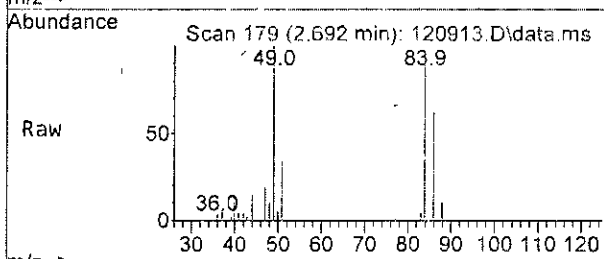




#14  
 Methylene chloride  
 Concen: 2.410 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

Tgt Ion: 84 Resp: 7232

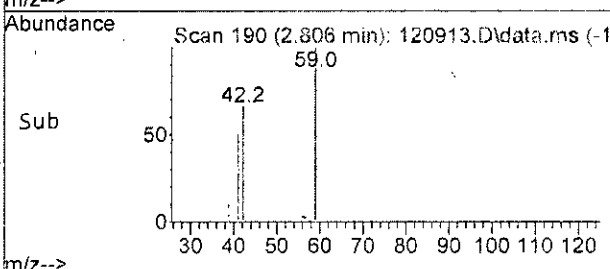
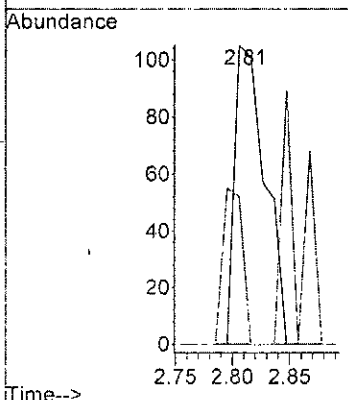
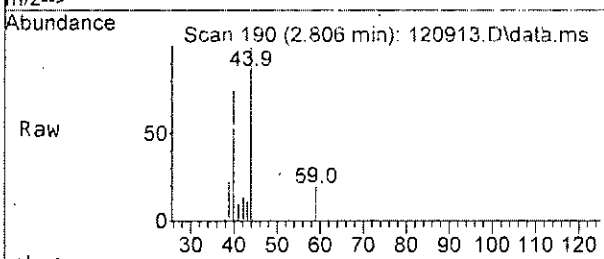
Ion	Ratio	Lower	Upper
84	100		
86	64.5	41.2	101.2
49	104.2	69.2	129.2

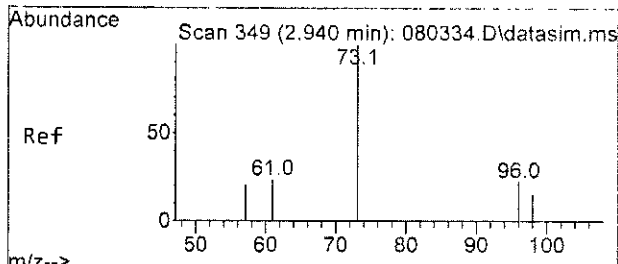


#15  
 t-Butyl alcohol (TBA)  
 Concen: 0.898 ppb  
 RT: 2.81 min Scan# 190  
 Delta R.T. 0.000 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

Tgt Ion: 59 Resp: 195

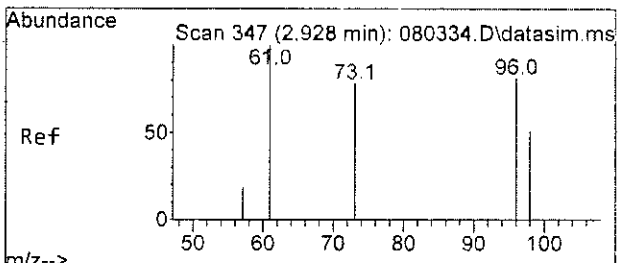
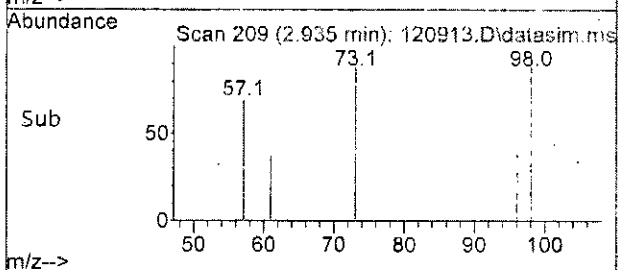
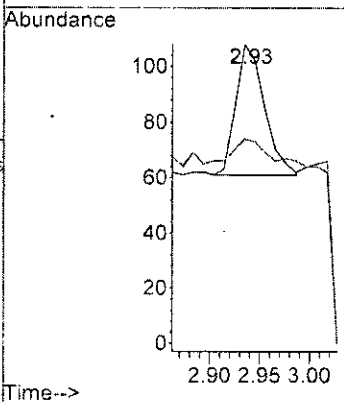
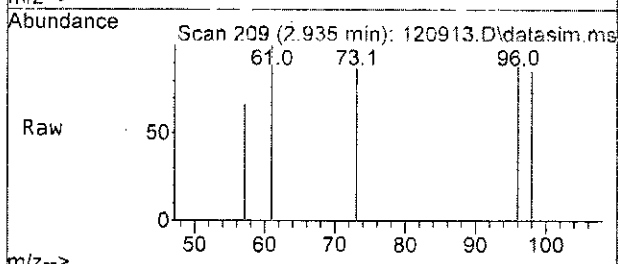
Ion	Ratio	Lower	Upper
59	100		
41	49.5	0.0	50.8





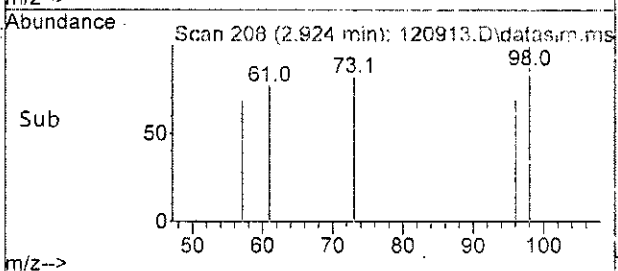
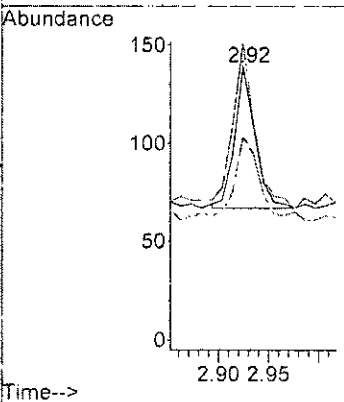
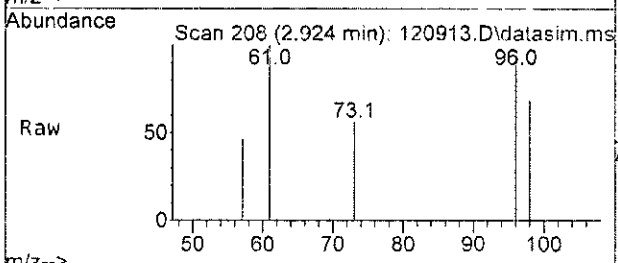
#16  
 Methyl t-butyl ether (MTBE)  
 Concen: 0.016 ppb  
 RT: 2.93 min Scan# 209  
 Delta R.T. 0.011 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

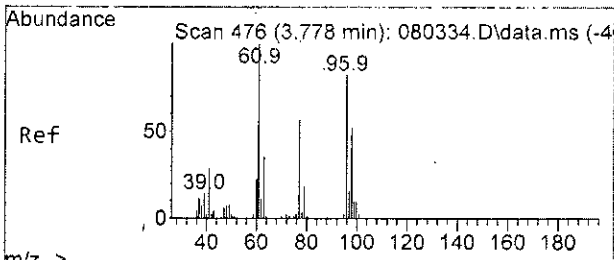
Tgt Ion: 73 Resp: 93  
 Ion Ratio Lower Upper  
 73 100  
 57 17.0 0.0 49.5



#17  
 trans-1,2-Dichloroethene  
 Concen: 0.038 ppb  
 RT: 2.92 min Scan# 208  
 Delta R.T. 0.010 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

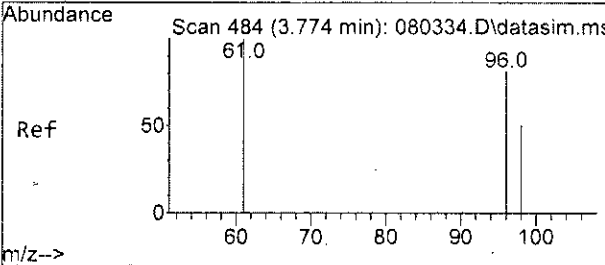
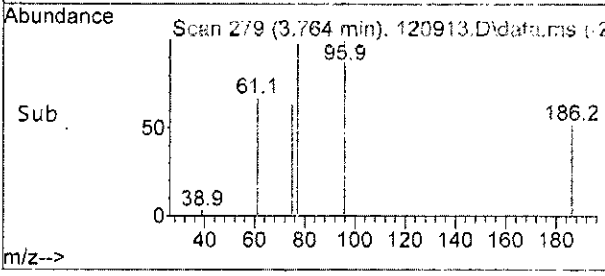
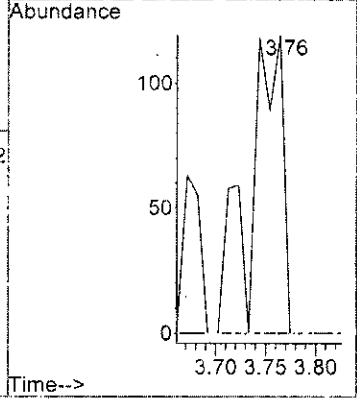
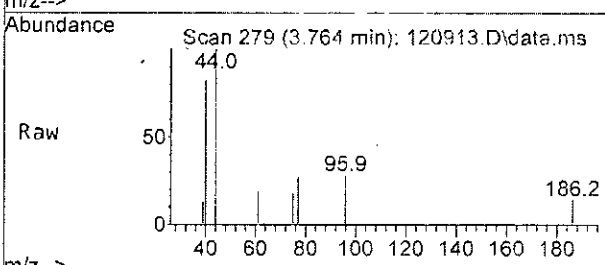
Tgt Ion: 96 Resp: 102  
 Ion Ratio Lower Upper  
 96 100  
 61 116.7 77.0 137.0  
 98 55.6 32.7 92.7





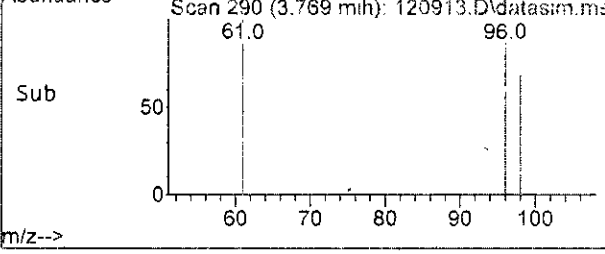
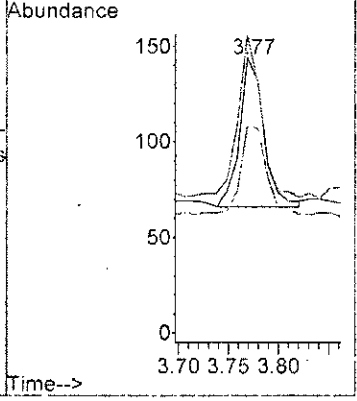
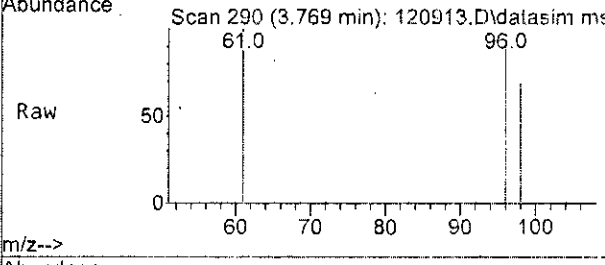
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.76 min Scan# 279  
 Delta R.T. 0.000 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

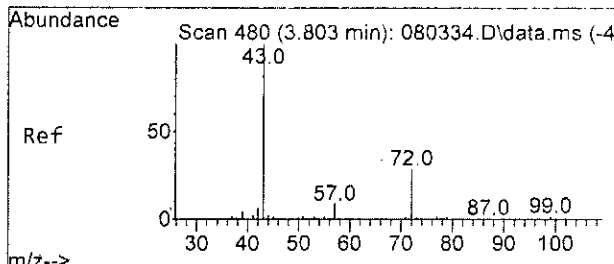
Tgt Ion: 77 Resp: 274  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 2.0 62.0#



#22  
 cis-1,2-Dichloroethene  
 Concen: 0.045 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.000 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

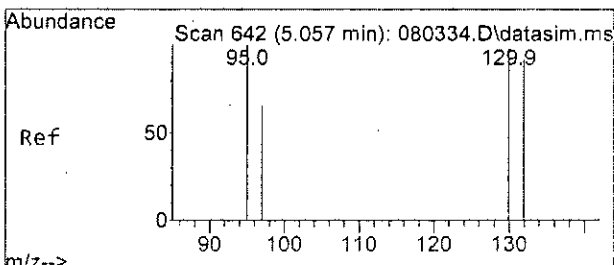
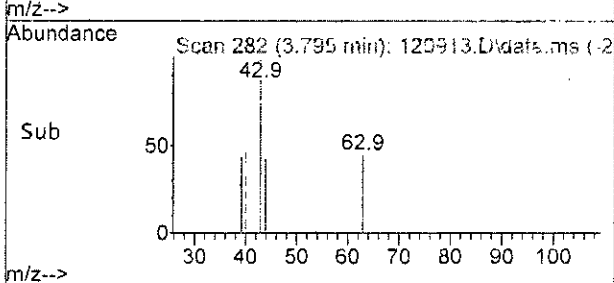
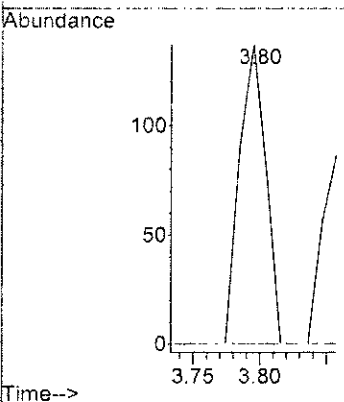
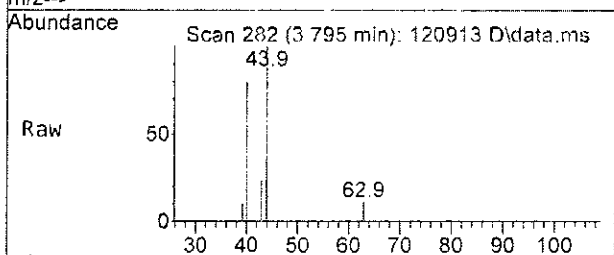
Tgt Ion: 96 Resp: 130  
 Ion Ratio Lower Upper  
 96 100  
 61 109.0 67.0 127.0  
 98 59.0 38.1 98.1





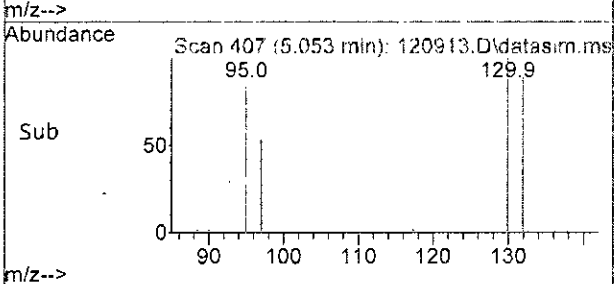
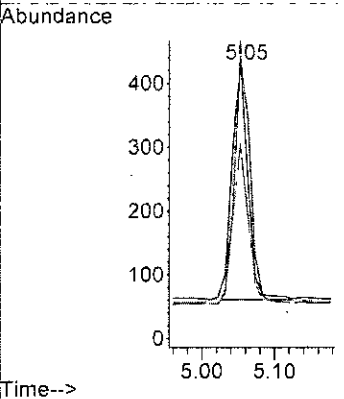
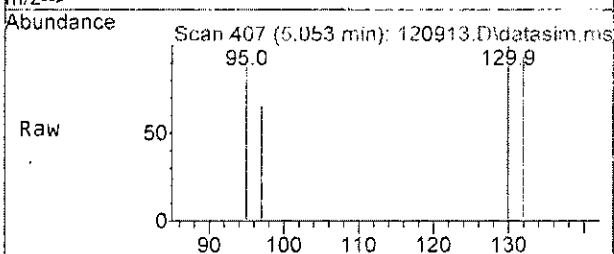
#24  
 2-Butanone (MEK)  
 Concen: 0.779 ppb  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.010 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

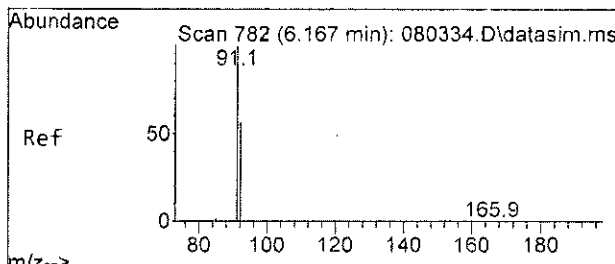
Tgt Ion	Resp	Lower	Upper
43	100		
72	0.0	0.0	54.9
57	0.0	0.0	28.8



#32  
 Trichloroethene  
 Concen: 0.191 ppb  
 RT: 5.05 min Scan# 407  
 Delta R.T. -0.000 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

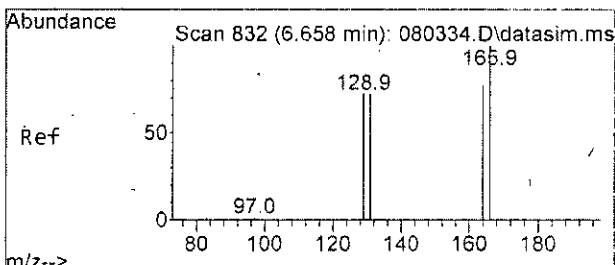
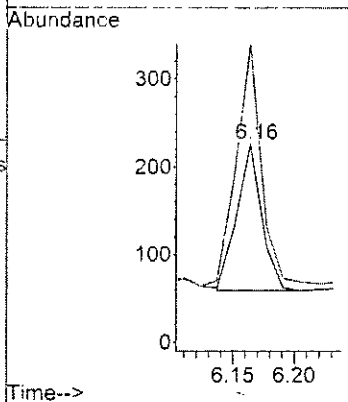
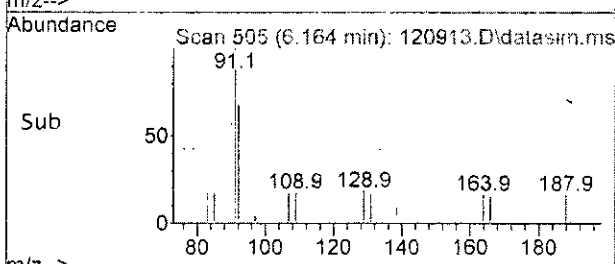
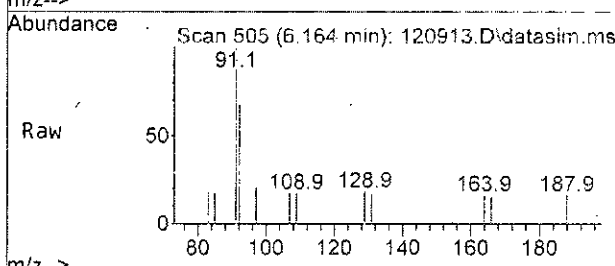
Tgt Ion	Resp	Lower	Upper
95	100		
97	64.7	39.9	99.9
130	108.7	131.0	191.0#
132	100.3	130.1	190.1#





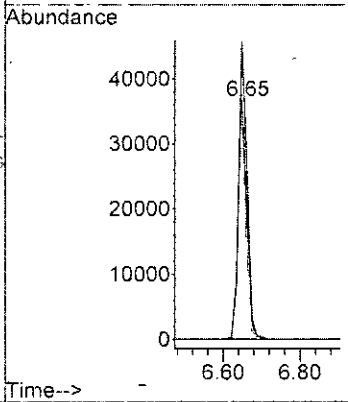
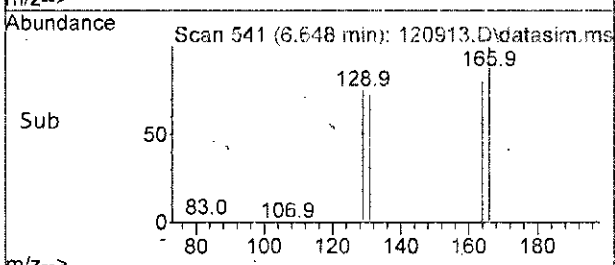
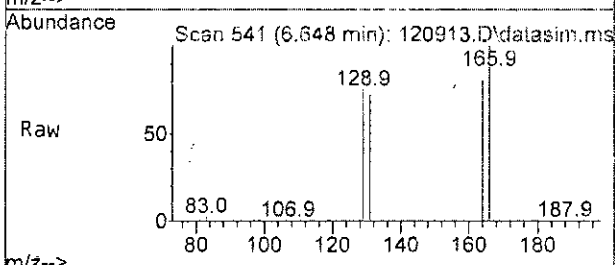
#40  
 Toluene  
 Concen: 0.041 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. 0.000 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

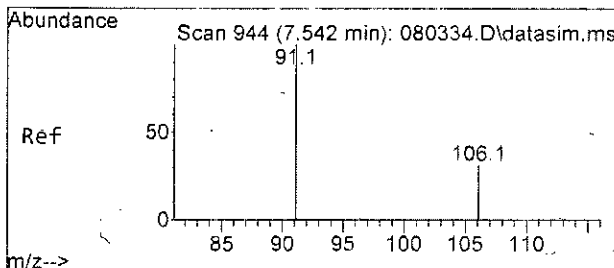
Tgt Ion: 92 Resp: 233  
 Ion Ratio Lower Upper  
 92 100  
 91 161.7 137.5 197.5



#45  
 Tetrachloroethene  
 Concen: 17.642 ppb  
 RT: 6.65 min Scan# 541  
 Delta R.T. 0.000 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

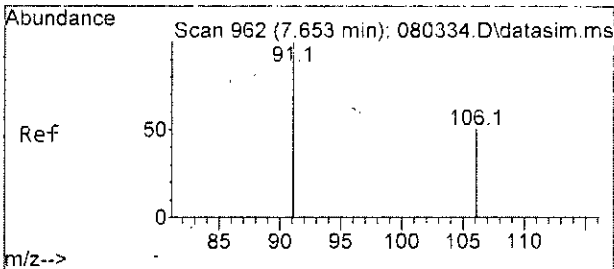
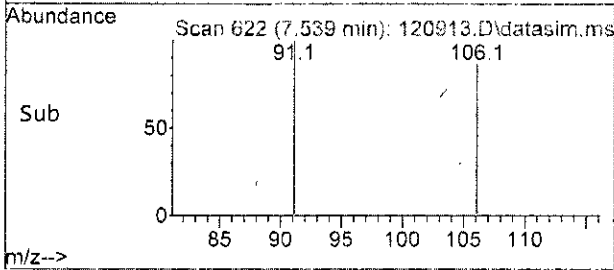
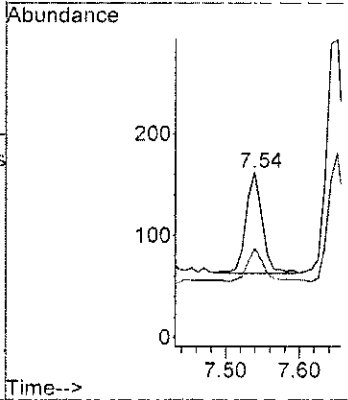
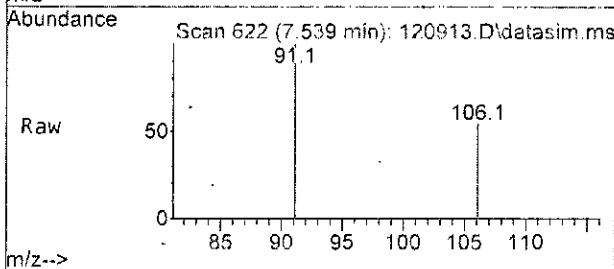
Tgt Ion: 164 Resp: 53626  
 Ion Ratio Lower Upper  
 164 100  
 129 94.0 60.6 120.6  
 131 90.6 58.0 118.0  
 166 125.1 95.8 155.8





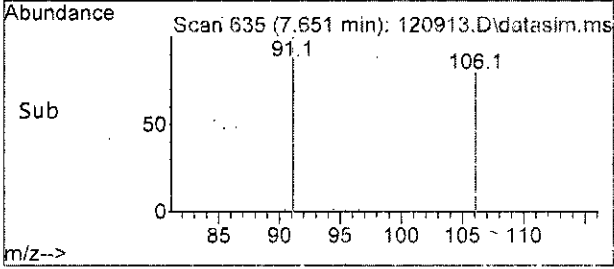
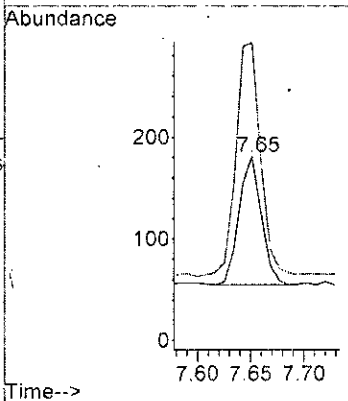
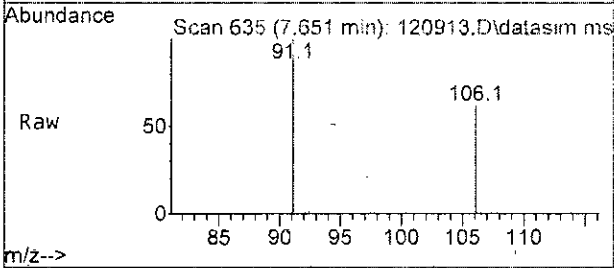
#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. 0.000 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

Tgt Ion: 91 Resp: 151  
 Ion Ratio Lower Upper  
 91 100  
 106 31.3 7.1 67.1



#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: 120913.D  
 Acq: 09 Dec 2022 01:35 pm

Tgt Ion: 106 Resp: 185  
 Ion Ratio Lower Upper  
 106 100  
 91 181.0 138.1 198.1



Data Path : S:\Proc\_GCMS13\12-09-22\  
 Data File : 120913.D  
 Acq On : 09 Dec 2022 01:35 pm  
 Operator : lm  
 Sample : 212113-02  
 Misc : water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:06 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)			
-----									
Internal Standards									
1) Fluorobenzene	4.75	96	97334	10.000	ppb	0.01			
39) Chlorobenzene-d5	7.40	117	70171	10.000	ppb	0.00			
56) 1,4-Dichlorobenzene-d4	9.62	152	37376	10.000	ppb	0.00			
System Monitoring Compounds									
3) Dibromofluoromethane	4.18	113	27894	8.996	ppb	0.00			
Spiked Amount	10.000	Range 50 - 150	Recovery	=	90.00%				
30) 1,2-Dichloroethane-d4	4.45	102	5861	10.085	ppb	0.00			
Spiked Amount	10.000	Range 71 - 132	Recovery	=	100.90%				
35) Toluene-d8	6.11	98	90728	10.370	ppb	0.00			
Spiked Amount	10.000	Range 68 - 139	Recovery	=	103.70%				
57) 4-Bromofluorobenzene	8.51	95	28879	12.751	ppb	0.00			
Spiked Amount	10.000	Range 62 - 136	Recovery	=	127.50%				
Target Compounds									
2) Ethanol	2.33	45	43	No Calib					
4) Dichlorodifluoromethane	0.00		0	N.D.					
5) Chloromethane	1.28	50	1595	N.D.					
6] Vinyl chloride	1.35	62	147m	0.040	ppb				
7) Bromomethane	0.00		0	N.D.	d				
8) Chloroethane	0.00		0	N.D.					
9) Trichlorofluoromethane	0.00		0	N.D.					
10) 2-Propanol	2.33	45	43	No Calib					
11) Acetone	2.33	58	425	3.605	ppb	#	71		
12) 1,1-Dichloroethene	0.00		0	N.D.					
13) Hexane	0.00		0	N.D.					
14) Methylene chloride	2.69	84	7232	2.410	ppb		94		
15) t-Butyl alcohol (TBA)	2.81	59	195	0.898	ppb		38		
16] Methyl t-butyl ether (...)	2.93	73	93	0.016	ppb		95		
17] trans-1,2-Dichloroethene	2.92	96	102	0.038	ppb		91		
18) Diisopropyl ether (DIPE)	0.00		0	N.D.					
19) 1,1-Dichloroethane	0.00		0	N.D.					
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.					
21) 2,2-Dichloropropane	3.76	77	274	Below Cal		#	43		
22] cis-1,2-Dichloroethene	3.77	96	130	0.045	ppb		88		
23) Chloroform	0.00		0	N.D.					
24) 2-Butanone (MEK)	3.79	43	187	0.779	ppb		57		
25) t-Amyl methyl ether (T...)	4.52	73	99	N.D.					
26) 1,2-Dichloroethane (EDC)	4.53	62	63	N.D.					
27) 1,1,1-Trichloroethane	0.00		0	N.D.					
28) 1,1-Dichloropropene	0.00		0	N.D.					
29) Carbon tetrachloride	0.00		0	N.D.					
31] Benzene	4.50	78	63	Below Cal			96		
32] Trichloroethene	5.05	95	565	0.191	ppb	#	64		
33) 1,2-Dichloropropane	0.00		0	N.D.					
34) Bromodichloromethane	0.00		0	N.D.					
36) Dibromomethane	0.00		0	N.D.					



Data Path : S:\Proc\_GCMS13\12-09-22\  
 Data File : 120913.D  
 Acq On : 09 Dec 2022 01:35 pm  
 Operator : lm  
 Sample : 212113-02  
 Misc : water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS13

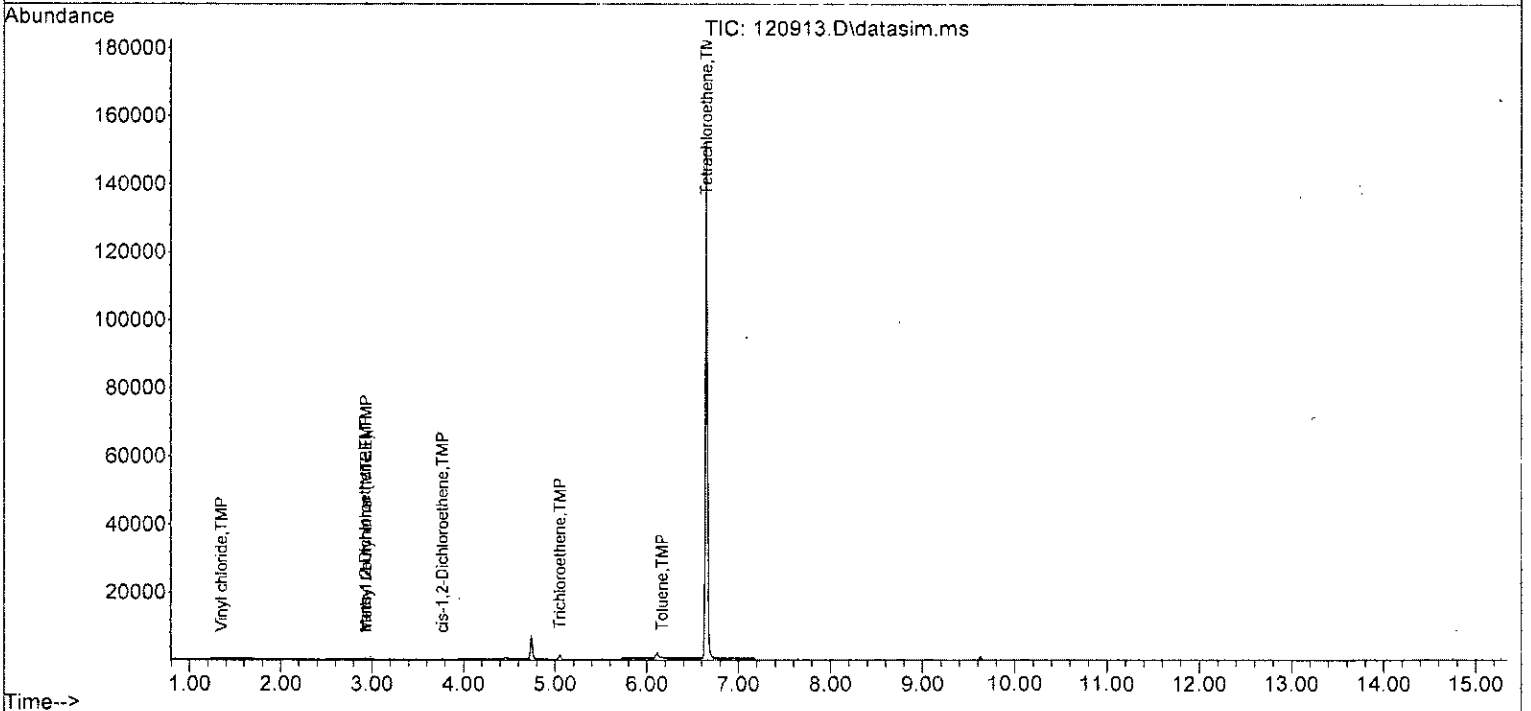
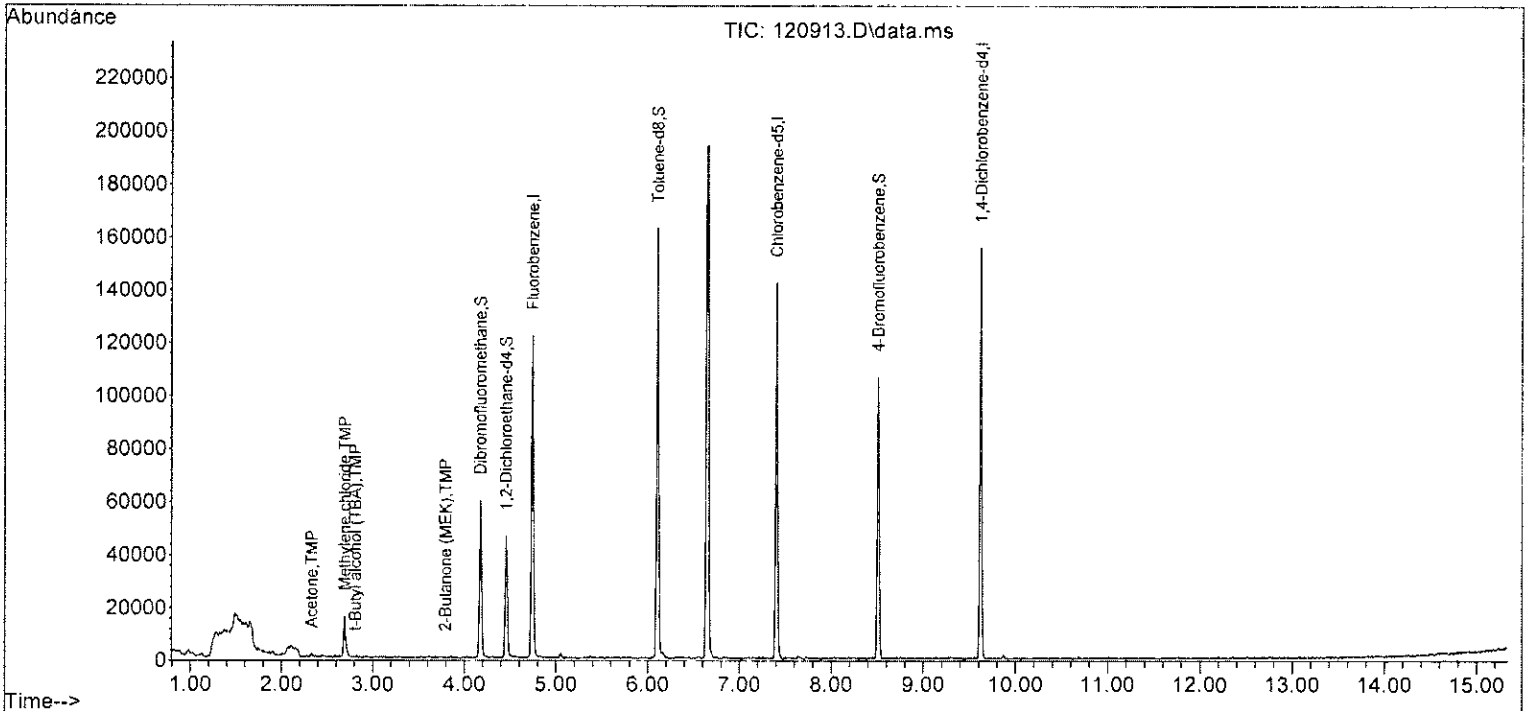
Quant Time: Dec 12 07:59:06 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	233	0.041	ppb	96
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.53	83	34		N.D.	
43) 2-Hexanone	6.74	43	54		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.65	164	53626	17.642	ppb	98
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	151	Below Cal		90
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.65	106	185	Below Cal		91
52] o-Xylene	8.02	106	72	Below Cal		92
53) Styrene	8.03	104	38		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.76	91	79		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.88	105	26		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.76	91	79		N.D.	
64) 4-Chlorotoluene	8.76	91	79		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.31	105	249		N.D.	
67) sec-Butylbenzene	9.31	105	249		N.D.	
68) p-Isopropyltoluene	9.61	119	94		N.D.	
69) 1,3-Dichlorobenzene	9.56	146	22		N.D.	
70) 1,4-Dichlorobenzene	9.56	146	22		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.83	128	120		N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : S:\Proc\_GCMS13\12-09-22\  
 Data File : 120913.D  
 Acq On : 09 Dec 2022 01:35 pm  
 Operator : lm  
 Sample : 212113-02  
 Misc : water  
 ALS Vial : 9 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:06 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120914.D  
 Acq On : 09 Dec 2022 01:58 pm  
 Operator : lm  
 Sample : 212113-03  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS13

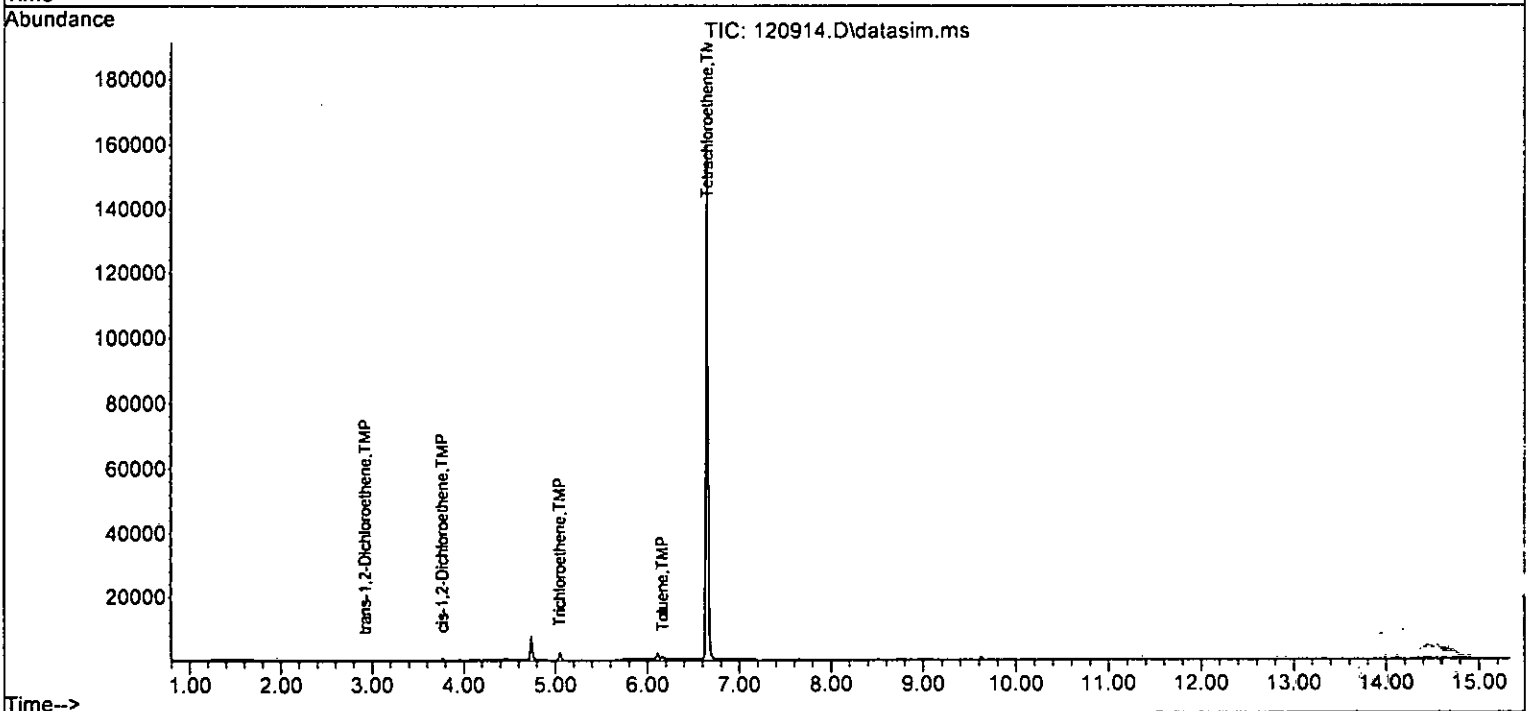
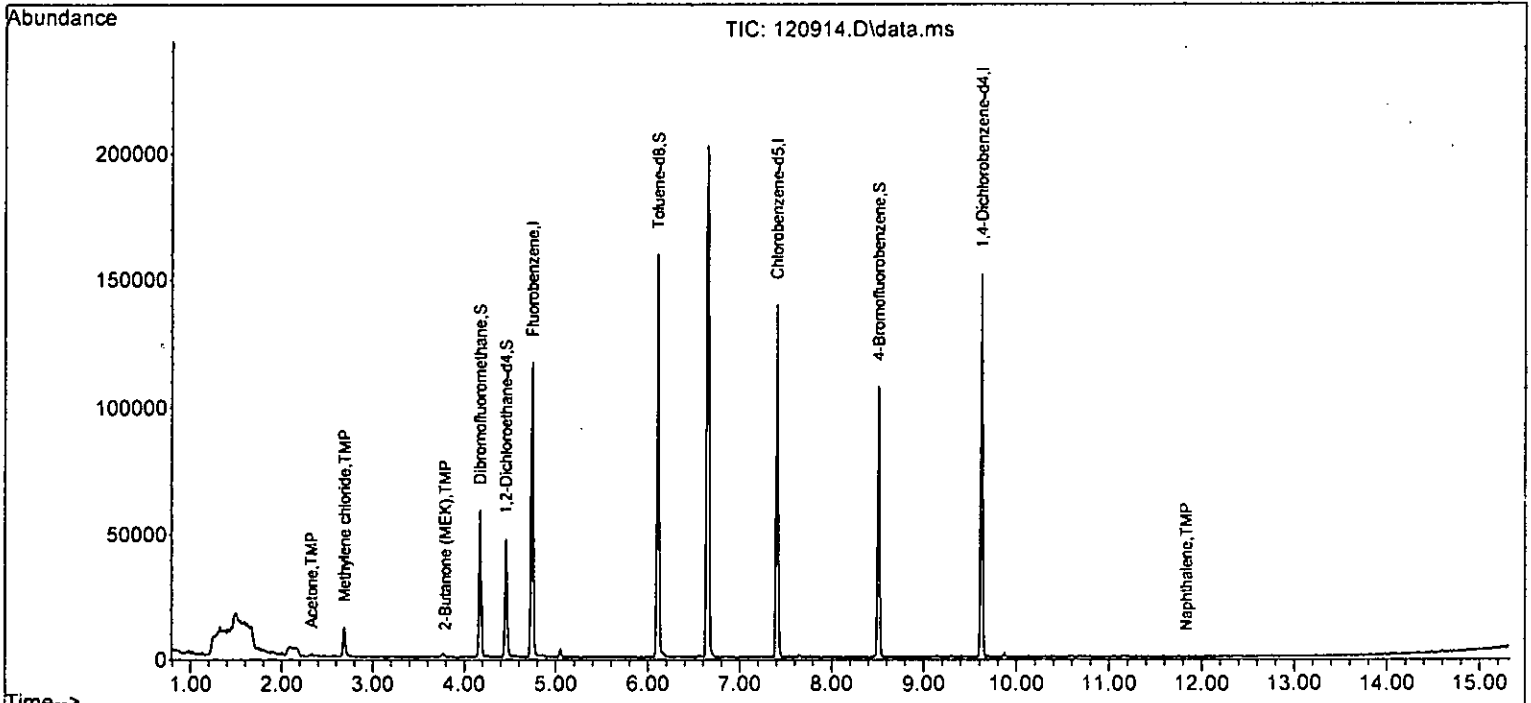
Quant Time: Dec 12 07:59:11 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

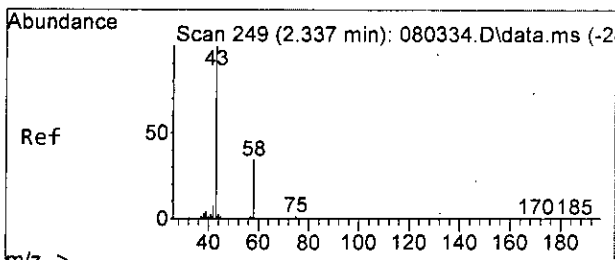
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.75	96	105953	10.000	ppb	0.01
39) Chlorobenzene-d5	7.40	117	69487	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	37088	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	27441	8.130	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	81.30%	
30) 1,2-Dichloroethane-d4	4.45	102	5594	8.843	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	88.40%	
35) Toluene-d8	6.11	98	89217	9.368	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	93.70%	
57) 4-Bromofluorobenzene	8.51	95	28769	12.801	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	128.00%	
Target Compounds						
						Qvalue
11) Acetone	2.33	58	350	3.201	ppb	# 84
14) Methylene chloride	2.69	84	5741	1.569	ppb	90
17] trans-1,2-Dichloroethene	2.92	96	42	0.014	ppb	93
21) 2,2-Dichloropropane	3.75	77	232	Below Cal	#	43
22] cis-1,2-Dichloroethene	3.77	96	417	0.133	ppb	89
24) 2-Butanone (MEK)	3.79	43	396	0.937	ppb	57
31] Benzene	4.50	78	91	Below Cal		97
32] Trichloroethene	5.05	95	980	0.304	ppb	# 69
33) 1,2-Dichloropropane	5.32	63	42	Below Cal	#	81
40] Toluene	6.16	92	265	0.048	ppb	95
45] Tetrachloroethene	6.65	164	55833	18.557	ppb	97
49] Ethylbenzene	7.54	91	156	Below Cal		85
51] m,p-Xylene	7.65	106	201	Below Cal		85
52] o-Xylene	8.02	106	77	Below Cal		78
75) Naphthalene	11.83	128	173	0.024	ppb	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120914.D  
 Acq On : 09 Dec 2022 01:58 pm  
 Operator : lm  
 Sample : 212113-03  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS13

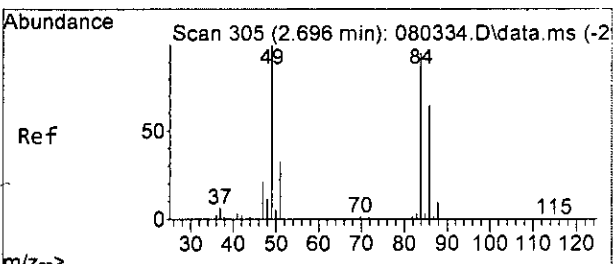
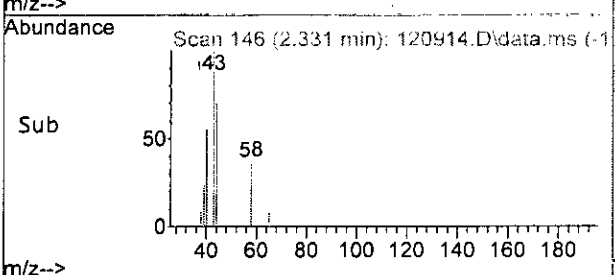
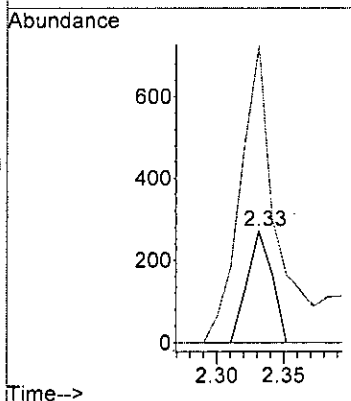
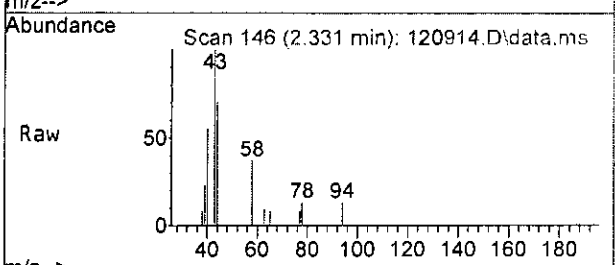
Quant Time: Dec 12 07:59:11 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M





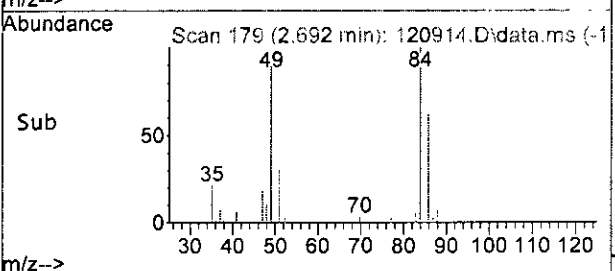
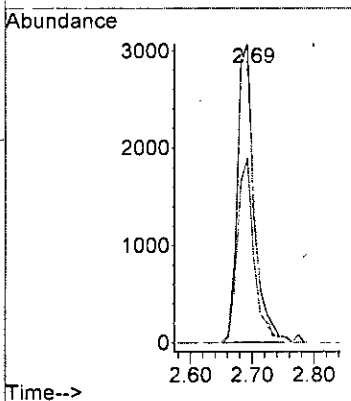
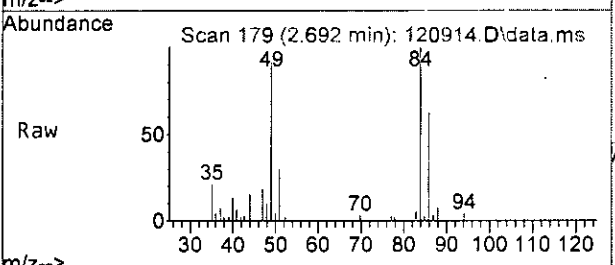
#11  
 Acetone  
 Concen: 3.201 ppb  
 RT: 2.33 min Scan# 146  
 Delta R.T. 0.010 min  
 Lab File: 120914.D  
 Acq: 09 Dec 2022 01:58 pm

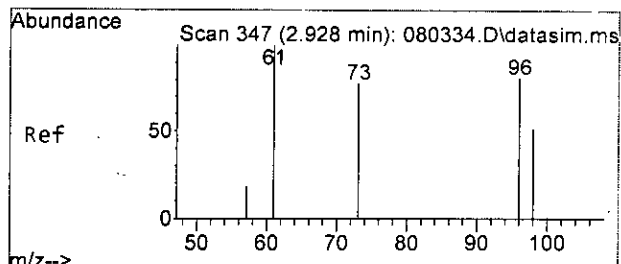
Tgt Ion: 58 Resp: 350  
 Ion Ratio Lower Upper  
 58 100  
 43 417.7 350.8 410.8#



#14  
 Methylene chloride  
 Concen: 1.569 ppb  
 RT: 2.69 min Scan# 179  
 Delta R.T. 0.010 min  
 Lab File: 120914.D  
 Acq: 09 Dec 2022 01:58 pm

Tgt Ion: 84 Resp: 5741  
 Ion Ratio Lower Upper  
 84 100  
 86 61.8 41.2 101.2  
 49 91.0 69.2 129.2

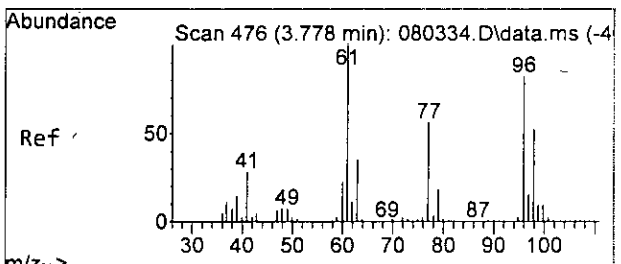
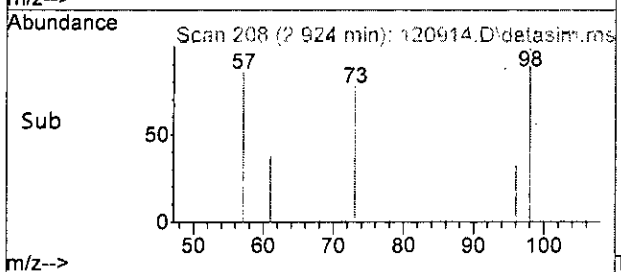
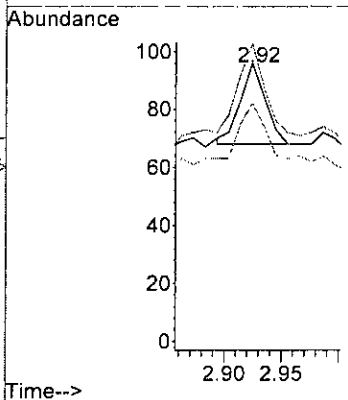
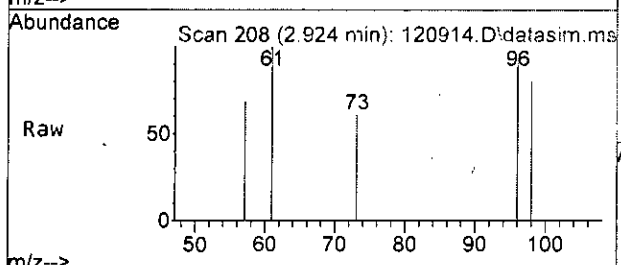




#17  
 trans-1,2-Dichloroethene  
 Concen: 0.014 ppb  
 RT: 2.92 min Scan# 208  
 Delta R.T. 0.010 min  
 Lab File: 120914.D  
 Acq: 09 Dec 2022 01:58 pm

Tgt Ion: 96 Resp: 42

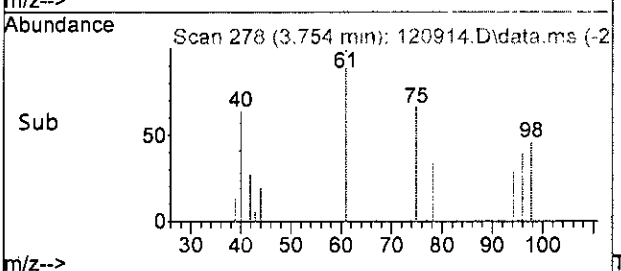
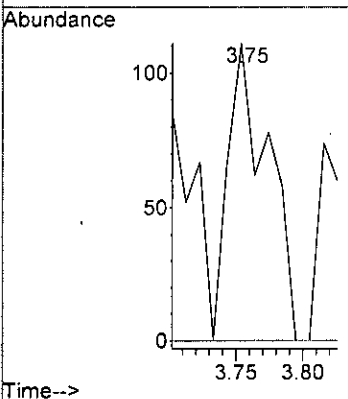
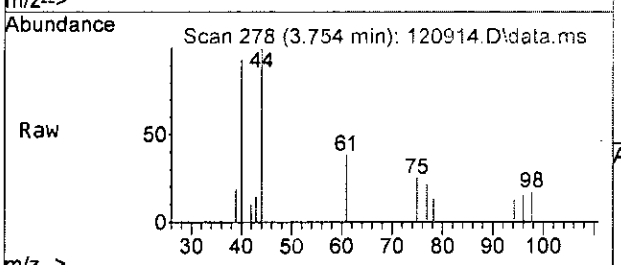
Ion	Ratio	Lower	Upper
96	100		
61	114.3	77.0	137.0
98	67.9	32.7	92.7

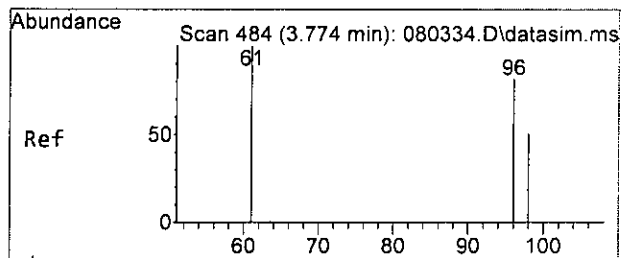


#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.75 min Scan# 278  
 Delta R.T. -0.010 min  
 Lab File: 120914.D  
 Acq: 09 Dec 2022 01:58 pm

Tgt Ion: 77 Resp: 232

Ion	Ratio	Lower	Upper
77	100		
97	0.0	2.0	62.0#

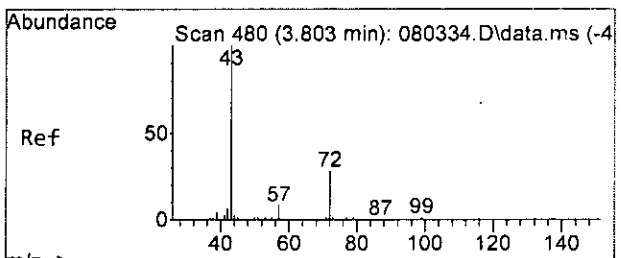
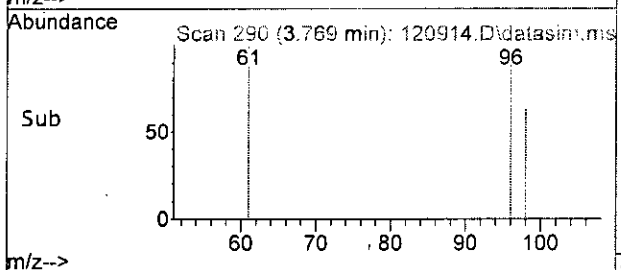
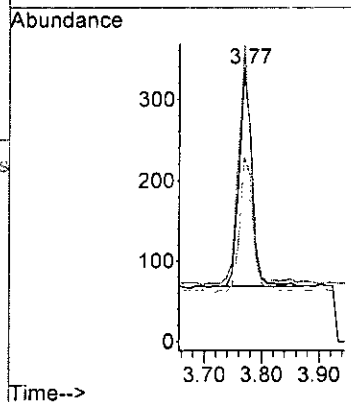
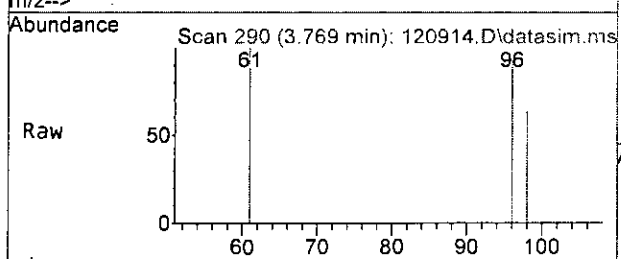




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.133 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. -0.000 min  
 Lab File: 120914.D  
 Acq: 09 Dec 2022 01:58 pm

Tgt Ion: 96 Resp: 417

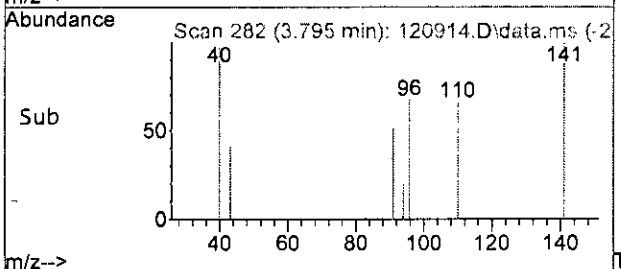
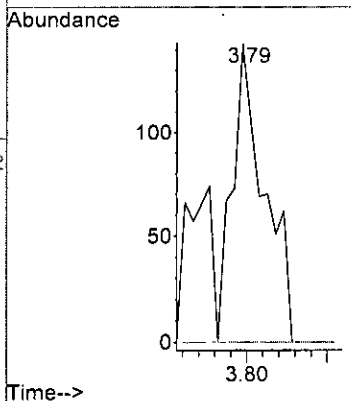
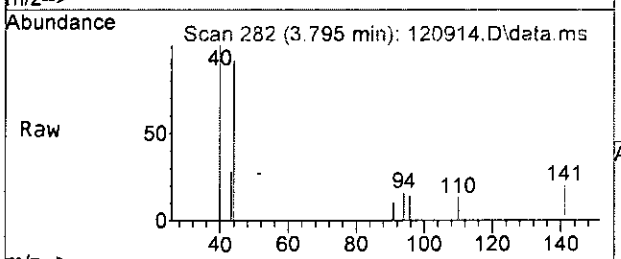
Ion	Ratio	Lower	Upper
96	100		
61	109.6	67.0	127.0
98	61.9	38.1	98.1

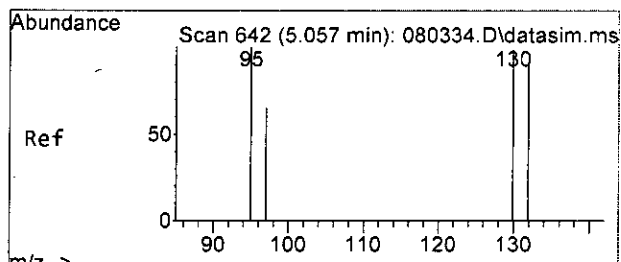


#24  
 2-Butanone (MEK)  
 Concen: 0.937 ppb  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.010 min  
 Lab File: 120914.D  
 Acq: 09 Dec 2022 01:58 pm

Tgt Ion: 43 Resp: 396

Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	54.9
57	0.0	0.0	28.8

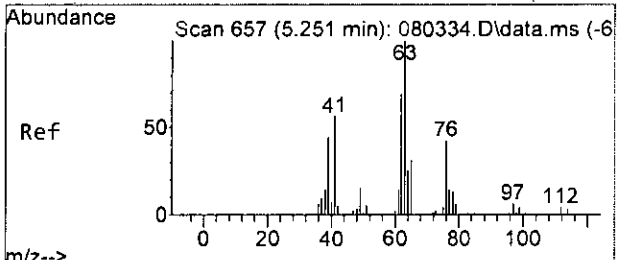
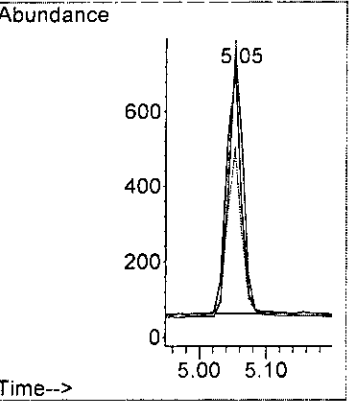
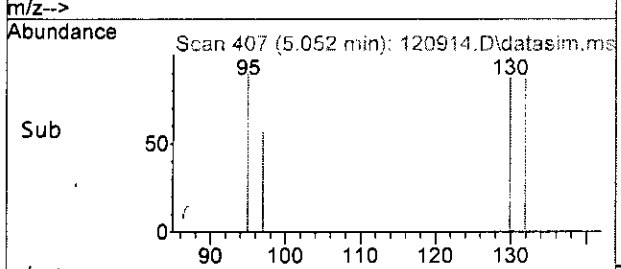
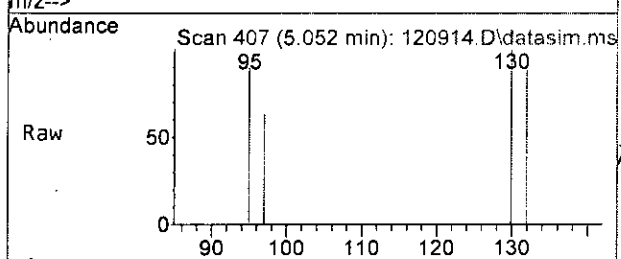




#32  
 Trichloroethene  
 Concen: 0.304 ppb  
 RT: 5.05 min Scan# 407  
 Delta R.T. -0.001 min  
 Lab File: 120914.D  
 Acq: 09 Dec 2022 01:58 pm

Tgt Ion: 95 Resp: 980

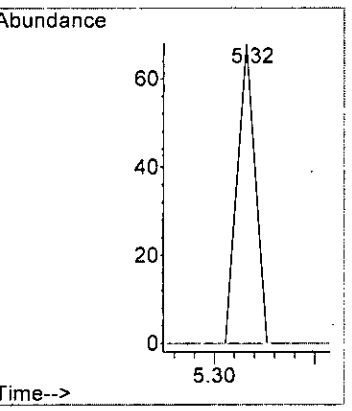
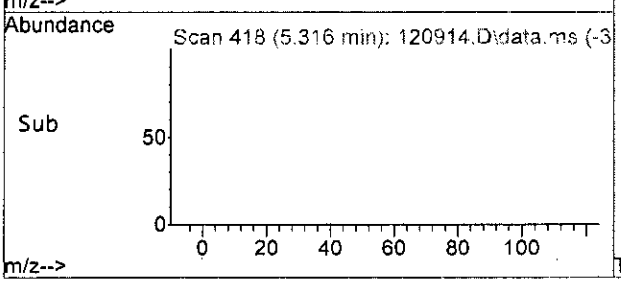
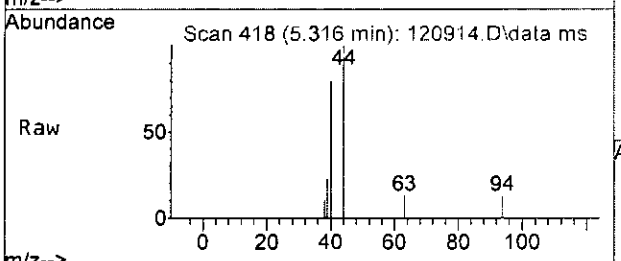
Ion	Ratio	Lower	Upper
95	100		
97	67.9	39.9	99.9
130	113.1	131.0	191.0#
132	108.9	130.1	190.1#



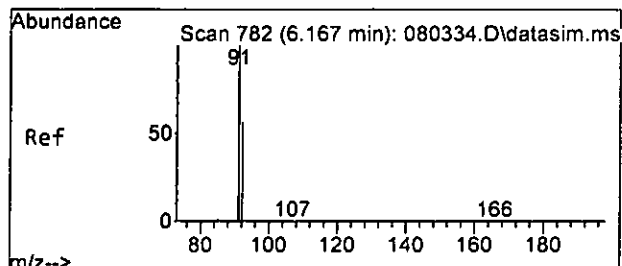
#33  
 1,2-Dichloropropane  
 Concen: Below Cal  
 RT: 5.32 min Scan# 418  
 Delta R.T. 0.072 min  
 Lab File: 120914.D  
 Acq: 09 Dec 2022 01:58 pm

Tgt Ion: 63 Resp: 42

Ion	Ratio	Lower	Upper
63	100		
112	0.0	0.0	36.5

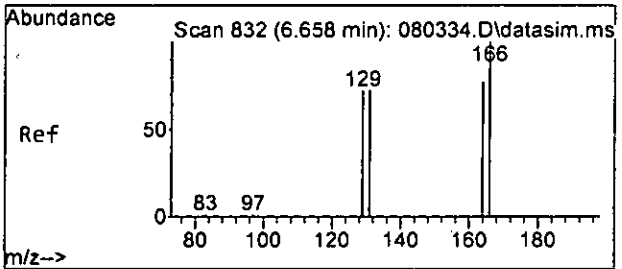
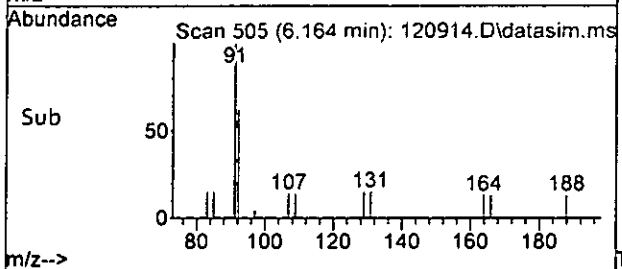
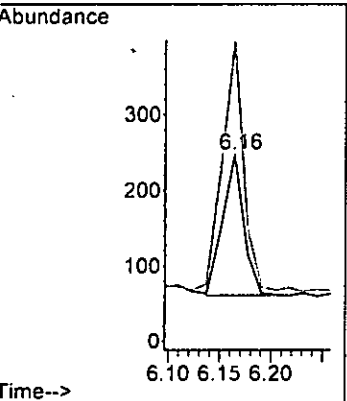
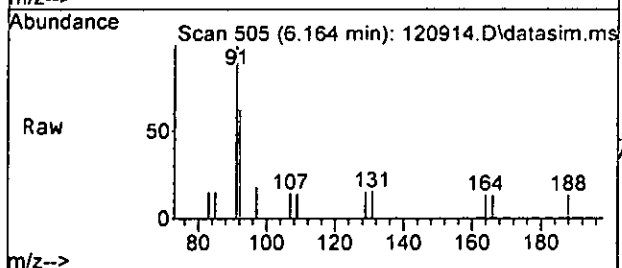






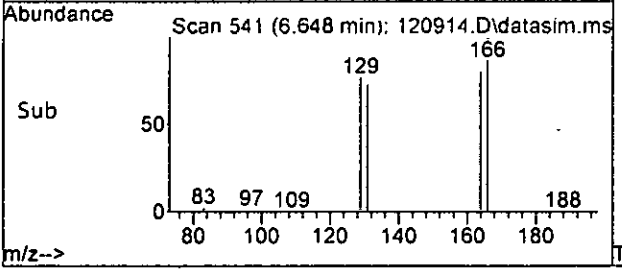
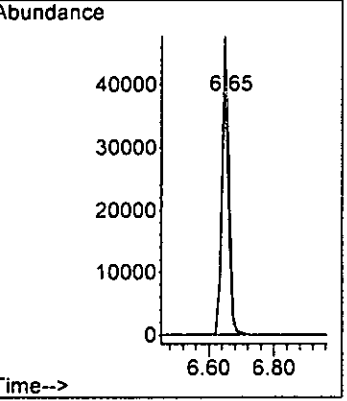
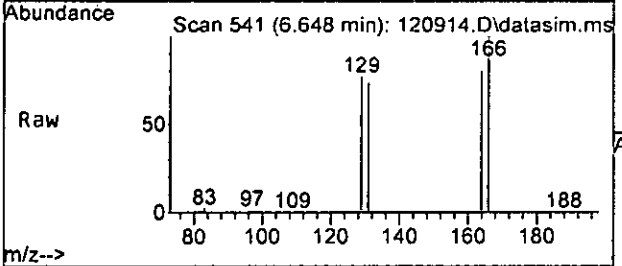
#40  
Toluene  
Concen: 0.048 ppb  
RT: 6.16 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: 120914.D  
Acq: 09 Dec 2022 01:58 pm

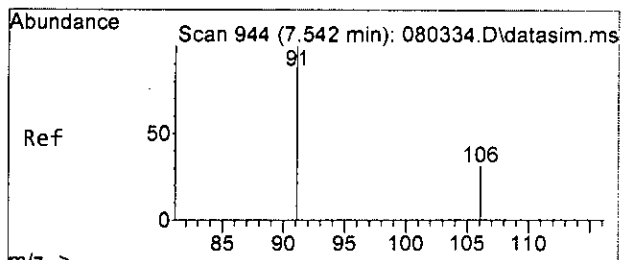
Tgt Ion: 92 Resp: 265  
Ion Ratio Lower Upper  
92 100  
91 174.9 137.5 197.5



#45  
Tetrachloroethene  
Concen: 18.557 ppb  
RT: 6.65 min Scan# 541  
Delta R.T. -0.000 min  
Lab File: 120914.D  
Acq: 09 Dec 2022 01:58 pm

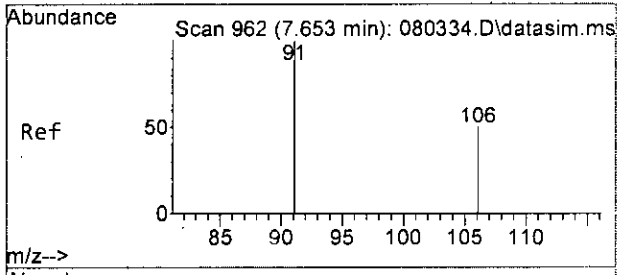
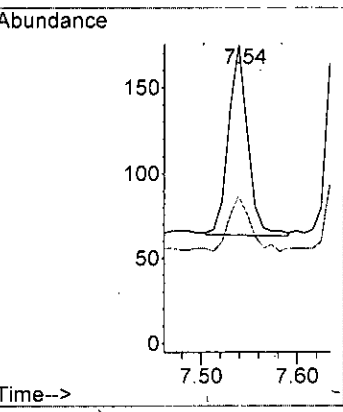
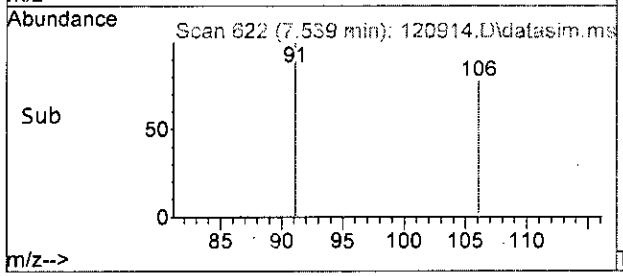
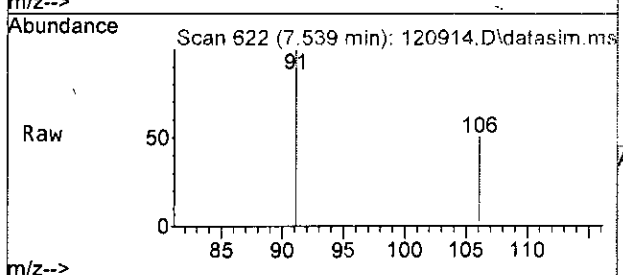
Tgt Ion: 164 Resp: 55833  
Ion Ratio Lower Upper  
164 100  
129 95.7 60.6 120.6  
131 91.3 58.0 118.0  
166 124.6 95.8 155.8





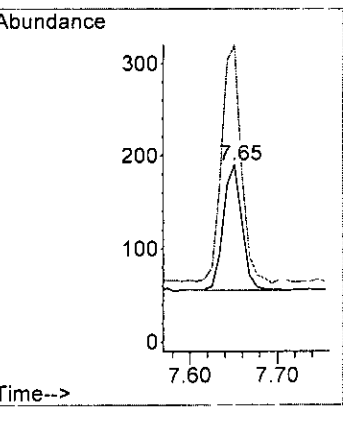
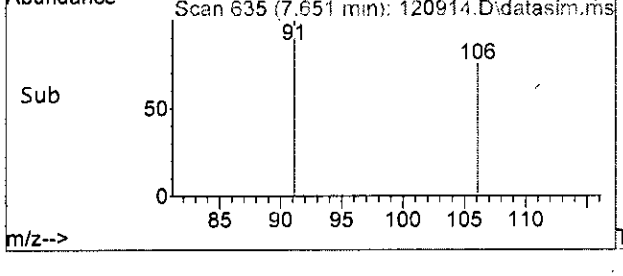
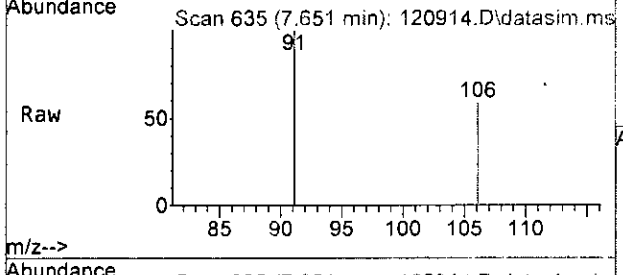
#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. -0.000 min  
 Lab File: 120914.D  
 Acq: 09 Dec 2022 01:58 pm

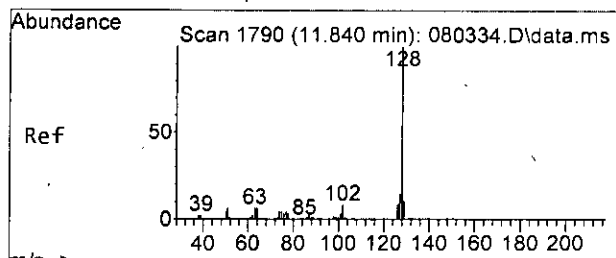
Tgt Ion: 91 Resp: 156  
 Ion Ratio Lower Upper  
 91 100  
 106 28.2 7.1 67.1



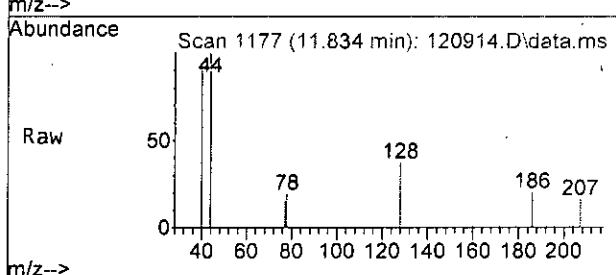
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: 120914.D  
 Acq: 09 Dec 2022 01:58 pm

Tgt Ion: 106 Resp: 201  
 Ion Ratio Lower Upper  
 106 100  
 91 188.1 138.1 198.1

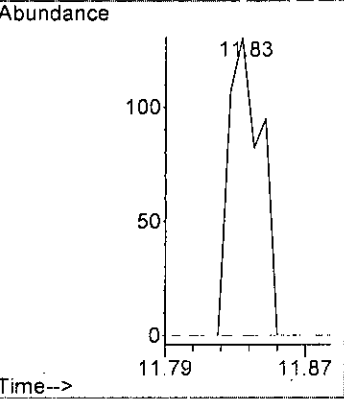
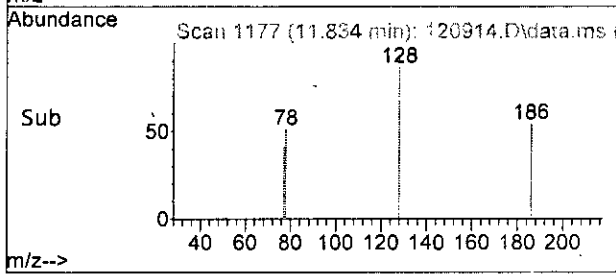




#75  
 Naphthalene  
 Concen: 0.024 ppb  
 RT: 11.83 min Scan# 1177  
 Delta R.T. -0.000 min  
 Lab File: 120914.D  
 Acq: 09 Dec 2022 01:58 pm



Tgt Ion:128 Resp: 173  
 Ion Ratio Lower Upper  
 128 100  
 129 0.0 0.0 41.5  
 127 0.0 0.0 44.0



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120914.D  
 Acq On : 09 Dec 2022 01:58 pm  
 Operator : lm  
 Sample : 212113-03  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:11 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.75	96	105953	10.000	ppb	0.01	
39) Chlorobenzene-d5	7.40	117	69487	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	37088	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	27441	8.130	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery =	81.30%			
30) 1,2-Dichloroethane-d4	4.45	102	5594	8.843	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery =	88.40%			
35) Toluene-d8	6.11	98	89217	9.368	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery =	93.70%			
57) 4-Bromofluorobenzene	8.51	95	28769	12.801	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery =	128.00%			
<b>Target Compounds</b>							
2) Ethanol	2.38	45	32	No Calib			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.26	50	2594	N.D.			
6) Vinyl chloride	0.00		0	N.D. d			
7) Bromomethane	0.00		0	N.D.			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.38	45	32	No Calib			
11) Acetone	2.33	58	350	3.201 ppb	#	84	
12) 1,1-Dichloroethene	0.00		0	N.D. d			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.69	84	5741	1.569 ppb		90	
15) t-Butyl alcohol (TBA)	0.00		0	N.D.			
16) Methyl t-butyl ether (...)	0.00		0	N.D.			
17] trans-1,2-Dichloroethene	2.92	96	42	0.014 ppb		93	
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.75	77	232	Below Cal	#	43	
22] cis-1,2-Dichloroethene	3.77	96	417	0.133 ppb		89	
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.79	43	396	0.937 ppb		57	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26) 1,2-Dichloroethane (EDC)	4.52	62	68	N.D.			
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.50	78	91	Below Cal		97	
32] Trichloroethene	5.05	95	980	0.304 ppb	#	69	
33) 1,2-Dichloropropane	5.32	63	42	Below Cal	#	81	
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120914.D  
 Acq On : 09 Dec 2022 01:58 pm  
 Operator : lm  
 Sample : 212113-03  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS13

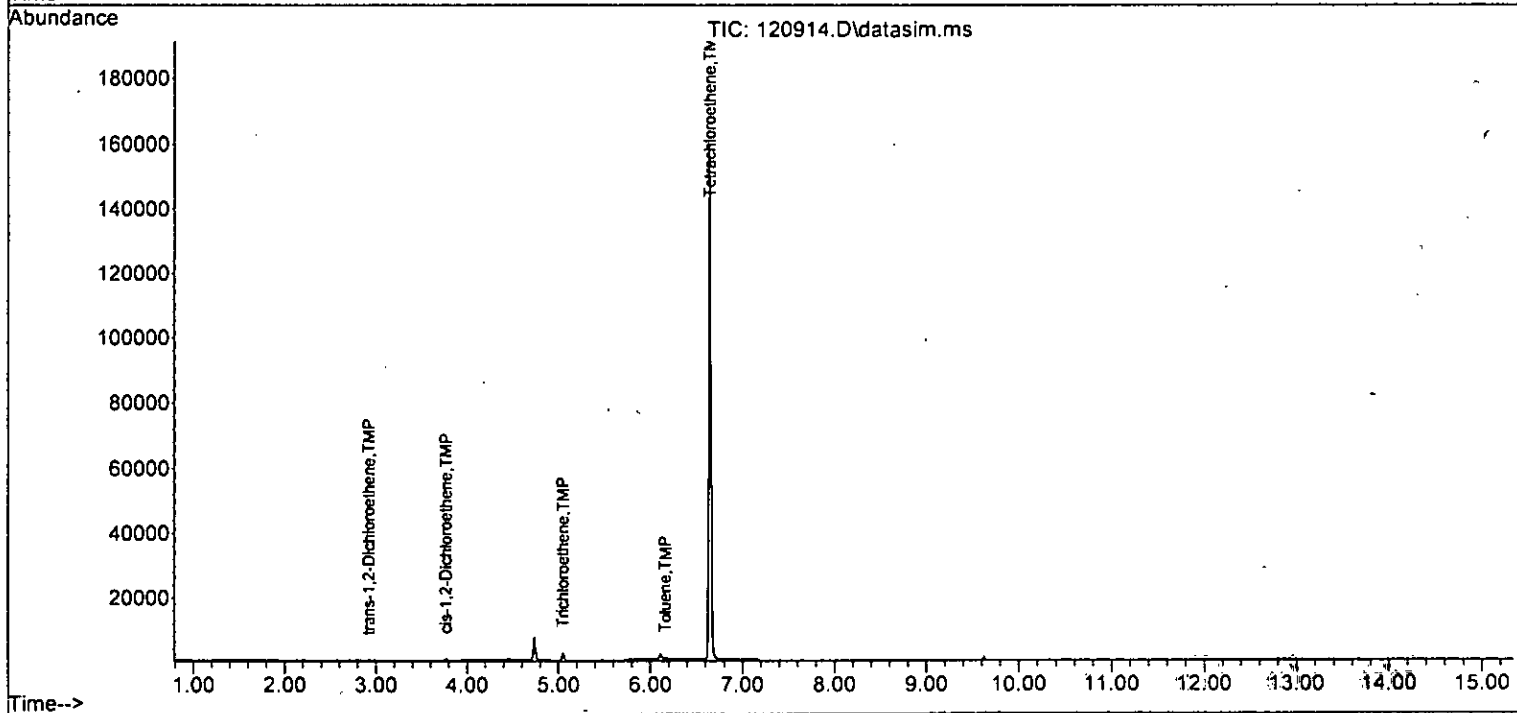
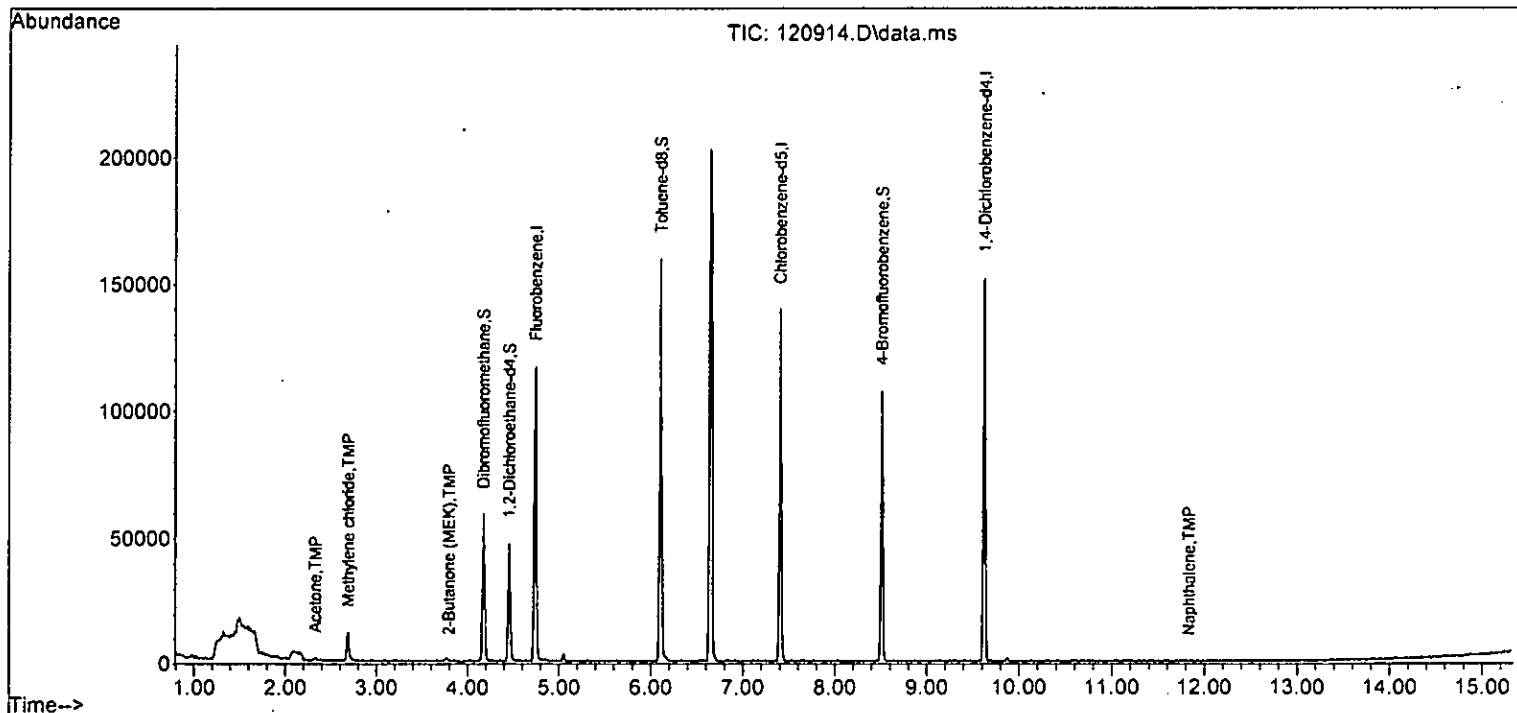
Quant Time: Dec 12 07:59:11 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	265	0.048	ppb	95
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.53	83	41		N.D.	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.65	164	55833	18.557	ppb	97
46) Dibromochloromethane	6.95	129	52		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	156	Below Cal		85
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.65	106	201	Below Cal		85
52] o-Xylene	8.02	106	77	Below Cal		78
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.76	91	29		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.94	105	43		N.D.	
61) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.76	91	29		N.D.	
64) 4-Chlorotoluene	8.96	91	43		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.30	105	279		N.D.	
67) sec-Butylbenzene	9.30	105	279		N.D.	
68) p-Isopropyltoluene	0.00		0		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.83	128	173	0.024	ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120914.D  
 Acq On : 09 Dec 2022 01:58 pm  
 Operator : lm  
 Sample : 212113-03  
 Misc : water  
 ALS Vial : 10 Sample Multiplier: 1  
 InstName : GCMS13

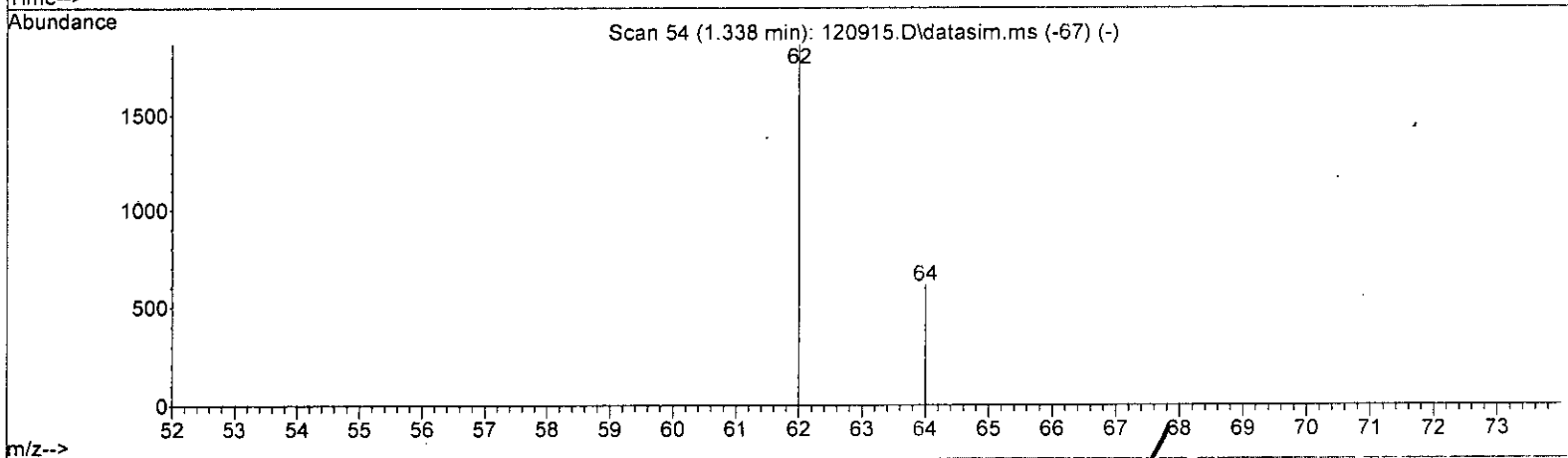
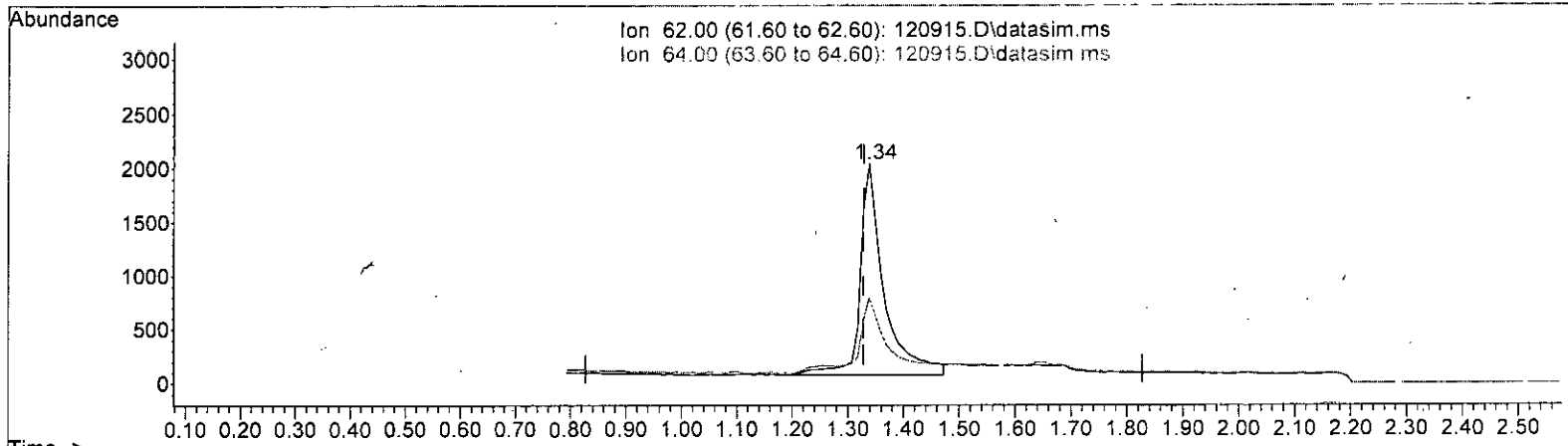
Quant Time: Dec 12 07:59:11 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120915.D  
 Acq On : 09 Dec 2022 02:21 pm  
 Operator : lm  
 Sample : 212113-04 1/5  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:15 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120915.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 1.692 ppb

response 5799

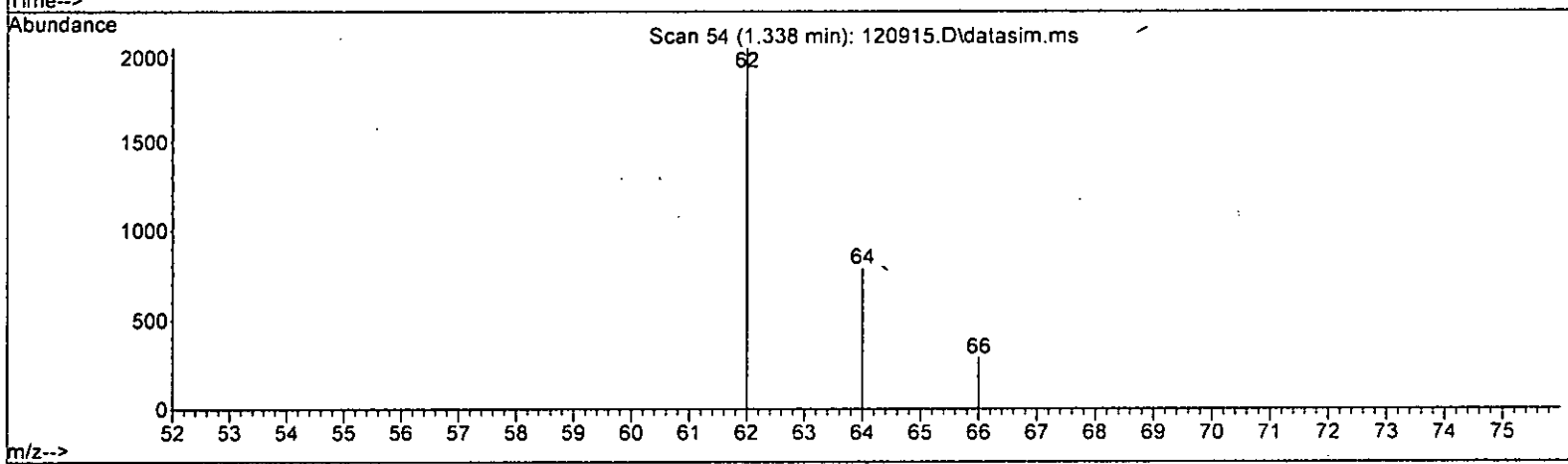
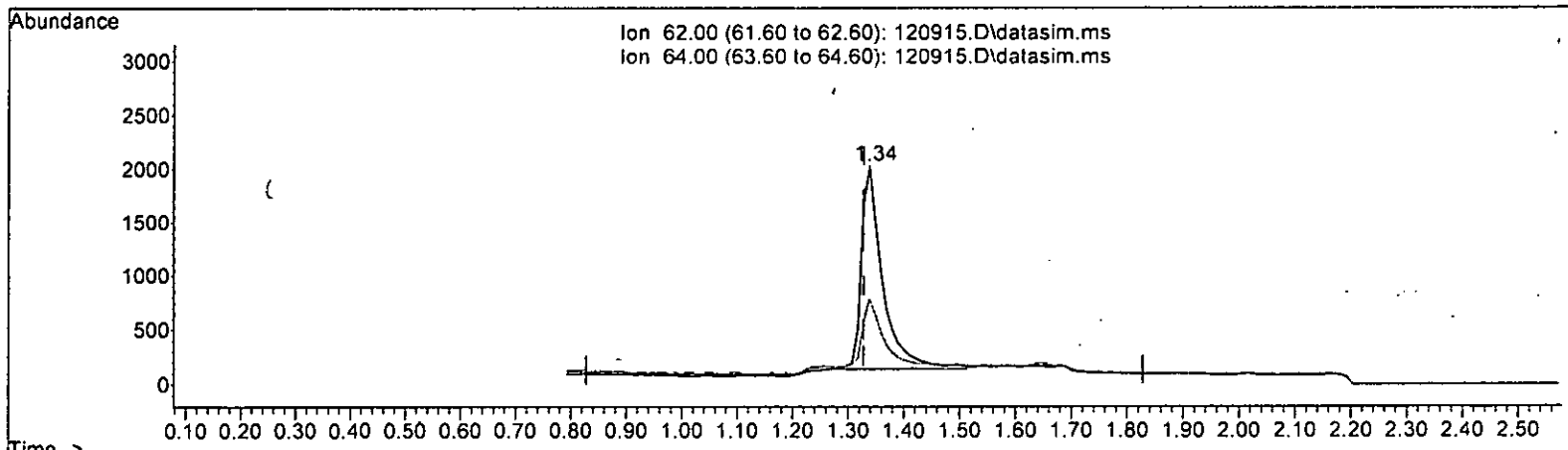
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	35.14
0.00	0.00	0.00
0.00	0.00	0.00

*m/z 2,2*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120915.D  
 Acq On : 09 Dec 2022 02:21 pm  
 Operator : lm  
 Sample : 212113-04 1/5  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:15 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120915.D\data.ms

(6) Vinyl chloride (TMP) M12.2

1.338min (+ 0.010) 1.444 ppb m

response 4949

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	38.77
0.00	0.00	0.00
0.00	0.00	0.00



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120915.D  
 Acq On : 09 Dec 2022 02:21 pm  
 Operator : lm  
 Sample : 212113-04 1/5  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS13

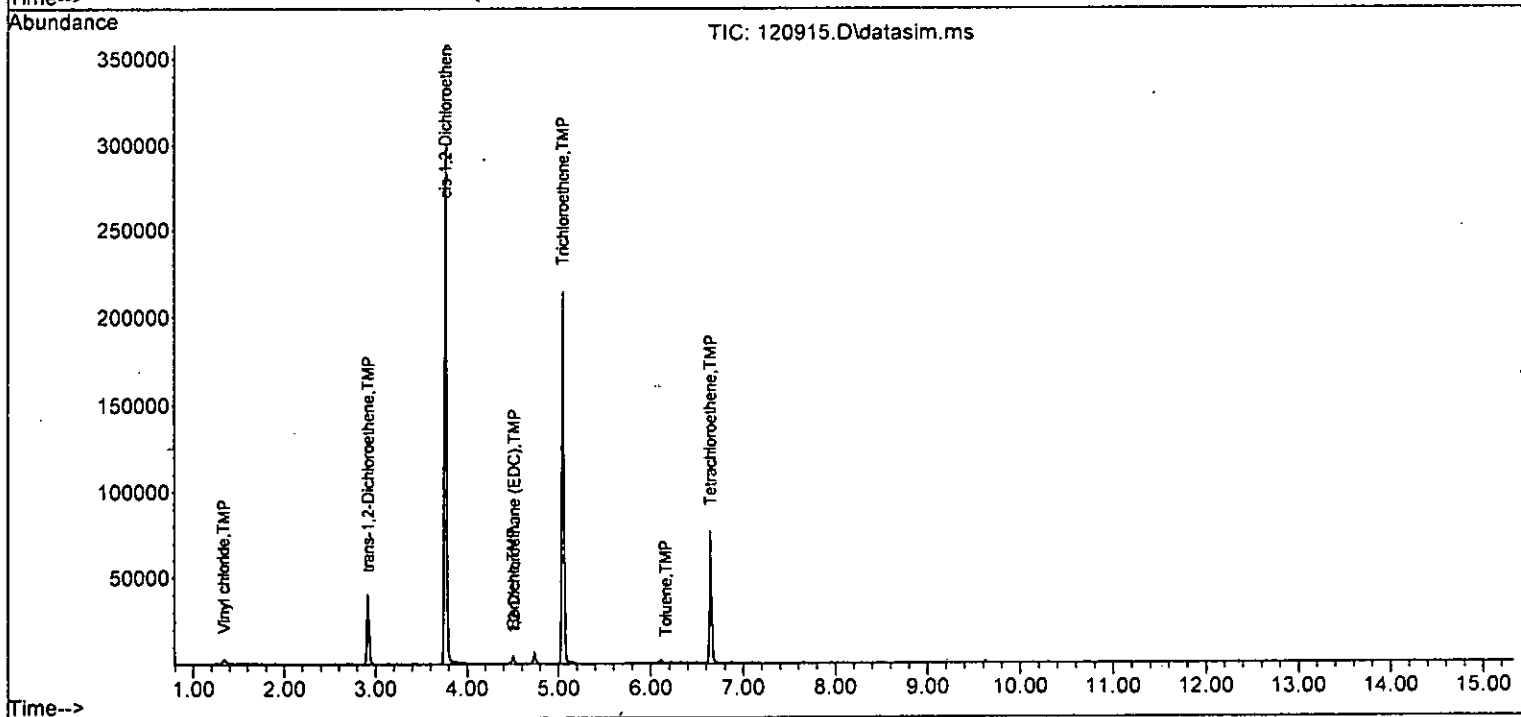
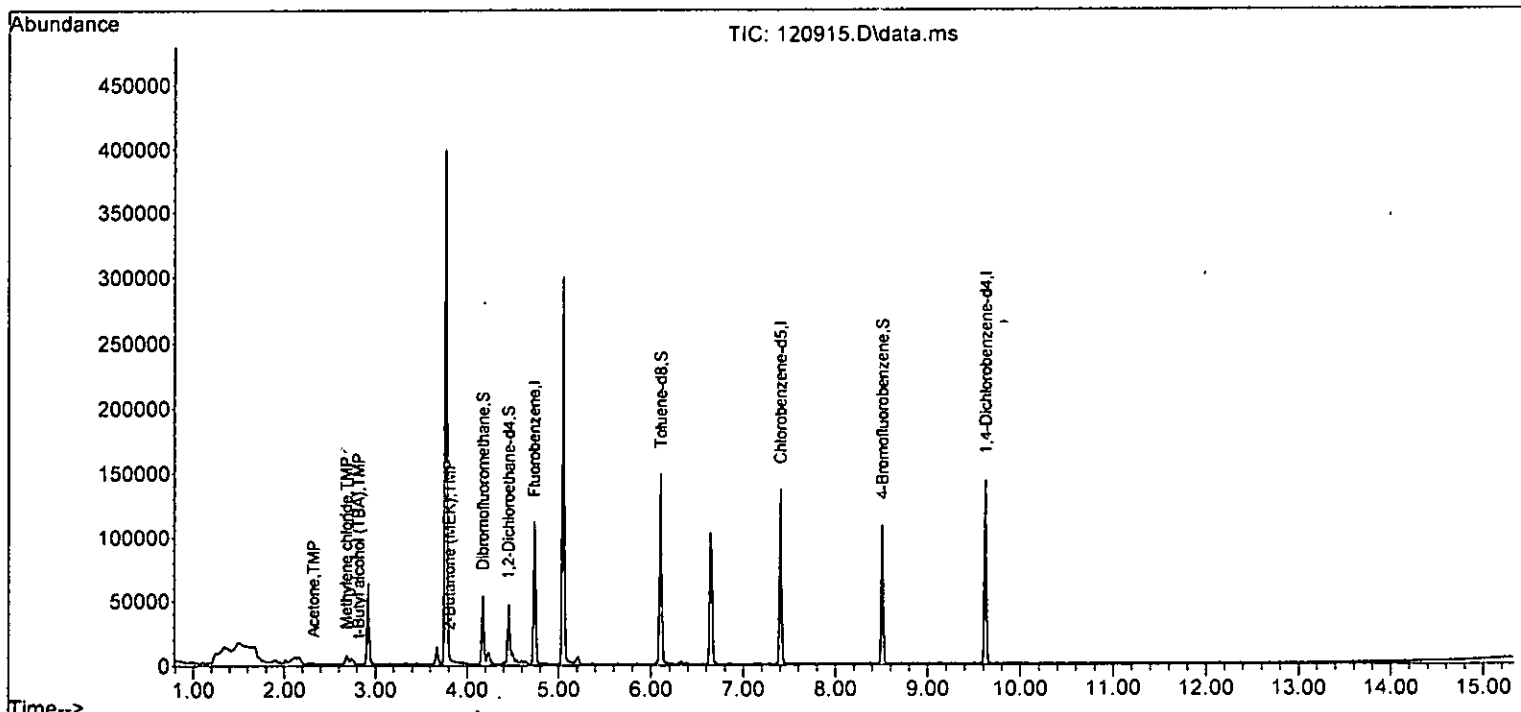
Quant Time: Dec 12 07:59:15 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

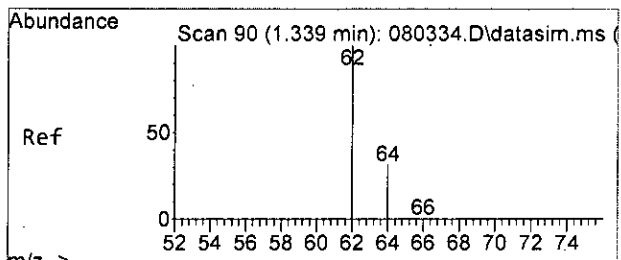
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.73	96	91818	10.000	ppb	0.00
39) Chlorobenzene-d5	7.41	117	67123	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	35354	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.18	113	25053	8.565	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	85.70%	
30) 1,2-Dichloroethane-d4	4.45	102	5067	9.243	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	92.40%	
35) Toluene-d8	6.11	98	85483	10.358	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	103.60%	
57) 4-Bromofluorobenzene	8.51	95	28028	13.083	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	130.80%	
<b>Target Compounds</b>						
6] Vinyl chloride	1.34	62	4949m	1.444	ppb	Qvalue
11) Acetone	2.32	58	282	3.112	ppb	# 83
13) Hexane	3.16	57	348	Below Cal		# 48
14) Methylene chloride	2.68	84	3170	0.748	ppb	90
15) t-Butyl alcohol (TBA)	2.82	59	121	0.591	ppb	78
17] trans-1,2-Dichloroethene	2.92	96	23981	9.519	ppb	95
21) 2,2-Dichloropropane	3.80	77	138	Below Cal		# 1
22] cis-1,2-Dichloroethene	3.77	96	171166	62.927	ppb	95
24) 2-Butanone (MEK)	3.81	43	203	0.805	ppb	57
26] 1,2-Dichloroethane (EDC)	4.52	62	140	0.031	ppb	80
31] Benzene	4.50	78	6419	0.871	ppb	99
32] Trichloroethene	5.05	95	83877	30.042	ppb	# 74
33) 1,2-Dichloropropane	5.17	63	72	Below Cal		# 81
40] Toluene	6.16	92	113	0.018	ppb	96
45] Tetrachloroethene	6.65	164	26258	8.993	ppb	98
49] Ethylbenzene	7.54	91	136	Below Cal		97
51] m,p-Xylene	7.65	106	85	Below Cal		94
52] o-Xylene	8.02	106	33	Below Cal		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120915.D  
 Acq On : 09 Dec 2022 02:21 pm  
 Operator : lm  
 Sample : 212113-04 1/5  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS13

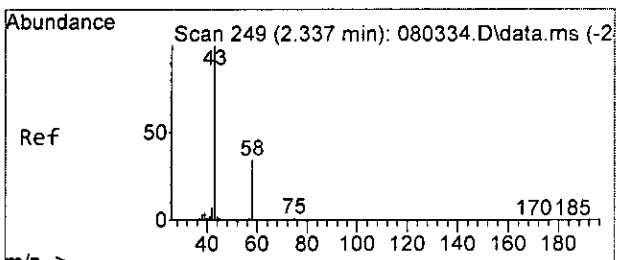
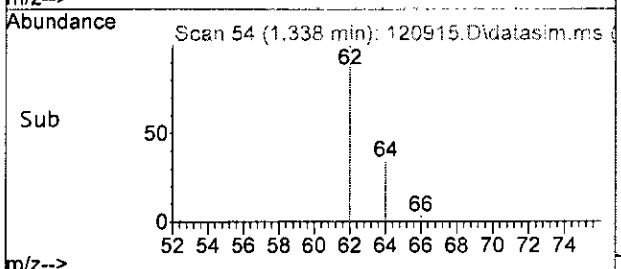
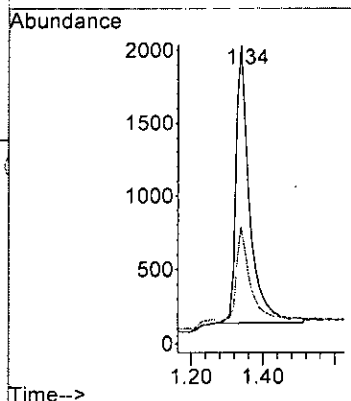
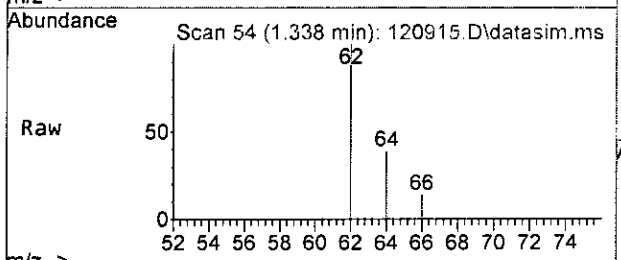
Quant Time: Dec 12 07:59:15 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M





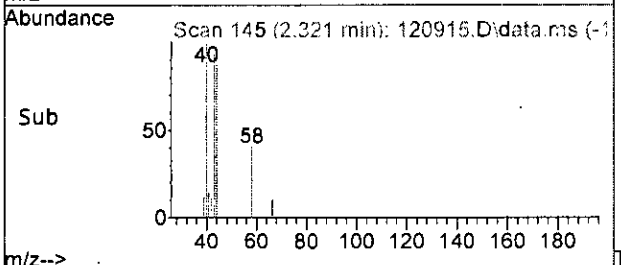
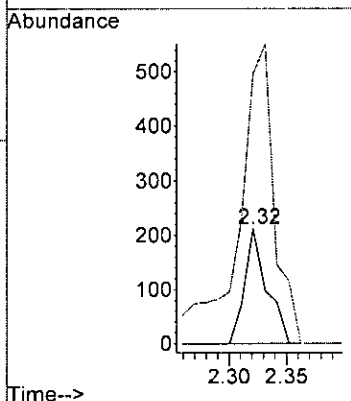
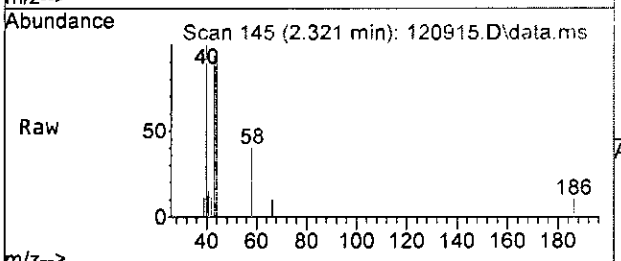
#6  
 Vinyl chloride  
 Concen: 1.444 ppb m  
 RT: 1.34 min Scan# 54  
 Delta R.T. 0.010 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

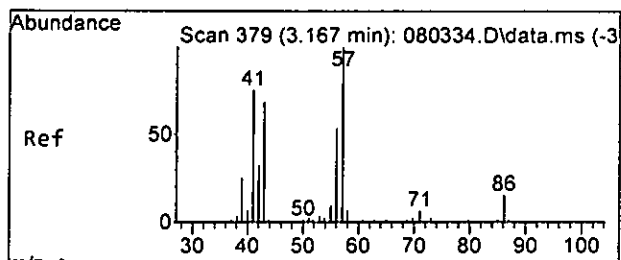
Tgt Ion: 62 Resp: 4949  
 Ion Ratio Lower Upper  
 62 100  
 64 38.8 0.2 60.2



#11  
 Acetone  
 Concen: 3.112 ppb  
 RT: 2.32 min Scan# 145  
 Delta R.T. 0.000 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

Tgt Ion: 58 Resp: 282  
 Ion Ratio Lower Upper  
 58 100  
 43 419.5 350.8 410.8#

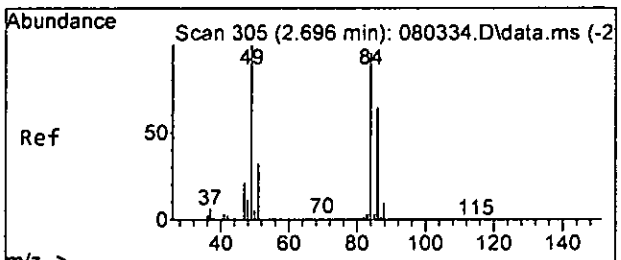
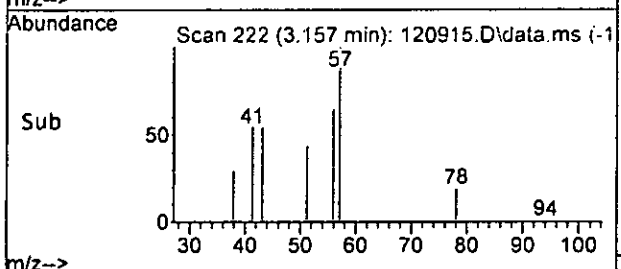
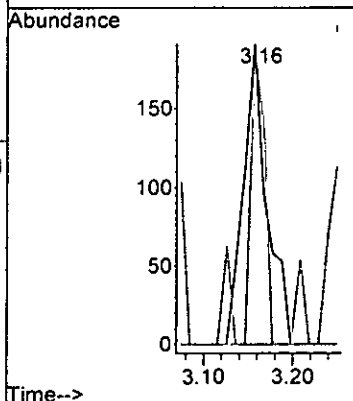
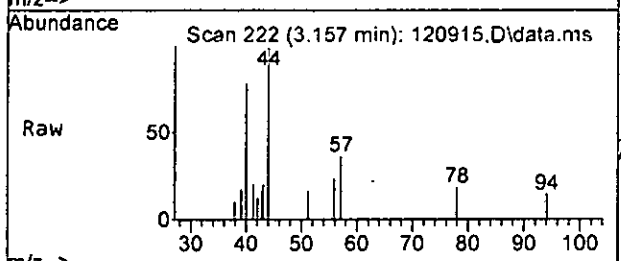




#13  
 Hexane  
 Concen: Below Cal  
 RT: 3.16 min Scan# 222  
 Delta R.T. -0.000 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

Tgt Ion: 57 Resp: 348

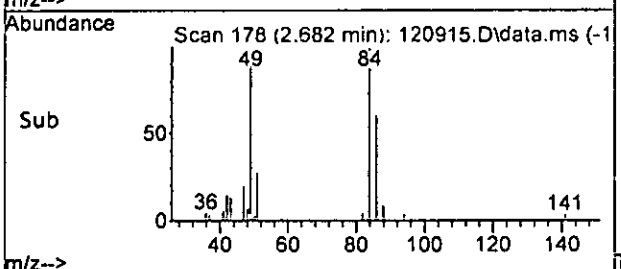
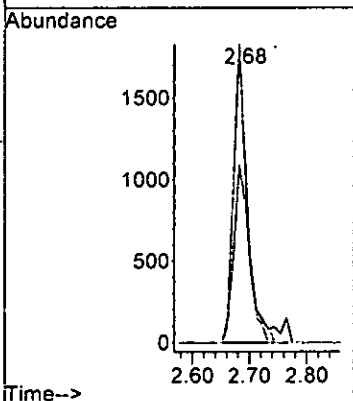
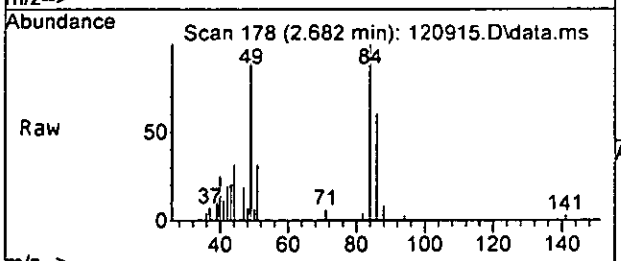
Ion	Ratio	Lower	Upper
57	100		
43	99.5	28.8	88.8#
86	0.0	0.0	51.0

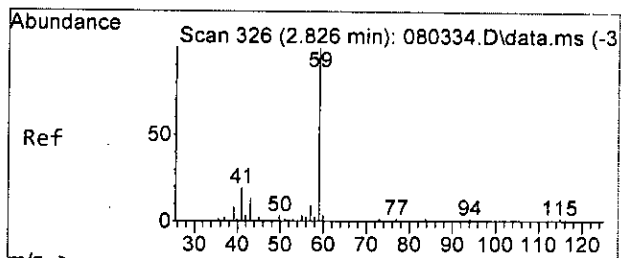


#14  
 Methylene chloride  
 Concen: 0.748 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. 0.000 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

Tgt Ion: 84 Resp: 3170

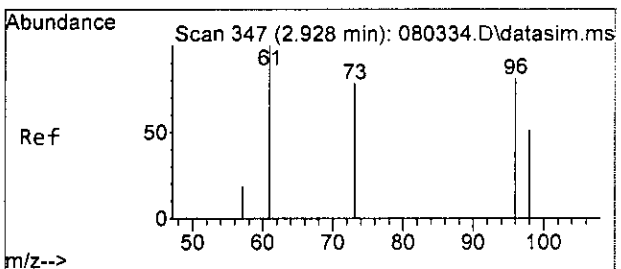
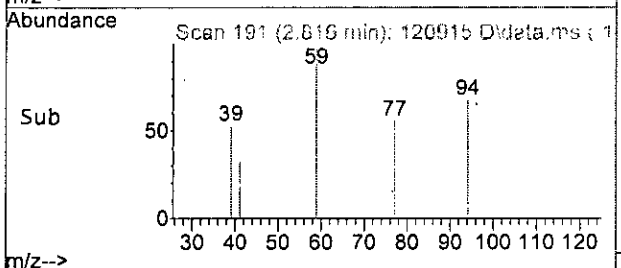
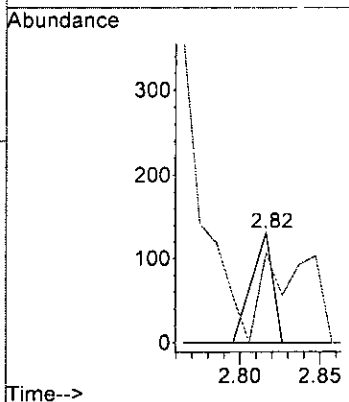
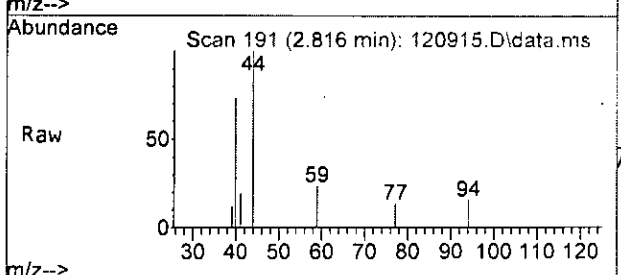
Ion	Ratio	Lower	Upper
84	100		
86	60.0	41.2	101.2
49	92.6	69.2	129.2





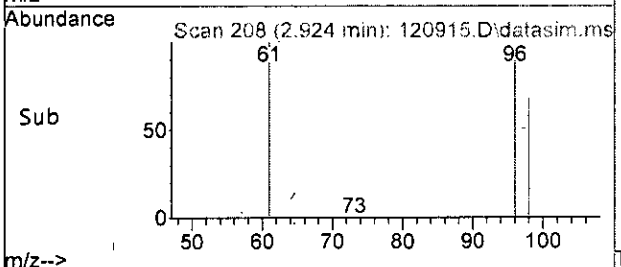
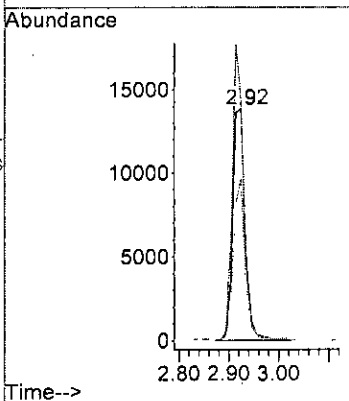
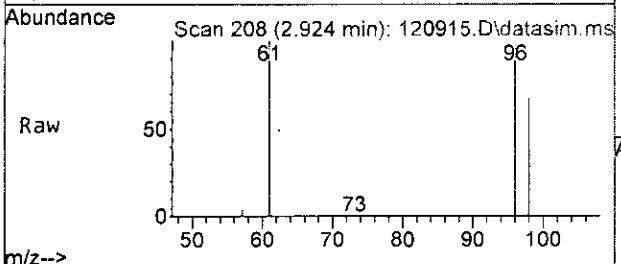
#15  
 t-Butyl alcohol (TBA)  
 Concen: 0.591 ppb  
 RT: 2.82 min Scan# 191  
 Delta R.T. 0.010 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

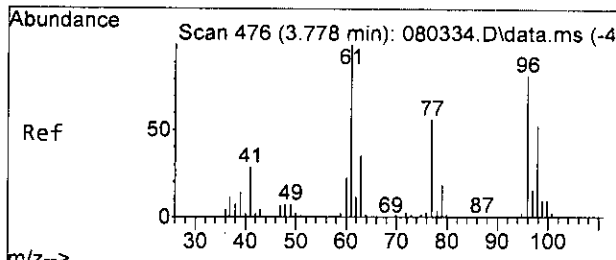
Tgt Ion: 59 Resp: 121  
 Ion Ratio Lower Upper  
 59 100  
 41 10.7 0.0 50.8



#17  
 trans-1,2-Dichloroethene  
 Concen: 9.519 ppb  
 RT: 2.92 min Scan# 208  
 Delta R.T. 0.010 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

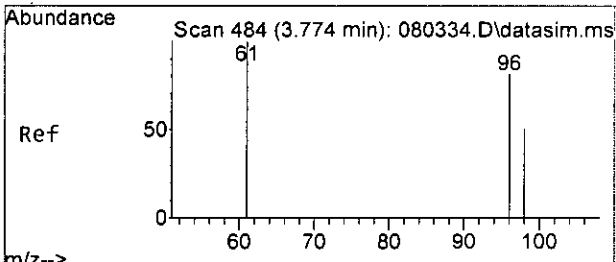
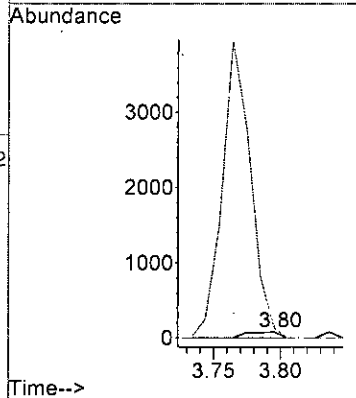
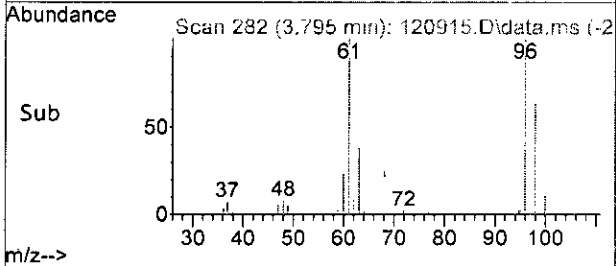
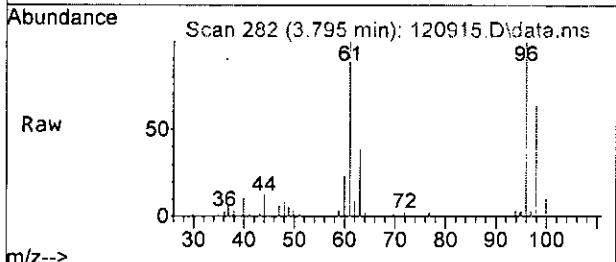
Tgt Ion: 96 Resp: 23981  
 Ion Ratio Lower Upper  
 96 100  
 61 103.2 77.0 137.0  
 98 69.3 32.7 92.7





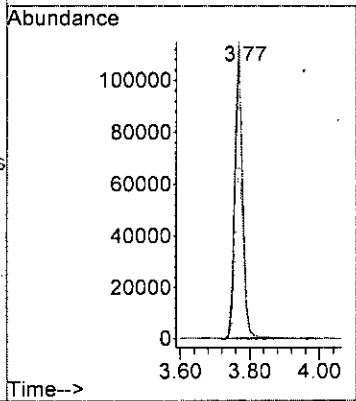
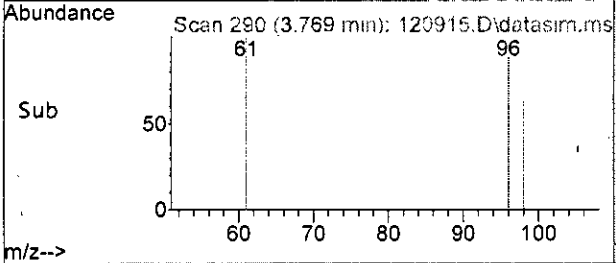
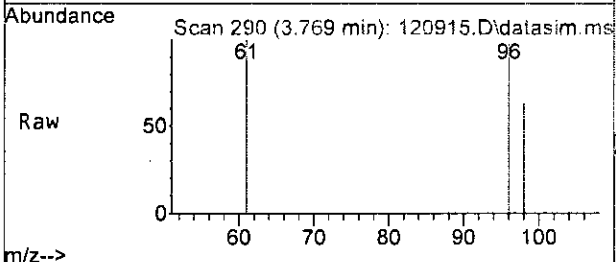
#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.80 min Scan# 282  
 Delta R.T. 0.031 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

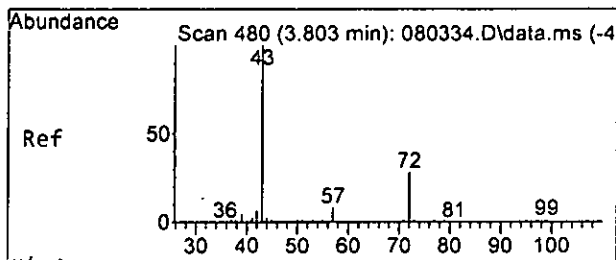
Tgt Ion: 77 Resp: 138  
 Ion Ratio Lower Upper  
 77 100  
 97 173.4 2.0 62.0#



#22  
 cis-1,2-Dichloroethene  
 Concen: 62.927 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. 0.000 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

Tgt Ion: 96 Resp: 171166  
 Ion Ratio Lower Upper  
 96 100  
 61 103.4 67.0 127.0  
 98 65.3 38.1 98.1

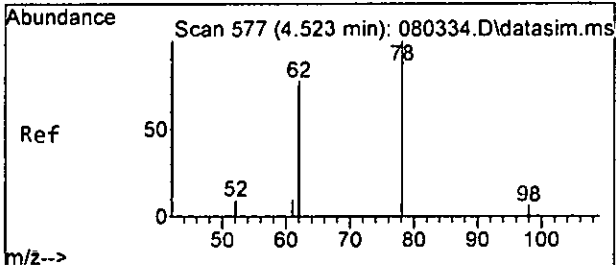
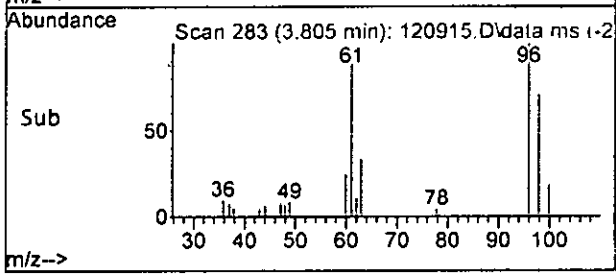
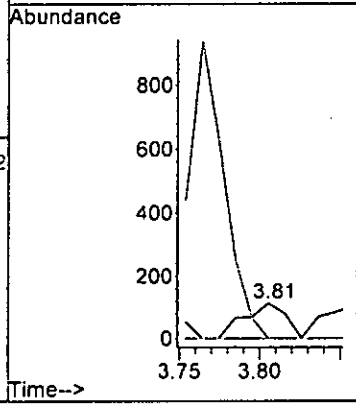
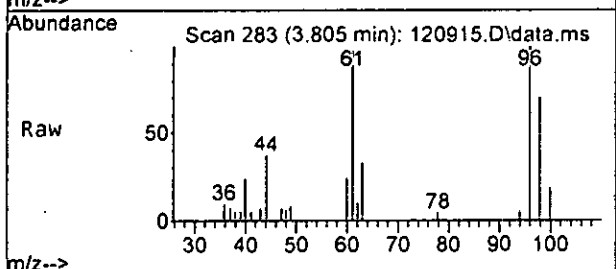




#24  
 2-Butanone (MEK)  
 Concen: 0.805 ppb  
 RT: 3.81 min Scan# 283  
 Delta R.T. 0.021 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

Tgt Ion: 43 Resp: 203

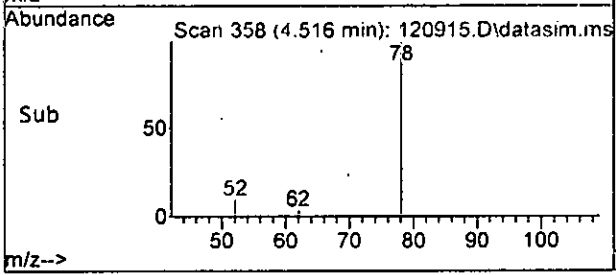
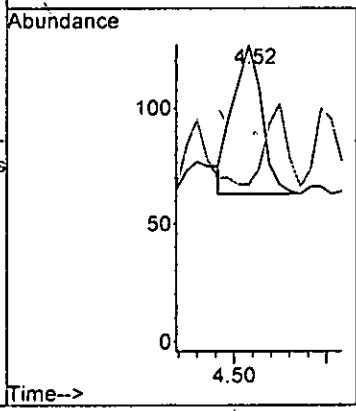
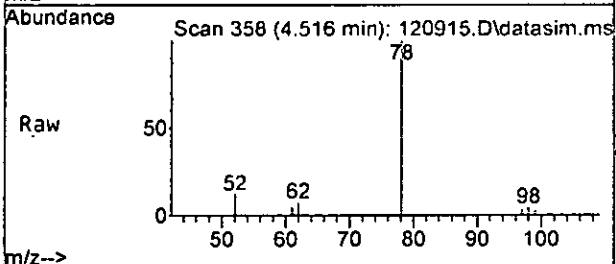
Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	54.9
57	0.0	0.0	28.8

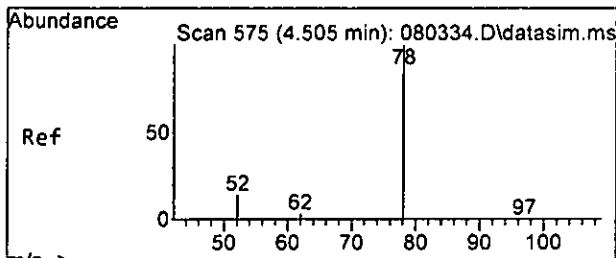


#26  
 1,2-Dichloroethane (EDC)  
 Concen: 0.031 ppb  
 RT: 4.52 min Scan# 358  
 Delta R.T. -0.000 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

Tgt Ion: 62 Resp: 140

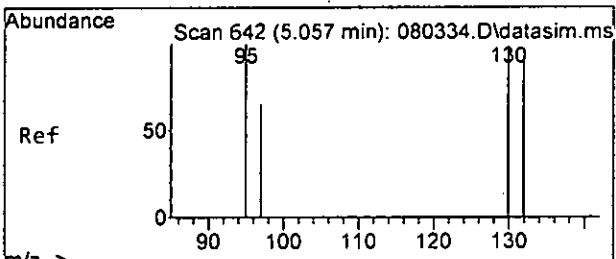
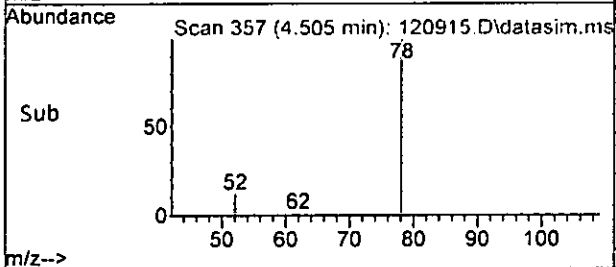
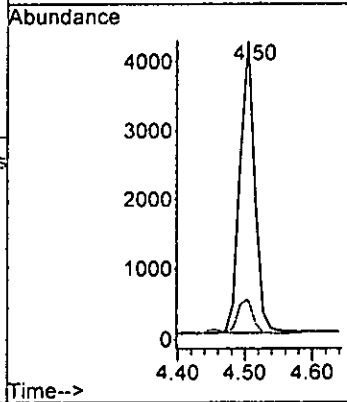
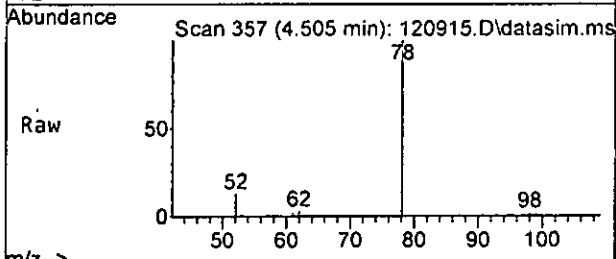
Ion	Ratio	Lower	Upper
62	100		
98	1.6	0.0	38.9





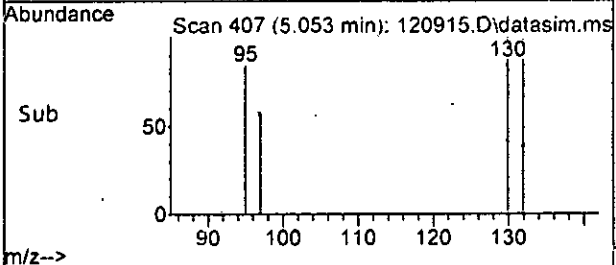
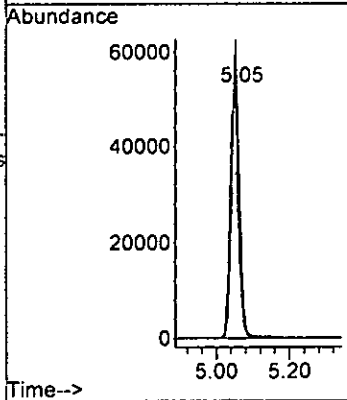
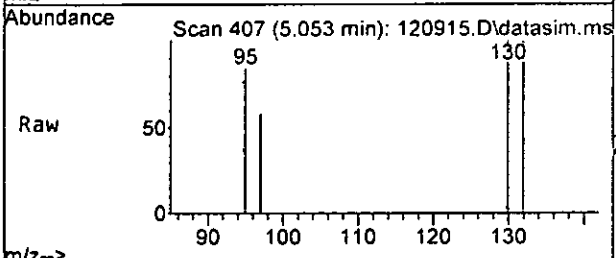
#31  
Benzene  
Concen: 0.871 ppb  
RT: 4.50 min Scan# 357  
Delta R.T. -0.000 min  
Lab File: 120915.D  
Acq: 09 Dec 2022 02:21 pm

Tgt Ion: 78 Resp: 6419  
Ion Ratio Lower Upper  
78 100  
52 11.6 0.0 42.0

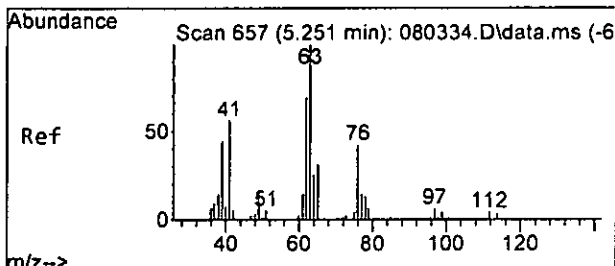


#32  
Trichloroethene  
Concen: 30.042 ppb  
RT: 5.05 min Scan# 407  
Delta R.T. -0.000 min  
Lab File: 120915.D  
Acq: 09 Dec 2022 02:21 pm

Tgt Ion: 95 Resp: 83877  
Ion Ratio Lower Upper  
95 100  
97 69.0 39.9 99.9  
130 119.5 131.0 191.0#  
132 119.3 130.1 190.1#

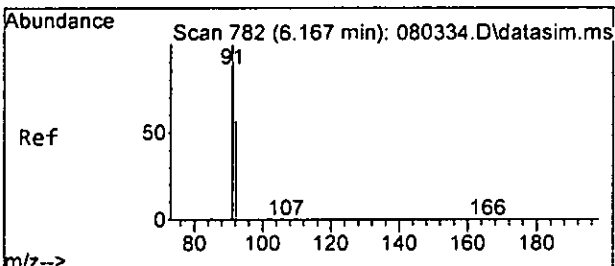
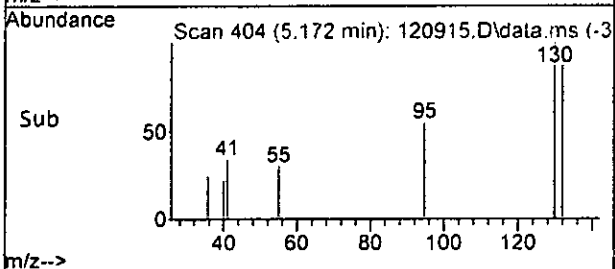
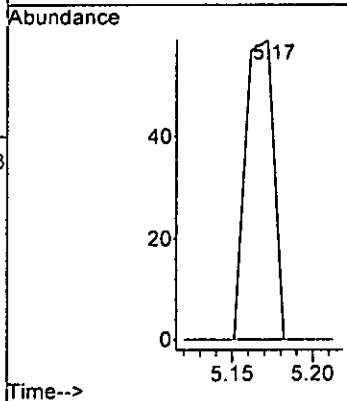
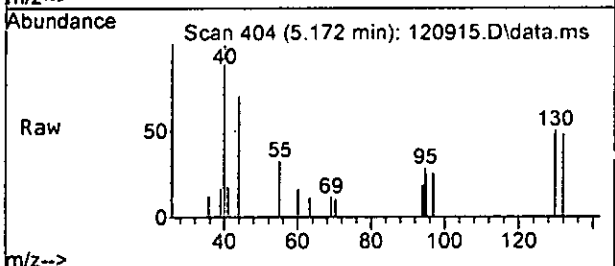






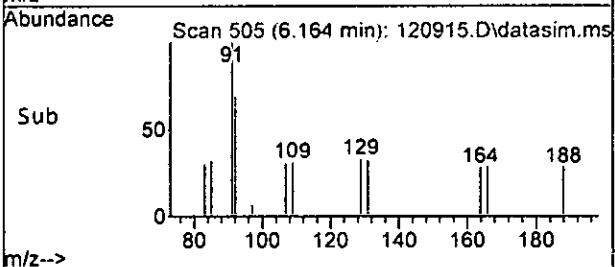
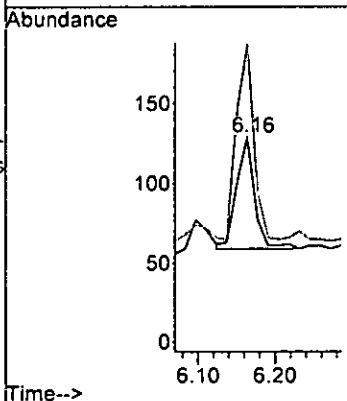
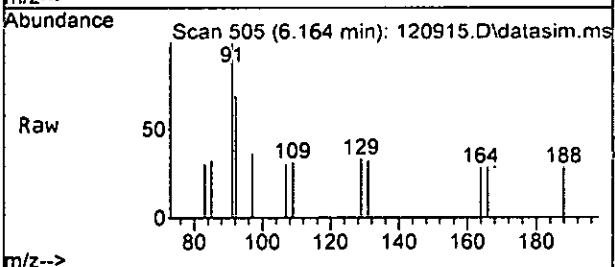
#33  
 1,2-Dichloropropane  
 Concen: Below Cal  
 RT: 5.17 min Scan# 404  
 Delta R.T. -0.072 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

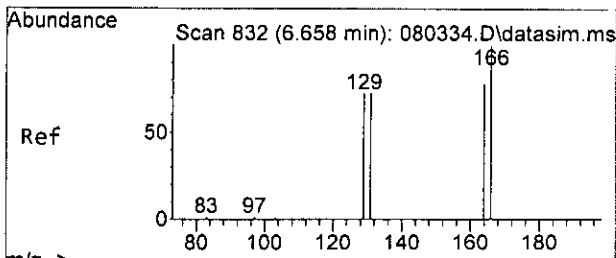
Tgt Ion: 63 Resp: 72  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 0.0 36.5



#40  
 Toluene  
 Concen: 0.018 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. 0.000 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

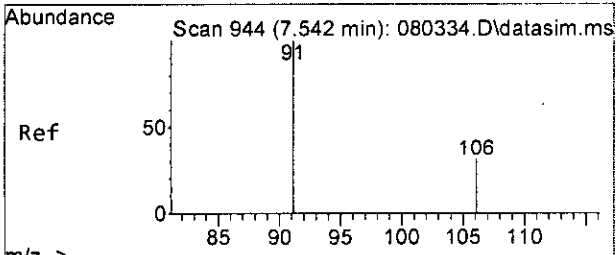
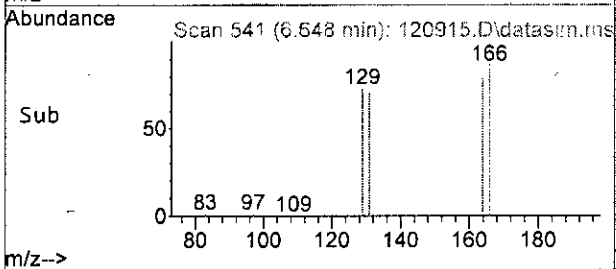
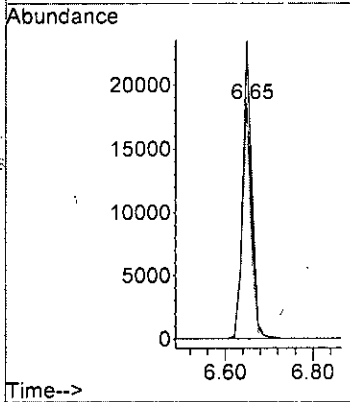
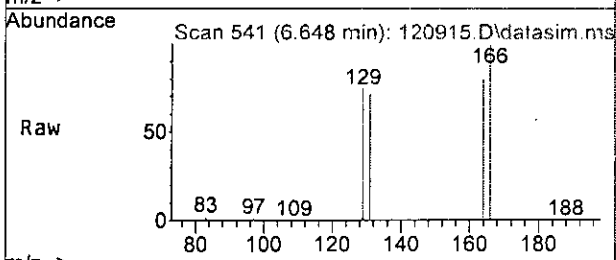
Tgt Ion: 92 Resp: 113  
 Ion Ratio Lower Upper  
 92 100  
 91 172.9 137.5 197.5





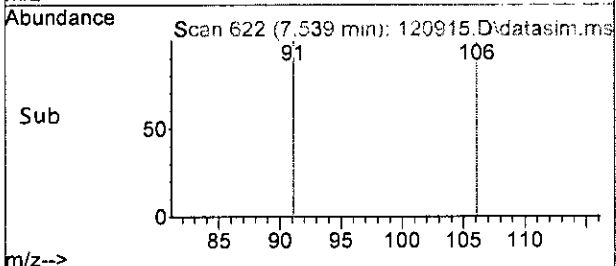
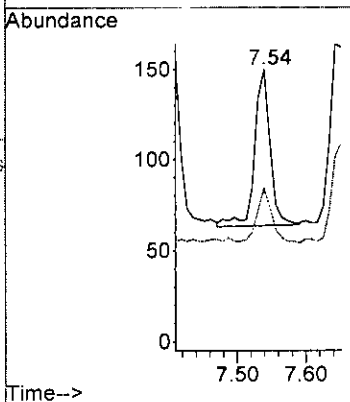
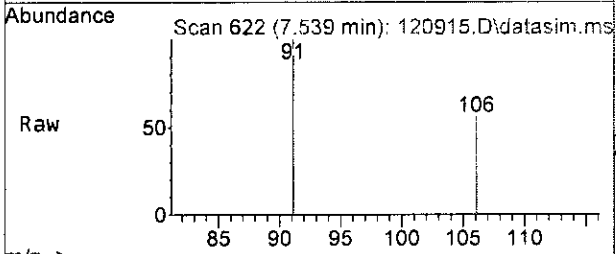
#45  
 Tetrachloroethene  
 Concen: 8.993 ppb  
 RT: 6.65 min Scan# 541  
 Delta R.T. 0.000 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

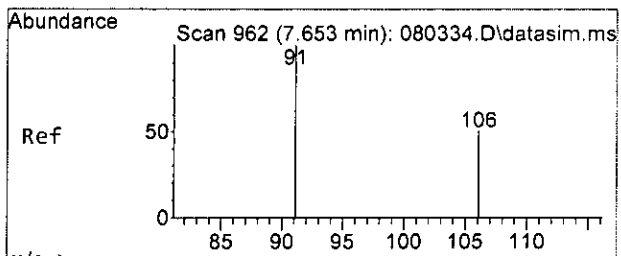
Tgt Ion	Resp	Lower	Upper
164	100		
129	93.2	60.6	120.6
131	90.4	58.0	118.0
166	126.8	95.8	155.8



#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. 0.000 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

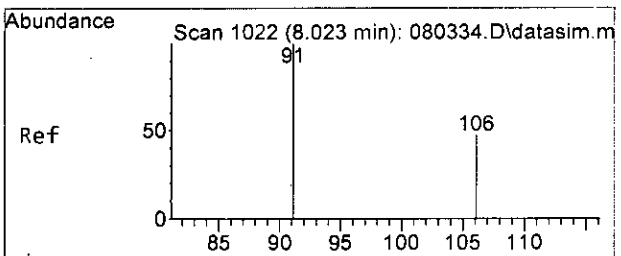
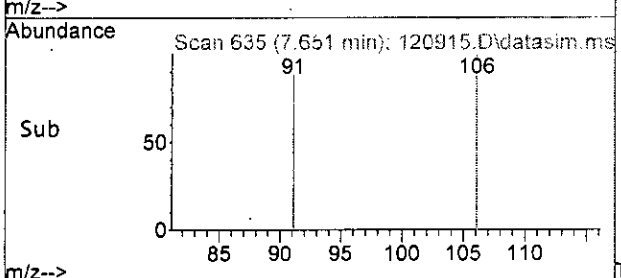
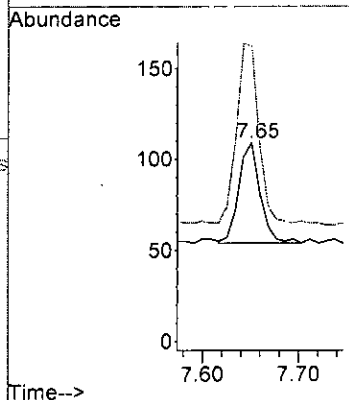
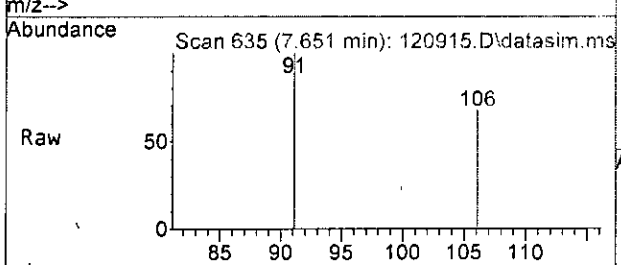
Tgt Ion	Resp	Lower	Upper
91	100		
106	35.3	7.1	67.1





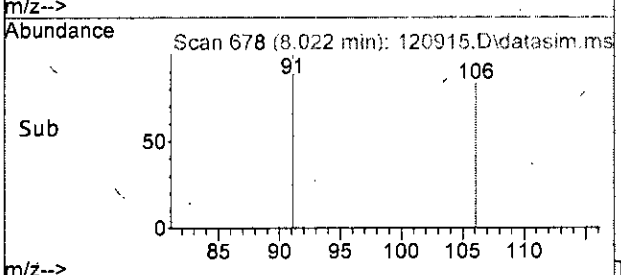
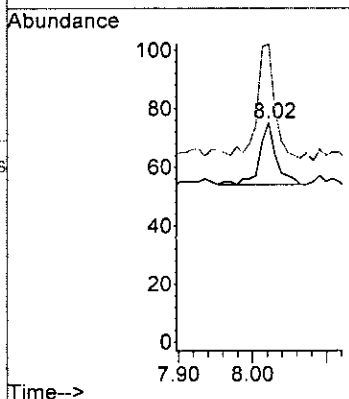
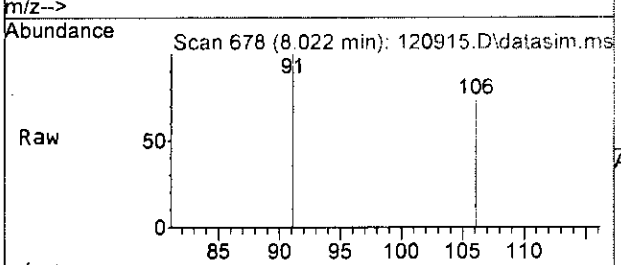
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

Tgt Ion: 106 Resp: 85  
 Ion Ratio Lower Upper  
 106 100  
 91 176.4 138.1 198.1



#52  
 o-Xylene  
 Concen: Below Cal  
 RT: 8.02 min Scan# 678  
 Delta R.T. -0.000 min  
 Lab File: 120915.D  
 Acq: 09 Dec 2022 02:21 pm

Tgt Ion: 106 Resp: 33  
 Ion Ratio Lower Upper  
 106 100  
 91 185.7 143.9 203.9



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120915.D  
 Acq On : 09 Dec 2022 02:21 pm  
 Operator : lm  
 Sample : 212113-04 1/5  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:15 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.73	96	91818	10.000	ppb	0.00
39) Chlorobenzene-d5	7.41	117	67123	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	35354	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.18	113	25053	8.565	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	85.70%
30) 1,2-Dichloroethane-d4	4.45	102	5067	9.243	ppb	0.00
Spiked Amount	10.000	Range	71 - 132	Recovery	=	92.40%
35) Toluene-d8	6.11	98	85483	10.358	ppb	0.00
Spiked Amount	10.000	Range	68 - 139	Recovery	=	103.60%
57) 4-Bromofluorobenzene	8.51	95	28028	13.083	ppb	0.00
Spiked Amount	10.000	Range	62 - 136	Recovery	=	130.80%
<b>Target Compounds</b>						
2) Ethanol	2.31	45	33	No Calib		
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.28	50	665	N.D.		
6] Vinyl chloride	1.34	62	4949m	1.444	ppb	
7) Bromomethane	0.00		0	N.D.	d	
8) Chloroethane	0.00		0	N.D.	d	
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	2.31	45	33	No Calib		
11) Acetone	2.32	58	282	3.112	ppb #	83
12) 1,1-Dichloroethene	0.00		0	N.D.	d	
13) Hexane	3.16	57	348	Below Cal	#	48
14) Methylene chloride	2.68	84	3170	0.748	ppb	90
15) t-Butyl alcohol (TBA)	2.82	59	121	0.591	ppb	78
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17] trans-1,2-Dichloroethene	2.92	96	23981	9.519	ppb	95
18) Diisopropyl ether (DIPE)	0.00		0	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.80	77	138	Below Cal	#	1
22] cis-1,2-Dichloroethene	3.77	96	171166	62.927	ppb	95
23) Chloroform	4.05	83	109	N.D.		
24) 2-Butanone (MEK)	3.81	43	203	0.805	ppb	57
25) t-Amyl methyl ether (T...)	0.00		0	N.D.		
26] 1,2-Dichloroethane (EDC)	4.52	62	140	0.031	ppb	80
27) 1,1,1-Trichloroethane	0.00		0	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31] Benzene	4.50	78	6419	0.871	ppb	99
32] Trichloroethene	5.05	95	83877	30.042	ppb #	74
33) 1,2-Dichloropropane	5.17	63	72	Below Cal	#	81
34) Bromodichloromethane	0.00		0	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120915.D  
 Acq On : 09 Dec 2022 02:21 pm  
 Operator : lm  
 Sample : 212113-04 1/5  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS13

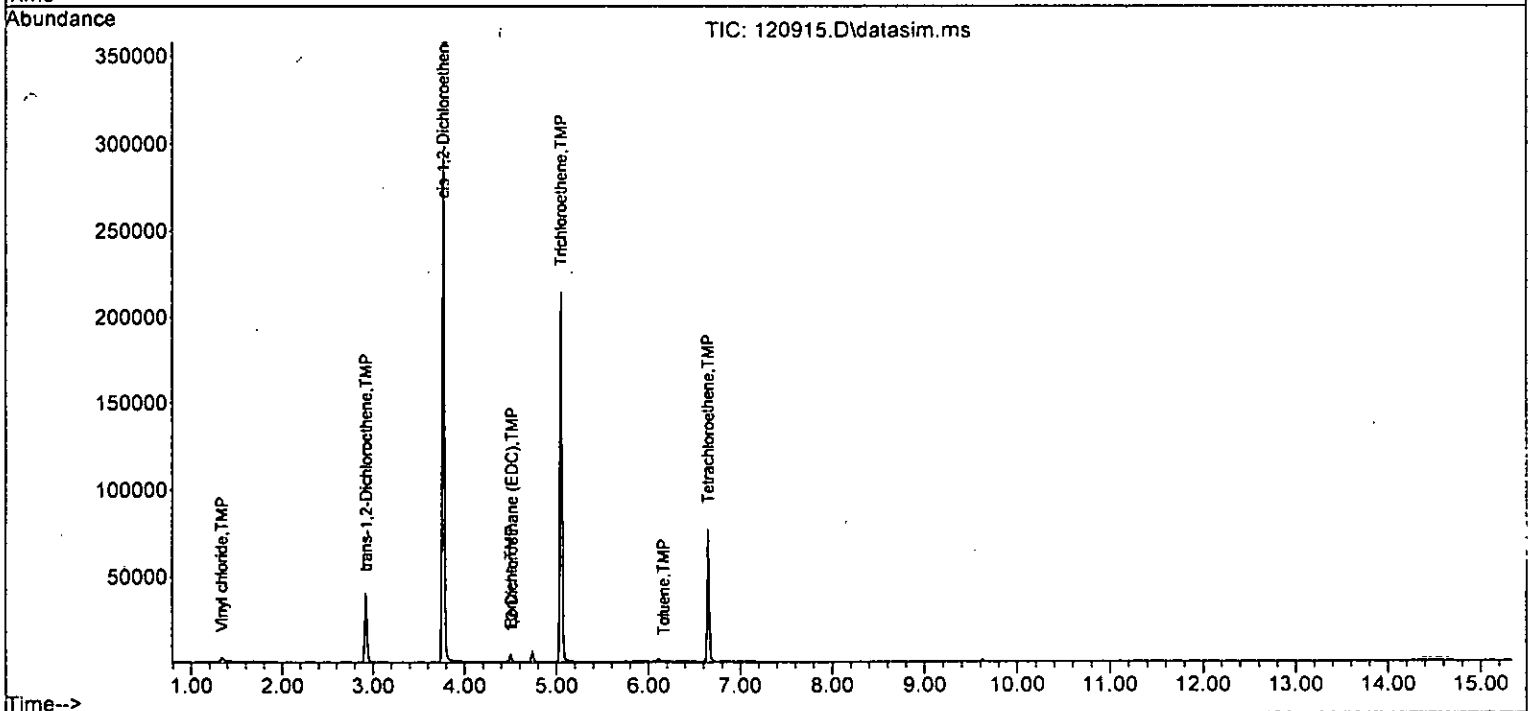
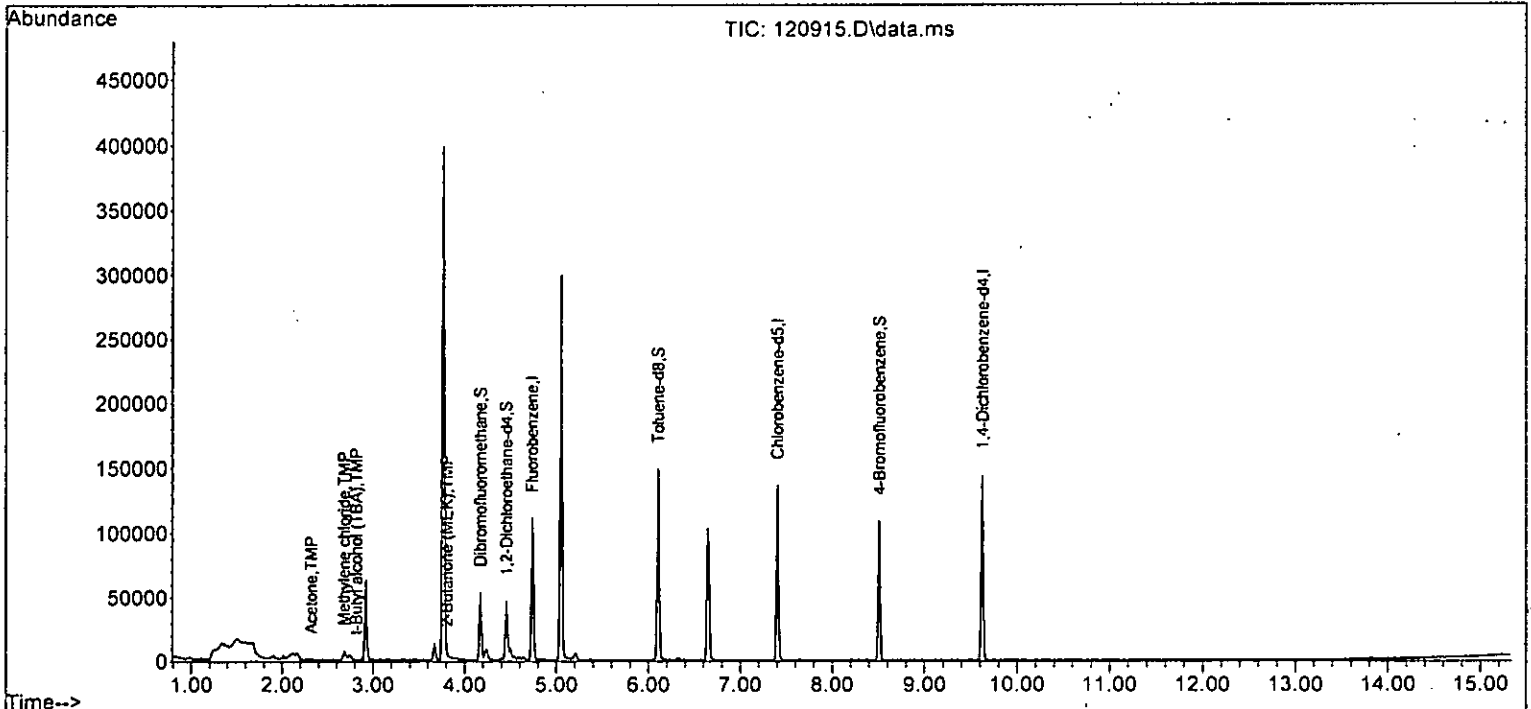
Quant Time: Dec 12 07:59:15 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	113	0.018	ppb	96
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.49	83	22		N.D.	
43) 2-Hexanone	6.79	43	68		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.65	164	26258	8.993	ppb	98
46) Dibromochloromethane	6.99	129	58		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	136	Below Cal		97
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.65	106	85	Below Cal		94
52] o-Xylene	8.02	106	33	Below Cal		91
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	8.37	105	156		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.95	91	80		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.95	91	80		N.D.	
64) 4-Chlorotoluene	8.95	91	80		N.D.	
65) tert-Butylbenzene	9.24	119	22		N.D.	
66) 1,2,4-Trimethylbenzene	9.31	105	54		N.D.	
67) sec-Butylbenzene	9.46	105	24		N.D.	
68) p-Isopropyltoluene	9.61	119	44		N.D.	
69) 1,3-Dichlorobenzene	9.55	146	24		N.D.	
70) 1,4-Dichlorobenzene	9.55	146	24		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.83	128	93		N.D.	
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120915.D  
 Acq On : 09 Dec 2022 02:21 pm  
 Operator : lm  
 Sample : 212113-04 1/5  
 Misc : water  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS13

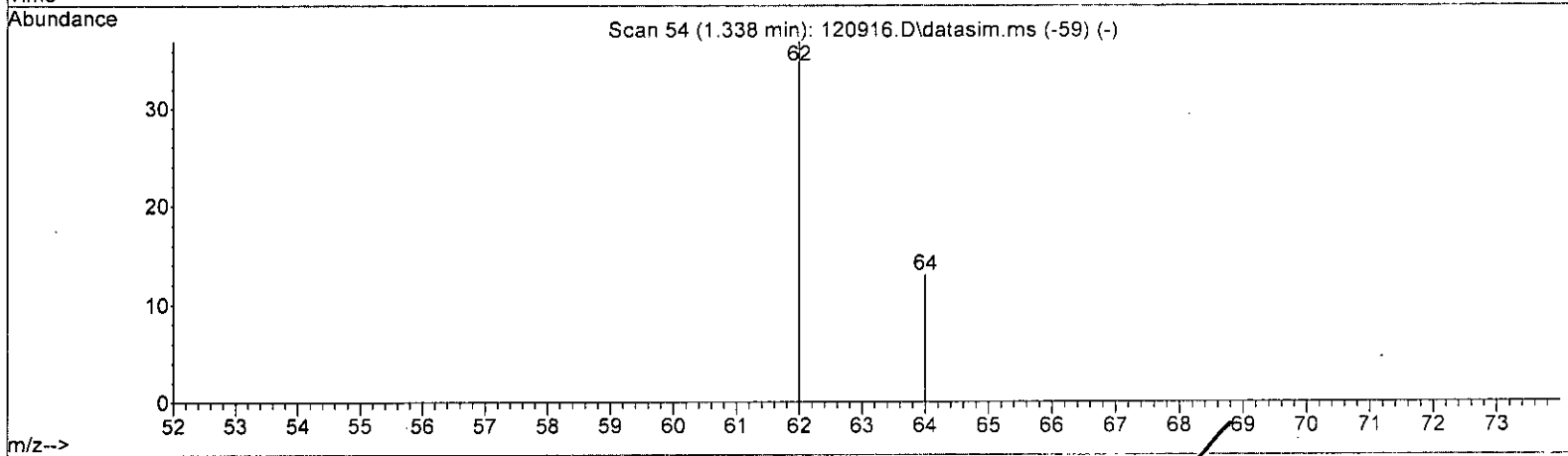
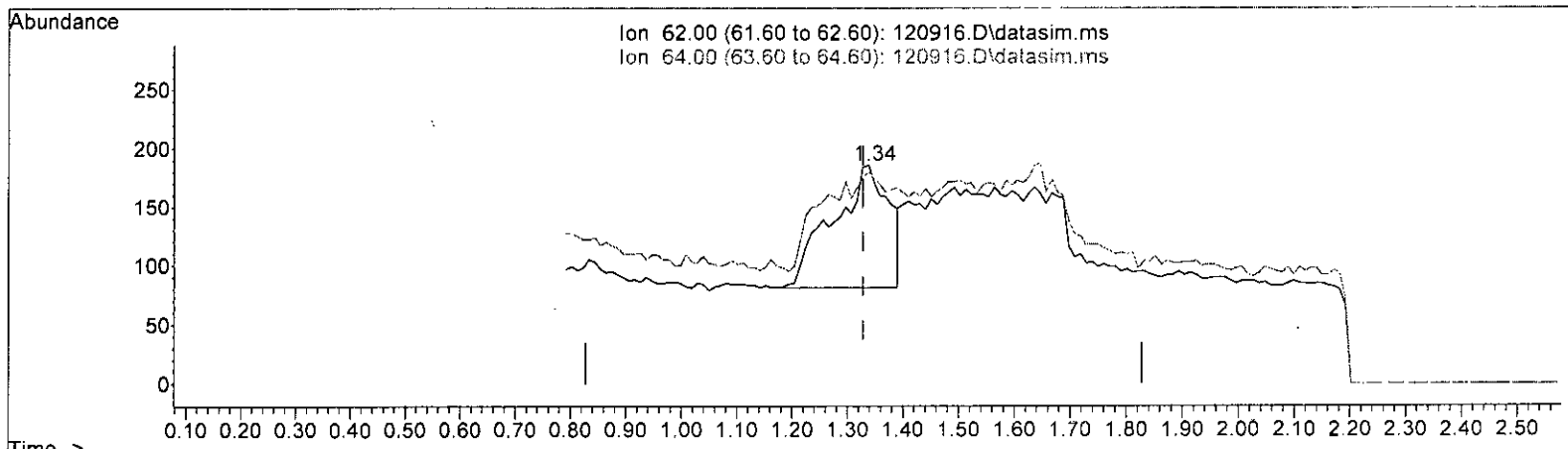
Quant Time: Dec 12 07:59:15 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120916.D  
 Acq On : 09 Dec 2022 02:44 pm  
 Operator : lm  
 Sample : 212113-05  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:19 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120916.D\data.ms

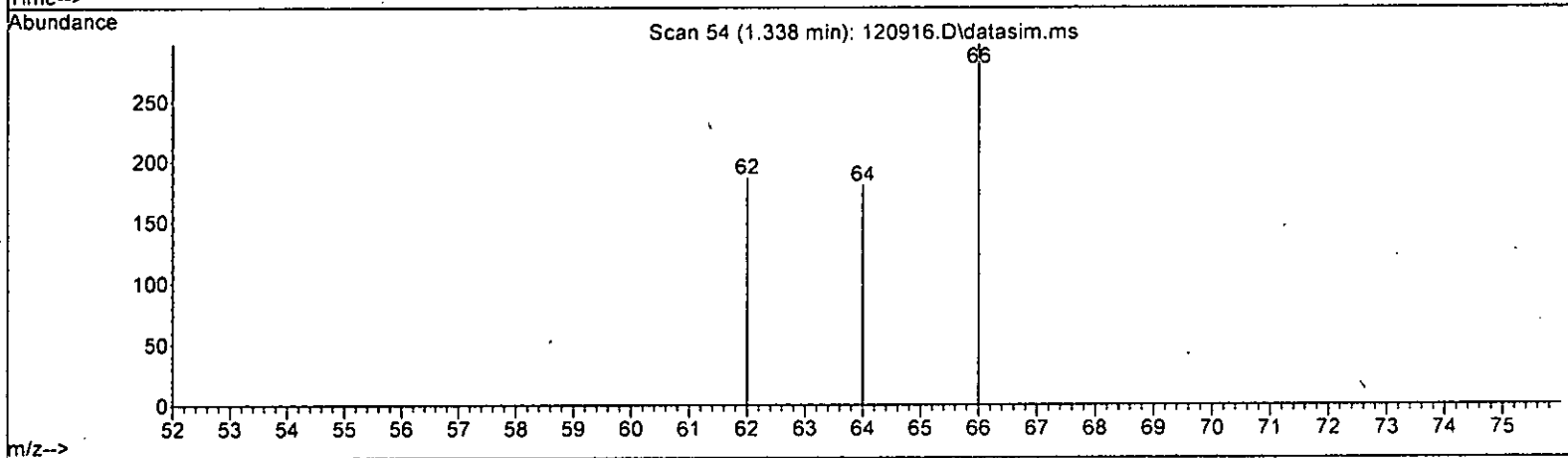
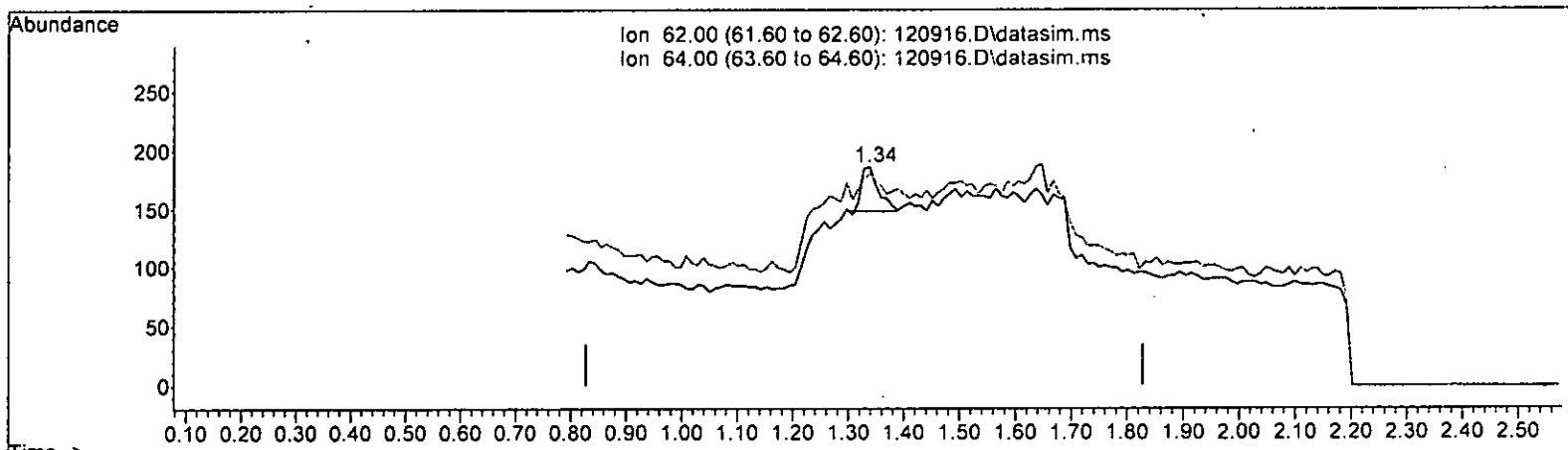
*MR*

(6) Vinyl chloride (TMP)		
Ion	Exp%	Act%
1.338min (+ 0.010)	0.204 ppb	
response	733	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	71.43#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120916.D  
 Acq On : 09 Dec 2022 02:44 pm  
 Operator : lm  
 Sample : 212113-0S  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:19 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



TIC: 120916.D\data.ms

(6) Vinyl chloride (TMP)

1.338min (+ 0.010) 0.022 ppb m

response 80

Ion	Exp%	Act%
62.00	100.00	100.00
64.00	30.20	96.77#
0.00	0.00	0.00
0.00	0.00	0.00

*lm 12.R*



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120916.D  
 Acq On : 09 Dec 2022 02:44 pm  
 Operator : lm  
 Sample : 212113-05  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS13

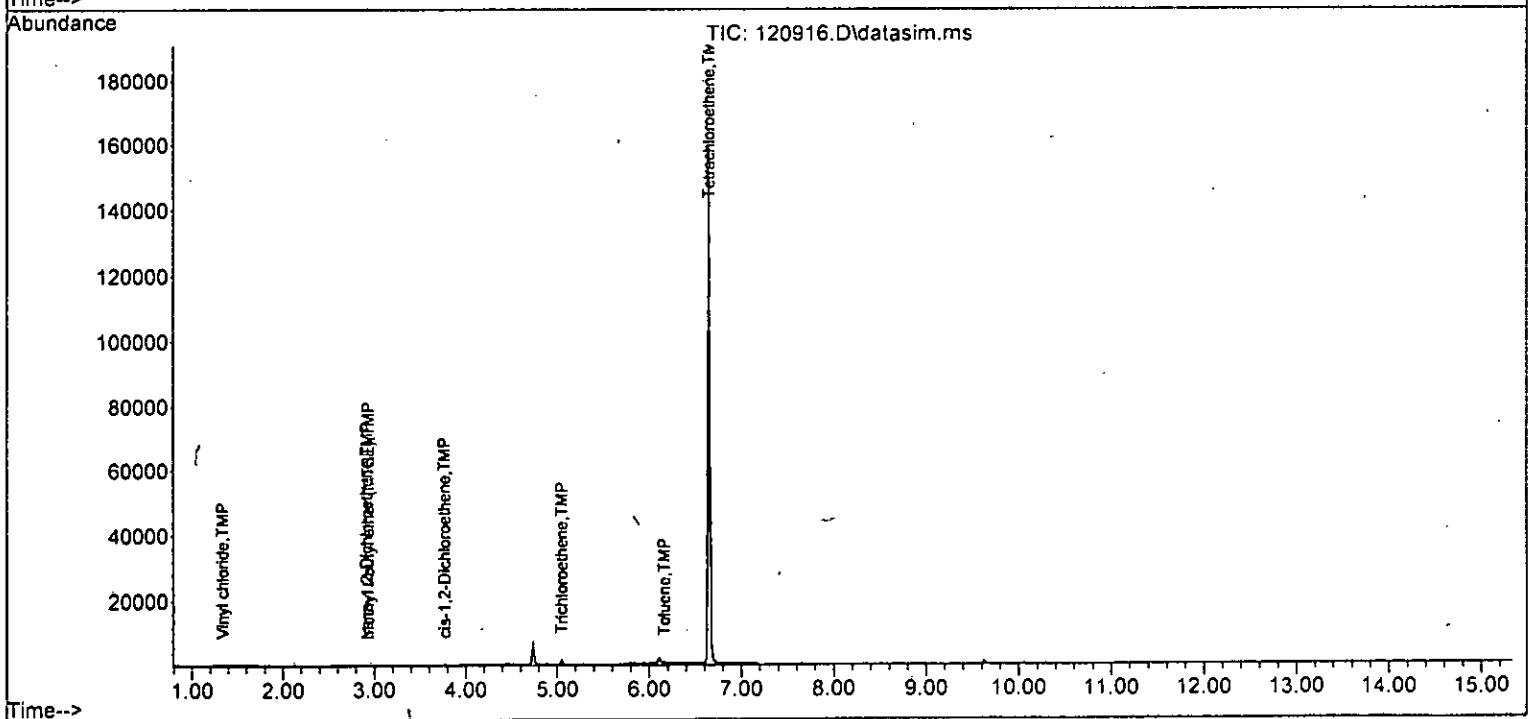
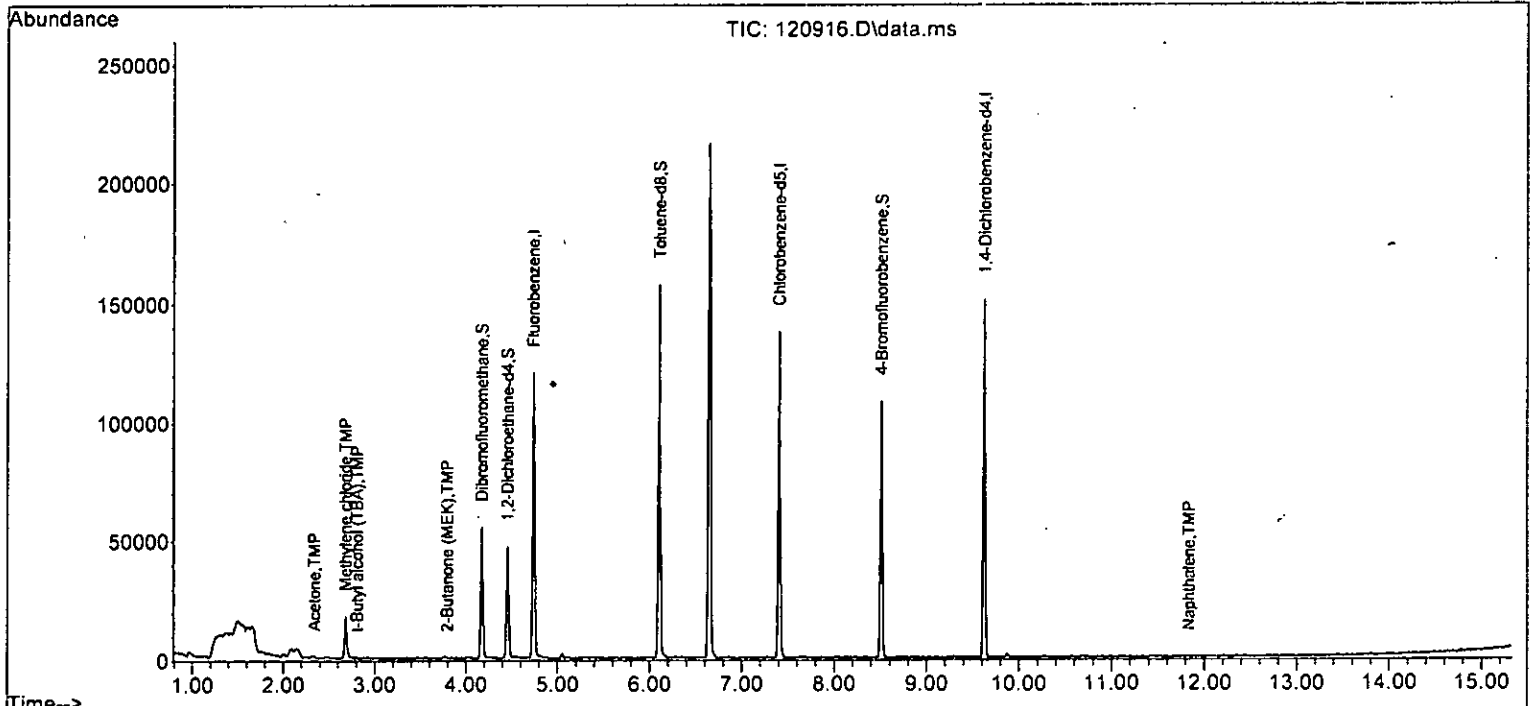
Quant Time: Dec 12 07:59:19 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

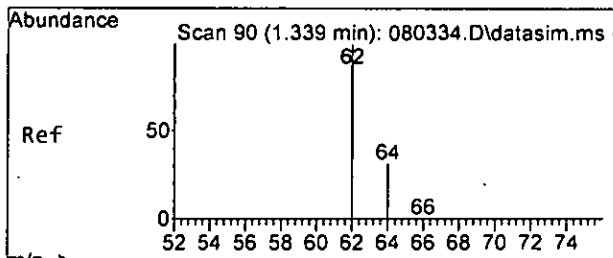
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.73	96	96292	10.000	ppb	0.00
39) Chlorobenzene-d5	7.40	117	68414	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.62	152	36754	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.17	113	27051	8.819	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	88.20%	
30) 1,2-Dichloroethane-d4	4.45	102	5548	9.650	ppb	0.00
Spiked Amount	10.000	Range 71 - 132	Recovery	=	96.50%	
35) Toluene-d8	6.11	98	87927	10.159	ppb	0.00
Spiked Amount	10.000	Range 68 - 139	Recovery	=	101.60%	
57) 4-Bromofluorobenzene	8.51	95	28829	12.944	ppb	0.00
Spiked Amount	10.000	Range 62 - 136	Recovery	=	129.40%	
Target Compounds						
						Qvalue
6] Vinyl chloride	1.34	62	80m	0.022	ppb	
11) Acetone	2.34	58	358	3.358	ppb	94
14) Methylene chloride	2.68	84	7779	2.682	ppb	92
15) t-Butyl alcohol (T8A)	2.81	59	96	0.447	ppb	55
16] Methyl t-butyl ether (...)	2.93	73	87	0.015	ppb	95
17] trans-1,2-Dichloroethene	2.91	96	112	0.042	ppb	88
21) 2,2-Dichloropropane	3.77	77	112	Below Cal	#	43
22] cis-1,2-Dichloroethene	3.77	96	221	0.077	ppb	95
24) 2-Butanone (MEK)	3.79	43	159	0.756	ppb	57
32] Trichloroethene	5.05	95	610	0.208	ppb	# 76
40] Toluene	6.16	92	222	0.040	ppb	90
45] Tetrachloroethene	6.65	164	54944	18.548	ppb	98
49] Ethylbenzene	7.54	91	142	Below Cal		95
51] m,p-Xylene	7.65	106	182	Below Cal		83
52] o-Xylene	8.02	106	72	Below Cal		86
75) Naphthalene	11.83	128	194	0.027	ppb	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120916.D  
 Acq On : 09 Dec 2022 02:44 pm  
 Operator : lm  
 Sample : 212113-05  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS13

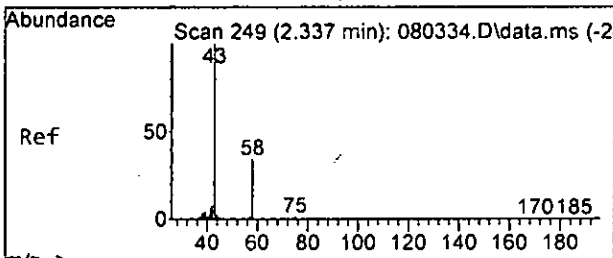
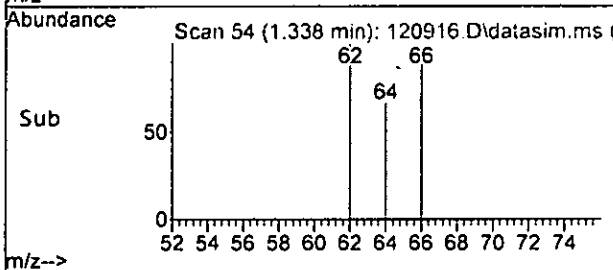
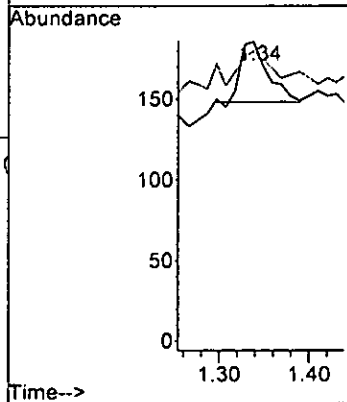
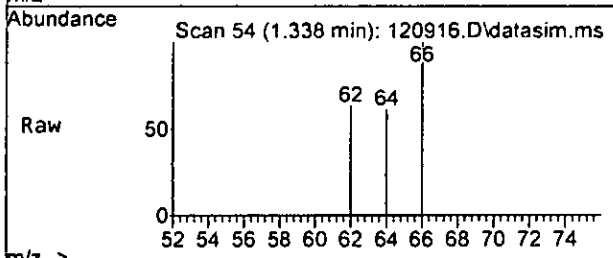
Quant Time: Dec 12 07:59:19 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M





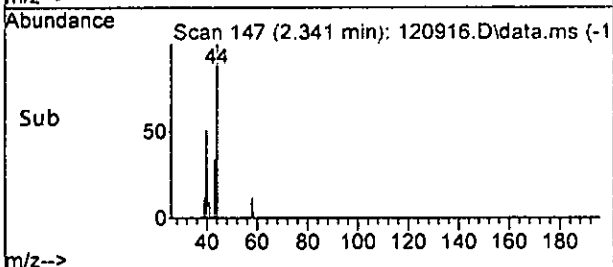
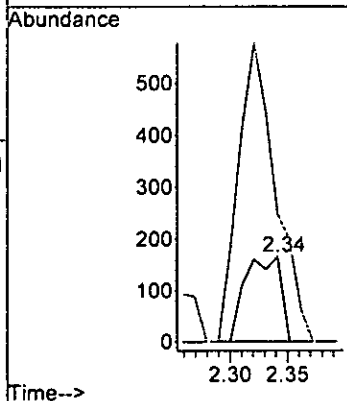
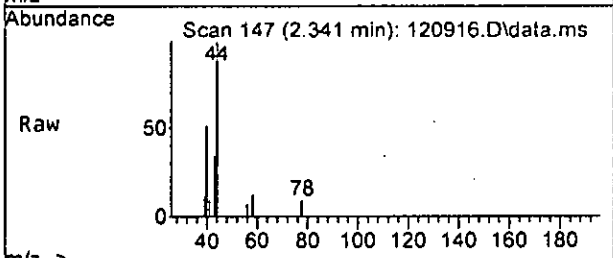
#6  
 Vinyl chloride  
 Concen: 0.022 ppb m  
 RT: 1.34 min Scan# 54  
 Delta R.T. 0.010 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

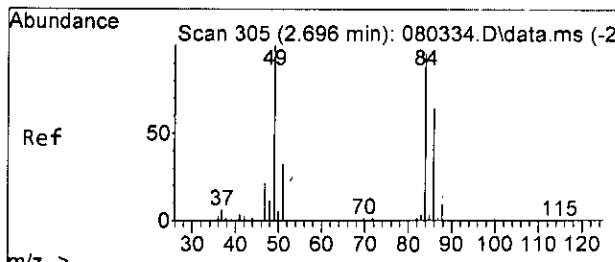
Tgt Ion: 62 Resp: 80  
 Ion Ratio Lower Upper  
 62 100  
 64 96.8 0.2 60.2#



#11  
 Acetone  
 Concen: 3.358 ppb  
 RT: 2.34 min Scan# 147  
 Delta R.T. 0.020 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

Tgt Ion: 58 Resp: 358  
 Ion Ratio Lower Upper  
 58 100  
 43 366.5 350.8 410.8

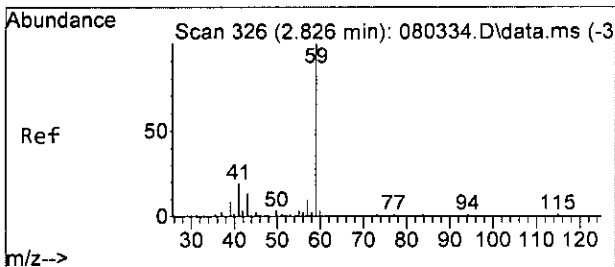
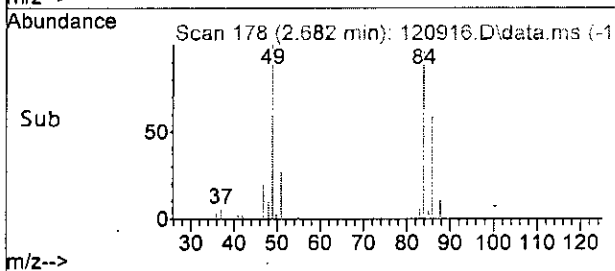
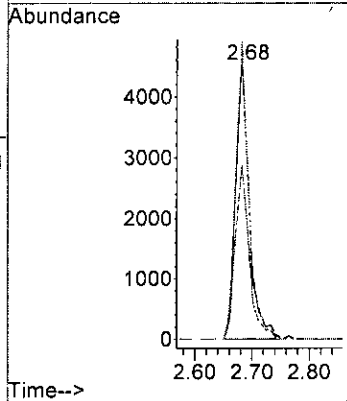
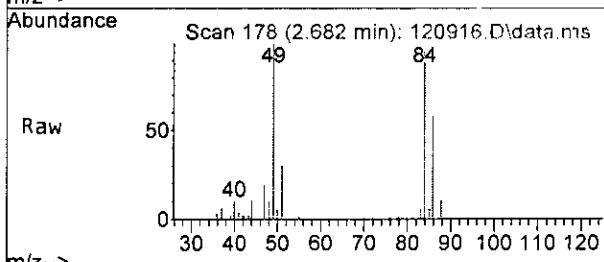




#14  
 Methylene chloride  
 Concen: 2.682 ppb  
 RT: 2.68 min Scan# 178  
 Delta R.T. -0.000 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

Tgt Ion: 84 Resp: 7779

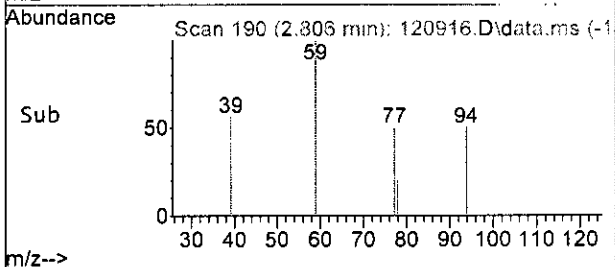
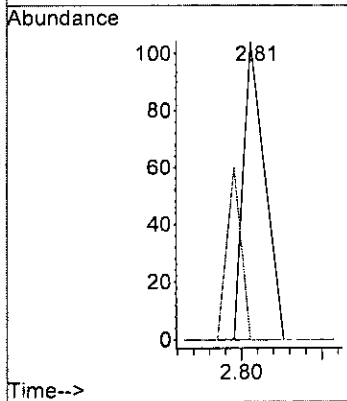
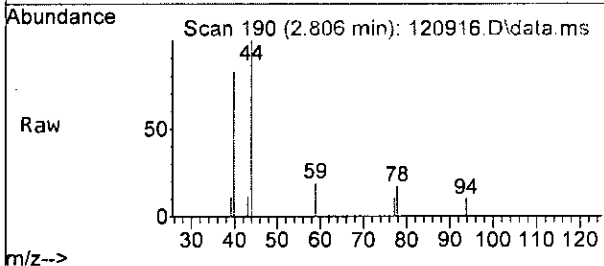
Ion	Ratio	Lower	Upper
84	100		
86	60.5	41.2	101.2
49	103.6	69.2	129.2

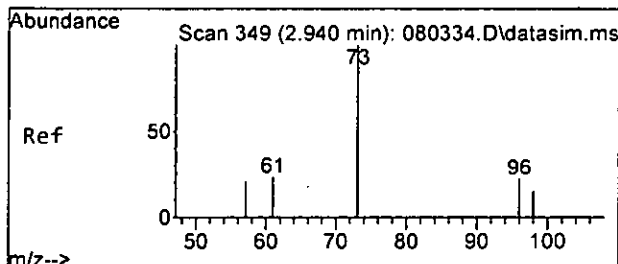


#15  
 t-Butyl alcohol (TBA)  
 Concen: 0.447 ppb  
 RT: 2.81 min Scan# 190  
 Delta R.T. -0.000 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

Tgt Ion: 59 Resp: 96

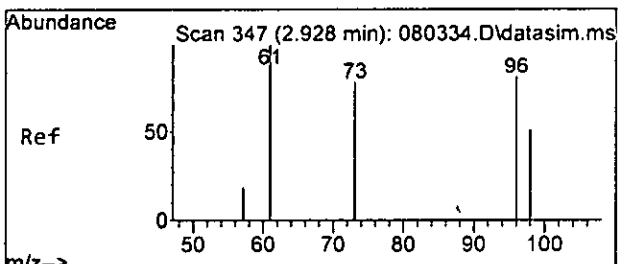
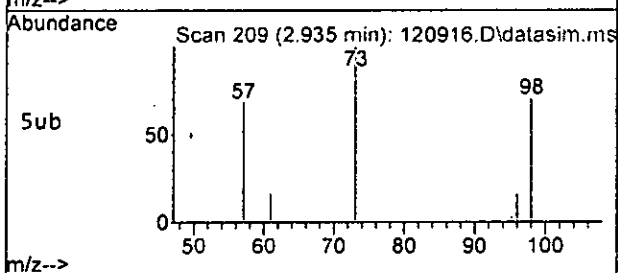
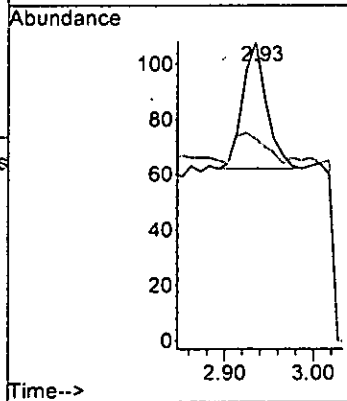
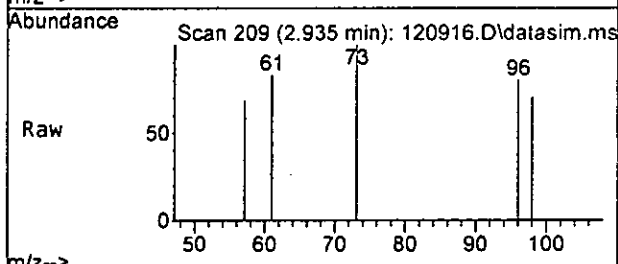
Ion	Ratio	Lower	Upper
59	100		
41	0.0	0.0	50.8





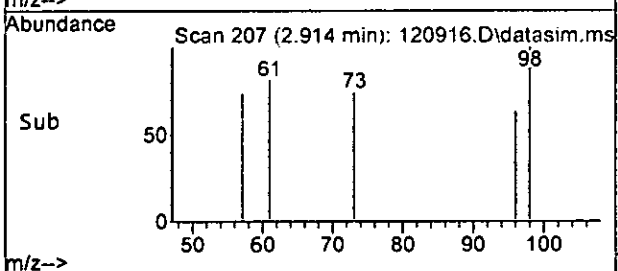
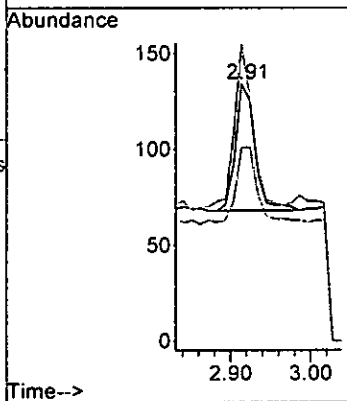
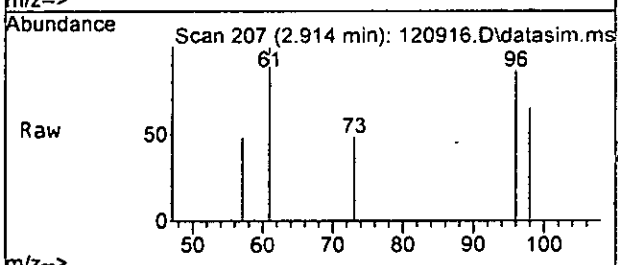
#16  
 Methyl t-butyl ether (MTBE)  
 Concen: 0.015 ppb  
 RT: 2.93 min Scan# 209  
 Delta R.T. 0.011 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

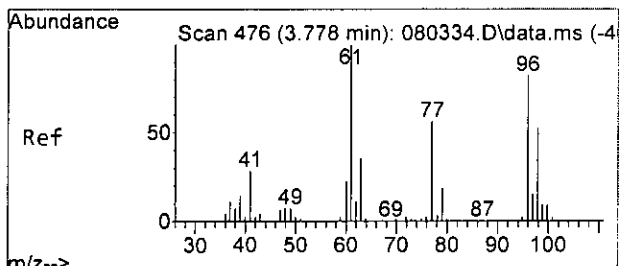
Tgt Ion: 73 Resp: 87  
 Ion Ratio Lower Upper  
 73 100  
 57 17.4 0.0 49.5



#17  
 trans-1,2-Dichloroethene  
 Concen: 0.042 ppb  
 RT: 2.91 min Scan# 207  
 Delta R.T. -0.000 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

Tgt Ion: 96 Resp: 112  
 Ion Ratio Lower Upper  
 96 100  
 61 124.2 77.0 137.0  
 98 59.1 32.7 92.7

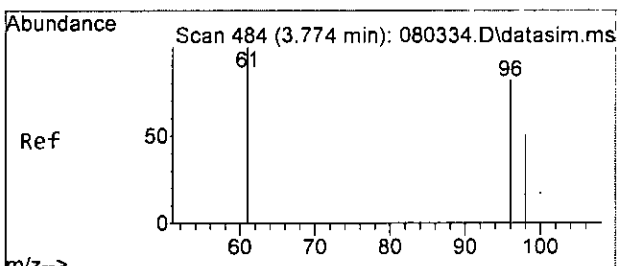
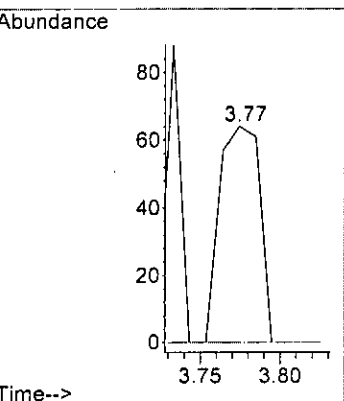
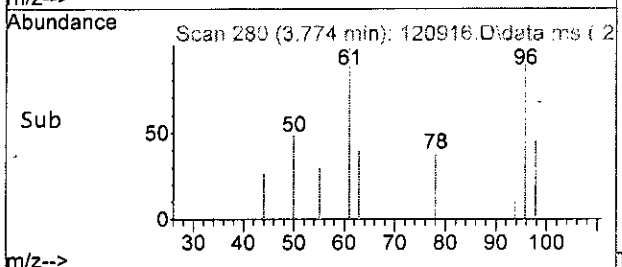
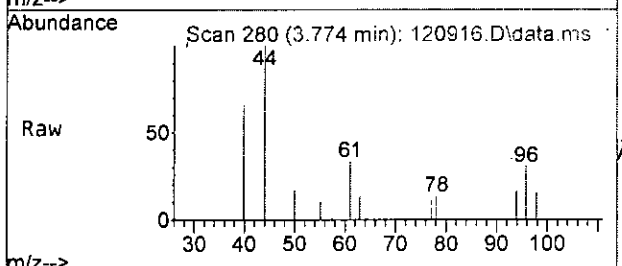




#21  
 2,2-Dichloropropane  
 Concen: Below Cal  
 RT: 3.77 min Scan# 280  
 Delta R.T. 0.010 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

Tgt Ion: 77 Resp: 112

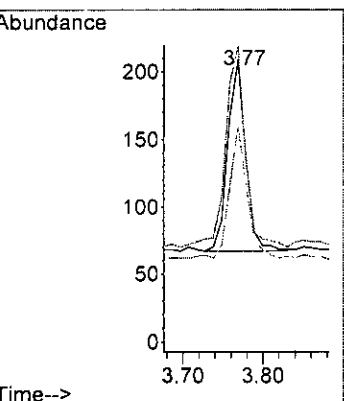
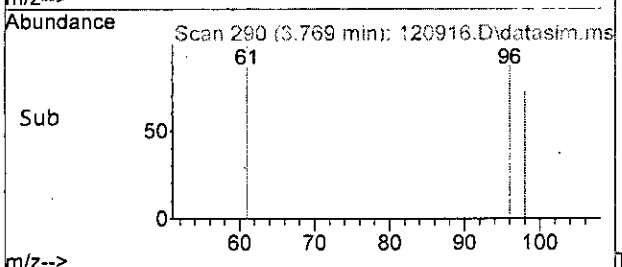
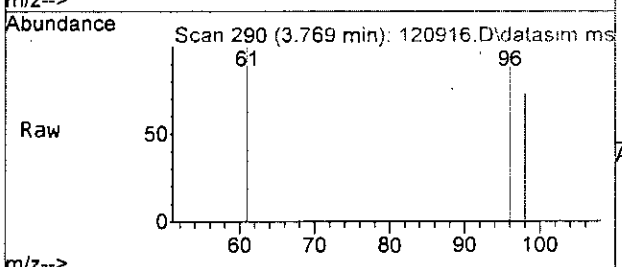
Ion	Ratio	Lower	Upper
77	100		
97	0.0	2.0	62.0#

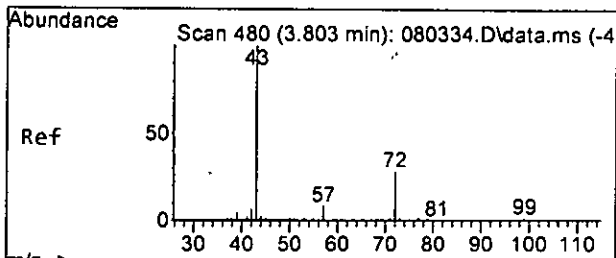


#22  
 cis-1,2-Dichloroethene  
 Concen: 0.077 ppb  
 RT: 3.77 min Scan# 290  
 Delta R.T. -0.000 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

Tgt Ion: 96 Resp: 221

Ion	Ratio	Lower	Upper
96	100		
61	104.9	67.0	127.0
98	68.3	38.1	98.1

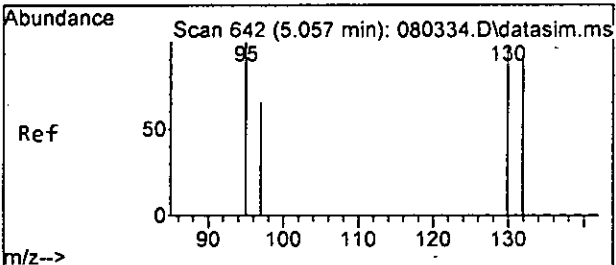
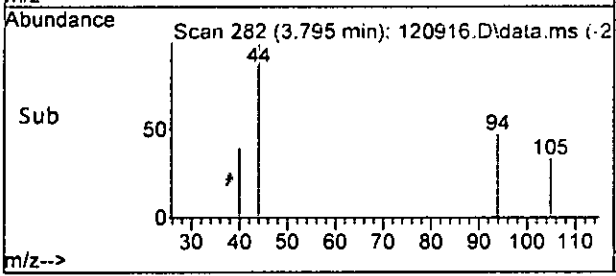
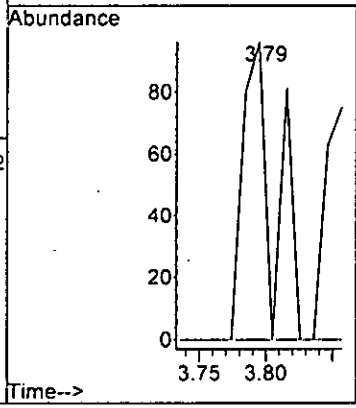
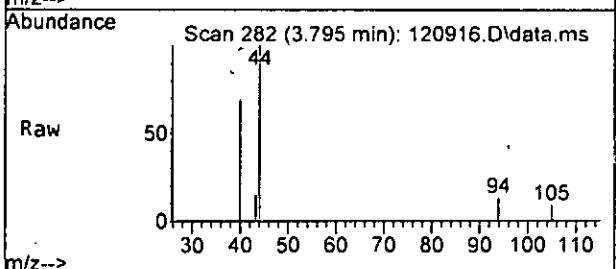




#24  
 2-Butanone (MEK)  
 Concen: 0.756 ppb  
 RT: 3.79 min Scan# 282  
 Delta R.T. 0.010 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

Tgt Ion: 43 Resp: 159

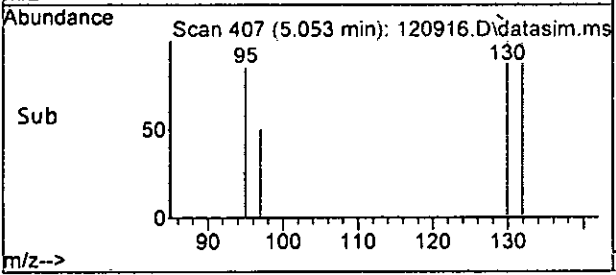
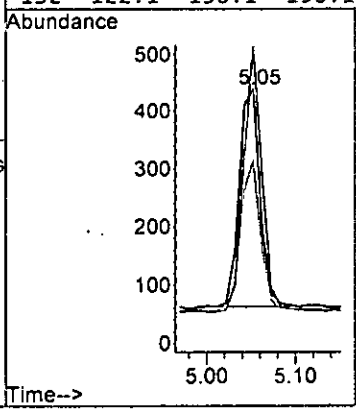
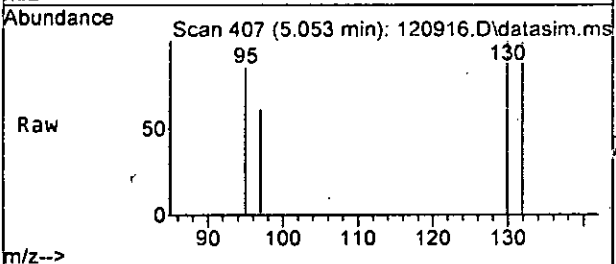
Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	54.9
57	0.0	0.0	28.8

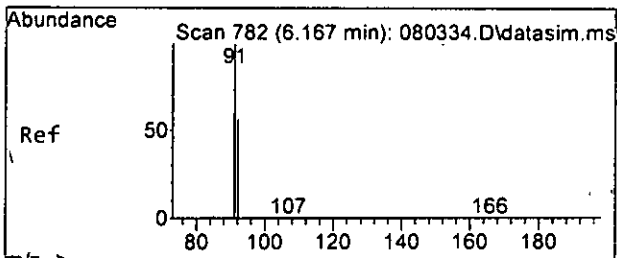


#32  
 Trichloroethene  
 Concen: 0.208 ppb  
 RT: 5.05 min Scan# 407  
 Delta R.T. -0.000 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

Tgt Ion: 95 Resp: 610

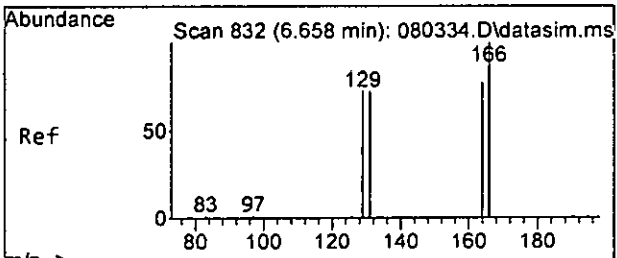
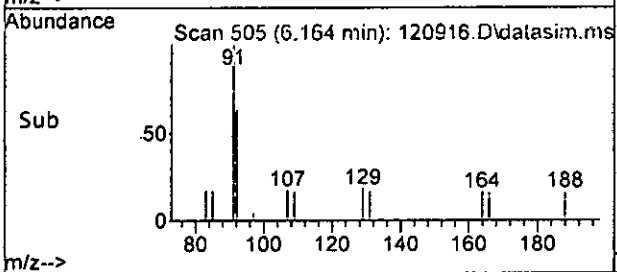
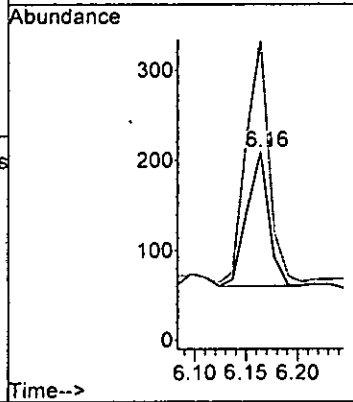
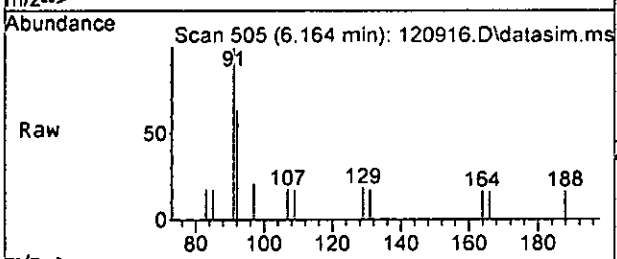
Ion	Ratio	Lower	Upper
95	100		
97	68.4	39.9	99.9
130	122.6	131.0	191.0#
132	122.1	130.1	190.1#





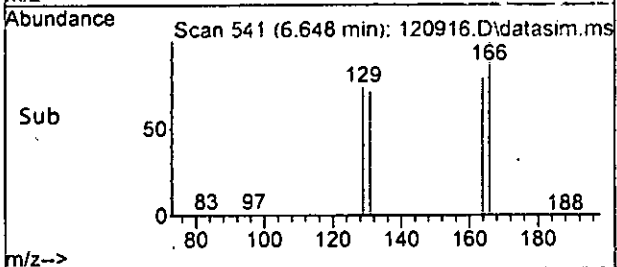
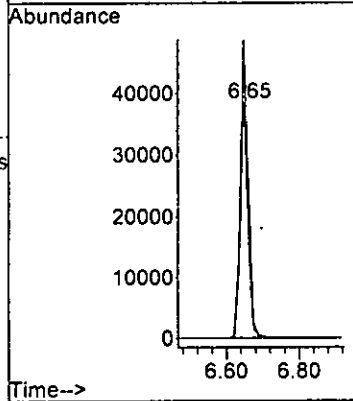
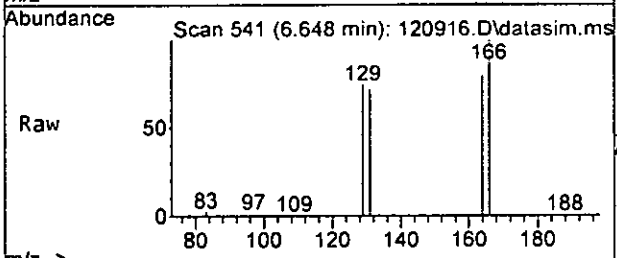
#40  
 Toluene  
 Concen: 0.040 ppb  
 RT: 6.16 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

Tgt Ion: 92 Resp: 222  
 Ion Ratio Lower Upper  
 92 100  
 91 181.2 137.5 197.5

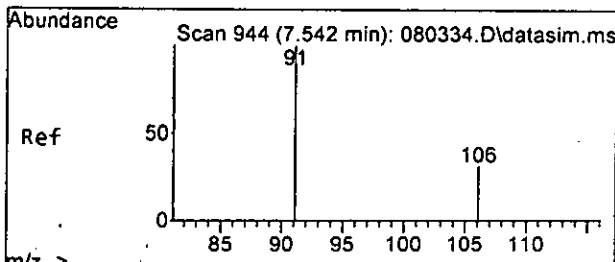


#45  
 Tetrachloroethene  
 Concen: 18.548 ppb  
 RT: 6.65 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

Tgt Ion: 164 Resp: 54944  
 Ion Ratio Lower Upper  
 164 100  
 129 93.4 60.6 120.6  
 131 90.3 58.0 118.0  
 166 126.6 95.8 155.8

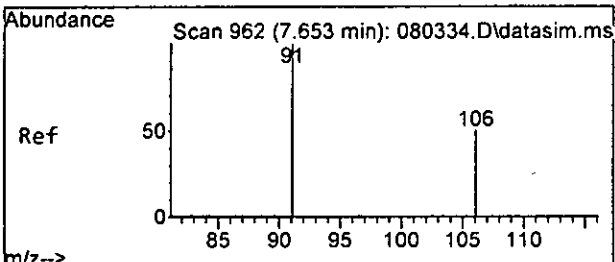
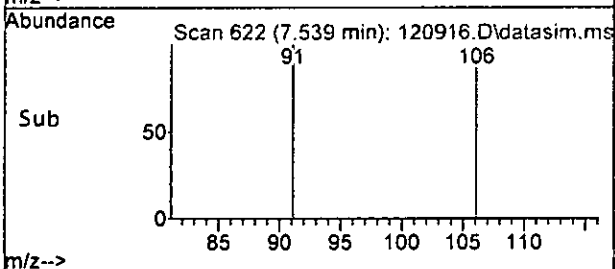
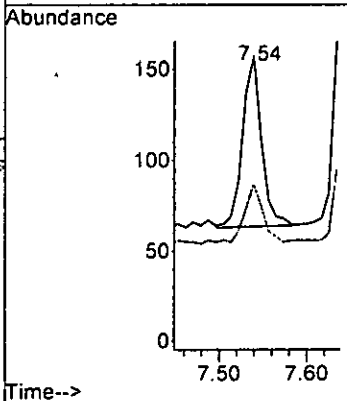
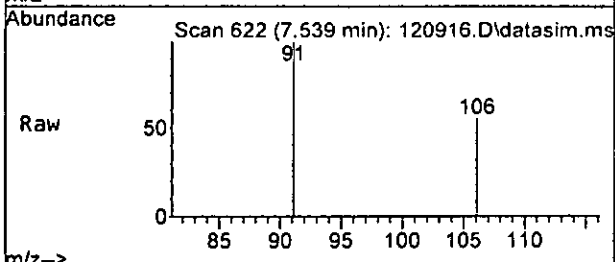






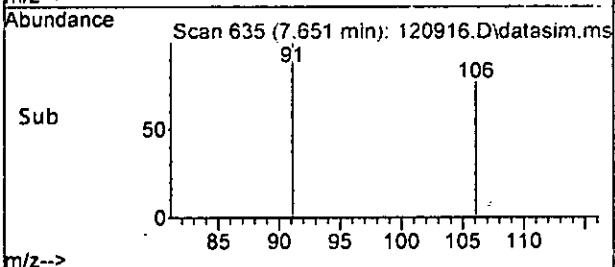
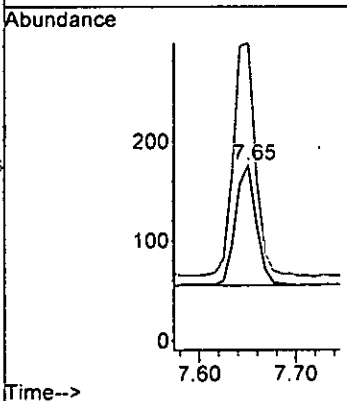
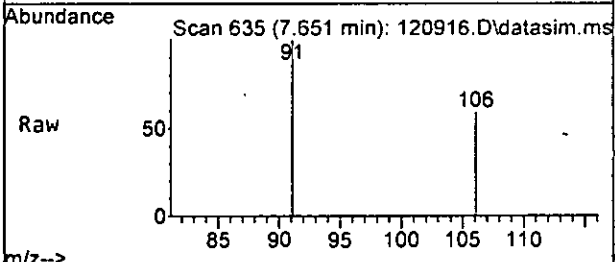
#49  
 Ethylbenzene  
 Concen: Below Cal  
 RT: 7.54 min Scan# 622  
 Delta R.T. -0.000 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

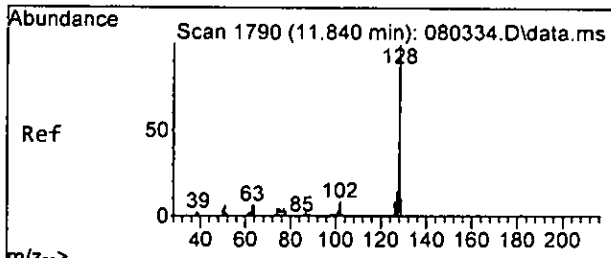
Tgt Ion: 91 Resp: 142  
 Ion Ratio Lower Upper  
 91 100  
 106 34.4 7.1 67.1



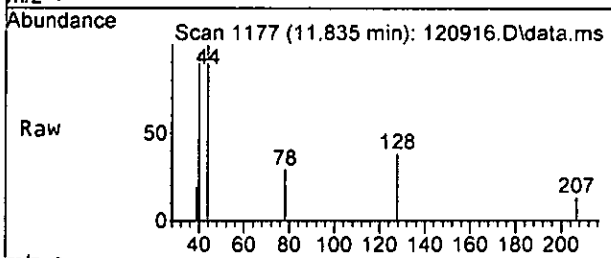
#51  
 m,p-Xylene  
 Concen: Below Cal  
 RT: 7.65 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm

Tgt Ion: 106 Resp: 182  
 Ion Ratio Lower Upper  
 106 100  
 91 191.0 138.1 198.1



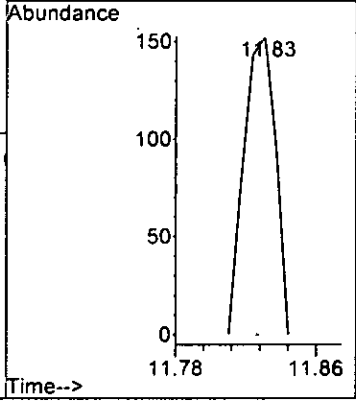
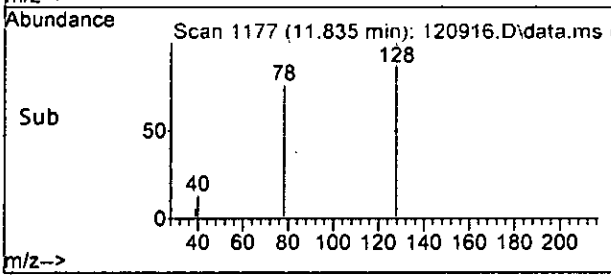


#75  
 Naphthalene  
 Concen: 0.027 ppb  
 RT: 11.83 min Scan# 1177  
 Delta R.T. -0.000 min  
 Lab File: 120916.D  
 Acq: 09 Dec 2022 02:44 pm



Tgt Ion: 128 Resp: 194

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	41.5
127	0.0	0.0	44.0



Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120916.D  
 Acq On : 09 Dec 2022 02:44 pm  
 Operator : lm  
 Sample : 212113-05  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:19 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.73	96	96292	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.40	117	68414	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.62	152	36754	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.17	113	27051	8.819	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	88.20%		
30) 1,2-Dichloroethane-d4	4.45	102	5548	9.650	ppb	0.00	
Spiked Amount	10.000	Range 71 - 132	Recovery	=	96.50%		
35) Toluene-d8	6.11	98	87927	10.159	ppb	0.00	
Spiked Amount	10.000	Range 68 - 139	Recovery	=	101.60%		
57) 4-Bromofluorobenzene	8.51	95	28829	12.944	ppb	0.00	
Spiked Amount	10.000	Range 62 - 136	Recovery	=	129.40%		
<b>Target Compounds</b>							
2) Ethanol	2.30	45	40	No Calib			
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.25	50	2059	N.D.			
6) Vinyl chloride	1.34	62	80m	0.022 ppb			
7) Bromomethane	0.00		0	N.D. d			
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	2.30	45	40	No Calib			
11) Acetone	2.34	58	358	3.358 ppb		94	
12) 1,1-Dichloroethene	0.00		0	N.D.			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.68	84	7779	2.682 ppb		92	
15) t-Butyl alcohol (TBA)	2.81	59	96	0.447 ppb		55	
16] Methyl t-butyl ether (...)	2.93	73	87	0.015 ppb		95	
17] trans-1,2-Dichloroethene	2.91	96	112	0.042 ppb		88	
18) Diisopropyl ether (DIPE)	3.40	45	32	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	3.77	77	112	Below Cal #		43	
22] cis-1,2-Dichloroethene	3.77	96	221	0.077 ppb		95	
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.79	43	159	0.756 ppb		57	
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26) 1,2-Dichloroethane (EDC)	4.52	62	60	N.D.			
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31) Benzene	4.50	78	109	N.D.			
32] Trichloroethene	5.05	95	610	0.208 ppb #		76	
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120916.D  
 Acq On : 09 Dec 2022 02:44 pm  
 Operator : lm  
 Sample : 212113-05  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS13

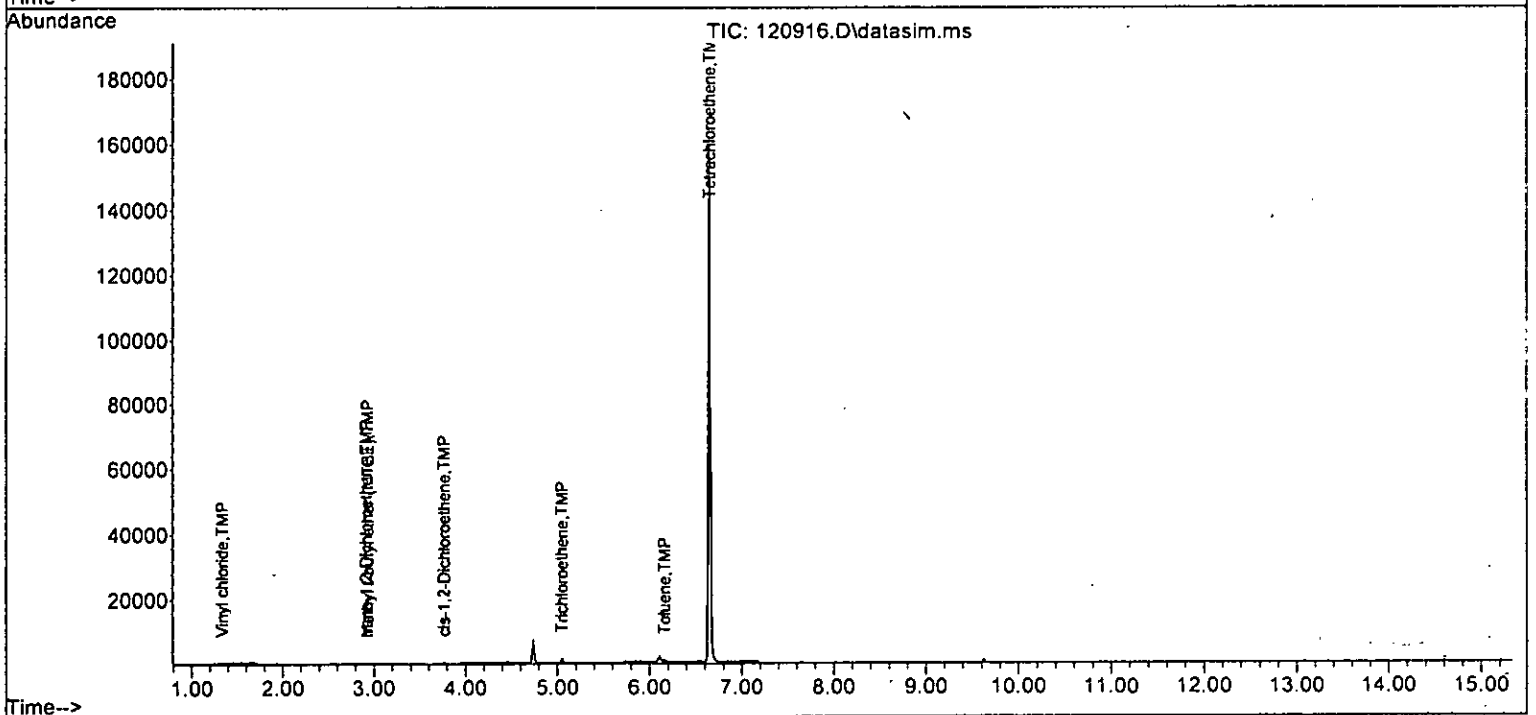
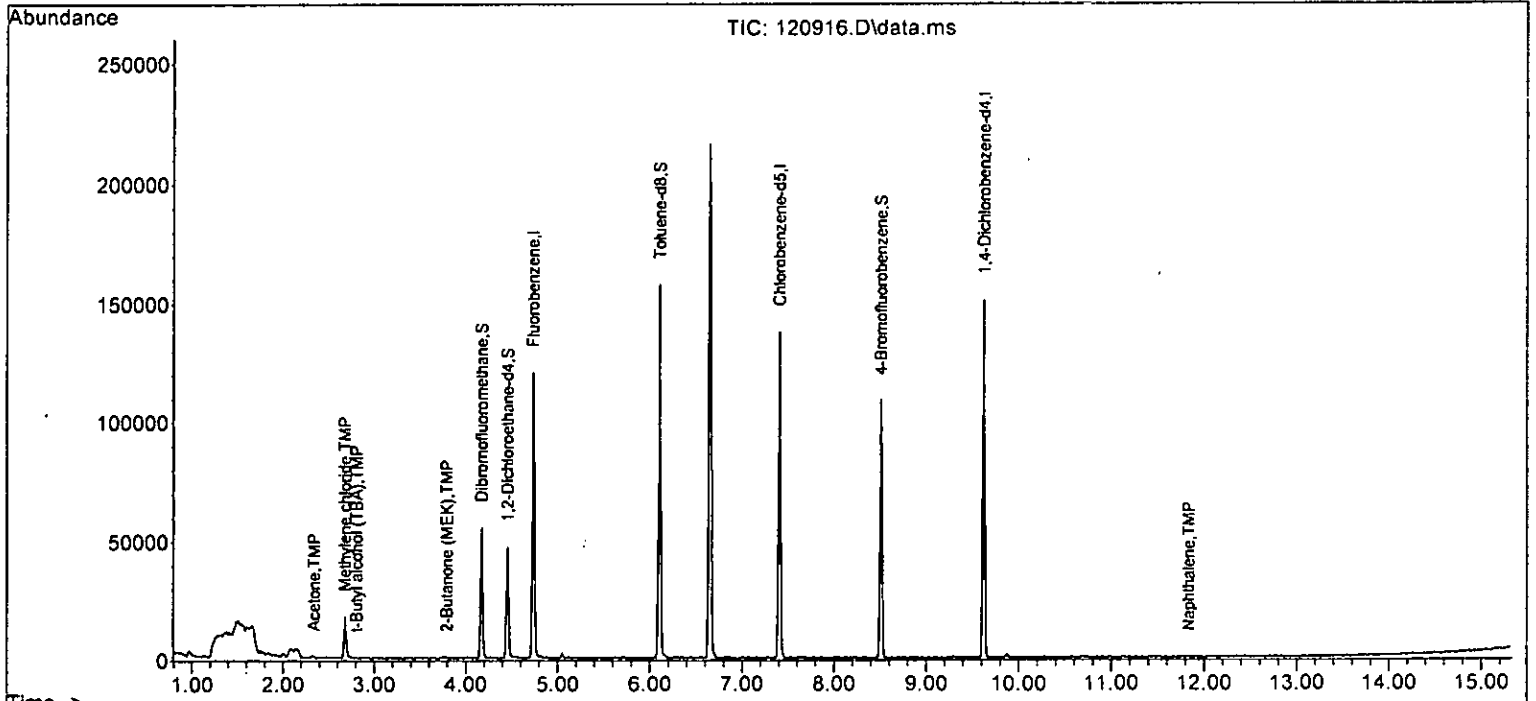
Quant Time: Dec 12 07:59:19 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.16	92	222	0.040	ppb	90
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	6.53	83	44		N.D.	
43) 2-Hexanone	0.00		0		N.D. d	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.65	164	54944	18.548	ppb	98
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.54	91	142	Below Cal		95
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.65	106	182	Below Cal		83
52] o-Xylene	8.02	106	72	Below Cal		86
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.77	91	35		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.94	105	44		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	8.77	91	35		N.D.	
64) 4-Chlorotoluene	8.77	91	35		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.30	105	270		N.D.	
67) sec-Butylbenzene	9.46	105	22		N.D.	
68) p-Isopropyltoluene	9.61	119	136		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	10.87	75	31		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.83	128	194	0.027	ppb	68
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS13\12-09-22\  
 Data File : 120916.D  
 Acq On : 09 Dec 2022 02:44 pm  
 Operator : lm  
 Sample : 212113-05  
 Misc : water  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS13

Quant Time: Dec 12 07:59:19 2022  
 Quant Method : Y:\Methods\Inst13\VB113022ms13.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Thu Dec 01 12:09:50 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080322.M



Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121418.D  
 Acq On : 14 Dec 2022 11:21 am  
 Operator : LM  
 Sample : 212113-04 rr  
 Misc : water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

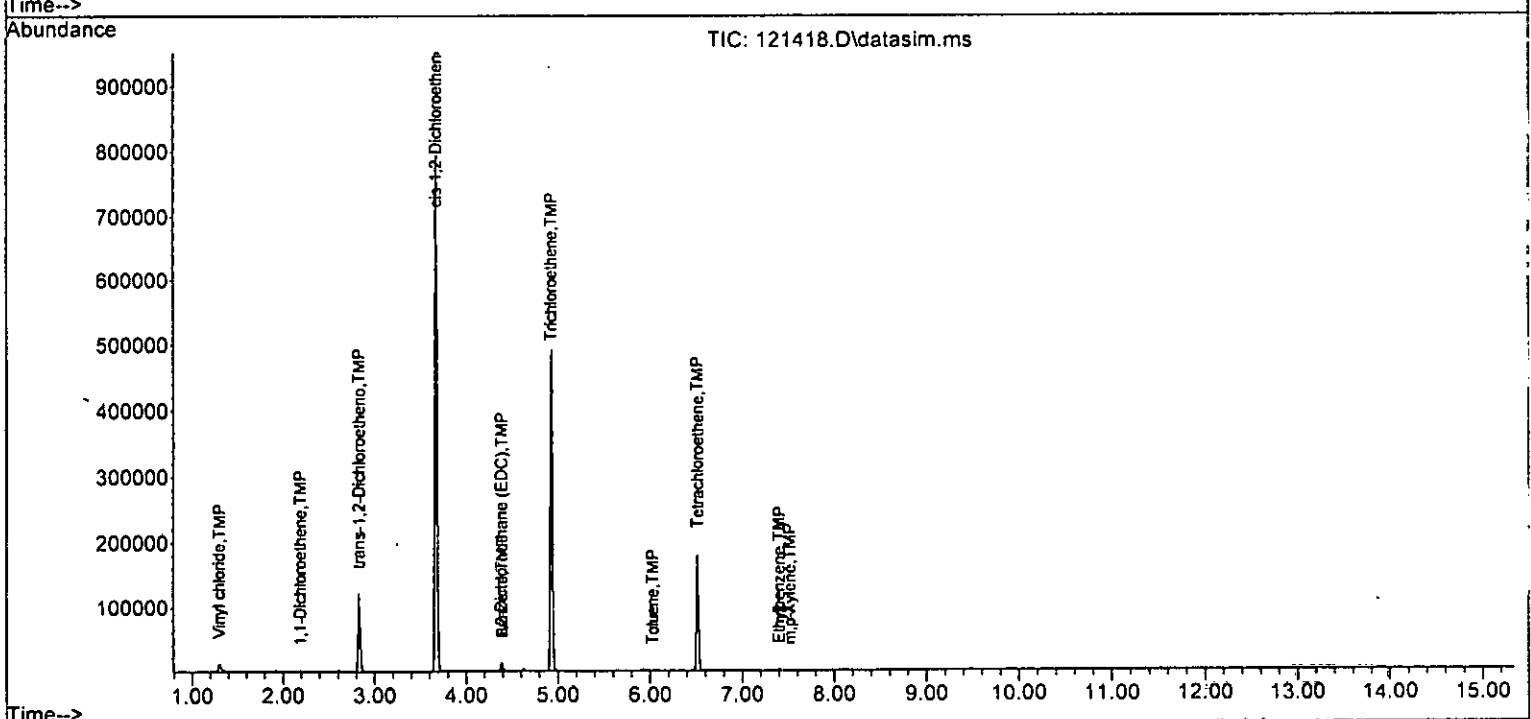
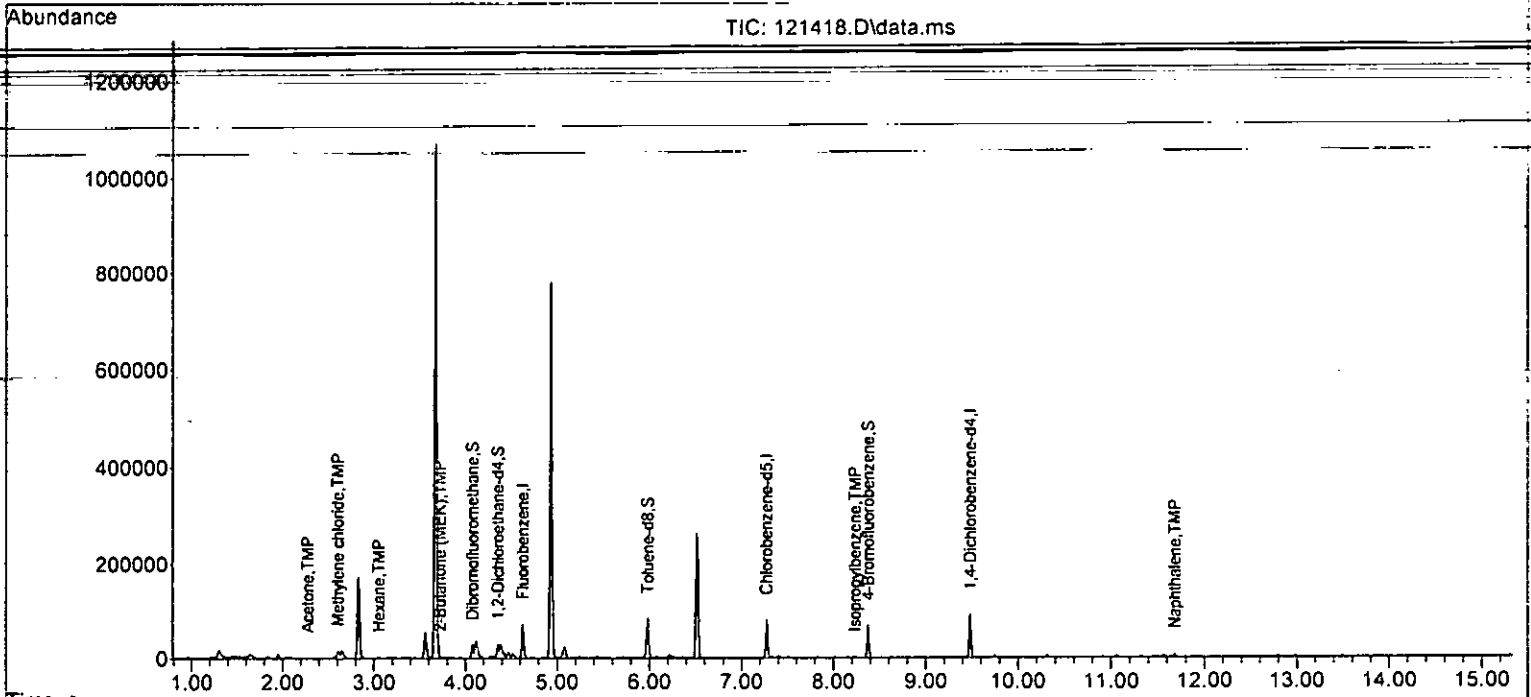
Quant Time: Dec 14 12:04:45 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

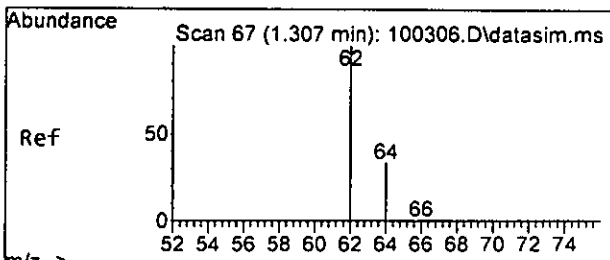
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	47239	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	37214	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	21216	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	12448	9.987	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery	=	99.90%	
30) 1,2-Dichloroethane-d4	4.36	102	2785	9.772	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery	=	97.70%	
35) Toluene-d8	5.98	98	44902	9.900	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery	=	99.00%	
57) 4-Bromofluorobenzene	8.38	95	17757	9.913	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery	=	99.10%	
<b>Target Compounds</b>						
6] Vinyl chloride	1.30	62	22110	6.396	ppb	96
11] Acetone	2.28	58	378	2.149	ppb #	14
12] 1,1-Dichloroethene	2.19	96	394	0.347	ppb #	79
13] Hexane	3.05	57	951	0.464	ppb	86
14] Methylene chloride	2.61	84	2634	2.073	ppb	92
17] trans-1,2-Dichloroethene	2.83	96	54181	42.129	ppb	97
22] cis-1,2-Dichloroethene	3.67	96	378990	280.144	ppb	91
24] 2-Butanone (MEK)	3.72	43	163	0.189	ppb	63
26] 1,2-Dichloroethane (EDC)	4.38	62	304	0.156	ppb	77
31] Benzene	4.39	78	15550	3.295	ppb	98
32] Trichloroethene	4.93	95	203602	136.575	ppb	98
40] Toluene	6.03	92	245	0.077	ppb	87
45] Tetrachloroethene	6.51	164	61223	48.078	ppb	99
49] Ethylbenzene	7.40	91	2748	0.458	ppb	99
51] m,p-Xylene	7.52	106	334	0.148	ppb	97
54] Isopropylbenzene	8.23	105	758	0.130	ppb	98
75] Naphthalene	11.68	128	4230	0.768	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121418.D  
 Acq On : 14 Dec 2022 11:21 am  
 Operator : LM  
 Sample : 212113-04 rr  
 Misc : water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

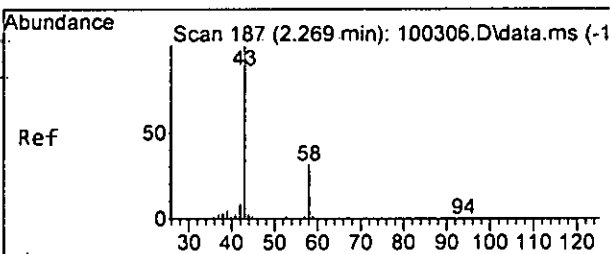
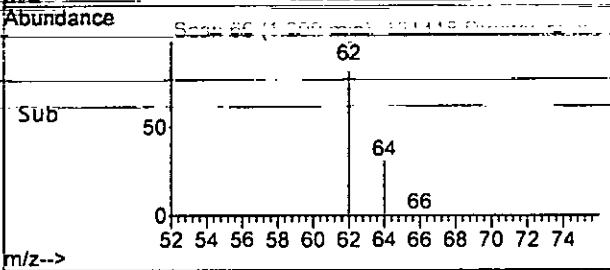
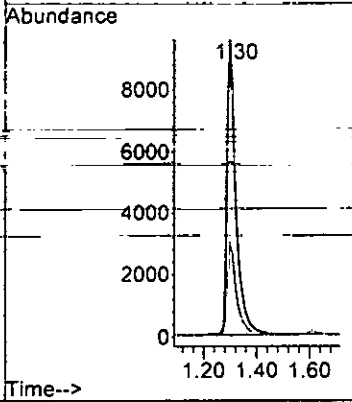
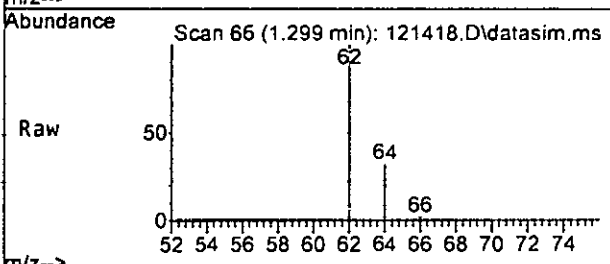
Quant Time: Dec 14 12:04:45 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





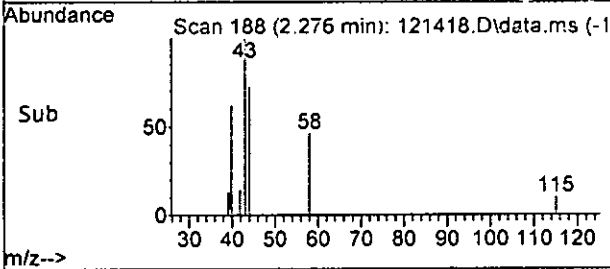
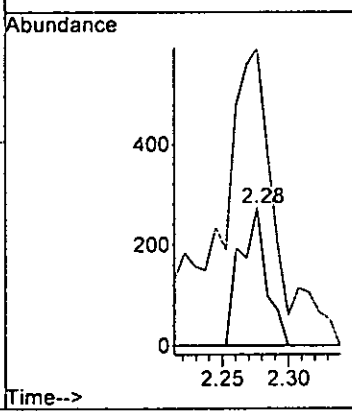
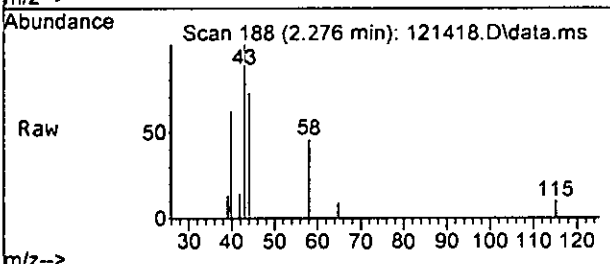
#6  
 Vinyl chloride  
 Concen: 6.396 ppb  
 RT: 1.30 min Scan# 66  
 Delta R.T. 0.007 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am

Tgt Ion: 62 Resp: 22110  
 Ion Ratio Lower Upper  
 62 100  
 64 30.7 0.0 58.8

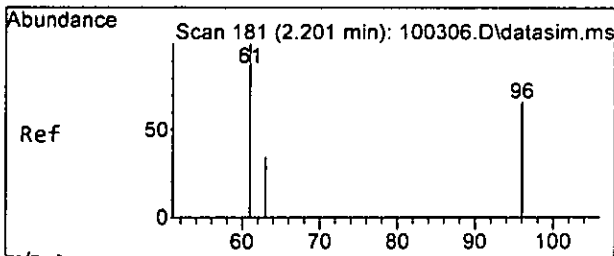


#11  
 Acetone  
 Concen: 2.149 ppb  
 RT: 2.28 min Scan# 188  
 Delta R.T. 0.015 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am

Tgt Ion: 58 Resp: 378  
 Ion Ratio Lower Upper  
 58 100  
 43 520.1 308.5 368.5#



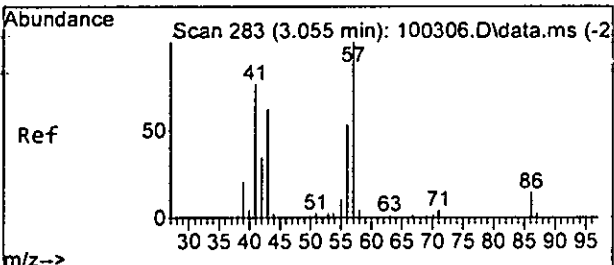
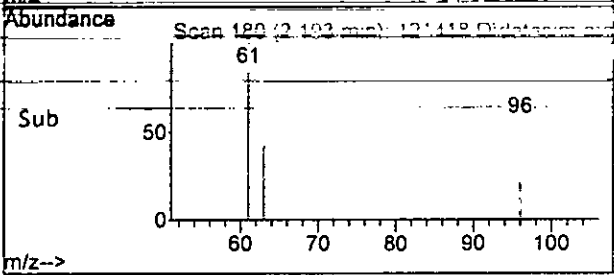
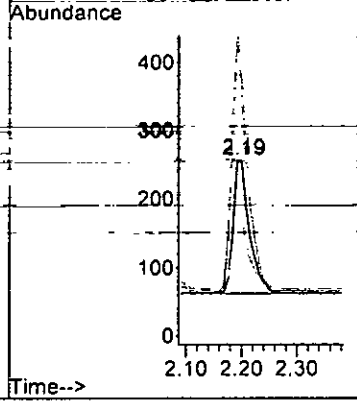
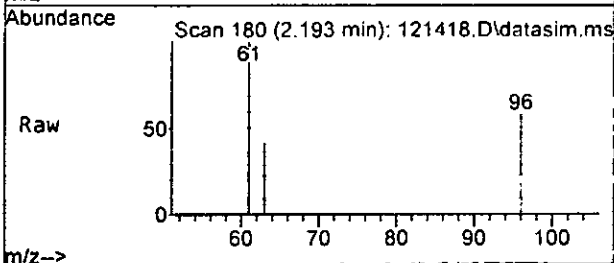




#12  
 1,1-Dichloroethene  
 Concen: 0.347 ppb  
 RT: 2.19 min Scan# 180  
 Delta R.T. 0.008 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am

Tgt Ion: 96 Resp: 394

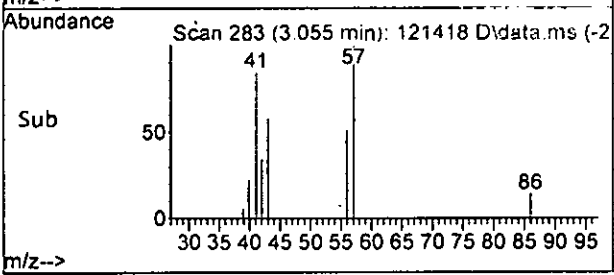
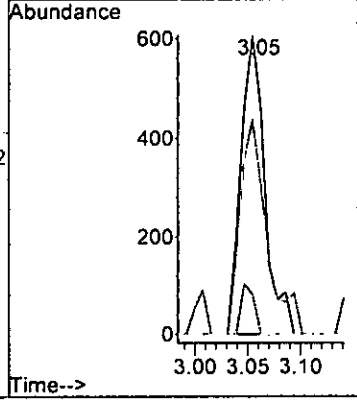
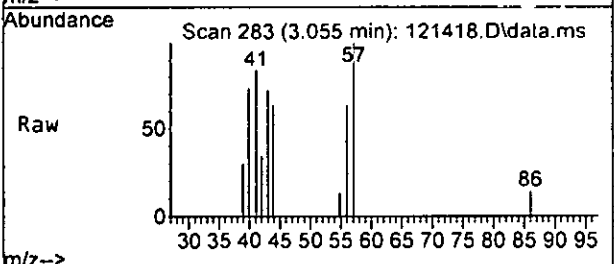
Ion	Ratio	Lower	Upper
96	100		
61	192.8	130.0	190.0#
63	60.0	23.7	83.7

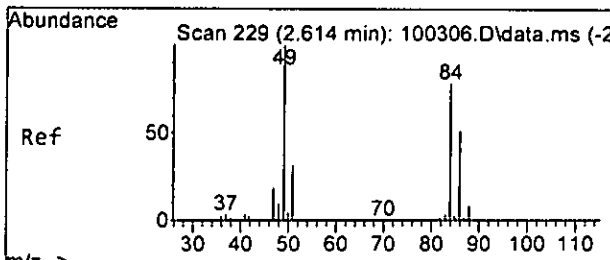


#13  
 Hexane  
 Concen: 0.464 ppb  
 RT: 3.05 min Scan# 283  
 Delta R.T. 0.008 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am

Tgt Ion: 57 Resp: 951

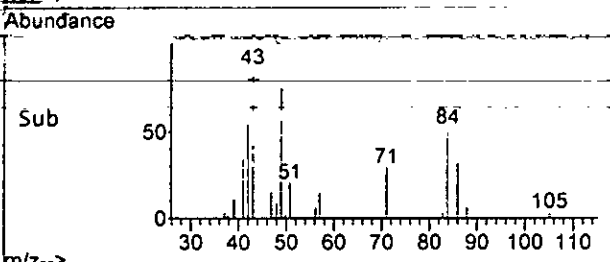
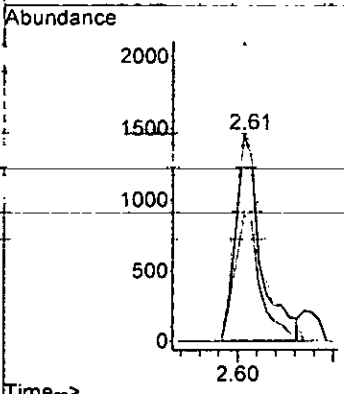
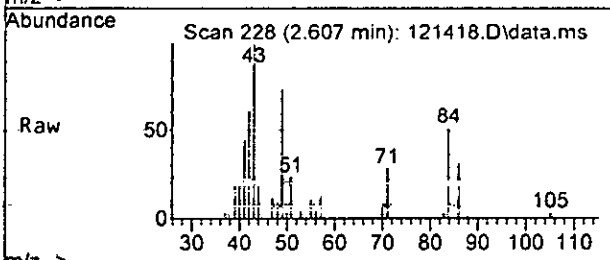
Ion	Ratio	Lower	Upper
57	100		
43	72.3	30.4	90.4
86	13.7	0.0	41.4





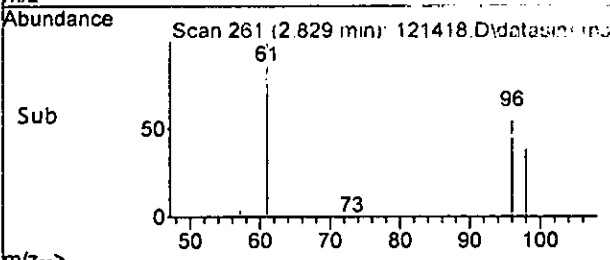
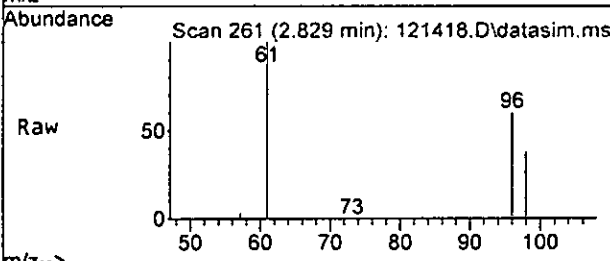
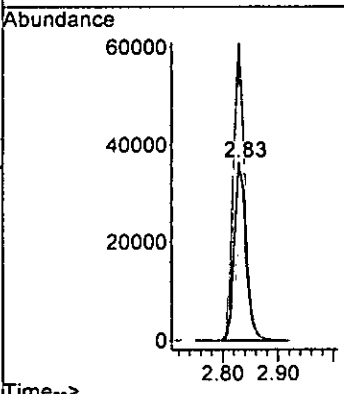
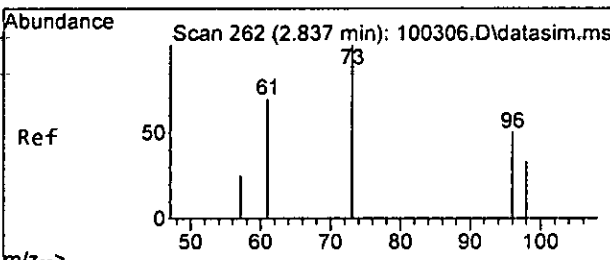
#14  
Methylene chloride  
Concen: 2.073 ppb  
RT: 2.61 min Scan# 228  
Delta R.T. 0.008 min  
Lab File: 121418.D  
Acq: 14 Dec 2022 11:21 am

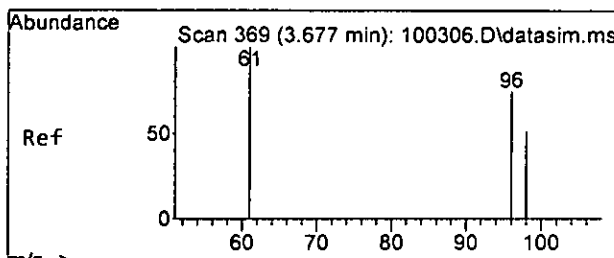
Tgt Ion: 84 Resp: 2634  
Ion Ratio Lower Upper  
84 100  
86 61.5 30.4 90.4  
49 143.9 127.9 187.9



#17  
trans-1,2-Dichloroethene  
Concen: 42.129 ppb  
RT: 2.83 min Scan# 261  
Delta R.T. 0.007 min  
Lab File: 121418.D  
Acq: 14 Dec 2022 11:21 am

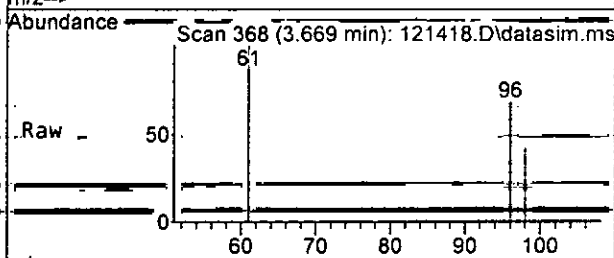
Tgt Ion: 96 Resp: 54181  
Ion Ratio Lower Upper  
96 100  
61 166.3 141.8 201.8  
98 62.5 31.0 91.0





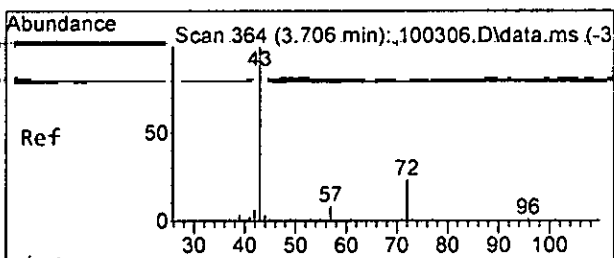
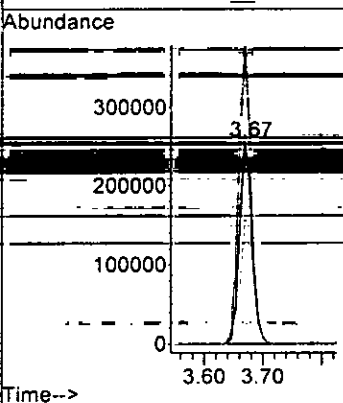
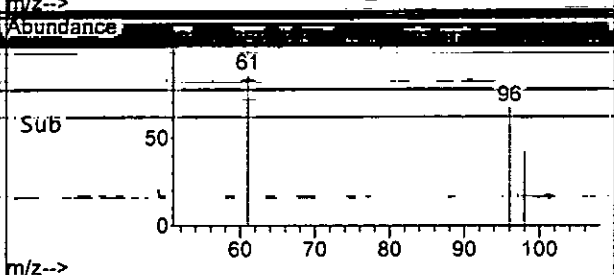
#22  
 cis-1,2-Dichloroethene  
 Concen: 280.144 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. -0.000 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am

Tgt Ion: 96 Resp: 378990



Ion Ratio Lower Upper

96	100		
61	147.2	132.4	192.4
98	61.8	29.7	89.7

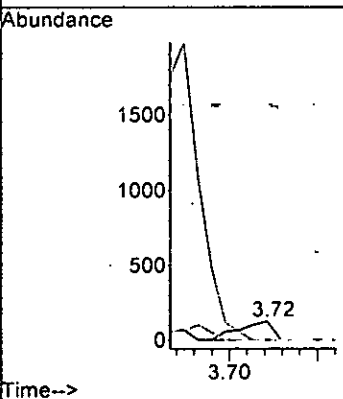
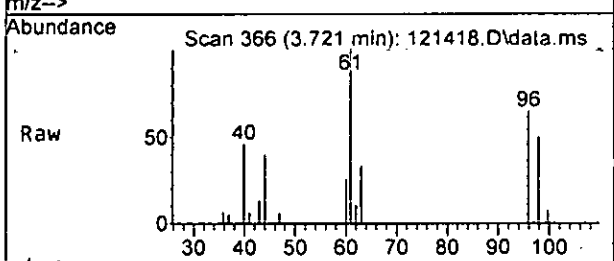


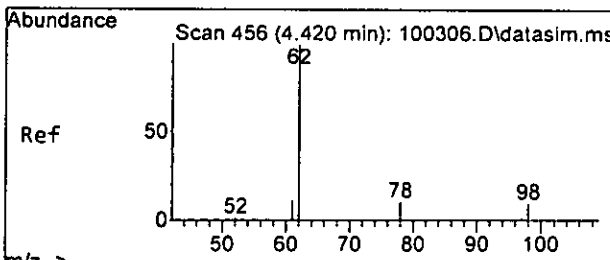
#24  
 2-Butanone (MEK)  
 Concen: 0.189 ppb  
 RT: 3.72 min Scan# 366  
 Delta R.T. 0.023 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am

Tgt Ion: 43 Resp: 163

Ion Ratio Lower Upper

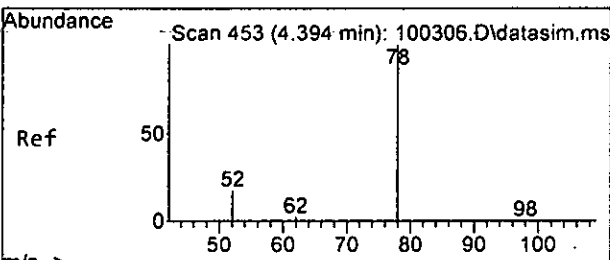
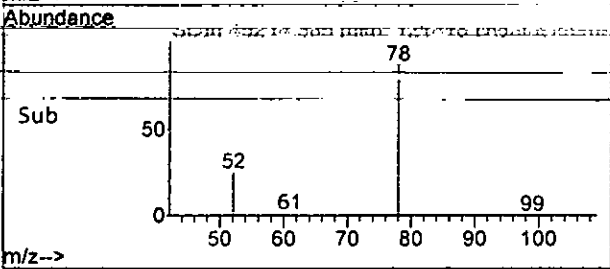
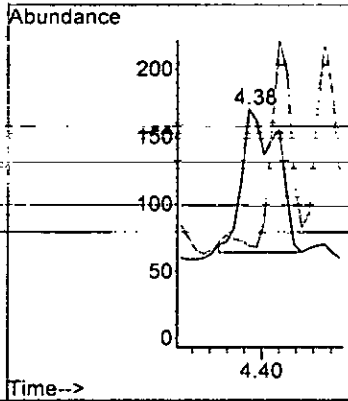
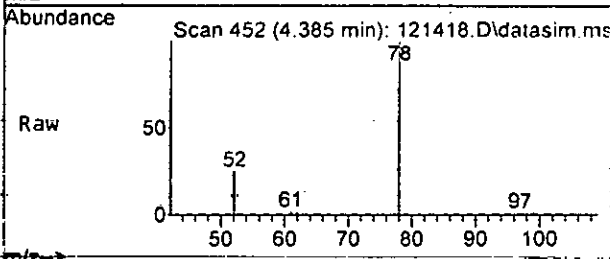
43	100		
72	0.0	0.0	49.5
57	0.0	0.0	27.5





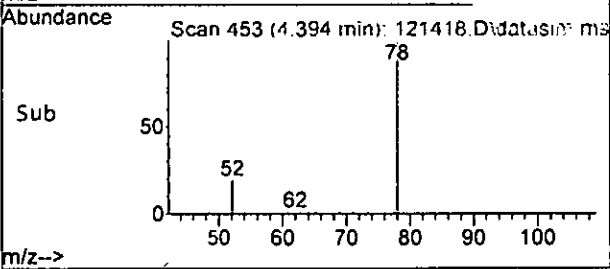
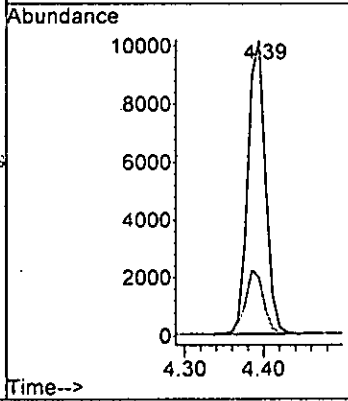
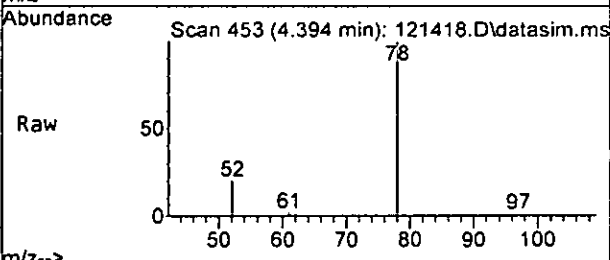
#26  
 1,2-Dichloroethane (EDC)  
 Concen: 0.156 ppb  
 RT: 4.38 min Scan# 452  
 Delta R.T. -0.026 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am

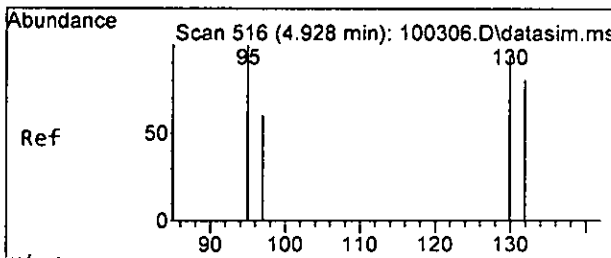
Tgt Ion: 62 Resp: 304  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 0.0 38.2



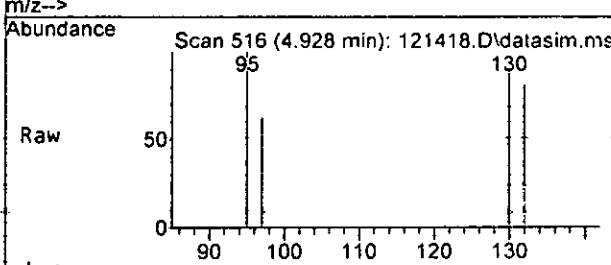
#31  
 Benzene  
 Concen: 3.295 ppb  
 RT: 4.39 min Scan# 453  
 Delta R.T. 0.009 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am

Tgt Ion: 78 Resp: 15550  
 Ion Ratio Lower Upper  
 78 100  
 52 19.2 0.0 49.9

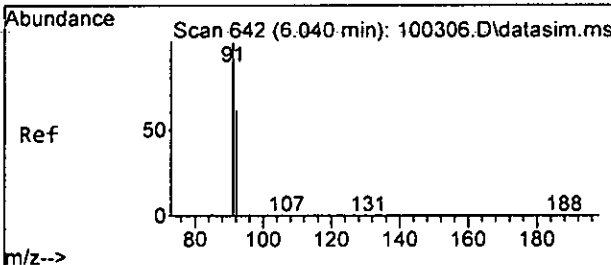
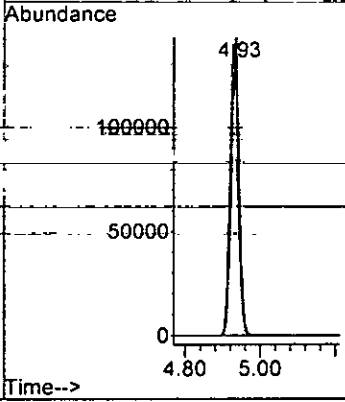
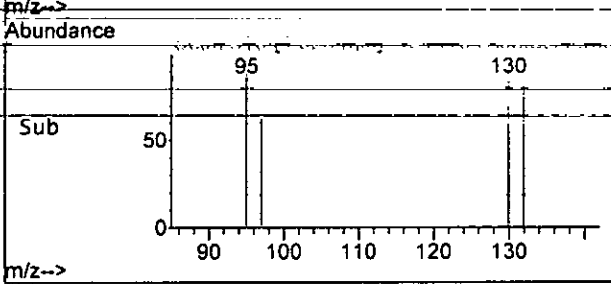




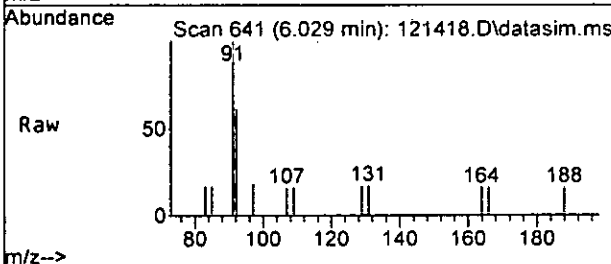
#32  
 Trichloroethene  
 Concen: 136.575 ppb  
 RT: 4.93 min Scan# 516  
 Delta R.T. -0.000 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am



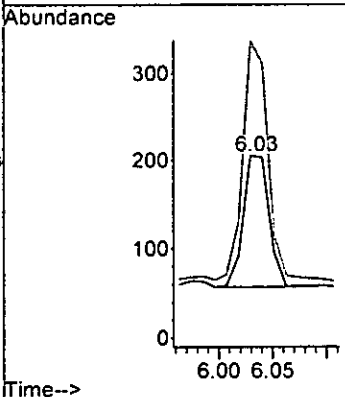
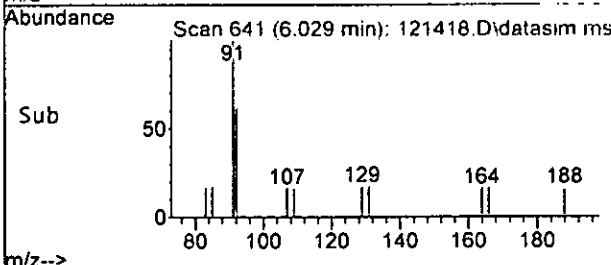
Tgt Ion: 95 Resp: 203602  
 Ion Ratio Lower Upper  
 95 100  
 97 61.8 30.5 90.5  
 130 91.9 60.4 120.4  
 132 80.9 48.0 108.0

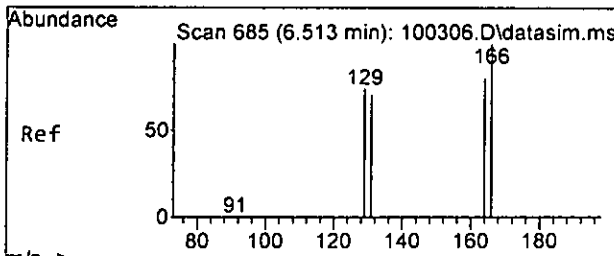


#40  
 Toluene  
 Concen: 0.077 ppb  
 RT: 6.03 min Scan# 641  
 Delta R.T. 0.000 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am



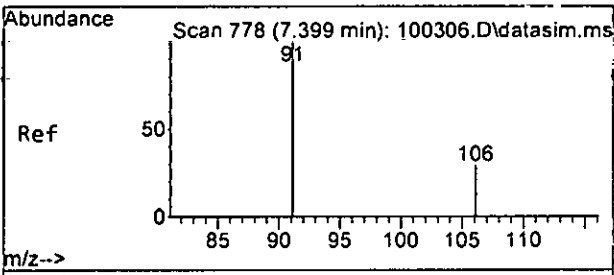
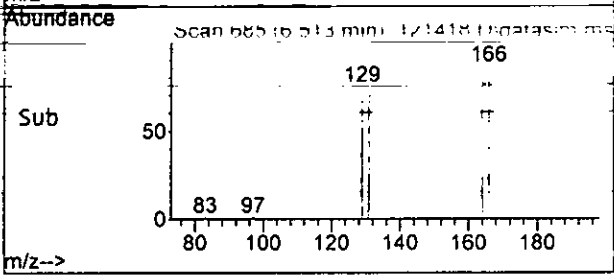
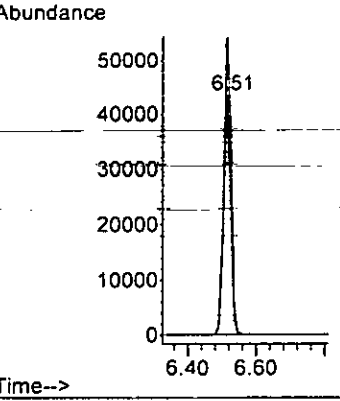
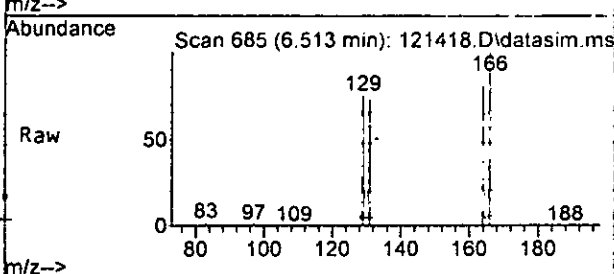
Tgt Ion: 92 Resp: 245  
 Ion Ratio Lower Upper  
 92 100  
 91 183.8 135.6 195.6





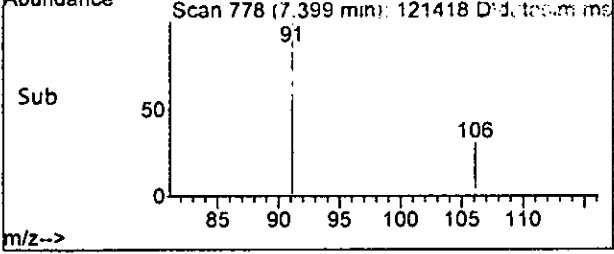
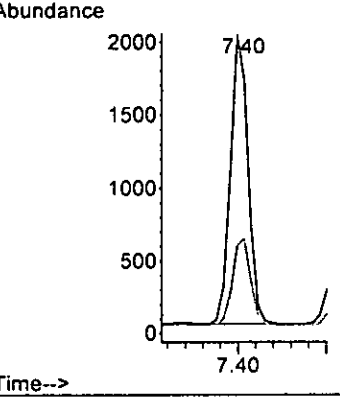
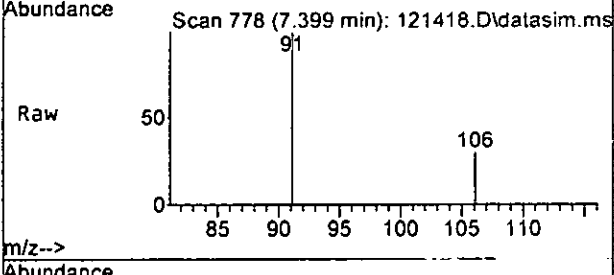
#45  
 Tetrachloroethene  
 Concen: 48.078 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. -0.000 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am

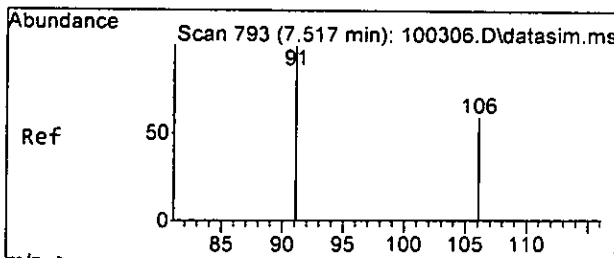
Tgt Ion	Resp	Lower	Upper
164	100		
129	93.8	62.6	122.6
131	90.2	58.6	118.6
166	125.3	94.4	154.4



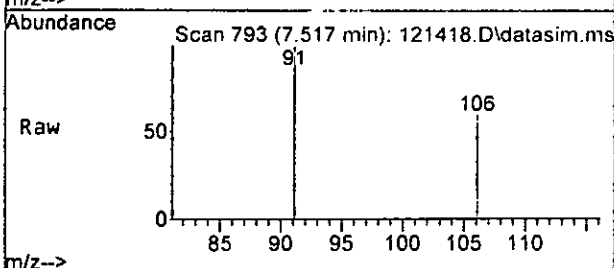
#49  
 Ethylbenzene  
 Concen: 0.458 ppb  
 RT: 7.40 min Scan# 778  
 Delta R.T. 0.000 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am

Tgt Ion	Resp	Lower	Upper
91	100		
106	27.8	0.0	58.3

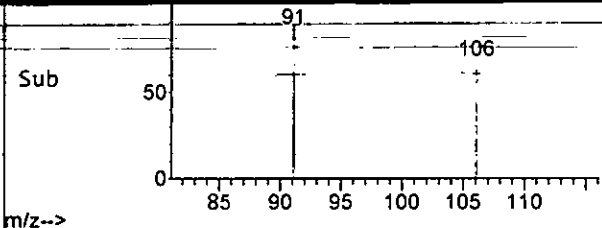
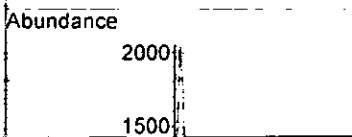




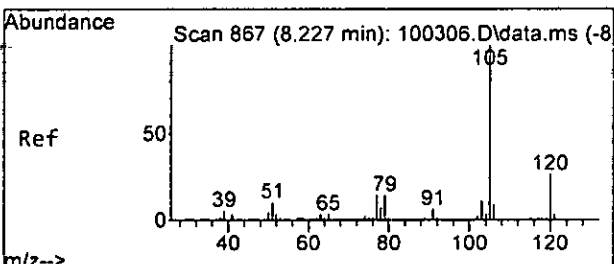
#51  
 m,p-Xylene  
 Concen: 0.148 ppb  
 RT: 7.52 min Scan# 793  
 Delta R.T. 0.008 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am



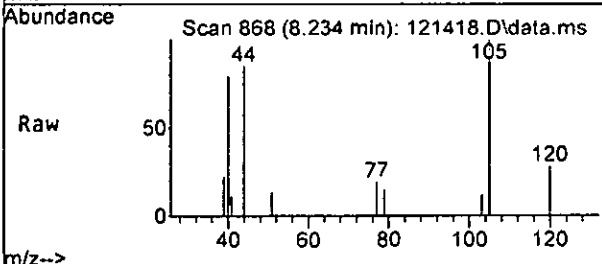
Tgt Ion: 106 Resp: 334  
 Ion Ratio Lower Upper  
 106 100  
 91 181.3 147.7 207.7



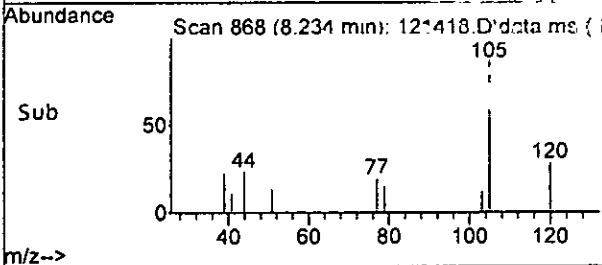
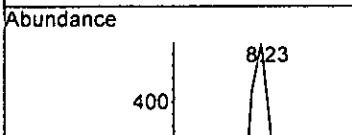
Time-->



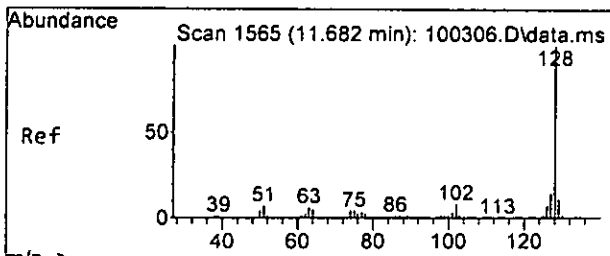
#54  
 Isopropylbenzene  
 Concen: 0.130 ppb  
 RT: 8.23 min Scan# 868  
 Delta R.T. 0.007 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am



Tgt Ion: 105 Resp: 758  
 Ion Ratio Lower Upper  
 105 100  
 120 27.7 0.0 56.7



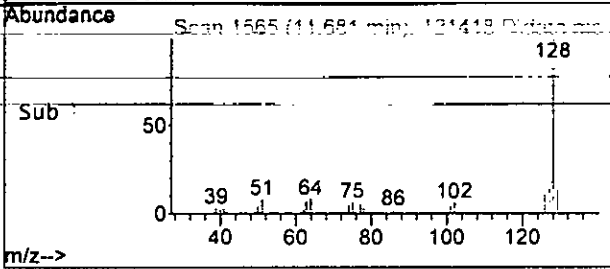
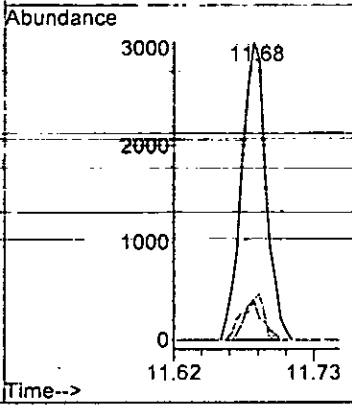
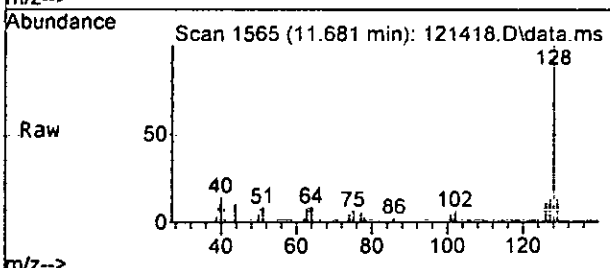
Time-->



#75  
 Naphthalene  
 Concen: 0.768 ppb  
 RT: 11.68 min Scan# 1565  
 Delta R.T. 0.000 min  
 Lab File: 121418.D  
 Acq: 14 Dec 2022 11:21 am

Tgt Ion: 128 Resp: 4230

Ion	Ratio	Lower	Upper
128	100		
129	13.2	0.0	41.9
127	13.0	0.0	43.8





Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121418.D  
 Acq On : 14 Dec 2022 11:21 am  
 Operator : LM  
 Sample : 212113-04 rr  
 Misc : water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 14 12:04:45 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	47239	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	37214	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	21216	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	12448	9.987	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	99.90%
30) 1,2-Dichloroethane-d4	4.36	102	2785	9.772	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	97.70%
35) Toluene-d8	5.98	98	44902	9.900	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	99.00%
57) 4-Bromofluorobenzene	8.38	95	17757	9.913	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	99.10%
<b>Target Compounds</b>						
2) Ethanol	0.00		0	N.D.		
4) Dichlorodifluoromethane	0.00		0	N.D.		
5) Chloromethane	1.23	50	642	N.D.		
6) Vinyl chloride	1.30	62	22110	6.396	ppb	96
7) Bromomethane	1.51	94	97	N.D.		
8) Chloroethane	0.00		0	N.D.	d	
9) Trichlorofluoromethane	0.00		0	N.D.		
10) 2-Propanol	0.00		0	N.D.		
11) Acetone	2.28	58	378	2.149	ppb	# 14
12) 1,1-Dichloroethene	2.19	96	394	0.347	ppb	# 79
13) Hexane	3.05	57	951	0.464	ppb	86
14) Methylene chloride	2.61	84	2634	2.073	ppb	92
15) t-Butyl alcohol (TBA)	0.00		0	N.D.		
16) Methyl t-butyl ether (...)	0.00		0	N.D.		
17) trans-1,2-Dichloroethene	2.83	96	54181	42.129	ppb	97
18) Diisopropyl ether (DIPE)	0.00		0	N.D.		
19) 1,1-Dichloroethane	0.00		0	N.D.		
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.		
21) 2,2-Dichloropropane	3.67	77	79	N.D.		
22) cis-1,2-Dichloroethene	3.67	96	378990	280.144	ppb	91
23) Chloroform	3.94	83	191	N.D.		
24) 2-Butanone (MEK)	3.72	43	163	0.189	ppb	63
25) t-Amyl methyl ether (T...)	4.43	73	185	N.D.		
26) 1,2-Dichloroethane (EDC)	4.38	62	304	0.156	ppb	77
27) 1,1,1-Trichloroethane	0.00		0	N.D.		
28) 1,1-Dichloropropene	0.00		0	N.D.		
29) Carbon tetrachloride	0.00		0	N.D.		
31) Benzene	4.39	78	15550	3.295	ppb	98
32) Trichloroethene	4.93	95	203602	136.575	ppb	98
33) 1,2-Dichloropropane	0.00		0	N.D.		
34) Bromodichloromethane	5.25	83	57	N.D.		
36) Dibromomethane	0.00		0	N.D.		

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121418.D  
 Acq On : 14 Dec 2022 11:21 am  
 Operator : LM  
 Sample : 212113-04 rr  
 Misc : water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

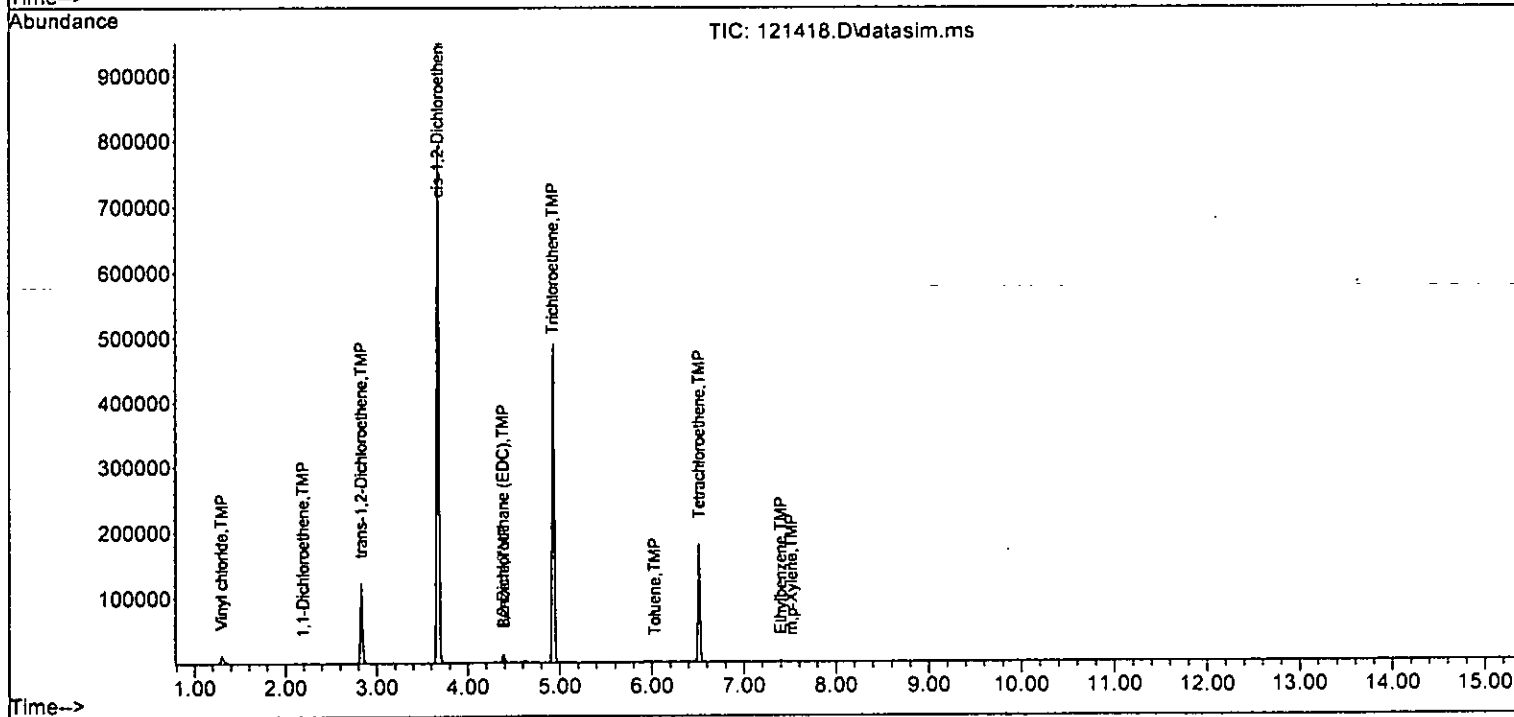
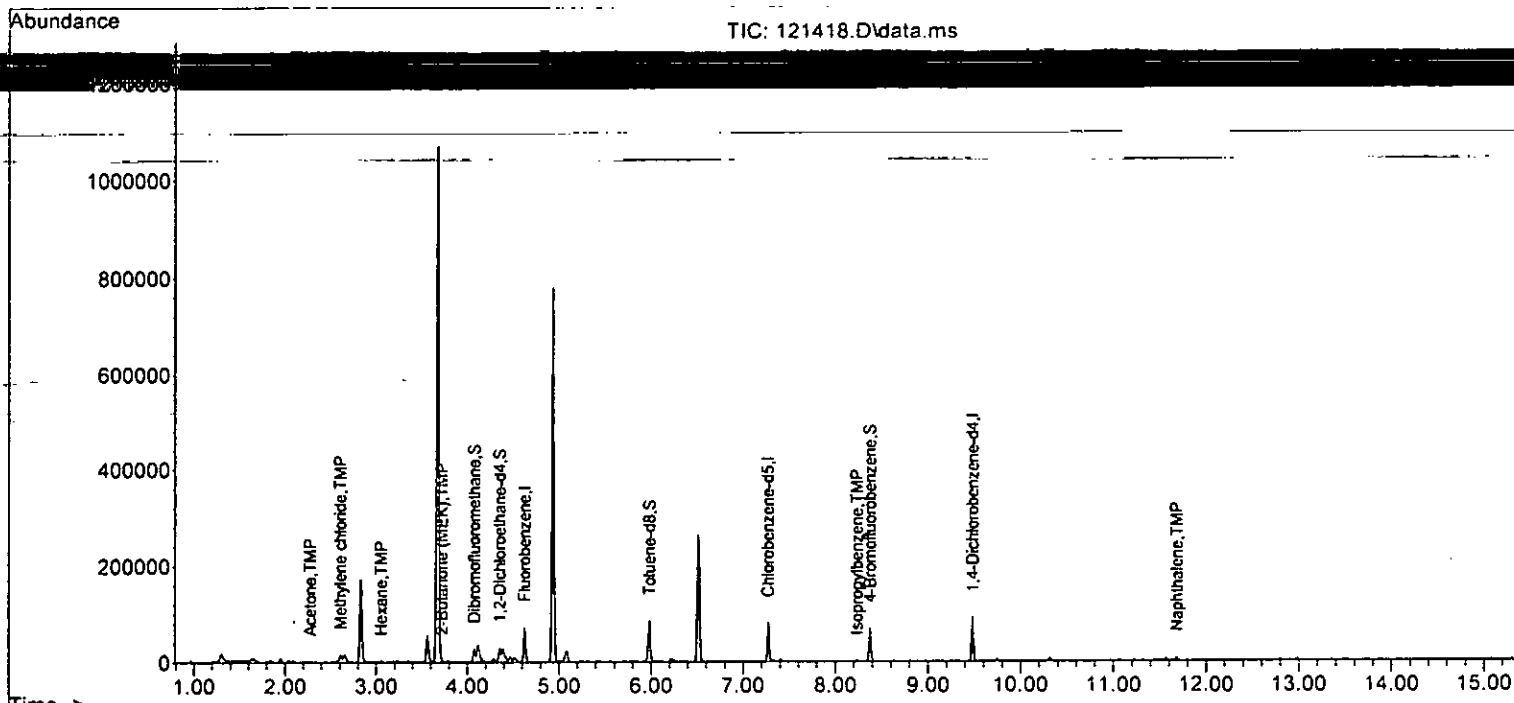
Quant Time: Dec 14 12:04:45 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.03	92	245	0.077	ppb	87
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D. d	
43) 2-Hexanone	6.62	43	81		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.51	164	61223	48.078	ppb	99
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.40	91	2748	0.458	ppb	99
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.52	106	334	0.148	ppb	97
52) o-Xylene	0.00		0		N.D.	
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	8.23	105	758	0.130	ppb	98
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	8.63	91	683		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	8.79	105	233		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	0.00		0		N.D. d	
64) 4-Chlorotoluene	0.00		0		N.D. d	
65) tert-Butylbenzene	9.10	119	214		N.D.	
66) 1,2,4-Trimethylbenzene	9.16	105	232		N.D.	
67) sec-Butylbenzene	9.32	105	271		N.D.	
68) p-Isopropyltoluene	9.46	119	61		N.D.	
69) 1,3-Dichlorobenzene	0.00		0		N.D.	
70) 1,4-Dichlorobenzene	0.00		0		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.68	128	4230	0.768	ppb	97
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-14-22\  
 Data File : 121418.D  
 Acq On : 14 Dec 2022 11:21 am  
 Operator : LM  
 Sample : 212113-04 rr  
 Misc : water  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS11

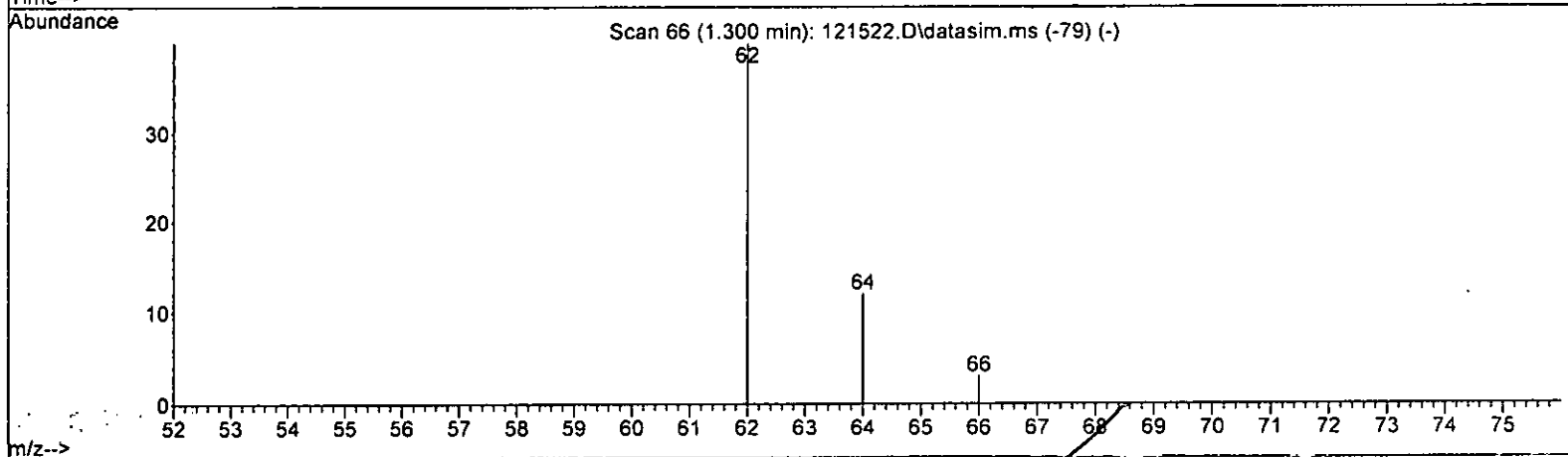
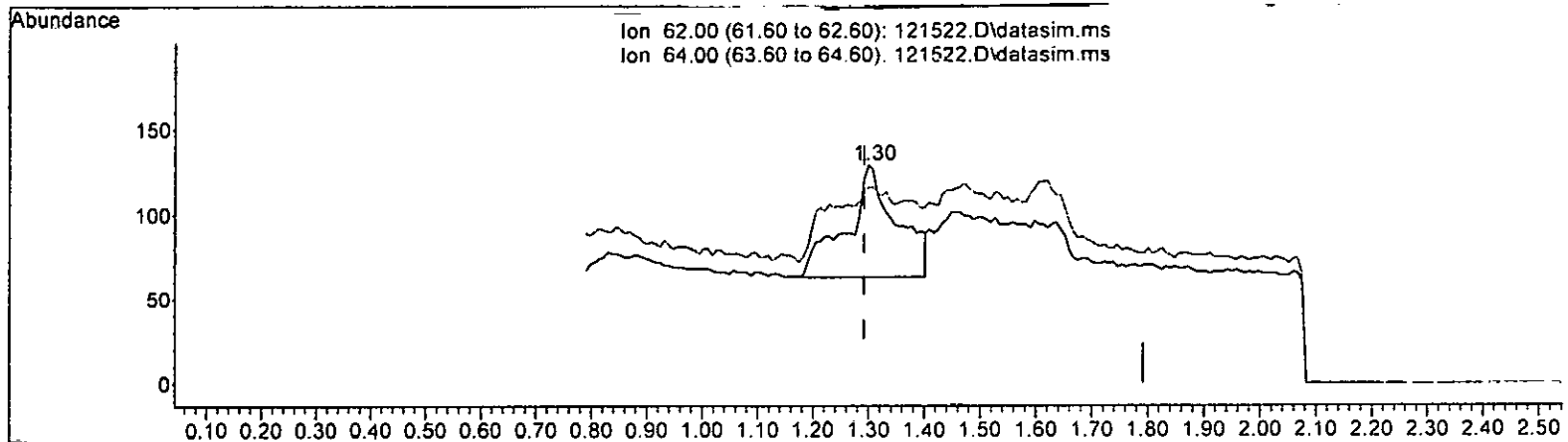
Quant Time: Dec 14 12:04:45 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121522.D  
 Acq On : 15 Dec 2022 01:39 pm  
 Operator : LM  
 Sample : 212113-05 rr  
 Misc : water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 13:53:57 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121522.D\data.ms

(6) Vinyl chloride (TMP)

1.300min (+ 0.008) 0.114 ppb

response 416

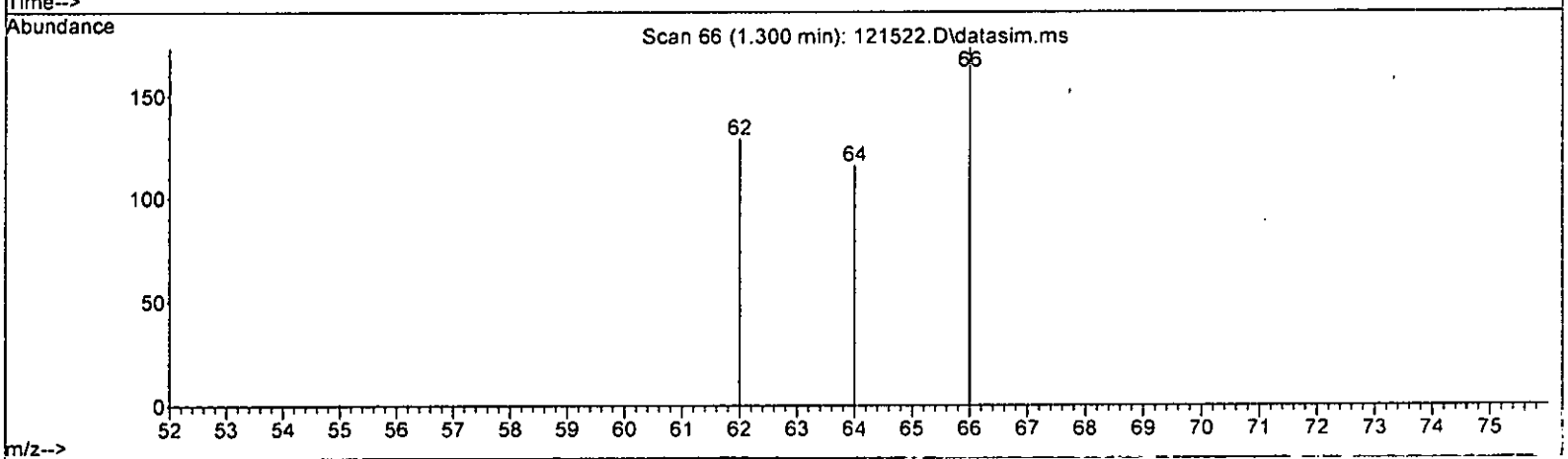
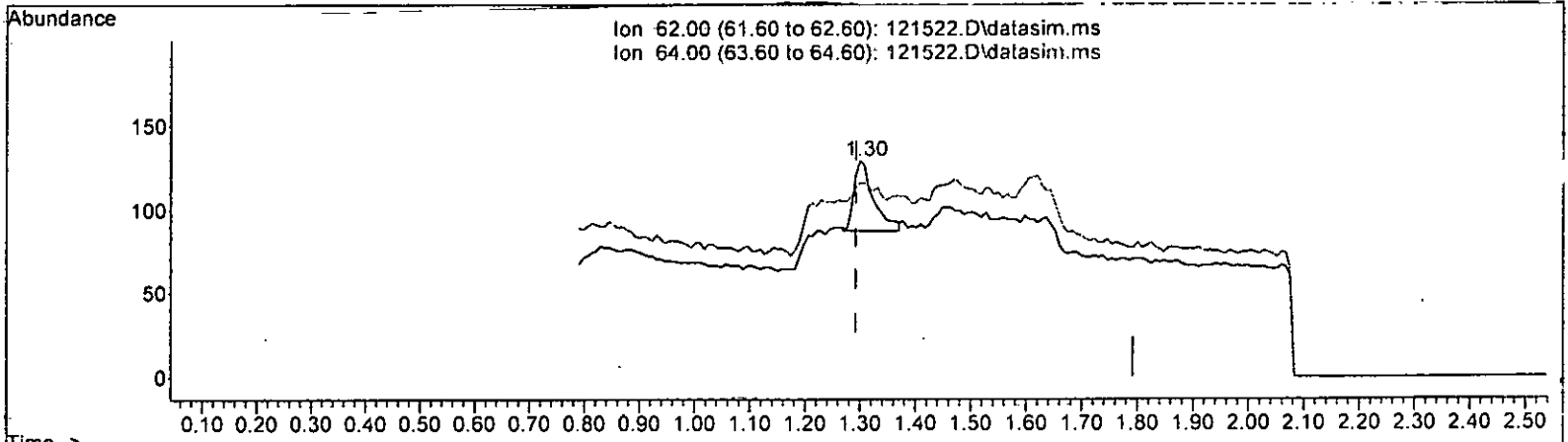
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	60.61#
0.00	0.00	0.00
0.00	0.00	0.00

*W 12.05*

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121522.D  
 Acq On : 15 Dec 2022 01:39 pm  
 Operator : LM  
 Sample : 212113-05 rr  
 Misc : water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 13:53:57 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121522.D\data.ms

(6) Vinyl chloride (TMP)

1.300min (+ 0.008) 0.029 ppb m

response 104

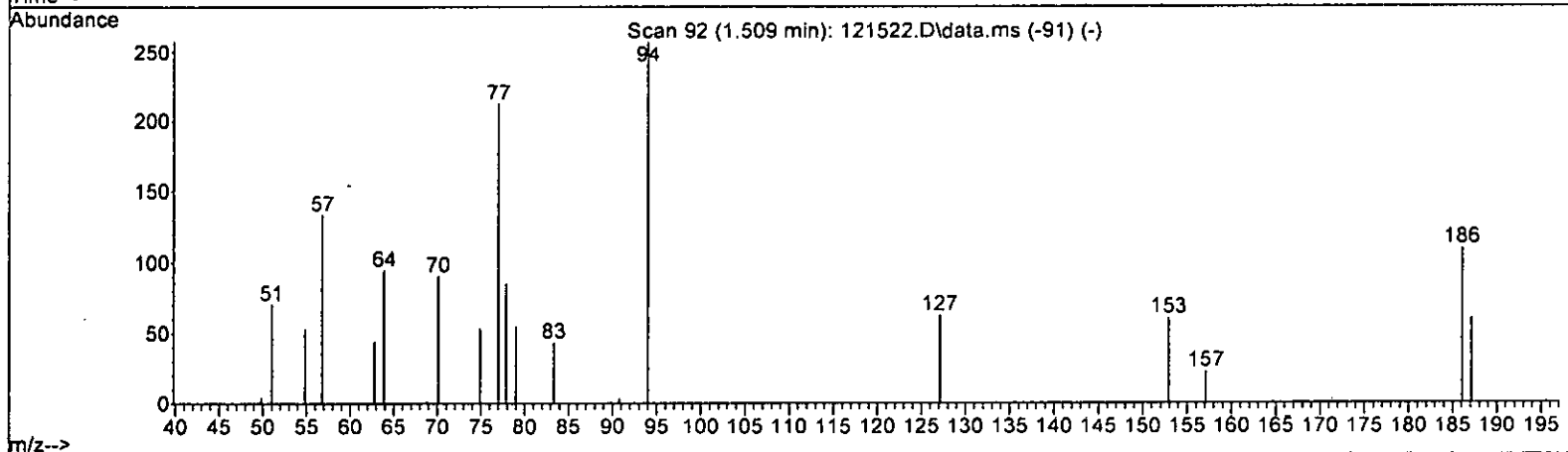
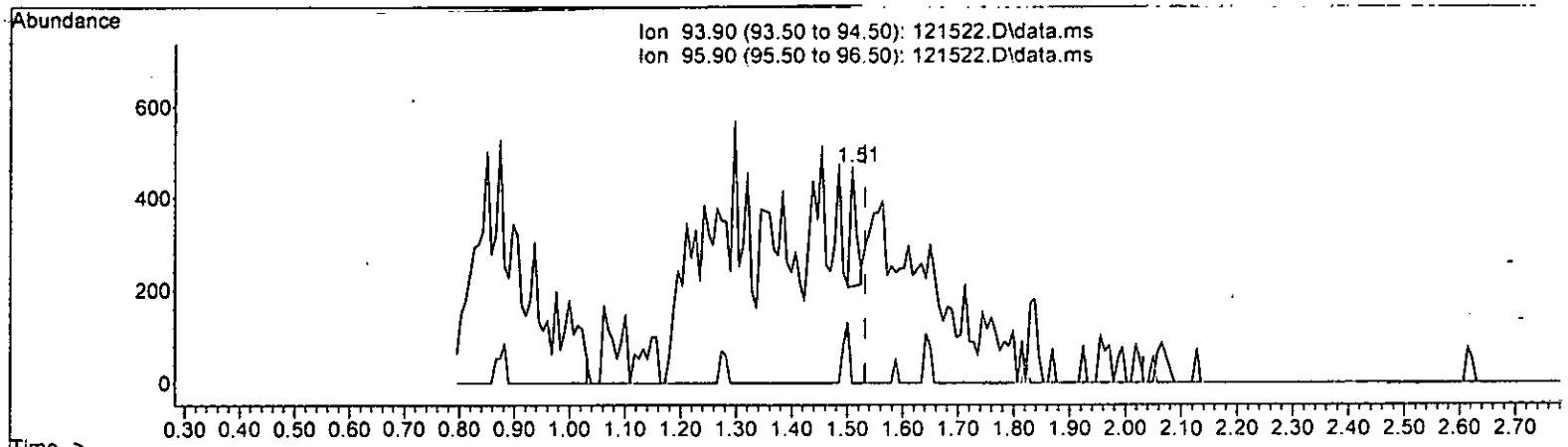
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	28.80	89.92#
0.00	0.00	0.00
0.00	0.00	0.00

m 12.15

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121522.D  
 Acq On : 15 Dec 2022 01:39 pm  
 Operator : LM  
 Sample : 212113-05 rr  
 Misc : water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 13:53:57 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



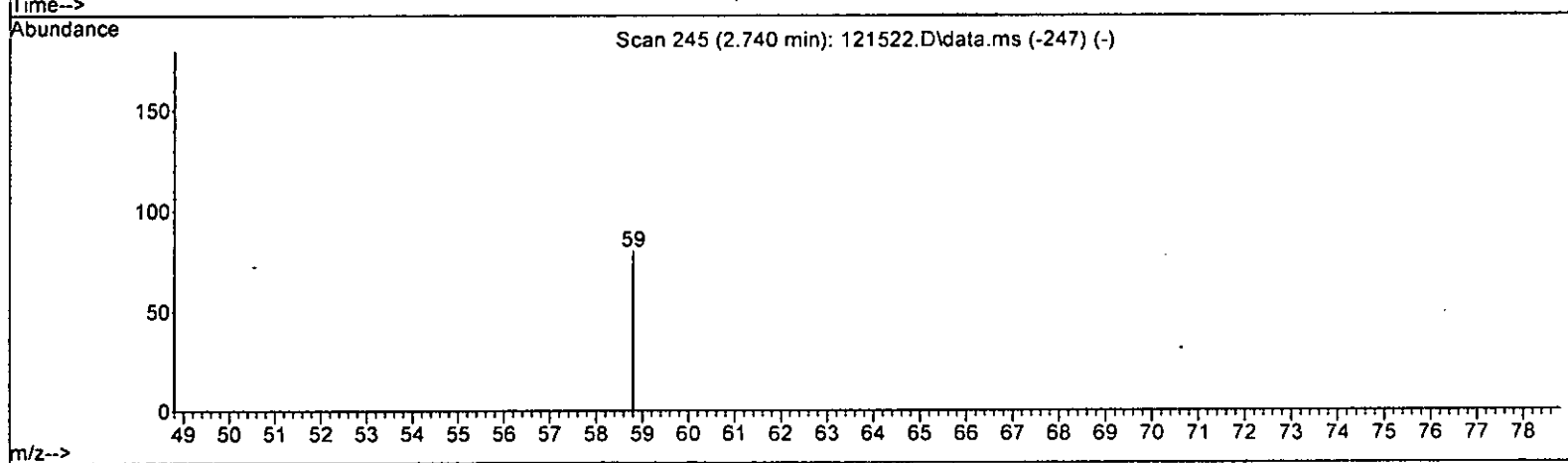
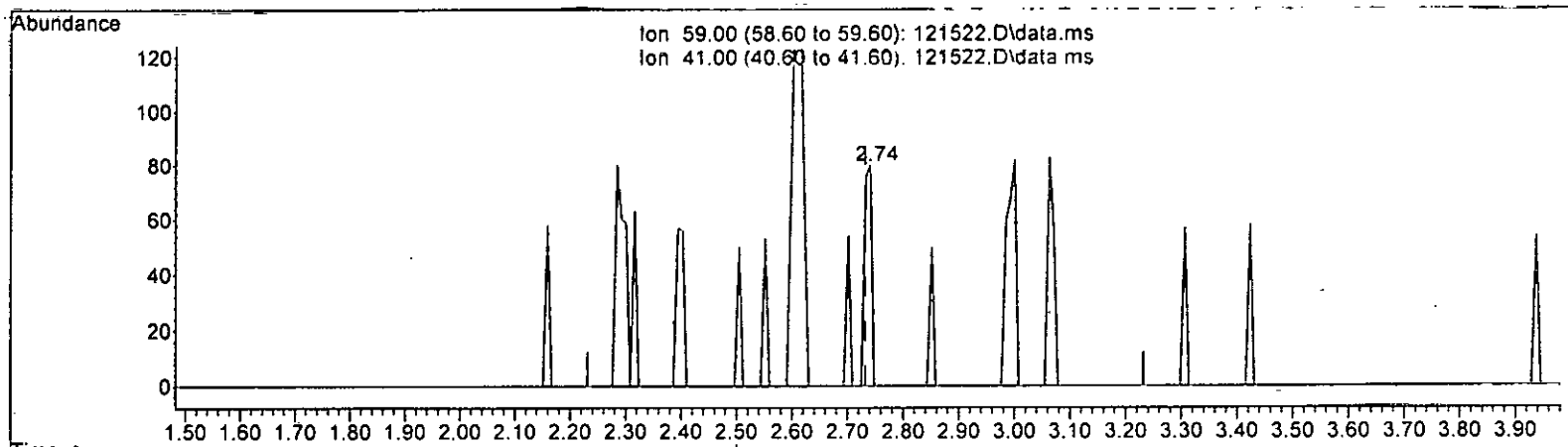
TIC: 121522.D\data.ms

(7) Bromomethane (TMP)		
1.509min (-0.023) 0.105 ppb		
response	193	
Ion	Exp%	Act%
93.90	100.00	100.00
95.90	69.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121522.D  
 Acq On : 15 Dec 2022 01:39 pm  
 Operator : LM  
 Sample : 212113-05 rr  
 Misc : water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 13:53:57 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



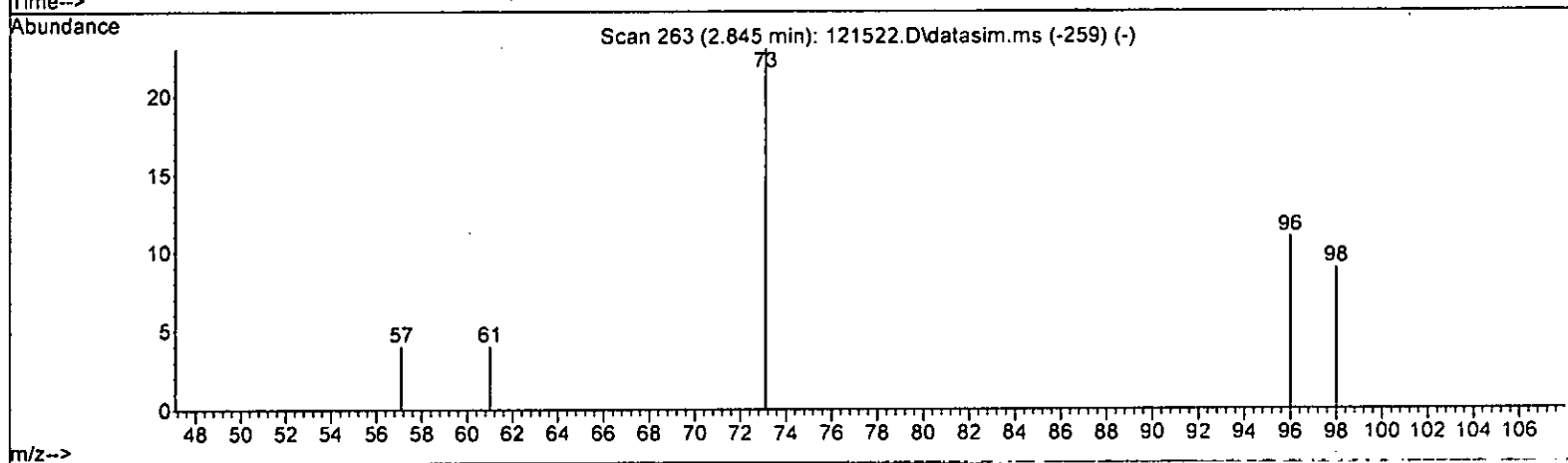
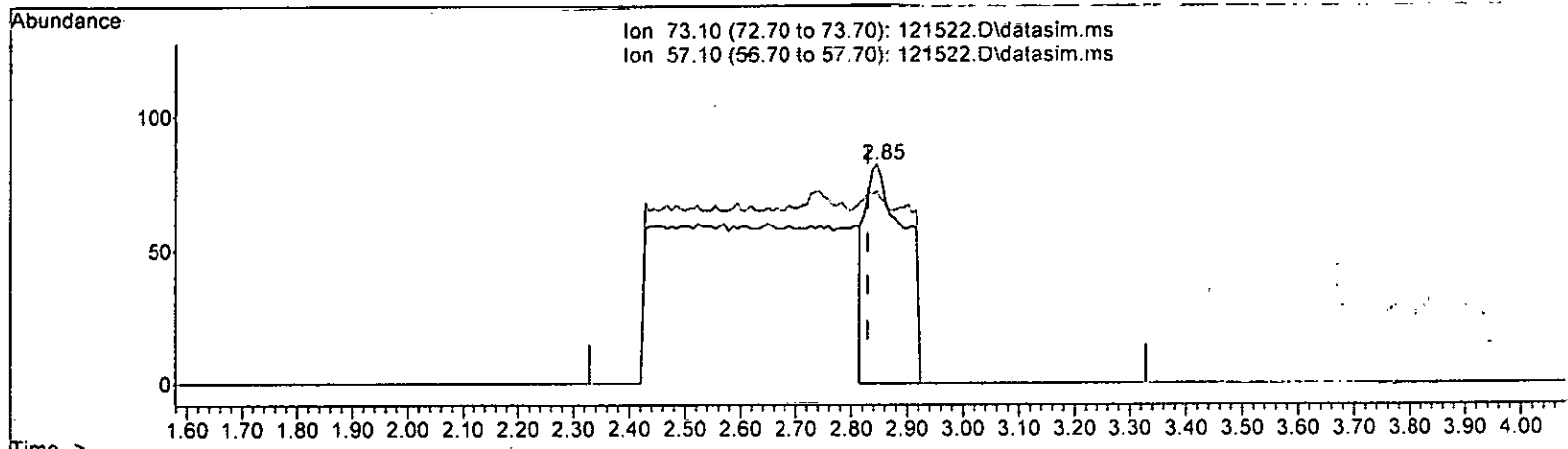
TIC: 121522.D\data.ms

(15) t-Butyl alcohol (TBA) (TMP)		
2.740min (+ 0.008)	0.322 ppb	
response	74	
Ion	Exp%	Act%
59.00	100.00	100.00
41.00	20.90	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121522.D  
 Acq On : 15 Dec 2022 01:39 pm  
 Operator : LM  
 Sample : 212113-05 rr  
 Misc : water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 13:53:57 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121522.D\data.ms

(16) Methyl t-butyl ether (MTBE) (TMP)

2.845min (+ 0.016) 0.111 ppb

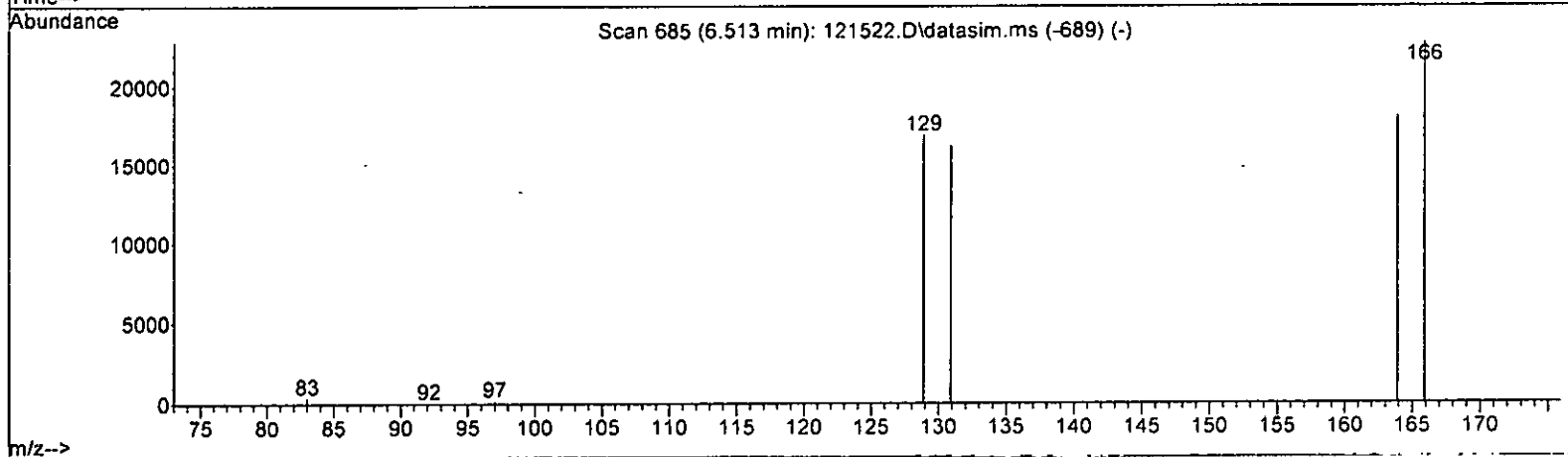
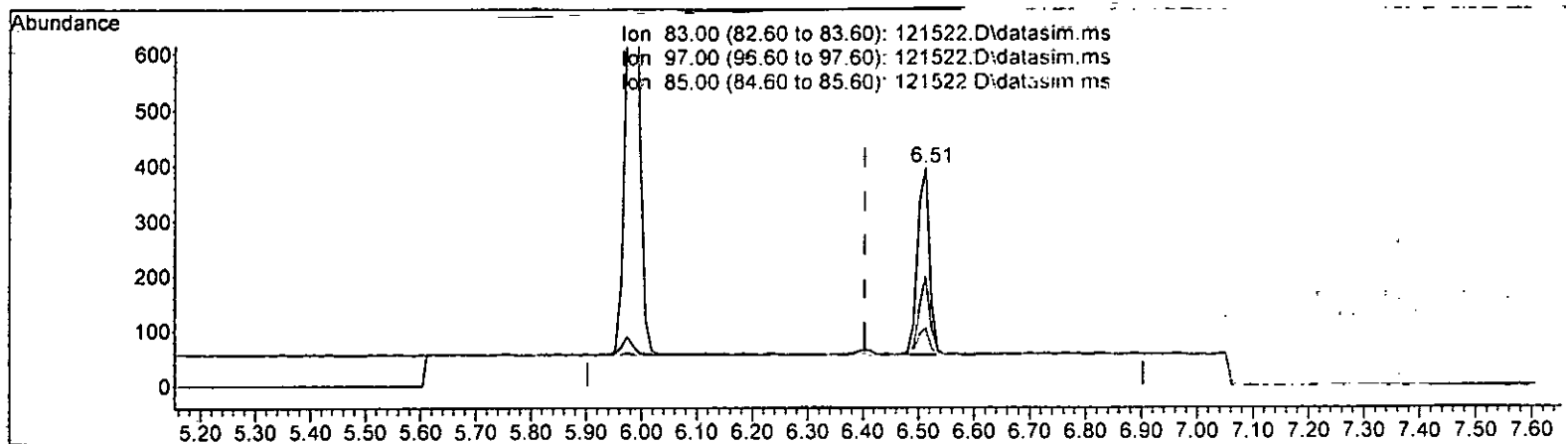
response	405	
Ion	Exp%	Act%
73.10	100.00	100.00
57.10	24.80	87.80#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121522.D  
 Acq On : 15 Dec 2022 01:39 pm  
 Operator : LM  
 Sample : 212113-05 rr  
 Misc : water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 13:53:57 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121522.D\data.ms

(42) 1,1,2-Trichloroethane (TMP)

6.513min (+ 0.110) 0.499 ppb

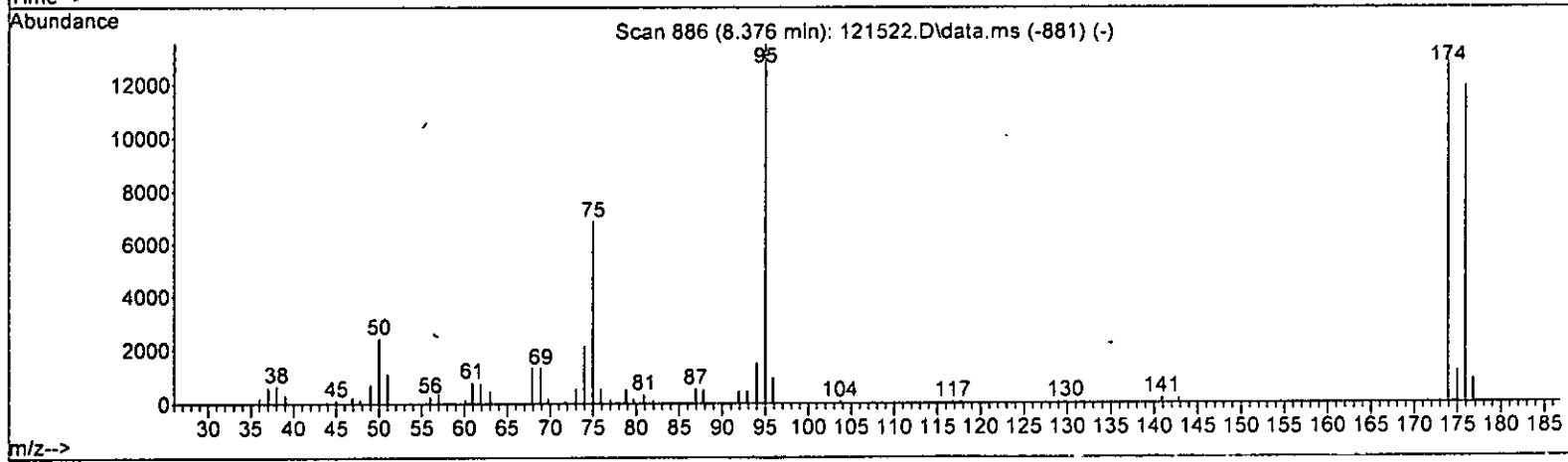
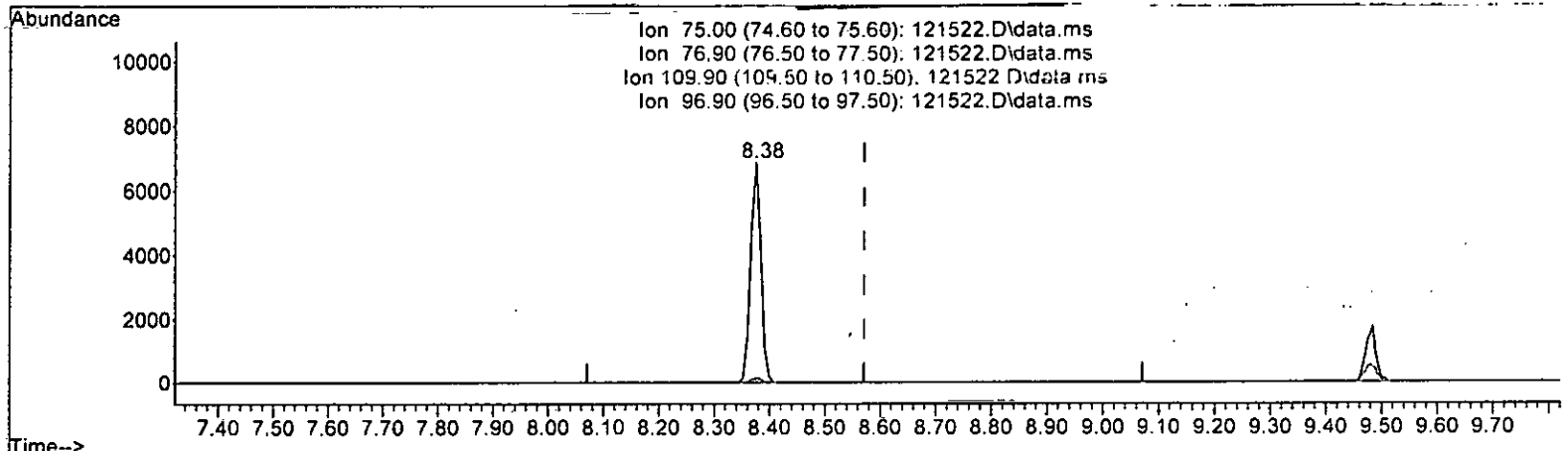
response 513

Ion	Exp%	Act%
83.00	100.00	100.00
97.00	105.10	42.35#
85.00	63.60	14.12#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121522.D  
 Acq On : 15 Dec 2022 01:39 pm  
 Operator : LM  
 Sample : 212113-05 rr  
 Misc : water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 13:53:57 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121522.D\data.ms

(62) 1,2,3-Trichloropropane (TMP)			
8.376min (-0.195) 7.268 ppb			
response	8954		
Ion	Exp%	Act%	
75.00	100.00	100.00	
76.90	29.70	1.93	
109.90	40.90	0.00#	
96.90	19.00	0.00	

Data Path : Y:\Proc\_GCM511\12-15-22\  
 Data File : 121522.D  
 Acq On : 15 Dec 2022 01:39 pm  
 Operator : LM  
 Sample : 212113-05 rr  
 Misc : water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCM511

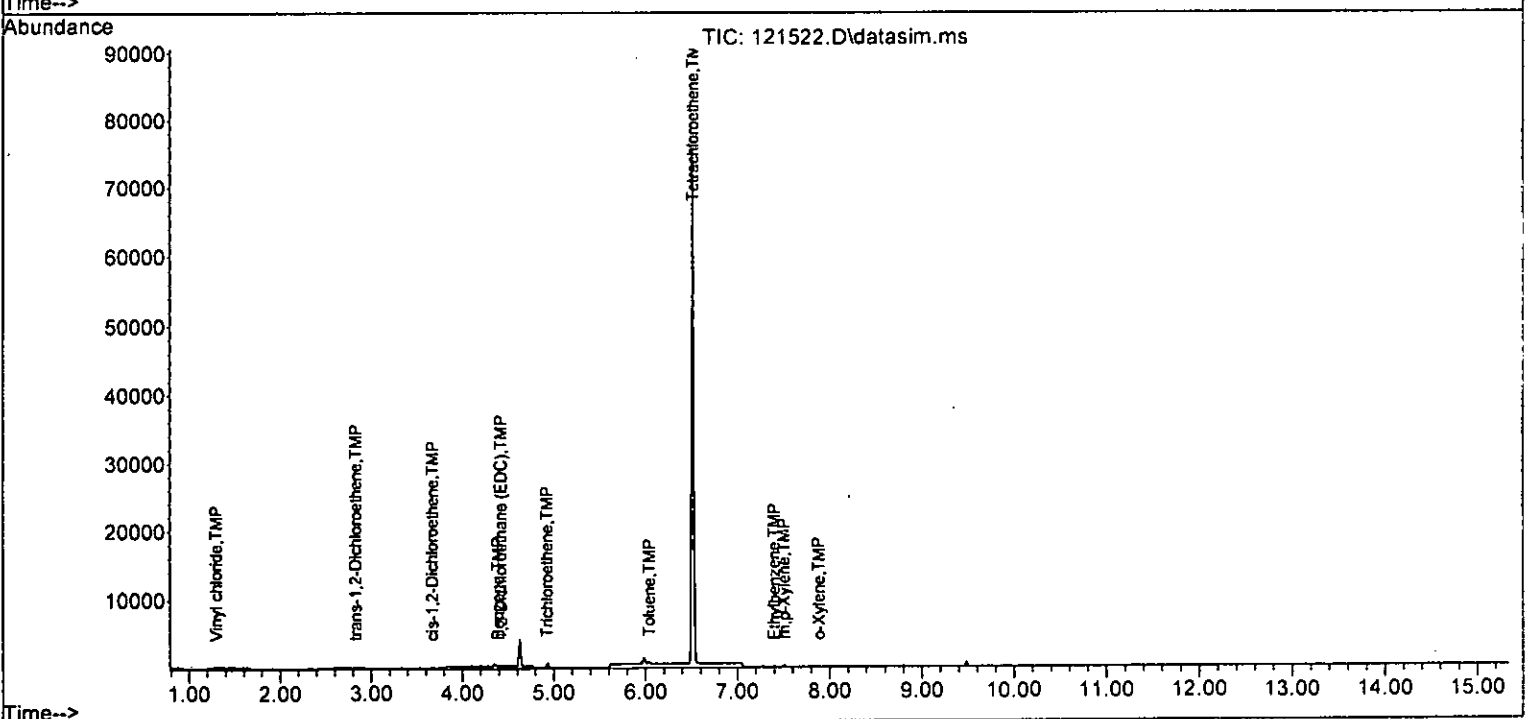
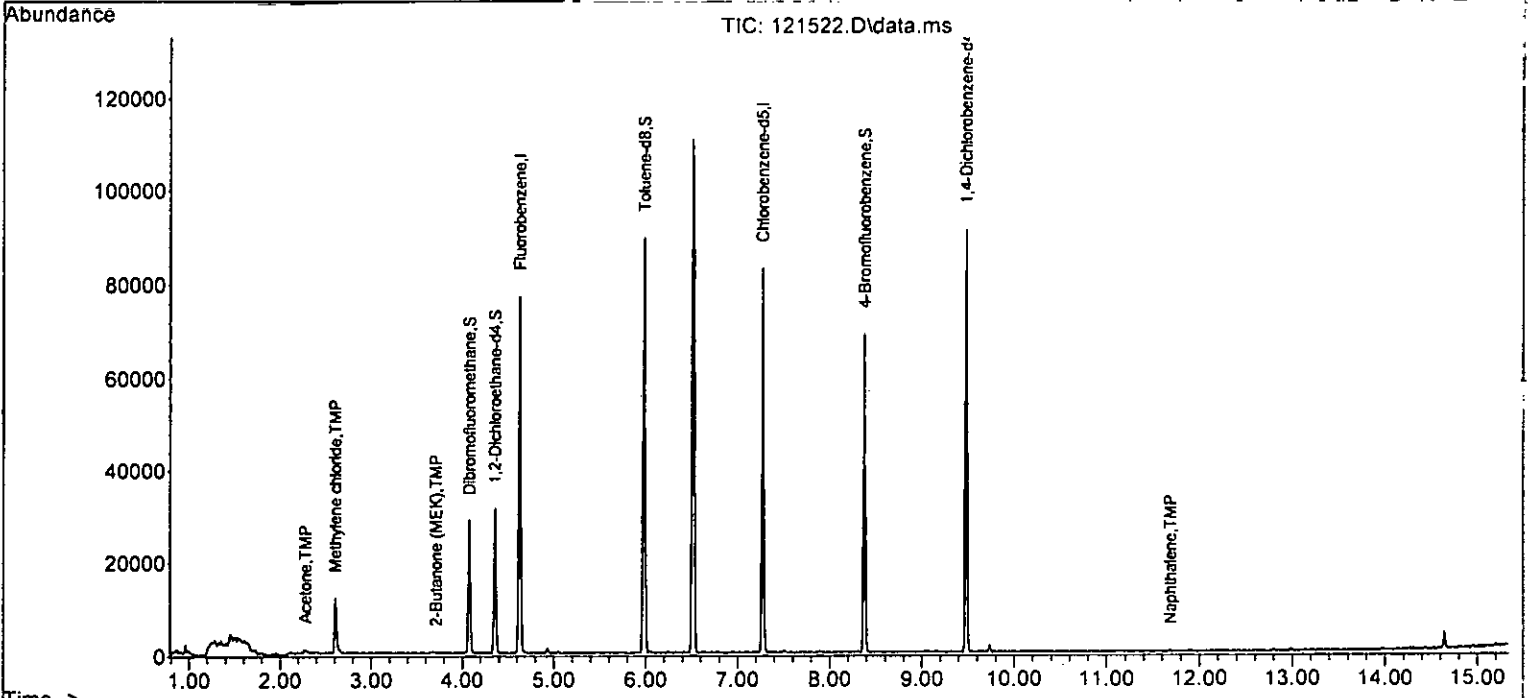
Quant Time: Dec 15 13:53:57 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

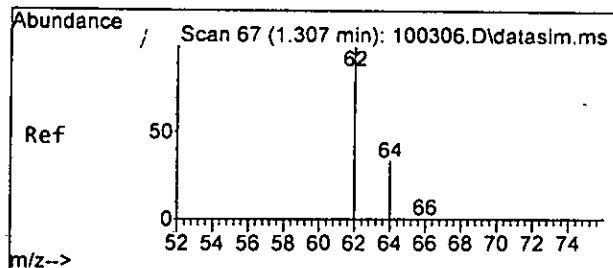
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Fluorobenzene	4.63	96	49698	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	39006	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	21028	10.000	ppb	0.00
<b>System Monitoring Compounds</b>						
3) Dibromofluoromethane	4.08	113	12782	9.748	ppb	0.00
Spiked Amount	10.000	Range	50 - 150	Recovery	=	97.50%
30) 1,2-Dichloroethane-d4	4.36	102	2944	9.819	ppb	0.00
Spiked Amount	10.000	Range	78 - 126	Recovery	=	98.20%
35) Toluene-d8	5.98	98	45273	9.488	ppb	0.00
Spiked Amount	10.000	Range	84 - 115	Recovery	=	94.90%
57) 4-Bromofluorobenzene	8.38	95	17676	9.956	ppb	0.00
Spiked Amount	10.000	Range	72 - 130	Recovery	=	99.60%
<b>Target Compounds</b>						
6) Vinyl chloride	1.30	62	104m	0.029	ppb	
11) Acetone	2.28	58	256	1.384	ppb	# 74
14) Methylene chloride	2.61	84	3943	2.949	ppb	93
17] trans-1,2-Dichloroethene	2.83	96	54	0.040	ppb	92
22] cis-1,2-Dichloroethene	3.67	96	68	0.048	ppb	94
24) 2-Butanone (MEK)	3.71	43	121	0.133	ppb	63
26] 1,2-Dichloroethane (EDC)	4.42	62	50	0.024	ppb	90
31] Benzene	4.39	78	53	0.011	ppb	94
32] Trichloroethene	4.93	95	272	0.173	ppb	98
40] Toluene	6.04	92	136	0.041	ppb	86
45] Tetrachloroethene	6.51	164	25197	18.878	ppb	99
49] Ethylbenzene	7.40	91	129	0.021	ppb	95
51] m,p-Xylene	7.51	106	123	0.052	ppb	# 71
52] o-Xylene	7.88	106	51	0.022	ppb	100
75) Naphthalene	11.69	128	268	0.049	ppb	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121522.D  
 Acq On : 15 Dec 2022 01:39 pm  
 Operator : LM  
 Sample : 212113-05 rr  
 Misc : water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS11

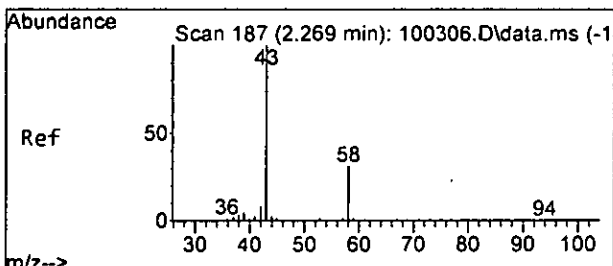
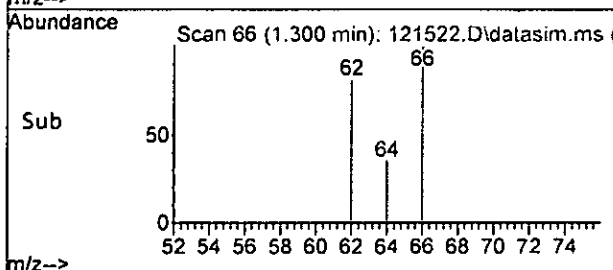
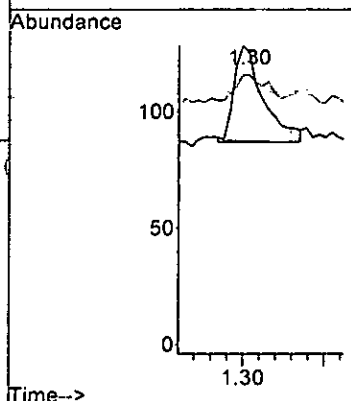
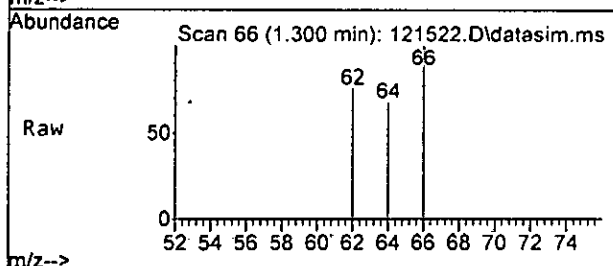
Quant Time: Dec 15 13:53:57 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M





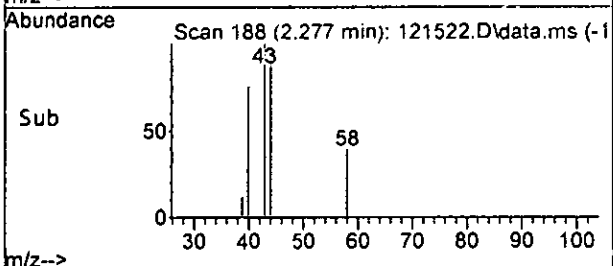
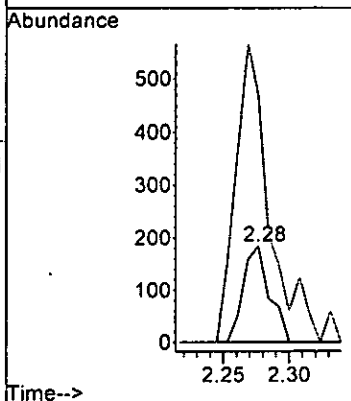
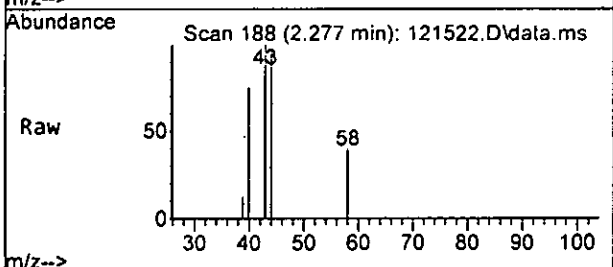
#6  
 Vinyl chloride  
 Concen: 0.029 ppb m  
 RT: 1.30 min Scan# 66  
 Delta R.T. 0.008 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

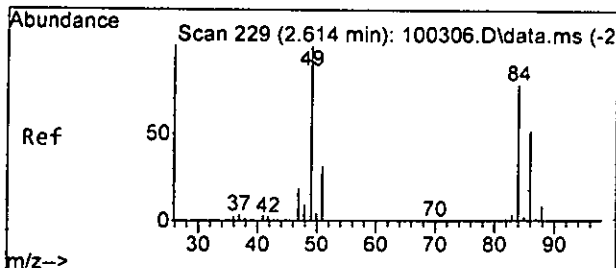
Tgt Ion: 62 Resp: 104  
 Ion Ratio Lower Upper  
 62 100  
 64 89.9 0.0 58.8#



#11  
 Acetone  
 Concen: 1.384 ppb  
 RT: 2.28 min Scan# 188  
 Delta R.T. 0.016 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

Tgt Ion: 58 Resp: 256  
 Ion Ratio Lower Upper  
 58 100  
 43 393.8 308.5 368.5#

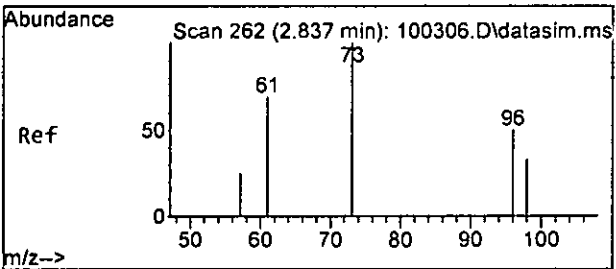
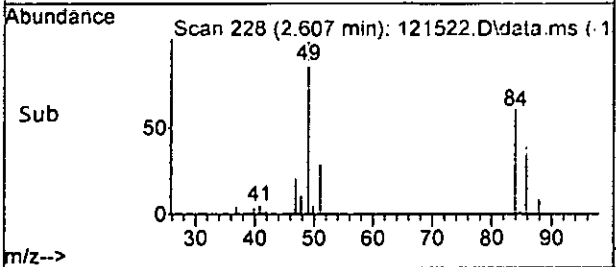
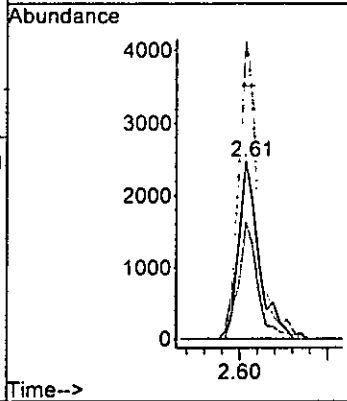
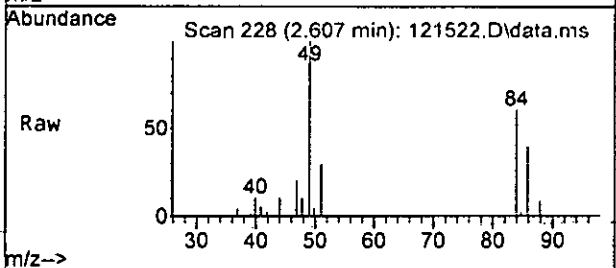




#14  
 Methylene chloride  
 Concen: 2.949 ppb  
 RT: 2.61 min Scan# 228  
 Delta R.T. 0.008 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

Tgt Ion: 84 Resp: 3943

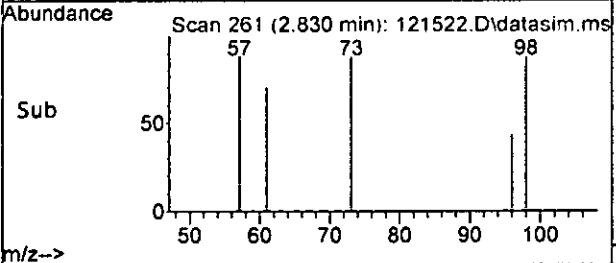
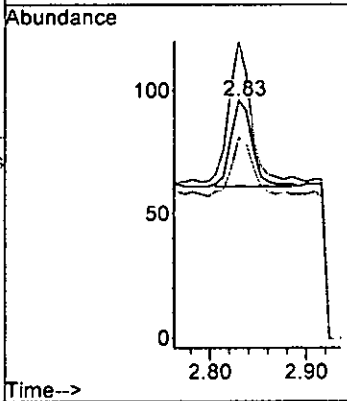
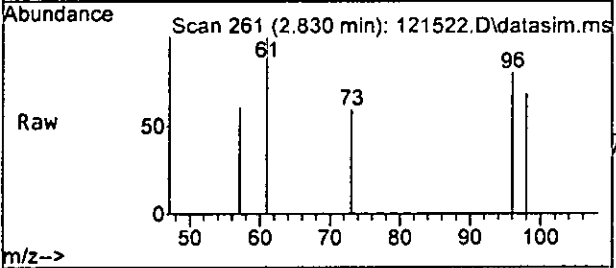
Ion	Ratio	Lower	Upper
84	100		
86	65.9	30.4	90.4
49	167.1	127.9	187.9

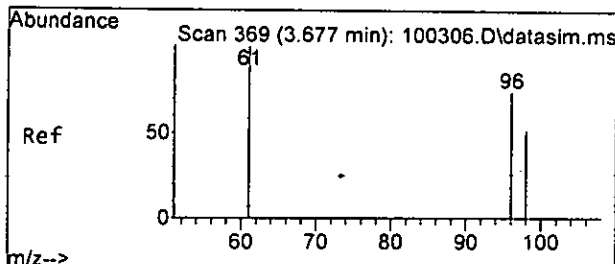


#17  
 trans-1,2-Dichloroethene  
 Concen: 0.040 ppb  
 RT: 2.83 min Scan# 261  
 Delta R.T. 0.008 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

Tgt Ion: 96 Resp: 54

Ion	Ratio	Lower	Upper
96	100		
61	160.0	141.8	201.8
98	65.7	31.0	91.0

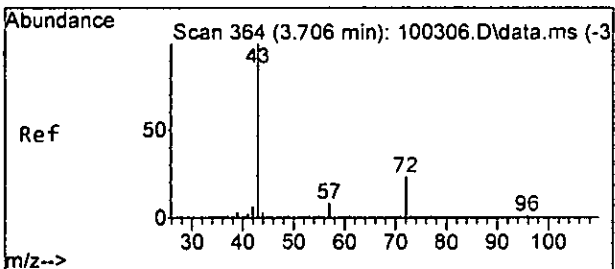
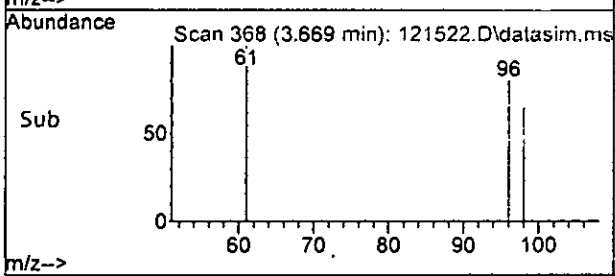
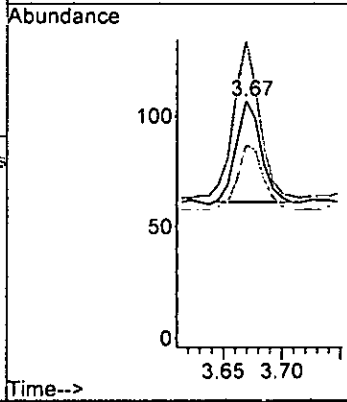
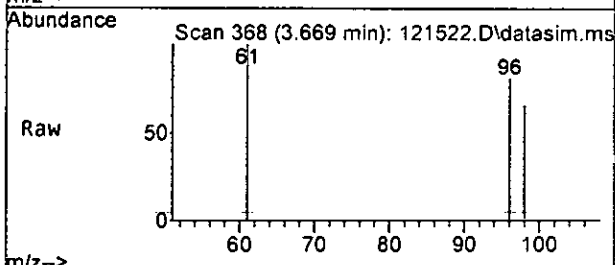




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.048 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. 0.000 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

Tgt Ion: 96 Resp: 68

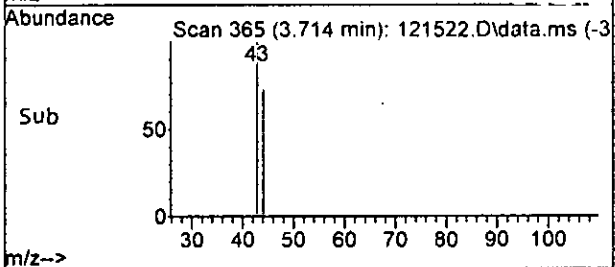
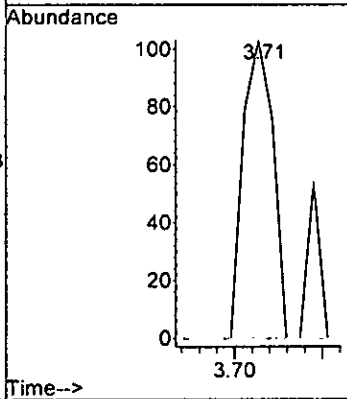
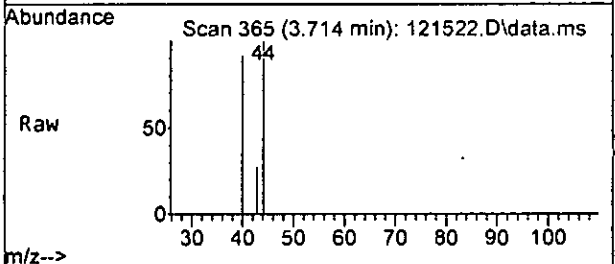
Ion	Ratio	Lower	Upper
96	100		
61	154.3	132.4	192.4
98	63.0	29.7	89.7

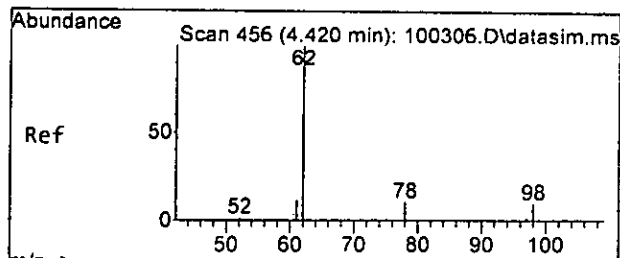


#24  
 2-Butanone (MEK)  
 Concen: 0.133 ppb  
 RT: 3.71 min Scan# 365  
 Delta R.T. 0.016 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

Tgt Ion: 43 Resp: 121

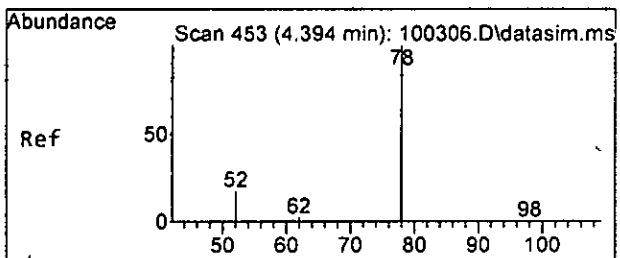
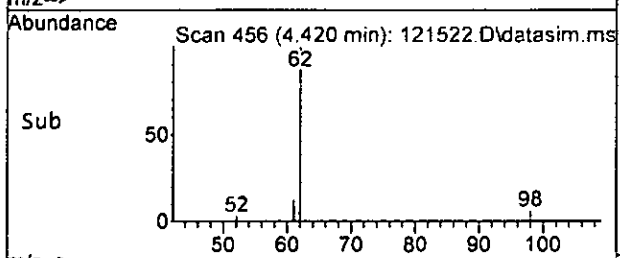
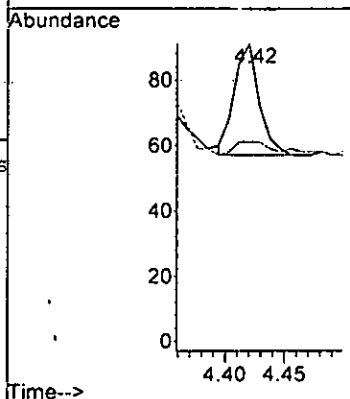
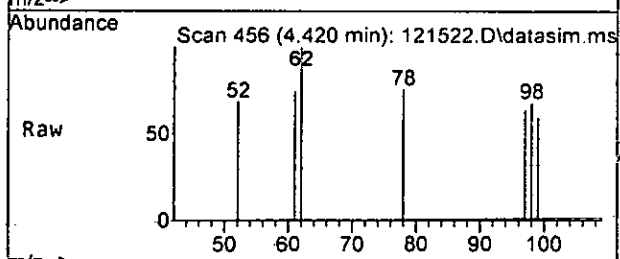
Ion	Ratio	Lower	Upper
43	100		
72	0.0	0.0	49.5
57	0.0	0.0	27.5





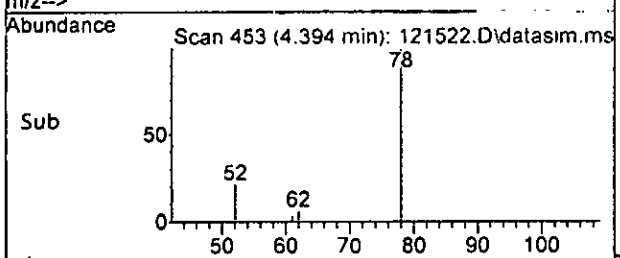
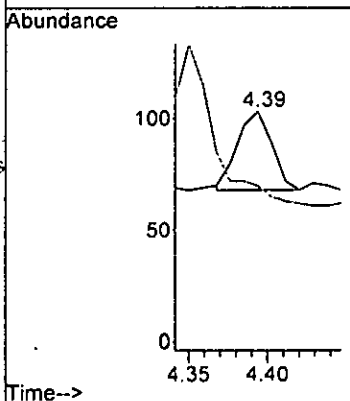
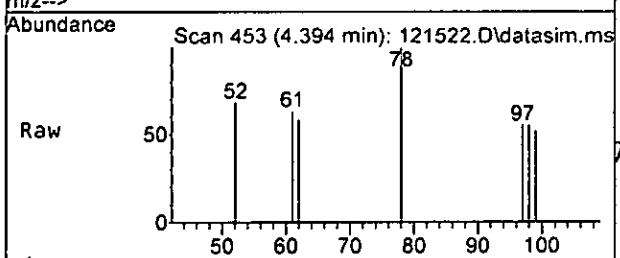
#26  
 1,2-Dichloroethane (EDC)  
 Concen: 0.024 ppb  
 RT: 4.42 min Scan# 456  
 Delta R.T. 0.009 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

Tgt Ion: 62 Resp: 50  
 Ion Ratio Lower Upper  
 62 100  
 98 11.8 0.0 38.2

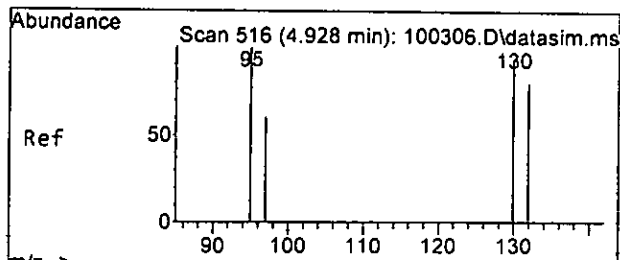


#31  
 Benzene  
 Concen: 0.011 ppb  
 RT: 4.39 min Scan# 453  
 Delta R.T. 0.009 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

Tgt Ion: 78 Resp: 53  
 Ion Ratio Lower Upper  
 78 100  
 52 22.9 0.0 49.9



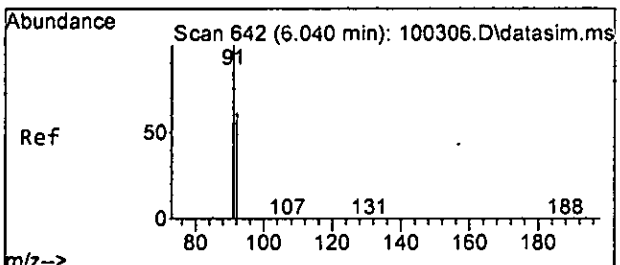
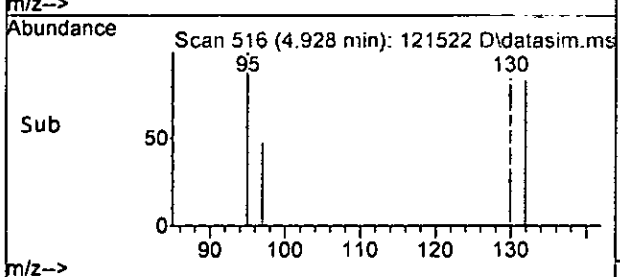
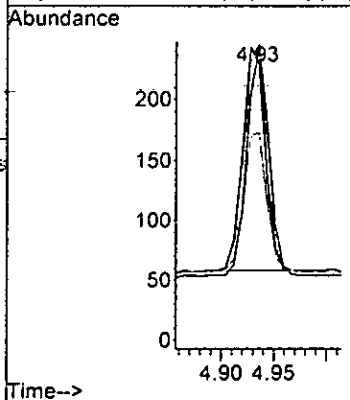
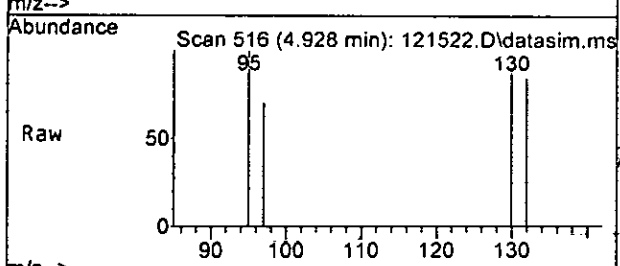




#32  
 Trichloroethene  
 Concen: 0.173 ppb  
 RT: 4.93 min Scan# 516  
 Delta R.T. -0.000 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

Tgt Ion: 95 Resp: 272

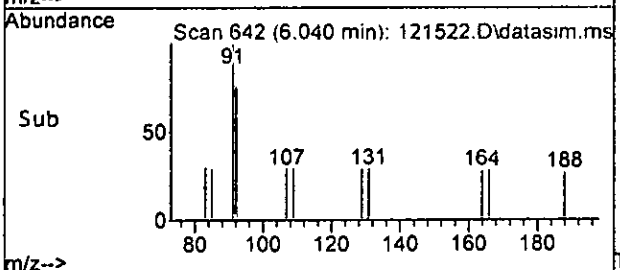
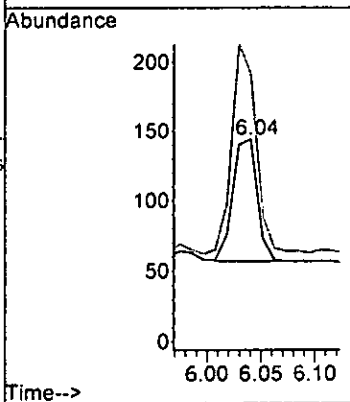
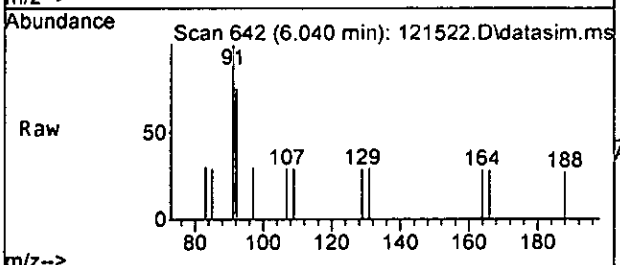
Ion	Ratio	Lower	Upper
95	100		
97	61.1	30.5	90.5
130	90.8	60.4	120.4
132	81.1	48.0	108.0

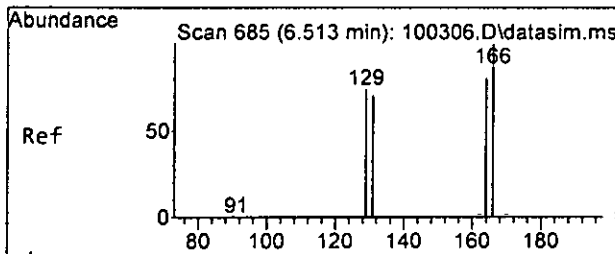


#40  
 Toluene  
 Concen: 0.041 ppb  
 RT: 6.04 min Scan# 642  
 Delta R.T. 0.011 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

Tgt Ion: 92 Resp: 136

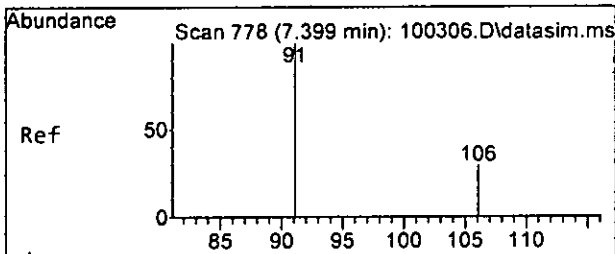
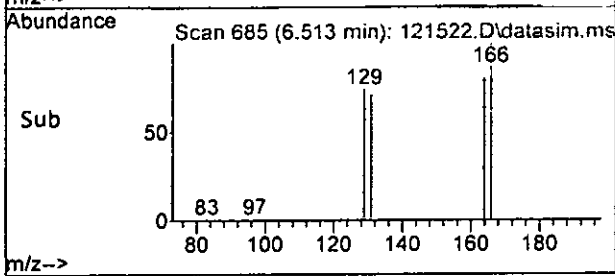
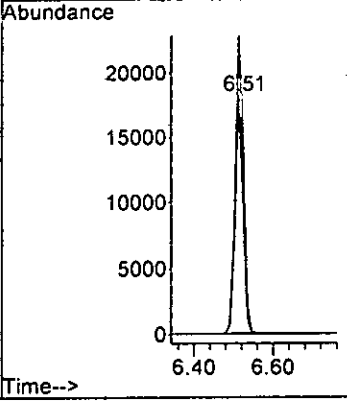
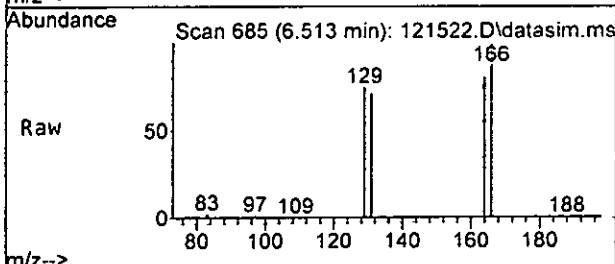
Ion	Ratio	Lower	Upper
92	100		
91	147.1	135.6	195.6





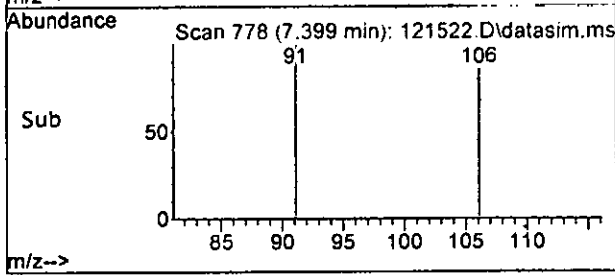
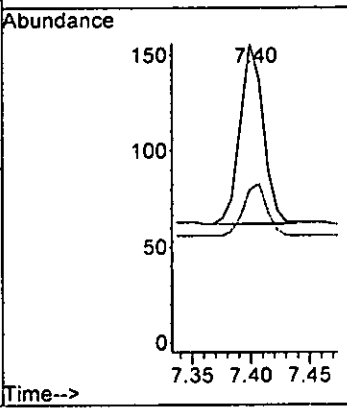
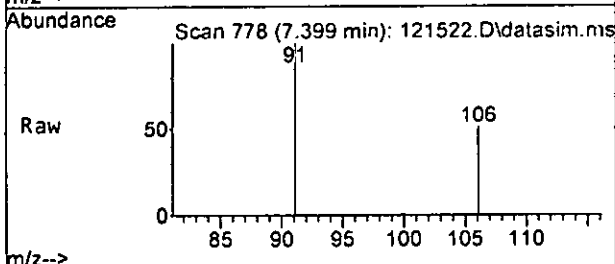
#45  
 Tetrachloroethene  
 Concen: 18.878 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. 0.000 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

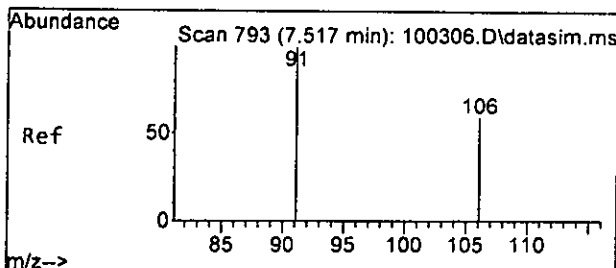
Tgt Ion	Resp	Lower	Upper
164	100		
129	93.2	62.6	122.6
131	89.6	58.6	118.6
166	125.6	94.4	154.4



#49  
 Ethylbenzene  
 Concen: 0.021 ppb  
 RT: 7.40 min Scan# 778  
 Delta R.T. 0.000 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

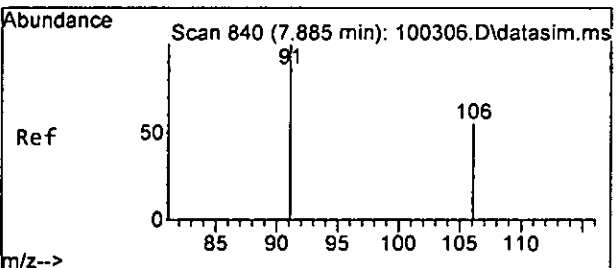
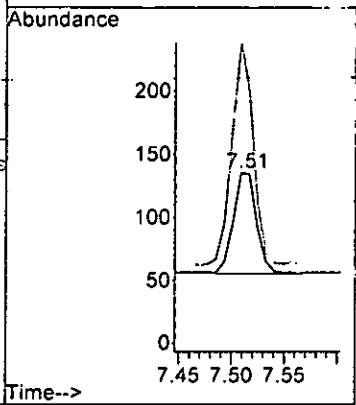
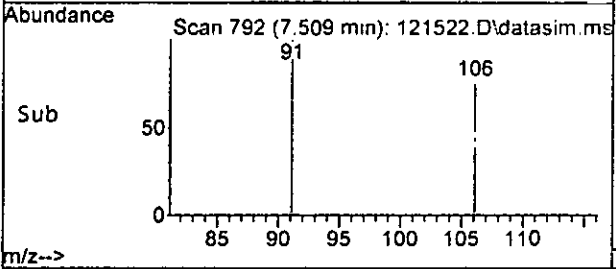
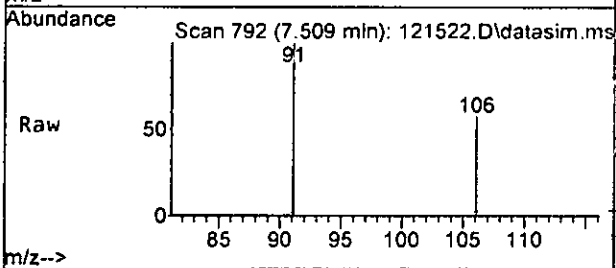
Tgt Ion	Resp	Lower	Upper
91	100		
106	25.5	0.0	58.3





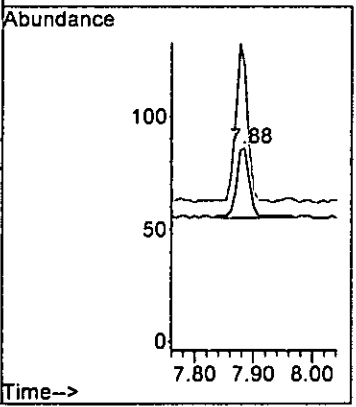
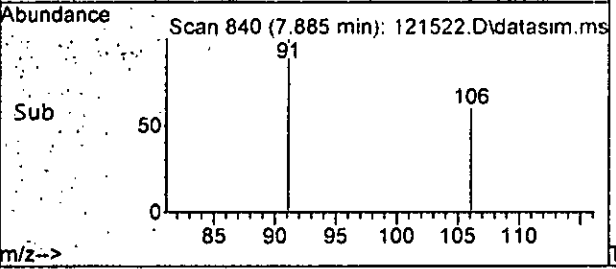
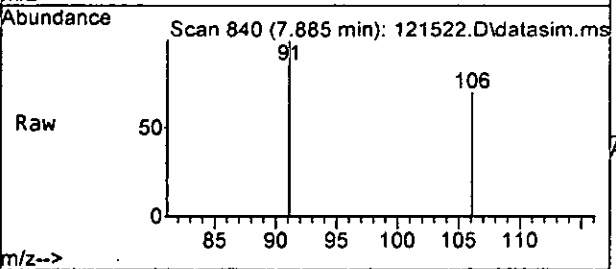
#51  
 m,p-Xylene  
 Concen: 0.052 ppb  
 RT: 7.51 min Scan# 792  
 Delta R.T. -0.000 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

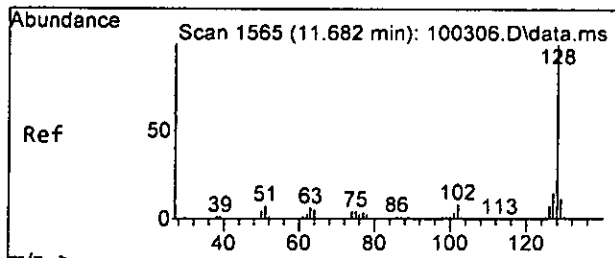
Tgt Ion:106 Resp: 123  
 Ion Ratio Lower Upper  
 106 100  
 91 218.8 147.7 207.7#



#52  
 o-Xylene  
 Concen: 0.022 ppb  
 RT: 7.88 min Scan# 840  
 Delta R.T. -0.000 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

Tgt Ion:106 Resp: 51  
 Ion Ratio Lower Upper  
 106 100  
 91 190.3 160.3 220.3

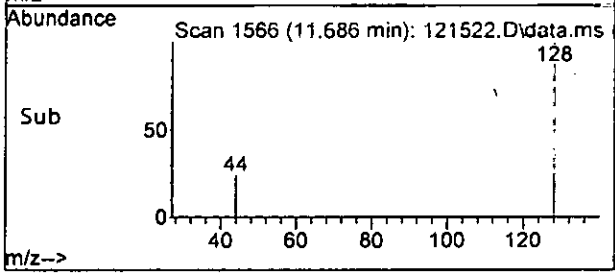
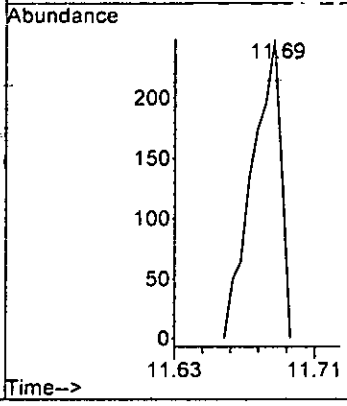
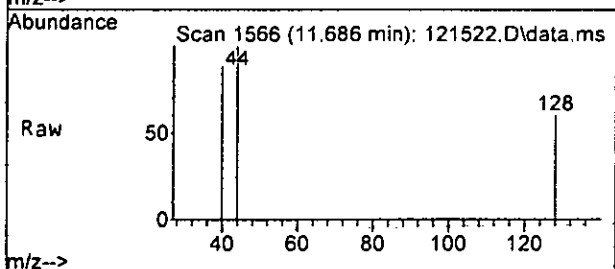




#75  
 Naphthalene  
 Concen: 0.049 ppb  
 RT: 11.69 min Scan# 1566  
 Delta R.T. 0.005 min  
 Lab File: 121522.D  
 Acq: 15 Dec 2022 01:39 pm

Tgt Ion: 128 Resp: 268

Ion	Ratio	Lower	Upper
128	100		
129	0.0	0.0	41.9
127	0.0	0.0	43.8



Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121522.D  
 Acq On : 15 Dec 2022 01:39 pm  
 Operator : LM  
 Sample : 212113-05 rr  
 Misc : water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 15 13:53:57 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Fluorobenzene	4.63	96	49698	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	39006	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21028	10.000	ppb	0.00	
<b>System Monitoring Compounds</b>							
3) Dibromofluoromethane	4.08	113	12782	9.748	ppb	0.00	
Spiked Amount	10.000	Range 50 - 150	Recovery	=	97.50%		
30) 1,2-Dichloroethane-d4	4.36	102	2944	9.819	ppb	0.00	
Spiked Amount	10.000	Range 78 - 126	Recovery	=	98.20%		
35) Toluene-d8	5.98	98	45273	9.488	ppb	0.00	
Spiked Amount	10.000	Range 84 - 115	Recovery	=	94.90%		
57) 4-Bromofluorobenzene	8.38	95	17676	9.956	ppb	0.00	
Spiked Amount	10.000	Range 72 - 130	Recovery	=	99.60%		
<b>Target Compounds</b>							
2) Ethanol	0.00		0	N.D.			Qvalue
4) Dichlorodifluoromethane	0.00		0	N.D.			
5) Chloromethane	1.23	50	1501	N.D.			
6] Vinyl chloride	1.30	62	104m	0.029	ppb		
7) Bromomethane	0.00		0	N.D.	d		
8) Chloroethane	0.00		0	N.D.			
9) Trichlorofluoromethane	0.00		0	N.D.			
10) 2-Propanol	0.00		0	N.D.			
11) Acetone	2.28	58	256	1.384	ppb	#	74
12) 1,1-Dichloroethene	0.00		0	N.D.			
13) Hexane	0.00		0	N.D.			
14) Methylene chloride	2.61	84	3943	2.949	ppb		93
15) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
16) Methyl t-butyl ether (...)	0.00		0	N.D.	d		
17] trans-1,2-Dichloroethene	2.83	96	54	0.040	ppb		92
18) Diisopropyl ether (DIPE)	0.00		0	N.D.			
19) 1,1-Dichloroethane	0.00		0	N.D.			
20) Ethyl t-butyl ether (E...)	0.00		0	N.D.			
21) 2,2-Dichloropropane	0.00		0	N.D.			
22] cis-1,2-Dichloroethene	3.67	96	68	0.048	ppb		94
23) Chloroform	0.00		0	N.D.			
24) 2-Butanone (MEK)	3.71	43	121	0.133	ppb		63
25) t-Amyl methyl ether (T...)	0.00		0	N.D.			
26] 1,2-Dichloroethane (EDC)	4.42	62	50	0.024	ppb		90
27) 1,1,1-Trichloroethane	0.00		0	N.D.			
28) 1,1-Dichloropropene	0.00		0	N.D.			
29) Carbon tetrachloride	0.00		0	N.D.			
31] Benzene	4.39	78	53	0.011	ppb		94
32] Trichloroethene	4.93	95	272	0.173	ppb		98
33) 1,2-Dichloropropane	0.00		0	N.D.			
34) Bromodichloromethane	0.00		0	N.D.			
36) Dibromomethane	0.00		0	N.D.			

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121522.D  
 Acq On : 15 Dec 2022 01:39 pm  
 Operator : LM  
 Sample : 212113-05 rr  
 Misc : water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS11

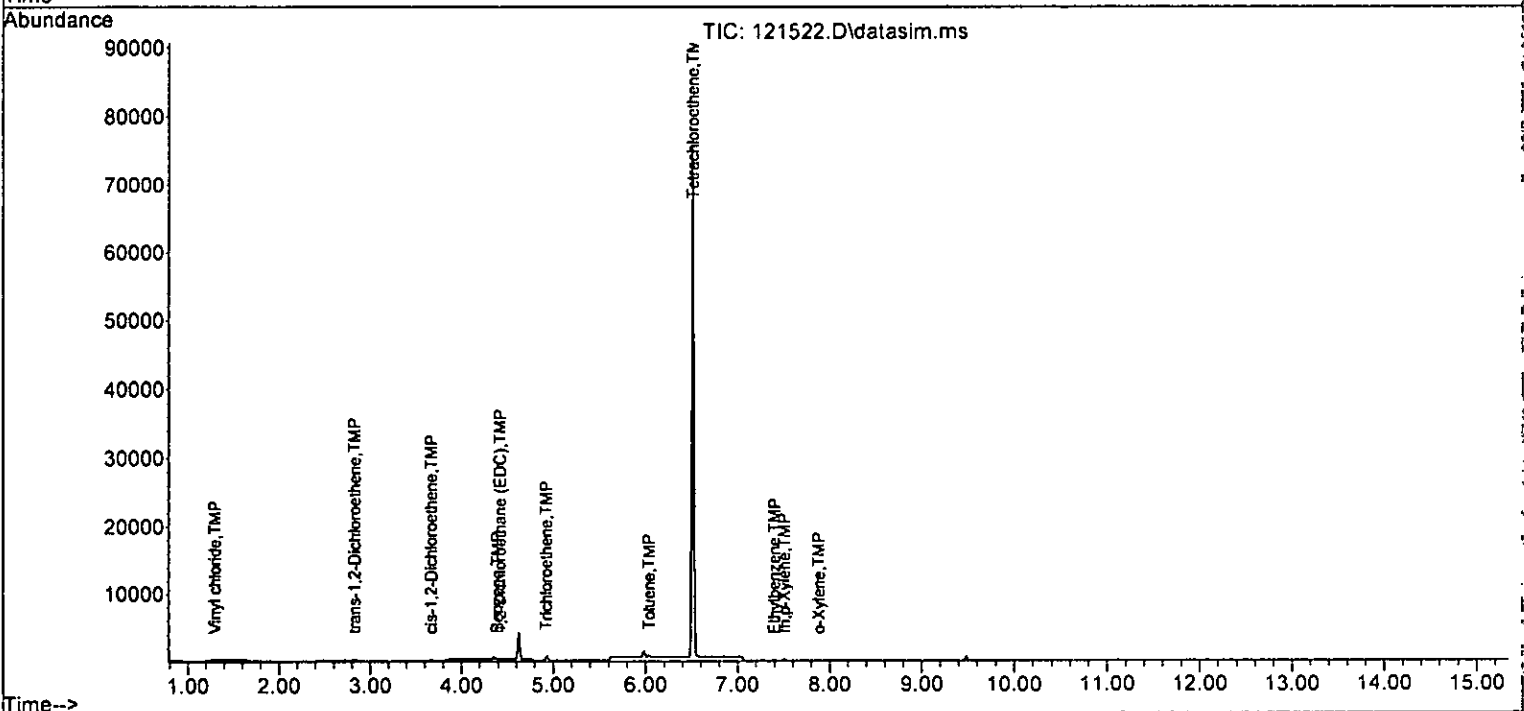
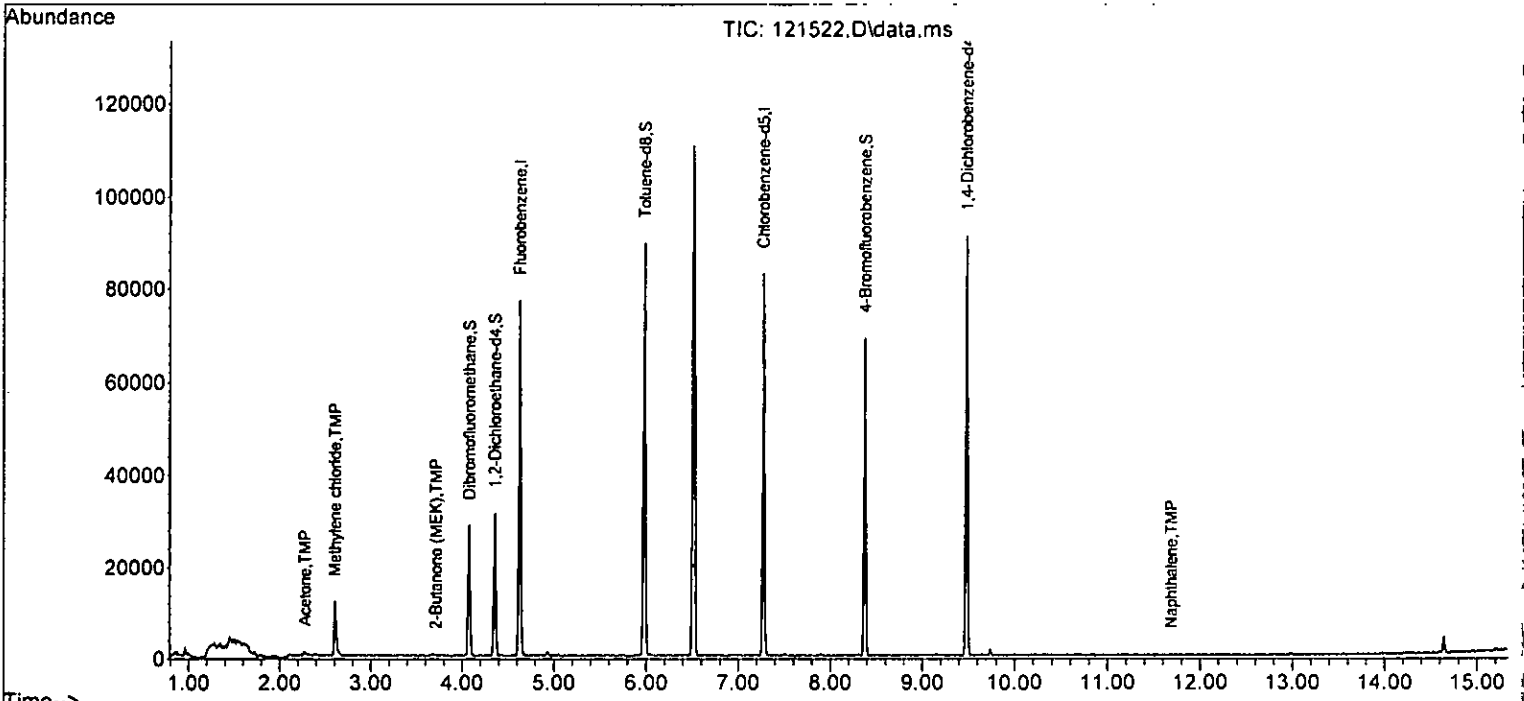
Quant Time: Dec 15 13:53:57 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0		N.D.	
38) cis-1,3-Dichloropropene	0.00		0		N.D.	
40] Toluene	6.04	92	136	0.041	ppb	86
41) trans-1,3-Dichloropropene	0.00		0		N.D.	
42) 1,1,2-Trichloroethane	0.00		0		N.D. d	
43) 2-Hexanone	0.00		0		N.D.	
44) 1,3-Dichloropropane	0.00		0		N.D.	
45] Tetrachloroethene	6.51	164	25197	18.878	ppb	99
46) Dibromochloromethane	0.00		0		N.D.	
47) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
48) Chlorobenzene	0.00		0		N.D.	
49] Ethylbenzene	7.40	91	129	0.021	ppb	95
50) 1,1,1,2-Tetrachloroethane	0.00		0		N.D.	
51] m,p-Xylene	7.51	106	123	0.052	ppb #	71
52] o-Xylene	7.88	106	51	0.022	ppb	100
53) Styrene	0.00		0		N.D.	
54) Isopropylbenzene	0.00		0		N.D.	
55) Bromoform	0.00		0		N.D.	
58) n-Propylbenzene	0.00		0		N.D.	
59) Bromobenzene	0.00		0		N.D.	
60) 1,3,5-Trimethylbenzene	0.00		0		N.D.	
61) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
62) 1,2,3-Trichloropropane	0.00		0		N.D. d	
63) 2-Chlorotoluene	0.00		0		N.D.	
64) 4-Chlorotoluene	0.00		0		N.D.	
65) tert-Butylbenzene	0.00		0		N.D.	
66) 1,2,4-Trimethylbenzene	9.15	105	175		N.D.	
67) sec-Butylbenzene	9.15	105	175		N.D.	
68) p-Isopropyltoluene	0.00		0		N.D.	
69) 1,3-Dichlorobenzene	9.50	146	117		N.D.	
70) 1,4-Dichlorobenzene	9.50	146	117		N.D.	
71) 1,2-Dichlorobenzene	0.00		0		N.D.	
72) 1,2-Dibromo-3-chloropr...	0.00		0		N.D.	
73) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
74) Hexachlorobutadiene	0.00		0		N.D.	
75) Naphthalene	11.69	128	268	0.049	ppb	67
76) 1,2,3-Trichlorobenzene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Y:\Proc\_GCMS11\12-15-22\  
 Data File : 121522.D  
 Acq On : 15 Dec 2022 01:39 pm  
 Operator : LM  
 Sample : 212113-05 rr  
 Misc : water  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS11

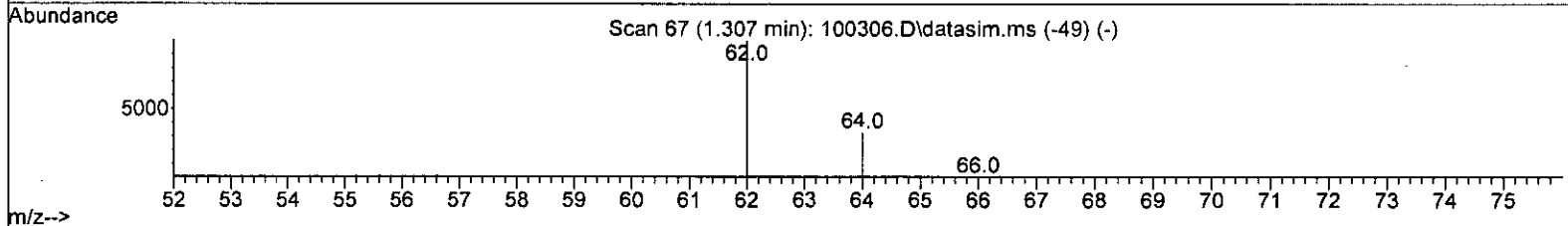
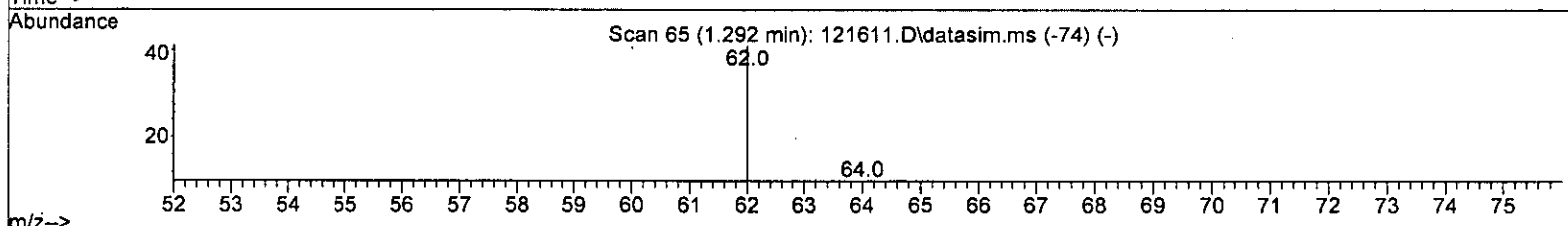
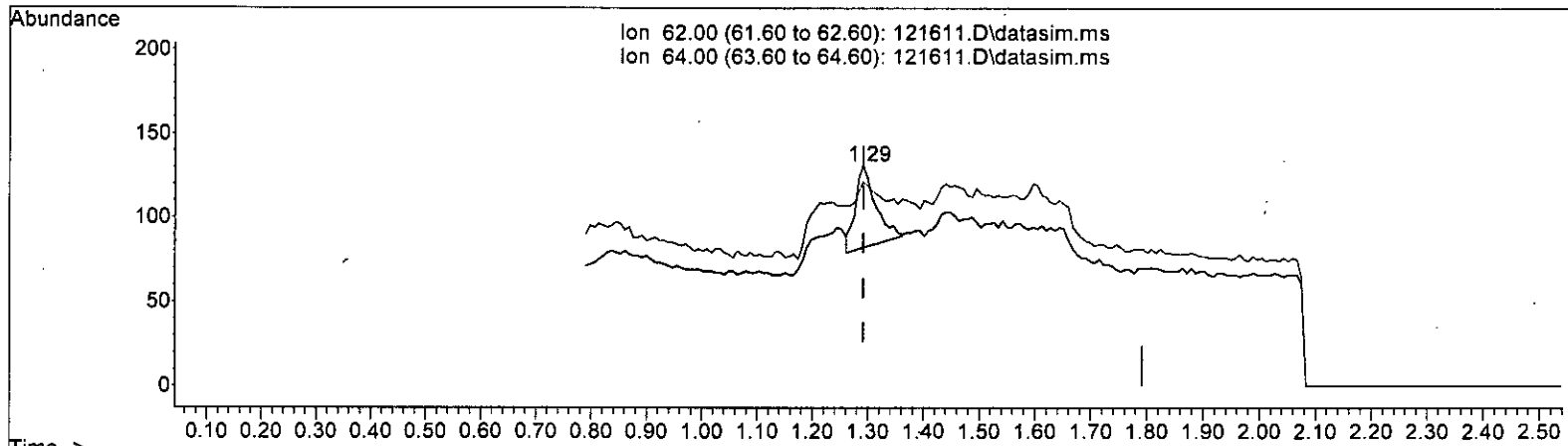
Quant Time: Dec 15 13:53:57 2022  
 Quant Method : Y:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



Quantitation Report (Qedit)

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 12:44 pm  
 Operator : LM  
 Sample : 212113-02 rr  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:59:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121611.D\data.ms

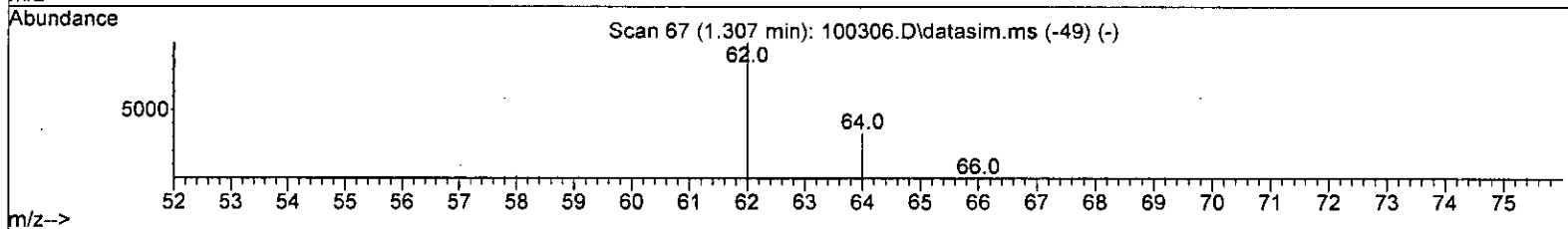
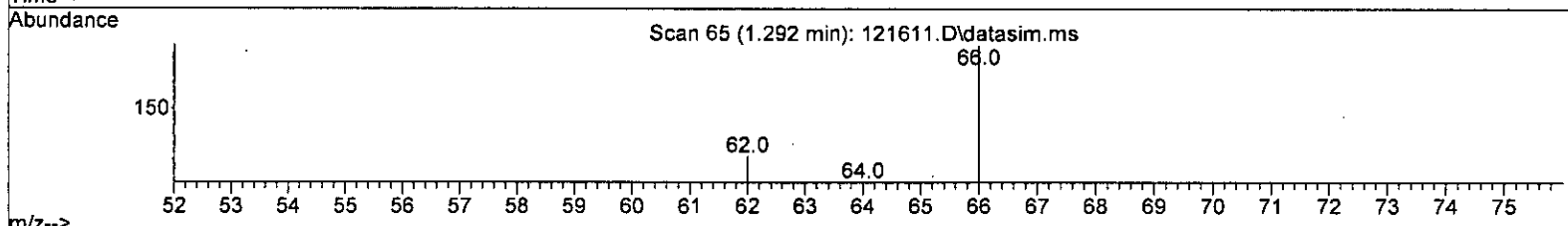
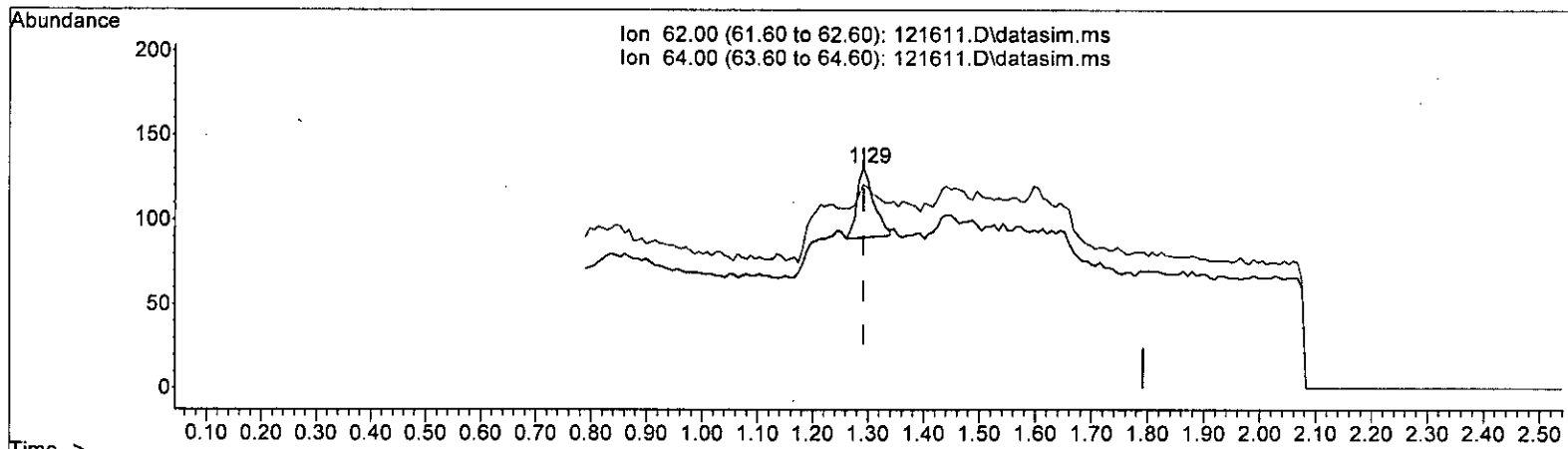
(6) Vinyl chloride (TMP)			
1.292min (-0.000) 0.035 ppb			
response	126		
Ion	Exp%	Act%	
62.00	100.00	100.00	
64.00	28.80	33.33	
0.00	0.00	0.00	
0.00	0.00	0.00	



Quantitation Report (Qedit)

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 12:44 pm  
 Operator : LM  
 Sample : 212113-02 rr  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:59:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



TIC: 121611.D\data.ms

(6) Vinyl chloride (TMP)

1.292min (-0.000) 0.024 ppb m

response	86
Ion	Exp% Act%
62.00	100.00 100.00
64.00	28.80 92.37#
0.00	0.00 0.00
0.00	0.00 0.00

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 12:44 pm  
 Operator : LM  
 Sample : 212113-02 rr  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

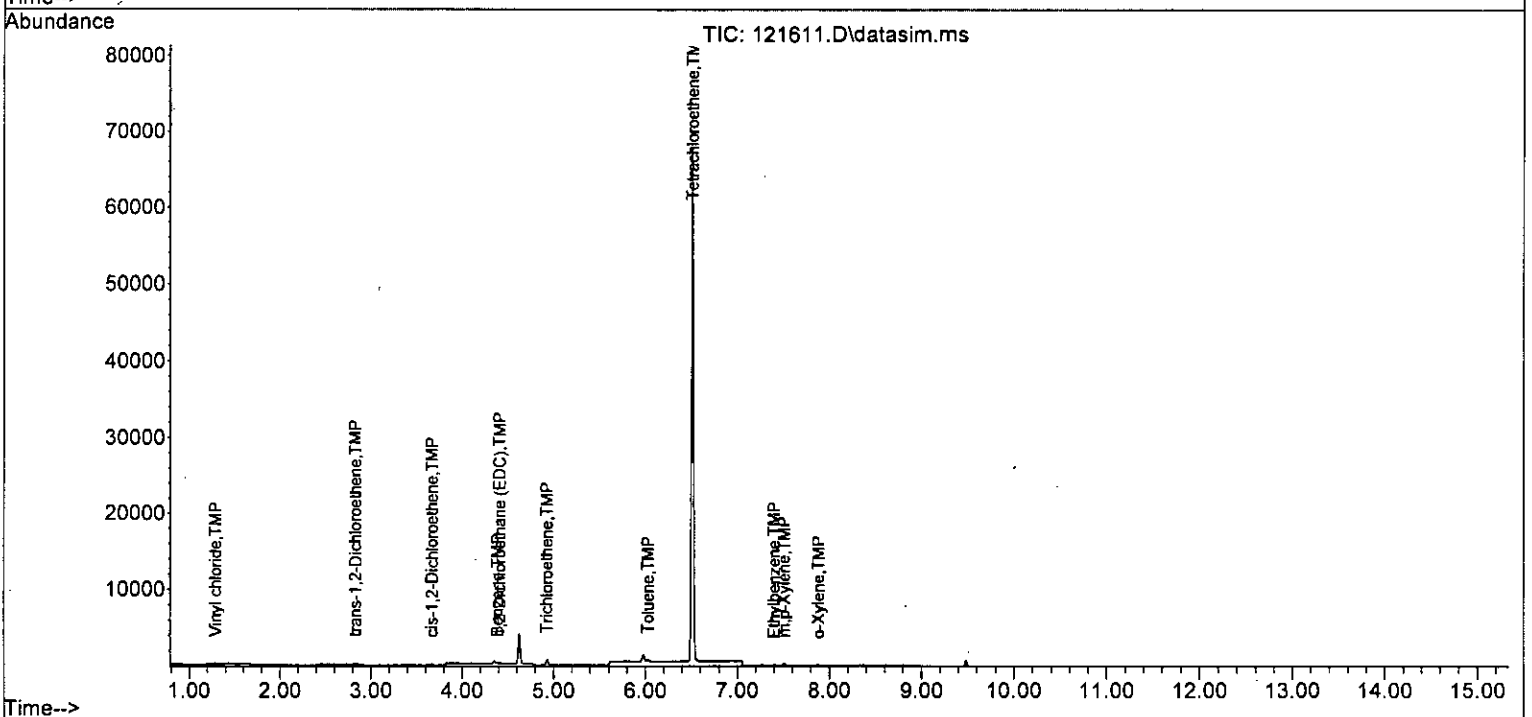
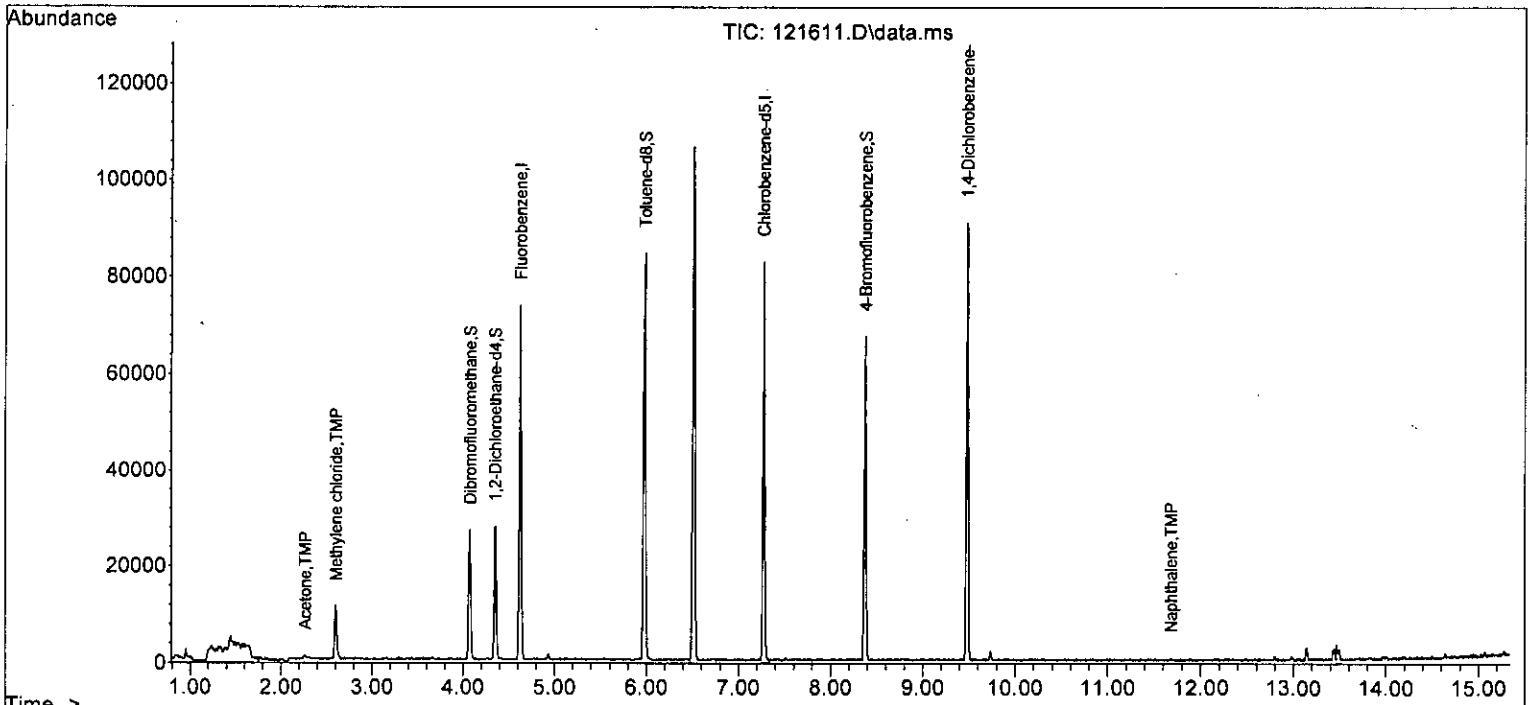
Quant Time: Dec 16 12:59:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

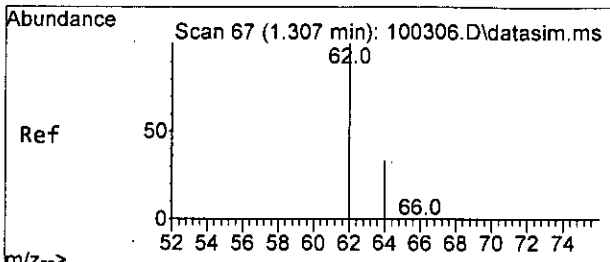
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Fluorobenzene	4.63	96	49133	10.000	ppb	0.00	
39) Chlorobenzene-d5	7.27	117	38108	10.000	ppb	0.00	
56) 1,4-Dichlorobenzene-d4	9.48	152	21490	10.000	ppb	0.00	
System Monitoring Compounds							
3) Dibromofluoromethane	4.08	113	13123	10.123	ppb	0.00	
Spiked Amount	10.000	Range	50 - 150	Recovery	=	101.20%	
30) 1,2-Dichloroethane-d4	4.35	102	3039	10.252	ppb	0.00	
Spiked Amount	10.000	Range	78 - 126	Recovery	=	102.50%	
35) Toluene-d8	5.98	98	46741	9.908	ppb	0.00	
Spiked Amount	10.000	Range	84 - 115	Recovery	=	99.10%	
57) 4-Bromofluorobenzene	8.38	95	17036	9.390	ppb	0.00	
Spiked Amount	10.000	Range	72 - 130	Recovery	=	93.90%	
Target Compounds							
							Qvalue
6] Vinyl chloride	1.29	62	86m	0.024	ppb		
11) Acetone	2.27	58	214	1.170	ppb	#	20
14) Methylene chloride	2.61	84	4068	3.078	ppb		91
17] trans-1,2-Dichloroethene	2.83	96	53	0.040	ppb		85
22] cis-1,2-Dichloroethene	3.67	96	71	0.050	ppb		84
26] 1,2-Dichloroethane (EDC)	4.41	62	50	0.025	ppb		94
31] Benzene	4.38	78	53	0.011	ppb		91
32] Trichloroethene	4.93	95	278	0.179	ppb		92
40] Toluene	6.03	92	136	0.042	ppb		91
45] Tetrachloroethene	6.51	164	22678	17.391	ppb		99
49] Ethylbenzene	7.40	91	108	0.018	ppb		99
51] m,p-Xylene	7.51	106	118	0.051	ppb	#	74
52] o-Xylene	7.88	106	50	0.022	ppb		87
75) Naphthalene	11.68	128	274	0.049	ppb		67
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 12:44 pm  
 Operator : LM  
 Sample : 212113-02 rr  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:59:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080S22.M

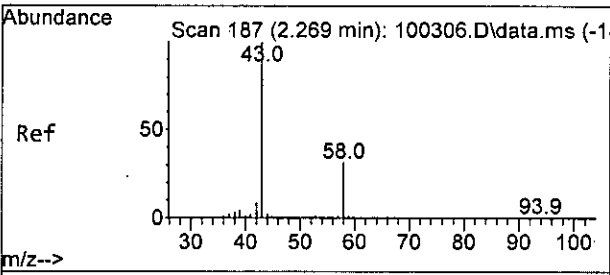
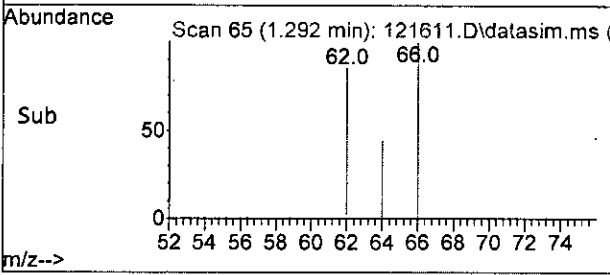
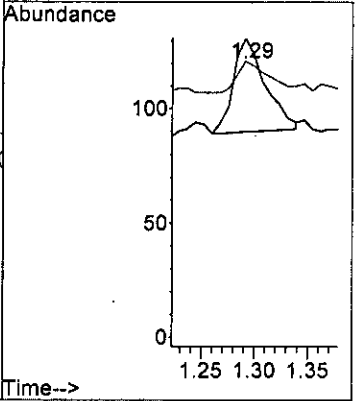
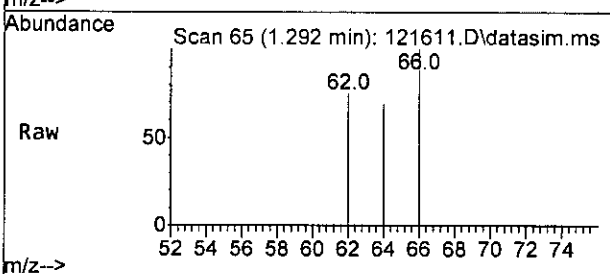




#6  
 Vinyl chloride  
 Concen: 0.024 ppb m  
 RT: 1.29 min Scan# 65  
 Delta R.T. -0.000 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 12:44 pm

Tgt Ion: 62 Resp: 86

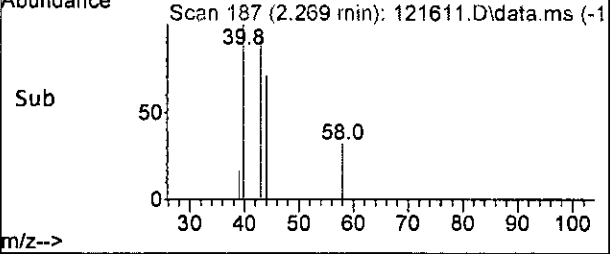
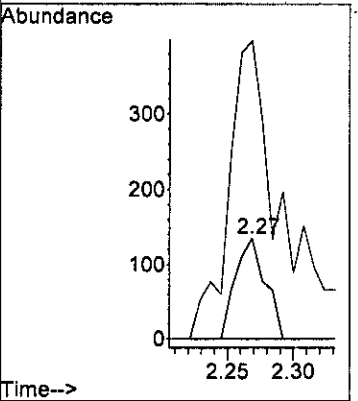
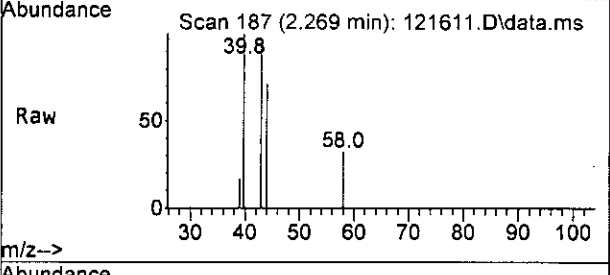
Ion	Ratio	Lower	Upper
62	100		
64	92.4	0.0	58.8#

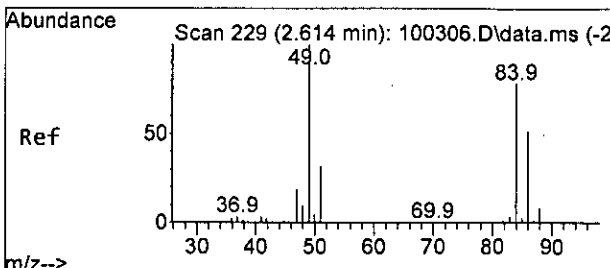


#11  
 Acetone  
 Concen: 1.170 ppb  
 RT: 2.27 min Scan# 187  
 Delta R.T. 0.008 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 12:44 pm

Tgt Ion: 58 Resp: 214

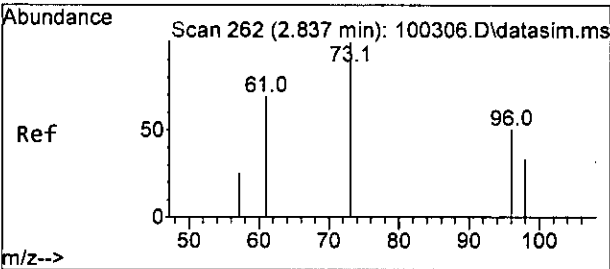
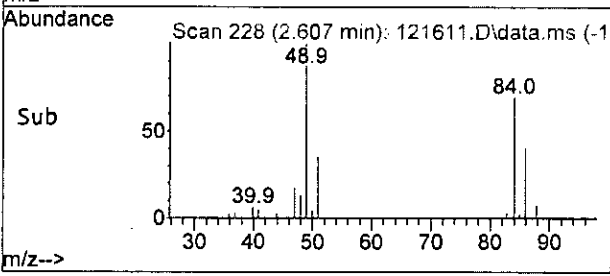
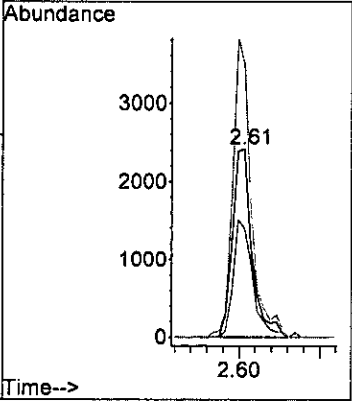
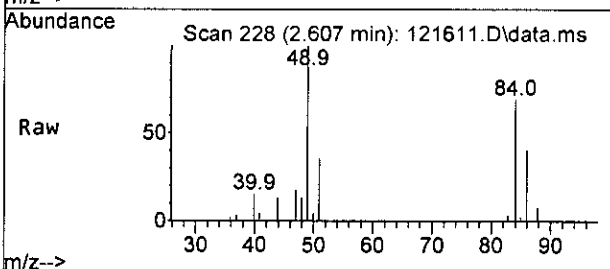
Ion	Ratio	Lower	Upper
58	100		
43	507.5	308.5	368.5#





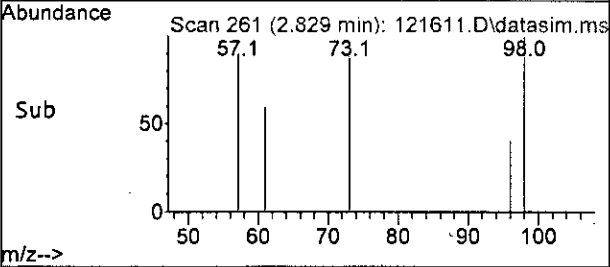
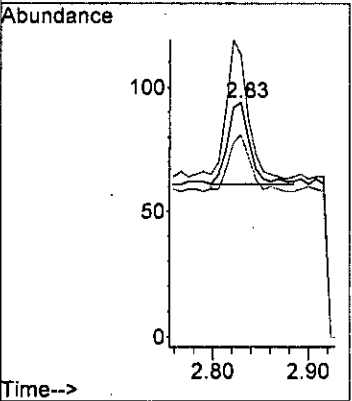
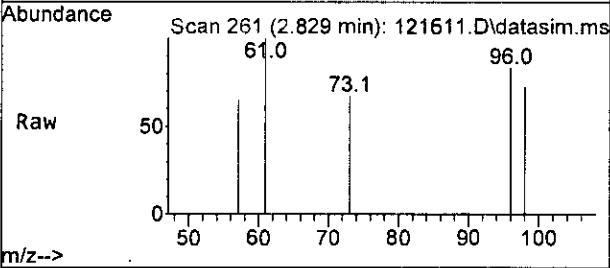
#14  
 Methylene chloride  
 Concen: 3.078 ppb  
 RT: 2.61 min Scan# 228  
 Delta R.T. 0.008 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 12:44 pm

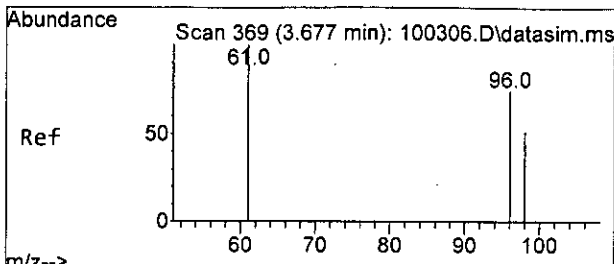
Tgt Ion	Resp	Lower	Upper
84	100		
86	57.9	30.4	90.4
49	142.4	127.9	187.9



#17  
 trans-1,2-Dichloroethene  
 Concen: 0.040 ppb  
 RT: 2.83 min Scan# 261  
 Delta R.T. 0.007 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 12:44 pm

Tgt Ion	Resp	Lower	Upper
96	100		
61	148.5	141.8	201.8
98	69.7	31.0	91.0

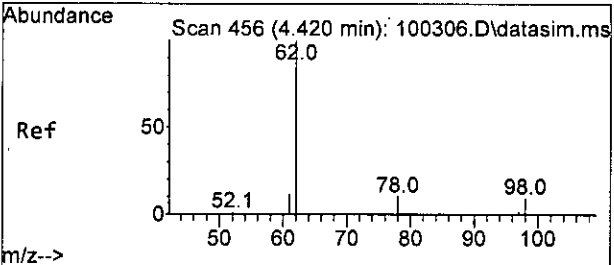
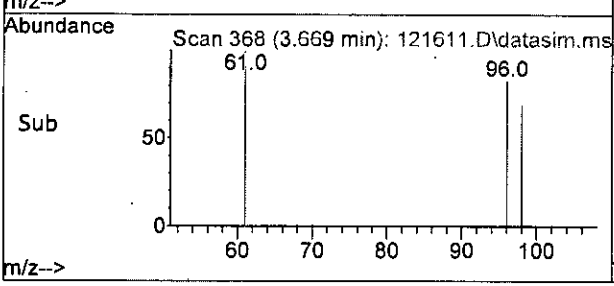
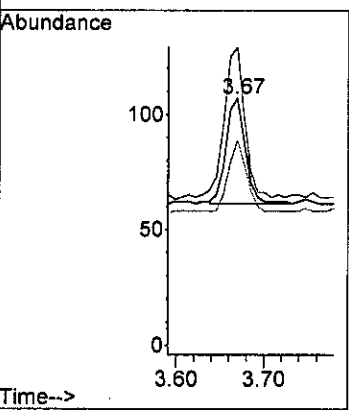
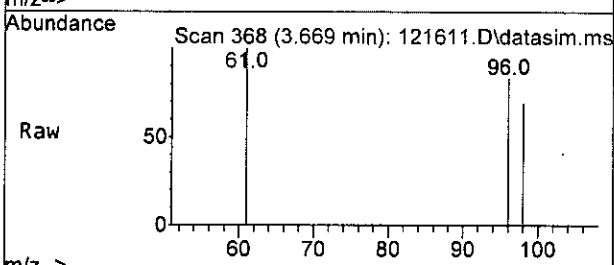




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.050 ppb  
 RT: 3.67 min Scan# 368  
 Delta R.T. -0.000 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 12:44 pm

Tgt Ion: 96 Resp: 71

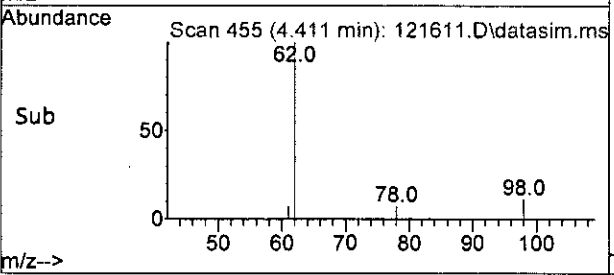
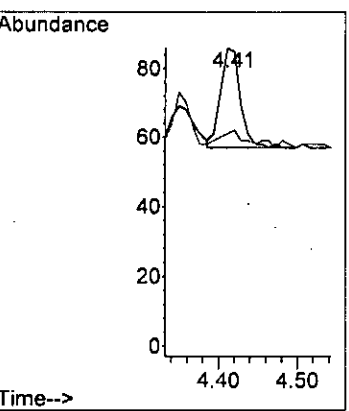
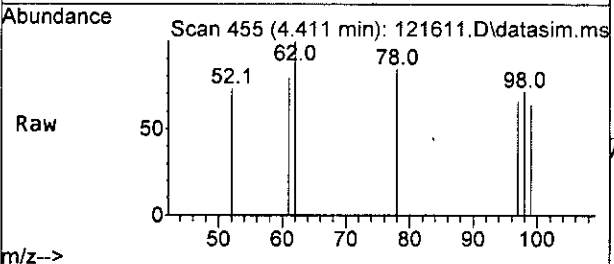
Ion	Ratio	Lower	Upper
96	100		
61	139.1	132.4	192.4
98	67.4	29.7	89.7

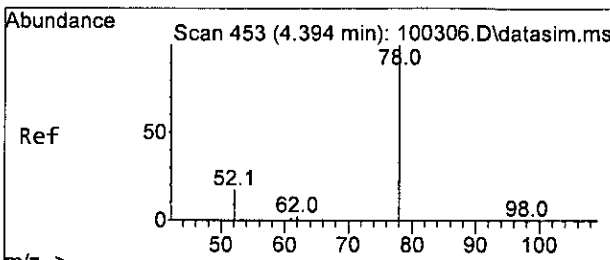


#26  
 1,2-Dichloroethane (EDC)  
 Concen: 0.025 ppb  
 RT: 4.41 min Scan# 455  
 Delta R.T. 0.000 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 12:44 pm

Tgt Ion: 62 Resp: 50

Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	38.2

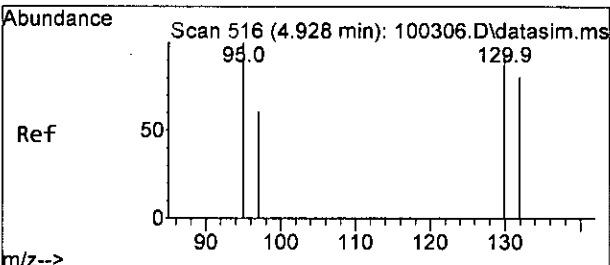
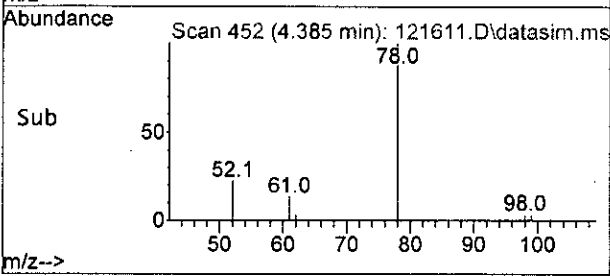
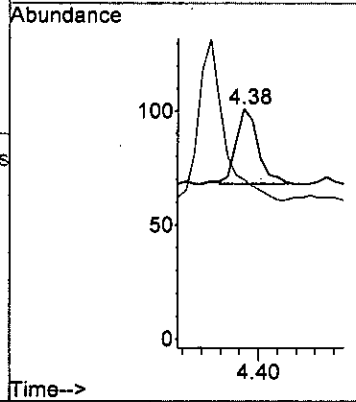
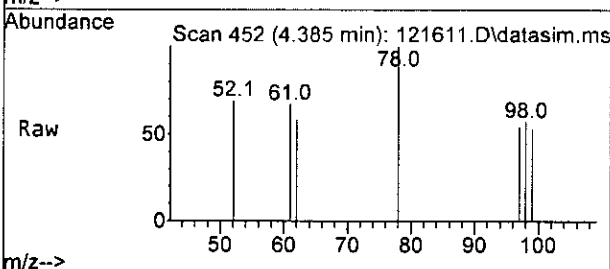




#31  
Benzene  
Concen: 0.011 ppb  
RT: 4.38 min Scan# 452  
Delta R.T. -0.000 min  
Lab File: 121611.D  
Acq: 16 Dec 2022 12:44 pm

Tgt Ion: 78 Resp: 53

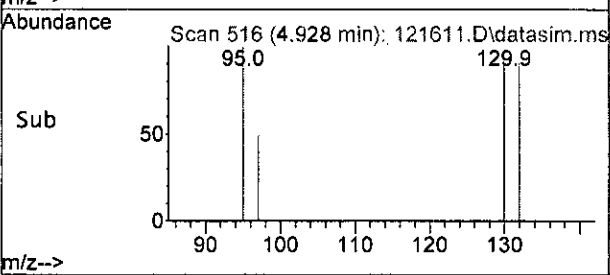
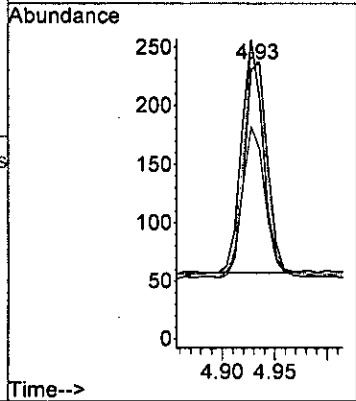
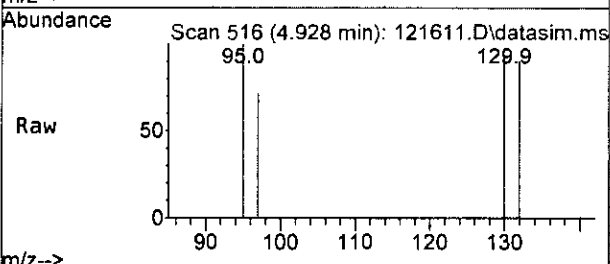
Ion	Ratio	Lower	Upper
78	100		
52	24.2	0.0	49.9

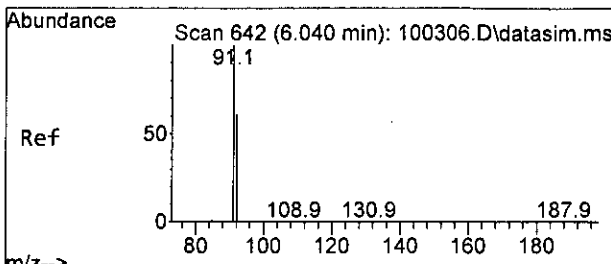


#32  
Trichloroethene  
Concen: 0.179 ppb  
RT: 4.93 min Scan# 516  
Delta R.T. -0.000 min  
Lab File: 121611.D  
Acq: 16 Dec 2022 12:44 pm

Tgt Ion: 95 Resp: 278

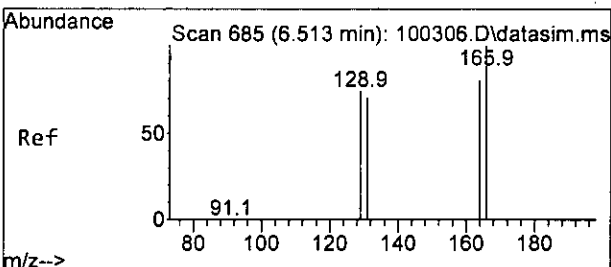
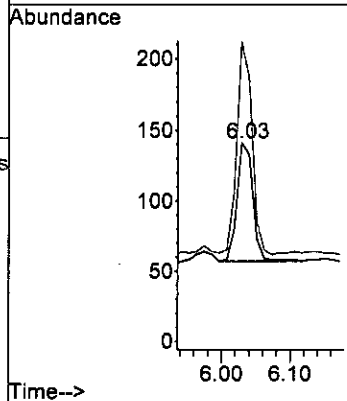
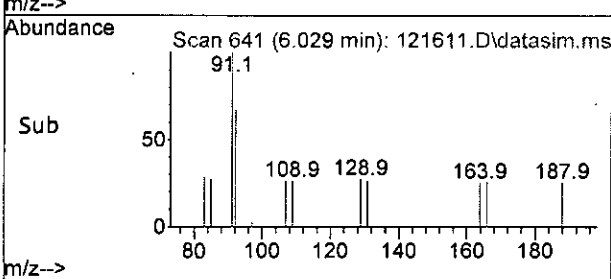
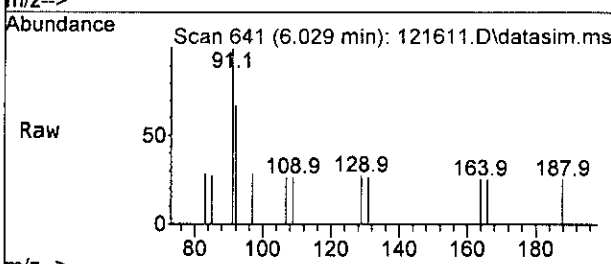
Ion	Ratio	Lower	Upper
95	100		
97	62.8	30.5	90.5
130	96.5	60.4	120.4
132	88.9	48.0	108.0





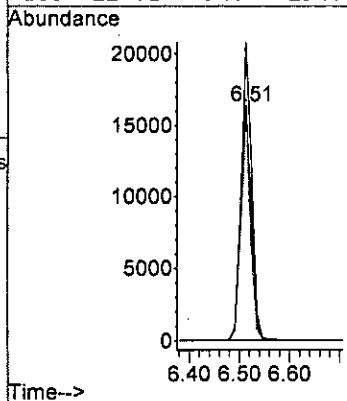
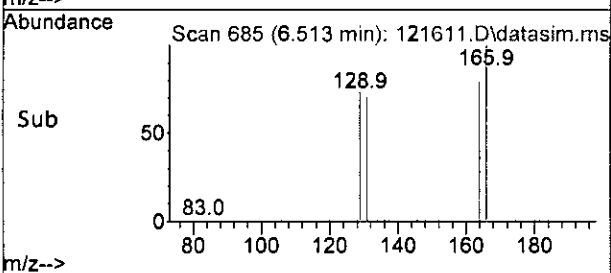
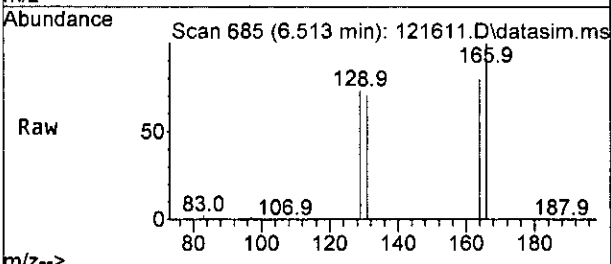
#40  
 Toluene  
 Concen: 0.042 ppb  
 RT: 6.03 min Scan# 641  
 Delta R.T. 0.000 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 12:44 pm

Tgt Ion: 92 Resp: 136  
 Ion Ratio Lower Upper  
 92 100  
 91 177.4 135.6 195.6

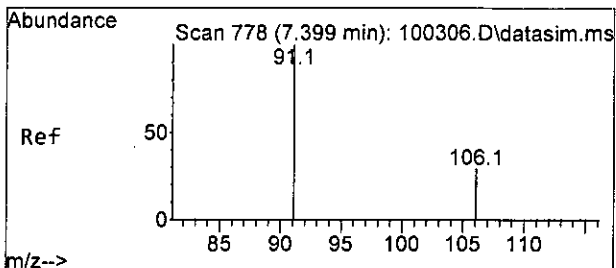


#45  
 Tetrachloroethene  
 Concen: 17.391 ppb  
 RT: 6.51 min Scan# 685  
 Delta R.T. -0.000 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 12:44 pm

Tgt Ion: 164 Resp: 22678  
 Ion Ratio Lower Upper  
 164 100  
 129 92.2 62.6 122.6  
 131 89.4 58.6 118.6  
 166 127.1 94.4 154.4

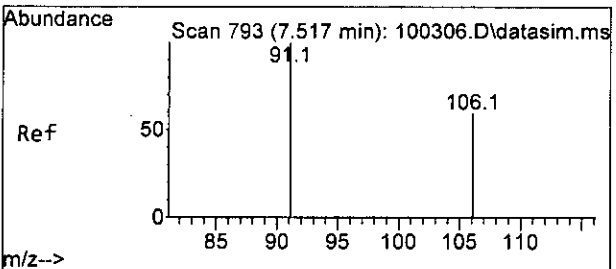
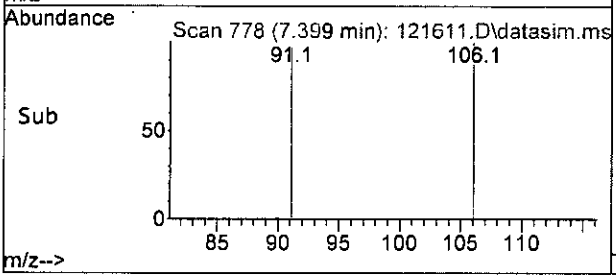
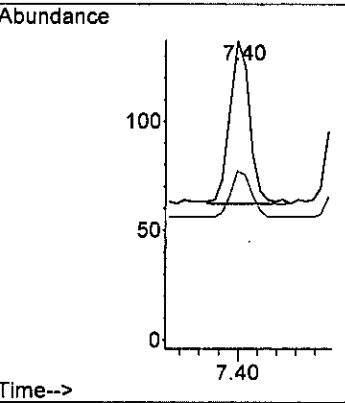
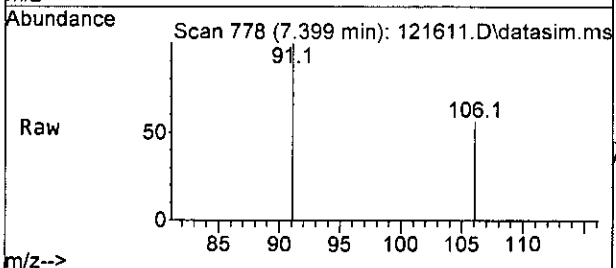






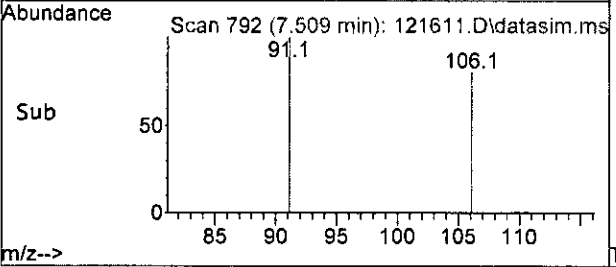
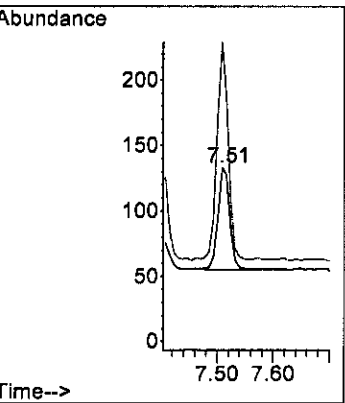
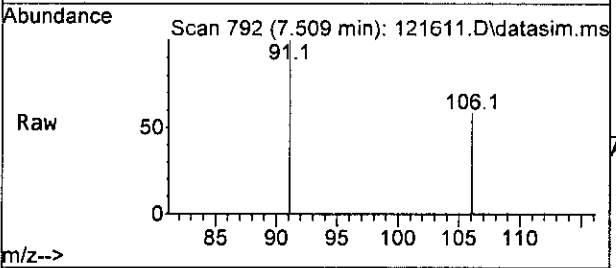
#49  
 Ethylbenzene  
 Concen: 0.018 ppb  
 RT: 7.40 min Scan# 778  
 Delta R.T. 0.000 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 12:44 pm

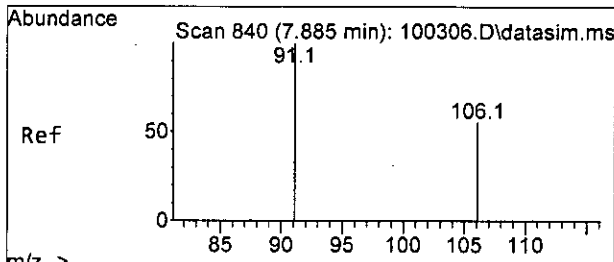
Tgt Ion: 91 Resp: 108  
 Ion Ratio Lower Upper  
 91 100  
 106 28.0 0.0 58.3



#51  
 m,p-Xylene  
 Concen: 0.051 ppb  
 RT: 7.51 min Scan# 792  
 Delta R.T. -0.000 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 12:44 pm

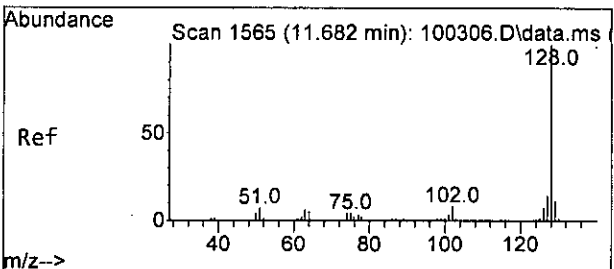
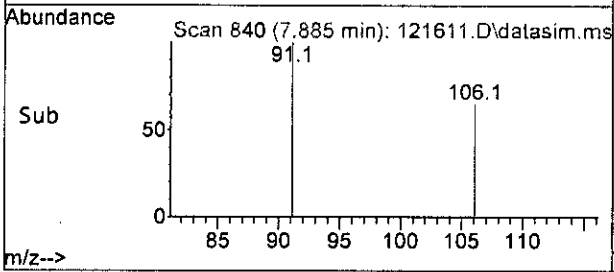
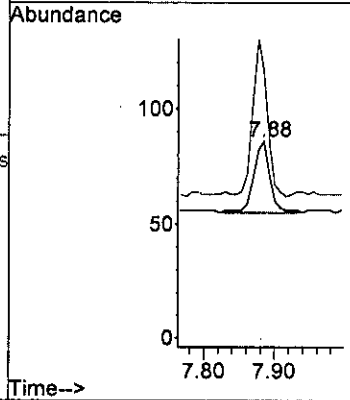
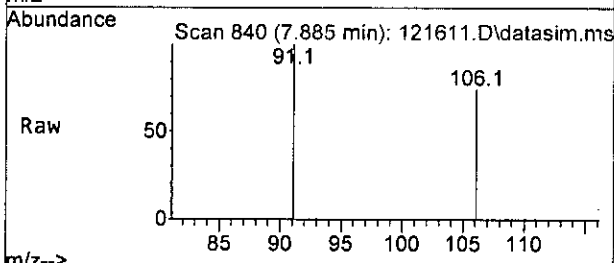
Tgt Ion: 106 Resp: 118  
 Ion Ratio Lower Upper  
 106 100  
 91 214.1 147.7 207.7#





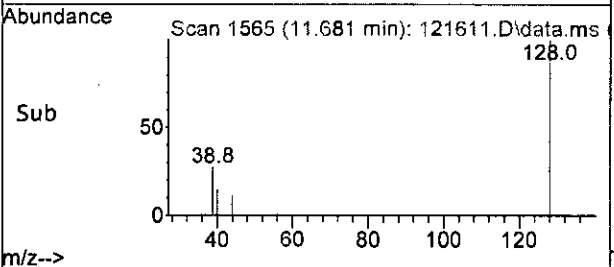
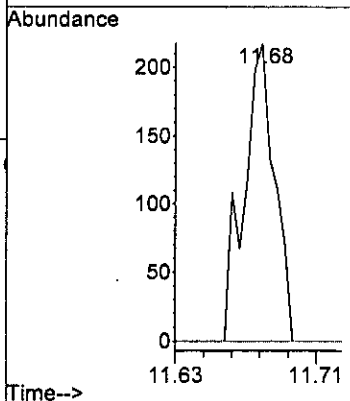
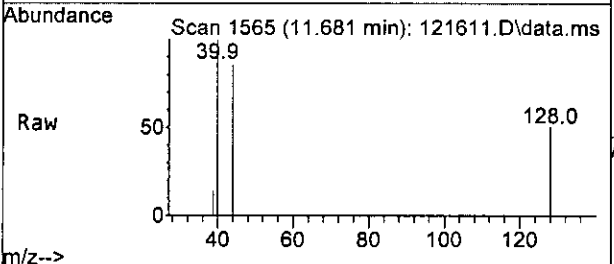
#52  
 o-Xylene  
 Concen: 0.022 ppb  
 RT: 7.88 min Scan# 840  
 Delta R.T. -0.000 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 12:44 pm

Tgt Ion: 106 Resp: 50  
 Ion Ratio Lower Upper  
 106 100  
 91 171.0 160.3 220.3



#75  
 Naphthalene  
 Concen: 0.049 ppb  
 RT: 11.68 min Scan# 1565  
 Delta R.T. 0.000 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 12:44 pm

Tgt Ion: 128 Resp: 274  
 Ion Ratio Lower Upper  
 128 100  
 129 0.0 0.0 41.9  
 127 0.0 0.0 43.8



Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 12:44 pm  
 Operator : LM  
 Sample : 212113-02 rr  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:59:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Fluorobenzene	4.63	96	49133	10.000	ppb	0.00
39) Chlorobenzene-d5	7.27	117	38108	10.000	ppb	0.00
56) 1,4-Dichlorobenzene-d4	9.48	152	21490	10.000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane	4.08	113	13123	10.123	ppb	0.00
Spiked Amount	10.000	Range 50 - 150	Recovery =	101.20%		
30) 1,2-Dichloroethane-d4	4.35	102	3039	10.252	ppb	0.00
Spiked Amount	10.000	Range 78 - 126	Recovery =	102.50%		
35) Toluene-d8	5.98	98	46741	9.908	ppb	0.00
Spiked Amount	10.000	Range 84 - 115	Recovery =	99.10%		
57) 4-Bromofluorobenzene	8.38	95	17036	9.390	ppb	0.00
Spiked Amount	10.000	Range 72 - 130	Recovery =	93.90%		
Target Compounds						
						Qvalue
2) Ethanol	0.00		0		N.D.	
4) Dichlorodifluoromethane	0.00		0		N.D.	
5) Chloromethane	1.23	50	1263		N.D.	
6] Vinyl chloride	1.29	62	86m	0.024	ppb	
7) Bromomethane	0.00		0		N.D.	
8) Chloroethane	0.00		0		N.D.	
9) Trichlorofluoromethane	0.00		0		N.D.	
10) 2-Propanol	0.00		0		N.D.	
11) Acetone	2.27	58	214	1.170	ppb	# 20
12) 1,1-Dichloroethene	0.00		0		N.D.	
13) Hexane	0.00		0		N.D.	
14) Methylene chloride	2.61	84	4068	3.078	ppb	91
15) t-Butyl alcohol (TBA)	0.00		0		N.D.	d
16) Methyl t-butyl ether (...)	0.00		0		N.D.	d
17] trans-1,2-Dichloroethene	2.83	96	53	0.040	ppb	85
18) Diisopropyl ether (DIPE)	0.00		0		N.D.	
19) 1,1-Dichloroethane	0.00		0		N.D.	
20) Ethyl t-butyl ether (E...)	0.00		0		N.D.	
21) 2,2-Dichloropropane	0.00		0		N.D.	
22] cis-1,2-Dichloroethene	3.67	96	71	0.050	ppb	84
23) Chloroform	0.00		0		N.D.	
24) 2-Butanone (MEK)	3.71	43	71		N.D.	
25) t-Amyl methyl ether (T...)	0.00		0		N.D.	
26] 1,2-Dichloroethane (EDC)	4.41	62	50	0.025	ppb	94
27) 1,1,1-Trichloroethane	0.00		0		N.D.	
28) 1,1-Dichloropropene	0.00		0		N.D.	
29) Carbon tetrachloride	0.00		0		N.D.	
31] Benzene	4.38	78	53	0.011	ppb	91
32] Trichloroethene	4.93	95	278	0.179	ppb	92
33) 1,2-Dichloropropane	0.00		0		N.D.	
34) Bromodichloromethane	0.00		0		N.D.	
36) Dibromomethane	0.00		0		N.D.	

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 12:44 pm  
 Operator : LM  
 Sample : 212113-02 rr  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

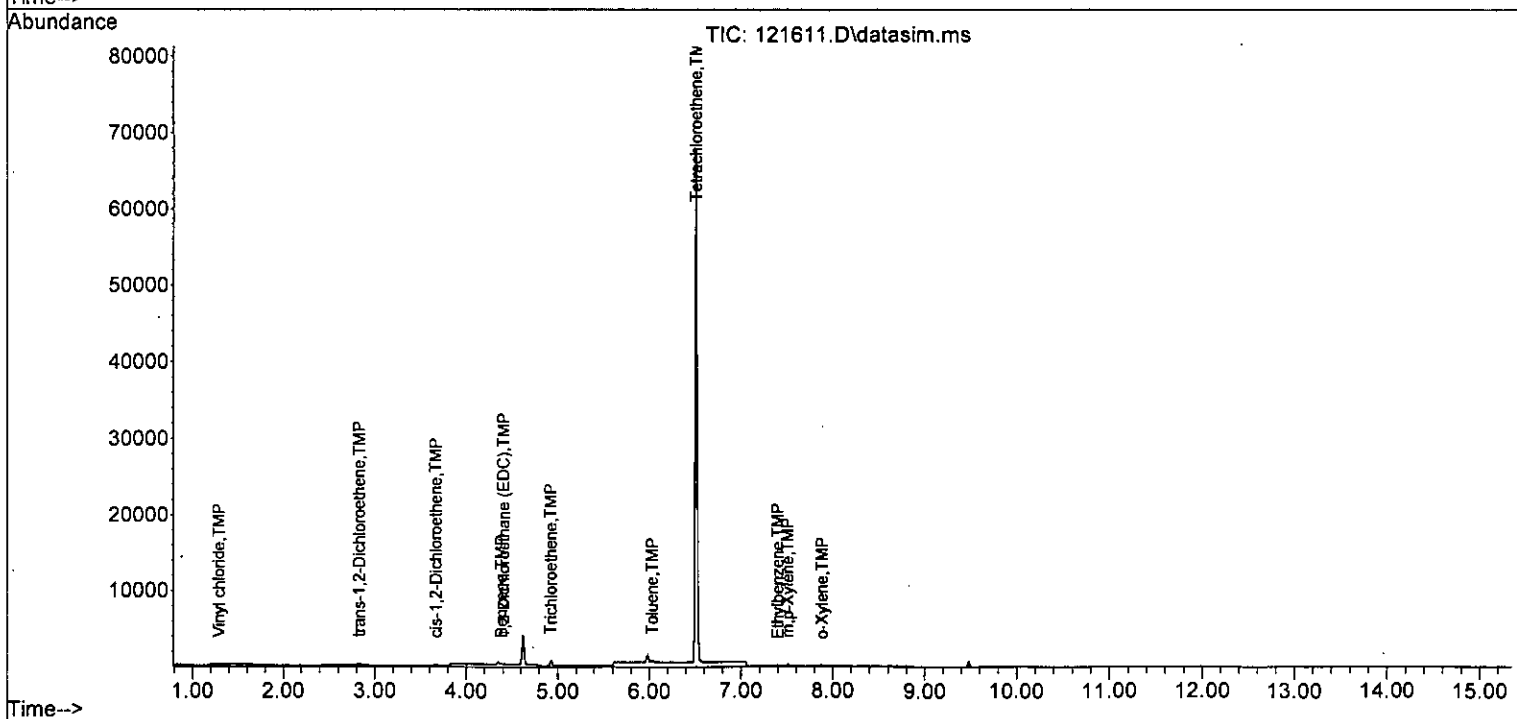
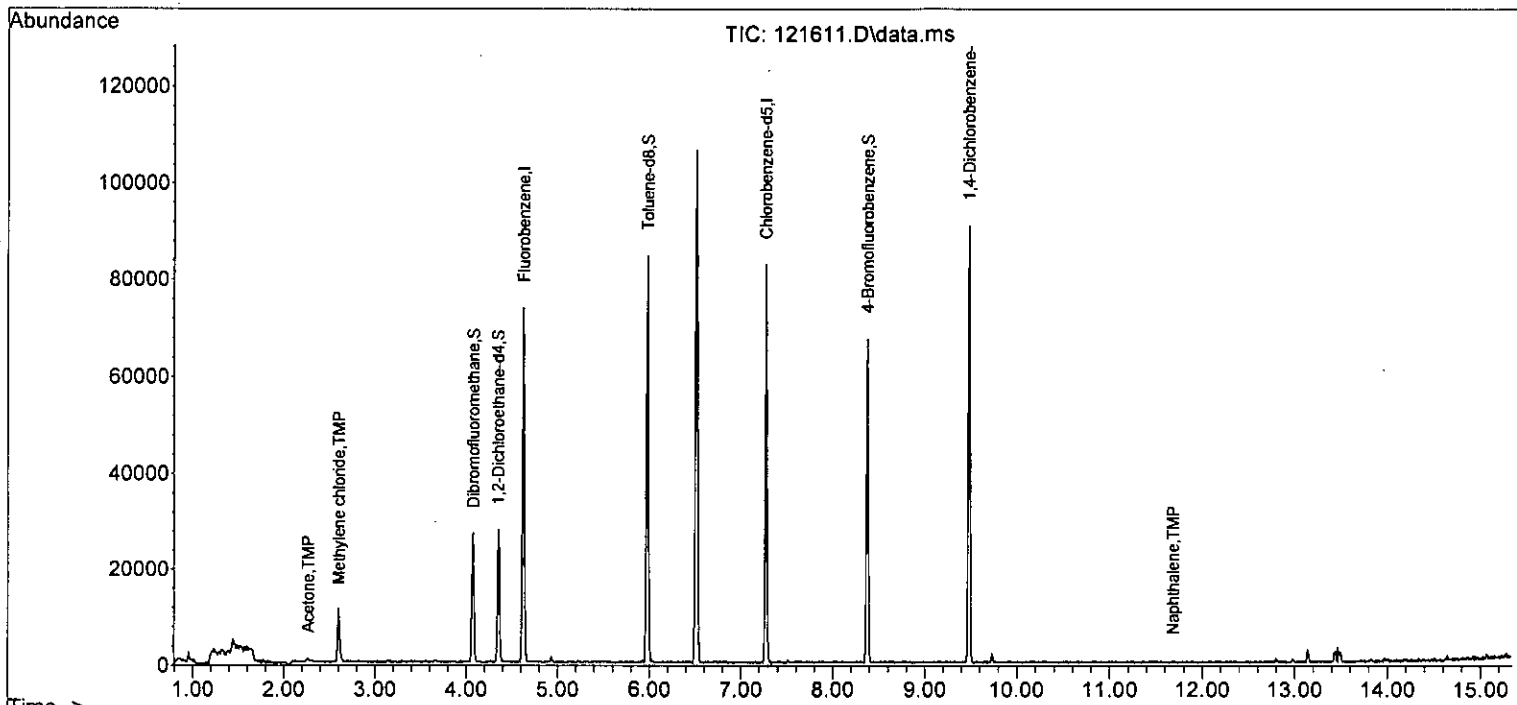
Quant Time: Dec 16 12:59:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 4-Methyl-2-pentanone	0.00		0	N.D.		
38) cis-1,3-Dichloropropene	0.00		0	N.D.		
40] Toluene	6.03	92	136	0.042	ppb	91
41) trans-1,3-Dichloropropene	0.00		0	N.D.		
42) 1,1,2-Trichloroethane	0.00		0	N.D.	d	
43) 2-Hexanone	6.73	43	81	N.D.		
44) 1,3-Dichloropropane	0.00		0	N.D.		
45] Tetrachloroethene	6.51	164	22678	17.391	ppb	99
46) Dibromochloromethane	0.00		0	N.D.		
47) 1,2-Dibromoethane (EDB)	0.00		0	N.D.		
48) Chlorobenzene	0.00		0	N.D.		
49] Ethylbenzene	7.40	91	108	0.018	ppb	99
50) 1,1,1,2-Tetrachloroethane	0.00		0	N.D.		
51] m,p-Xylene	7.51	106	118	0.051	ppb	# 74
52] o-Xylene	7.88	106	50	0.022	ppb	87
53) Styrene	0.00		0	N.D.		
54) Isopropylbenzene	0.00		0	N.D.		
55) Bromoform	0.00		0	N.D.		
58) n-Propylbenzene	8.63	91	102	N.D.		
59) Bromobenzene	0.00		0	N.D.		
60) 1,3,5-Trimethylbenzene	0.00		0	N.D.		
61) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.		
62) 1,2,3-Trichloropropane	0.00		0	N.D.	d	
63) 2-Chlorotoluene	8.63	91	102	N.D.		
64) 4-Chlorotoluene	8.63	91	102	N.D.		
65) tert-Butylbenzene	0.00		0	N.D.		
66) 1,2,4-Trimethylbenzene	9.16	105	167	N.D.		
67) sec-Butylbenzene	9.32	105	65	N.D.		
68) p-Isopropyltoluene	0.00		0	N.D.		
69) 1,3-Dichlorobenzene	0.00		0	N.D.		
70) 1,4-Dichlorobenzene	0.00		0	N.D.		
71) 1,2-Dichlorobenzene	0.00		0	N.D.		
72) 1,2-Dibromo-3-chloropr...	0.00		0	N.D.		
73) 1,2,4-Trichlorobenzene	0.00		0	N.D.		
74) Hexachlorobutadiene	0.00		0	N.D.		
75) Naphthalene	11.68	128	274	0.049	ppb	67
76) 1,2,3-Trichlorobenzene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\GCMS11\GCMS11\_Data\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 12:44 pm  
 Operator : LM  
 Sample : 212113-02 rr  
 Misc : water  
 ALS Vial : 4 Sample Multiplier: 1  
 InstName : GCMS11

Quant Time: Dec 16 12:59:51 2022  
 Quant Method : D:\Methods\Inst11\VB121222ms11.M  
 Quant Title : 8260 Purge & Trap Volatiles Dual Acquisition  
 QLast Update : Tue Dec 13 13:28:26 2022  
 Response via : Initial Calibration  
 DataAcq Meth:VM080522.M



F&B Project 212114

# Chain of Custody, Shipping & Receiving Documents, Sample Condition Checklist

**SAMPLE CHAIN OF CUSTODY**

12/07/22

26 212114

Report To JENNIFER MARTINEZ

Company Anchor Det

Address 1201 3rd Ave #2600

City, State, ZIP Seattle, WA, 98101

Phone 206 287 9130 Email LAB DATA ATTACH@ANCHORDET.COM

SAMPLERS (signature) SJS

PROJECT NAME & ADDRESS  
Carson Chambers

PO #  
212283-01-01

NOTES: SEE APP FOR PROJECT SPECIFIC DETAILS

INVOICE TO  
LAB DATA ATTACH@ANCHORDET.COM

Page # 1 of 1

TURNAROUND TIME  
Standard RUSH  
Rush charges authorized by:

SAMPLE DISPOSAL  
Default: Clean following final report delivery  
Hold (Fee may apply):

**SAMPLE INFORMATION**

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (Hg)	Field Initial Time (Hg)	Final Vac. (Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium	Notes
CC-FA-04-20221207	01	40703	05948	IA / SG	11-7-22	30	0905	5	1710			X			
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											

**ANALYSIS REQUESTED**

Friedman & Bruya, Inc.  
5300 4th Avenue South  
Seattle, WA 98108  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>STEPHEN SMITH</u>	<u>STEPHEN SMITH</u>	<u>Anchor Det</u>	<u>12-7-22</u>	<u>1755</u>
<u>FRISWART</u>	<u>FRISWART</u>	<u>FRISWART ADDRESS</u>	<u>12/07/22</u>	<u>1755</u>
Received by:				

NP

FORMS\COCC\COCCFO-15.DOC

Samples received at Anchor



SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 212114 CLIENT Anchor OEA INITIALS/ K 12/07/12  
DATE: \_\_\_\_\_

If custody seals are present on cooler, are they intact?  NA  YES  NO

Cooler/Sample temperature \_\_\_\_\_ 16 °C

Were samples received on ice/cold packs?  YES  NO

How did samples arrive?  Over the Counter  
 Picked up by F&BI  
 FedEx/UPS/GSO

Number of days samples have been sitting prior to receipt at laboratory 0 days

Is there a Chain-of-Custody\* (COC)?  YES  NO  
\*or other representative documents, letters, and/or shipping memos

Are the samples clearly identified? (explain "no" answer below)  YES  NO

Is the following information provided on the COC\* ? (explain "no" answer below)

Sample ID's	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	# of Containers	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Date Sampled	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Relinquished	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Time Sampled	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Requested analysis	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below)  YES  NO

Were appropriate sample containers used?  YES  NO  Unknown

If custody seals are present on samples, are they intact?  NA  YES  NO

Are samples requiring no headspace, headspace free?  NA  YES  NO

Air Samples: Were any additional canisters received?  NA  YES  NO

If Yes, number of unused 1L canisters \_\_\_\_\_  
number of unused 6L canisters 6

Explain "no" items from above (use the back if needed)

# Laboratory Worksheets

# TO-15 EXTRACTION WORKSHEET (AIR)

HT \_\_\_\_\_

Project #: 212114  
Client: ACQ  
QC Batch ID: 02-2958  
Samples checked against COC ✓

Date Received: 12/7/22  
Date Extracted: 12/13/22  
Date Analyzed: \_\_\_\_\_  
GCMS # 108, Seq. Date 1

<b>Sample Type:</b> <input type="checkbox"/> Soil Gas <input checked="" type="checkbox"/> Indoor Air <input type="checkbox"/> Other _____	<b>Requested Analytes:</b> <input type="checkbox"/> TO-15 Full List (sDF=3.3) <input type="checkbox"/> cVOCs (sDF=10) <input type="checkbox"/> APH (sDF=39) <input type="checkbox"/> BTEX (sDF=33) <input type="checkbox"/> Naphthalene (sDF=3.3) <input type="checkbox"/> EDB,EDC,Hex,MTBE (sDF=10) <input checked="" type="checkbox"/> Other <u>PCE daughters</u> sDF = Acceptable Dilution Factor For Soil Gas iDF = Acceptable Dilution Factor For Indoor Air	<b>Reporting Units:</b> <input checked="" type="checkbox"/> µg/m3 <input type="checkbox"/> Other _____ <input type="checkbox"/> ve's not Acceptable <input type="checkbox"/> Dilutions Not Acceptable for Non-Detects <input type="checkbox"/> Screen Samples First
--	--	--

Due Date: 12/21

Sample ID	Canister ID	Initial Vacuum (Pi)	Final Vacuum (Pf)	Initial Dilution Factor	Volume Injected (cc)	Final Dilution Factor	Observations
<u>01</u>	<u>46703</u>				<u>250</u>	<u>F5</u>	
<u>✓</u>	<u>12/13/22</u>						

Initials \_\_\_\_\_

	✓	Volume	Conc. (ppm)	Compound(s)	Lot #	Initials	Date
Solvent		NA	NA	NA			
Other							
Internal Standard(s)/ Surrogate(s)	✓	50 cc	50 ppbv	TO-15 IS/Surr Mix	<u>68-102</u>	<u>k</u>	<u>12/13</u>
Other							

Project Leader MS Initials: \_\_\_\_\_  
NOTES: \_\_\_\_\_

Calculated by R. J. 12/16/22 Reviewed by Y.A. 12/16/22

## BATCH ORGANIC EXTRACTION WORKSHEET

Date Extracted: 12-13-22 13:10 Technician: Bat

QA Batch: **O2-2958**

Matrix	Solvent	Analysis	
<input type="checkbox"/> Soil	<input type="checkbox"/> Methylene Chloride	<input type="checkbox"/> Diesel	<input type="checkbox"/> 8270 SIM <input type="checkbox"/> PCB
<input type="checkbox"/> Water	<input type="checkbox"/> Acetone	<input type="checkbox"/> Gas/BTEX	<input type="checkbox"/> 8270 <input type="checkbox"/> Organic Lead
<input type="checkbox"/> Product	<input type="checkbox"/> Methanol	<input type="checkbox"/> HClD	<input type="checkbox"/> 8260 <input type="checkbox"/> Methamphetamine
<input type="checkbox"/> Wipe	<input type="checkbox"/> Hexane		<input type="checkbox"/> Other <u>To15/APH/GX</u>
<input checked="" type="checkbox"/> Other <u>Air</u>	<input type="checkbox"/> Other _____	Clean Up: <input type="checkbox"/> FlorsiL (FL) <input type="checkbox"/> Copper (Cu)	
		<input type="checkbox"/> Silica <input type="checkbox"/> Filtration <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Other _____	

Sample ID	pH Waters only	Sample Weight/ Volume	Extraction Solvent Volume	Final Volume	Dilutions		Clean Up (Circle)			Observations
					Amt. Extract	Amt. Solvent	Silica	FL Filter	Cu H <sub>2</sub> SO <sub>4</sub>	
MB		250								
LCS (TO15)		25								
LCS (APH)		150								
LCS (GX)		20								
212012-01		75								
212012-01 Dup		75								
<u>12</u>	<u>12/13/22</u>									

Initials

### Samples in Batch

212152-01	211406-03	212012-01	211402-01
1 -02	212010-01	212007-01	1 -02
211406-01	1 -02	212062-01	1 -03
1 -02	212114- <del>02</del>	1 -02	1 -04

Matrix Spikes:	25cc $\mu$ L of 25ppbv ppm of	TO15 ccv/LCS	Lot # 67-196A	Date/Initials 12/13/22 Bat
	Amount Concentration	Analytes and Solvent		
Matrix Spikes:	150cc $\mu$ L of 112.5ug/m <sup>3</sup> ppm of	APH LCS	Lot # 68-6B	
	Amount Concentration	Analytes and Solvent		
MS Surrogates:	20cc $\mu$ L of 1.000ppbv ppm of	GX ccv/LCS	Lot # 68-30B	
	Amount Concentration	Analytes and Solvent		
Internal Standards:	50cc $\mu$ L of 50ppbv ppm of	TO15 IS/sure/BFB	Lot # 68-35A	
	Amount Concentration	Analytes and Solvent		

Notes:

**EPA TO-15**  
**MDLs**

Reported MDL Data and Calculations

Converted from Reported Air MDLs ppb

Analysis: TO-15  
 Matrix: Air  
 Instrument ID: GCMS #7  
 Reporting Units: ug/m3

Standard(s) spiked:  
 Volume spiked:  
 Date(s) Extracted: 3/22/2021, 03/30/21,  
 Date(s) Analyzed: 3/24/2021, 03/30/21,  
 Date Calculated: 3/24/21, 04/01/21, 04/01/21,  
 Calculation Analyst: BAT, AS

Analyte	(StdDev*2.998) MDL	(2*MDL) PQL	(5*MDL) PQL	Std Dev	Mean	Spike Level	% Rec.
Propene	0.4304	0.8608	2.1520	0.1436	0.2838	0.1721	165
Dichlorodifluoromethane	0.2791	0.5581	1.3953	0.0931	0.5316	0.4945	108
Chloromethane	0.0643	0.1287	0.3217	0.0215	0.2424	0.2065	117
F-114	0.1664	0.3329	0.8322	0.0555	0.7113	0.6991	102
Vinyl chloride	0.0242	0.0484	0.1211	0.0081	0.0572	0.0511	112
1,3-Butadiene	0.0239	0.0478	0.1195	0.0080	0.0512	0.0442	116
Butane	2.1383	4.2766	10.6914	0.7132	4.7542	4.7542	100
Bromomethane	3.8203	7.6405	19.1014	1.2743	8.9606	7.7661	115
Chloroethane	0.0776	0.1552	0.3881	0.0259	0.2599	0.2638	99
Vinyl Bromide	0.1004	0.2007	0.5018	0.0335	0.3921	0.4375	90
Ethanol	4.2256	8.4511	21.1278	1.4095	4.3394	3.7685	115
Acrolein	0.0494	0.0987	0.2468	0.0165	0.1166	0.1146	102
Pentane	3.1981	6.3962	15.9904	1.0667	5.4183	5.9018	92
Trichlorofluoromethane	0.1954	0.3908	0.9770	0.0652	0.5899	0.5618	105
Acetone	1.8530	3.7061	9.2652	0.6181	5.0716	4.7509	107
2-Propanol	2.0247	4.0494	10.1235	0.6754	4.7622	4.9162	97
1,1-Dichloroethene	0.0568	0.1136	0.2840	0.0189	0.1056	0.0793	133
trans-1,2-Dichloroethene	0.0347	0.0693	0.1733	0.0116	0.0902	0.0793	114
Methylene chloride	3.1799	6.3599	15.8997	1.0607	7.5608	6.9472	109
t-Butyl alcohol (TBA)	3.2671	6.5343	16.3357	1.0898	5.9940	6.0630	99
3-Chloropropene	2.4590	4.9180	12.2951	0.8202	6.1177	6.2601	98
CFC-113	0.3043	0.6085	1.5213	0.1015	0.7606	0.7664	99
Carbon disulfide	3.6241	7.2482	18.1206	1.2088	6.4956	6.2282	104
Methyl t-butyl ether (...)	3.7340	7.4680	18.6700	1.2455	6.8231	7.2106	95
Vinyl acetate	3.5615	7.1230	17.8075	1.1880	6.4933	7.0421	92
1,1-Dichloroethane	0.0219	0.0439	0.1097	0.0073	0.0885	0.0809	109
cis-1,2-Dichloroethene	0.0362	0.0724	0.1809	0.0121	0.0877	0.0793	111
Hexane	3.3258	6.6517	16.6292	1.1094	6.4027	7.0495	91
Chloroform	0.0366	0.0733	0.1832	0.0122	0.1056	0.0977	108
Ethyl acetate	3.2257	6.4514	16.1285	1.0759	7.4096	7.2074	103
Tetrahydrofuran	0.1553	0.3106	0.7764	0.0518	0.2739	0.2949	93
2-Butanone (MEK)	3.0782	6.1565	15.3912	1.0268	5.6921	5.8986	97
1,2-Dichloroethane (EDC)	0.0331	0.0661	0.1654	0.0110	0.0870	0.0809	108
1,1,1-Trichloroethane	0.0417	0.0834	0.2085	0.0139	0.1214	0.1091	111
Carbon tetrachloride	0.0659	0.1318	0.3296	0.0220	0.1431	0.1258	114
Benzene	0.0289	0.0579	0.1447	0.0097	0.0747	0.0639	117
Cyclohexane	3.1077	6.2153	15.5383	1.0366	6.3955	6.8843	93
1,2-Dichloropropane	0.0804	0.1609	0.4022	0.0268	0.4829	0.4621	105
1,4-Dioxane	0.0795	0.1590	0.3974	0.0265	0.3383	0.3604	94
2,2,4-Trimethylpentane	2.6817	5.3634	13.4086	0.8945	9.1600	9.3440	98
Methyl Methacrylate	2.5467	5.0933	12.7334	0.8495	8.6679	8.1898	106
Heptane	2.0853	4.1706	10.4265	0.6956	8.1054	8.1971	99
Bromodichloromethane	0.0363	0.0726	0.1816	0.0121	0.1550	0.1340	116
Trichloroethene	0.0515	0.1030	0.2574	0.0172	0.1223	0.1075	114
cis-1,3-Dichloropropene	0.2049	0.4097	1.0244	0.0683	0.5180	0.4539	114
4-Methyl-2-pentanone	2.2479	4.4958	11.2395	0.7498	8.5541	8.1930	104
trans-1,3-Dichloropropene	0.0619	0.1238	0.3095	0.0206	0.4726	0.4539	104
Toluene	0.0794	0.1589	0.3972	0.0265	0.3825	0.3769	102
1,1,2-Trichloroethane	0.0287	0.0573	0.1433	0.0096	0.1214	0.1091	111
2-Hexanone	2.1976	4.3952	10.9880	0.7330	8.5259	8.1930	104
Tetrachloroethene	0.1446	0.2891	0.7229	0.0482	0.7910	0.6782	117
Dibromochloromethane	0.0528	0.1055	0.2638	0.0176	0.1991	0.1704	117
1,2-Dibromoethane (EDB)	0.0519	0.1037	0.2594	0.0173	0.1671	0.1537	109
Chlorobenzene	0.1180	0.2361	0.5902	0.0394	0.4627	0.4604	101
Ethylbenzene	0.1285	0.2570	0.6425	0.0429	0.3582	0.4342	83
1,1,2,2-Tetrachloroethane	0.0479	0.0957	0.2394	0.0160	0.1485	0.1373	108
Nonane	3.6205	7.2410	18.1025	1.2076	9.6995	10.4916	92
Isopropylbenzene	5.2598	10.5196	26.2991	1.7544	10.3796	9.8315	106
2-Chlorotoluene	4.8967	9.7934	24.4836	1.6333	10.6760	10.3550	103
Propylbenzene	4.3113	8.6226	21.5564	1.4381	9.8432	9.8315	100
4-Ethyltoluene	4.5322	9.0645	22.6612	1.5118	9.3866	9.8315	95
m,p-Xylene	0.2558	0.5115	1.2788	0.0853	0.6969	0.8685	80
o-Xylene	0.1536	0.3073	0.7682	0.0512	0.3479	0.4342	80
Styrene	0.1516	0.3033	0.7582	0.0506	0.3328	0.4260	78
Bromoform	0.5132	1.0265	2.5661	0.1712	0.9768	1.0337	95
Benzyl chloride	0.0310	0.0619	0.1549	0.0103	0.0951	0.1035	92
1,3,5-Trimethylbenzene	3.8218	7.6435	19.1088	1.2748	9.7332	9.8315	99
1,2,4-Trimethylbenzene	3.6101	7.2201	18.0504	1.2042	9.0732	9.8315	92
1,3-Dichlorobenzene	0.1088	0.2175	0.5438	0.0363	0.5764	0.6012	96
1,4-Dichlorobenzene	0.1267	0.2534	0.6335	0.0423	0.5373	0.6012	89
1,2-Dichlorobenzene	0.1154	0.2308	0.5769	0.0385	0.5779	0.6012	96
1,2,4-Trichlorobenzene	0.5098	1.0196	2.5491	0.1701	0.7662	0.7421	103
Naphthalene	0.0931	0.1863	0.4657	0.0311	0.0976	0.1048	93
Hexachlorobutadiene	0.1081	0.2162	0.5405	0.0361	0.3146	0.2133	148
IA Naphthalene	0.0271	0.0543	0.1357	0.0091	0.1212	0.1048	116
Gasoline Range Organics	29.6568	59.3135	148.2838	9.8922	332.9713	328.0000	102

**EPA TO-15**  
**Sequence Tables**

Sequence Name: C:\msdchem\1\sequence\11-15-22.s

Comment:

Operator: bat

Data Path: D:\GCMS7\GCMS7\_DATA\11-15-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:


Method Sections To Run      On A Barcode Mismatch  
(X) Full Method              (X) Inject Anyway  
( ) Reprocessing Only        ( ) Don't Inject

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Line	Sample Name/Misc Info
1) Sample	1 111501 TO15DC rinse
2) Sample	2 111502 TO15DC BFB 67-184a
3) Sample	3 111503 TO15DC 25 ppbv std prime
4) Sample	4 111504 TO15DC 25 ppbv scv prime
5) Sample	5 111505 TO15DC 1.0 ppbv prime
6) Sample	6 111506 TO15DC 0.1 ppbv prime
7) Sample	7 111507 TO15DC 0.05 ppbv prime
8) Sample	8 111508 TO15DC 0.02 ppbv prime
9) Sample	9 111509 SRINSE rinse, short
10) Sample	10 111510 SRINSE rinse, short
11) Sample	11 111511 SRINSE rinse, short
12) Sample	12 111512 TO15DC rinse
13) Sample	13 111513 TO15DC rinse
14) Sample	14 111514 TO15DC rinse
15) Sample	15 111515 TO15DC 0.01 ppbv TO15 67-196e
16) Sample	16 111516 TO15DC 0.01 ppbv 67-196e
17) Sample	17 111517 TO15DC 0.02 ppbv 67-196e
18) Sample	18 111518 TO15DC 0.05 ppbv 67-196D
19) Sample	19 111519 TO15DC 0.1 ppbv 67-196c
20) Sample	20 111520 TO15DC 0.2 ppbv 67-196B
21) Sample	21 111521 TO15DC 0.5 ppbv 67-196B
22) Sample	22 111522 TO15DC 1.0 ppbv 67-196B
23) Sample	23 111523 TO15DC 2.5 ppbv 67-196a
24) Sample	24 111524 TO15DC 4.0 ppbv 67-196a
25) Sample	25 111525 TO15DC 5.0 ppbv 67-196a
26) Sample	26 111526 TO15DC 8.0 ppbv 67-196a
27) Sample	27 111527 TO15DC 10 ppbv 67-196a
28) Sample	28 111528 TO15DC 15 ppbv 67-196a
29) Sample	29 111529 TO15DC rinse
30) Sample	30 111530 TO15DC rinse
31) Sample	31 111531 TO15DC 2.5 ppbv 67-167a
32) Sample	32 111532 TO15DC rinse



Sample	1	rinse	TO15DC	111601	T1
Sample	2	BFB 67-184a	TO15DC	111602	T1
Sample	3	02-2755 lcs/ 2.5ppbv 67-196a	TO15DC	111603	cal line
Sample	4	5 ppbv APH 67-163a	TO15DC	111604	Line 2
Sample	5	02-2755 lcs/ 67 ug/m3 67-160b	TO15DC	111605	Line 3
Sample	6	tree rinse	SRINSE	111606	T1
Sample	7	tree rinse	SRINSE	111607	T1
Sample	8	rinse	TO15DC	111608	T1
Sample	9	rinse	TO15DC	111609	T1
Sample	10	02-2755 MB	TO15DC	111610	T1
Sample	11	211099-01	TO15DC	111611	T2
Sample	12	211099-02	TO15DC	111612	T3
Sample	13	211099-03	TO15DC	111613	T4
Sample	14	211099-04	TO15DC	111614	T5
Sample	15	211099-05	TO15DC	111615	T6
Sample	16	211099-06	TO15DC	111616	T7
Sample	17	211099-07	TO15DC	111617	T8
Sample	18	211099-08	TO15DC	111618	T9
Sample	19	rinse	TO15DC	111619	T1
Sample	20	211070-01 dup 1/5.3	TO15DC	111620	T10
Sample	21	211070-01 1/5.3	TO15DC	111621	T10
Sample	22	211070-02 1/5.1	TO15DC	111622	T11
Sample	23	211070-03 1/5.5	TO15DC	111623	T12
Sample	24	rinse	TO15DC	111624	T1
Sample	25	211069-03 1/4.8	TO15DC	111625	T13
Sample	26	211069-02 1/4.8	TO15DC	111626	T14
Sample	27	211069-01 1/5.4	TO15DC	111627	T15
Sample	28	rinse	TO15DC	111628	T1
Sample	29	211048-01 1/270	TO15DC	111629	Line 4
Sample	30	rinse	TO15DC	111630	T1
Sample	31	rinse	TO15DC	111631	T1

  
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 4/16

## Injection Log

Data Directory: D:\Proc\_GCMS7\11-15-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 111501.D rinse	TO15DC.M T1	1	1.000	15 Nov 2022 6:19 pm
2) 111502.D BFB 67-184a	TO15DC.M T1	2	1.000	15 Nov 2022 6:54 pm
3) 111503.D 25 ppbv std prime	TO15DC.M cal line	3	1.000	15 Nov 2022 7:29 pm
4) 111504.D 25 ppbv scv prime	TO15DC.M T7	4	1.000	15 Nov 2022 8:04 pm
5) 111505.D 1.0 ppbv prime	TO15DC.M T6	5	1.000	15 Nov 2022 8:38 pm
6) 111506.D 0.1 ppbv prime	TO15DC.M T5	6	1.000	15 Nov 2022 9:14 pm
7) 111507.D 0.05 ppbv prime	TO15DC.M T4	7	1.000	15 Nov 2022 9:50 pm
8) 111508.D 0.02 ppbv prime	TO15DC.M T3	8	1.000	15 Nov 2022 10:27 pm
9) 111509.D rinse, short	SRINSE.M T1	9	1.000	15 Nov 2022 11:06 pm
10) 111510.D rinse, short	SRINSE.M T1	10	1.000	15 Nov 2022 11:42 pm
11) 111511.D rinse, short	SRINSE.M T1	11	1.000	16 Nov 2022 12:18 am
12) 111512.D rinse	TO15DC.M T1	12	1.000	16 Nov 2022 1:00 am
13) 111513.D rinse	TO15DC.M T1	13	1.000	16 Nov 2022 1:44 am
14) 111514.D rinse	TO15DC.M T1	14	1.000	16 Nov 2022 2:28 am
15) 111515.D 0.01 ppbv TO15 67-..	TO15DC.M T3, 125cc of 0.02..	15	1.000	16 Nov 2022 3:05 am
16) 111516.D 0.01 ppbv 67-196e	TO15DC.M T3, 125cc of 0.02..	16	1.000	16 Nov 2022 3:43 am
17) 111517.D 0.02 ppbv 67-196e	TO15DC.M T3, 250cc of 0.02p..	17	1.000	16 Nov 2022 4:27 am
18) 111518.D 0.05 ppbv 67-196D	TO15DC.M T4, 250cc of 0.05p..	18	1.000	16 Nov 2022 5:11 am
19) 111519.D 0.1 ppbv 67-196c	TO15DC.M T5, 250cc of 0.1ppbv	19	1.000	16 Nov 2022 5:54 am
20) 111520.D 0.2 ppbv 67-196B	TO15DC.M T6, 50cc of 1ppbv	20	1.000	16 Nov 2022 6:29 am
21) 111521.D	TO15DC.M			

0.5 ppbv 67-196B	T6, 125cc of 1ppbv	21	1.000	16 Nov 2022	7:07 am
22) 111522.D	TO15DC.M				
1.0 ppbv 67-196B	T6, 250cc of 1ppbv	22	1.000	16 Nov 2022	7:51 am
23) 111523.D	TO15DC.M				
2.5 ppbv 67-196a	cal line, 25cc of ..	23	1.000	16 Nov 2022	8:25 am
24) 111524.D	TO15DC.M				
4.0 ppbv 67-196a	cal line, 25cc of ..	24	1.000	16 Nov 2022	9:00 am
25) 111525.D	TO15DC.M				
5.0 ppbv 67-196a	cal line, 25cc of ..	25	1.000	16 Nov 2022	9:34 am
26) 111526.D	TO15DC.M				
8.0 ppbv 67-196a	cal line, 25cc of ..	26	1.000	16 Nov 2022	10:10 am
27) 111527.D	TO15DC.M				
10 ppbv 67-196a	cal line, 25cc of ..	27	1.000	16 Nov 2022	10:46 am
28) 111528.D	TO15DC.M				
15 ppbv 67-196a	cal line, 25cc of ..	28	1.000	16 Nov 2022	11:25 am
29) 111529.D	TO15DC.M				
rinse	T1	29	1.000	16 Nov 2022	12:08 pm
30) 111530.D	TO15DC.M				
rinse	T1	30	1.000	16 Nov 2022	12:52 pm
31) 111531.D	TO15DC.M				
2.5 ppbv 67-167a	T7, 25cc of 25ppbv	31	1.000	16 Nov 2022	1:27 pm

Sequence Name: D:\GCMS7\GCMS7\_Data\12-13-22.s

Comment:

Operator: bat

Data Path: D:\GCMS7\GCMS7\_DATA\12-13-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch  
(X) Full Method              (X) Inject Anyway  
( ) Reprocessing Only        ( ) Don't Inject

*M-12/14*

Line	Sample Name/Misc Info
1)	Sample 1 121301 TO15DC rinse
2)	Sample 2 121302 TO15DC BFB 68-35a
3)	Sample 3 121303 TO15DC 02-2958 lcs/ 2.5 ppbv 67-196a
4)	Sample 4 121304 TO15DC 5 ppbv APH 67-195a
5)	Sample 5 121305 TO15DC 02-2958 lcs/ 2.5 ppbv 67-196a
6)	Sample 6 121306 TO15DC 02-2958 lcs/ 67 ug/ml 68-6b
7)	Sample 7 121307 TO15DC 02-2958 lcs/ 80 ppbv Gx 68-30
8)	Sample 8 121308 SRINSE rinse, short
9)	Sample 9 121309 SRINSE rinse, short
10)	Sample 10 121310 TO15DC rinse
11)	Sample 11 121311 TO15DC rinse
12)	Sample 12 121312 TO15DC 02-2958 MB
13)	Sample 13 121313 TO15DC 212152-02
14)	Sample 14 121314 TO15DC 212152-01
15)	Sample 15 121315 TO15DC rinse
16)	Sample 16 121316 TO15DC 211406-03
17)	Sample 17 121317 TO15DC 211406-02
18)	Sample 18 121318 TO15DC 211406-01
19)	Sample 19 121319 TO15DC rinse
20)	Sample 20 121320 TO15DC 212010-01
21)	Sample 21 121321 TO15DC 212010-02
22)	Sample 22 121322 TO15DC rinse
23)	Sample 23 121323 TO15DC 212114-01
24)	Sample 24 121324 TO15DC rinse
25)	Sample 25 121325 TO15DC 212012-01 1/5.0
26)	Sample 26 121326 TO15DC 212012-01 dup 1/5.0
27)	Sample 27 121327 TO15DC rinse
28)	Sample 28 121328 TO15DC 212007-01 1/8.0
29)	Sample 29 121329 TO15DC rinse
30)	Sample 30 121330 TO15DC 212062-01 1/4.6
31)	Sample 31 121331 TO15DC 212062-02 1/33
32)	Sample 32 121332 TO15DC rinse
33)	Sample 33 121333 TO15DC 211402-01 1/5.8
34)	Sample 34 121334 TO15DC 211402-03 1/8.8
35)	Sample 35 121335 TO15DC 211402-04 1/560
36)	Sample 36 121336 TO15DC 211402-02 1/1100
37)	Sample 37 121337 TO15DC rinse

Sample	1	rinse	TO15DC	121301	T1
Sample	2	BFB 68-35a	TO15DC	121302	T1
Sample	3	02-2958 lcs/ 2.5 ppbv 67-196a	TO15DC	121303	Cal line
Sample	4	5 ppbv APH 67-195a	TO15DC	121304	line 4
Sample	5	02-2958 lcs/ 2.5 ppbv 67-196a rr	TO15DC	121305	Cal line
Sample	6	02-2958 lcs/ 67 ug/ml 68-6b	TO15DC	121306	line 3
Sample	7	02-2958 lcs/ 80 ppbv Gx 68-30b	TO15DC	121307	line 3
Sample	8	rinse, short	SRINSE	121308	T1
Sample	9	rinse, short	SRINSE	121309	T1
Sample	10	rinse	TO15DC	121310	T1
Sample	11	rinse	TO15DC	121311	T1
Sample	12	02-2958 MB	TO15DC	121312	T1
Sample	13	212152-02	TO15DC	121313	T2
Sample	14	212152-01	TO15DC	121314	T3
Sample	15	rinse	TO15DC	121315	T1
Sample	16	211406-03	TO15DC	121316	T4
Sample	17	211406-02	TO15DC	121317	T5
Sample	18	211406-01	TO15DC	121318	T6
Sample	19	rinse	TO15DC	121319	T1
Sample	20	212010-01	TO15DC	121320	T7
Sample	21	212010-02	TO15DC	121321	T8
Sample	22	rinse	TO15DC	121322	T1
Sample	23	212114-01	TO15DC	121323	T9
Sample	24	rinse	TO15DC	121324	T1
Sample	25	212012-01 1/5.0	TO15DC	121325	T10
Sample	26	212012-01 dup 1/5.0	TO15DC	121326	T10
Sample	27	rinse	TO15DC	121327	T1
Sample	28	212007-01 1/8.0	TO15DC	121328	T11
Sample	29	rinse	TO15DC	121329	T1
Sample	30	212062-01 1/4.6	TO15DC	121330	T12
Sample	31	212062-02 1/33	TO15DC	121331	T13
Sample	32	rinse	TO15DC	121332	T1
Sample	33	211402-01 1/5.8	TO15DC	121333	T14
Sample	34	211402-03 1/8.8	TO15DC	121334	T15
Sample	35	211402-04 1/560	TO15DC	121335	T16
Sample	36	211402-02 1/1100	TO15DC	121336	line 4
Sample	37	rinse	TO15DC	121337	T1
Sample	38	rinse	TO15DC	121338	T1

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20) 121320.D 212010-01	<i>woc</i> T7	TO15DC.M	20	1.000	14 Dec 2022	2:29 am
21) 121321.D 212010-02	T8	TO15DC.M	21	1.000	14 Dec 2022	3:17 am
22) 121322.D rinse	T1	TO15DC.M	22	1.000	14 Dec 2022	4:01 am
23) 121323.D 212114-01	<i>pce dayhrs</i> T9	TO15DC.M	23	1.000	14 Dec 2022	4:48 am
24) 121324.D rinse	T1	TO15DC.M	24	1.000	14 Dec 2022	5:32 am
25) 121325.D 212012-01 1/5.0	<i>woc</i> T10	TO15DC.M	25	1.000	14 Dec 2022	6:07 am
26) 121326.D 212012-01 dup 1/5.0	T10	TO15DC.M	26	1.000	14 Dec 2022	6:42 am
27) 121327.D rinse	T1	TO15DC.M	27	1.000	14 Dec 2022	7:26 am
28) 121328.D 212007-01 1/8.0	<i>woc</i> T11	TO15DC.M	28	1.000	14 Dec 2022	8:00 am
29) 121329.D rinse	T1	TO15DC.M	29	1.000	14 Dec 2022	8:44 am
30) 121330.D 212062-01 1/4.6	<i>BTEX GX</i> T12	TO15DC.M	30	1.000	14 Dec 2022	9:19 am
31) 121331.D 212062-02 1/33	T13	TO15DC.M	31	1.000	14 Dec 2022	9:54 am
32) 121332.D rinse	T1	TO15DC.M	32	1.000	14 Dec 2022	10:38 am
33) 121333.D 211402-01 1/5.8	<i>BTEX GX</i> T14	TO15DC.M	33	1.000	14 Dec 2022	11:13 am
34) 121334.D 211402-03 1/8.8	T15	TO15DC.M	34	1.000	14 Dec 2022	11:48 am
35) 121335.D 211402-04 1/560	<i>FLG T16</i>	TO15DC.M	35	1.000	14 Dec 2022	12:22 pm
36) 121336.D 211402-02 1/1100	<i>BTEX FLG line 4</i> T16	TO15DC.M	36	1.000	14 Dec 2022	12:57 pm
37) 121337.D rinse	T1	TO15DC.M	37	1.000	14 Dec 2022	1:41 pm

Injection Log

Data Directory: D:\Proc\_GCMS7\12-13-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 121301.D rinse	TO15DC.M T1	1	1.000	13 Dec 2022 1:05 pm
2) 121302.D BFB 68-35a	TO15DC.M T1	2	1.000	13 Dec 2022 1:40 pm
3) 121303.D 02-2958 lcs/ 2.5 p..	TO15DC.M Cal line	3	1.000	13 Dec 2022 2:15 pm
4) 121304.D 5 ppbv APH 67-195a	TO15DC.M line 4	4	1.000	13 Dec 2022 2:49 pm
5) 121305.D 02-2958 lcs/ 2.5 p..	TO15DC.M Cal line	5	1.000	13 Dec 2022 3:24 pm
6) 121306.D 02-2958 lcs/ 67 ug..	TO15DC.M line 3	6	1.000	13 Dec 2022 4:03 pm
7) 121307.D 02-2958 lcs/ 80 pp..	TO15DC.M line 3	7	1.000	13 Dec 2022 4:37 pm
8) 121308.D rinse, short	SRINSE.M T1	8	1.000	13 Dec 2022 5:16 pm
9) 121309.D rinse, short	SRINSE.M T1	9	1.000	13 Dec 2022 5:52 pm
10) 121310.D rinse	TO15DC.M T1	10	1.000	13 Dec 2022 6:34 pm
11) 121311.D rinse	TO15DC.M T1	11	1.000	13 Dec 2022 7:17 pm
12) 121312.D 02-2958 MB	TO15DC.M T1	12	1.000	13 Dec 2022 8:01 pm
13) 121313.D 212152-02	TO15 FL TO15DC.M T2	13	1.000	13 Dec 2022 8:51 pm
14) 121314.D 212152-01	TO15DC.M T3	14	1.000	13 Dec 2022 9:39 pm
15) 121315.D rinse	TO15DC.M T1	15	1.000	13 Dec 2022 10:23 pm
16) 121316.D 211406-03	TO15DC.M T4 CWC PCE # 2	16	1.000	13 Dec 2022 11:12 pm
17) 121317.D 211406-02	TO15DC.M T5 # 2	17	1.000	13 Dec 2022 11:58 pm
18) 121318.D 211406-01	TO15DC.M T6	18	1.000	14 Dec 2022 12:47 am
19) 121319.D rinse	TO15DC.M T1	19	1.000	14 Dec 2022 1:31 am

# EPA TO-15 Checklists



# GC/MS ICAL Checklist

Instrument: GC/MS 7

Sequence Date: 11-15-22

Shift # 1

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	✓ <i>RT</i>	11-18-22
2 <sup>nd</sup> source passed <span style="float: right;"><i>* See note</i></span>	✓	
Analyte retention time checked	✓	
Tune passed	✓	
Non-Conformance Report filled out (if needed)	NA	

Notes: *- Carbon tetrachloride - raised RL to 2.5 ppbv*  
*- Brominated analytes (Bromodichloromethane, Dibromochloromethane, Bromoform - raised RL to 2.5 ppbv)*  
*\* - SCV. But for Carbon tetrachloride & Bromoform "CA"*  
*Low Benzyl Chloride "CA"*

Attach this sheet to raw data package.

YA 11/21/22

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Supervisor Initials and Date

**TO-15/TO-17  
Daily Checklist**

Instrument: GC/MS 7

Sequence Date: 12-13-22

Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 24 hour shift	✓ 12	12-16-22
Internal Standards within limits 60%-140% of the CCV	✓	
Surrogate recoveries within limits (TO-15 only)	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Tune Analyzed and Passed	✓	
Continuing Calibration Analyzed, Evaluated and Passed	✓	
Non-Conformance Report filled out (if needed)	NA	

Notes:

-

Attach this sheet to raw data package.

YA 12/16/22  
Supervisor Initials and Date

**EPA TO-15**  
**Internal Standard/Surrogate Summaries**

GC/MS QA-QC Check Report

Tune File : D:\Proc\_GCMS7\11-15-22\111502.D  
 Tune Time : 15 Nov 2022 6:54 pm

Daily Calibration File : D:\Proc\_GCMS7\11-15-22\111523.D

(BFB)

60056 277968 243467

File	Sample	Surrogate	Recovery %	Internal	Standard	Responses
111516.D	0.01 ppbv	91		63553	284548	252181
111517.D	0.02 ppbv	93		62504	285561	252187
111518.D	0.05 ppbv	90		63103	281669	250812
111519.D	0.1 ppbv 6	90		62284	285873	251782
111520.D	0.2 ppbv 6	92		63282	281999	252889
111521.D	0.5 ppbv 6	98		62780	282561	247110
111522.D	1.0 ppbv 6	99		61897	280612	252262
111523.D	2.5 ppbv 6	107		60056	277968	243467
111524.D	4.0 ppbv 6	106		61124	281759	251020
111525.D	5.0 ppbv 6	108		60983	276283	244337
111526.D	8.0 ppbv 6	107		57898	276532	249716
111527.D	10 ppbv 67	107		58357	276208	247864
111528.D	15 ppbv 67	113		58999	278765	247324
111531.D	2.5 ppbv 6	105		61975	285054	252304

(fails) - fails 24hr time check \* - fails criteria

Created: Fri Nov 18 15:30:42 2022 GCMS7

GC/MS QA-QC Check Report

Tune File : D:\Proc\_GCMS7\12-13-22\121302.D

Tune Time : 13 Dec 2022 1:40 pm

Daily Calibration File : D:\Proc\_GCMS7\12-13-22\121305.D

(BFB)

48772 210038 195417

File	Sample	Surrogate Recovery %	Internal	Standard	Responses
121310.D	rinse	85	51236	202567	190129
121311.D	rinse	83	49663	192709	181786
121312.D	02-2958 MB	85	47986	191662	178213
121313.D	212152-02	86	46332	167565	167240
121314.D	212152-01	102	41973	164776	166063
121315.D	rinse	86	50242	206578	190741
121316.D	211406-03	89	50086	191070	191122
121317.D	211406-02	84	51533	194659	190393
121318.D	211406-01	88	49224	191720	193904
121319.D	rinse	86	52053	204528	190843
121320.D	212010-01	88	50302	179242	189011
121321.D	212010-02	96	49397	197147	205641
121322.D	rinse	84	50656	203871	188614
121323.D	212114-01	87	52144	194483	192451
121324.D	rinse	86	50313	201753	187393
121325.D	212012-01	84	51119	205145	187844
121326.D	212012-01	84	52065	208818	192391
121327.D	rinse	86	51211	205372	190073
121328.D	212007-01	84	50546	203107	184518

T015

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121329.D	rinse	86	51266	203096	186352
121330.D	212062-01	85	51176	211278	186904
121331.D	212062-02	91	52059	212689	193939
121332.D	rinse	84	50400	203195	192076
121333.D	211402-01	85	50567	204413	189094
121334.D	211402-03	86	51115	203564	188311
121335.D	211402-04	82	49475	205821	189056
121336.D	211402-02	83	49016	203490	186752
121337.D	(fails) rinse	83	51712	201591	192633

(fails) - fails 24hr time check \* - fails criteria

Created: Fri Dec 16 11:26:18 2022 GCMS7

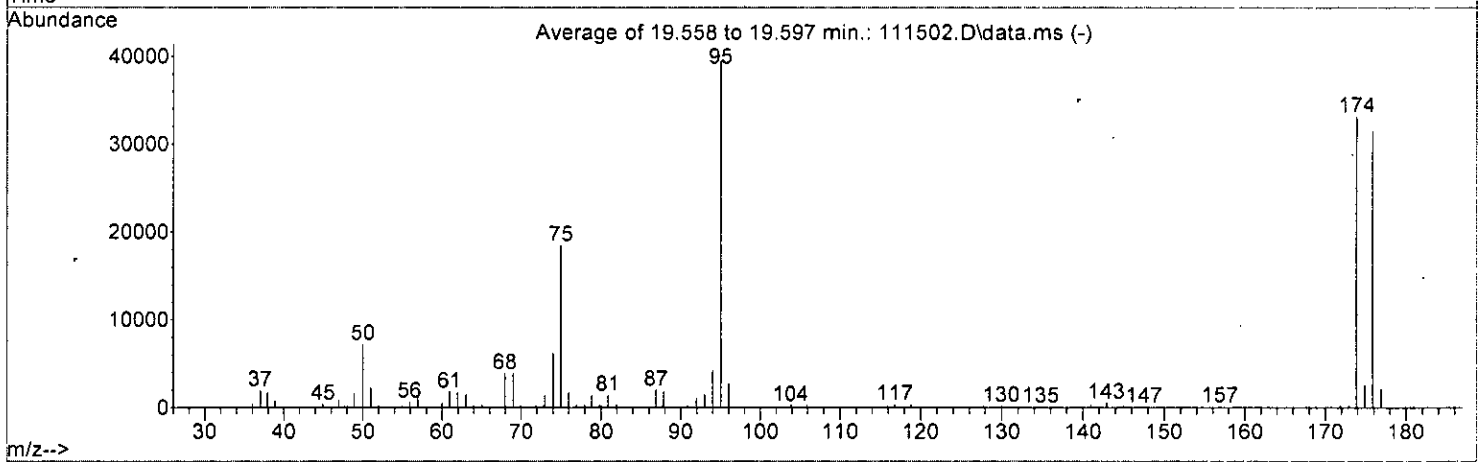
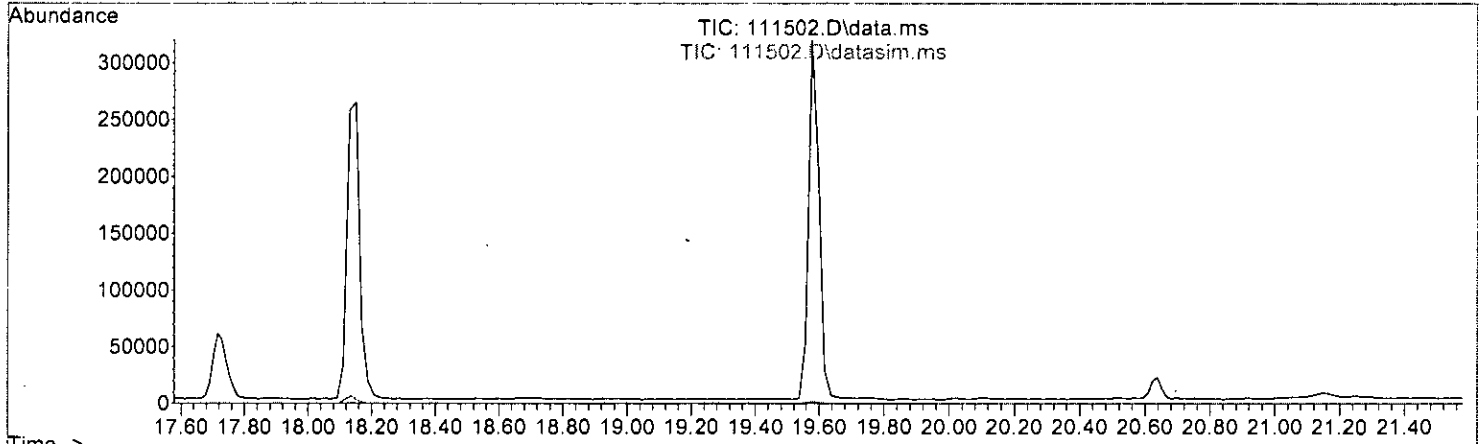
*h*  
*12/16/22*

**EPA TO-15  
Tune Summaries**

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111502.D  
 Acq On : 15 Nov 2022 6:54 pm  
 Operator : bat  
 Sample : BFB 67-184a  
 Misc : T1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p  
 Integration File signal 2: rteint2.p

Method : D:\GCMS7 Methods\1115T015ss7.M  
 Title : T0-15 SS method  
 Last Update : Fri Nov 18 12:30:32 2022



AutoFind: Scans 791, 792, 793; Background Corrected with Scan 787

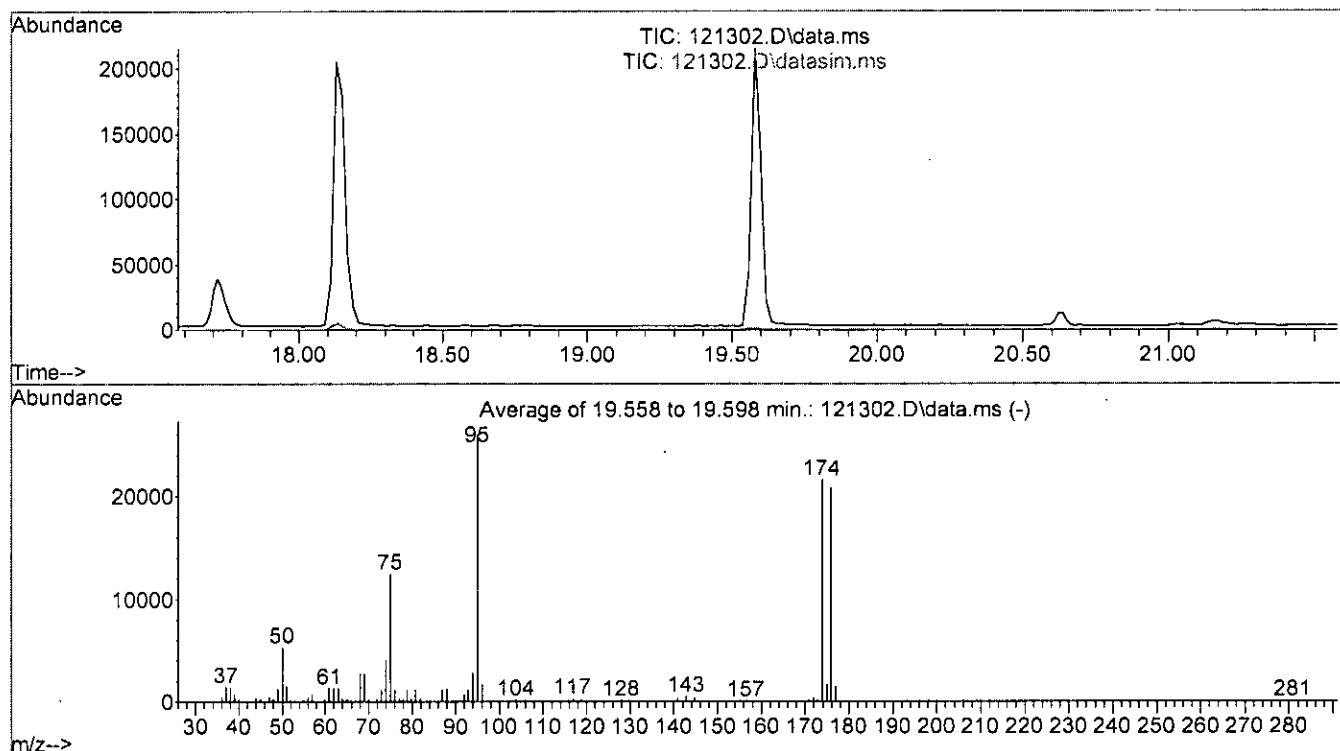
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	7157	PASS
75	95	30	66	46.8	18431	PASS
95	95	100	100	100.0	39397	PASS
96	95	5	9	6.6	2599	PASS
173	174	0.00	2	0.5	155	PASS
174	95	50	120	84.0	33111	PASS
175	174	4	9	7.3	2426	PASS
176	174	93	101	94.8	31402	PASS
177	176	5	9	6.4	2022	PASS



Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121302.D  
 Acq On : 13 Dec 2022 1:40 pm  
 Operator : bat  
 Sample : BFB 68-35a  
 Misc : T1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p  
 Integration File signal 2: rteint2.p

Method : D:\GCMS7 Methods\1115T015ss7.M  
 Title : T0-15 SS method  
 Last Update : Fri Nov 18 12:30:32 2022



AutoFind: Scans 791, 792, 793; Background Corrected with Scan 787

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.4	5292	PASS
75	95	30	66	47.8	12412	PASS
95	95	100	100	100.0	25963	PASS
96	95	5	9	6.5	1694	PASS
173	174	0.00	2	0.6	125	PASS
174	95	50	120	83.0	21539	PASS
175	174	4	9	7.6	1636	PASS
176	174	93	101	96.4	20753	PASS
177	176	5	9	6.7	1394	PASS

**EPA TO-15**  
**Initial Calibrations**

Calibration Status Report GCMS7

Method Path : D:\GCMS7 Methods\  
 Method File : 1115TO15ss7.M  
 Title : TO-15 SS method  
 Last Update : Fri Nov 18 12:30:32 2022  
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.01	-1	10	D:\Proc_GCMS7\11-15-22\111516.D
2	0.02	0	10	D:\Proc_GCMS7\11-15-22\111517.D
3	0.05	0	10	D:\Proc_GCMS7\11-15-22\111518.D
4	0.1	0	10	D:\Proc_GCMS7\11-15-22\111519.D
5	0.2	0	10	D:\Proc_GCMS7\11-15-22\111520.D
6	0.5	1	10	D:\Proc_GCMS7\11-15-22\111521.D
7	1	1	10	D:\Proc_GCMS7\11-15-22\111522.D
8	2.5	3	10	D:\Proc_GCMS7\11-15-22\111523.D
9	4	4	10	D:\Proc_GCMS7\11-15-22\111524.D
10	5	5	10	D:\Proc_GCMS7\11-15-22\111525.D
11	8	8	10	D:\Proc_GCMS7\11-15-22\111526.D
12	10	10	10	D:\Proc_GCMS7\11-15-22\111527.D
13	15	15	10	D:\Proc_GCMS7\11-15-22\111528.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.01	Nov 16 12:19 2022	Nov 16 12:16 2022	16 Nov 2022 3:43 am
2	0.02	Nov 16 12:19 2022	Nov 16 12:15 2022	16 Nov 2022 4:27 am
3	0.05	Nov 16 12:19 2022	Nov 16 12:14 2022	16 Nov 2022 5:11 am
4	0.1	Nov 16 12:19 2022	Nov 16 11:55 2022	16 Nov 2022 5:54 am
5	0.2	Nov 16 12:19 2022	Nov 16 12:00 2022	16 Nov 2022 6:29 am
6	0.5	Nov 16 12:19 2022	Nov 16 11:57 2022	16 Nov 2022 7:07 am
7	1	Nov 16 12:19 2022	Nov 16 12:02 2022	16 Nov 2022 7:51 am
8	2.5	Nov 16 12:19 2022	Nov 16 12:03 2022	16 Nov 2022 8:25 am
9	4	Nov 16 12:19 2022	Nov 16 12:05 2022	16 Nov 2022 9:00 am
10	5	Nov 16 12:19 2022	Nov 16 12:06 2022	16 Nov 2022 9:34 am
11	8	Nov 16 12:19 2022	Nov 16 12:07 2022	16 Nov 2022 10:10 am
12	10	Nov 16 12:19 2022	Nov 16 12:08 2022	16 Nov 2022 10:46 am
13	15	Nov 16 12:19 2022	Nov 16 12:09 2022	16 Nov 2022 11:25 am

1115TO15ss7.M Fri Nov 18 12:37:52 2022

## Compound List Report GCMS7

Method Path : D:\GCMS7 Methods\  
 Method File : 1115T015ss7.M  
 Title : TO-15 SS method  
 Last Update : Fri Nov 18 12:30:32 2022  
 Response Via : Initial Calibration

Total Cpnds : 78

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I Bromochloromethane	128	9.88	1.000	A	2	A	B
2	T Propene	41	3.41	0.345	Q	2	A	B
3	T Dichlorodifluoromethane	85	3.48	0.353	A	1	A	B
4	T Chloromethane	-50	3.73	0.377	A	1	A	B
5	T F-114	85	3.88	0.393	A	2	A	B
6	T Vinyl chloride	-62	4.09	0.414	A	1	A	B
7	T 1,3-Butadiene	-54	4.29	0.434	A	3	A	B
8	T Butane	43	4.32	0.437	A	1	A	B
9	T Bromomethane	94	4.60	0.465	A	1	A	B
10	T Chloroethane	-64	4.84	0.490	A	1	A	B
11	T Vinyl bromide	-106	5.32	0.538	A	1	A	B
12	T Ethanol	45	4.96	0.501	A	1	A	B
13	T Acrolein	-56	5.42	0.548	A	1	A	B
14	T Pentane	43	6.25	0.633	A	2	A	B
15	T Trichlorofluoromethane	101	5.84	0.591	A	1	A	B
16	T Acetone	58	5.57	0.563	A	1	A	B
17	T 2-Propanol	45	5.78	0.585	A	2	A	B
18	T 1,1-Dichloroethene	-96	6.63	0.671	A	2	A	B
19	T trans-1,2-Dichloroethene	-96	8.10	0.819	A	2	A	B
20	T Methylene chloride	84	6.80	0.689	A	2	A	B
21	T t-Butyl alcohol (TBA)	59	6.57	0.665	A	1	A	B
22	T 3-Chloropropene	41	6.94	0.702	A	1	A	B
23	T CFC-113	101	7.15	0.723	A	2	A	B
24	T Carbon disulfide	76	7.28	0.736	A	2	A	B
25	T Methyl t-butyl ether (MTBE)	73	8.43	0.853	A	1	A	B
26	T Vinyl acetate	43	8.54	0.864	A	1	A	B
27	T 1,1-Dichloroethane	-63	8.36	0.846	A	2	A	B
28	T cis-1,2-Dichloroethene	-96	9.64	0.975	A	2	A	B
29	T Hexane	57	10.01	1.013	A	2	A	B
30	T Chloroform	-83	10.10	1.022	Q	1	A	B
31	T Ethyl acetate	43	9.92	1.004	A	1	A	B
32	T Tetrahydrofuran	42	10.75	1.088	A	1	A	B
33	T 2-Butanone (MEK)	72	8.91	0.901	A	3	A	B
34	T 1,2-Dichloroethane (EDC)	-62	11.34	1.147	Q	1	A	B
35	T 1,1,1-Trichloroethane	-97	11.82	1.197	A	2	A	B
36	T Carbon tetrachloride	-117	12.86	1.302	A	1	A	B
37	T Benzene	-78	12.61	1.276	Q	1	A	B
38	T Cyclohexane	84	13.07	1.323	A	2	A	B
39	I 1,4-Difluorobenzene	114	13.14	1.000	A	2	A	B
40	T 1,2-Dichloropropane	-63	13.80	1.050	A	1	A	B
41	T 1,4-Dioxane	-88	14.09	1.072	A	1	A	B
42	T 2,2,4-Trimethylpentane	57	14.24	1.083	A	2	A	B
43	T Methyl methacrylate	41	14.36	1.093	A	2	A	B
44	T Heptane	43	14.56	1.108	A	3	A	B
45	T Bromodichloromethane	-83	14.04	1.069	A	2	A	B
46	T Trichloroethene	-95	14.14	1.076	A	3	A	B
47	T cis-1,3-Dichloropropene	75	15.20	1.157	A	2	A	B
48	T 4-Methyl-2-pentanone	100	15.23	1.158	A	3	A	B
49	T trans-1,3-Dichloropropene	-75	15.78	1.201	A	2	A	B
50	T Toluene	-92	16.31	1.241	A	1	A	B
51	T 1,1,2-Trichloroethane	-83	16.00	1.217	Q	2	A	B
52	T 2-Hexanone	43	16.56	1.260	A	3	A	B
53	T Tetrachloroethene	-164	17.52	1.333	A	3	A	B
54	T Dibromochloromethane	-129	16.76	1.275	A	2	A	B
55	T 1,2-Dibromoethane (EDB)	-107	17.04	1.297	Q	2	A	B

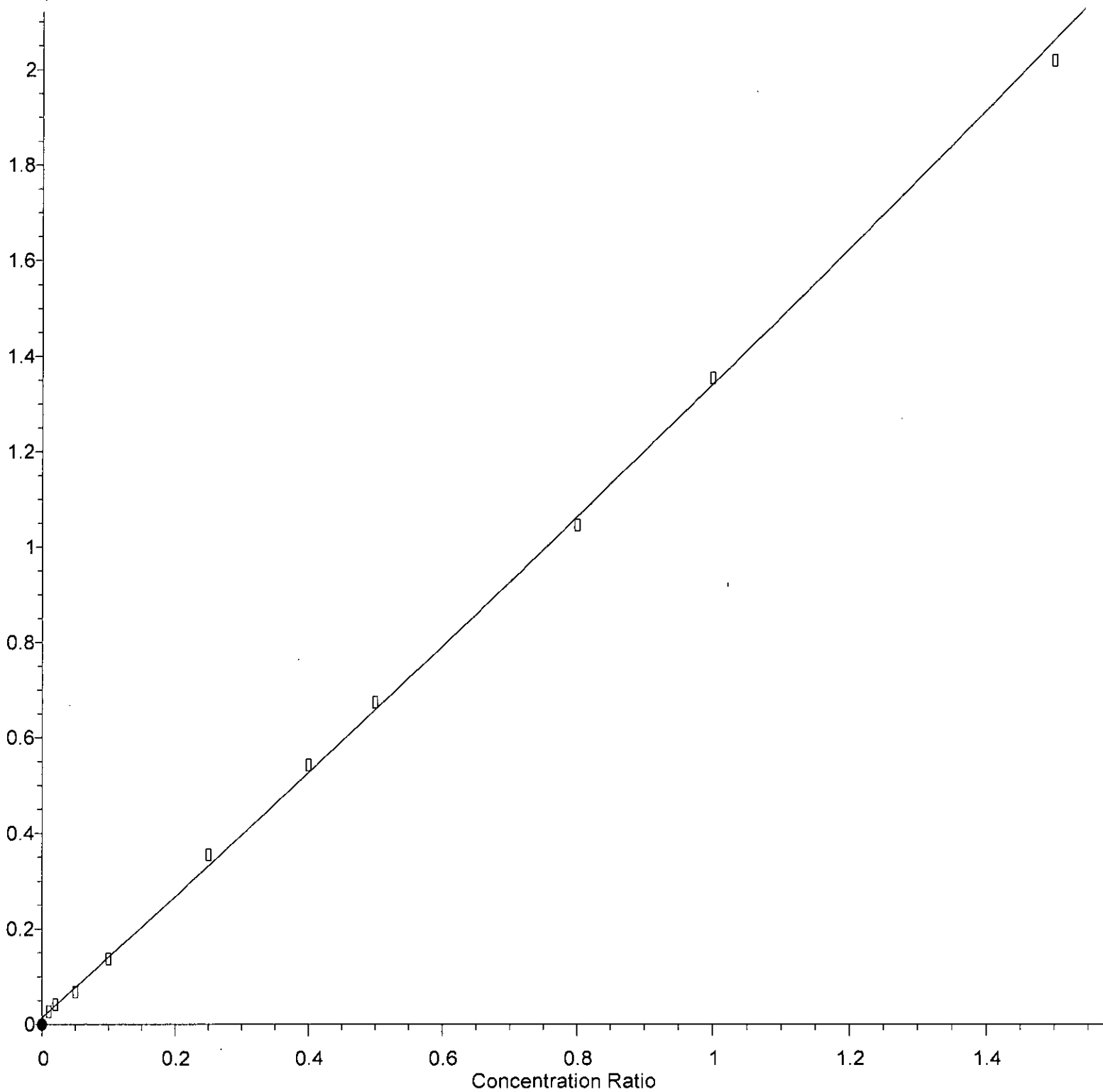
56	I	Chlorobenzene-d5	117	18.13	1.000	A	2	A	B
57	T	Chlorobenzene	112	18.19	1.003	A	2	A	B
58	T	Ethylbenzene	-91	18.53	1.022	Q	1	A	B
59	T	1,1,2,2-Tetrachloroethane	-83	19.13	1.055	Q	2	A	B
60	T	Nonane	43	19.30	1.065	A	3	A	B
61	T	Isopropylbenzene	105	19.70	1.086	A	1	A	B
62	T	2-Chlorotoluene	126	20.17	1.113	A	1	A	B
63	T	Propylbenzene	91	20.19	1.113	A	1	A	B
64	T	4-Ethyltoluene	105	20.32	1.121	A	1	A	B
65	T	m,p-Xylene	-106	18.70	1.032	A	1	A	B
66	T	o-Xylene	-106	19.15	1.056	A	1	A	B
67	T	Styrene	104	19.05	1.051	A	1	A	B
68	T	Bromoform	173	18.80	1.037	A	2	A	B
69	S	4-Bromofluorobenzene	95	19.58	1.080	A	2	A	B
70	T	Benzyl chloride	-91	20.95	1.155	QO	1	A	B
71	T	1,3,5-Trimethylbenzene	105	20.39	1.125	A	1	A	B
72	T	1,2,4-Trimethylbenzene	105	20.80	1.147	Q	1	A	B
73	T	1,3-Dichlorobenzene	-146	20.98	1.157	A	2	A	B
74	T	1,4-Dichlorobenzene	-146	21.05	1.161	A	2	A	B
75	T	1,2-Dichlorobenzene	-146	21.41	1.181	A	2	A	B
76	T	1,2,4-Trichlorobenzene	180	23.64	1.304	QO	2	A	B
77	T	Naphthalene	-128	23.84	1.315	Q	2	A	B
78	T	Hexachlorobutadiene	-225	24.44	1.348	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin  
#Qual = number of qualifiers  
A/H = Area or Height  
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

-----  
1115T015ss7.M Fri Nov 18 12:37:44 2022

Propene

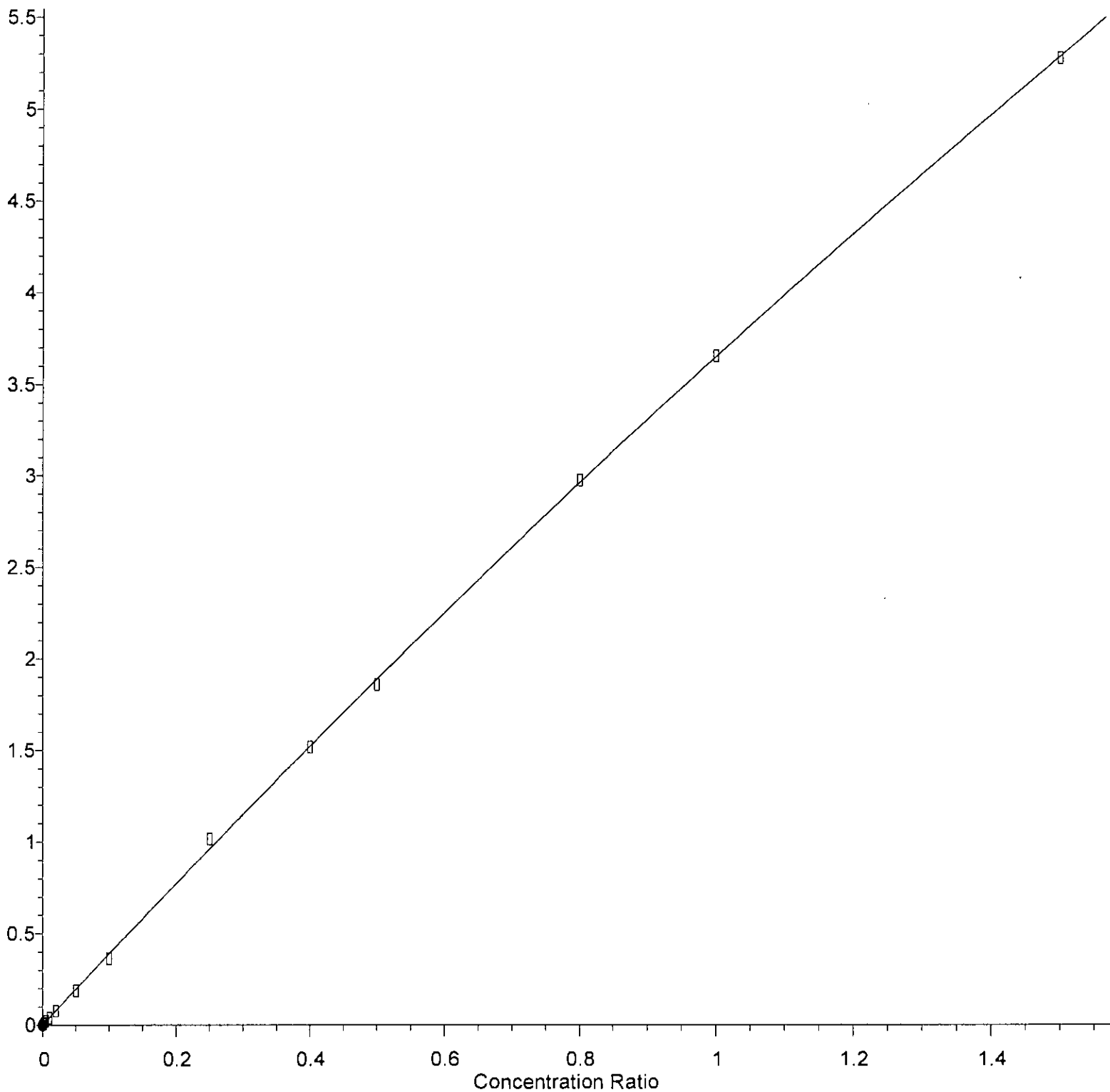
Response Ratio



$R = 7.642e-002 A^2 + 1.250e+000 A + 1.410e-002$   
Coef of Det ( $r^2$ ) = 0.995306 Curve Fit: Quadratic w( $1/a^2$ )  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

# Chloroform

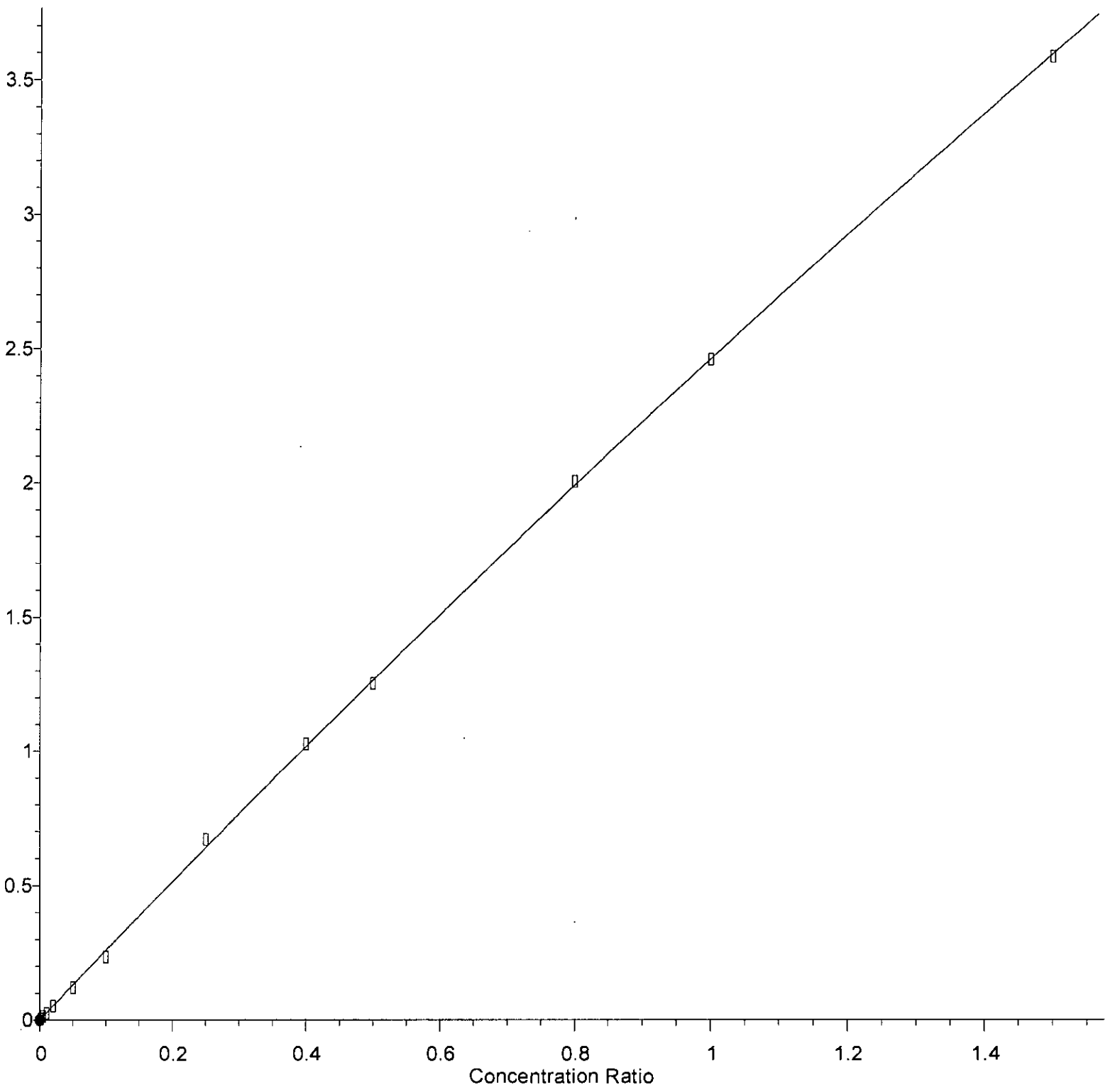
Response Ratio



$R = -2.518e-001 A^2 + 3.901e+000 A + 1.712e-003$   
Coef of Det ( $r^2$ ) = 0.999617 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

1,2-Dichloroethane (EDC)

Response Ratio

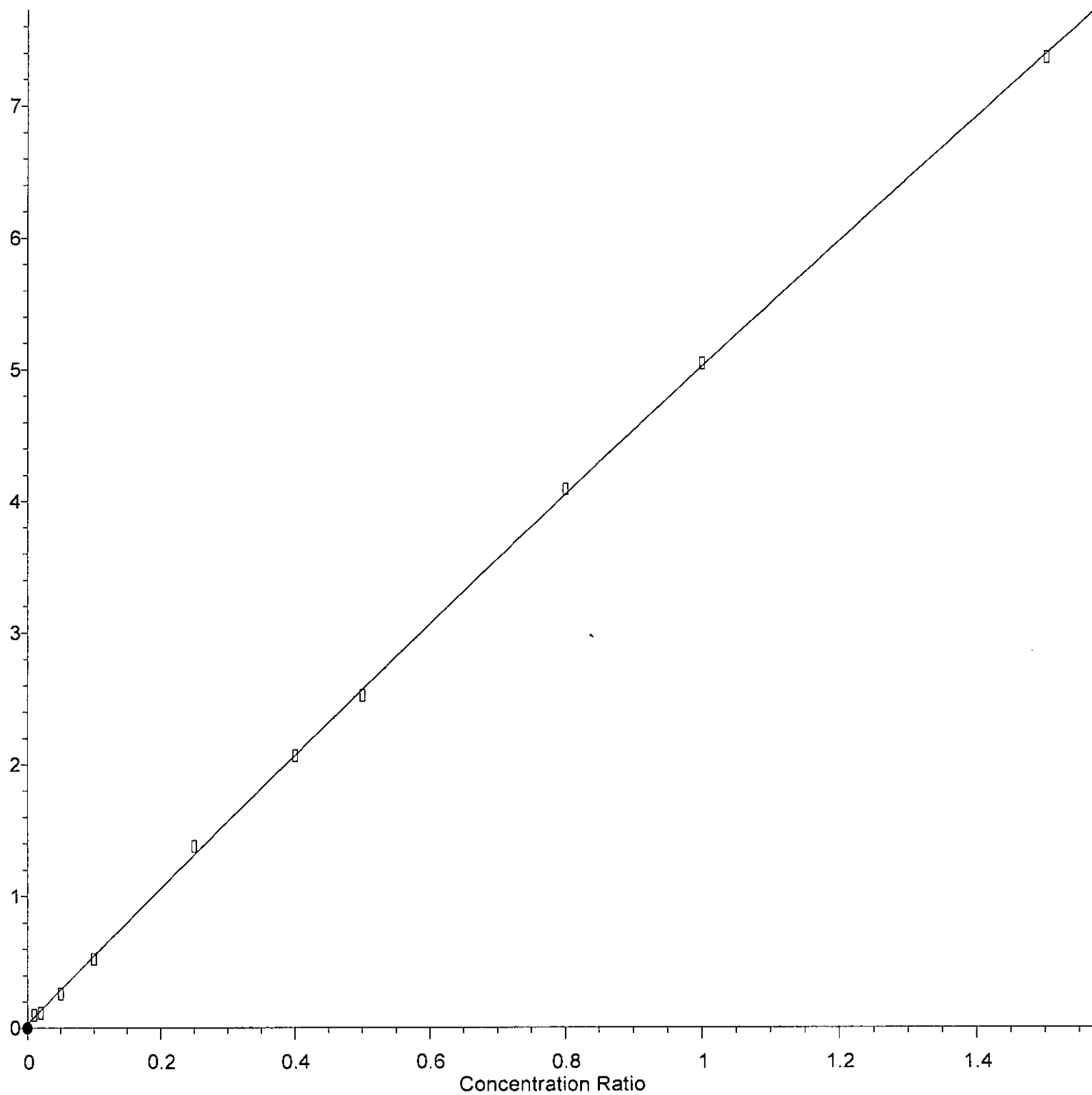


$R = -1.295e-001 A^2 + 2.591e+000 A + 9.788e-004$   
Coef of Det ( $r^2$ ) = 0.999541 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022



# Benzene

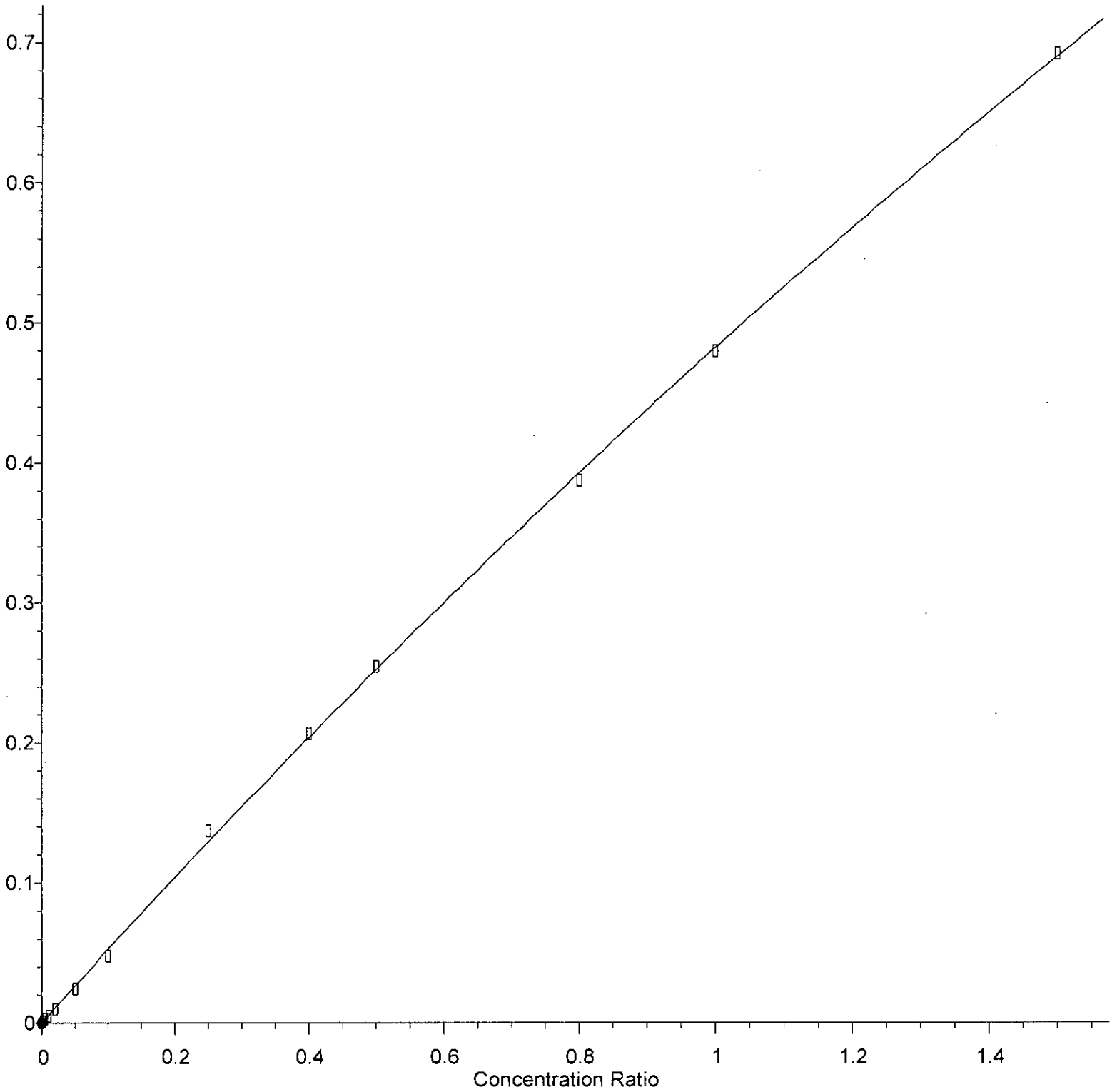
Response Ratio



$R = -1.651e-001 A^2 + 5.153e+000 A + 3.193e-002$   
Coef of Det ( $r^2$ ) = 0.999101 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

1,1,2-Trichloroethane

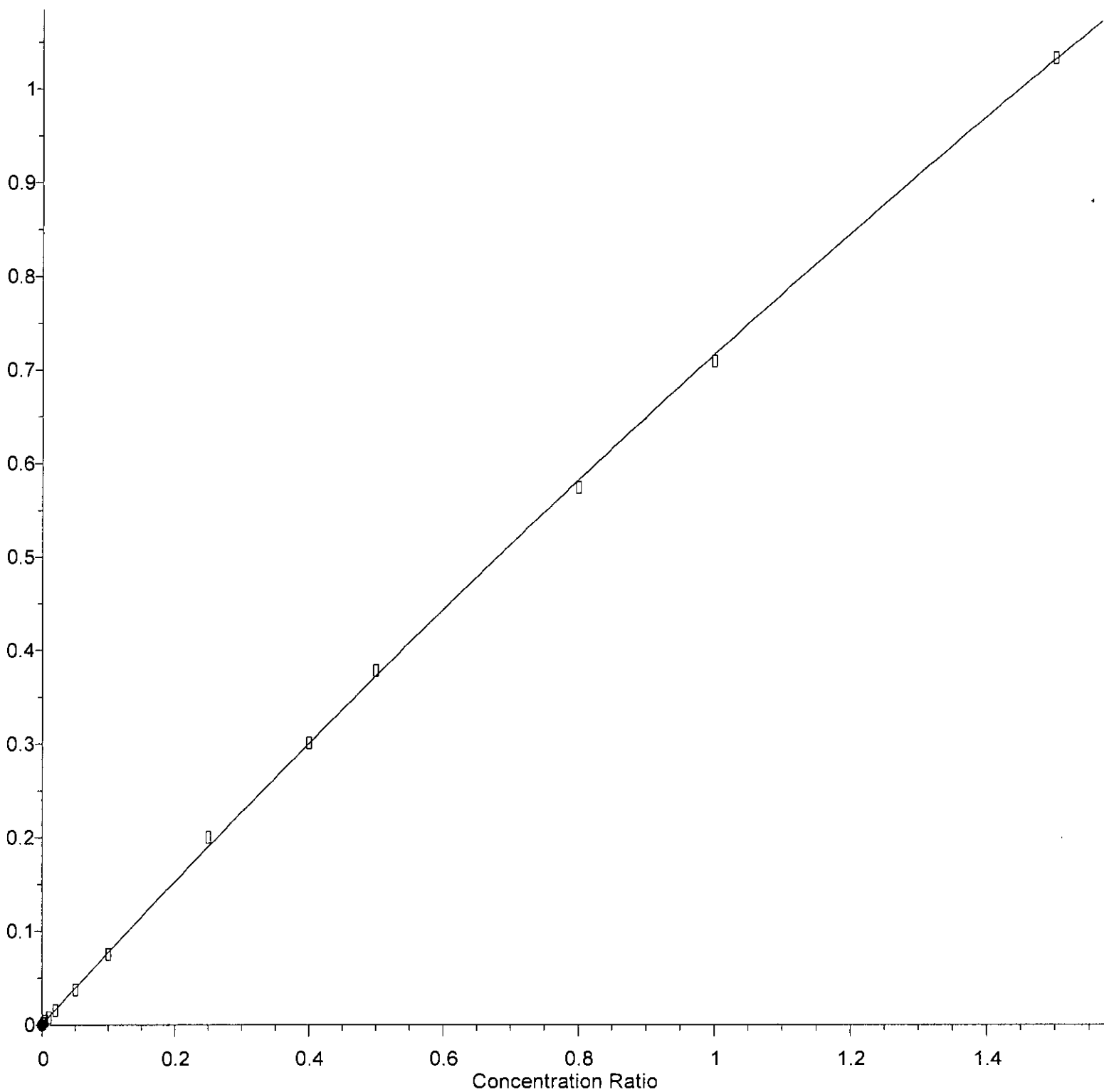
Response Ratio



$R = -4.431e-002 A^2 + 5.260e-001 A + 2.710e-004$   
Coef of Det ( $r^2$ ) = 0.999386 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

1,2-Dibromoethane (EDB)

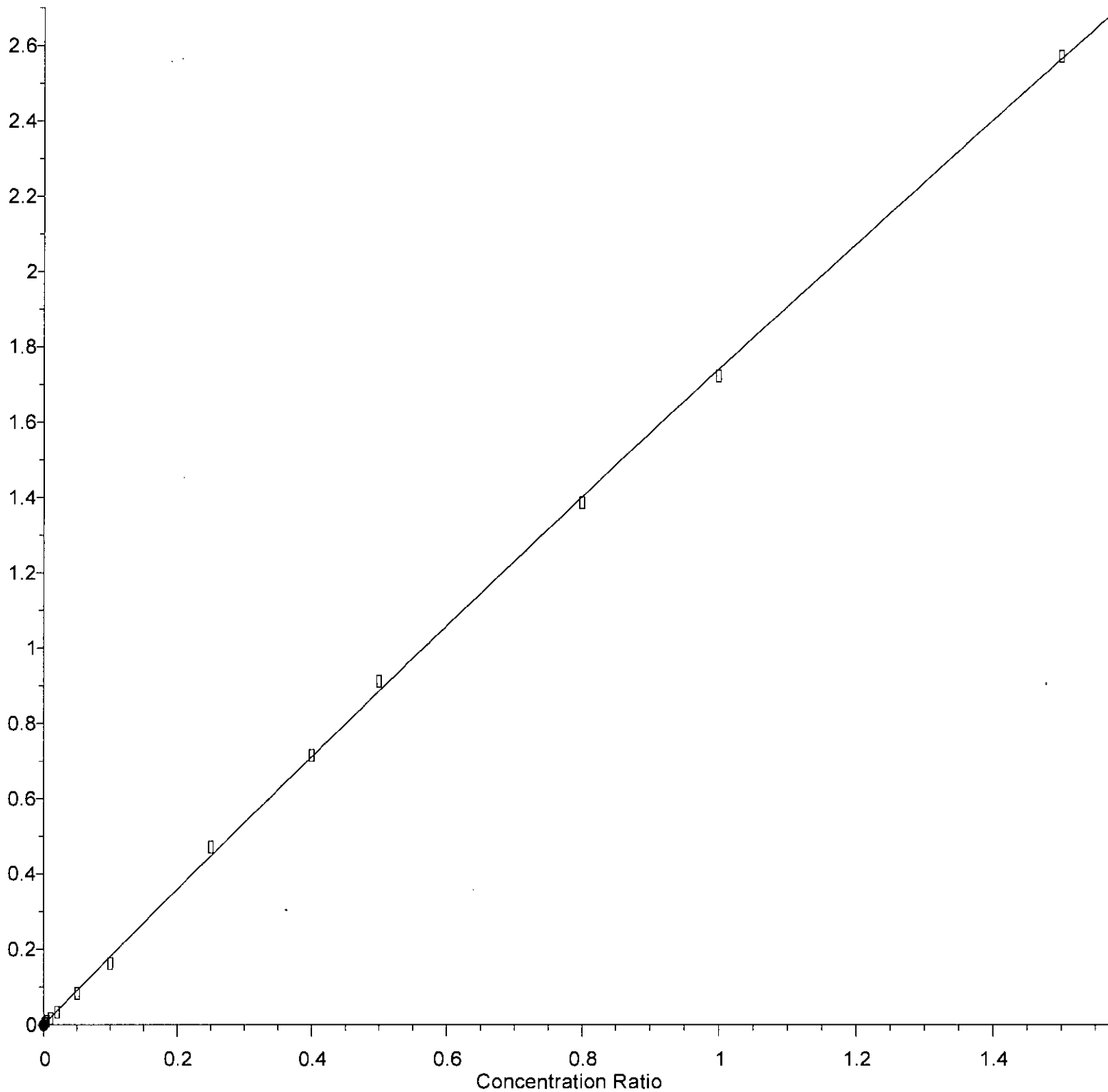
Response Ratio



R = -5.679e-002 A\*A + 7.728e-001 A + 4.918e-004  
Coef of Det (r^2) = 0.998482 Curve Fit: Quadratic w(1/a^2)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

# Ethylbenzene

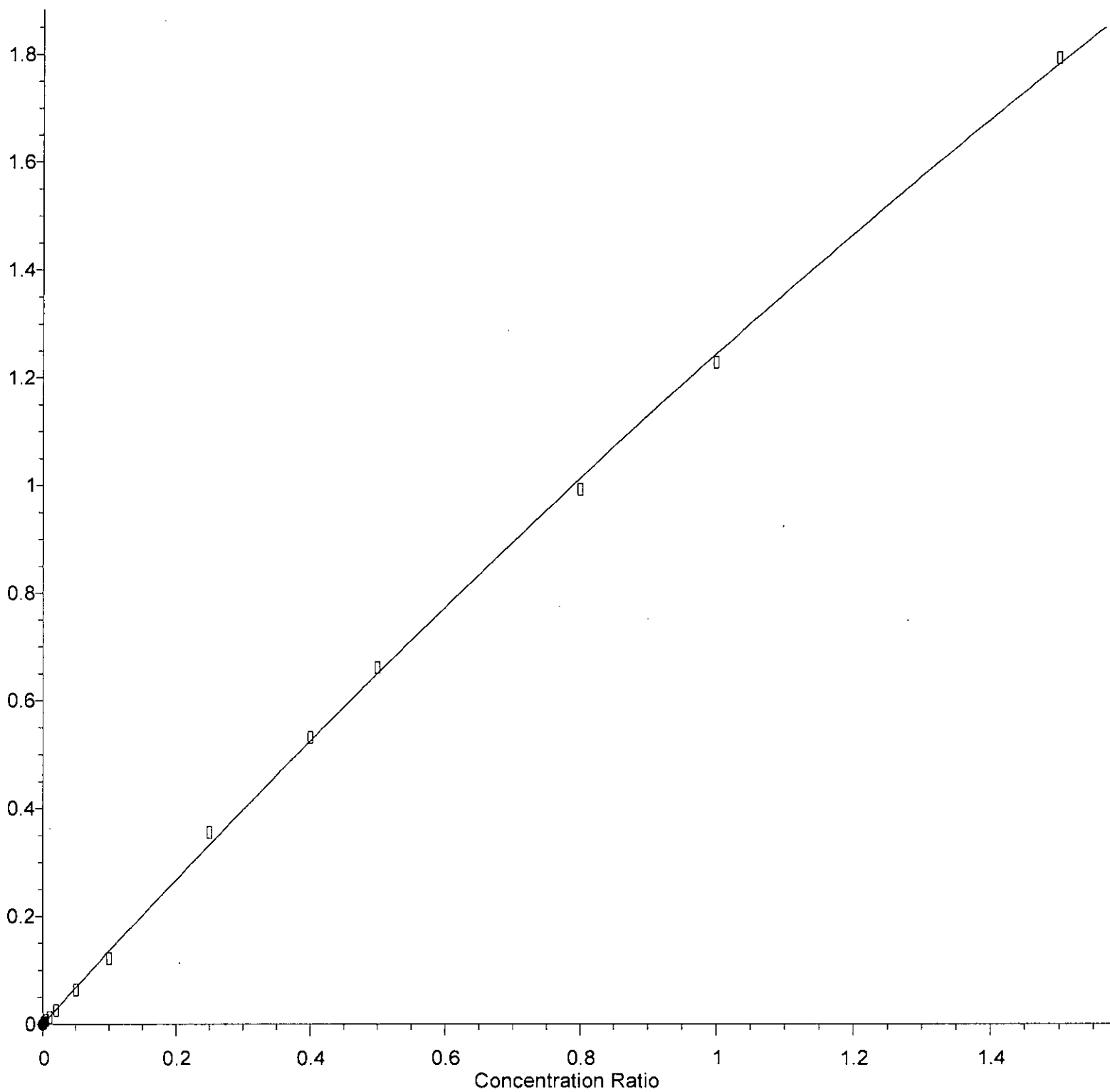
Response Ratio



$R = -5.879e-002 A^2 + 1.797e+000 A + 1.320e-003$   
Coef of Det ( $r^2$ ) = 0.999290 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

1,1,2,2-Tetrachloroethane

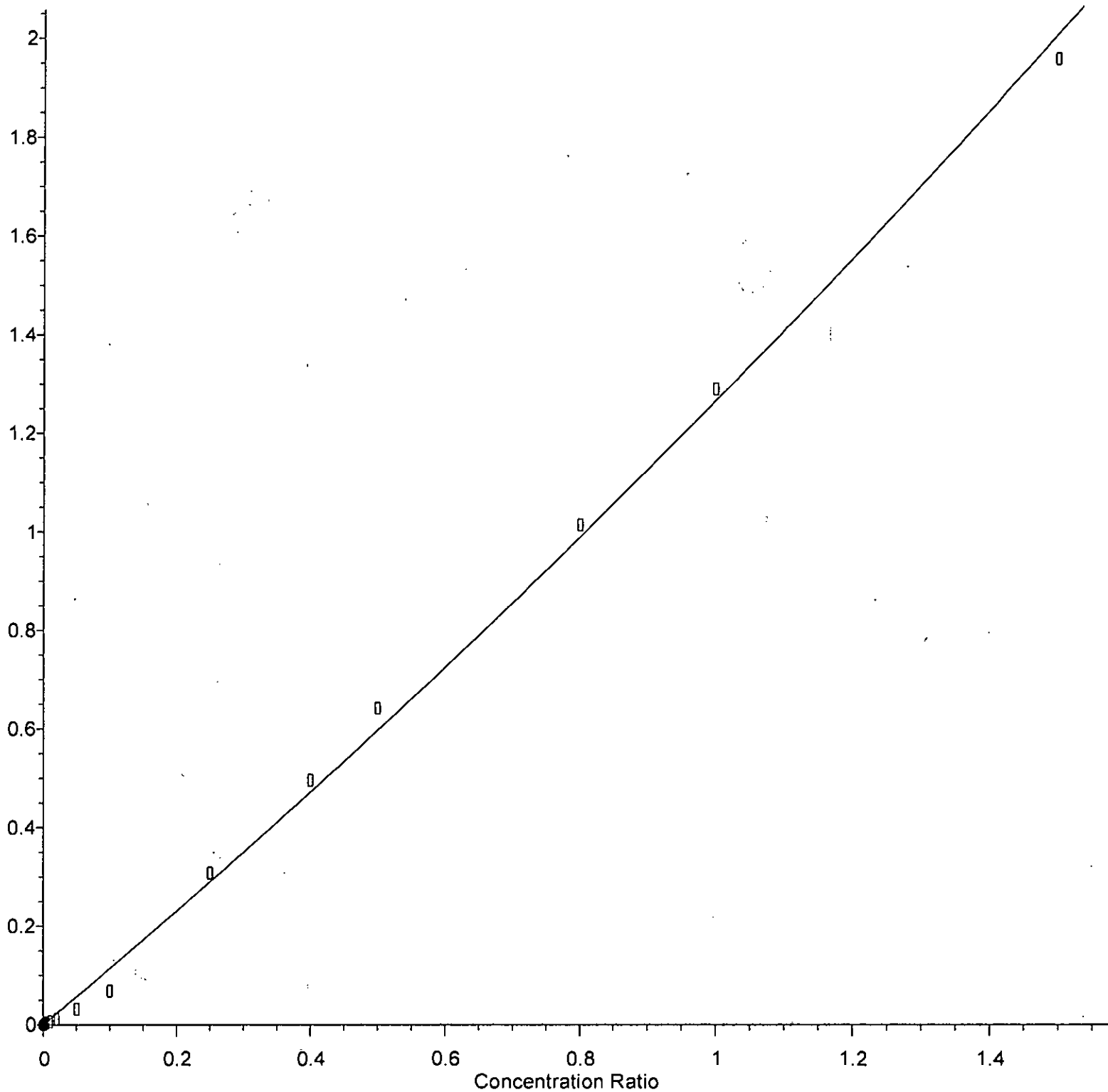
Response Ratio



$R = -1.123e-001 A^2 + 1.355e+000 A + 5.401e-004$   
Coef of Det ( $r^2$ ) = 0.999169 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

Benzyl chloride

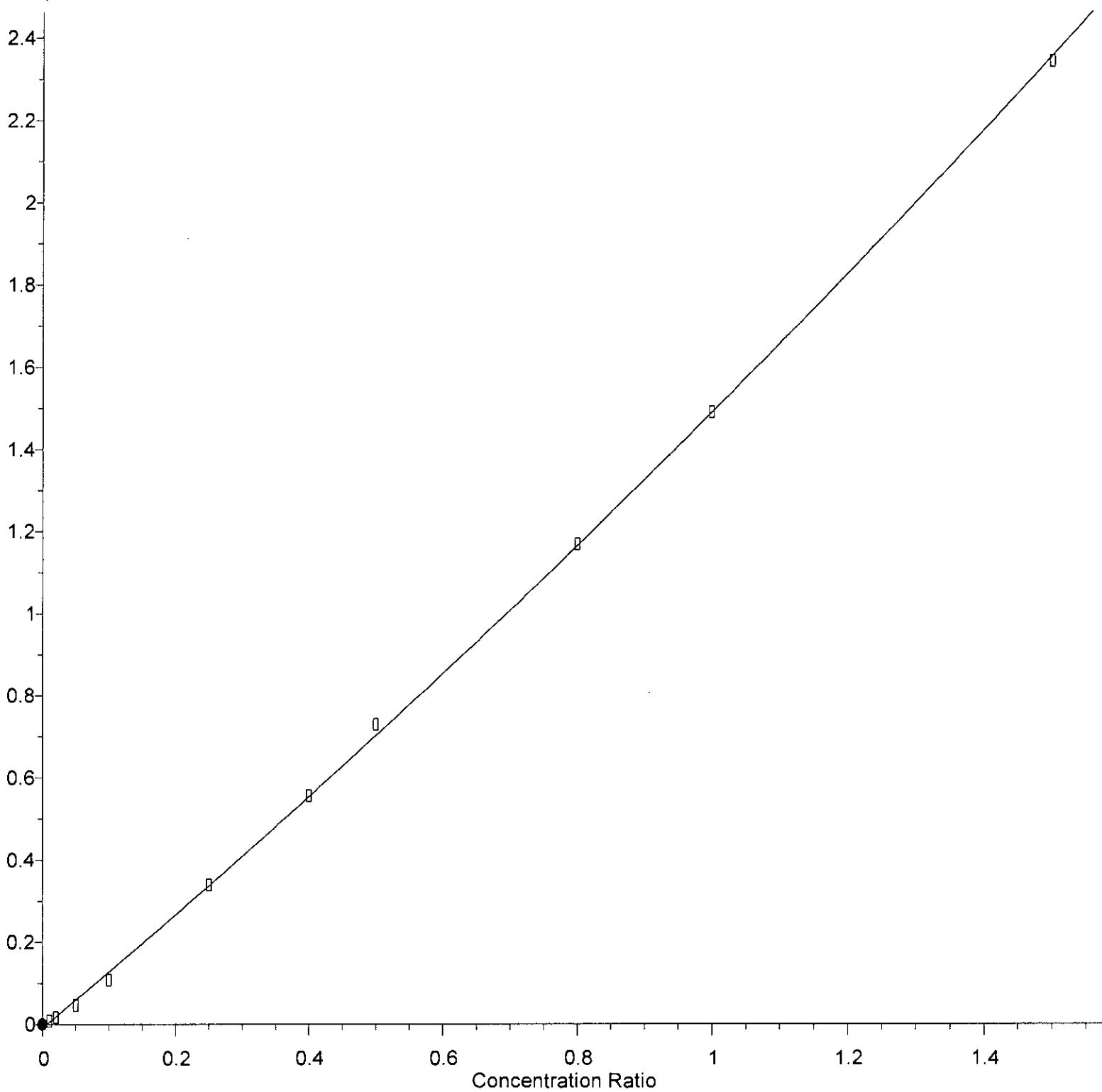
Response Ratio



R = 1.461e-001 A\*A + 1.120e+000 A + 0.000e+000  
Coef of Det (r^2) = 0.993475 Curve Fit: Quad w(1/a)/(0,0)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

1,2,4-Trimethylbenzene

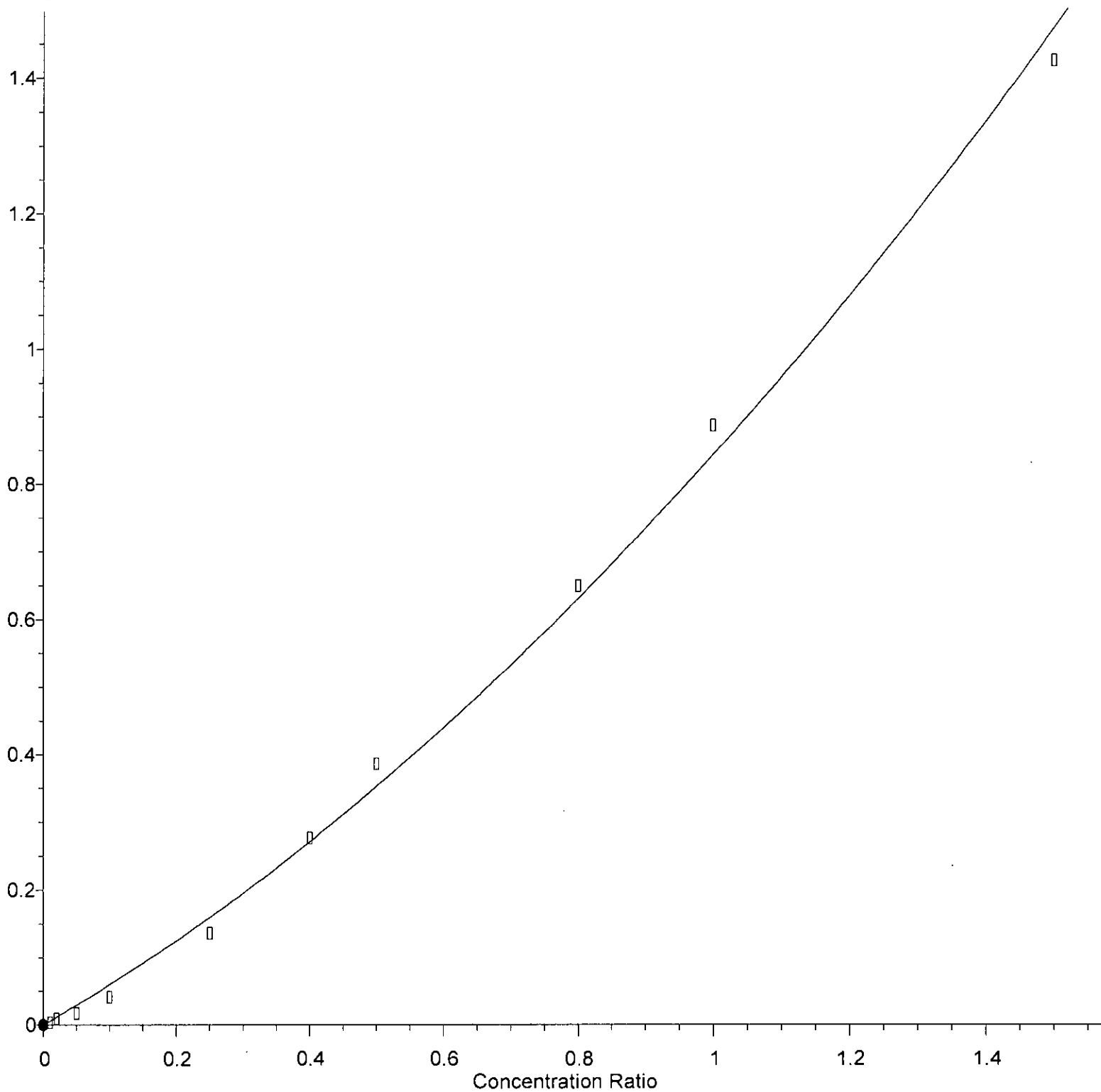
Response Ratio



$R = 1.565e-001 A^2 + 1.342e+000 A - 8.726e-003$   
Coef of Det ( $r^2$ ) = 0.998884 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

1,2,4-Trichlorobenzene

Response Ratio

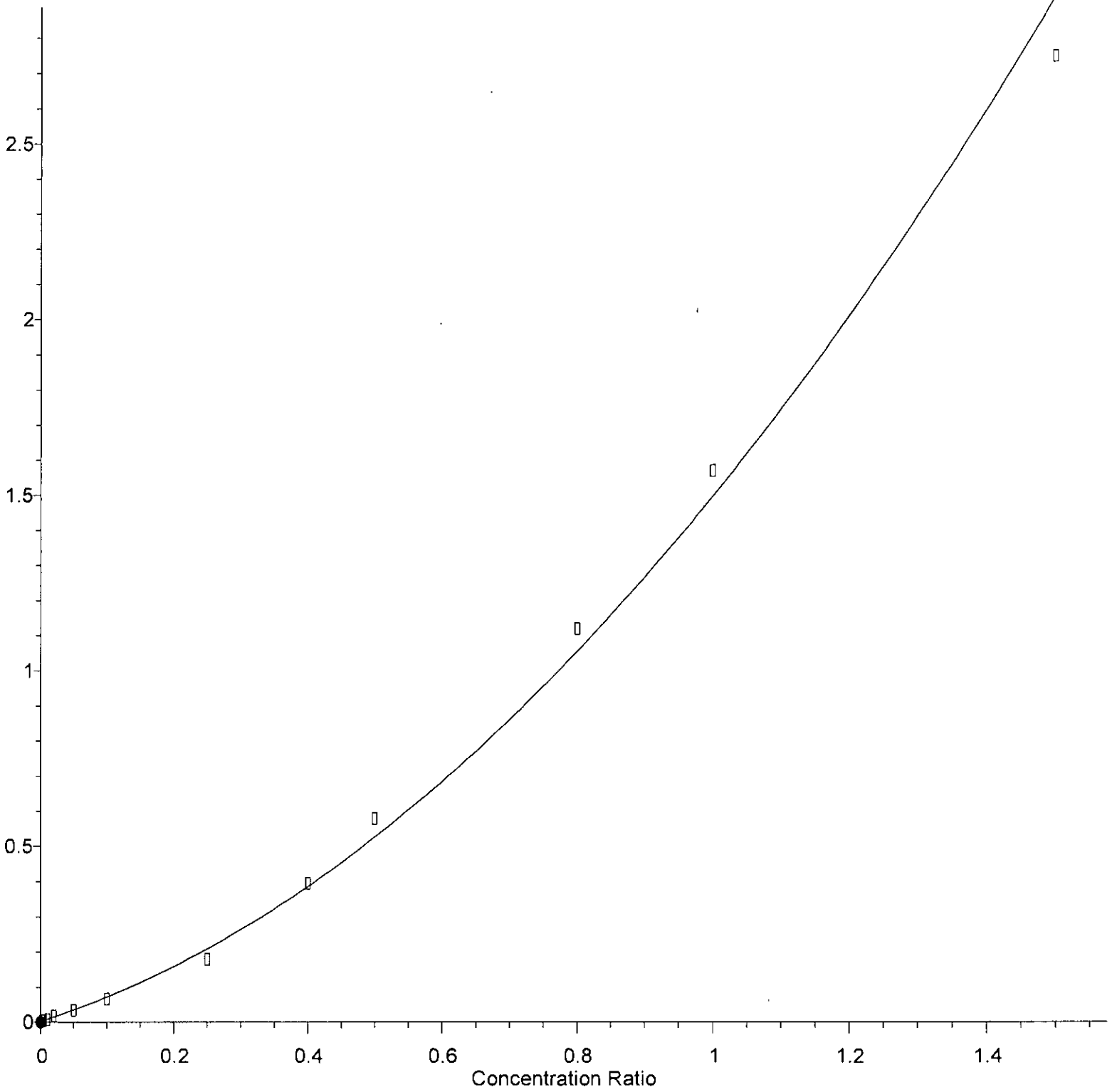


R = 2.779e-001 A\*A + 5.657e-001 A + 0.000e+000  
Coef of Det (r^2) = 0.996017 Curve Fit: Quad w(1/a)/(0,0)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022



# Naphthalene

Response Ratio

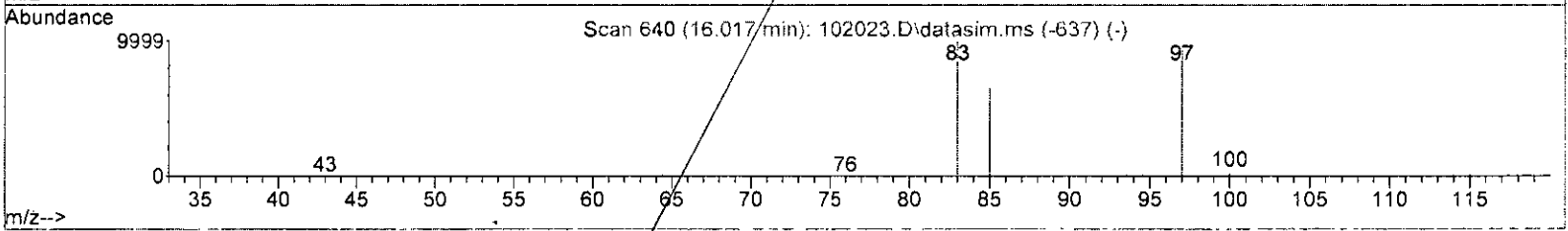
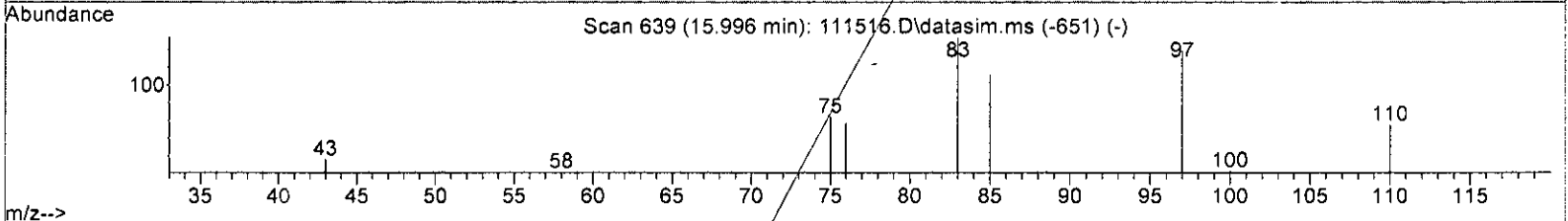
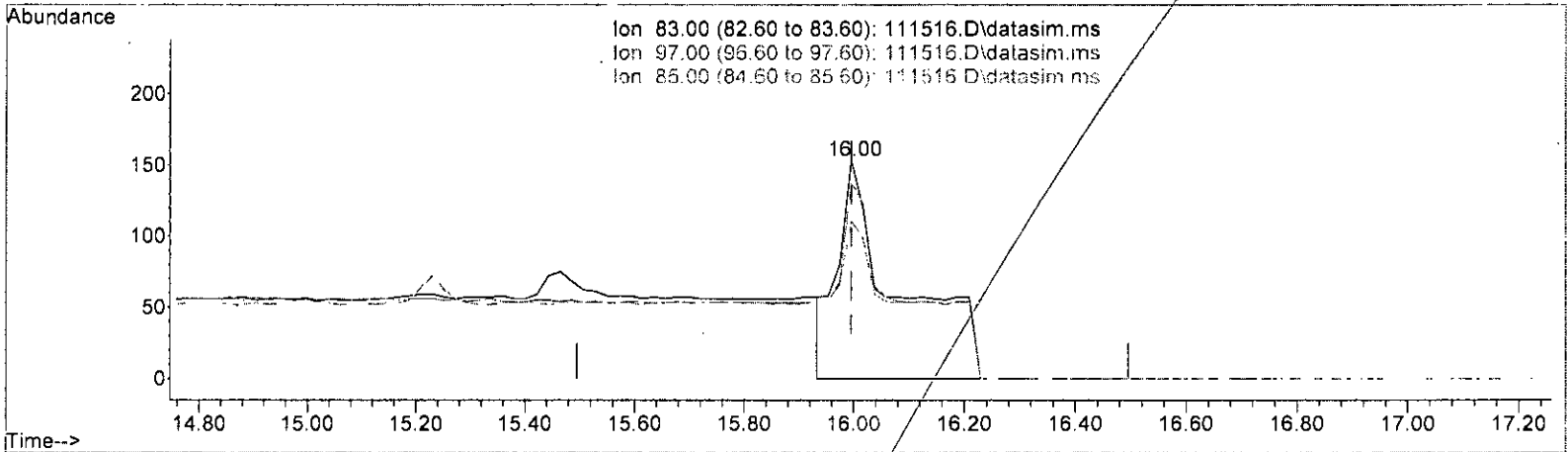


$R = 8.986e-001 A^2 + 5.966e-001 A + 2.531e-003$   
Coef of Det ( $r^2$ ) = 0.993302 Curve Fit: Quadratic w( $1/a^2$ )  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111516.D\data.ms

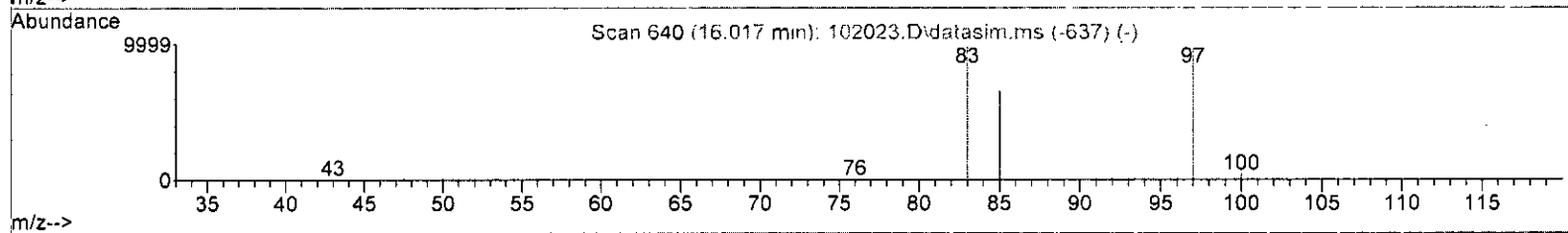
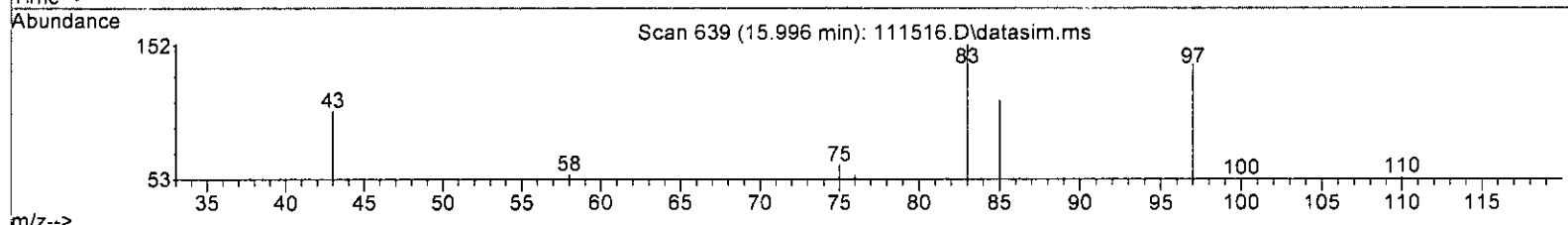
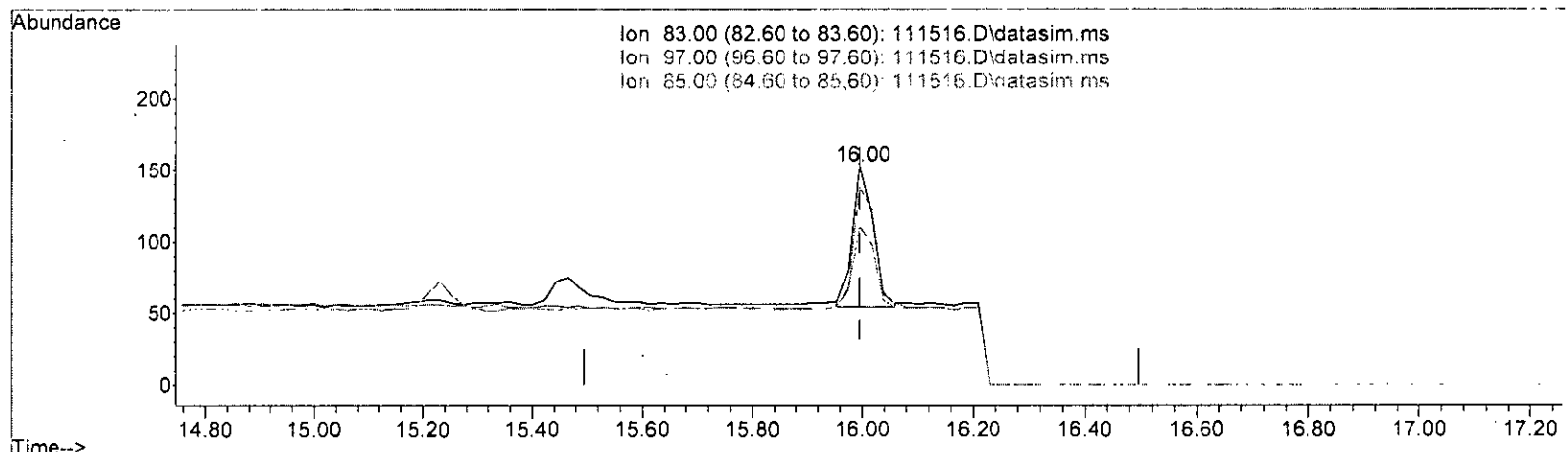
(51) 1,1,2-Trichloroethane (TME)			
15.996min	(-0.000)	0.075	ppbv
response	1204		
Ion	Exp%	Act%	
83.00	100.00	100.00	
97.00	81.80	90.20	
85.00	60.50	72.55	
0.00	0.00	0.00	

*Handwritten signature: u/11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111516.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)			
15.996min (-0.000) 0.012 ppbv m			
response	257		
Ion	Exp%	Act%	
83.00	100.00	100.00	
97.00	81.80	90.20	
85.00	60.50	72.55	
0.00	0.00	0.00	

*Handwritten signature*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	63553	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	284548	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.15	117	252181	10.000	ppbv	0.02

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	158274	9.056	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	90.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
2) Propene	0.00		0	N.D.	d		
3) Dichlorodifluoromethane	0.00		0	N.D.	d		
4) Chloromethane	0.00		0	N.D.	d		
5) F-114	0.00		0	N.D.	d		
6) Vinyl chloride	0.00		0	N.D.	d		
7) 1,3-Butadiene	0.00		0	N.D.	d		
8) Butane	0.00		0	N.D.	d		
9) Bromomethane	0.00		0	N.D.	d		
10) Chloroethane	0.00		0	N.D.	d		
11) Vinyl bromide	0.00		0	N.D.	d		
12) Ethanol	0.00		0	N.D.	d		
13) Acrolein	0.00		0	N.D.	d		
14) Pentane	0.00		0	N.D.	d		
15) Trichlorofluoromethane	0.00		0	N.D.	d		
16) Acetone	0.00		0	N.D.	d		
17) 2-Propanol	0.00		0	N.D.	d		
18) 1,1-Dichloroethene	0.00		0	N.D.	d		
19) trans-1,2-Dichloroethene	0.00		0	N.D.	d		
20) Methylene chloride	0.00		0	N.D.	d		
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
22) 3-Chloropropene	0.00		0	N.D.	d		
23) CFC-113	0.00		0	N.D.	d		
24) Carbon disulfide	0.00		0	N.D.	d		
25) Methyl t-butyl ether (...)	0.00		0	N.D.	d		
26) Vinyl acetate	0.00		0	N.D.	d		
27) 1,1-Dichloroethane	0.00		0	N.D.	d		
28) cis-1,2-Dichloroethene	0.00		0	N.D.	d		
29) Hexane	0.00		0	N.D.	d		
30] Chloroform	10.08	83	384	0.011	ppbv	88	
31) Ethyl acetate	0.00		0	N.D.	d		
32) Tetrahydrofuran	0.00		0	N.D.	d		
33) 2-Butanone (MEK)	0.00		0	N.D.	d		
34] 1,2-Dichloroethane (EDC)	11.34	62	260	0.012	ppbv	97	
35) 1,1,1-Trichloroethane	0.00		0	N.D.	d		
36) Carbon tetrachloride	0.00		0	N.D.	d		
37) Benzene	0.00		0	N.D.	d		
38) Cyclohexane	0.00		0	N.D.	d		
40) 1,2-Dichloropropane	0.00		0	N.D.	d		

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

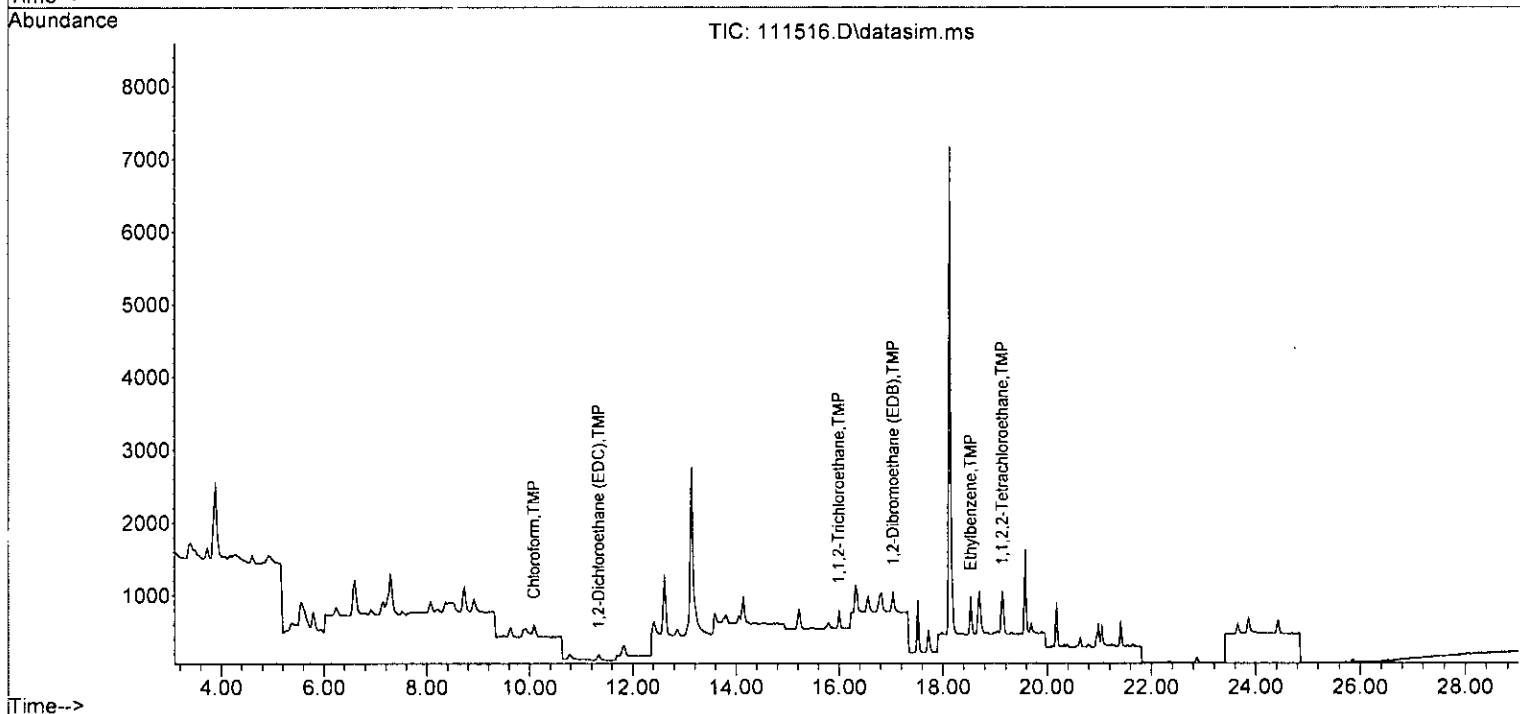
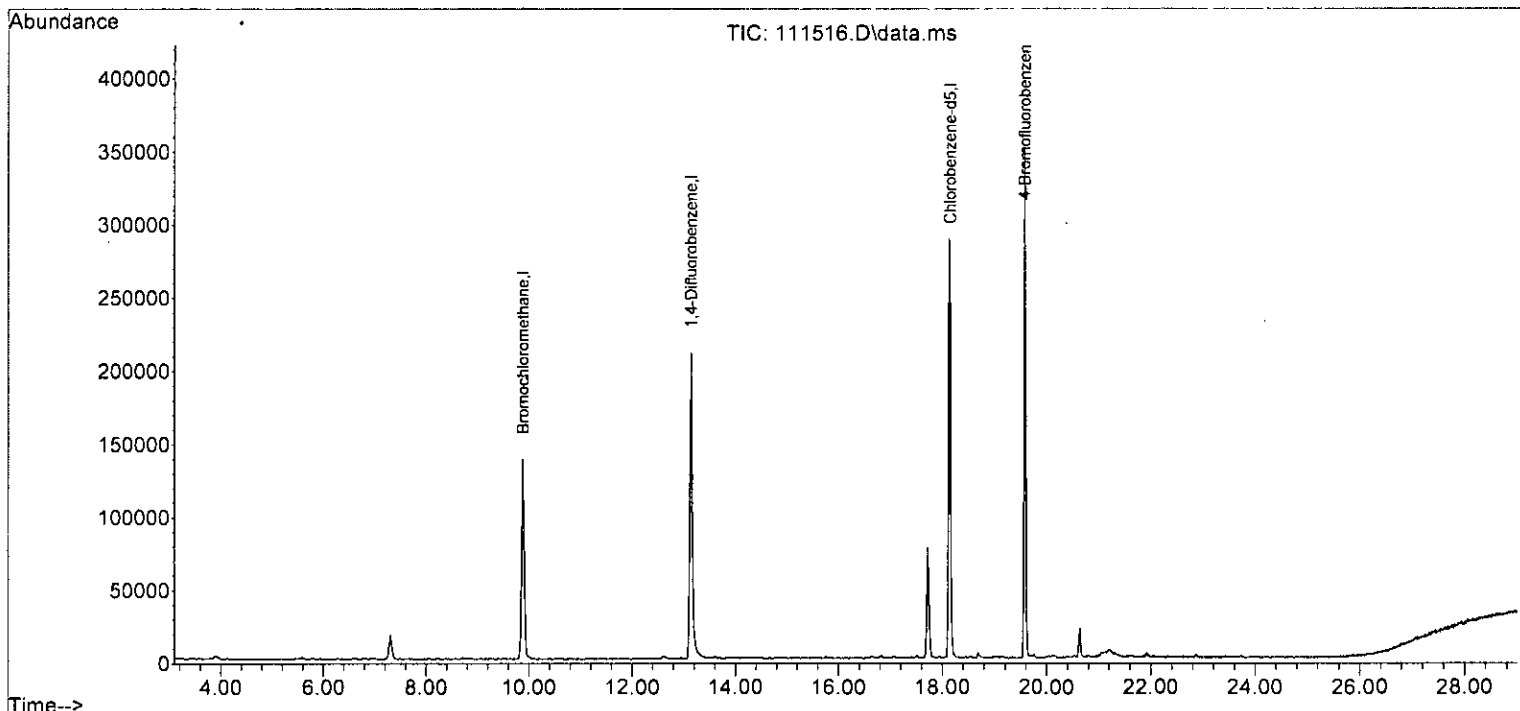
Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0	N.D.	d	
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45) Bromodichloromethane	0.00		0	N.D.	d	
46) Trichloroethene	0.00		0	N.D.	d	
47) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
48) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
49) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
50) Toluene	0.00		0	N.D.	d	
51] 1,1,2-Trichloroethane	16.00	83	257m	0.012	ppbv	
52) 2-Hexanone	0.00		0	N.D.	d	
53) Tetrachloroethene	0.00		0	N.D.	d	
54) Dibromochloromethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	361	0.010	ppbv	98
57) Chlorobenzene	0.00		0	N.D.	d	
58] Ethylbenzene	18.53	91	894	0.012	ppbv	97
59] 1,1,2,2-Tetrachloroethane	19.13	83	547	0.012	ppbv	94
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	0.00		0	N.D.	d	
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63) Propylbenzene	0.00		0	N.D.	d	
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65) m,p-Xylene	0.00		0	N.D.	d	
66) o-Xylene	0.00		0	N.D.	d	
67) Styrene	0.00		0	N.D.	d	
68) Bromoform	0.00		0	N.D.	d	
70) Benzyl chloride	20.95	91	269	N.D.	d	
71) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
72) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
73) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
74) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
75) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
77) Naphthalene	0.00		0	N.D.	d	
78) Hexachlorobutadiene	0.00		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 AL5 Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	-1.000	0.000	0.0	0	-3.41#
3 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-3.48#
4 TMP Chloromethane	-1.000	0.000	0.0	0	-3.73#
5 TMP F-114	-1.000	0.000	0.0	0	-3.88#
6 TMP Vinyl chloride	-1.000	0.000	0.0	0	-4.09#
7 TMP 1,3-Butadiene	-1.000	0.000	0.0	0	-4.29#
8 TMP Butane	-1.000	0.000	0.0	0	-4.32#
9 TMP Bromomethane	-1.000	0.000	0.0	0	-4.60#
10 TMP Chloroethane	-1.000	0.000	0.0	0	-4.84#
11 TMP Vinyl bromide	-1.000	0.000	0.0	0	-5.32#
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.96#
13 TMP Acrolein	-1.000	0.000	0.0	0	-5.42#
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-5.84#
16 TMP Acetone	-1.000	0.000	0.0	0	-5.57#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	-1.000	0.000	0.0	0	-6.63#
19 TMP trans-1,2-Dichloroethene	-1.000	0.000	0.0	0	-8.10#
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.80#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	-1.000	0.000	0.0	0	-6.94#
23 TMP CFC-113	-1.000	0.000	0.0	0	-7.15#
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-8.43#
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.54#
27 TMP 1,1-Dichloroethane	-1.000	0.000	0.0	0	-8.36#
28 TMP cis-1,2-Dichloroethene	-1.000	0.000	0.0	0	-9.64#
29 TMP Hexane	-1.000	0.000	0.0	0	-10.01#
30 TMP Chloroform	0.010	0.011	-10.0	100	-0.02
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.92#
32 TMP Tetrahydrofuran	-1.000	0.000	0.0	0	-10.75#
33 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-8.91#
34 TMP 1,2-Dichloroethane (EDC)	0.010	0.012	-20.0	100	0.00
35 TMP 1,1,1-Trichloroethane	-1.000	0.000	0.0	0	-11.82#
36 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-12.86#
37 TMP Benzene	-1.000	0.000	0.0	0	-12.61#
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.07#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.010	0.000	100.0#	0	-13.80#
41 TMP 1,4-Dioxane	-1.000	0.000	0.0	0	-14.09#
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.24#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.56#
45 TMP Bromodichloromethane	0.010	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	0.010	0.000	100.0#	0	-14.14#
47 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.20#
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.23#
49 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.78#
50 TMP Toluene	-1.000	0.000	0.0	0	-16.31#
51 TMP 1,1,2-Trichloroethane	0.010	0.012	-20.0	101	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	-1.000	0.000	0.0	0	-17.52#
54 TMP Dibromochloromethane	0.010	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.010	0.010	0.0	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.02
57 TMP Chlorobenzene	-1.000	0.000	0.0	0	-18.19#
58 TMP Ethylbenzene	0.010	0.012	-20.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.010	0.012	-20.0	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.30#
61 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-19.70#
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	-1.000	0.000	0.0	0	-20.19#
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.32#
65 TMP m,p-Xylene	-1.000	0.000	0.0	0	-18.70#
66 TMP o-Xylene	-1.000	0.000	0.0	0	-19.15#
67 TMP Styrene	-1.000	0.000	0.0	0	-19.05#
68 TMP Bromoform	-1.000	0.000	0.0	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.056	9.4	100	0.00
70 TMP Benzyl chloride	0.010	0.010	0.0	100	0.00
71 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-20.39#
72 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-20.80#
73 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-20.98#
74 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-21.05#
75 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-21.41#
76 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-23.64#
77 TMP Naphthalene	-1.000	0.000	0.0	0	-23.84#
78 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-24.44#

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	0.000	100.0#	0#	-3.41#
3 TMP Dichlorodifluoromethane	4.123	0.000#	100.0#	0#	-3.48#
4 TMP Chloromethane	1.882	0.000#	100.0#	0#	-3.73#
5 TMP F-114	4.217	0.000	100.0#	0#	-3.88#
6 TMP Vinyl chloride	1.851	0.000#	100.0#	0#	-4.09#
7 TMP 1,3-Butadiene	1.216	0.000	100.0#	0#	-4.29#
8 TMP Butane	2.183	0.000	100.0#	0#	-4.32#
9 TMP Bromomethane	1.847	0.000#	100.0#	0#	-4.60#
10 TMP Chloroethane	0.655	0.000#	100.0#	0#	-4.84#
11 TMP Vinyl bromide	1.609	0.000	100.0#	0#	-5.32#
12 TMP Ethanol	0.663	0.000	100.0#	0#	-4.96#
13 TMP Acrolein	0.729	0.000	100.0#	0#	-5.42#
14 TMP Pentane	2.461	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.781	0.000#	100.0#	0#	-5.84#
16 TMP Acetone	0.710	0.000#	100.0#	0#	-5.57#
17 TMP 2-Propanol	3.096	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.645	0.000#	100.0#	0#	-6.63#
19 TMP trans-1,2-Dichloroethene	1.598	0.000	100.0#	0#	-8.10#
20 TMP Methylene chloride	1.479	0.000#	100.0#	0#	-6.80#
21 TMP t-Butyl alcohol (TBA)	2.668	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.056	0.000	100.0#	0#	-6.94#
23 TMP CFC-113	3.469	0.000	100.0#	0#	-7.15#
24 TMP Carbon disulfide	5.167	0.000	100.0#	0#	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	3.434	0.000#	100.0#	0#	-8.43#
26 TMP Vinyl acetate	3.801	0.000#	100.0#	0#	-8.54#
27 TMP 1,1-Dichloroethane	3.342	0.000#	100.0#	0#	-8.36#
28 TMP cis-1,2-Dichloroethene	1.690	0.000#	100.0#	0#	-9.64#
29 TMP Hexane	2.068	0.000	100.0#	0#	-10.01#
30 TMP Chloroform	4.060	6.042	-48.8#	100	-0.02
31 TMP Ethyl acetate	3.789	0.000	100.0#	0#	-9.92#
32 TMP Tetrahydrofuran	1.809	0.000	100.0#	0#	-10.75#
33 TMP 2-Butanone (MEK)	0.619	0.000	100.0#	0#	-8.91#
34 TMP 1,2-Dichloroethane (EDC)	2.687	4.091	-52.3#	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	0.000#	100.0#	0#	-11.82#
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	0.000#	100.0#	0#	-12.61#
38 TMP Cyclohexane	1.367	0.000	100.0#	0#	-13.07#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.000	100.0#	0#	-13.80#
41 TMP 1,4-Dioxane	0.230	0.000	100.0#	0#	-14.09#
42 TMP 2,2,4-Trimethylpentane	1.598	0.000	100.0#	0#	-14.24#
43 TMP Methyl methacrylate	0.485	0.000	100.0#	0#	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.000	100.0#	0#	-14.56#
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.000	100.0#	0#	-14.14#
47 TMP cis-1,3-Dichloropropene	0.599	0.000	100.0#	0#	-15.20#
48 TMP 4-Methyl-2-pentanone	0.044	0.000	100.0#	0#	-15.23#
49 TMP trans-1,3-Dichloropropene	0.563	0.000	100.0#	0#	-15.78#
50 TMP Toluene	0.707	0.000	100.0#	0#	-16.31#
51 TMP 1,1,2-Trichloroethane	0.550	0.903	-64.2#	101	0.00
52 TMP 2-Hexanone	0.846	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.490	0.000#	100.0#	0#	-17.52#
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	1.269	-54.0#	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.02
57 TMP Chlorobenzene	1.101	0.000#	100.0#	0#	-18.19#
58 TMP Ethylbenzene	1.968	3.545	-80.1#	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	2.169	-55.6#	100	0.00
60 TMP Nonane	0.981	0.000	100.0#	0#	-19.30#
61 TMP Isopropylbenzene	1.792	0.000	100.0#	0#	-19.70#
62 TMP 2-Chlorotoluene	0.448	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.292	0.000	100.0#	0#	-20.19#
64 TMP 4-Ethyltoluene	1.611	0.000	100.0#	0#	-20.32#
65 TMP m,p-Xylene	0.633	0.000#	100.0#	0#	-18.70#
66 TMP o-Xylene	0.615	0.000#	100.0#	0#	-19.15#
67 TMP Styrene	0.819	0.000#	100.0#	0#	-19.05#
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.628	9.4	100	0.00
70 TMP Benzyl chloride	0.987	1.067	-8.1	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	0.000	100.0#	0#	-20.39#
72 TMP 1,2,4-Trimethylbenzene	1.247	0.000	100.0#	0#	-20.80#
73 TMP 1,3-Dichlorobenzene	1.012	0.000	100.0#	0#	-20.98#
74 TMP 1,4-Dichlorobenzene	0.947	0.000	100.0#	0#	-21.05#
75 TMP 1,2-Dichlorobenzene	1.024	0.000	100.0#	0#	-21.41#
76 TMP 1,2,4-Trichlorobenzene	0.626	0.000	100.0#	0#	-23.64#
77 TMP Naphthalene	1.132	0.000	100.0#	0#	-23.84#
78 TMP Hexachlorobutadiene	1.045	0.000	100.0#	0#	-24.44#

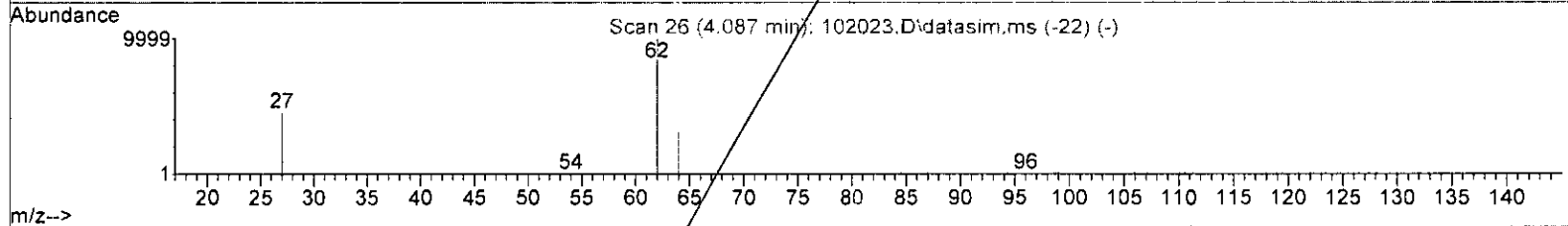
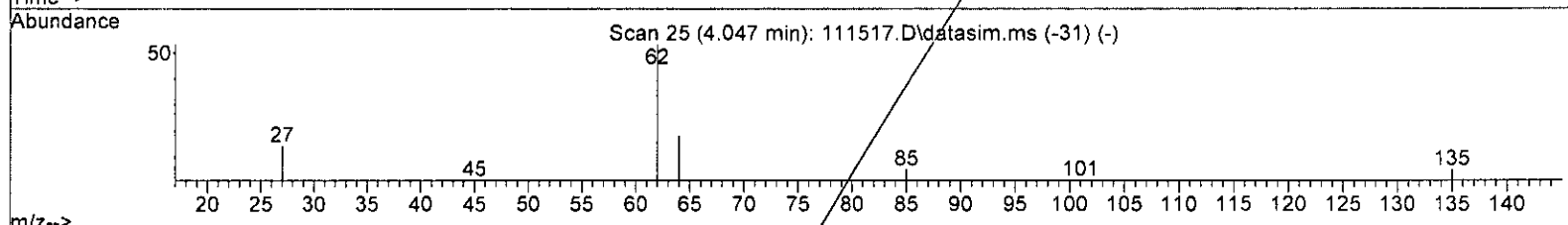
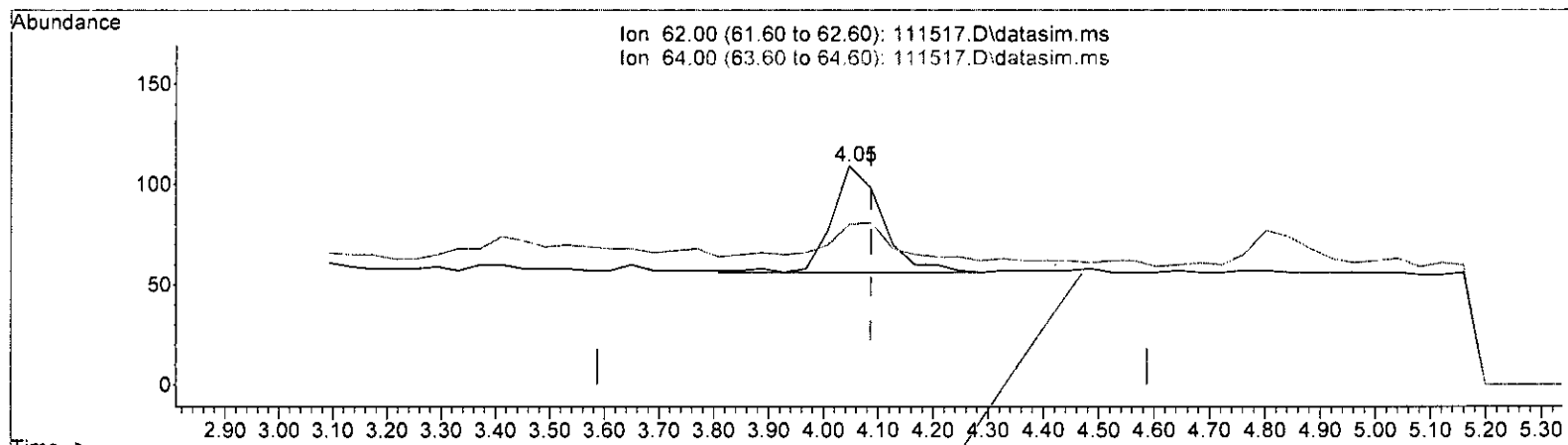
(#) = Out of Range

SPCC's out = 25 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(6) Vinyl chloride (TMP)  
 4.047min (-0.040) 0.030 ppbv  
 response 343

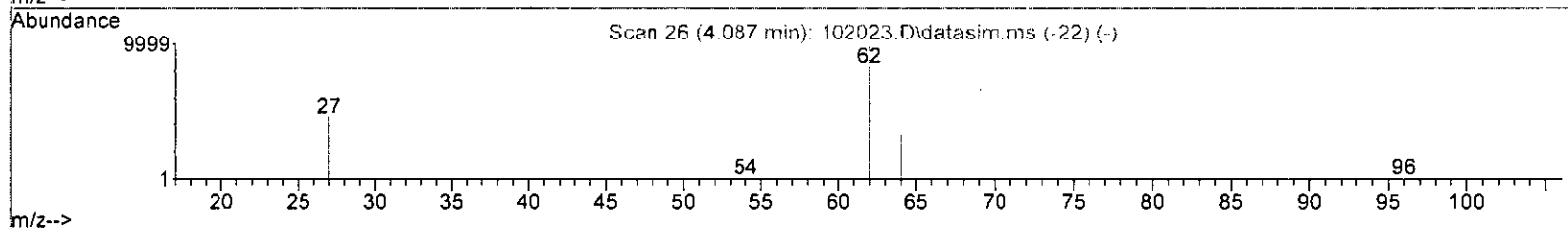
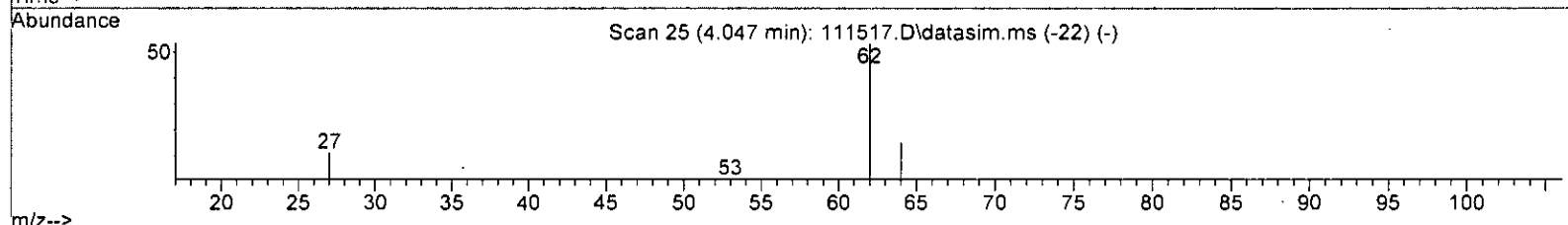
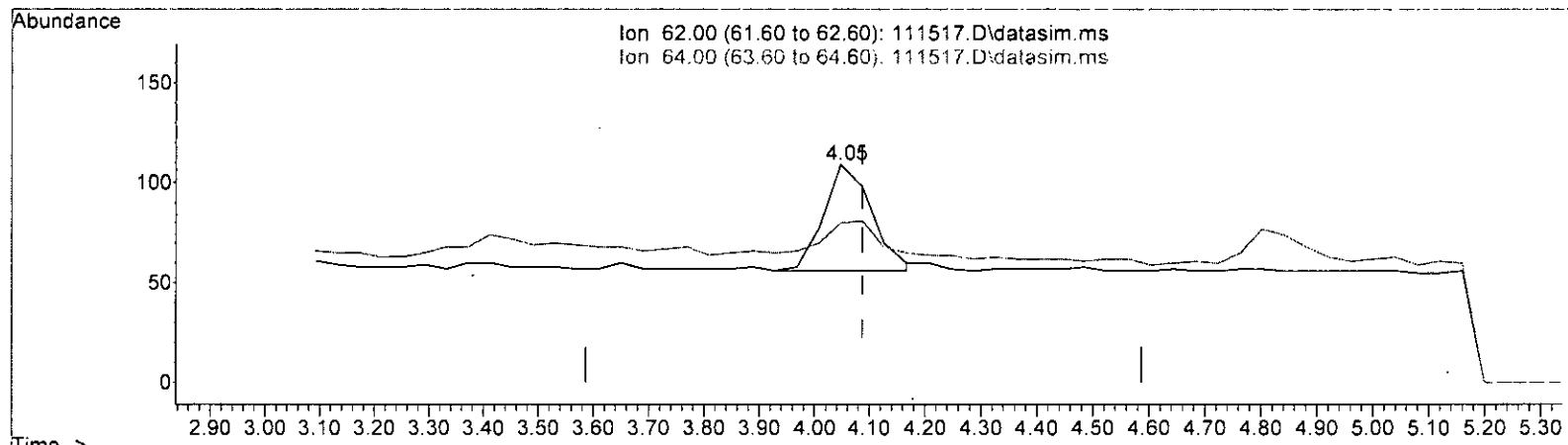
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	31.50	33.96
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: W/12/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO1SDC.M



TIC: 111517.D\data.ms

(6) Vinyl chloride (TMP)

4.047min (-0.040) 0.028 ppbv m

response 324

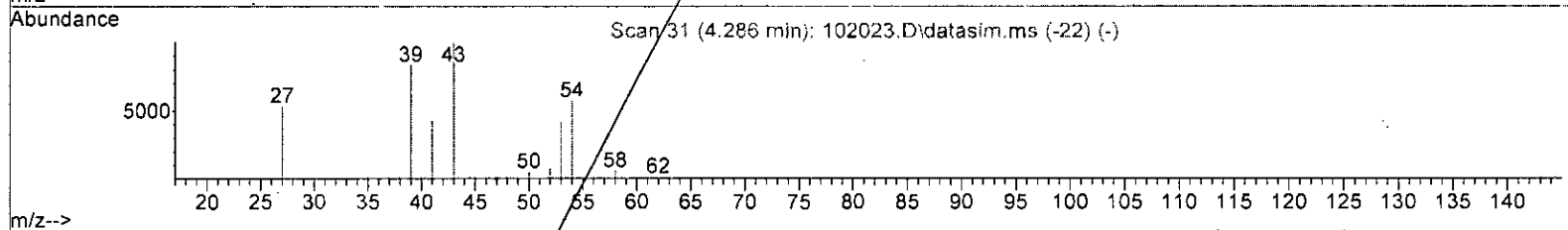
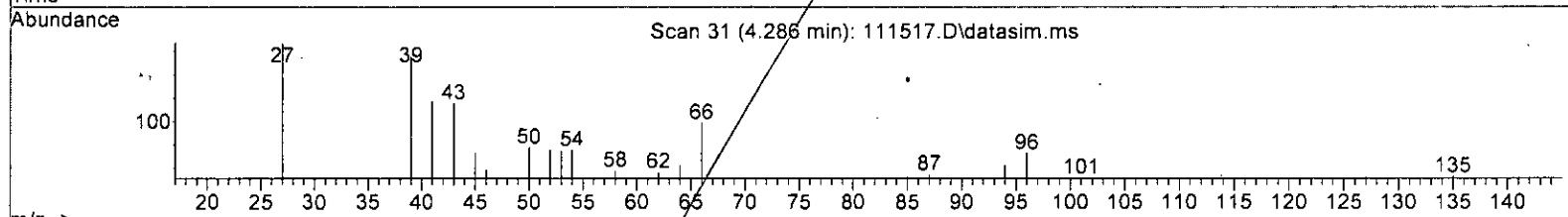
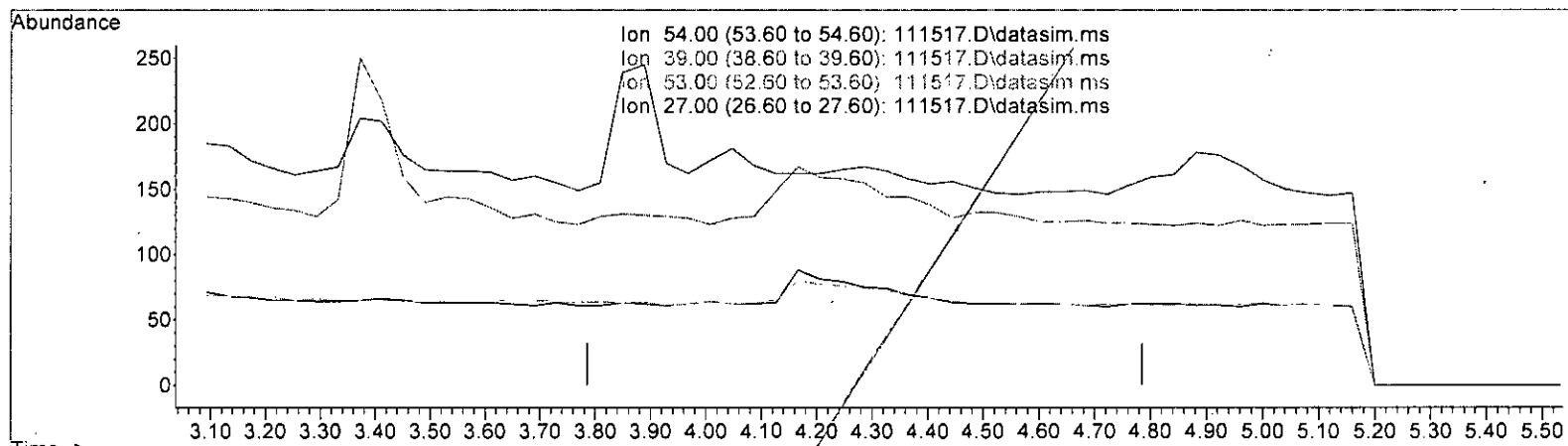
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	31.50	73.39#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(7) 1,3-Butadiene (TMP)

4.286min (-4.286) 0.000 ppbv

response 0

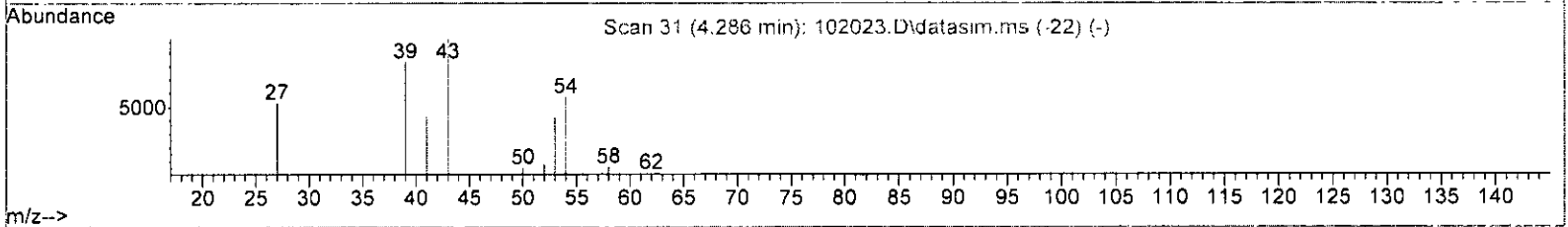
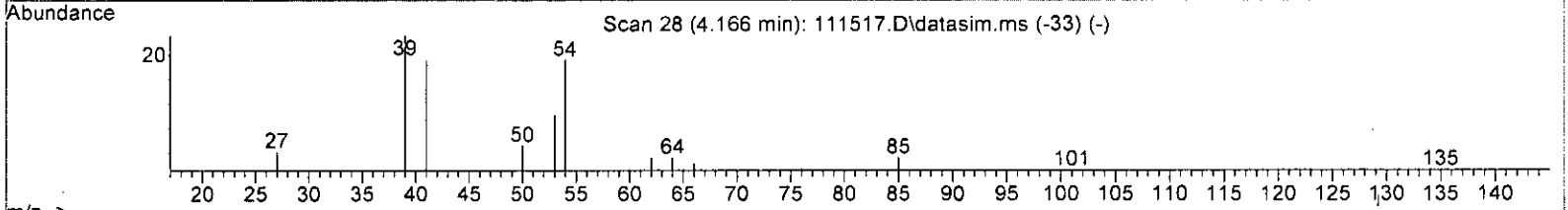
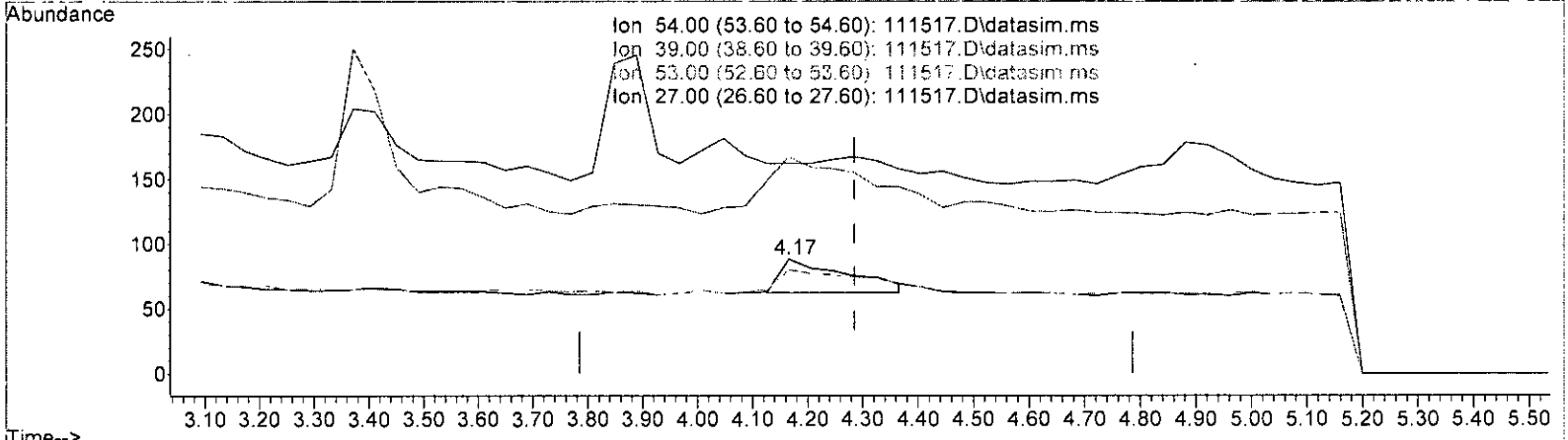
Ion	Exp%	Act%
54.00	100.00	0.00
39.00	127.60	0.00#
53.00	72.40	0.00#
27.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(7) 1,3-Butadiene (TMP)

4.166min (-0.120) 0.029 ppbv m

response 224

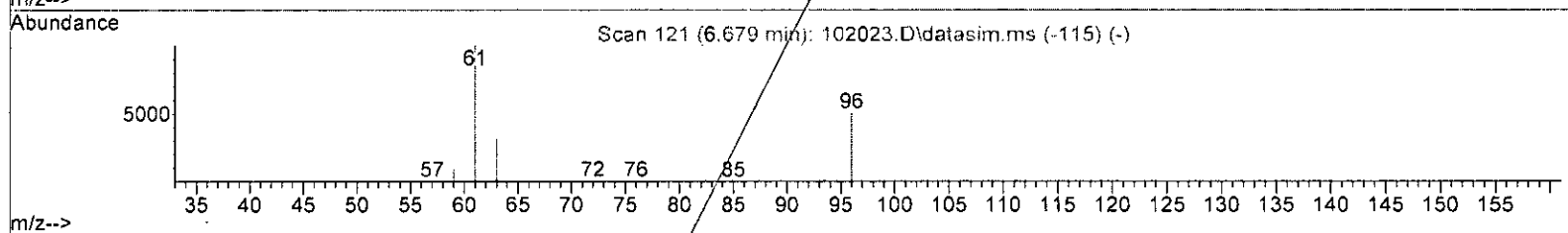
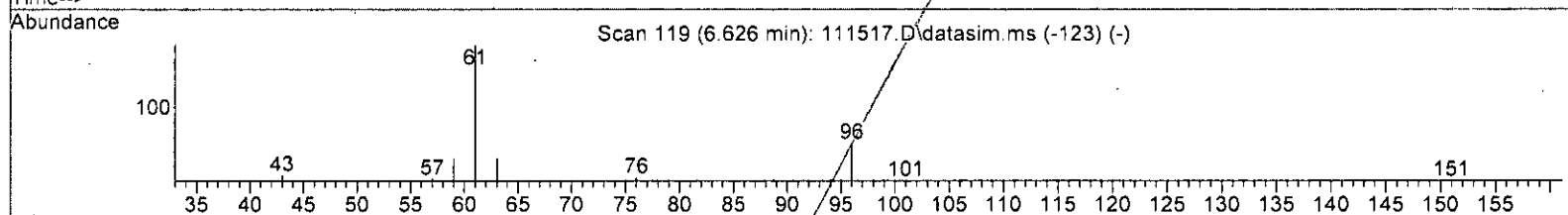
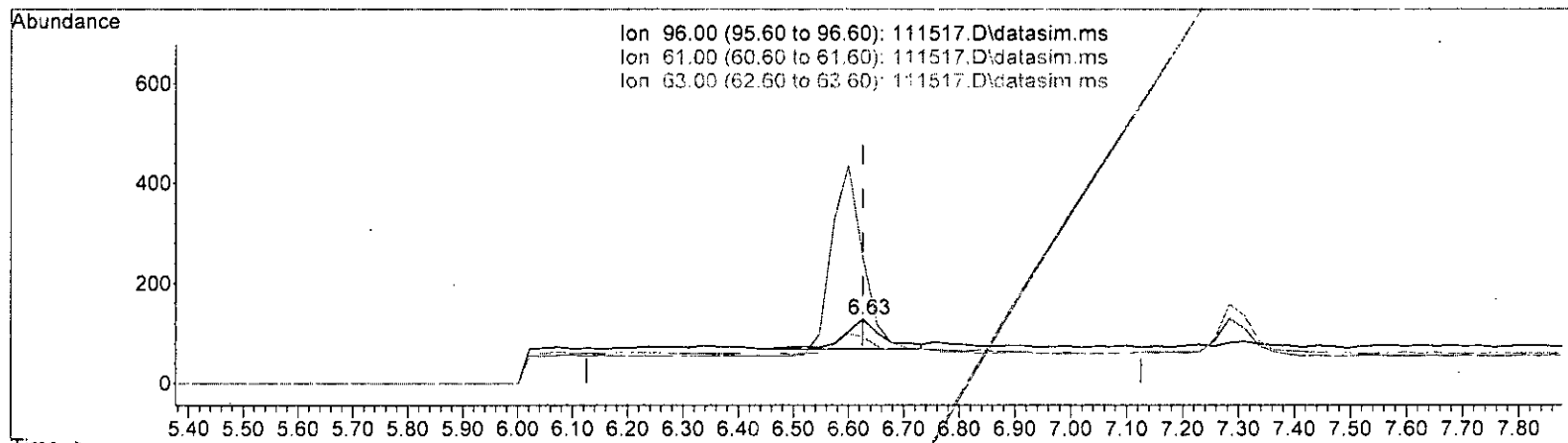
Ion	Exp%	Act%
54.00	100.00	100.00
39.00	127.60	189.77#
53.00	72.40	90.91
27.00	0.00	184.09#

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

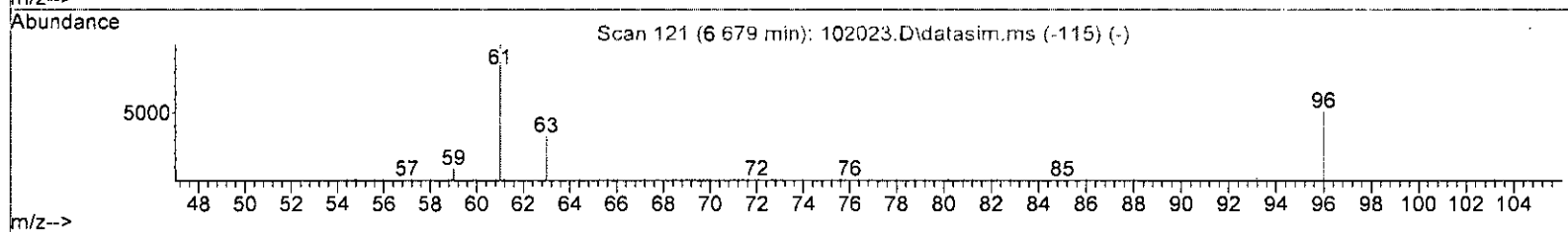
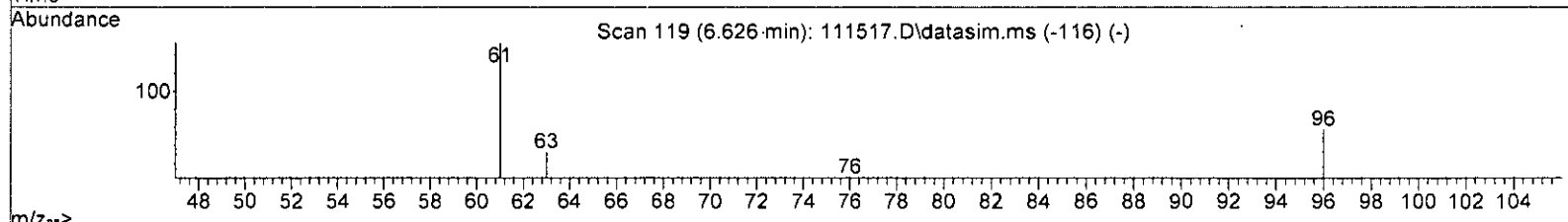
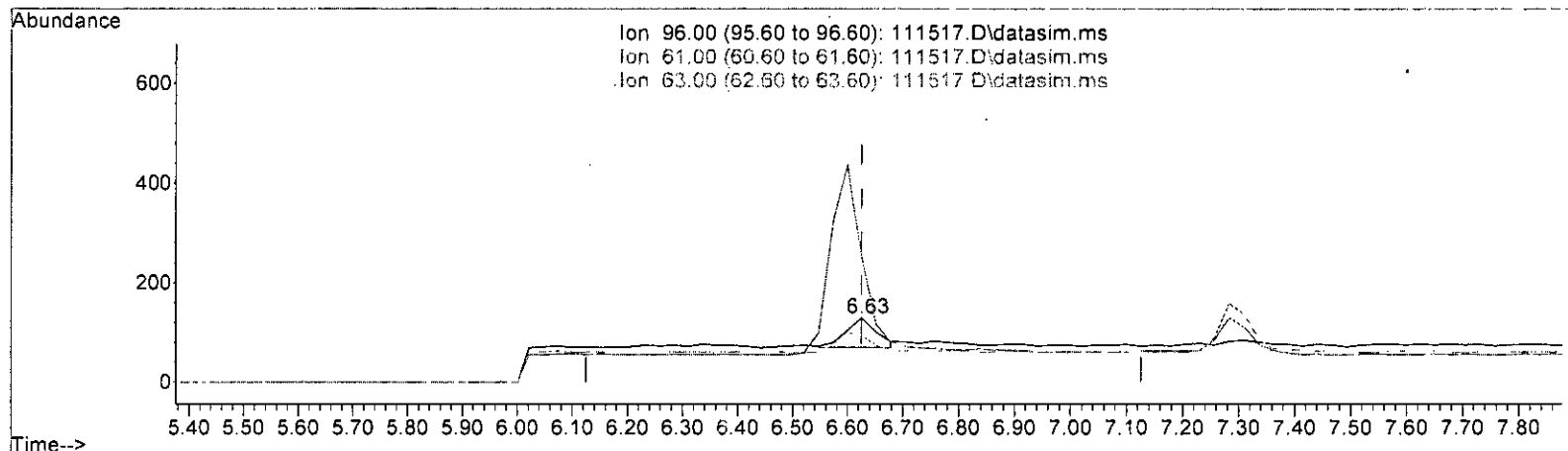
(18) 1,1-Dichloroethene (TMP)		
6.626min (+ 0.000)	0.028 ppbv	
response	293	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	189.00	328.33#
63.00	62.00	53.33
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(18) 1,1-Dichloroethene (TMP)		
6.626min (+ 0.000)	0.022 ppbv m	
response	230	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	189.00	196.12
63.00	62.00	72.87
0.00	0.00	0.00

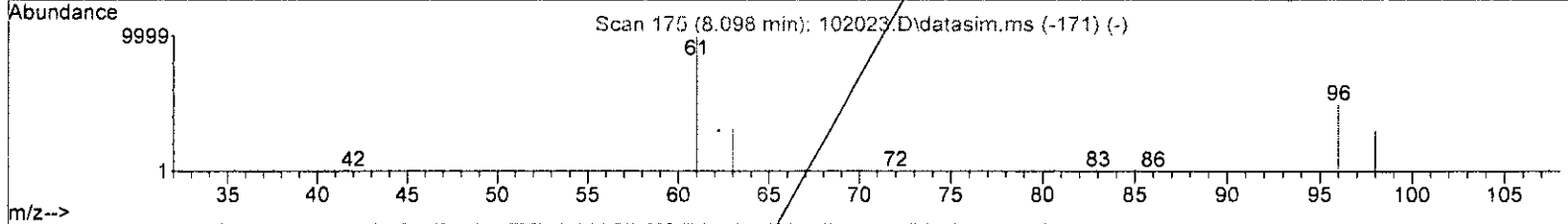
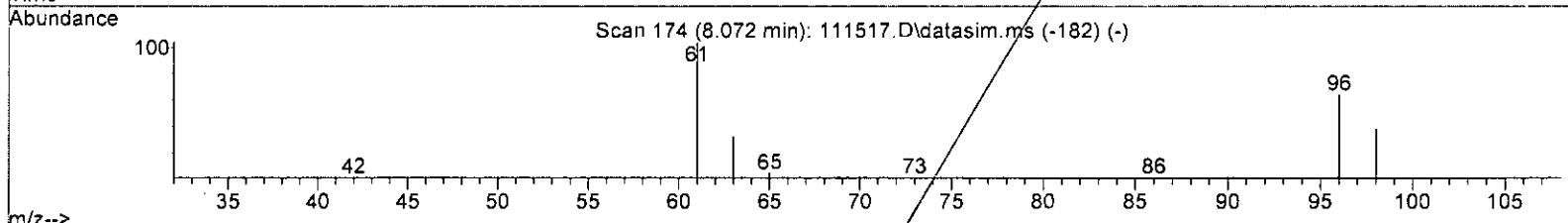
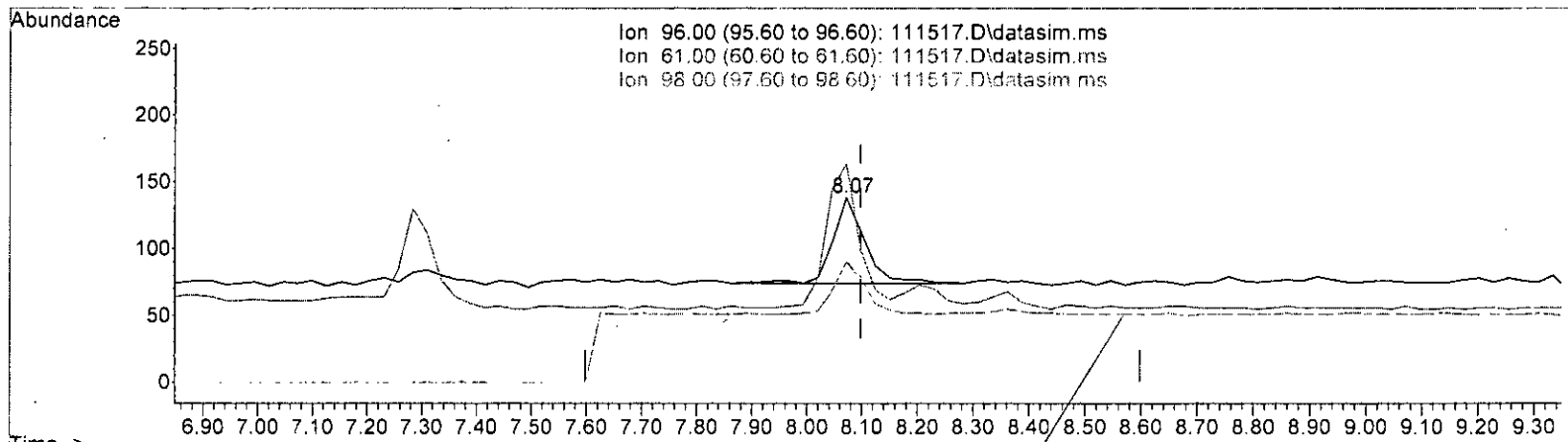
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(19) trans-1,2-Dichloroethene (TMP)  
 8.072min (-0.026) 0.027 ppbv  
 response 266

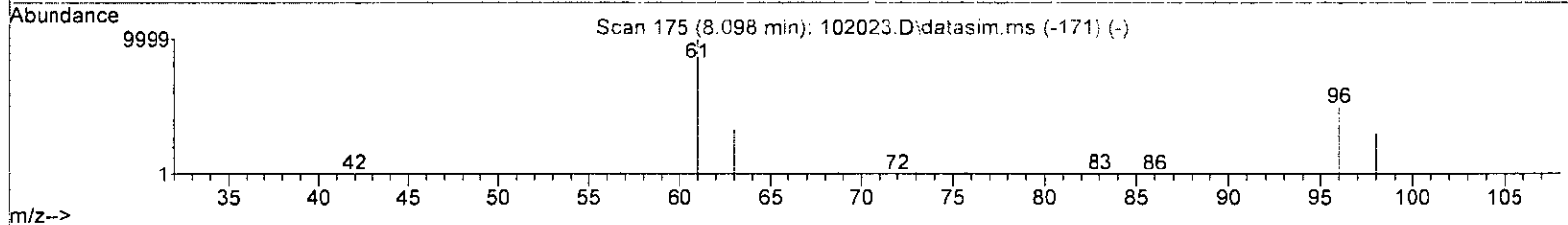
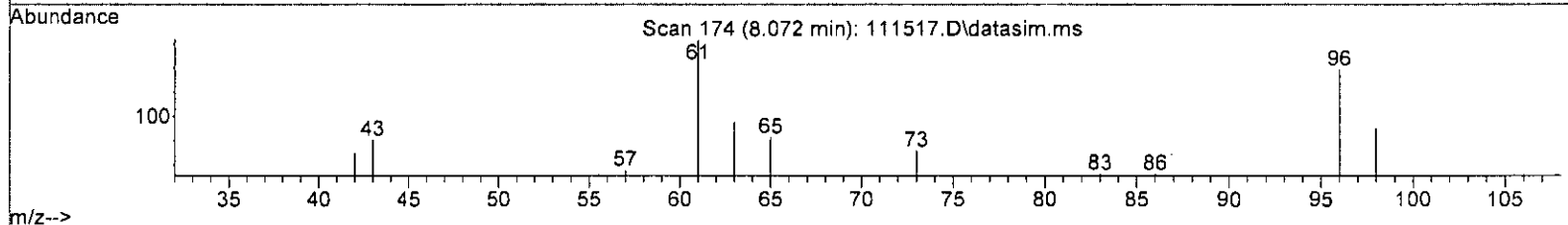
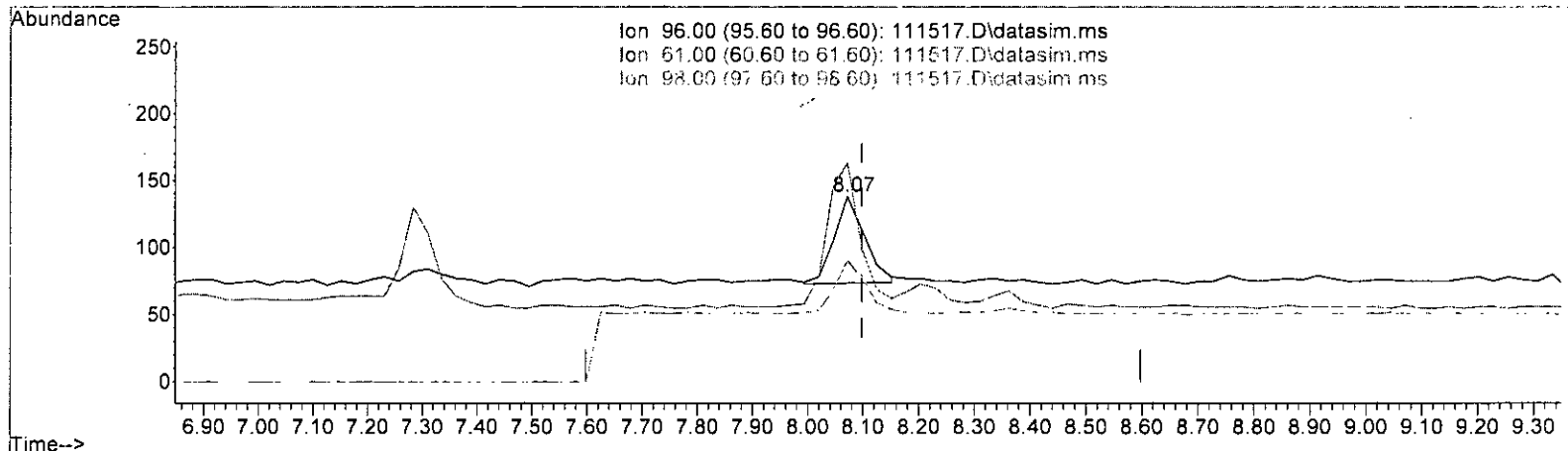
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	177.90	165.63
98.00	64.20	60.94
0.00	0.00	0.00

*Handwritten signature: 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(19) trans-1,2-Dichloroethene (TMP)  
 8.072min (-0.026) 0.025 ppbv m

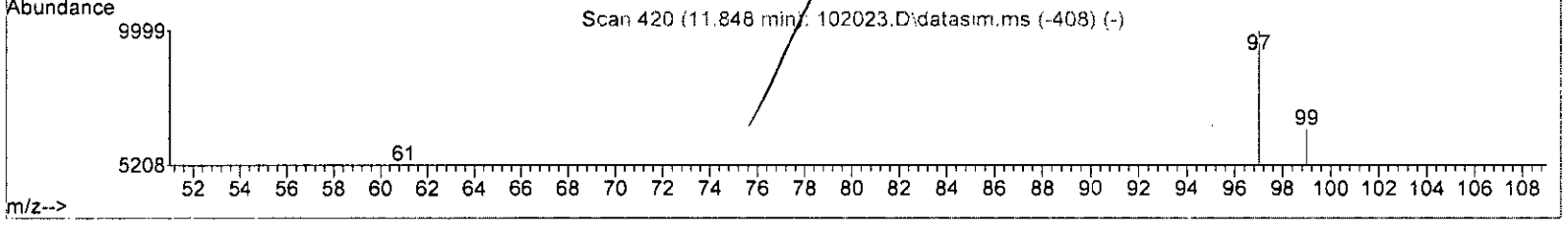
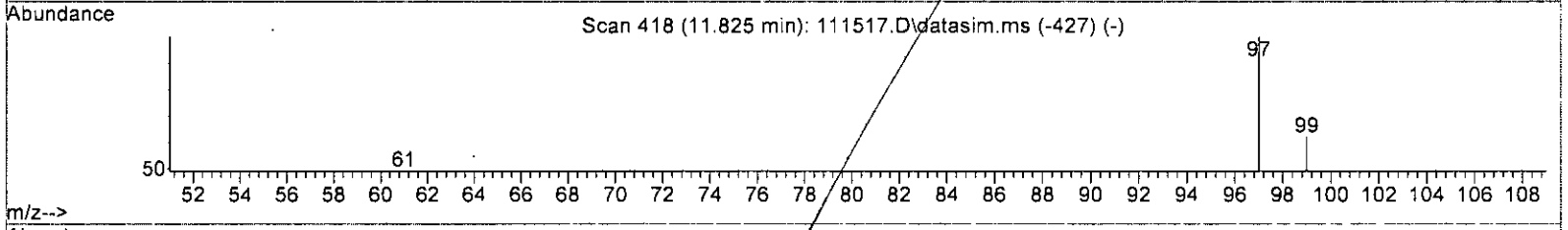
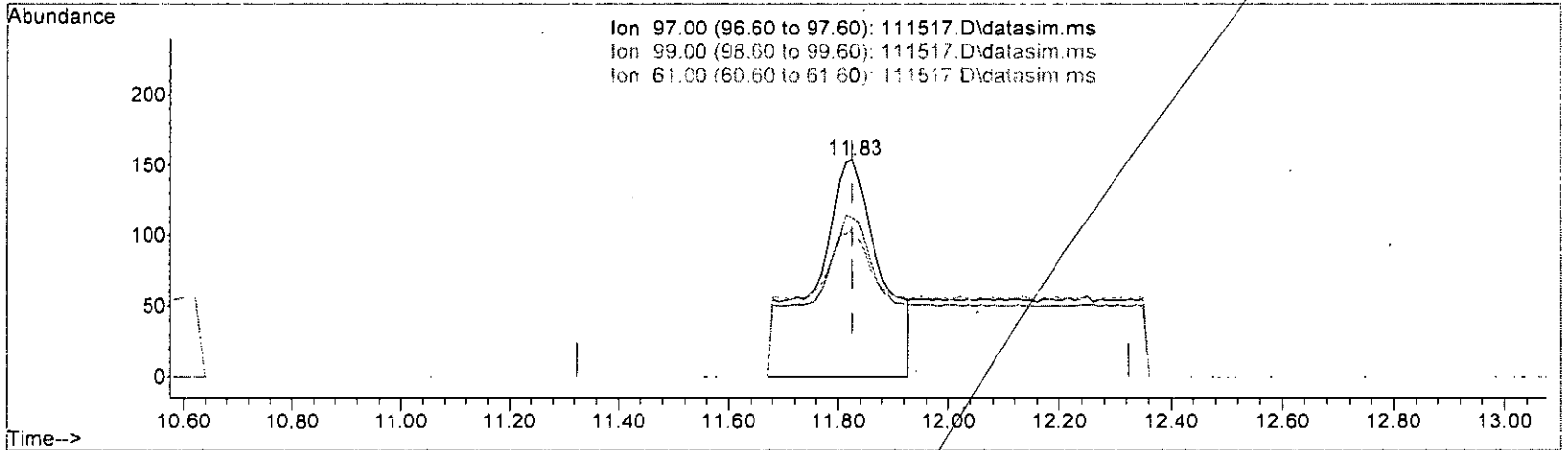
response	249
Ion	Exp% Act%
96.00	100.00 100.00
61.00	177.90 118.12#
98.00	64.20 65.22
0.00	0.00 0.00

*Handwritten signature and date: 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 0.061 ppbv

response 1267

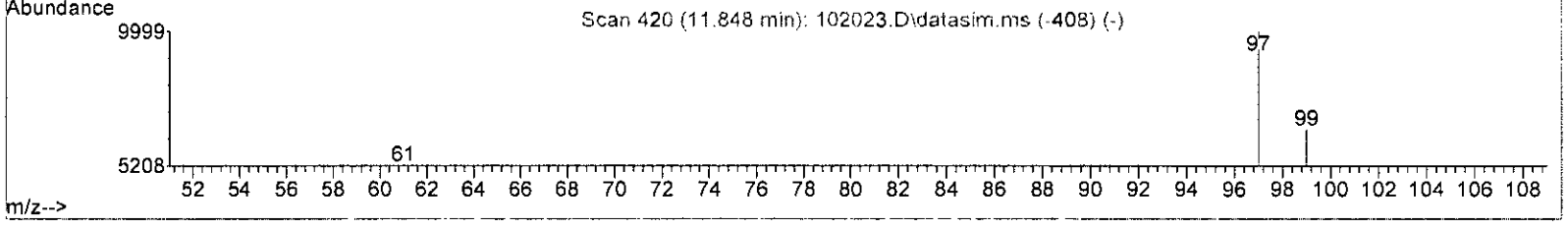
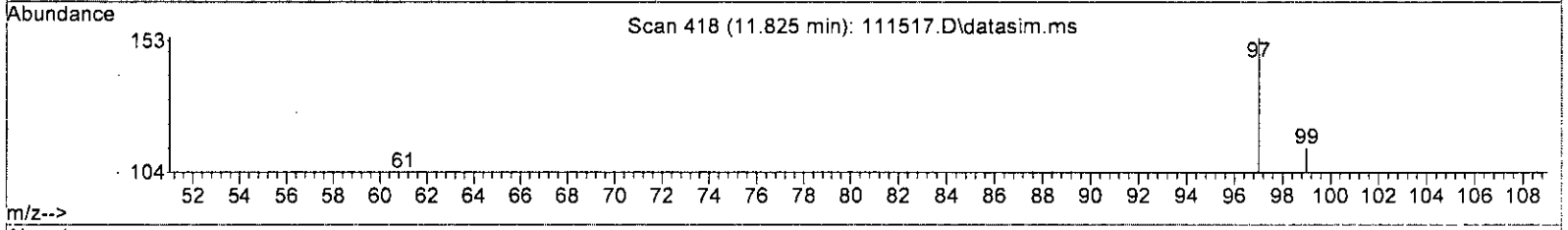
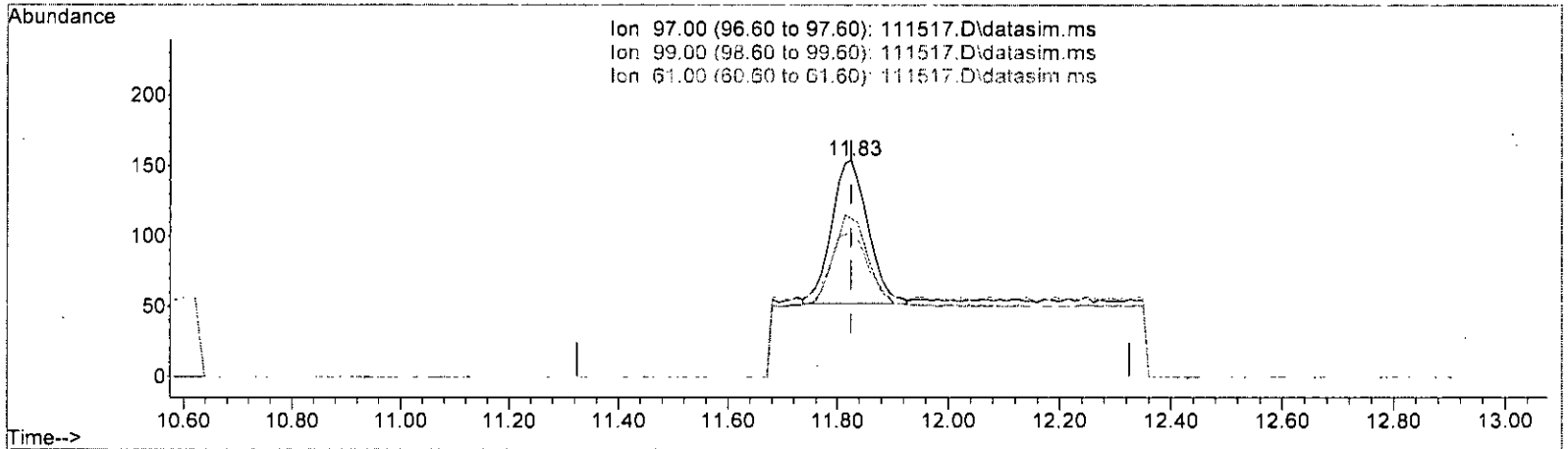
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	73.38
61.00	49.30	67.53
0.00	0.00	0.00

*Handwritten signature and date: 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 0.023 ppbv m

response 472

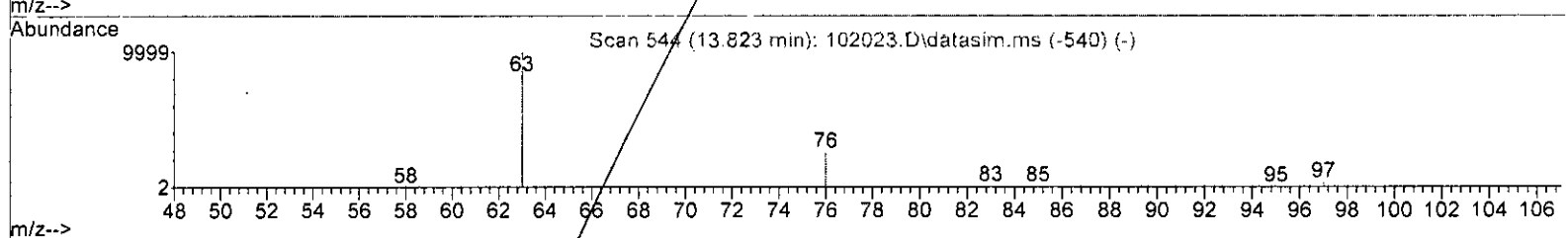
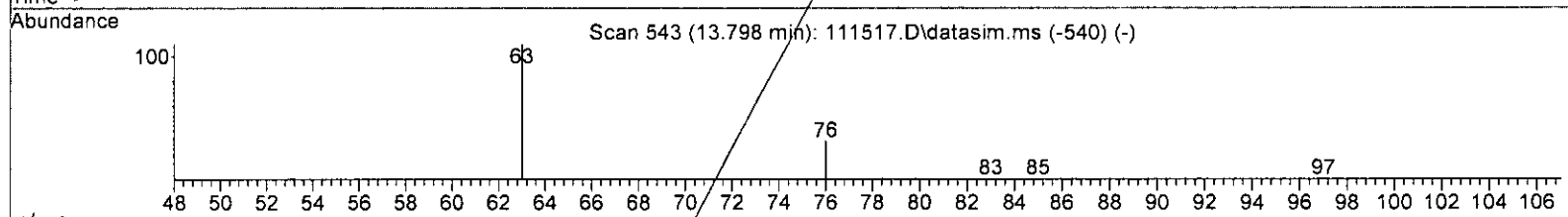
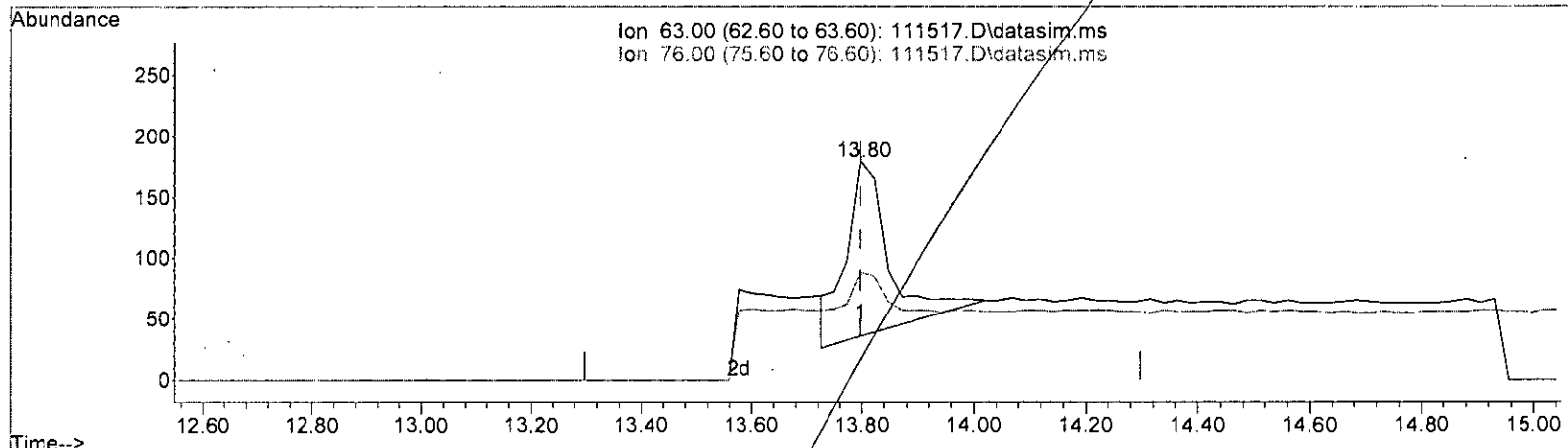
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	73.38
61.00	49.30	67.53
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

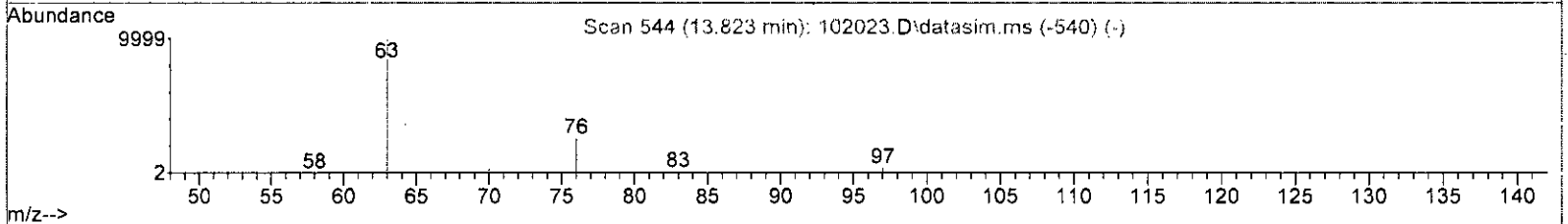
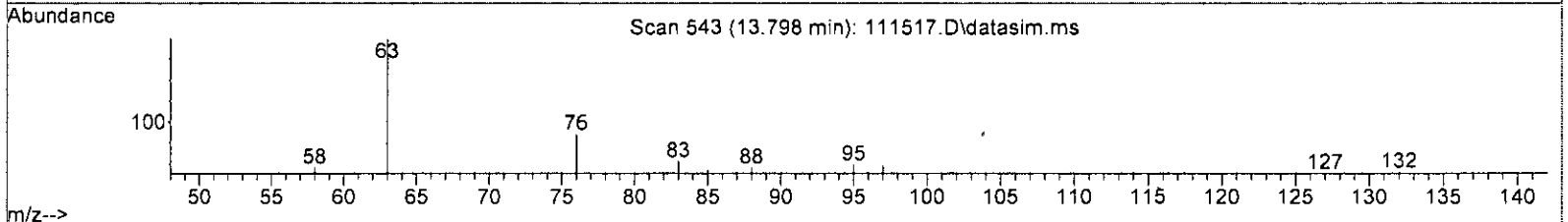
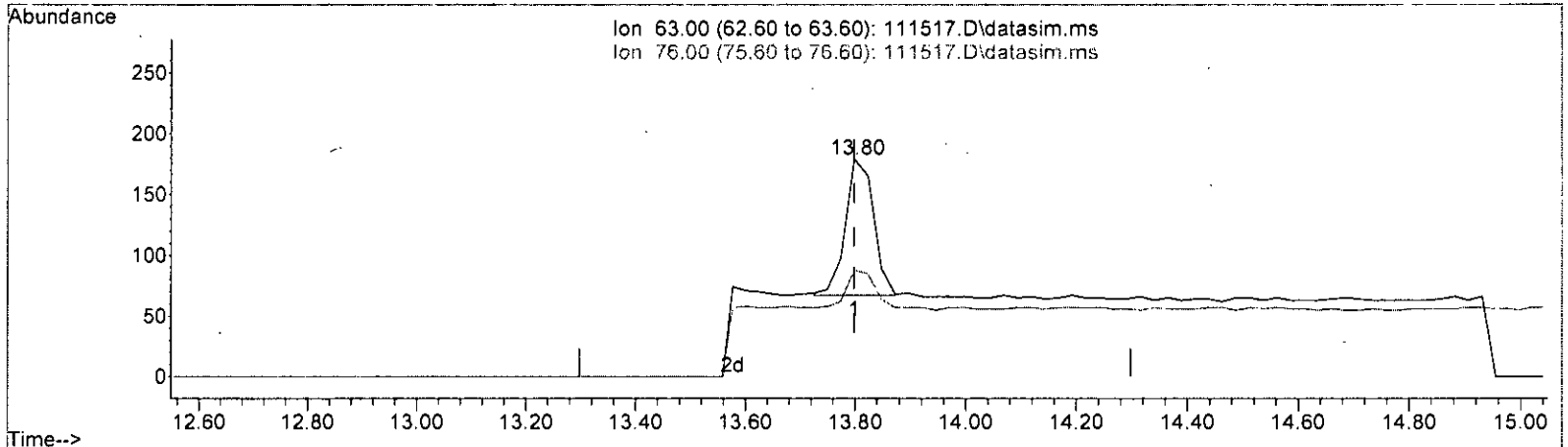
(40) 1,2-Dichloropropane (TMP)		
13.798min (+ 0.000)	0.050 ppbv	
response	771	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	28.07
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature and date: 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.798min (+ 0.000) 0.026 ppbv m

response 396

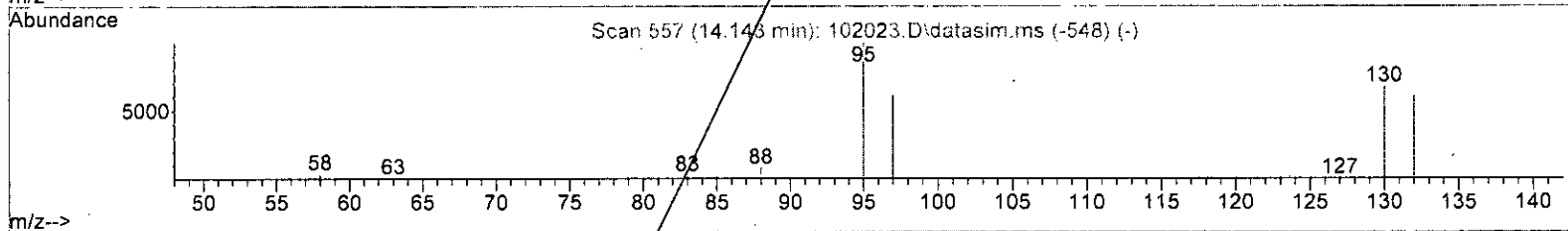
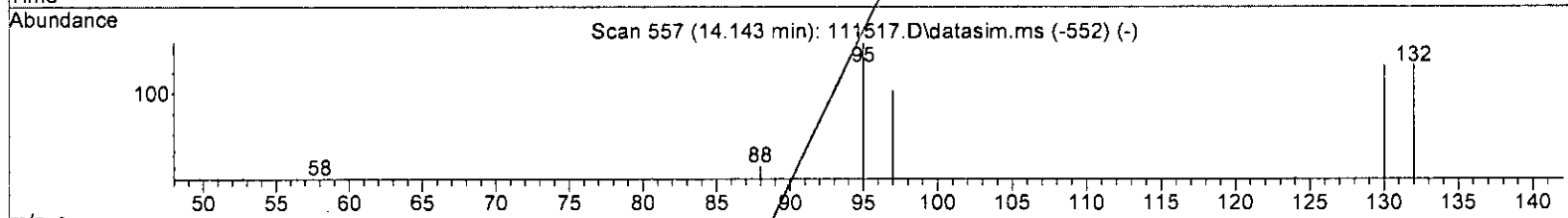
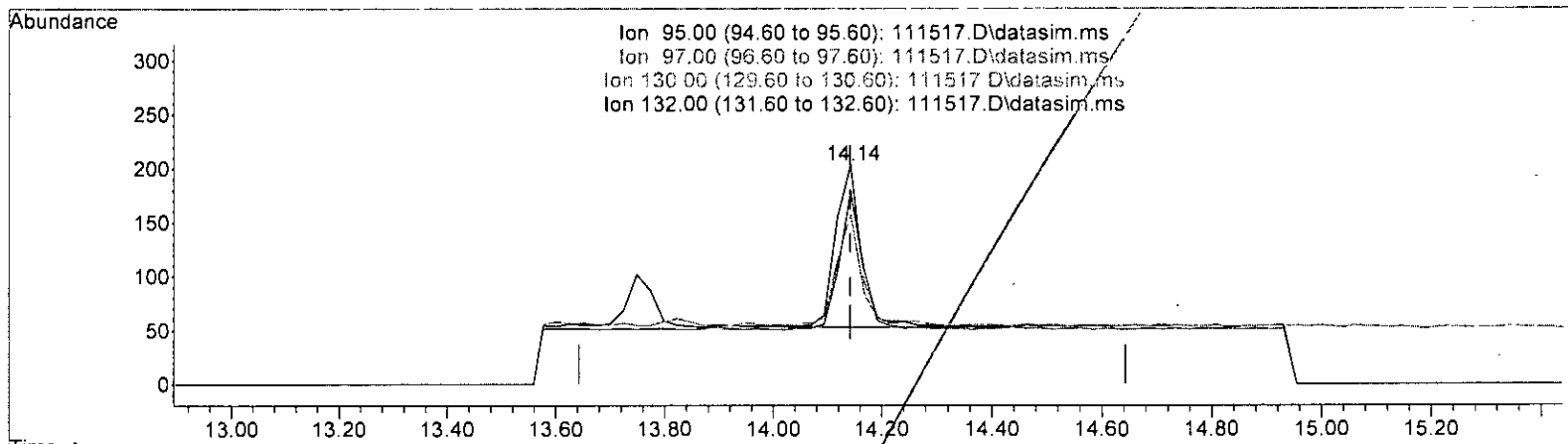
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	49.16
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(46) Trichloroethene (TMP)

14.143min (-0.000) 0.029 ppbv

response 498

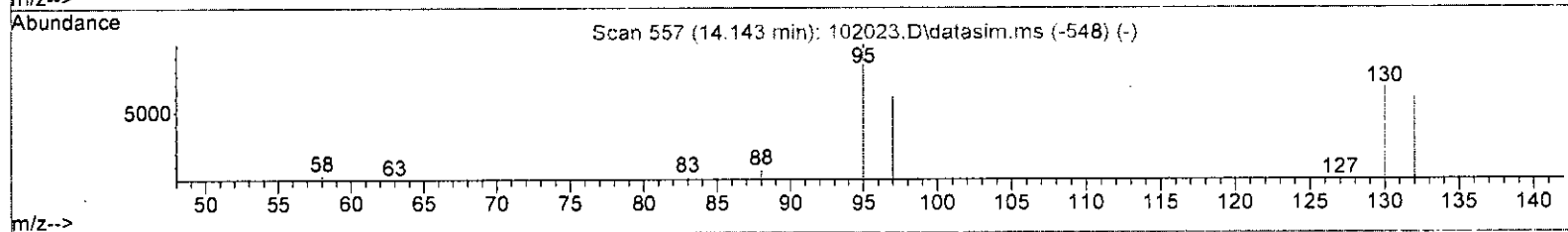
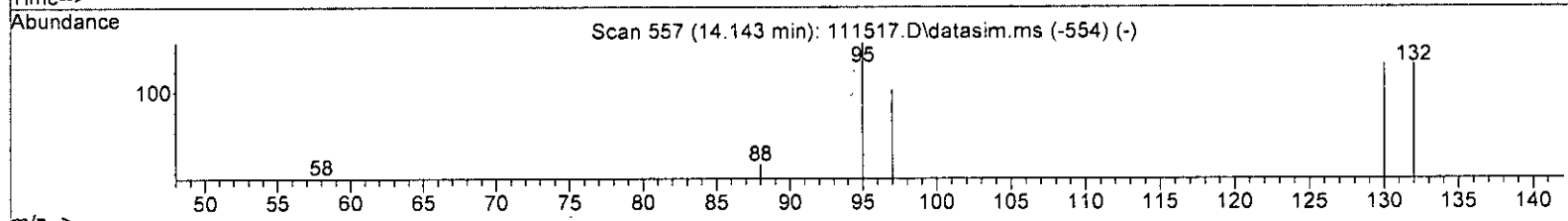
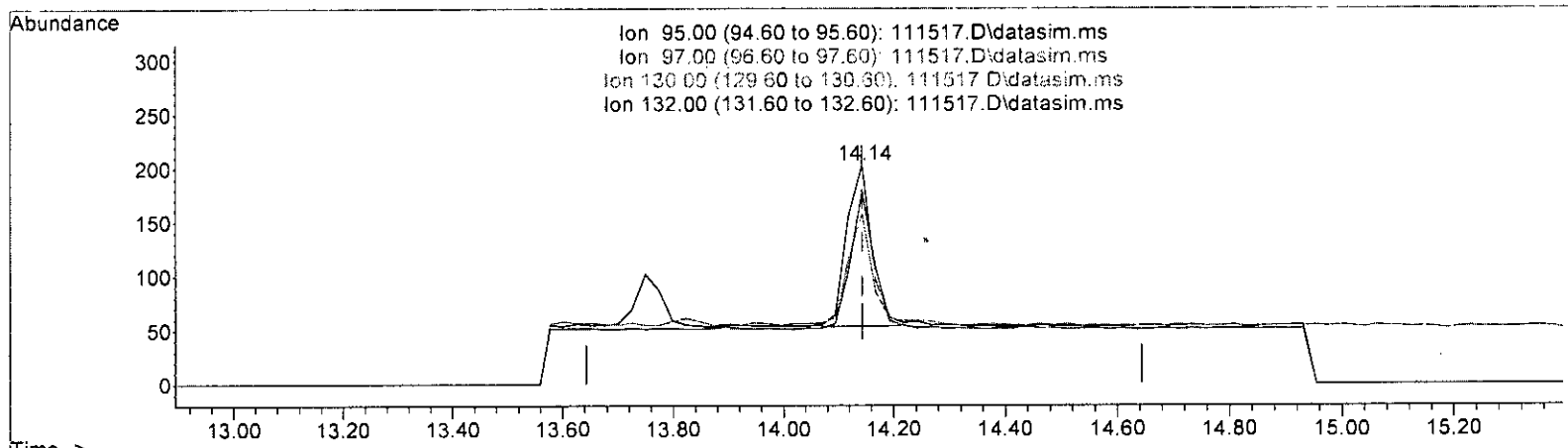
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	67.10	68.67
130.00	86.10	84.67
132.00	84.30	85.33

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(46) Trichloroethene (TMP)

14.143min (-0.000) 0.028 ppbv m

response	467	
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	67.10	77.83
130.00	86.10	87.19
132.00	84.30	88.18

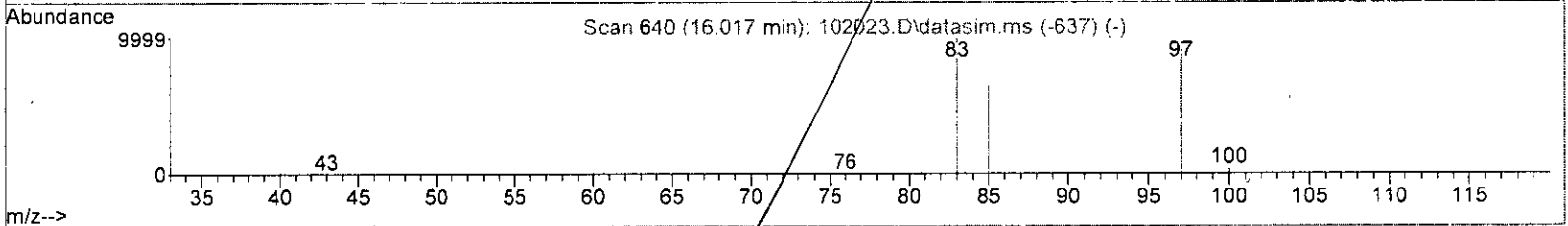
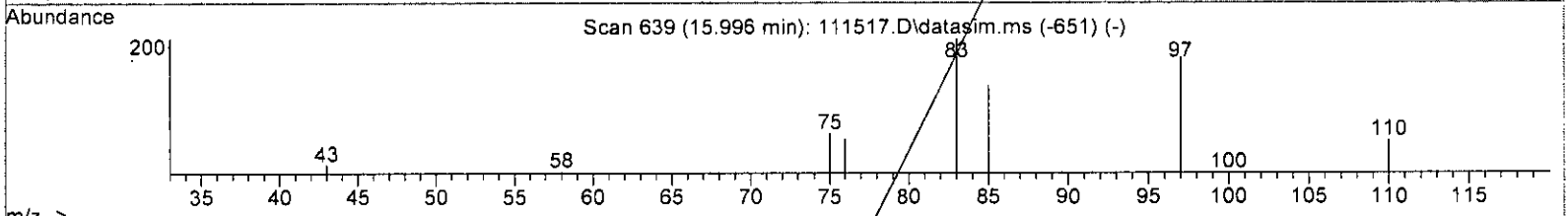
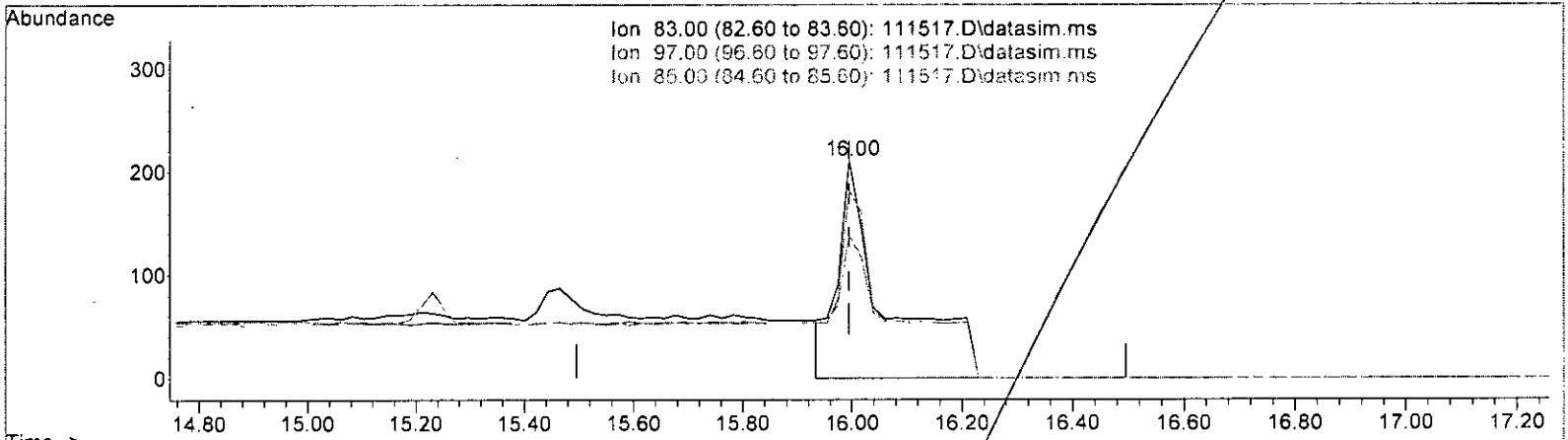
*Handwritten signature and date: 11/18/22*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)

15.996min (-0.000) 0.084 ppbv

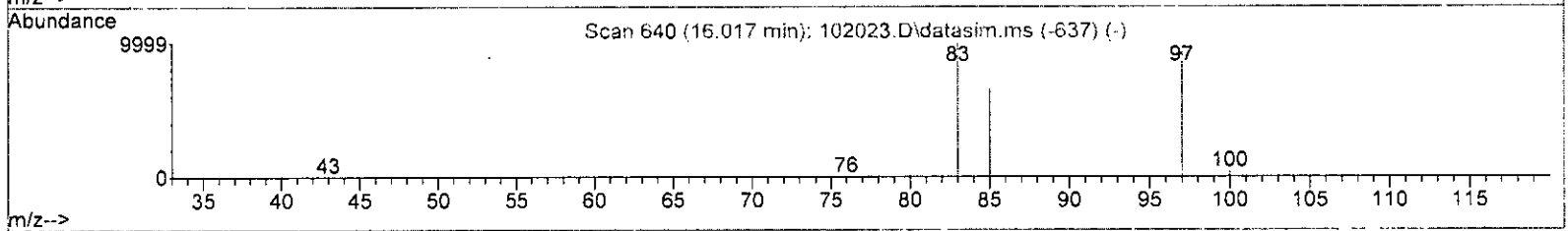
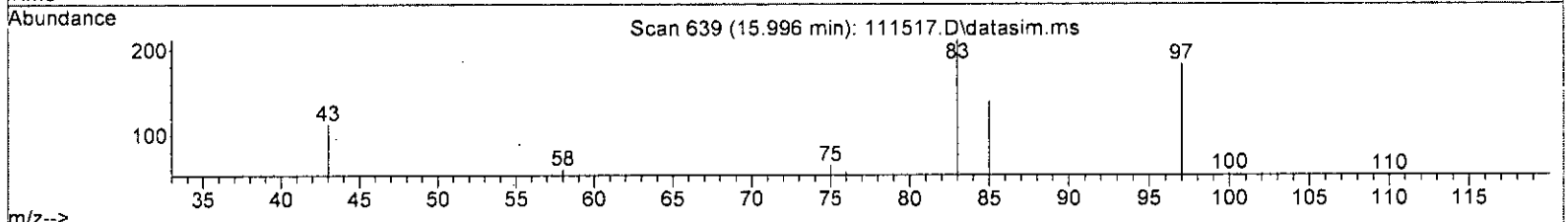
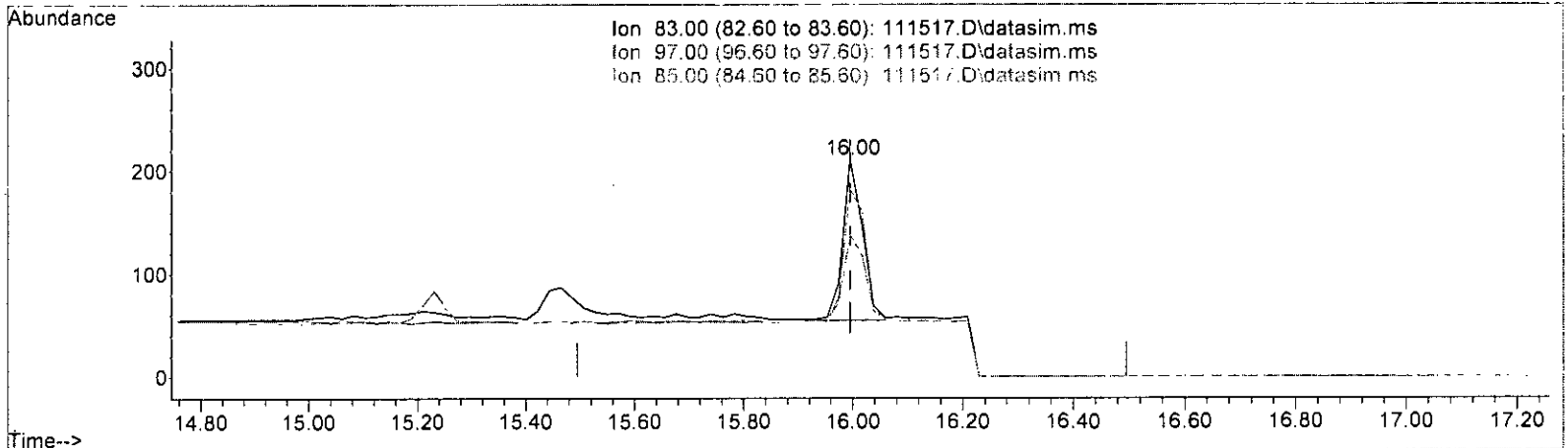
response	1344		
Ion	Exp%	Act%	
83.00	100.00	100.00	
97.00	81.80	86.26	
85.00	60.50	65.40	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)

15.996min (-0.000) 0.021 ppbv m

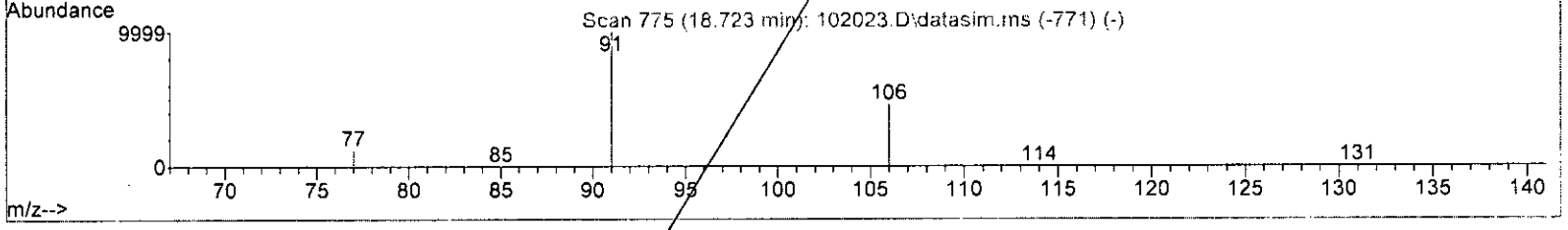
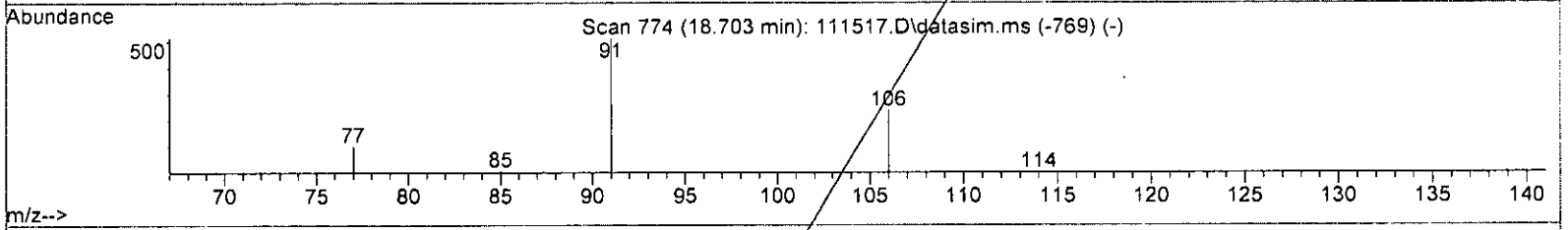
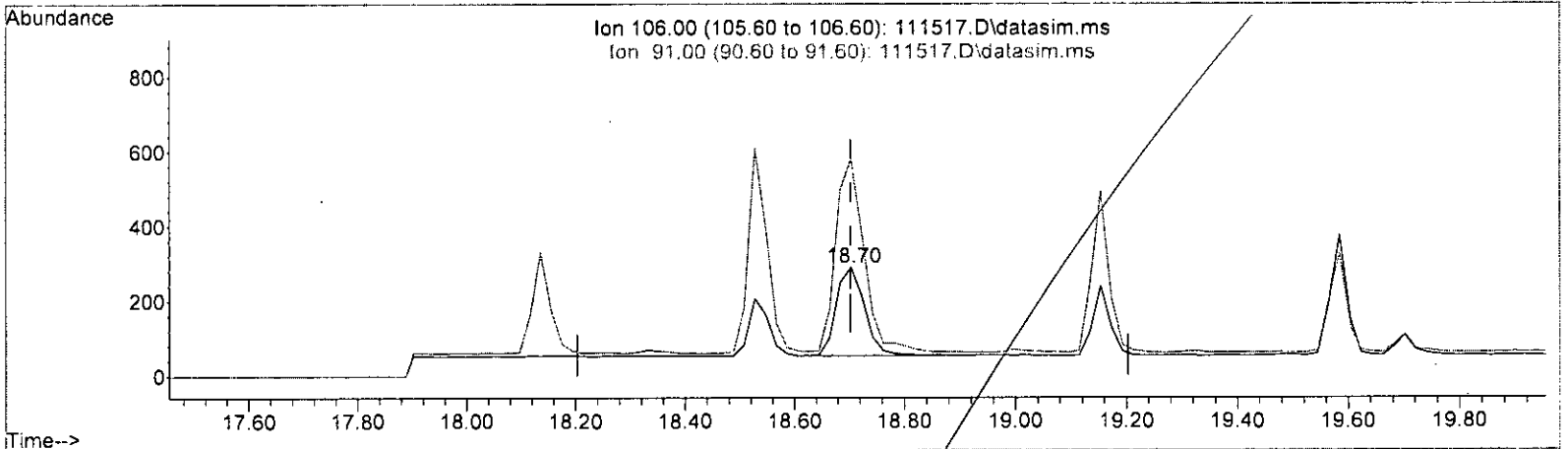
response 393

Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	86.26
85.00	60.50	65.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(65) m,p-Xylene (TMP)

18.703min (+ 0.000) 0.053 ppbv

response 852

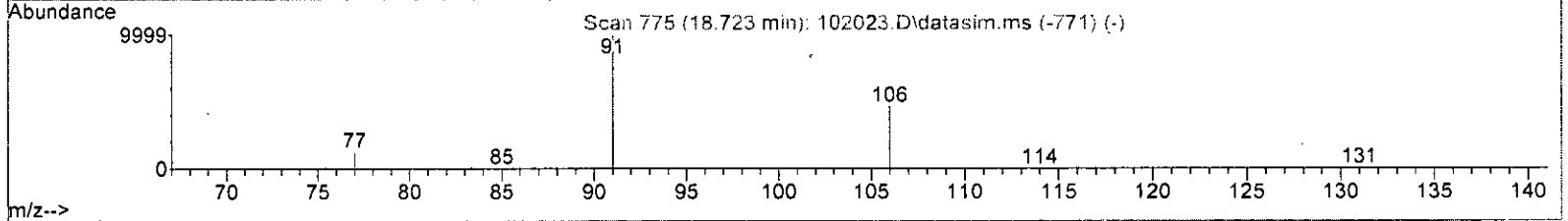
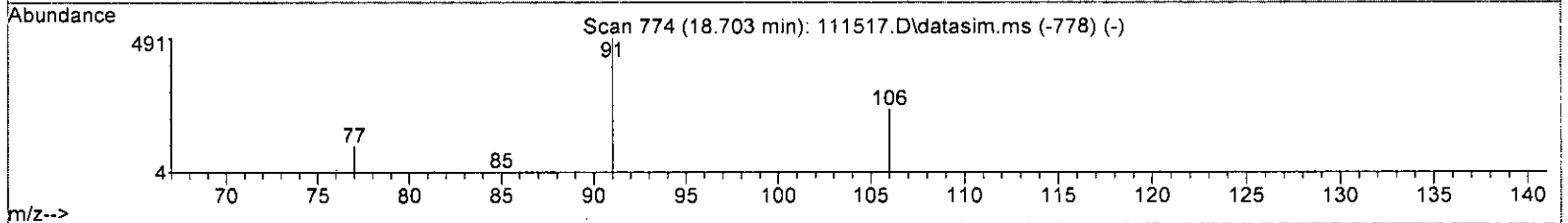
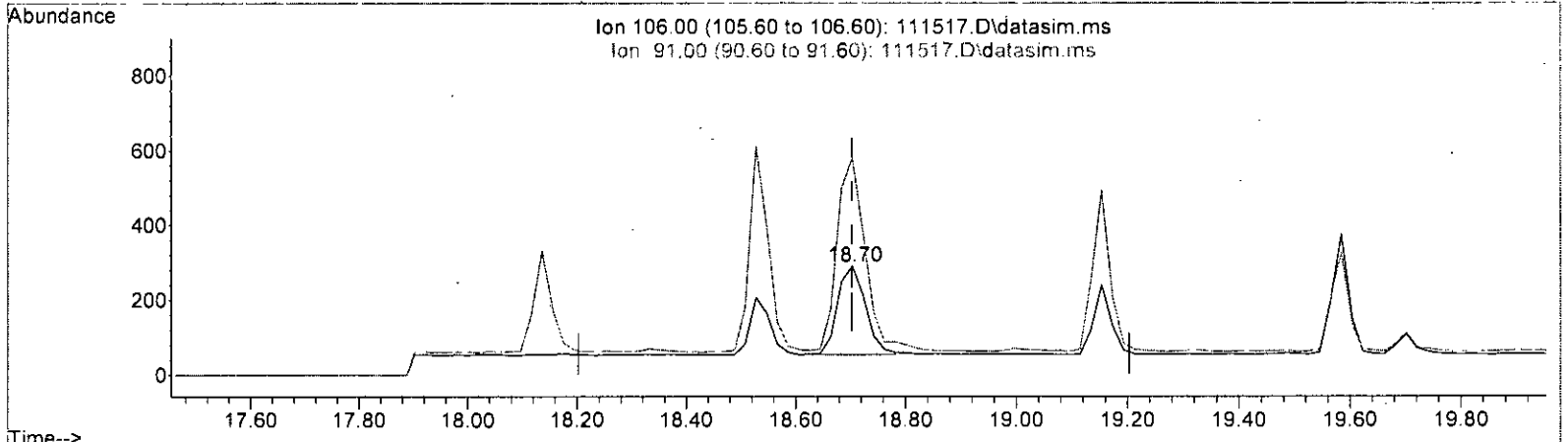
Ion	Exp%	Act%
106.00	100.00	100.00
91.00	223.00	218.22
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(65) m,p-Xylene (TMP)

18.703min (+ 0.000) 0.052 ppbv m

response 835

Ion	Exp%	Act%
106.00	100.00	100.00
91.00	223.00	200.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	62504	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	285561	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	252187	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	161862	9.261	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	92.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0		N.D. d	
3) Dichlorodifluoromethane	0.00		0		N.D. d	
4) Chloromethane	0.00		0		N.D. d	
5) F-114	0.00		0		N.D. d	
6] Vinyl chloride	4.05	62	324m	0.028	ppbv	
7] 1,3-Butadiene	4.17	54	224m	0.029	ppbv	
8) Butane	0.00		0		N.D. d	
9) Bromomethane	0.00		0		N.D. d	
10) Chloroethane	0.00		0		N.D. d	
11) Vinyl bromide	0.00		0		N.D. d	
12) Ethanol	0.00		0		N.D. d	
13) Acrolein	0.00		0		N.D. d	
14) Pentane	0.00		0		N.D. d	
15) Trichlorofluoromethane	0.00		0		N.D. d	
16) Acetone	0.00		0		N.D. d	
17) 2-Propanol	0.00		0		N.D. d	
18] 1,1-Dichloroethene	6.63	96	230m	0.022	ppbv	
19] trans-1,2-Dichloroethene	8.07	96	249m	0.025	ppbv	
20) Methylene chloride	0.00		0		N.D. d	
21) t-Butyl alcohol (TBA)	0.00		0		N.D. d	
22) 3-Chloropropene	0.00		0		N.D. d	
23) CFC-113	0.00		0		N.D. d	
24) Carbon disulfide	0.00		0		N.D. d	
25) Methyl t-butyl ether (...)	0.00		0		N.D. d	
26) Vinyl acetate	0.00		0		N.D. d	
27] 1,1-Dichloroethane	8.36	63	517	0.025	ppbv	98
28] cis-1,2-Dichloroethene	9.62	96	278	0.026	ppbv	92
29) Hexane	0.00		0		N.D. d	
30] Chloroform	10.08	83	588	0.020	ppbv	96
31) Ethyl acetate	0.00		0		N.D. d	
32) Tetrahydrofuran	0.00		0		N.D. d	
33) 2-Butanone (MEK)	0.00		0		N.D. d	
34] 1,2-Dichloroethane (EDC)	11.34	62	385	0.020	ppbv	99
35] 1,1,1-Trichloroethane	11.83	97	472m	0.023	ppbv	
36) Carbon tetrachloride	0.00		0		N.D. d	
37) Benzene	0.00		0		N.D. d	
38) Cyclohexane	0.00		0		N.D. d	
40] 1,2-Dichloropropane	13.80	63	396m	0.026	ppbv	

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

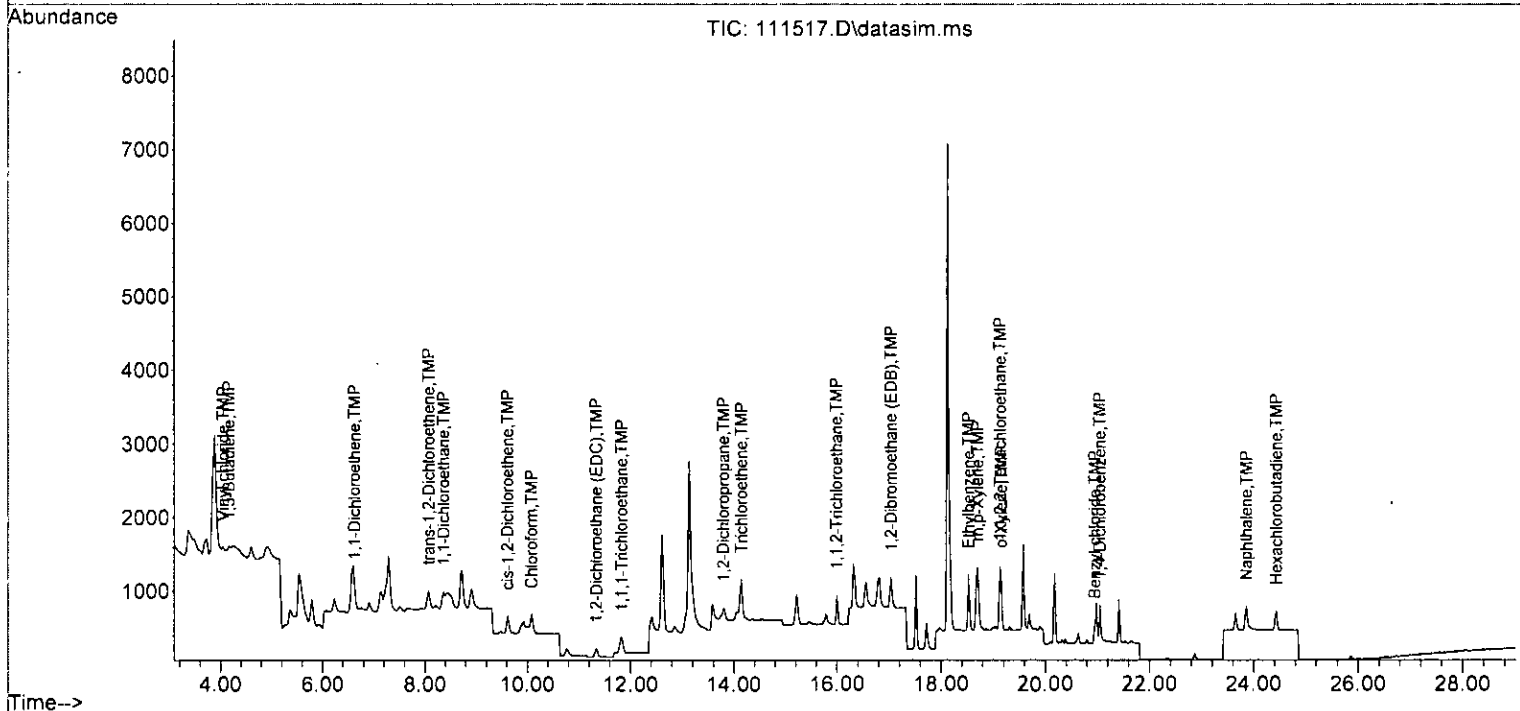
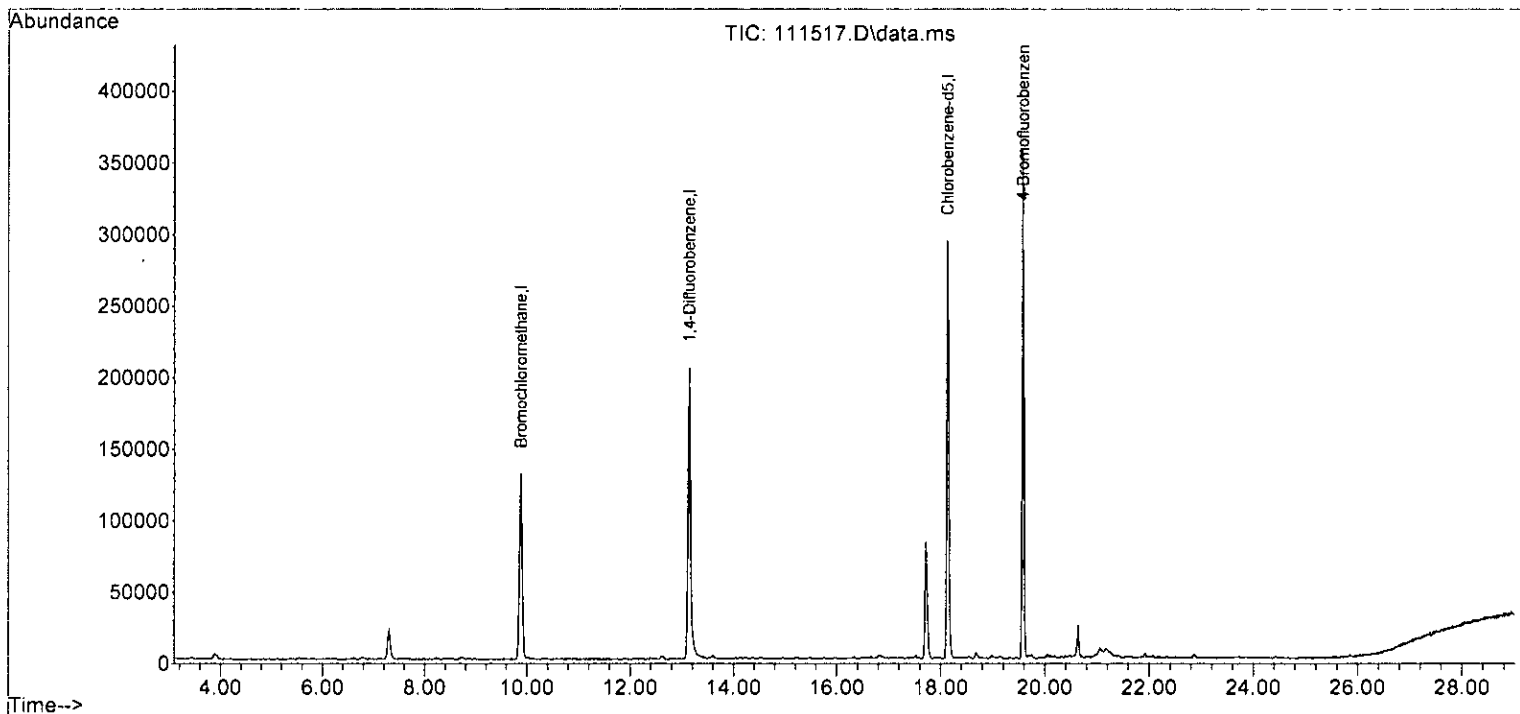
Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0	N.D.	d	
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45) Bromodichloromethane	0.00		0	N.D.	d	
46] Trichloroethene	14.14	95	467m	0.028	ppbv	
47) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
48) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
49) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
50) Toluene	0.00		0	N.D.	d	
51] 1,1,2-Trichloroethane	16.00	83	393m	0.021	ppbv	
52) 2-Hexanone	0.00		0	N.D.	d	
53) Tetrachloroethene	0.00		0	N.D.	d	
54) Dibromochloromethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	566	0.019	ppbv	93
57) Chlorobenzene	0.00		0	N.D.	d	
58] Ethylbenzene	18.53	91	1313	0.022	ppbv	99
59] 1,1,2,2-Tetrachloroethane	19.13	83	797	0.019	ppbv	98
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	0.00		0	N.D.	d	
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63) Propylbenzene	0.00		0	N.D.	d	
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65] m,p-Xylene	18.70	106	835m	0.052	ppbv	
66] o-Xylene	19.15	106	403	0.026	ppbv	96
67) Styrene	0.00		0	N.D.	d	
68) Bromoform	0.00		0	N.D.	d	
70] Benzyl chloride	20.95	91	391	0.014	ppbv	97
71) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
72) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
73) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
74] 1,4-Dichlorobenzene	21.05	146	563	0.024	ppbv	94
75) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
77] Naphthalene	23.86	128	958	0.021	ppbv	99
78] Hexachlorobutadiene	24.44	225	626	0.024	ppbv	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	-1.000	0.000	0.0	0	-3.41#
3 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-3.48#
4 TMP Chloromethane	-1.000	0.000	0.0	0	-3.73#
5 TMP F-114	-1.000	0.000	0.0	0	-3.88#
6 TMP Vinyl chloride	0.020	0.028	-40.0#	94	-0.04
7 TMP 1,3-Butadiene	0.020	0.029	-45.0#	94	-0.12
8 TMP Butane	-1.000	0.000	0.0	0	-4.32#
9 TMP Bromomethane	-1.000	0.000	0.0	0	-4.60#
10 TMP Chloroethane	-1.000	0.000	0.0	0	-4.84#
11 TMP Vinyl bromide	-1.000	0.000	0.0	0	-5.32#
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.96#
13 TMP Acrolein	0.020	0.000	100.0#	0	-5.42#
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-5.84#
16 TMP Acetone	-1.000	0.000	0.0	0	-5.57#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	0.020	0.022	-10.0	78	0.00
19 TMP trans-1,2-Dichloroethene	0.020	0.025	-25.0	94	-0.03
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.80#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	-1.000	0.000	0.0	0	-6.94#
23 TMP CFC-113	-1.000	0.000	0.0	0	-7.15#
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-8.43#
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.54#
27 TMP 1,1-Dichloroethane	0.020	0.025	-25.0	100	0.00
28 TMP cis-1,2-Dichloroethene	0.020	0.026	-30.0	100	-0.02
29 TMP Hexane	-1.000	0.000	0.0	0	-10.01#
30 TMP Chloroform	0.020	0.020	0.0	100	-0.02
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.92#
32 TMP Tetrahydrofuran	-1.000	0.000	0.0	0	-10.75#
33 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-8.91#
34 TMP 1,2-Dichloroethane (EDC)	0.020	0.020	0.0	100	0.00
35 TMP 1,1,1-Trichloroethane	0.020	0.023	-15.0	103	0.00
36 TMP Carbon tetrachloride	0.020	0.000	100.0#	0	-12.86#
37 TMP Benzene	0.020	0.000	100.0#	0	-12.61#
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.07#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.020	0.026	-30.0	102	0.00
41 TMP 1,4-Dioxane	-1.000	0.000	0.0	0	-14.09#
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.24#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.36#



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.56#
45 TMP Bromodichloromethane	0.020	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	0.020	0.028	-40.0#	94	0.00
47 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.20#
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.23#
49 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.78#
50 TMP Toluene	-1.000	0.000	0.0	0	-16.31#
51 TMP 1,1,2-Trichloroethane	0.020	0.021	-5.0	101	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	-1.000	0.000	0.0	0	-17.52#
54 TMP Dibromochloromethane	0.020	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.020	0.019	5.0	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	-1.000	0.000	0.0	0	-18.19#
58 TMP Ethylbenzene	0.020	0.022	-10.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.020	0.019	5.0	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.30#
61 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-19.70#
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	-1.000	0.000	0.0	0	-20.19#
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.32#
65 TMP m,p-Xylene	0.040	0.052	-30.0	98	0.00
66 TMP o-Xylene	0.020	0.026	-30.0	100	0.00
67 TMP Styrene	-1.000	0.000	0.0	0	-19.05#
68 TMP Bromoform	-1.000	0.000	0.0	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.261	7.4	100	0.00
70 TMP Benzyl chloride	0.020	0.014	30.0	100	0.00
71 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-20.39#
72 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-20.80#
73 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-20.98#
74 TMP 1,4-Dichlorobenzene	0.020	0.024	-20.0	100	0.00
75 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-21.41#
76 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-23.64#
77 TMP Naphthalene	0.020	0.021	-5.0	100	0.02
78 TMP Hexachlorobutadiene	0.020	0.024	-20.0	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	0.000	100.0#	0#	-3.41#
3 TMP Dichlorodifluoromethane	4.123	0.000#	100.0#	0#	-3.48#
4 TMP Chloromethane	1.882	0.000#	100.0#	0#	-3.73#
5 TMP F-114	4.217	0.000	100.0#	0#	-3.88#
6 TMP Vinyl chloride	1.851	2.592	-40.0#	94	-0.04
7 TMP 1,3-Butadiene	1.216	1.792	-47.4#	94	-0.12
8 TMP Butane	2.183	0.000	100.0#	0#	-4.32#
9 TMP Bromomethane	1.847	0.000#	100.0#	0#	-4.60#
10 TMP Chloroethane	0.655	0.000#	100.0#	0#	-4.84#
11 TMP Vinyl bromide	1.609	0.000	100.0#	0#	-5.32#
12 TMP Ethanol	0.663	0.000	100.0#	0#	-4.96#
13 TMP Acrolein	0.729	0.000	100.0#	0#	-5.42#
14 TMP Pentane	2.461	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.781	0.000#	100.0#	0#	-5.84#
16 TMP Acetone	0.710	0.000#	100.0#	0#	-5.57#
17 TMP 2-Propanol	3.096	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.645	1.840	-11.9	78	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.992	-24.7	94	-0.03
20 TMP Methylene chloride	1.479	0.000#	100.0#	0#	-6.80#
21 TMP t-Butyl alcohol (TBA)	2.668	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.056	0.000	100.0#	0#	-6.94#
23 TMP CFC-113	3.469	0.000	100.0#	0#	-7.15#
24 TMP Carbon disulfide	5.167	0.000	100.0#	0#	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	3.434	0.000#	100.0#	0#	-8.43#
26 TMP Vinyl acetate	3.801	0.000#	100.0#	0#	-8.54#
27 TMP 1,1-Dichloroethane	3.342	4.136	-23.8	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	2.224	-31.6#	100	-0.02
29 TMP Hexane	2.068	0.000	100.0#	0#	-10.01#
30 TMP Chloroform	4.060	4.704	-15.9	100	-0.02
31 TMP Ethyl acetate	3.789	0.000	100.0#	0#	-9.92#
32 TMP Tetrahydrofuran	1.809	0.000	100.0#	0#	-10.75#
33 TMP 2-Butanone (MEK)	0.619	0.000	100.0#	0#	-8.91#
34 TMP 1,2-Dichloroethane (EDC)	2.687	3.080	-14.6	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.776	-13.0	103	0.00
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	0.000#	100.0#	0#	-12.61#
38 TMP Cyclohexane	1.367	0.000	100.0#	0#	-13.07#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.693	-28.1	102	0.00
41 TMP 1,4-Dioxane	0.230	0.000	100.0#	0#	-14.09#
42 TMP 2,2,4-Trimethylpentane	1.598	0.000	100.0#	0#	-14.24#
43 TMP Methyl methacrylate	0.485	0.000	100.0#	0#	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.000	100.0#	0#	-14.56#
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.818	-37.9#	94	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.000	100.0#	0#	-15.20#
48 TMP 4-Methyl-2-pentanone	0.044	0.000	100.0#	0#	-15.23#
49 TMP trans-1,3-Dichloropropene	0.563	0.000	100.0#	0#	-15.78#
50 TMP Toluene	0.707	0.000	100.0#	0#	-16.31#
51 TMP 1,1,2-Trichloroethane	0.550	0.688	-25.1	101	0.00
52 TMP 2-Hexanone	0.846	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.490	0.000#	100.0#	0#	-17.52#
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.991	-20.3	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	0.000#	100.0#	0#	-18.19#
58 TMP Ethylbenzene	1.968	2.603	-32.3#	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.580	-13.3	100	0.00
60 TMP Nonane	0.981	0.000	100.0#	0#	-19.30#
61 TMP Isopropylbenzene	1.792	0.000	100.0#	0#	-19.70#
62 TMP 2-Chlorotoluene	0.448	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.292	0.000	100.0#	0#	-20.19#
64 TMP 4-Ethyltoluene	1.611	0.000	100.0#	0#	-20.32#
65 TMP m,p-Xylene	0.633	0.828	-30.8#	98	0.00
66 TMP o-Xylene	0.615	0.799	-29.9	100	0.00
67 TMP Styrene	0.819	0.000#	100.0#	0#	-19.05#
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.642	7.4	100	0.00
70 TMP Benzyl chloride	0.987	0.775	21.5	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	0.000	100.0#	0#	-20.39#
72 TMP 1,2,4-Trimethylbenzene	1.247	0.000	100.0#	0#	-20.80#
73 TMP 1,3-Dichlorobenzene	1.012	0.000	100.0#	0#	-20.98#
74 TMP 1,4-Dichlorobenzene	0.947	1.116	-17.8	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	0.000	100.0#	0#	-21.41#
76 TMP 1,2,4-Trichlorobenzene	0.626	0.000	100.0#	0#	-23.64#
77 TMP Naphthalene	1.132	1.899	-67.8#	100	0.02
78 TMP Hexachlorobutadiene	1.045	1.241	-18.8	100	0.00

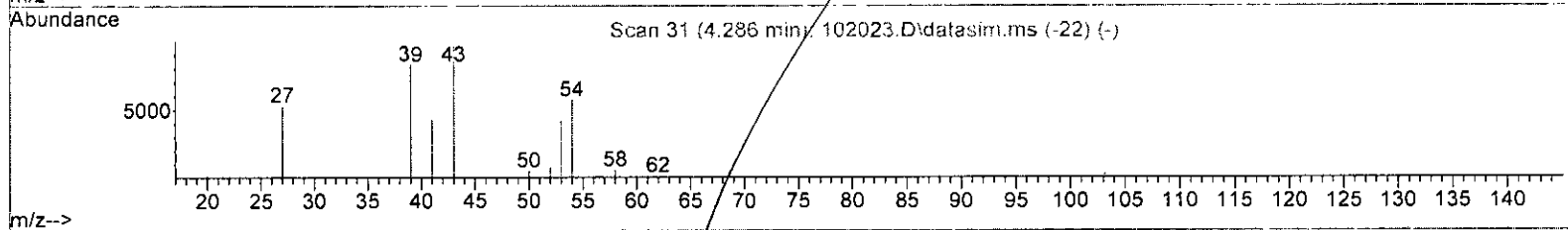
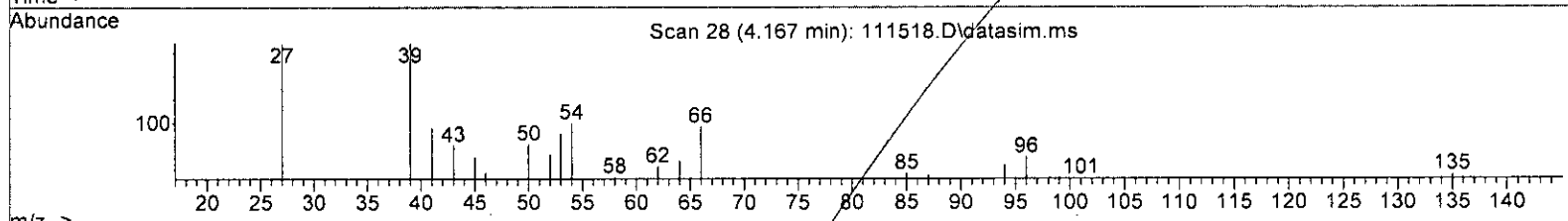
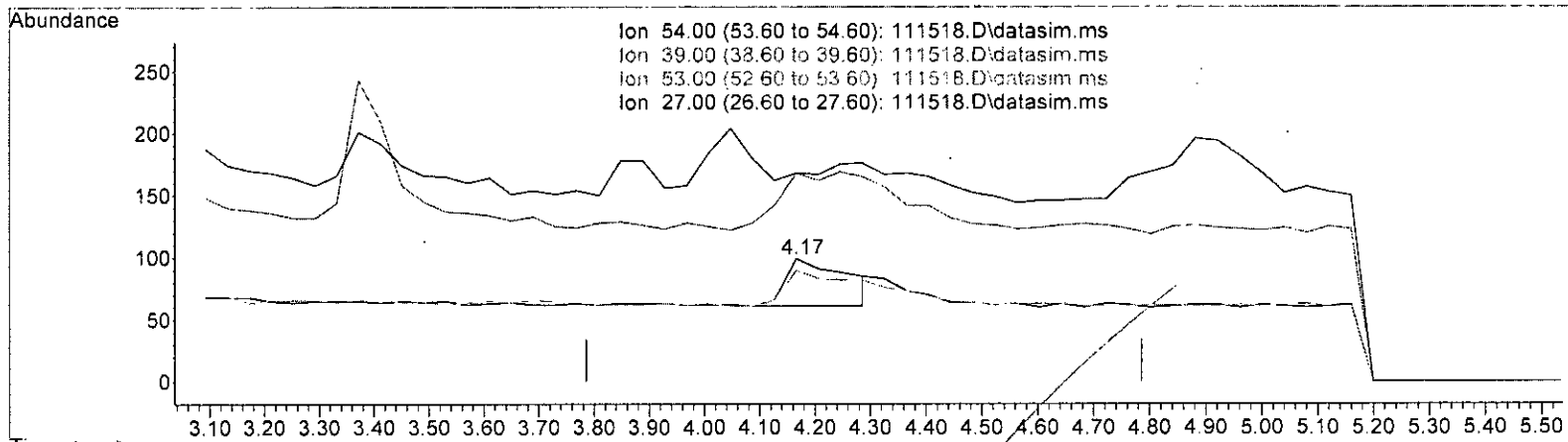
(#) = Out of Range

SPCC's out = 18 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(7) 1,3-Butadiene (TMP)  
 4.167min (-0.119) 0.039 ppbv m

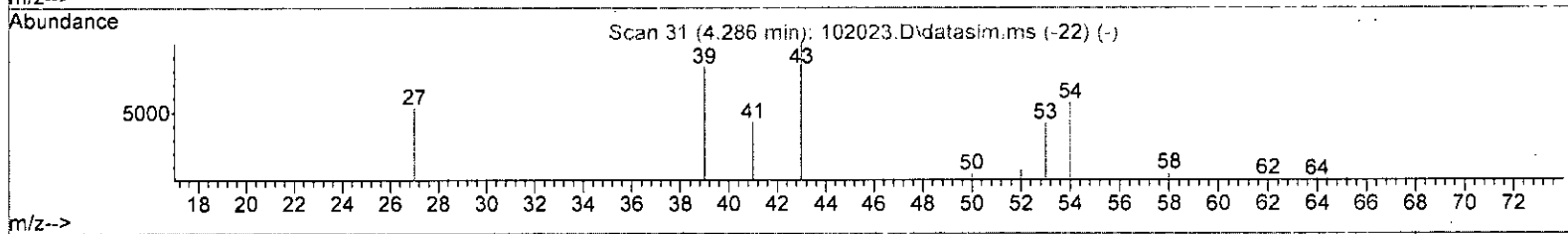
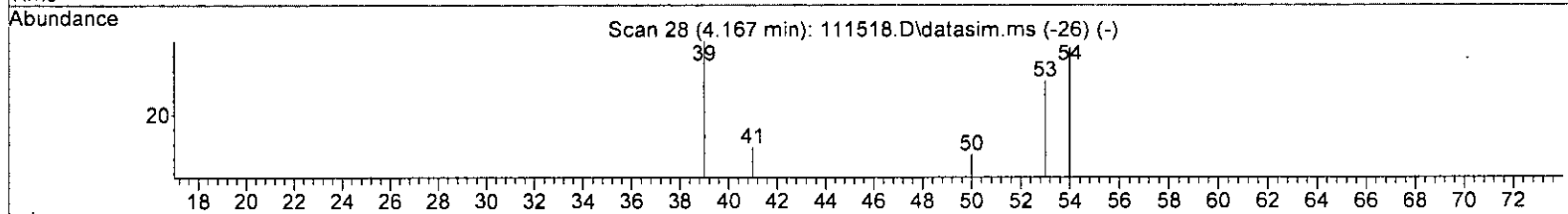
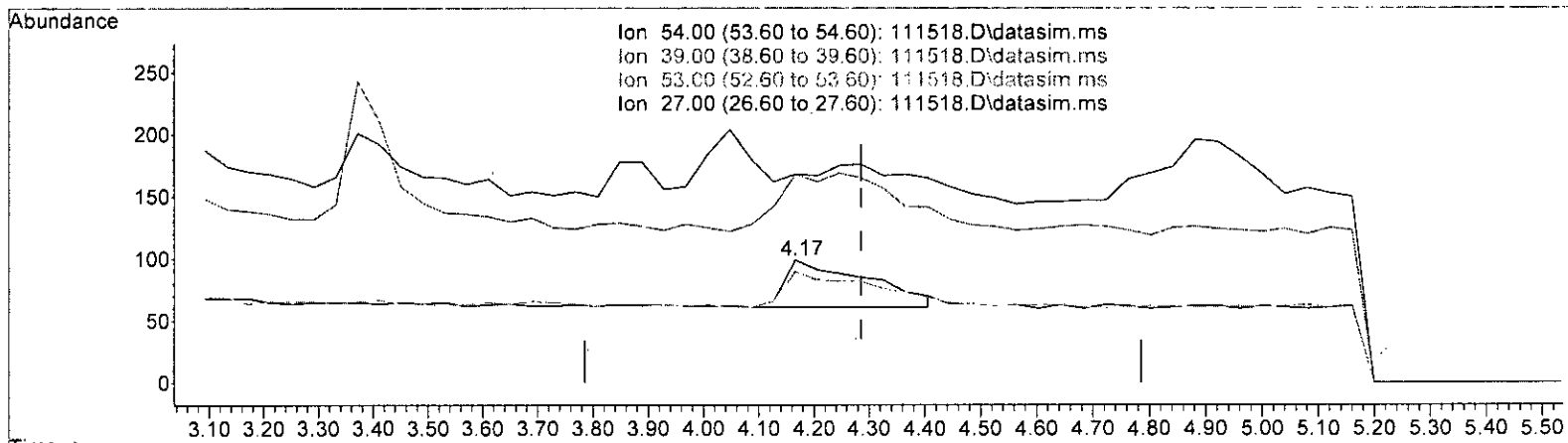
response	296	
Ion	Exp%	Act%
54.00	100.00	100.00
39.00	127.60	169.70#
53.00	72.40	90.91
27.00	0.00	169.70#

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(7) 1,3-Butadiene (TMP)

4.167min (-0.119) 0.052 ppbv m

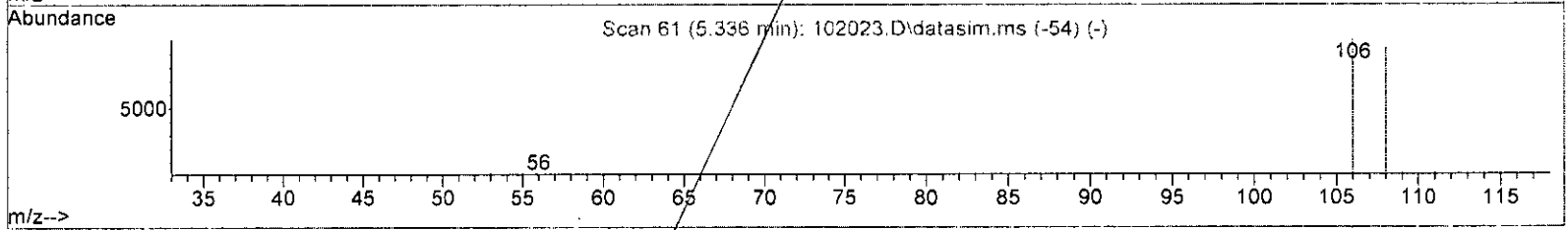
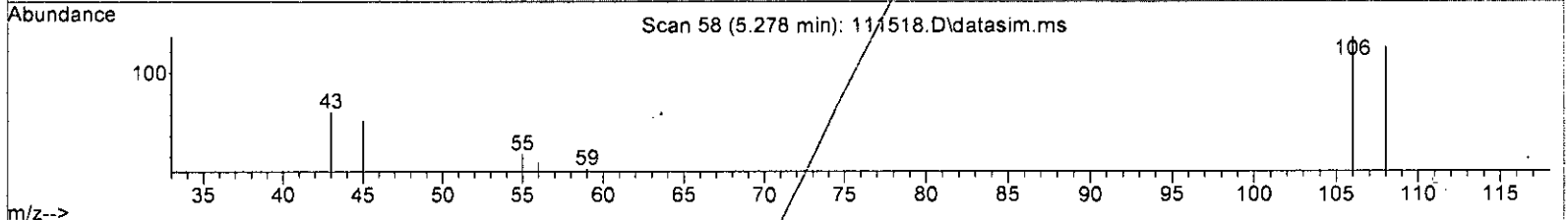
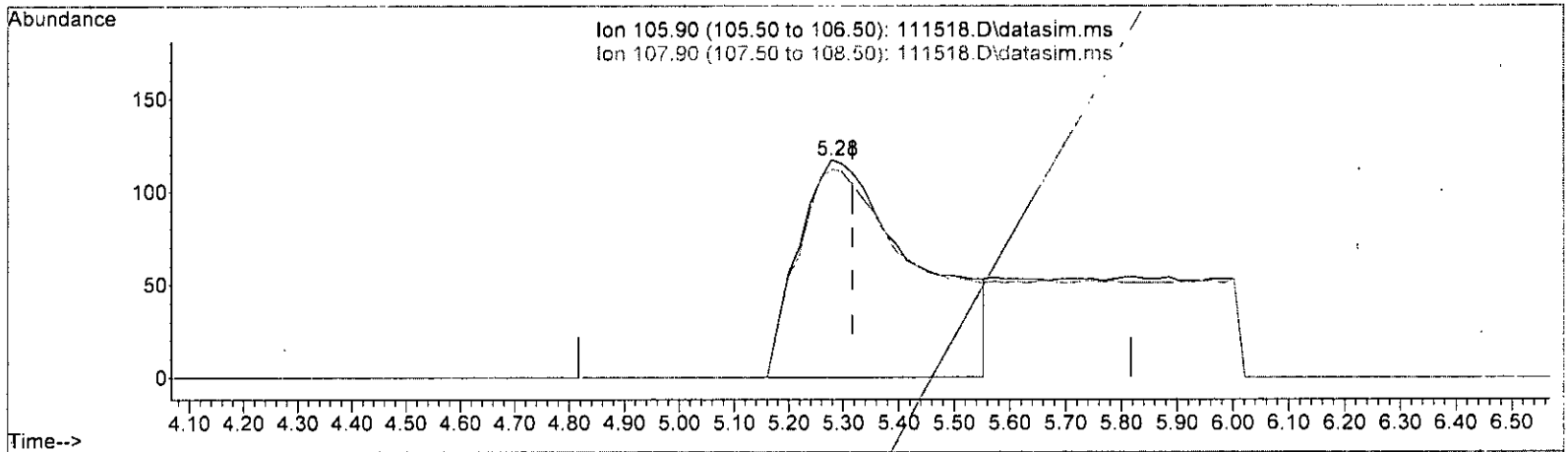
response	398	
Ion	Exp%	Act%
54.00	100.00	100.00
39.00	127.60	169.70#
53.00	72.40	90.91
27.00	0.00	169.70#

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(11) Vinyl bromide (TMP)  
 5.278min (-0.039) 0.186 ppbv  
 response 1890

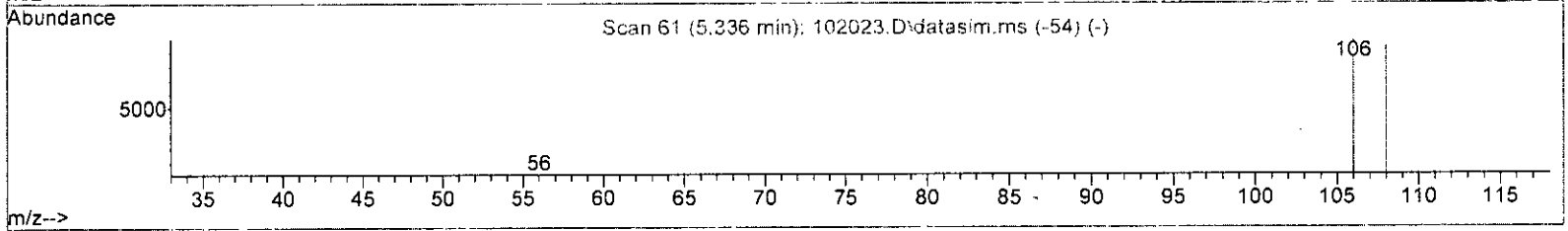
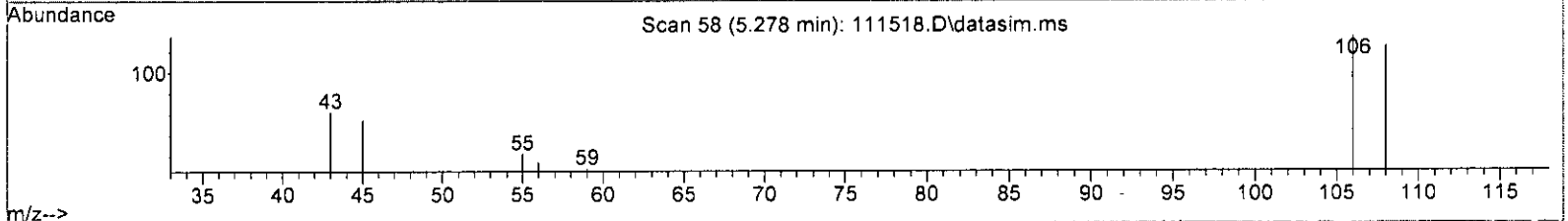
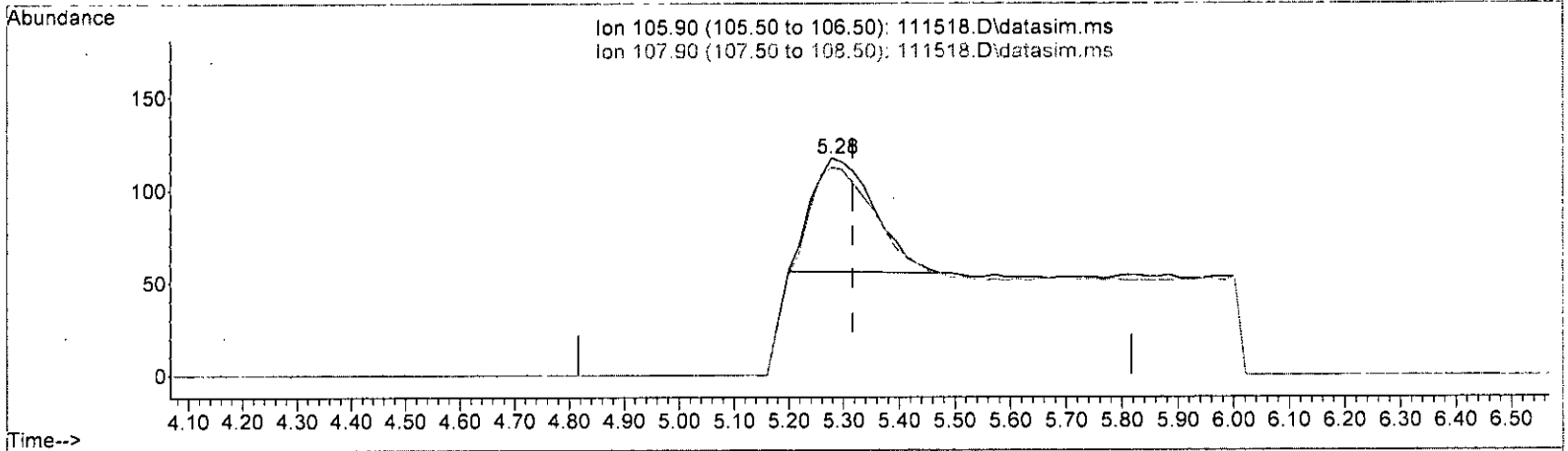
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	97.20
0.00	0.00	0.00
0.00	0.00	0.00

*u/11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(11) Vinyl bromide (TMP)

5.278min (-0.039) 0.048 ppbv m

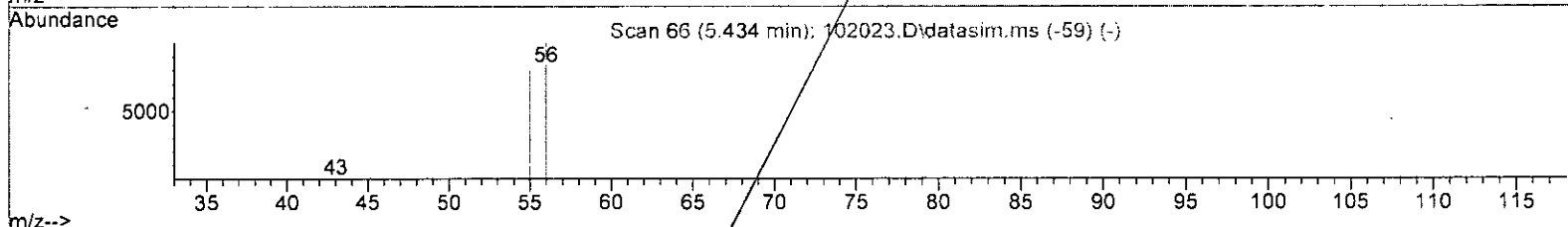
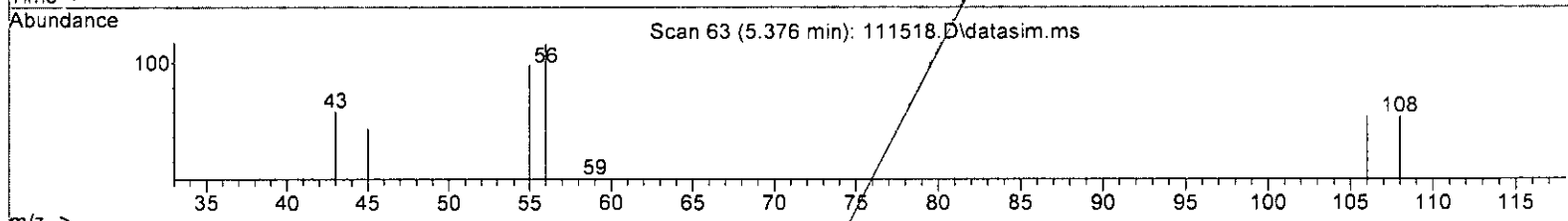
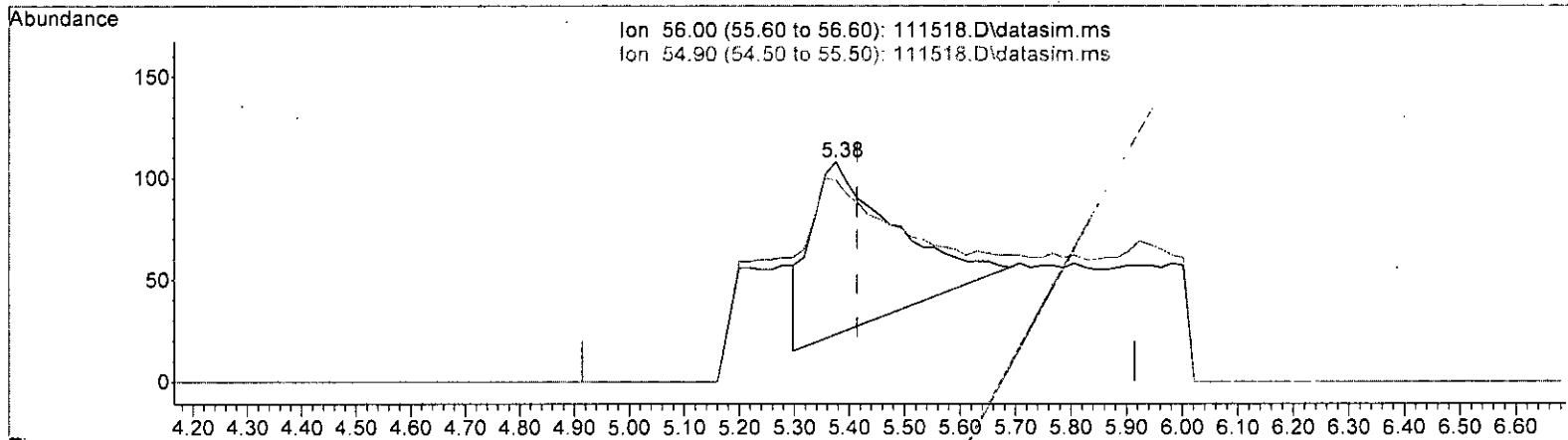
response	483	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	380.33#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-1960  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(13) Acrolein (TMP)		
5.376min (-0.039)	0.195 ppbv	
response	898	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	276.39#
0.00	0.00	0.00
0.00	0.00	0.00

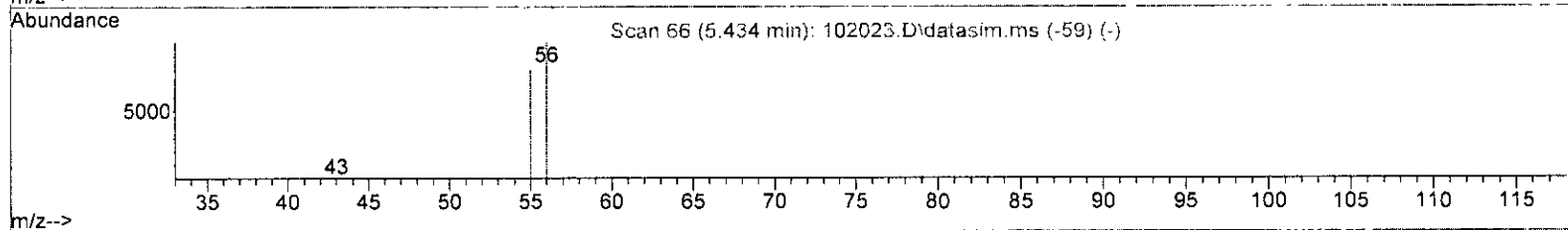
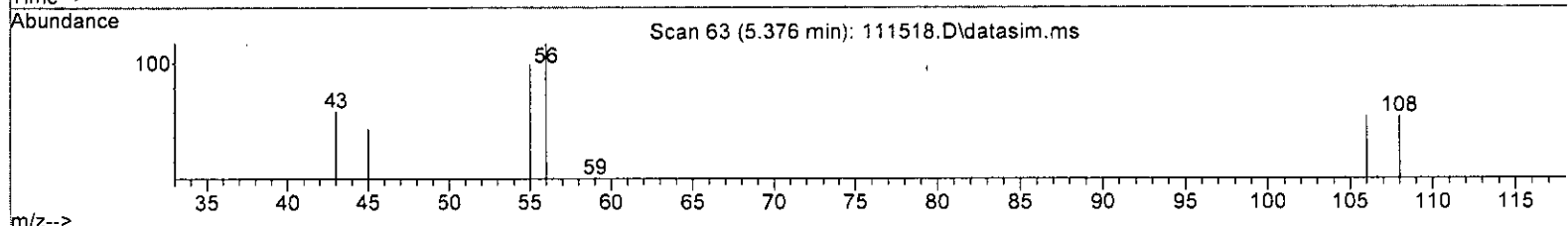
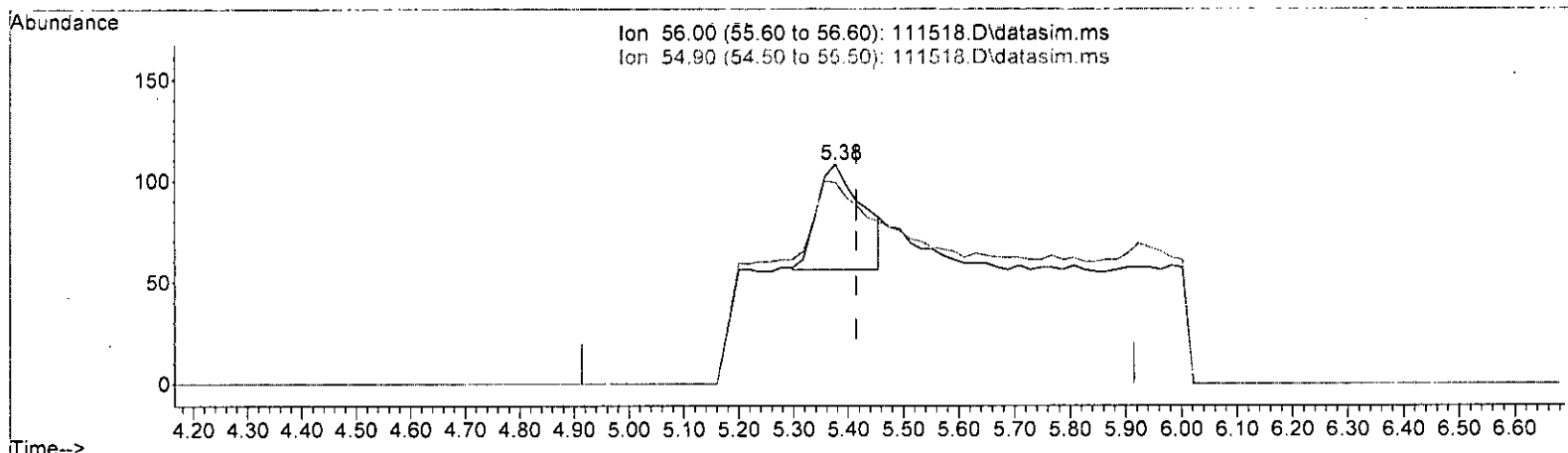
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(13) Acrolein (TMP)

5.376min (-0.039) 0.066 ppbv m

response 304

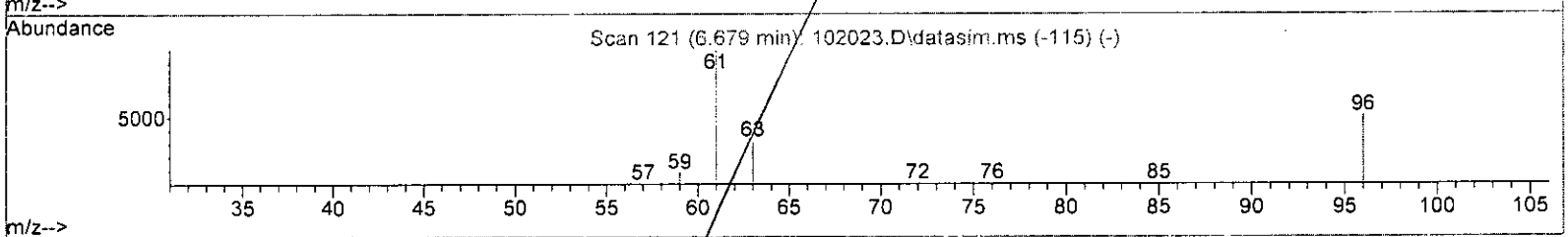
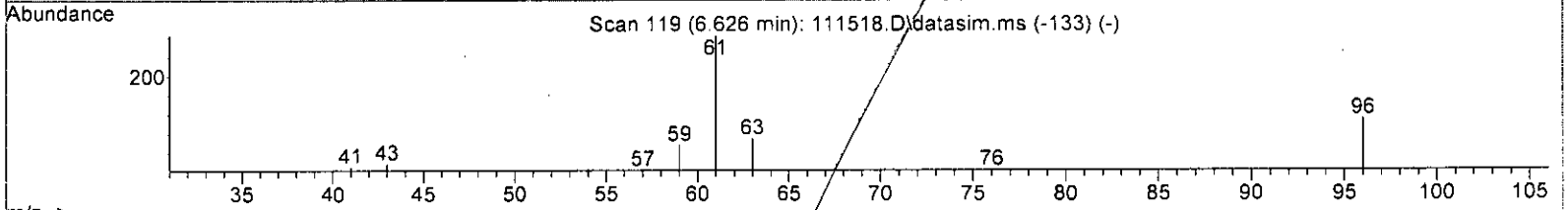
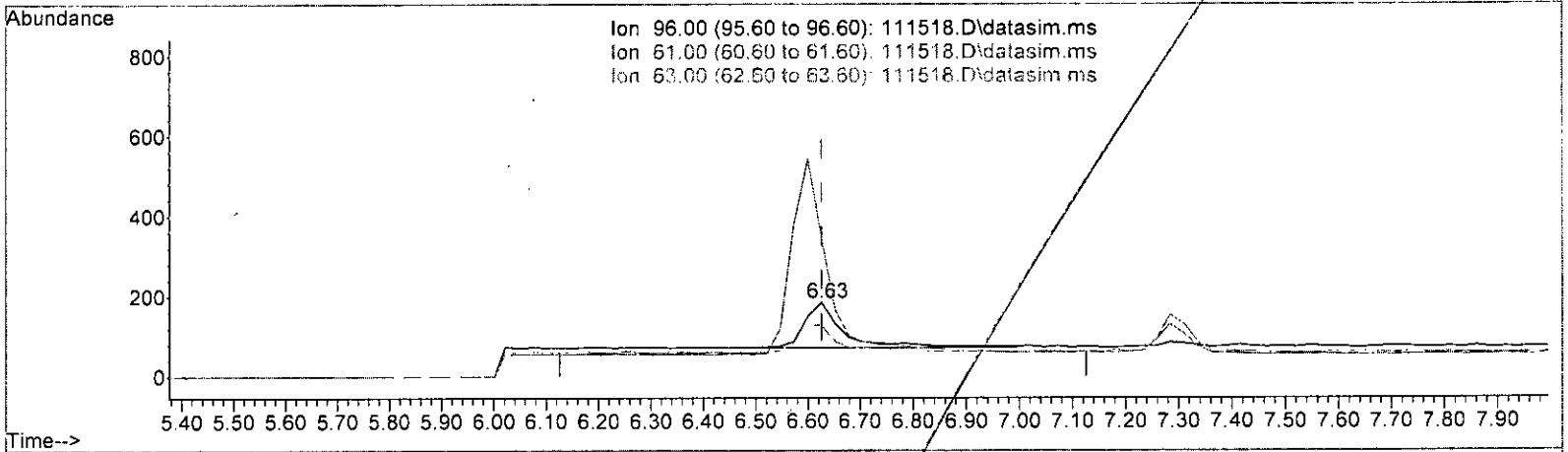
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	816.45#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

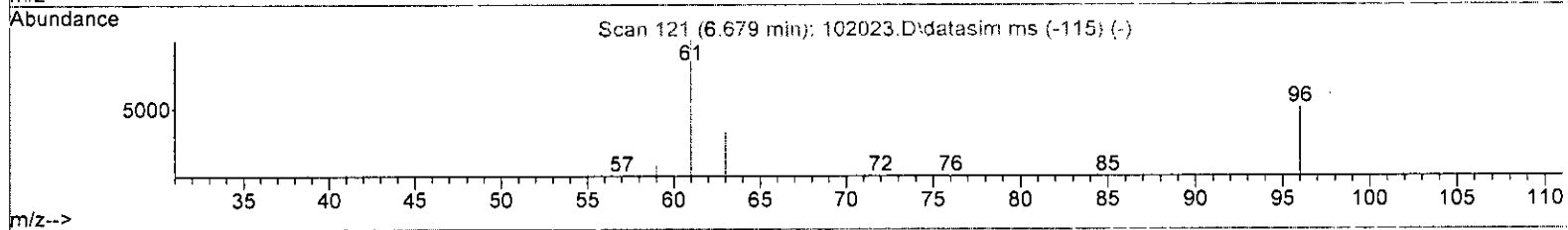
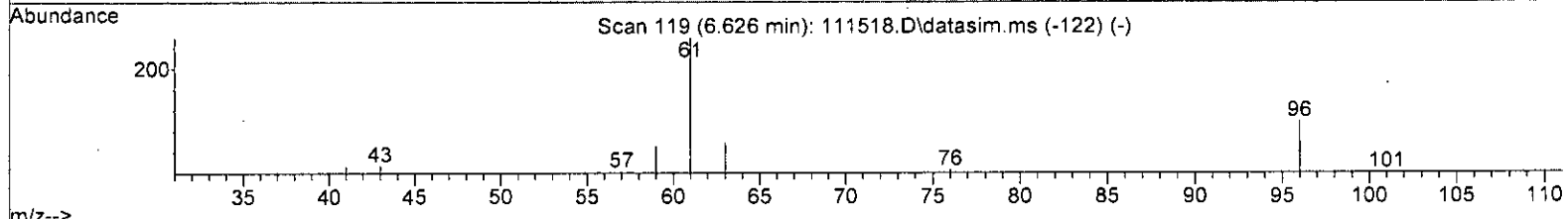
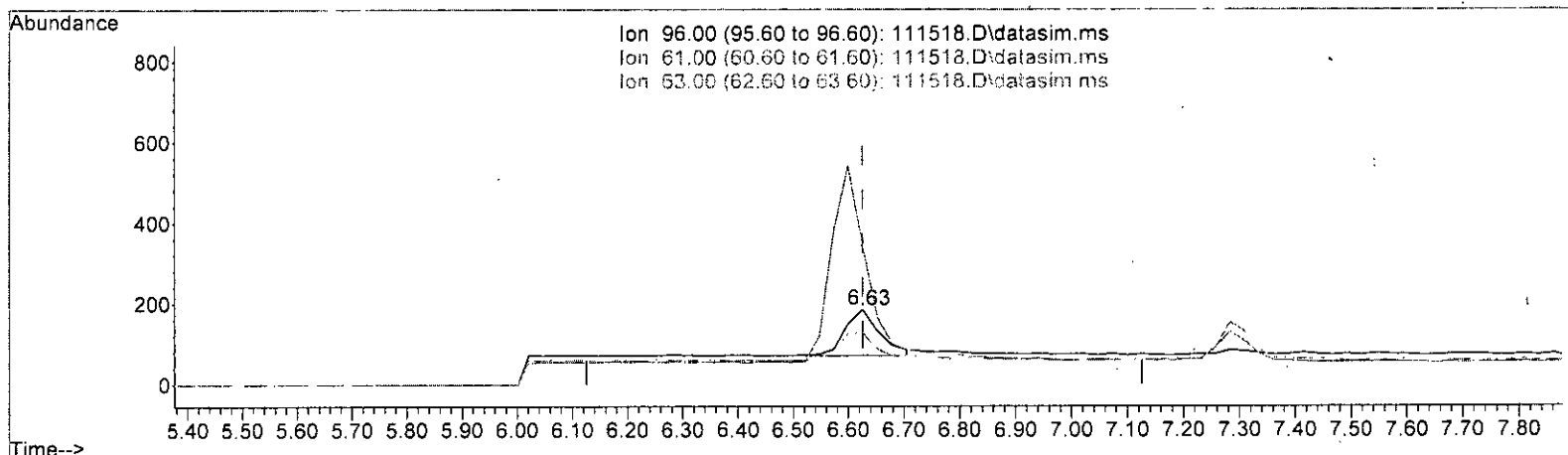
(18) 1,1-Dichloroethene (TMP)		
6.626min (+ 0.000)	0.059 ppbv	
response	617	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	189.00	255.75#
63.00	62.00	60.18
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(18) 1,1-Dichloroethene (TMP)

6.626min (+ 0.000) 0.048 ppbv m

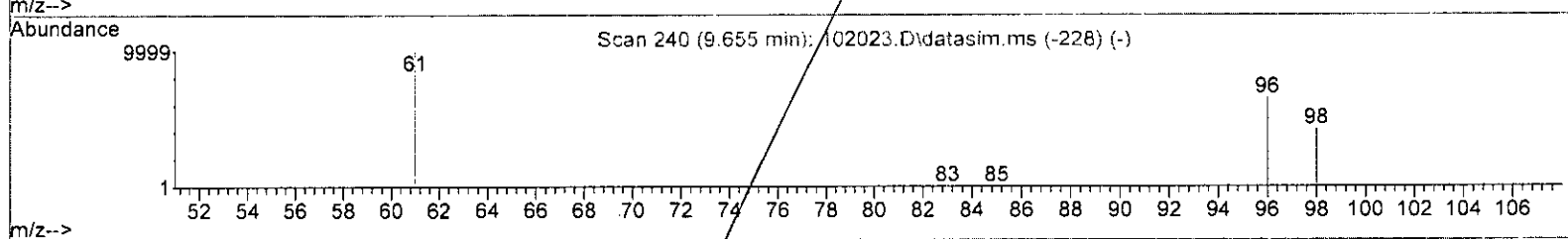
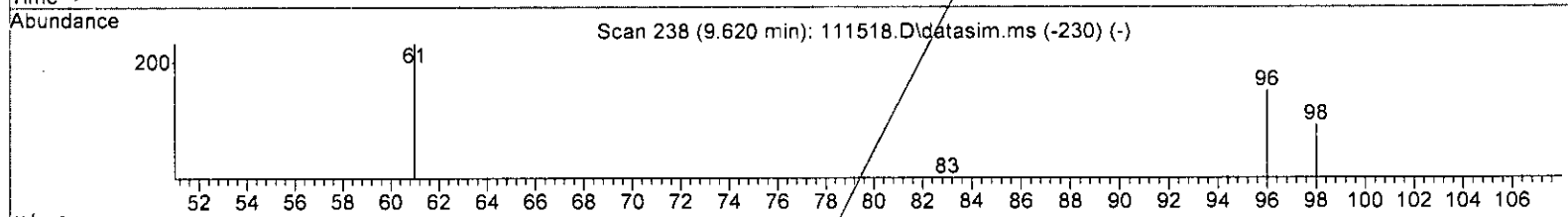
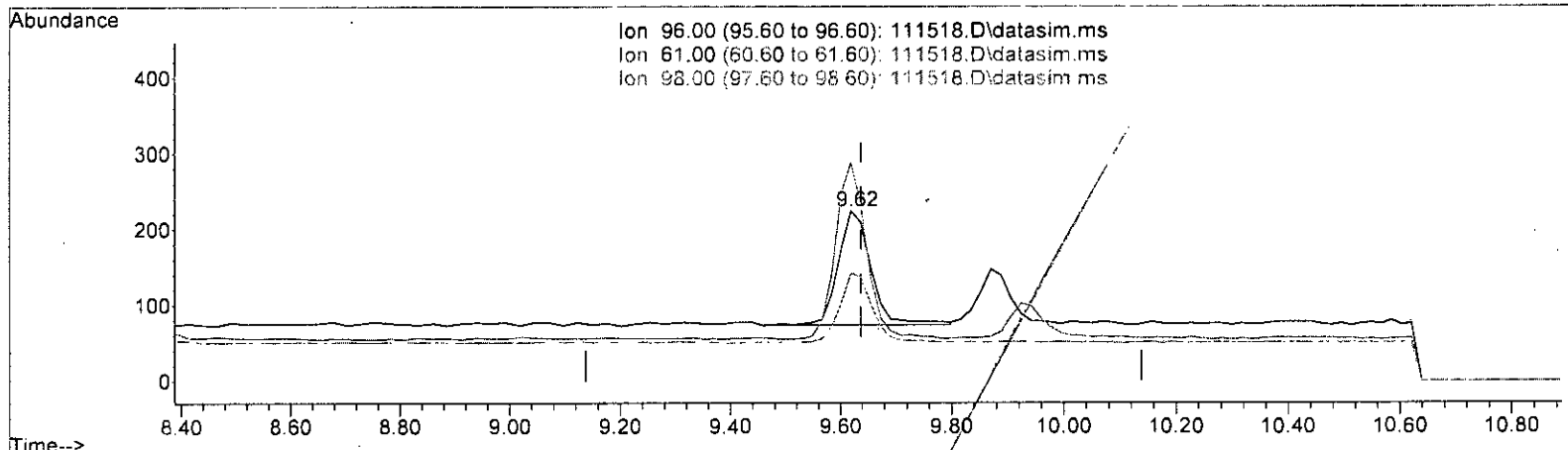
response	495	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	189.00	187.50
63.00	62.00	69.57
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCM57 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(28) cis-1,2-Dichloroethene (TMP)  
 9.620min (-0.018) 0.058 ppbv

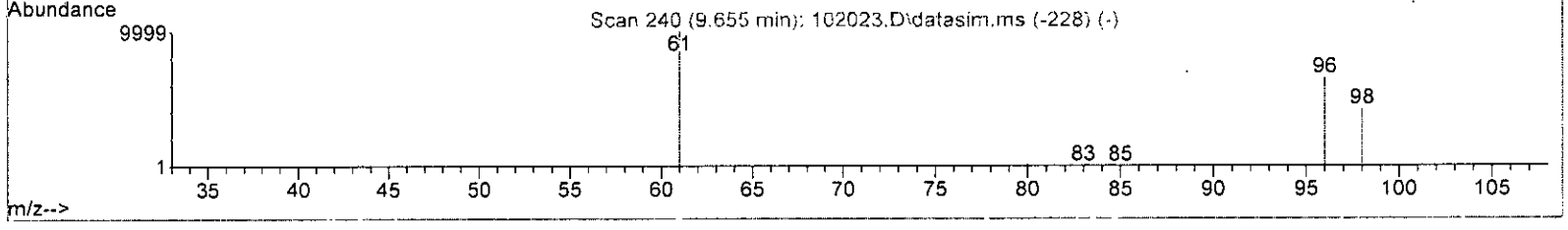
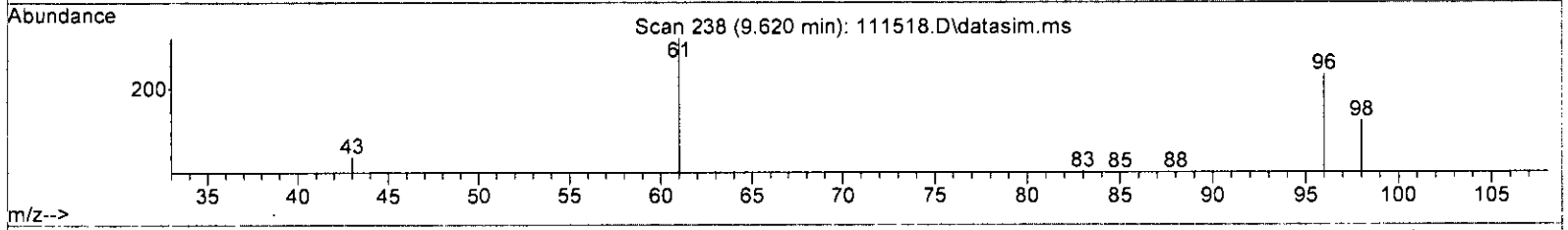
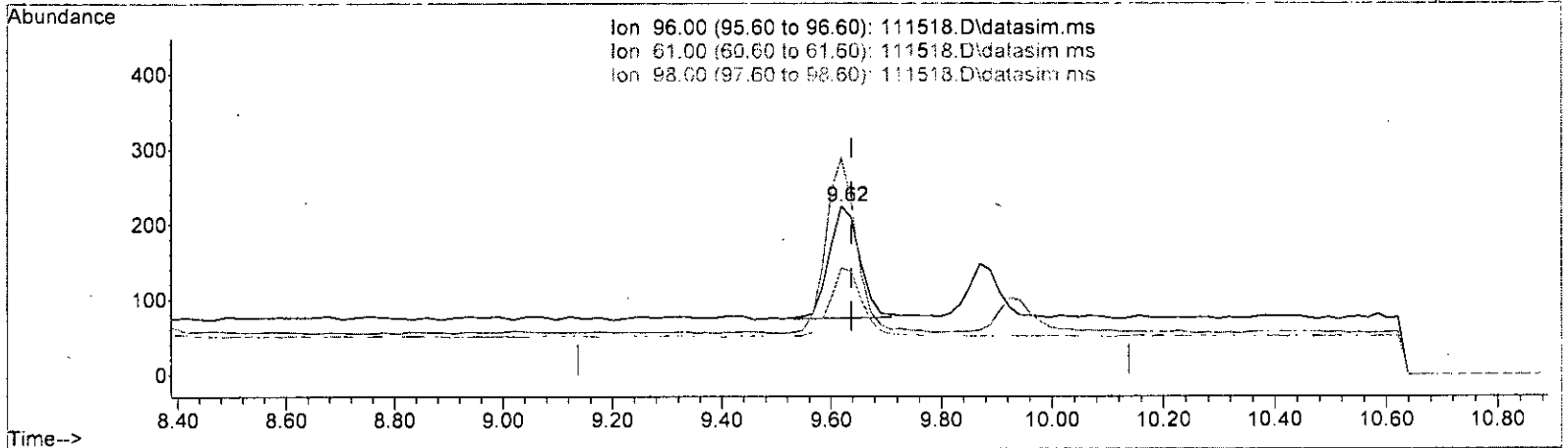
response	614
Ion	Exp% Act%
96.00	100.00 100.00
61.00	146.00 154.67
98.00	65.20 60.67
0.00	0.00 0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(28) cis-1,2-Dichloroethene (TMP)  
 9.620min (-0.018) 0.054 ppbv m

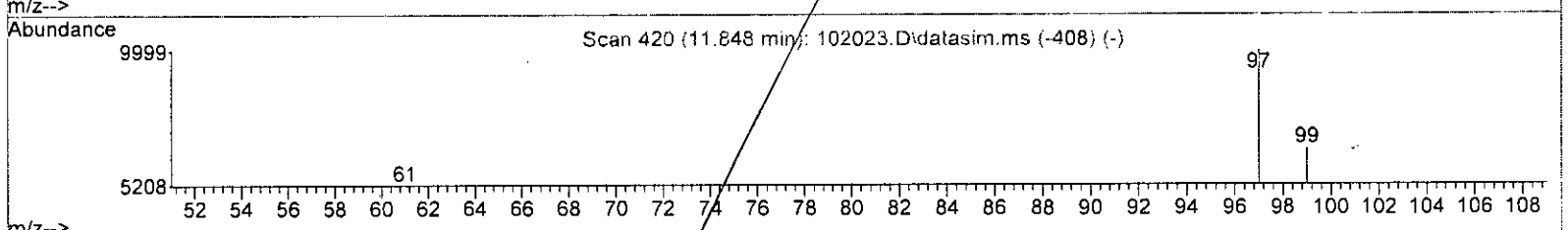
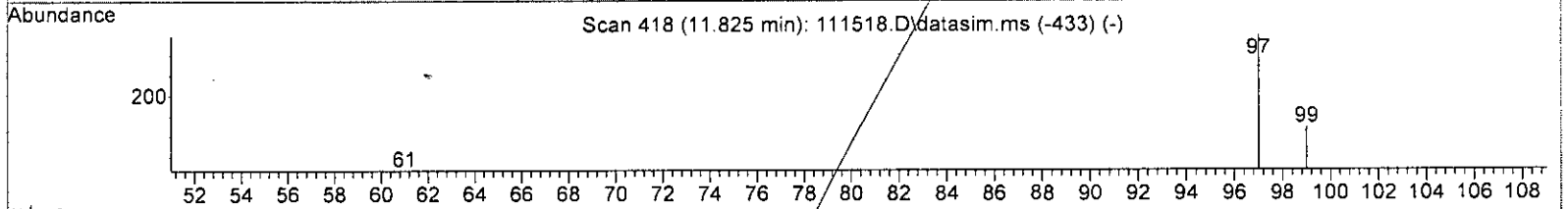
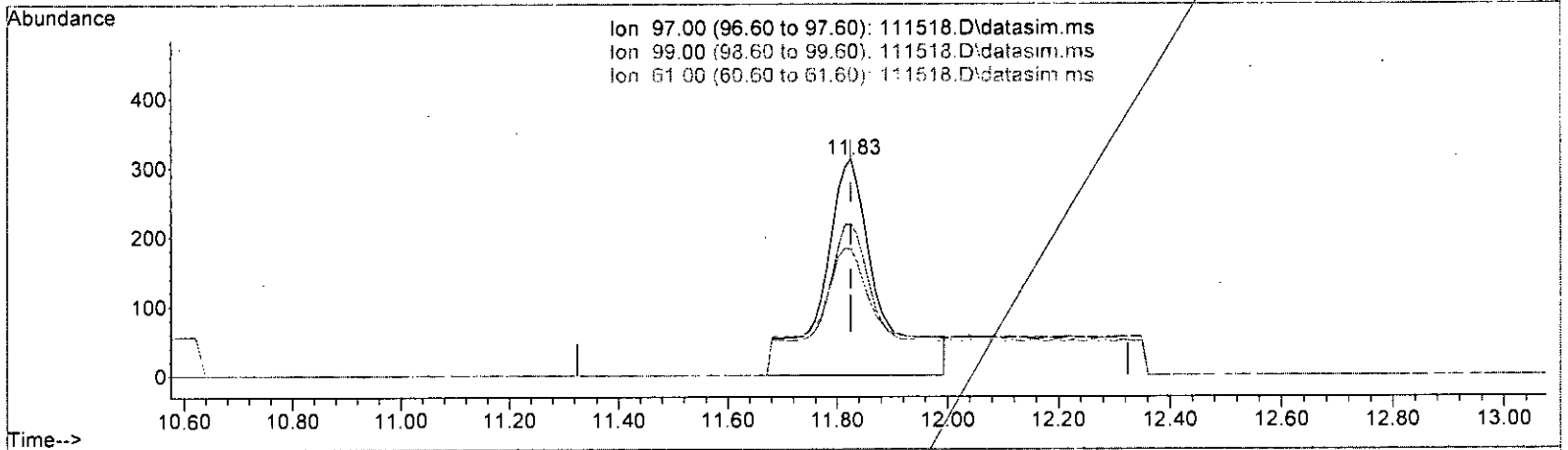
response	579	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	146.00	128.57
98.00	65.20	63.39
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 0.103 ppbv

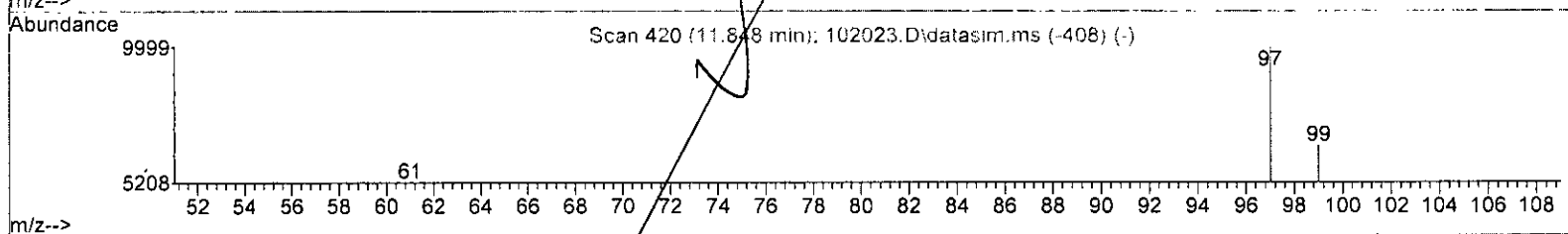
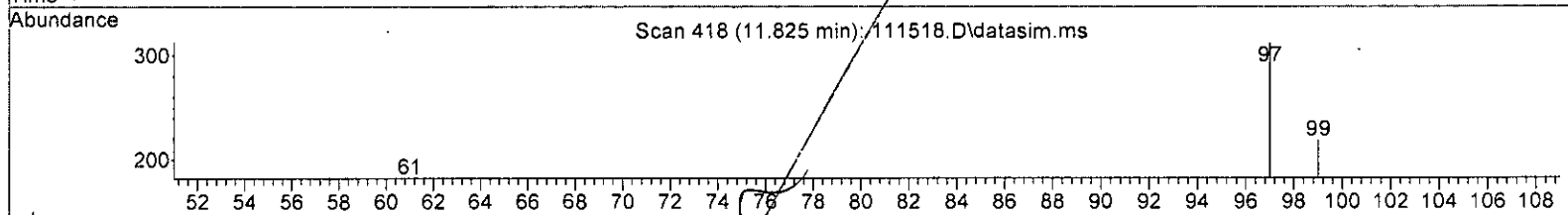
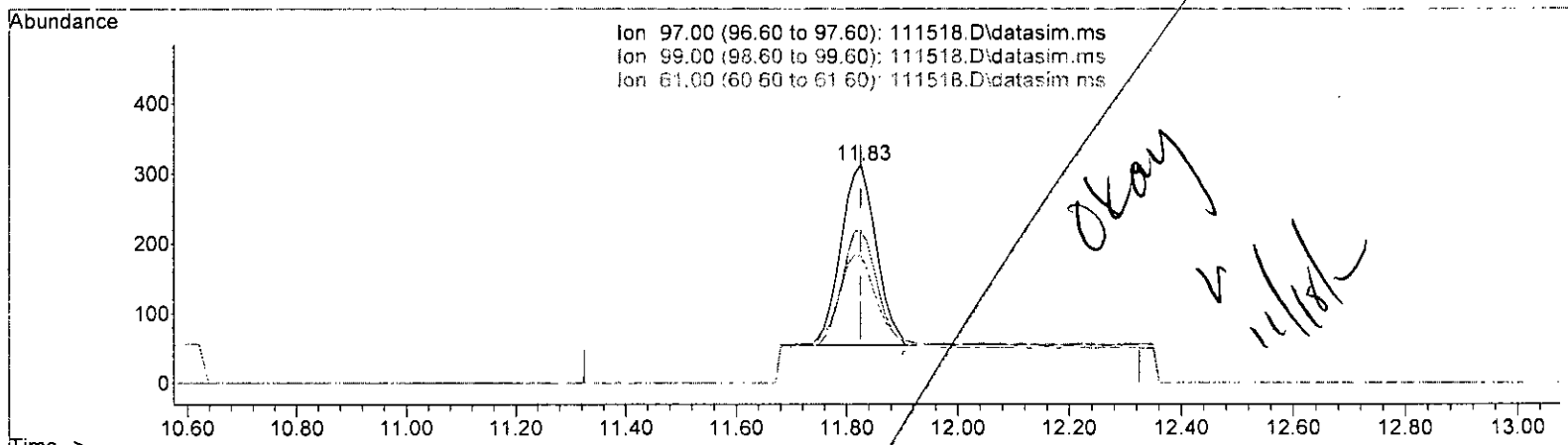
response	2175
Ion	Exp% Act%
97.00	100.00 100.00
99.00	61.70 69.87
61.00	49.30 58.33
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 0.054 ppbv m

response 1144

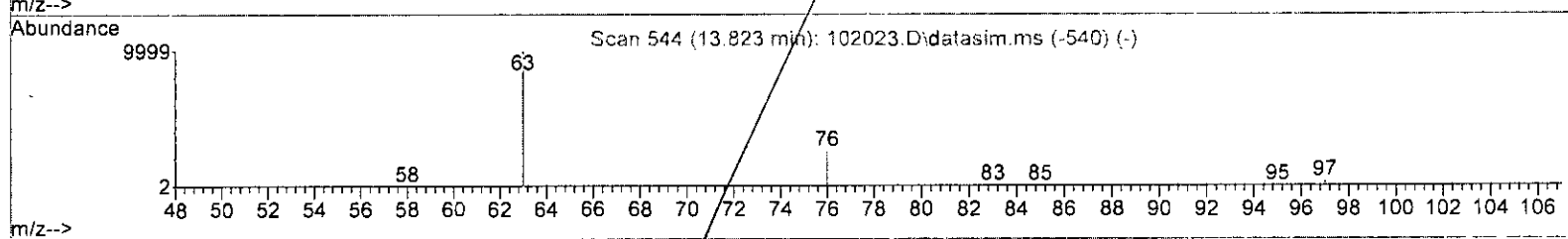
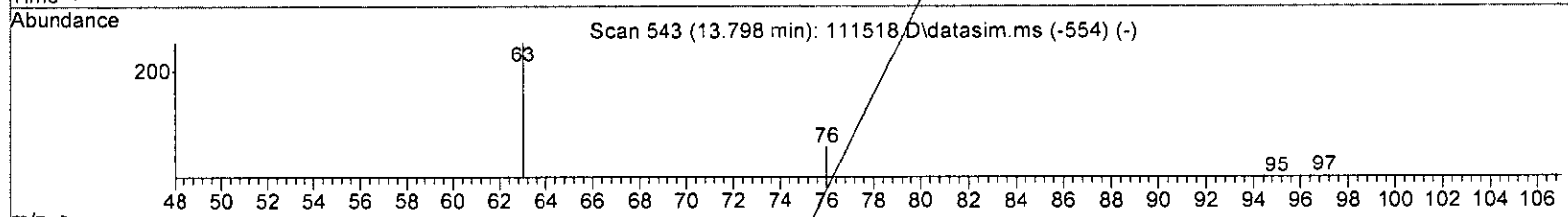
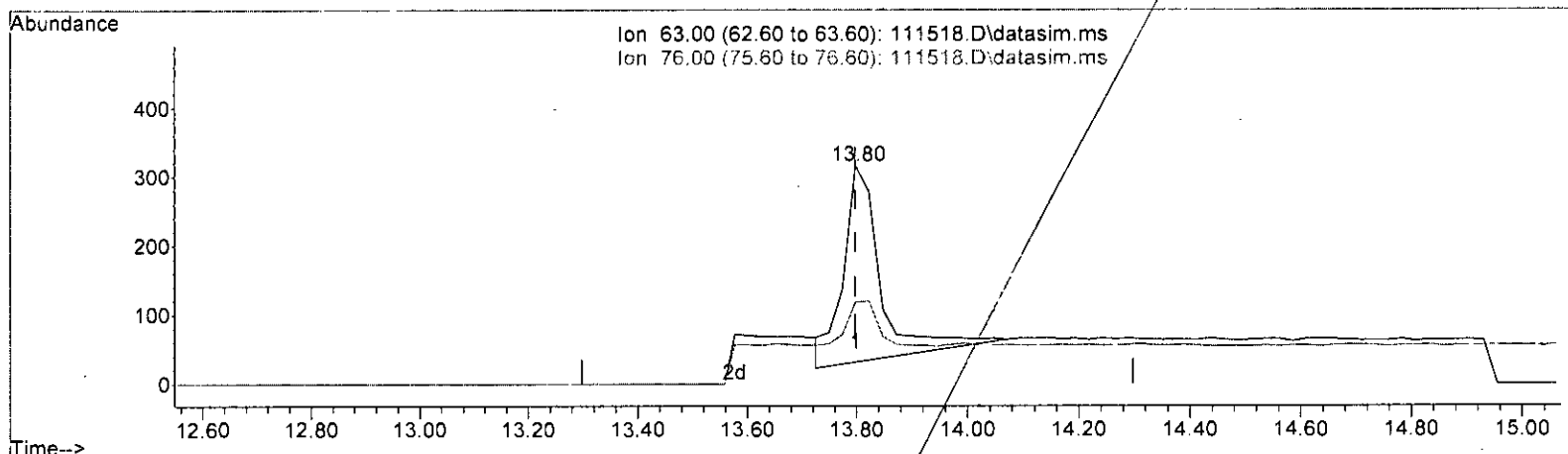
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	69.87
61.00	49.30	58.33
0.00	0.00	0.00

11/18/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(40) 1,2-Dichloropropane (TMP)			
13.798min	(+ 0.000)	0.088	ppbv
response	1336		
Ion	Exp%	Act%	
63.00	100.00	100.00	
76.00	25.70	24.60	
0.00	0.00	0.00	
0.00	0.00	0.00	

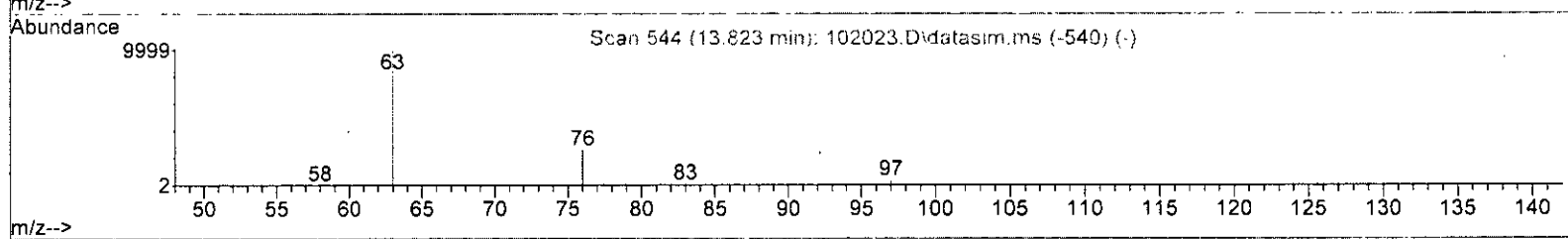
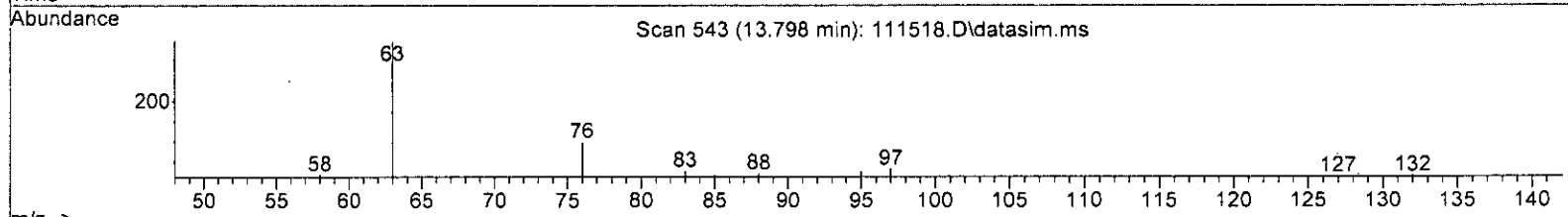
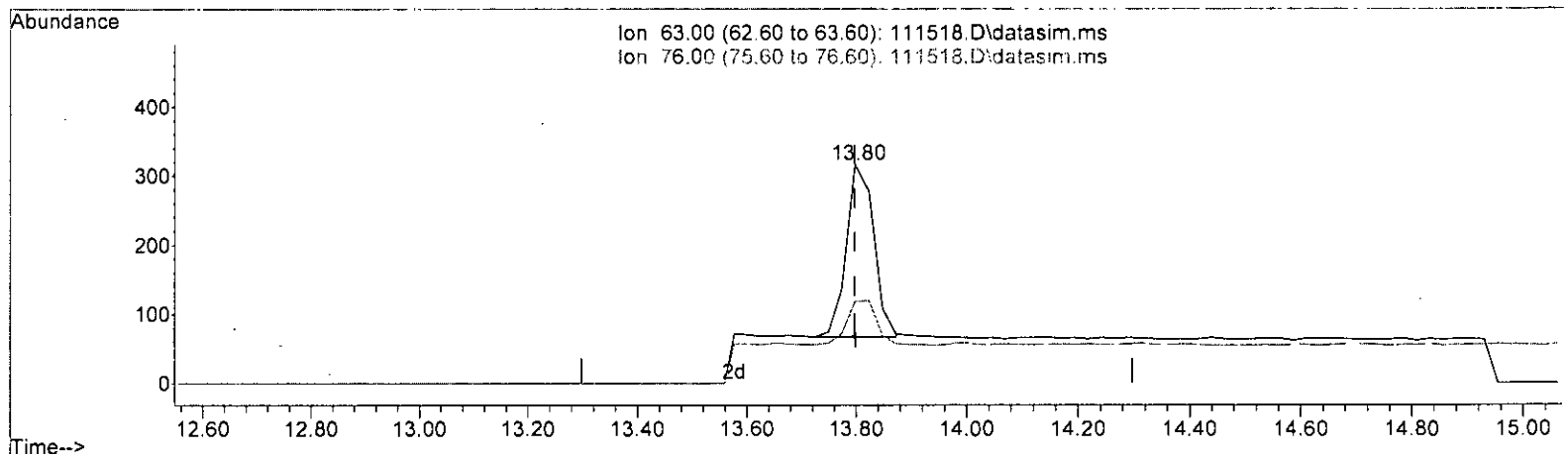
*Handwritten signature: 6/1/2022*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(40) 1,2-Dichloropropane (TMP)  
 13.798min (+ 0.000) 0.056 ppbv m

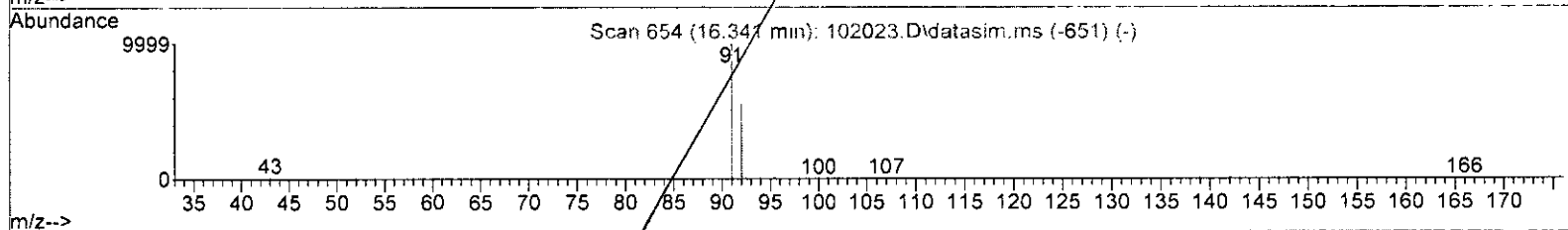
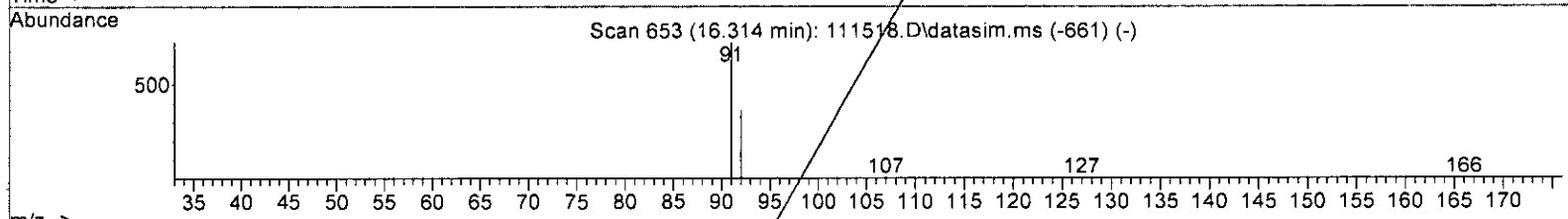
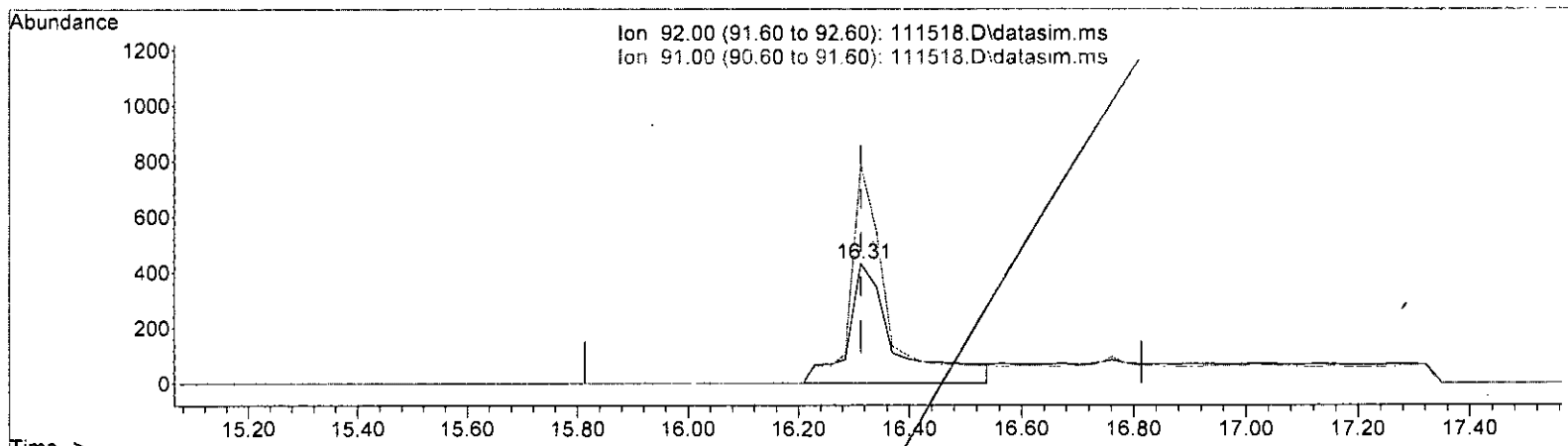
response	856	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	37.34
0.00	0.00	0.00
0.00	0.00	0.00

W  
11/18/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(50) Toluene (TMP)

16.314min (-0.000) 0.127 ppbv

response 2526

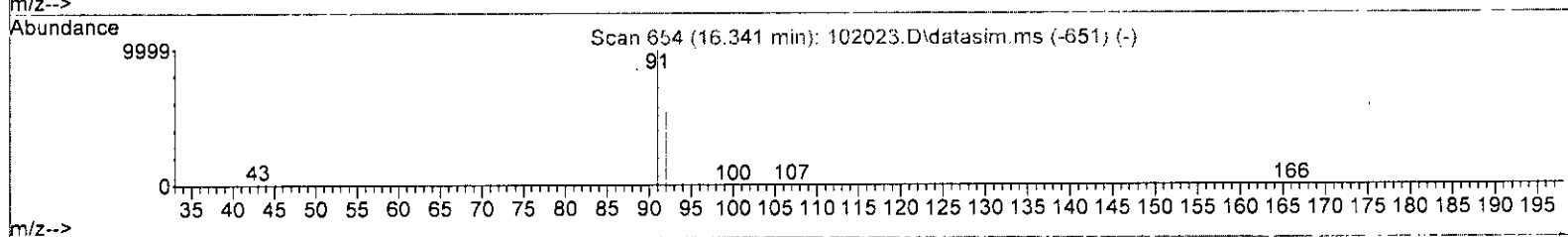
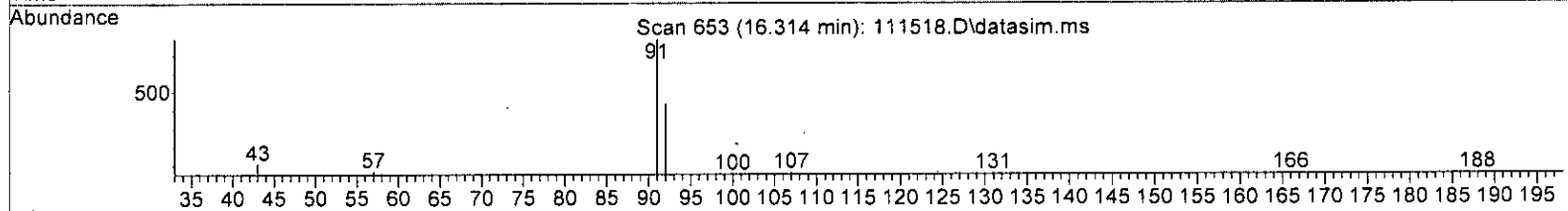
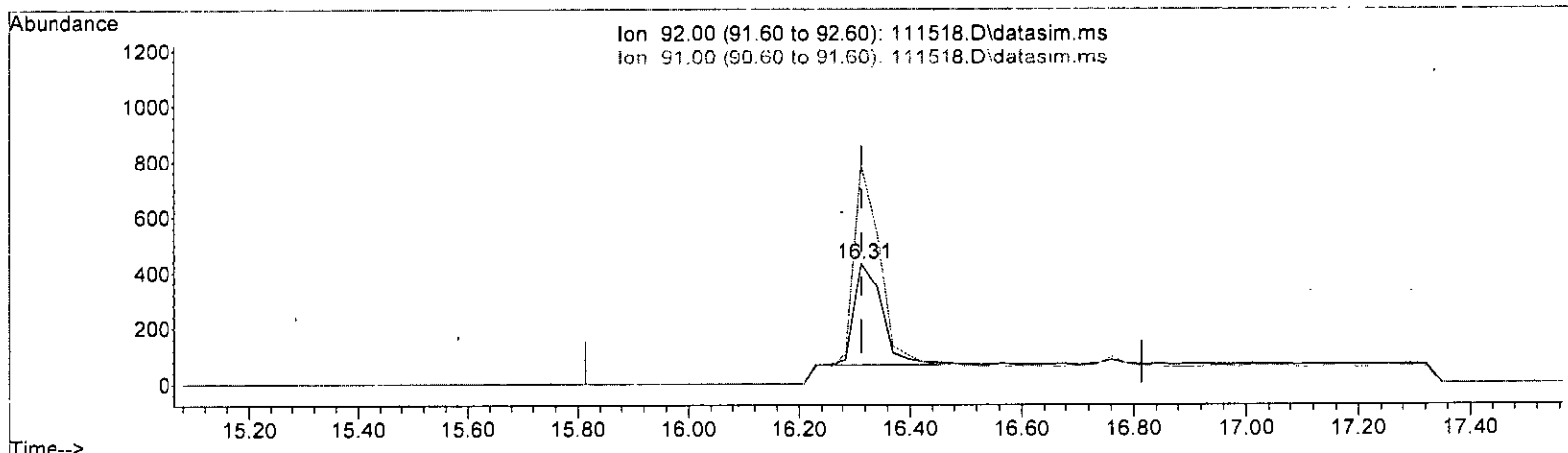
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	182.13
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

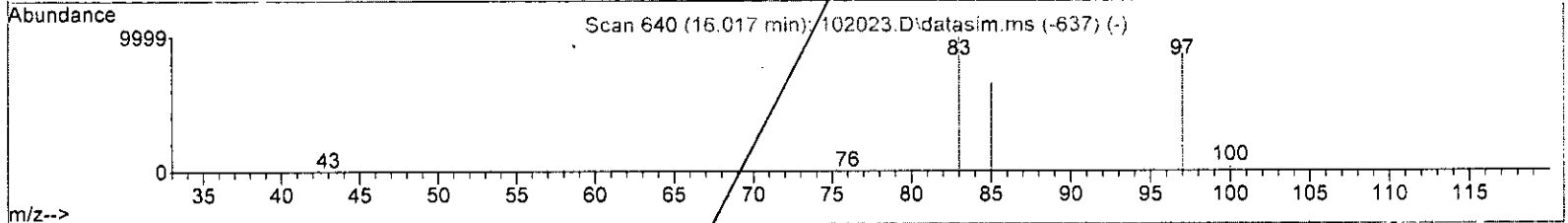
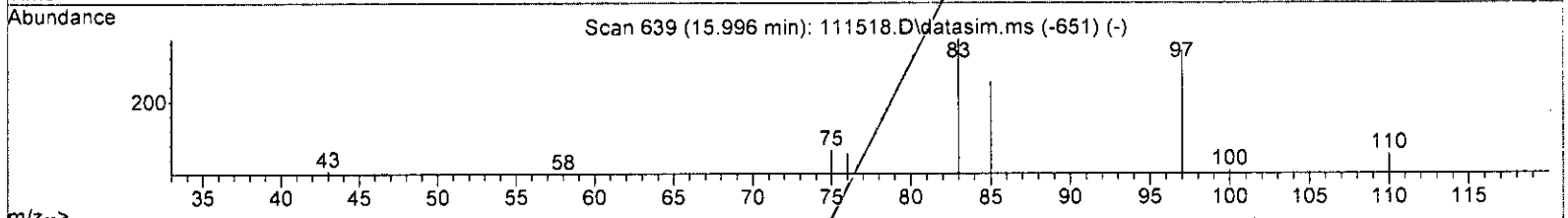
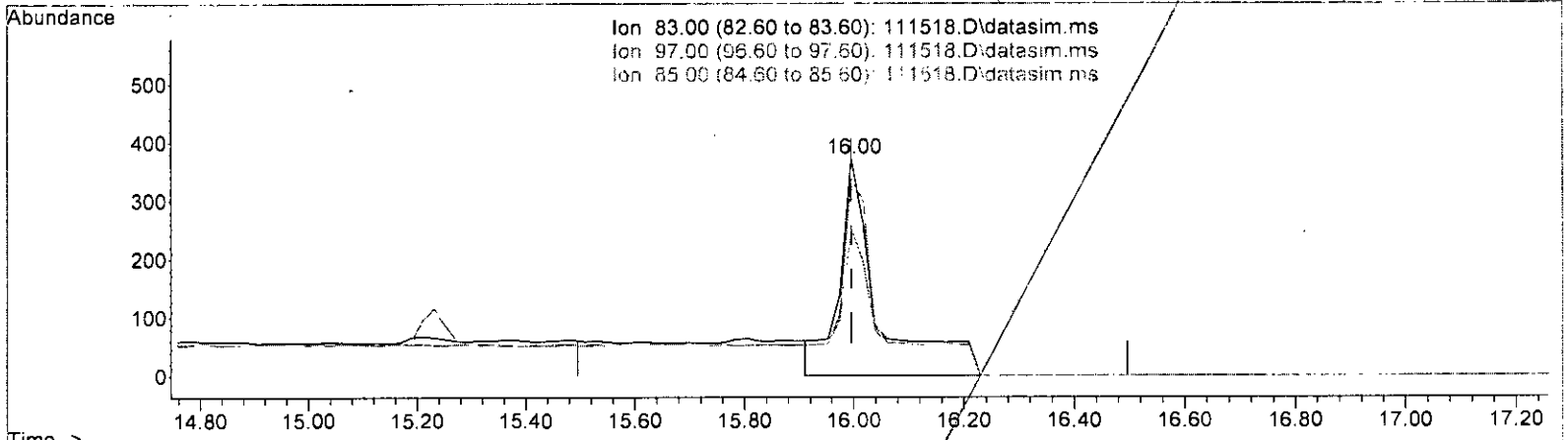
(50) Toluene (TMP)		
16.314min (-0.000)	0.063 ppbv m	
response	1263	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	182.13
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111518.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)  
 15.996min (-0.000) 0.122 ppbv  
 response 1887

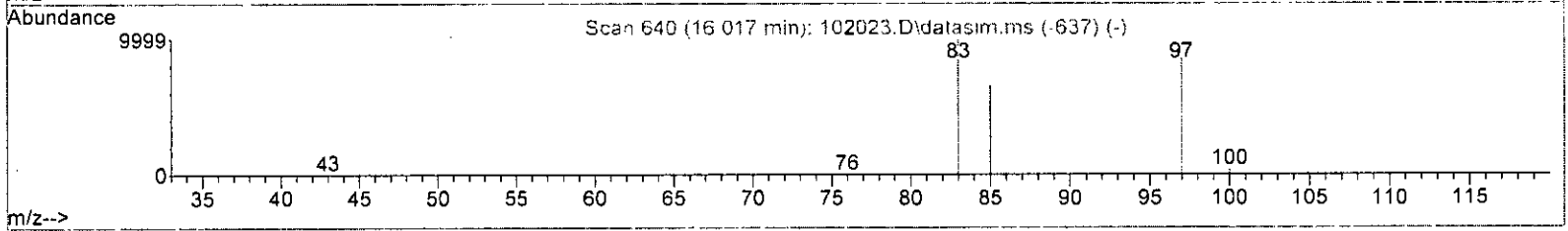
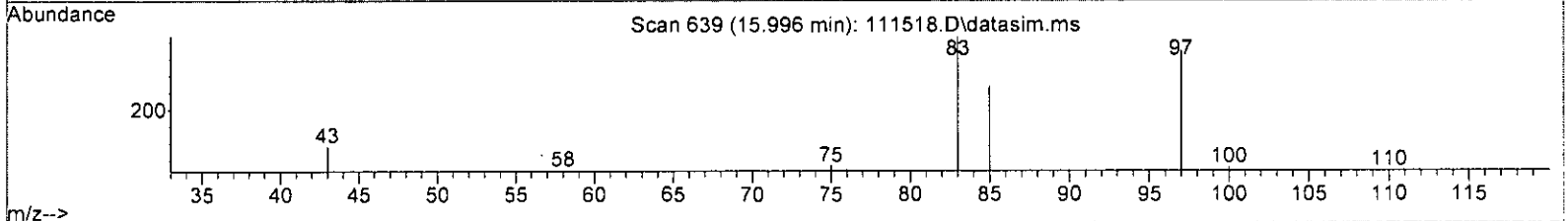
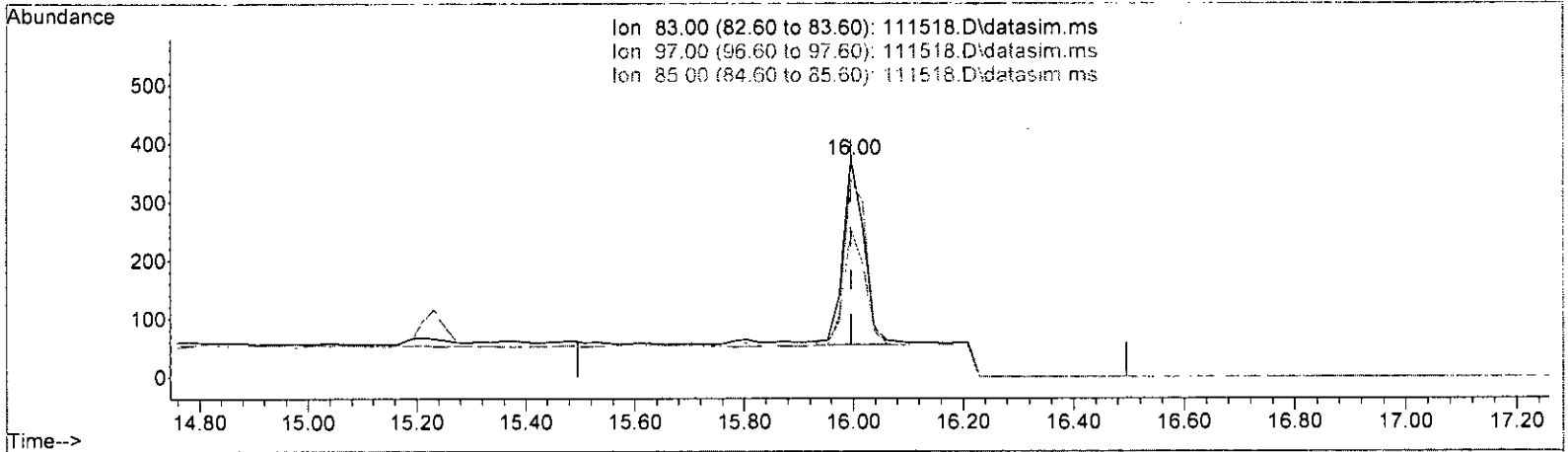
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	90.59
85.00	60.50	68.01
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)  
 15.996min (-0.000) 0.052 ppbv m  
 response 841

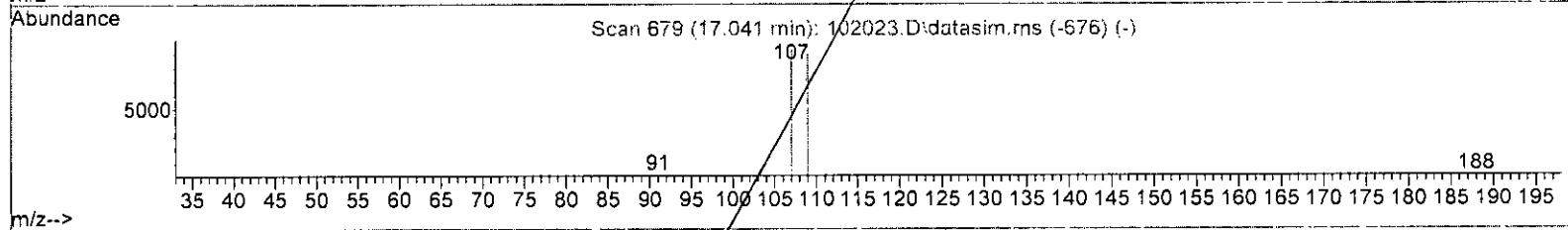
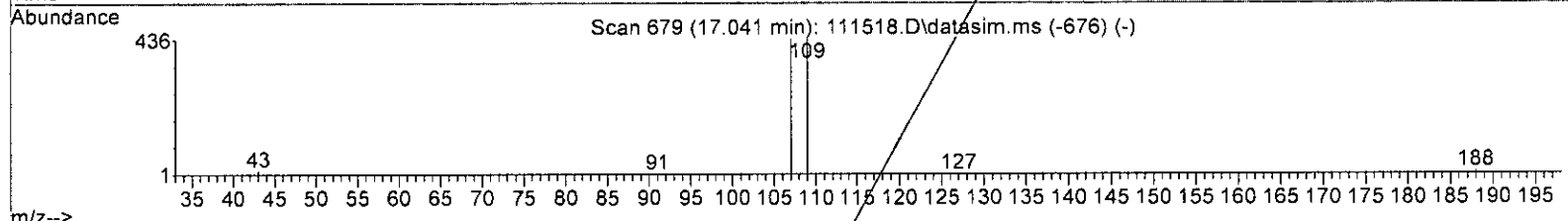
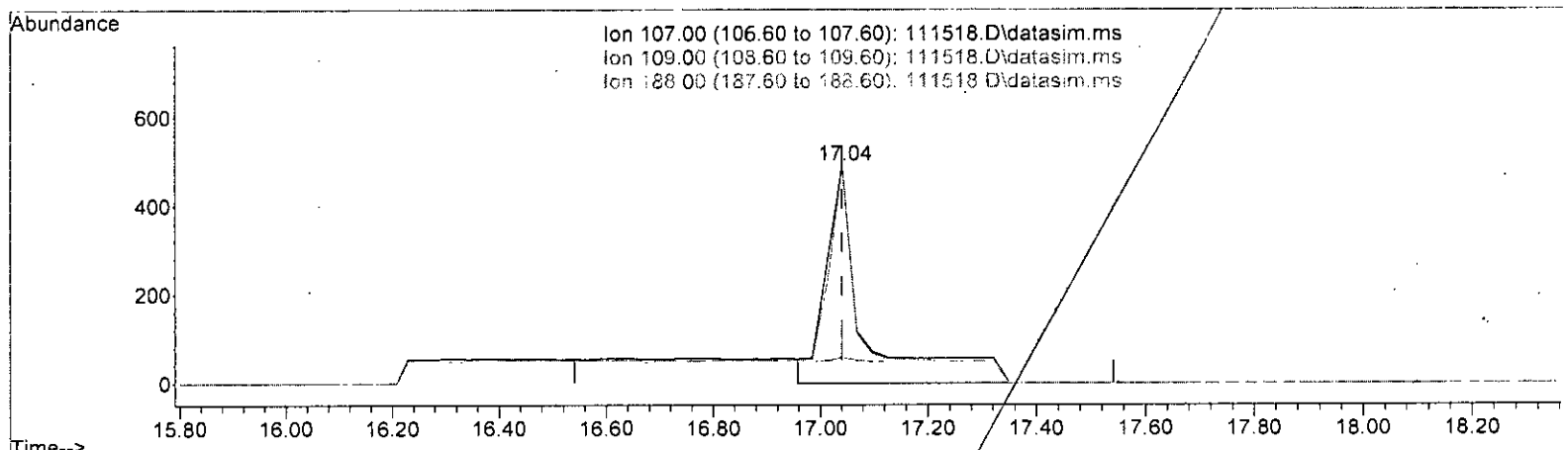
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	90.59
85.00	60.50	68.01
0.00	0.00	0.00

*W/Alaska*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

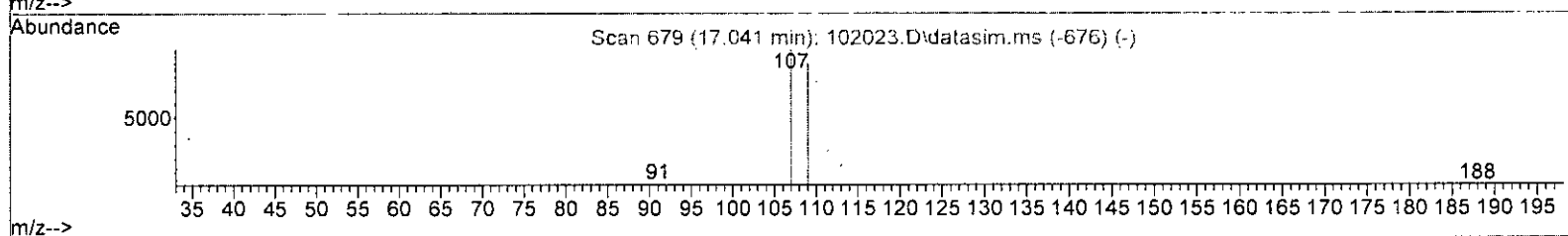
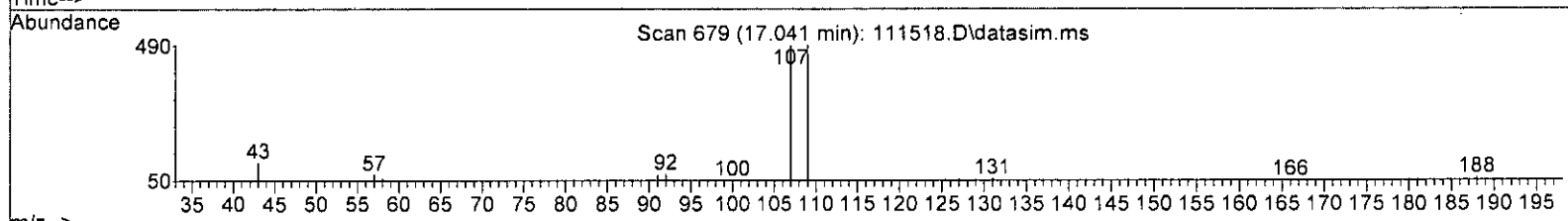
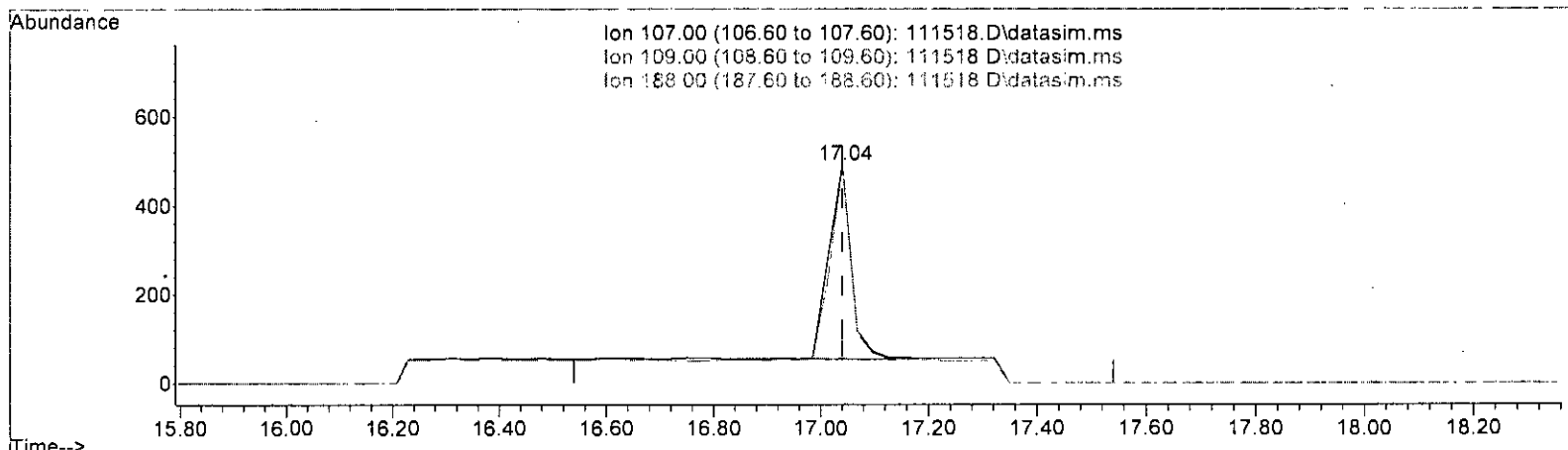
(55) 1,2-Dibromoethane (EDB) (TMP)		
17.041min (+ 0.000)	0.103 ppbv	
response	2373	
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	99.59
188.00	2.70	11.81
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.041min (+ 0.000) 0.052 ppbv m

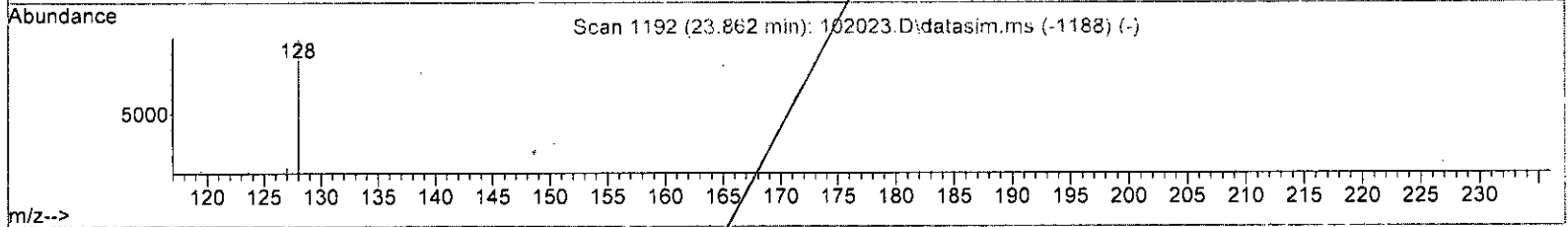
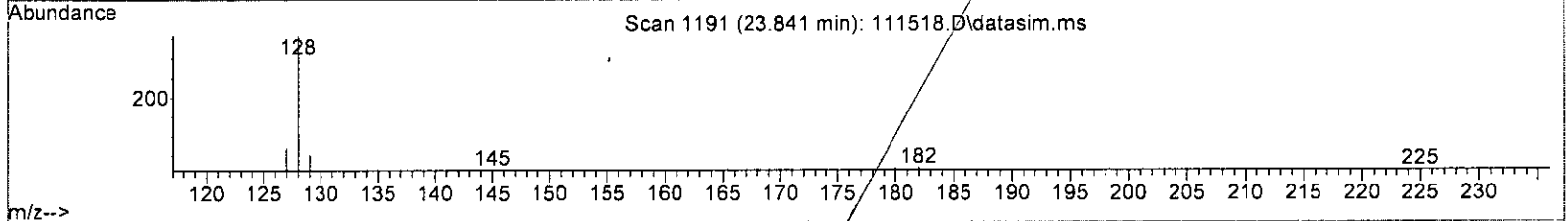
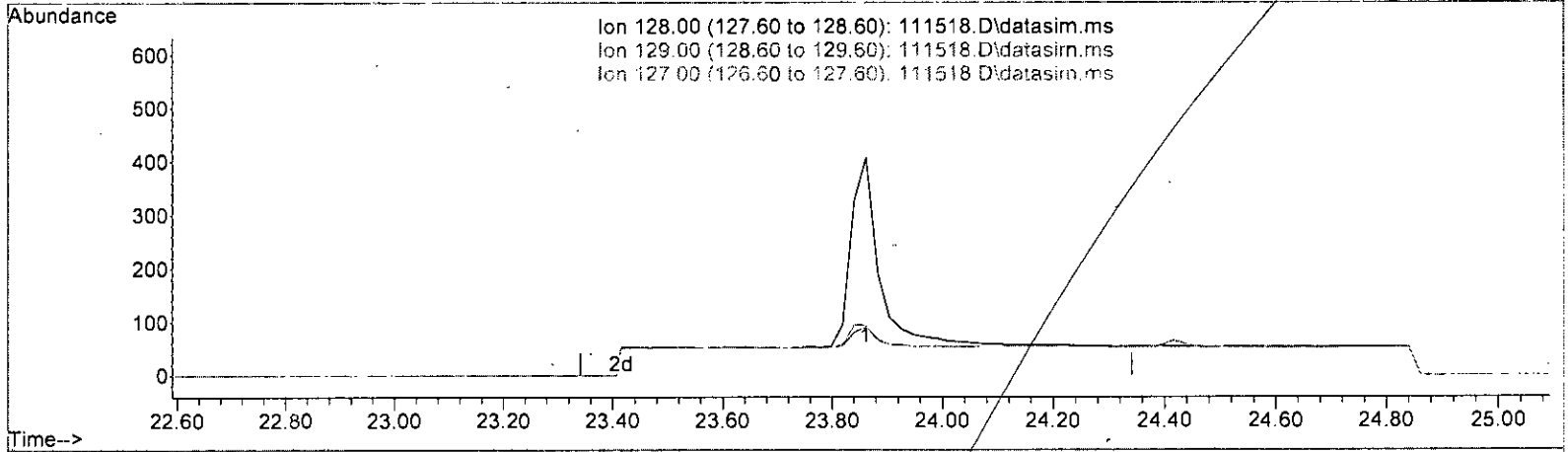
response	1266	
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	99.59
188.00	2.70	11.81
0.00	0.00	0.00

*W. Hester*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(77) Naphthalene (TMP)

23.841min 0.000 ppbv d  
 response 0

Ion	Exp%	Act%
128.00	100.00	0.00
129.00	11.00	0.00
127.00	13.20	0.00
0.00	0.00	0.00

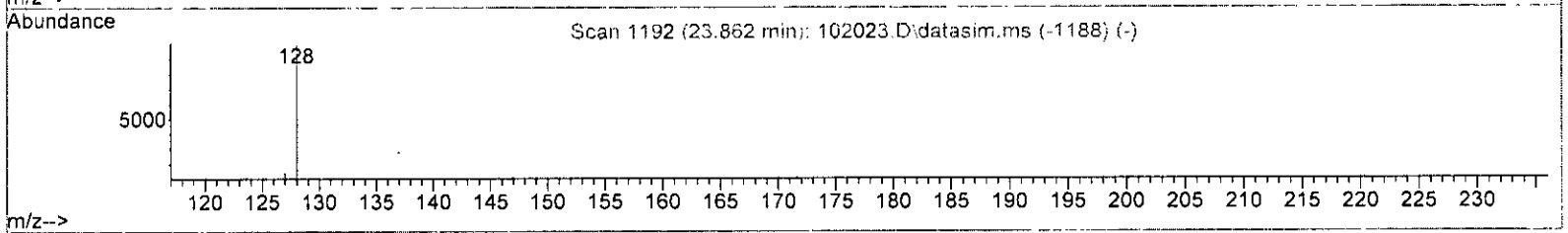
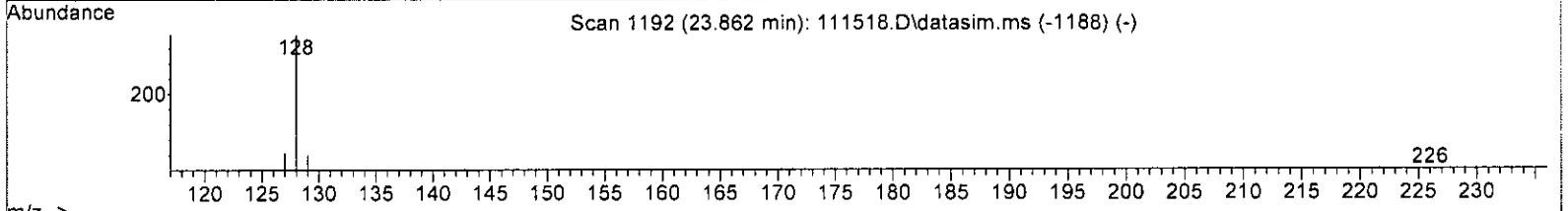
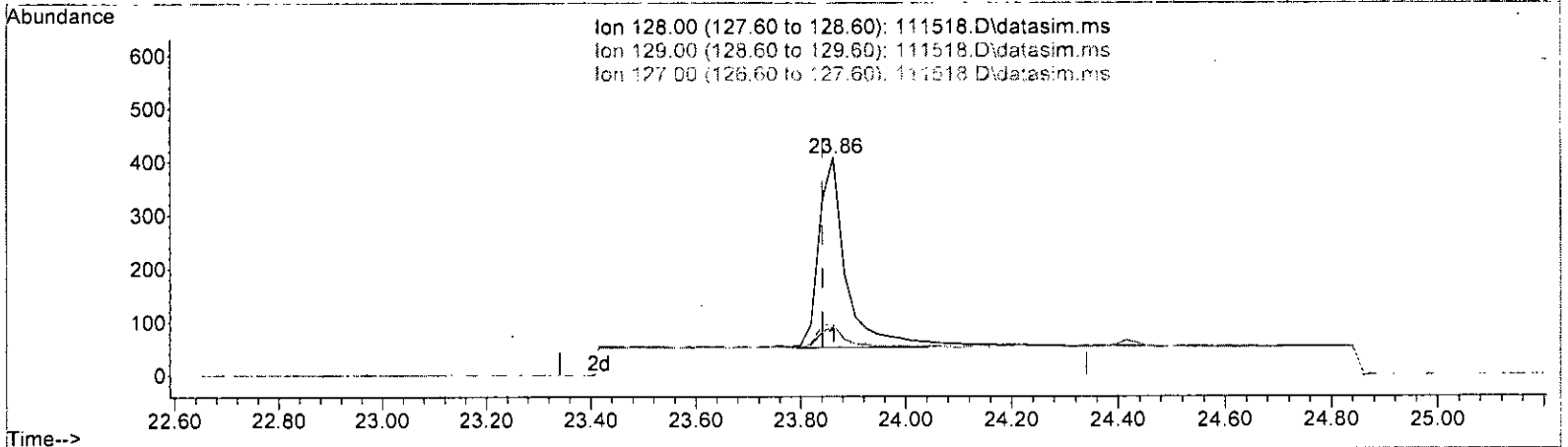
*Handwritten signature*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

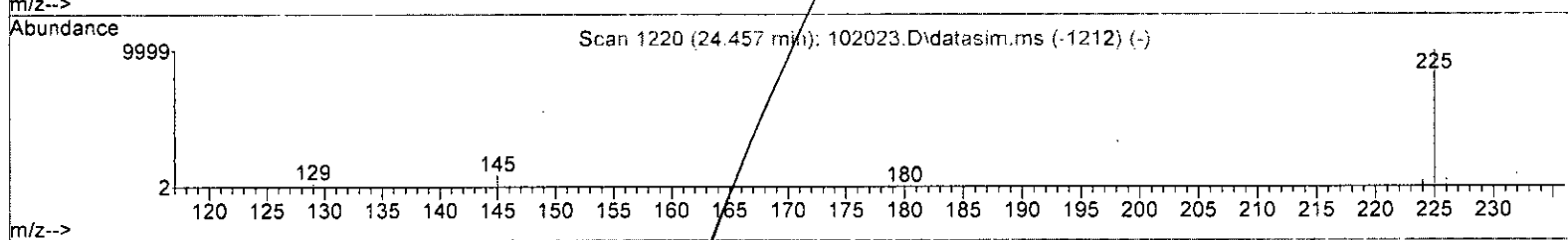
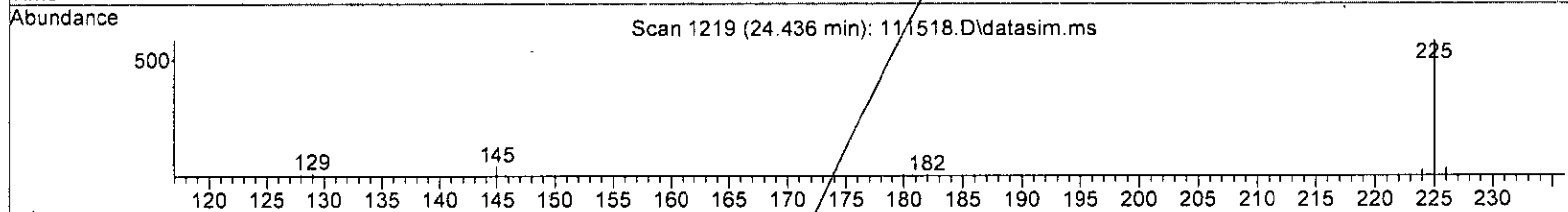
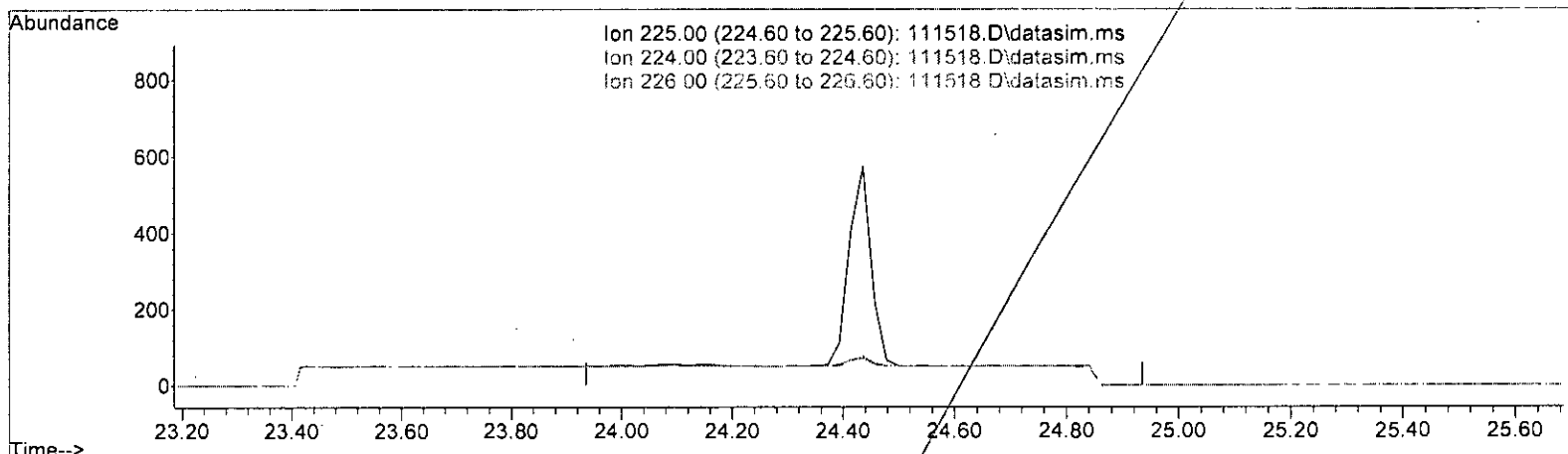
(77) Naphthalene (TMP)		
23.862min (+ 0.021)	0.046 ppbv m	
response	1321	
Ion	Exp%	Act%
128.00	100.00	100.00
129.00	11.00	22.36
127.00	13.20	23.34
0.00	0.00	0.00

6/11/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

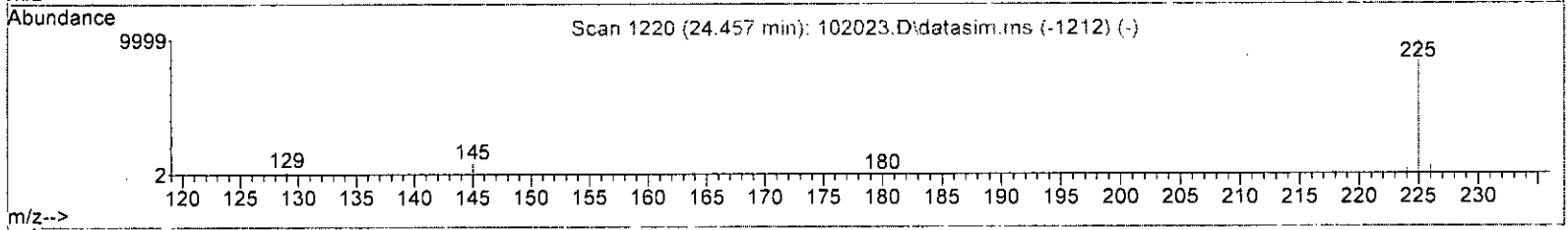
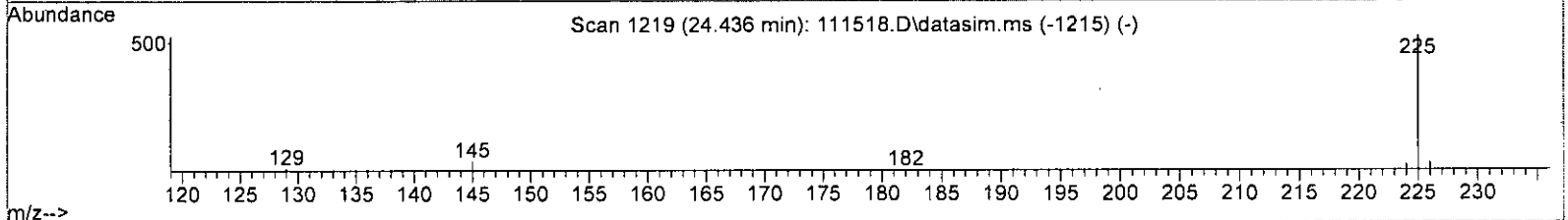
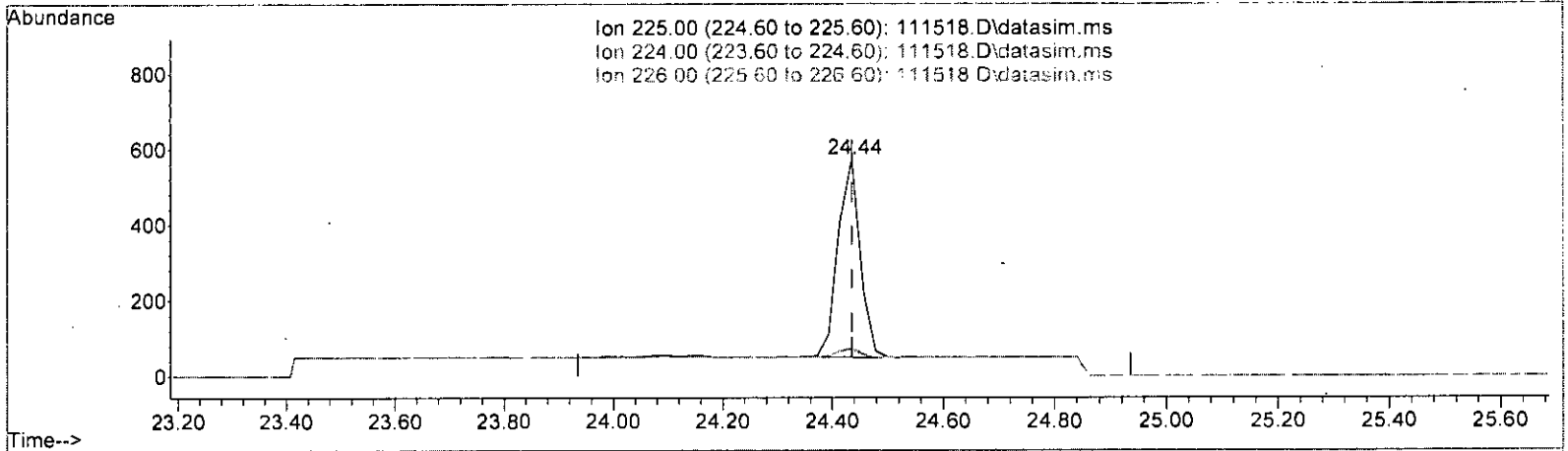
(78) Hexachlorobutadiene (TMP)		
24.436min	0.000 ppbv	d
response	0	
Ion	Exp%	Act%
225.00	100.00	0.00
224.00	3.70	0.00
226.00	5.20	0.00
0.00	0.00	0.00

*Handwritten signature: W. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(78) Hexachlorobutadiene (TMP)

24.436min (+ 0.000) 0.055 ppbv m

response 1447

Ion	Exp%	Act%
225.00	100.00	100.00
224.00	3.70	12.37
226.00	5.20	13.41
0.00	0.00	0.00

*Handwritten signature*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	63103	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	281669	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	250812	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	157021	9.034	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	90.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0	N.D.	d	
3) Dichlorodifluoromethane	3.49	85	1633	0.063	ppbv	76
4) Chloromethane	0.00		0	N.D.	d	
5) F-114	3.84	85	1659	0.062	ppbv	72
6] Vinyl chloride	4.05	62	632	0.054	ppbv	90
7] 1,3-Butadiene	4.17	54	398m	0.052	ppbv	
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	0.00		0	N.D.	d	
10) Chloroethane	0.00		0	N.D.	d	
11] Vinyl bromide	5.28	106	483m	0.048	ppbv	
12) Ethanol	0.00		0	N.D.	d	
13] Acrolein	5.38	56	304m	0.066	ppbv	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	0.00		0	N.D.	d	
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	0.00		0	N.D.	d	
18] 1,1-Dichloroethene	6.63	96	495m	0.048	ppbv	
19] trans-1,2-Dichloroethene	8.07	96	563	0.056	ppbv	90
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	0.00		0	N.D.	d	
23) CFC-113	7.12	101	1256	0.057	ppbv	88
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	0.00		0	N.D.	d	
26) Vinyl acetate	0.00		0	N.D.	d	
27] 1,1-Dichloroethane	8.36	63	1150	0.055	ppbv	98
28] cis-1,2-Dichloroethene	9.62	96	579m	0.054	ppbv	
29) Hexane	0.00		0	N.D.	d	
30] Chloroform	10.08	83	1372	0.051	ppbv	99
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	0.00		0	N.D.	d	
33) 2-Butanone (MEK)	0.00		0	N.D.	d	
34] 1,2-Dichloroethane (EDC)	11.34	62	867	0.049	ppbv	98
35] 1,1,1-Trichloroethane	11.83	97	1144m	0.054	ppbv	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37) Benzene	0.00		0	N.D.	d	
38) Cyclohexane	0.00		0	N.D.	d	
40] 1,2-Dichloropropane	13.80	63	856m	0.056	ppbv	

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

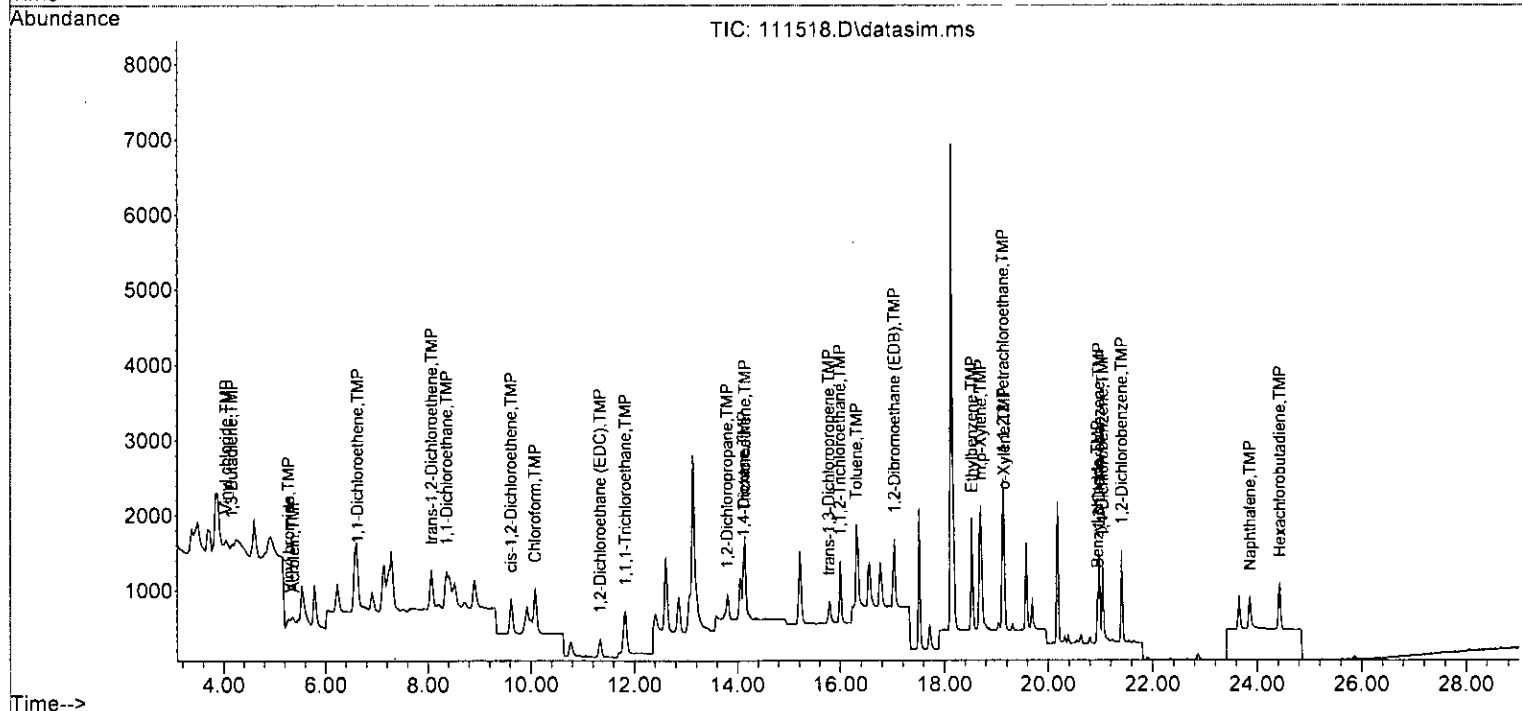
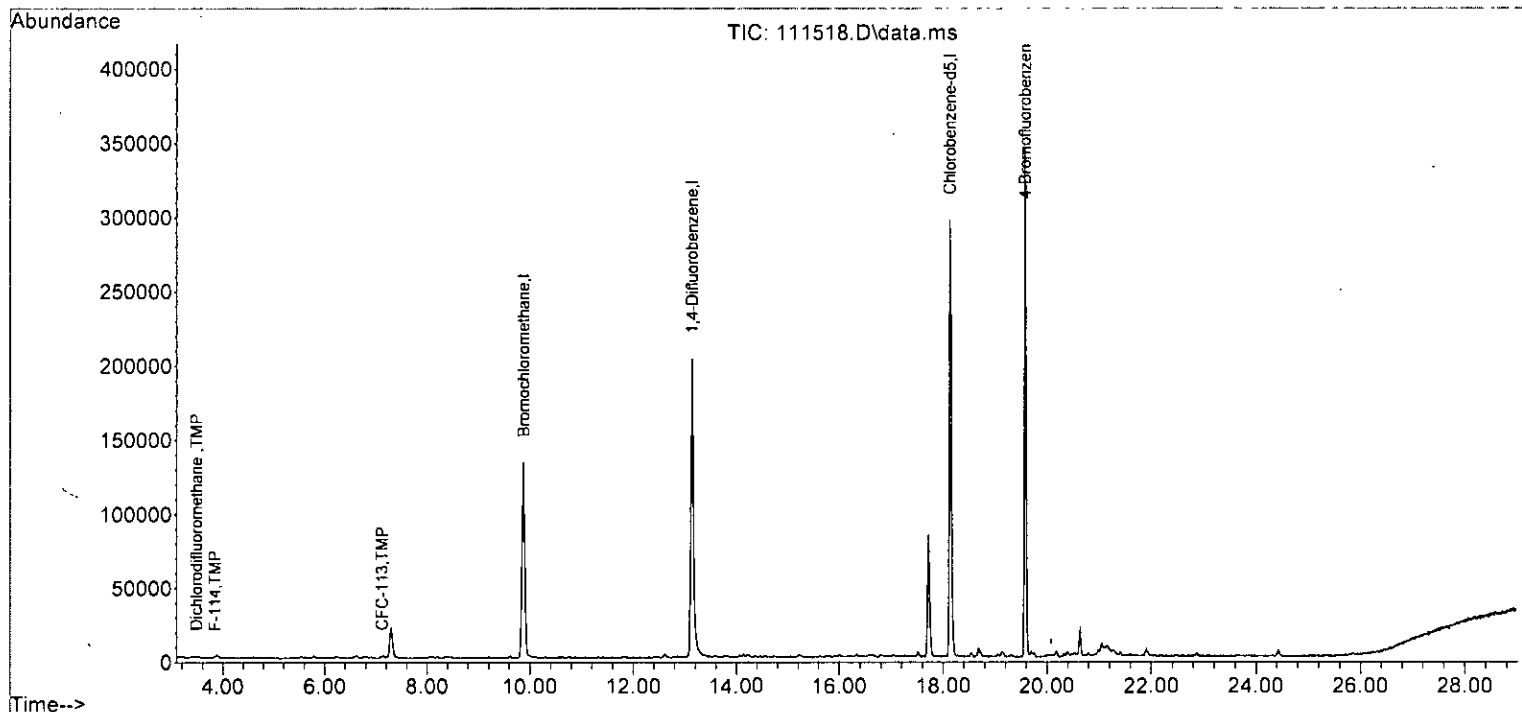
Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.12	88	382	0.059	ppbv	85
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45) Bromodichloromethane	0.00		0	N.D.	d	
46] Trichloroethene	14.14	95	945	0.057	ppbv	96
47) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
48) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
49] trans-1,3-Dichloropropene	15.78	75	928	0.059	ppbv	83
50] Toluene	16.31	92	1263m	0.063	ppbv	
51] 1,1,2-Trichloroethane	16.00	83	841m	0.052	ppbv	
52) 2-Hexanone	0.00		0	N.D.	d	
53) Tetrachloroethene	0.00		0	N.D.	d	
54) Dibromochloromethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	1266m	0.052	ppbv	
57) Chlorobenzene	0.00		0	N.D.	d	
58] Ethylbenzene	18.53	91	2518	0.049	ppbv	98
59] 1,1,2,2-Tetrachloroethane	19.13	83	1926	0.053	ppbv	92
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	0.00		0	N.D.	d	
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63) Propylbenzene	0.00		0	N.D.	d	
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65] m,p-Xylene	18.70	106	1620	0.102	ppbv	98
66] o-Xylene	19.15	106	795	0.052	ppbv	100
67) Styrene	0.00		0	N.D.	d	
68) Bromoform	0.00		0	N.D.	d	
70] Benzyl chloride	20.95	91	1039	0.037	ppbv	96
71) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
72) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
73] 1,3-Dichlorobenzene	20.98	146	1181	0.047	ppbv	97
74] 1,4-Dichlorobenzene	21.05	146	1098	0.046	ppbv	95
75] 1,2-Dichlorobenzene	21.41	146	1211	0.047	ppbv	97
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
77] Naphthalene	23.86	128	1321m	0.046	ppbv	
78] Hexachlorobutadiene	24.44	225	1447m	0.055	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	-1.000	0.000	0.0	0	-3.41#
3 TMP Dichlorodifluoromethane	0.050	0.063	-26.0	100	0.00
4 TMP Chloromethane	-1.000	0.000	0.0	0	-3.73#
5 TMP F-114	0.050	0.062	-24.0	100	-0.04
6 TMP Vinyl chloride	0.050	0.054	-8.0	100	-0.04
7 TMP 1,3-Butadiene	0.050	0.052	-4.0	96	-0.12
8 TMP Butane	-1.000	0.000	0.0	0	-4.32#
9 TMP Bromomethane	-1.000	0.000	0.0	0	-4.60#
10 TMP Chloroethane	-1.000	0.000	0.0	0	-4.84#
11 TMP Vinyl bromide	0.050	0.048	4.0	91	-0.04
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.96#
13 TMP Acrolein	0.050	0.066	-32.0#	111	-0.04
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-5.84#
16 TMP Acetone	-1.000	0.000	0.0	0	-5.57#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	0.050	0.048	4.0	79	0.00
19 TMP trans-1,2-Dichloroethene	0.050	0.056	-12.0	100	-0.03
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.80#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	-1.000	0.000	0.0	0	-6.94#
23 TMP CFC-113	0.050	0.057	-14.0	100	-0.03
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-8.43#
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.54#
27 TMP 1,1-Dichloroethane	0.050	0.055	-10.0	100	0.00
28 TMP cis-1,2-Dichloroethene	0.050	0.054	-8.0	94	-0.02
29 TMP Hexane	-1.000	0.000	0.0	0	-10.01#
30 TMP Chloroform	0.050	0.051	-2.0	100	-0.02
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.92#
32 TMP Tetrahydrofuran	-1.000	0.000	0.0	0	-10.75#
33 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-8.91#
34 TMP 1,2-Dichloroethane (EDC)	0.050	0.049	2.0	100	0.00
35 TMP 1,1,1-Trichloroethane	0.050	0.054	-8.0	97	0.00
36 TMP Carbon tetrachloride	0.050	0.000	100.0#	0	-12.86#
37 TMP Benzene	0.050	0.000	100.0#	0	-12.61#
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.07#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.050	0.056	-12.0	96	0.00
41 TMP 1,4-Dioxane	0.050	0.059	-18.0	100	0.02
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.24#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.56#
45 TMP Bromodichloromethane	0.050	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	0.050	0.057	-14.0	100	0.00
47 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.20#
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.23#
49 TMP trans-1,3-Dichloropropene	0.050	0.059	-18.0	100	0.00
50 TMP Toluene	0.050	0.063	-26.0	109	0.00
51 TMP 1,1,2-Trichloroethane	0.050	0.052	-4.0	104	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	-1.000	0.000	0.0	0	-17.52#
54 TMP Dibromochloromethane	0.050	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.050	0.052	-4.0	96	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	-1.000	0.000	0.0	0	-18.19#
58 TMP Ethylbenzene	0.050	0.049	2.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.050	0.053	-6.0	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.30#
61 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-19.70#
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	-1.000	0.000	0.0	0	-20.19#
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.32#
65 TMP m,p-Xylene	0.100	0.102	-2.0	100	0.00
66 TMP o-Xylene	0.050	0.052	-4.0	100	0.00
67 TMP Styrene	-1.000	0.000	0.0	0	-19.05#
68 TMP Bromoform	-1.000	0.000	0.0	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.034	9.7	100	0.00
70 TMP Benzyl chloride	0.050	0.037	26.0	100	0.00
71 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-20.39#
72 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-20.80#
73 TMP 1,3-Dichlorobenzene	0.050	0.047	6.0	100	0.00
74 TMP 1,4-Dichlorobenzene	0.050	0.046	8.0	101	0.00
75 TMP 1,2-Dichlorobenzene	0.050	0.047	6.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-23.64#
77 TMP Naphthalene	0.050	0.046	8.0	102	0.02
78 TMP Hexachlorobutadiene	0.050	0.055	-10.0	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	0.000	100.0#	0#	-3.41#
3 TMP Dichlorodifluoromethane	4.123	5.176	-25.5	100	0.00
4 TMP Chloromethane	1.882	0.000#	100.0#	0#	-3.73#
5 TMP F-114	4.217	5.258	-24.7	100	-0.04
6 TMP Vinyl chloride	1.851	2.003	-8.2	100	-0.04
7 TMP 1,3-Butadiene	1.216	1.261	-3.7	96	-0.12
8 TMP Butane	2.183	0.000	100.0#	0#	-4.32#
9 TMP Bromomethane	1.847	0.000#	100.0#	0#	-4.60#
10 TMP Chloroethane	0.655	0.000#	100.0#	0#	-4.84#
11 TMP Vinyl bromide	1.609	1.531	4.8	91	-0.04
12 TMP Ethanol	0.663	0.000	100.0#	0#	-4.96#
13 TMP Acrolein	0.729	0.964	-32.2#	111	-0.04
14 TMP Pentane	2.461	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.781	0.000#	100.0#	0#	-5.84#
16 TMP Acetone	0.710	0.000#	100.0#	0#	-5.57#
17 TMP 2-Propanol	3.096	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.645	1.569	4.6	79	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.784	-11.6	100	-0.03
20 TMP Methylene chloride	1.479	0.000#	100.0#	0#	-6.80#
21 TMP t-Butyl alcohol (TBA)	2.668	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.056	0.000	100.0#	0#	-6.94#
23 TMP CFC-113	3.469	3.981	-14.8	100	-0.03
24 TMP Carbon disulfide	5.167	0.000	100.0#	0#	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	3.434	0.000#	100.0#	0#	-8.43#
26 TMP Vinyl acetate	3.801	0.000#	100.0#	0#	-8.54#
27 TMP 1,1-Dichloroethane	3.342	3.645	-9.1	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.835	-8.6	94	-0.02
29 TMP Hexane	2.068	0.000	100.0#	0#	-10.01#
30 TMP Chloroform	4.060	4.348	-7.1	100	-0.02
31 TMP Ethyl acetate	3.789	0.000	100.0#	0#	-9.92#
32 TMP Tetrahydrofuran	1.809	0.000	100.0#	0#	-10.75#
33 TMP 2-Butanone (MEK)	0.619	0.000	100.0#	0#	-8.91#
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.748	-2.3	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.626	-8.5	97	0.00
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	0.000#	100.0#	0#	-12.61#
38 TMP Cyclohexane	1.367	0.000	100.0#	0#	-13.07#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.608	-12.4	96	0.00
41 TMP 1,4-Dioxane	0.230	0.271	-17.8	100	0.02
42 TMP 2,2,4-Trimethylpentane	1.598	0.000	100.0#	0#	-14.24#
43 TMP Methyl methacrylate	0.485	0.000	100.0#	0#	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.000	100.0#	0#	-14.56#
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.671	-13.2	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.000	100.0#	0#	-15.20#
48 TMP 4-Methyl-2-pentanone	0.044	0.000	100.0#	0#	-15.23#
49 TMP trans-1,3-Dichloropropene	0.563	0.659	-17.1	100	0.00
50 TMP Toluene	0.707	0.897	-26.9	109	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.597	-8.5	104	0.00
52 TMP 2-Hexanone	0.846	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.490	0.000#	100.0#	0#	-17.52#
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.899	-9.1	96	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	0.000#	100.0#	0#	-18.19#
58 TMP Ethylbenzene	1.968	2.008	-2.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.536	-10.2	100	0.00
60 TMP Nonane	0.981	0.000	100.0#	0#	-19.30#
61 TMP Isopropylbenzene	1.792	0.000	100.0#	0#	-19.70#
62 TMP 2-Chlorotoluene	0.448	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.292	0.000	100.0#	0#	-20.19#
64 TMP 4-Ethyltoluene	1.611	0.000	100.0#	0#	-20.32#
65 TMP m,p-Xylene	0.633	0.646	-2.1	100	0.00
66 TMP o-Xylene	0.615	0.634	-3.1	100	0.00
67 TMP Styrene	0.819	0.000#	100.0#	0#	-19.05#
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.626	9.7	100	0.00
70 TMP Benzyl chloride	0.987	0.829	16.0	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	0.000	100.0#	0#	-20.39#
72 TMP 1,2,4-Trimethylbenzene	1.247	0.000	100.0#	0#	-20.80#
73 TMP 1,3-Dichlorobenzene	1.012	0.942	6.9	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.876	7.5	101	0.00
75 TMP 1,2-Dichlorobenzene	1.024	0.966	5.7	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.000	100.0#	0#	-23.64#
77 TMP Naphthalene	1.132	1.053	7.0	102	0.02
78 TMP Hexachlorobutadiene	1.045	1.154	-10.4	100	0.00

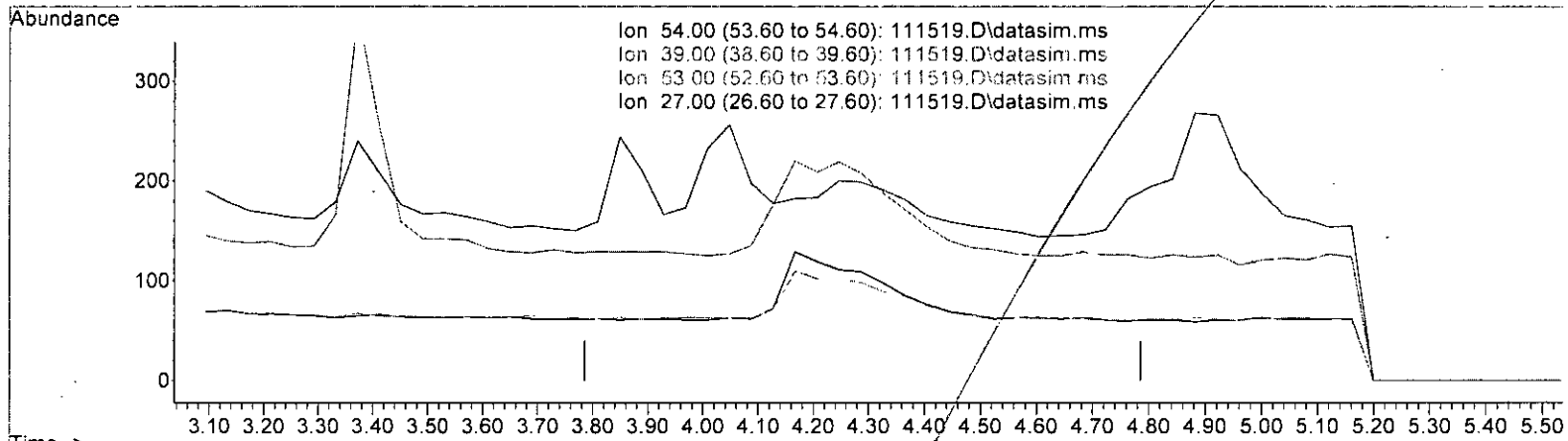
(#) = Out of Range

SPCC's out = 17 CCC's out = 0

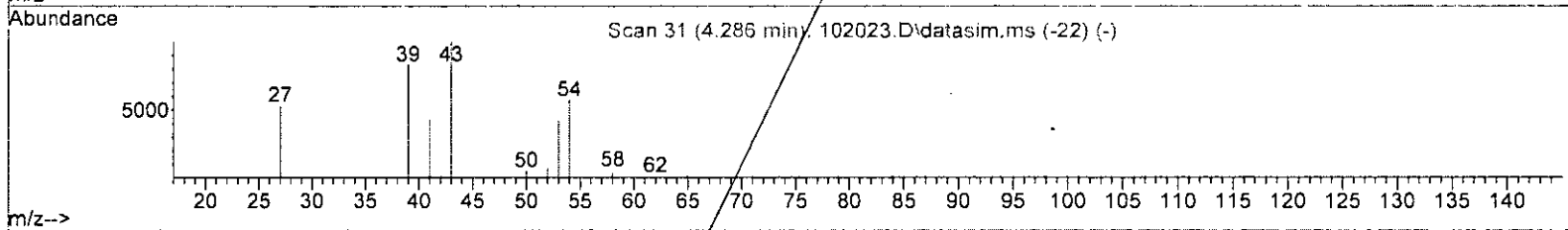
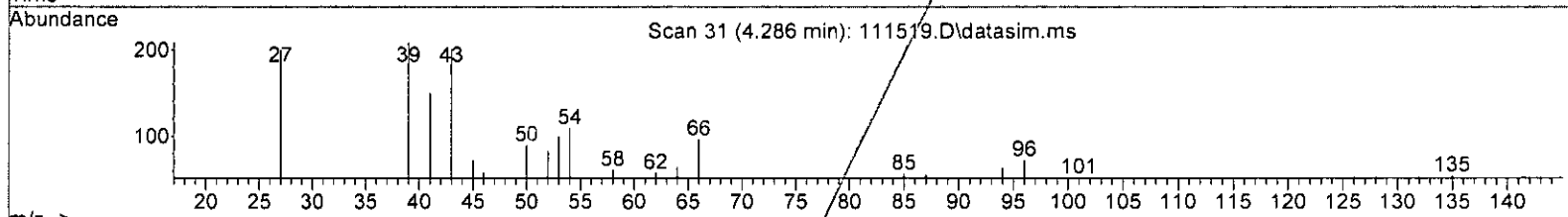
Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Ion 54.00 (53.60 to 54.60): 111519.D\data.ms  
 Ion 39.00 (38.60 to 39.60): 111519.D\data.ms  
 Ion 53.00 (52.60 to 53.60): 111519.D\data.ms  
 Ion 27.00 (26.60 to 27.60): 111519.D\data.ms



TIC: 111519.D\data.ms

(7) 1,3-Butadiene (TMP)  
 4.286min (-4.286) 0.000 ppbv  
 response 0

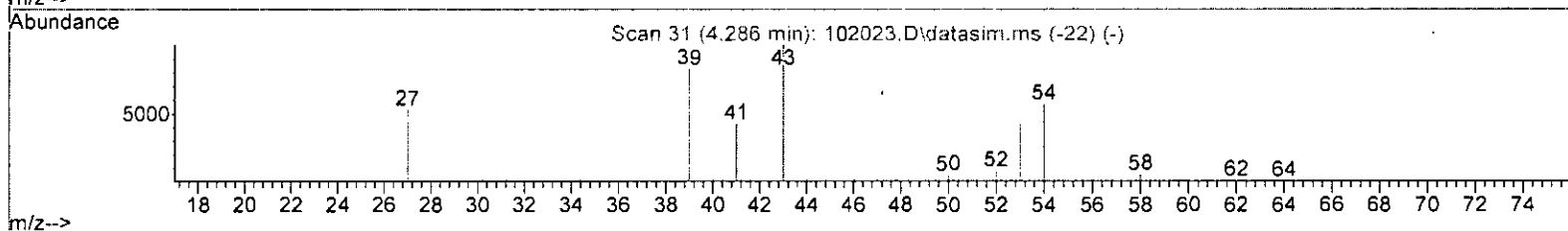
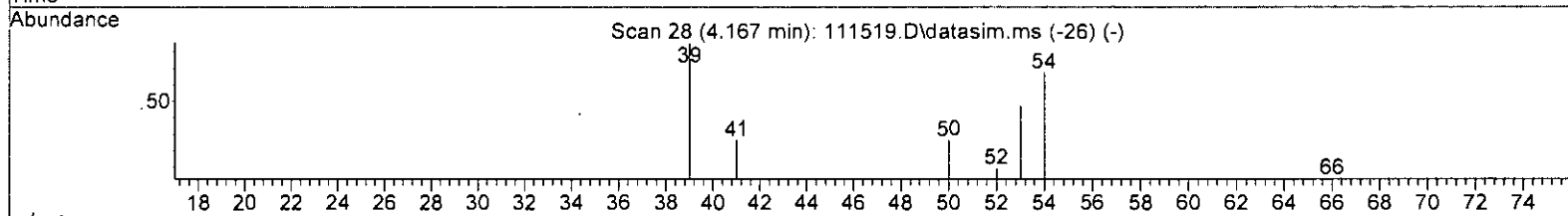
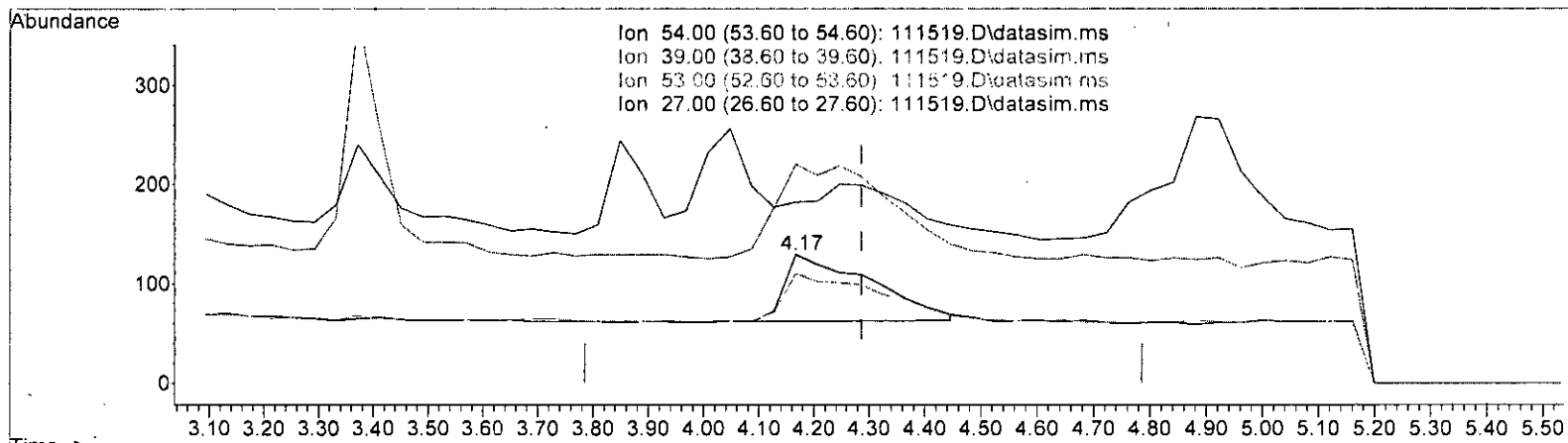
Ion	Exp%	Act%
54.00	100.00	0.00
39.00	127.60	0.00#
53.00	72.40	0.00#
27.00	0.00	0.00

*Handwritten signature and date: W/ 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(7) 1,3-Butadiene (TMP)

4.167min (-0.119) 0.096 ppbv m

response 728

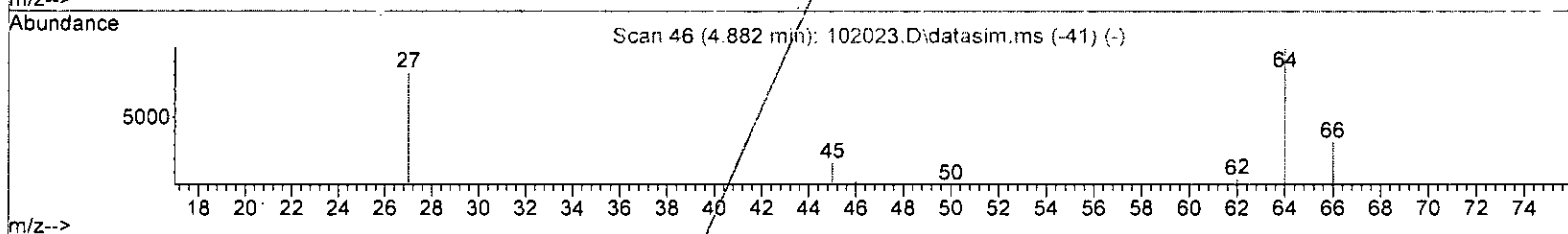
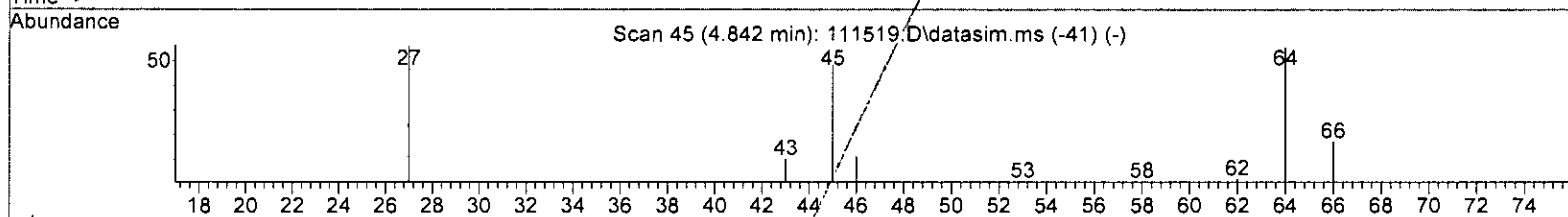
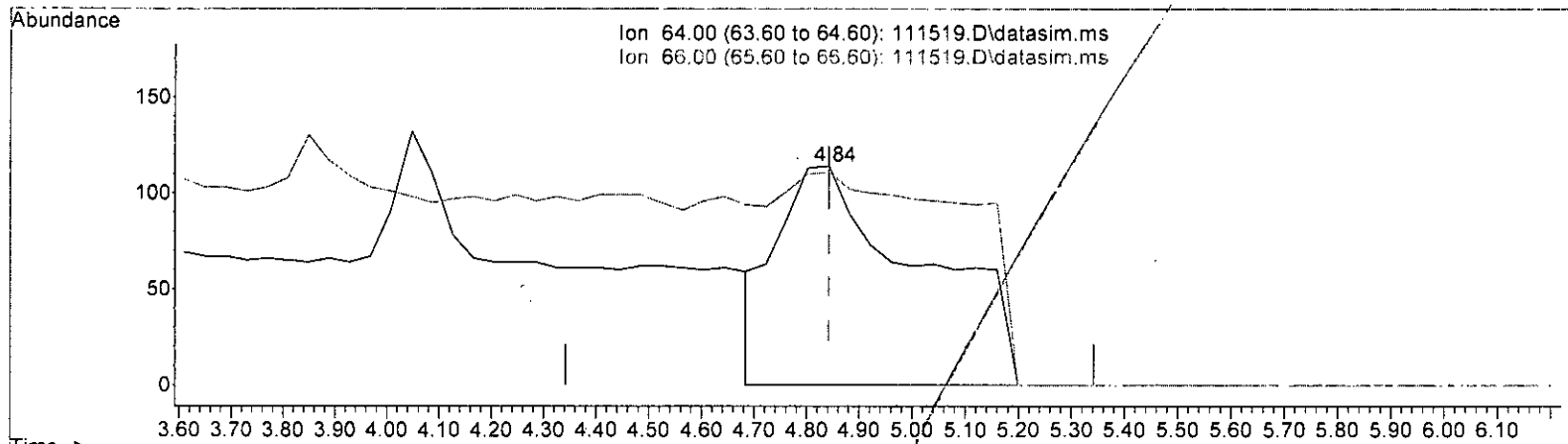
Ion	Exp%	Act%
54.00	100.00	100.00
39.00	127.60	170.54#
53.00	72.40	85.27
27.00	0.00	141.09#

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(10) Chloroethane (TMP)

4.842min (+ 0.000) 0.512 ppbv

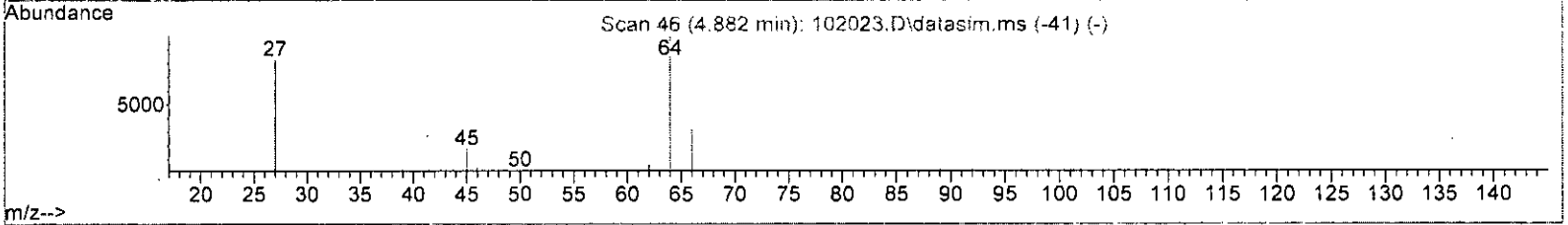
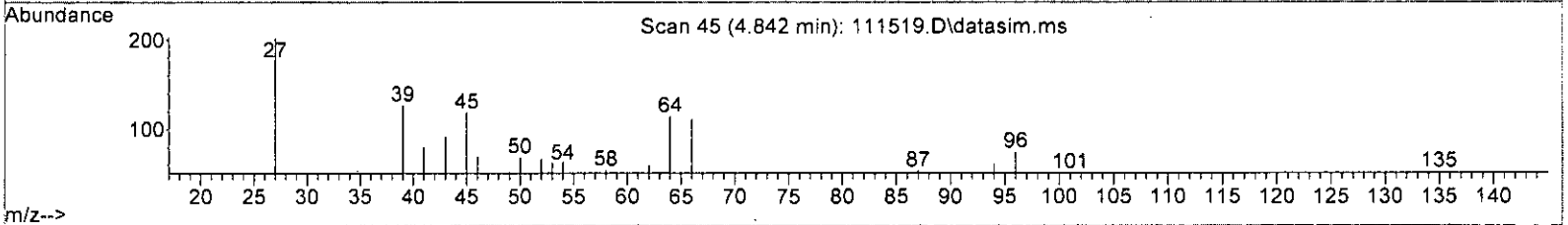
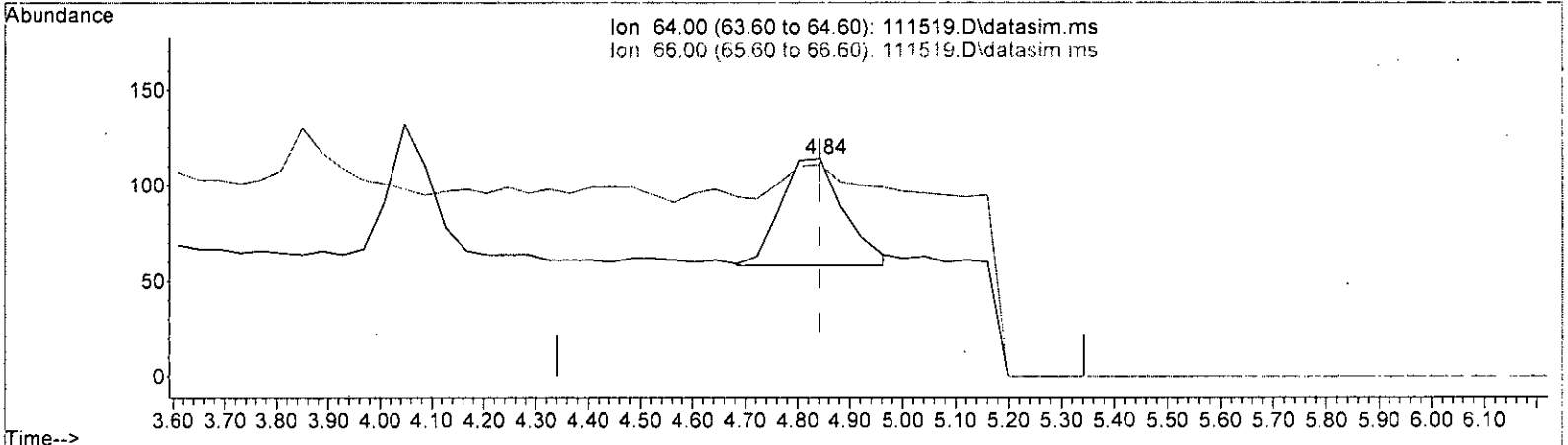
response	2089
Ion	Exp% Act%
64.00	100.00 100.00
66.00	31.80 97.37#
0.00	0.00 0.00
0.00	0.00 0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

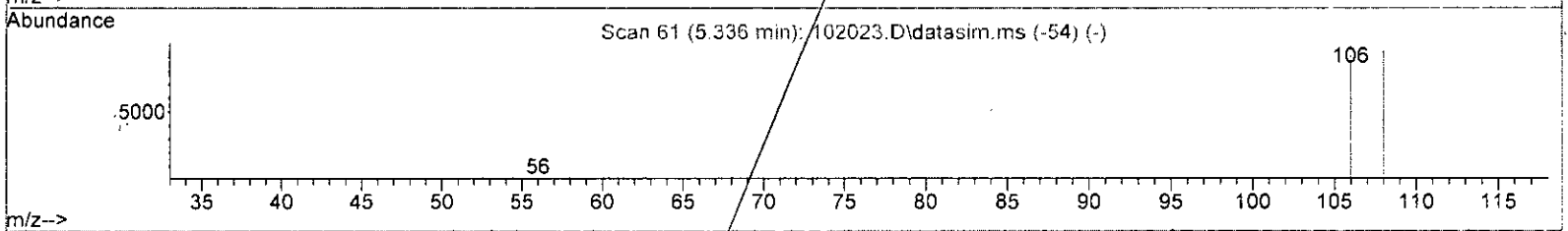
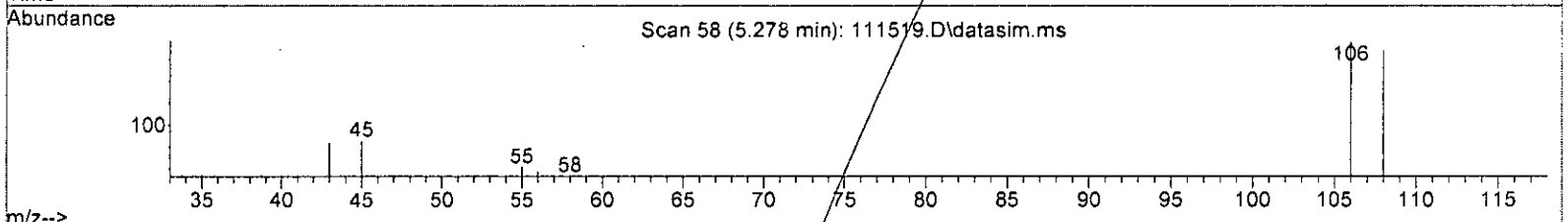
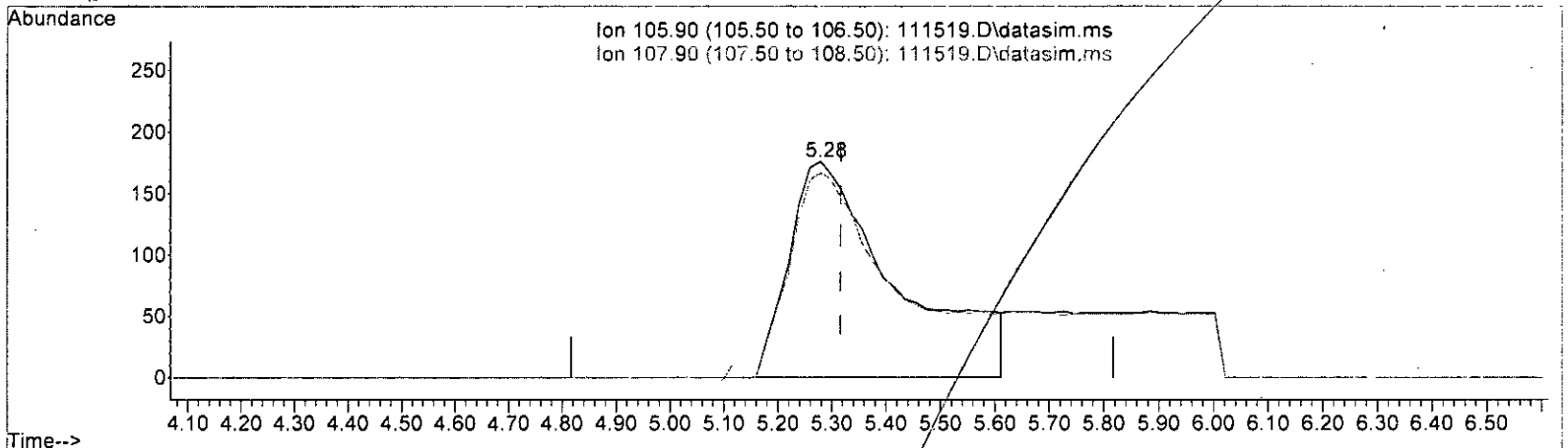
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	0.115 ppbv m	
response	470	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	97.37#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(11) Vinyl bromide (TMP)  
 5.278min (-0.039) 0.259 ppbv

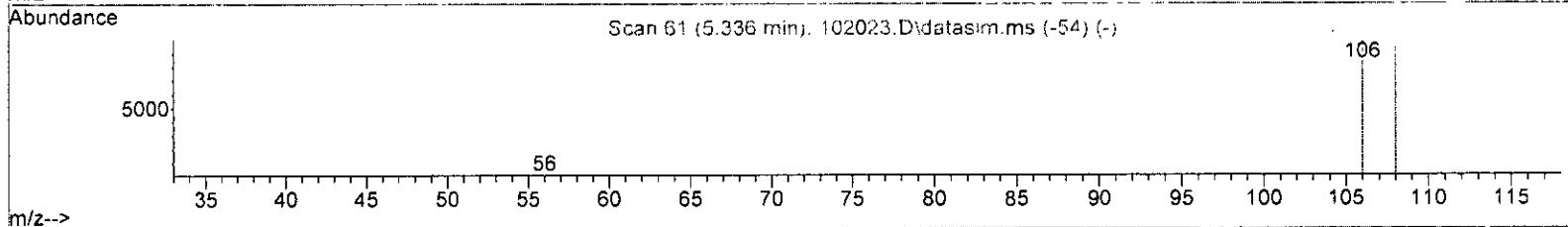
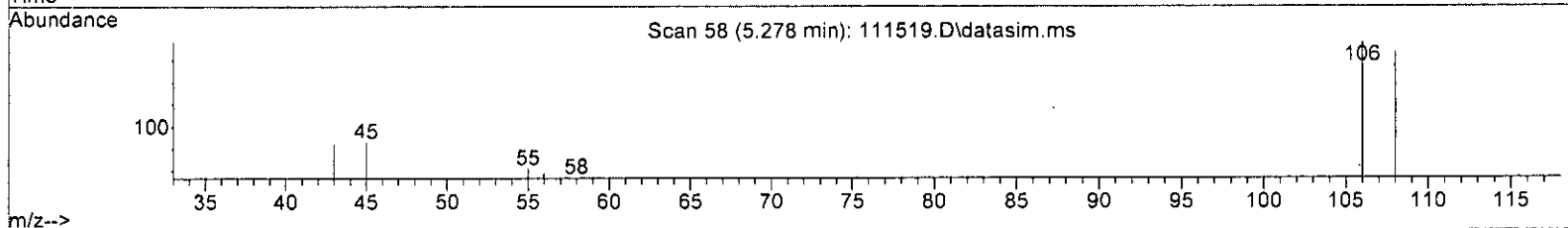
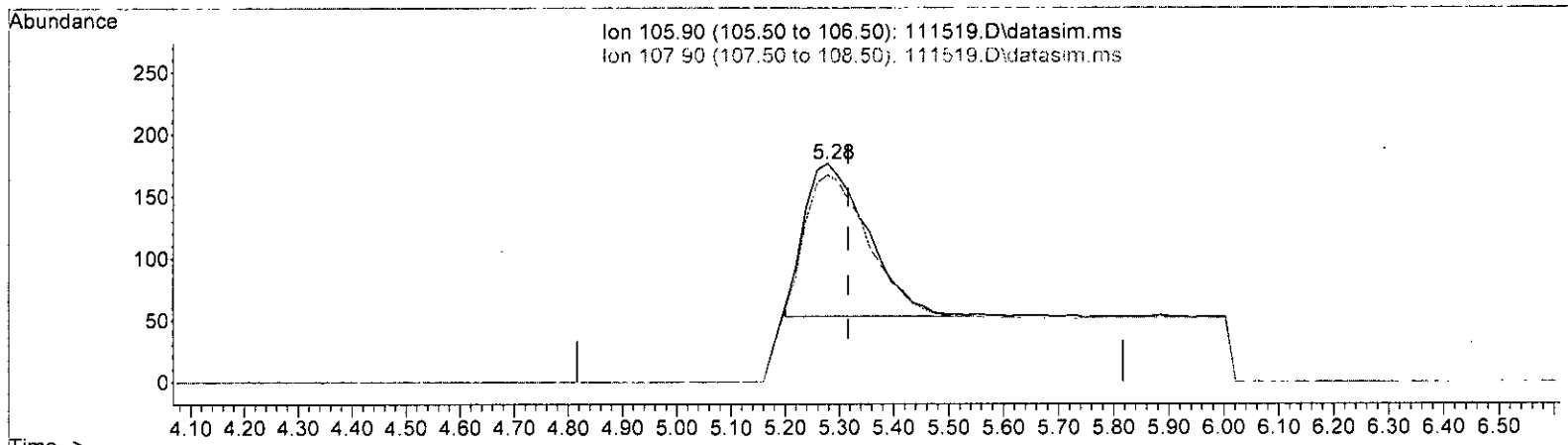
response	2596	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	107.16
0.00	0.00	0.00
0.00	0.00	0.00

*h / (11/18/22)*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(11) Vinyl bromide (TMP)  
 5.278min (-0.039) 0.100 ppbv m

response	999	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	278.48#
0.00	0.00	0.00
0.00	0.00	0.00

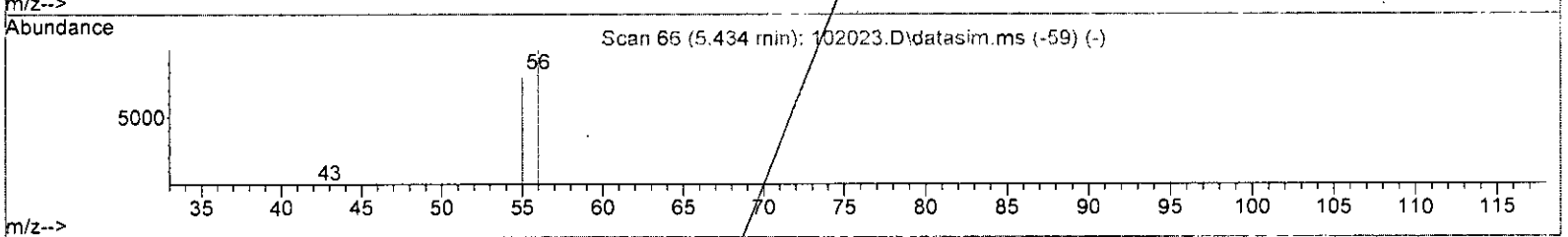
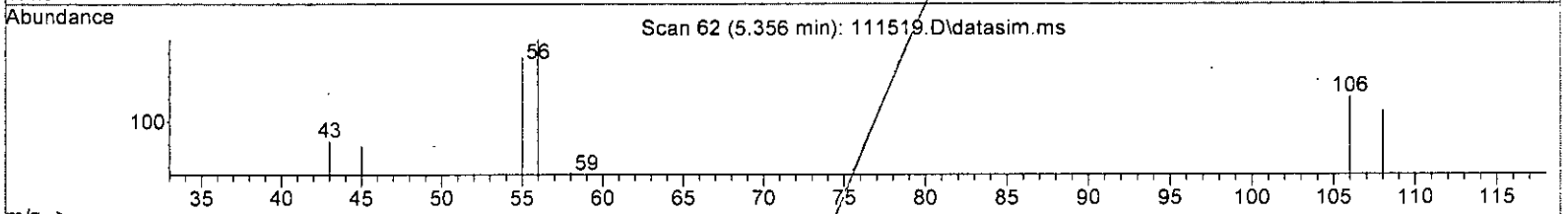
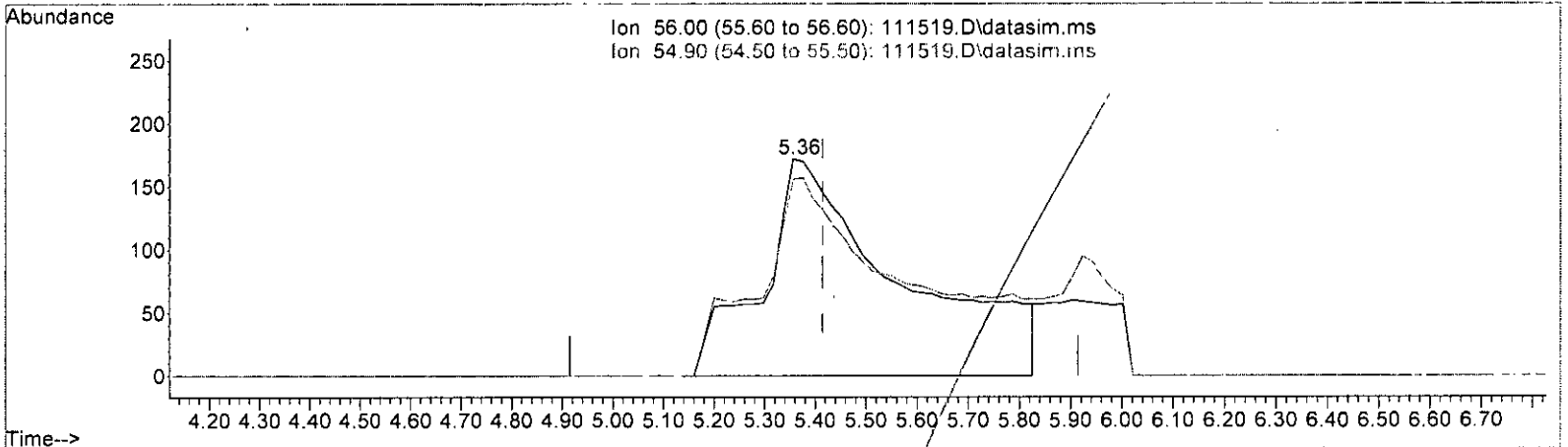
*W/ 11/18/22*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

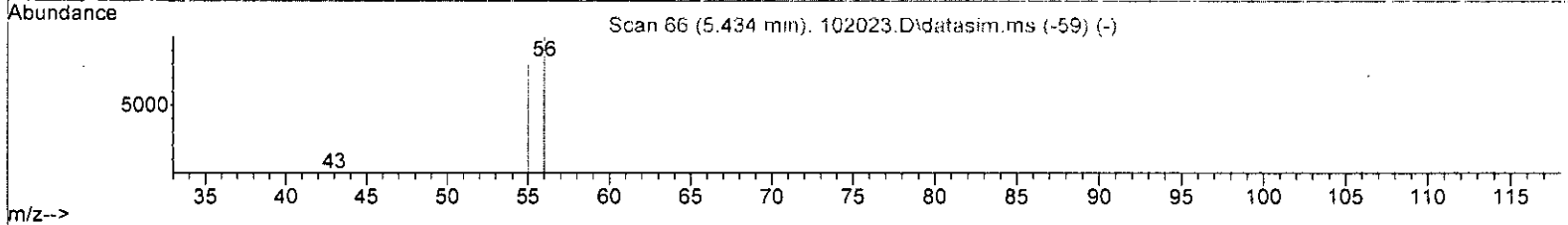
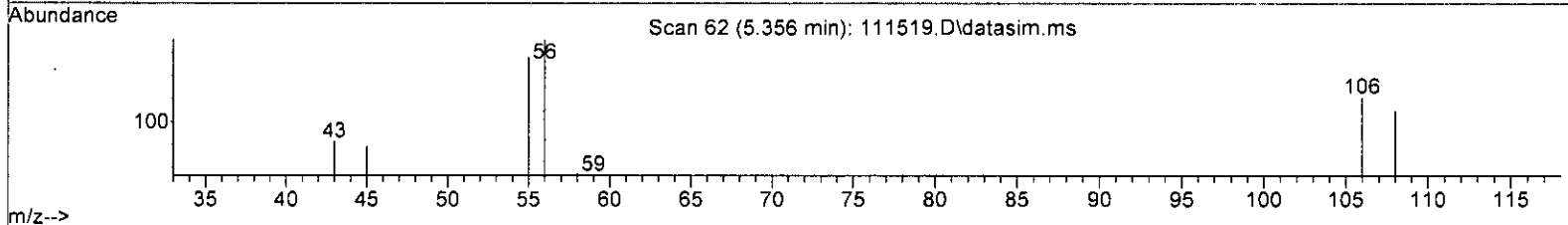
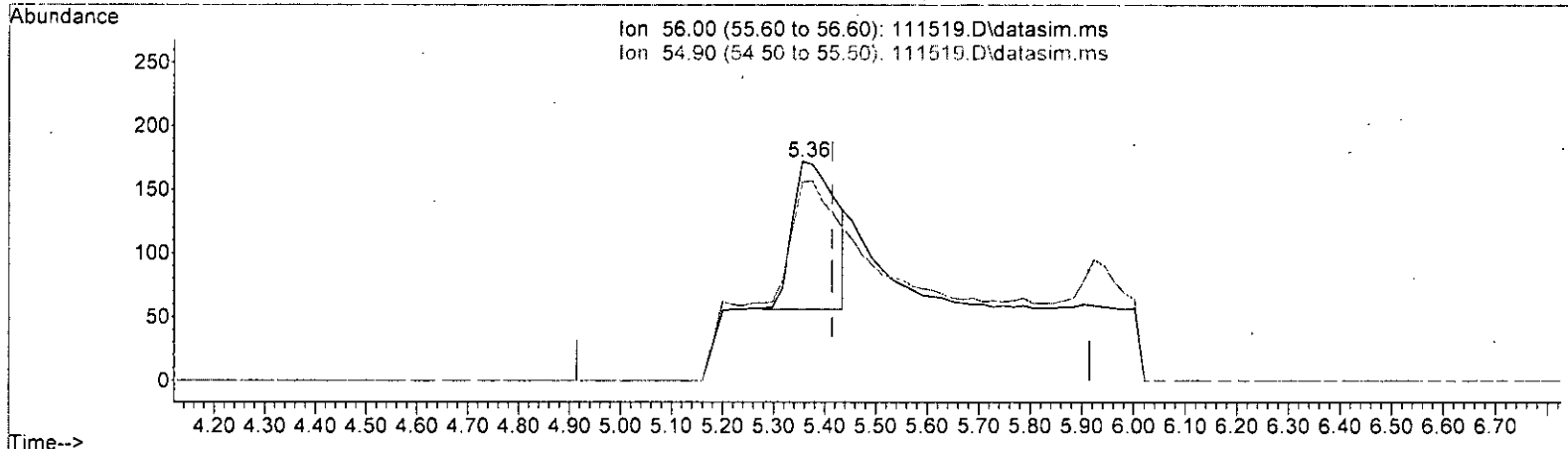
(13) Acrolein (TMP)		
5.356min (-0.059)	0.754 ppbv	
response	3423	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	44.55#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: 4/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

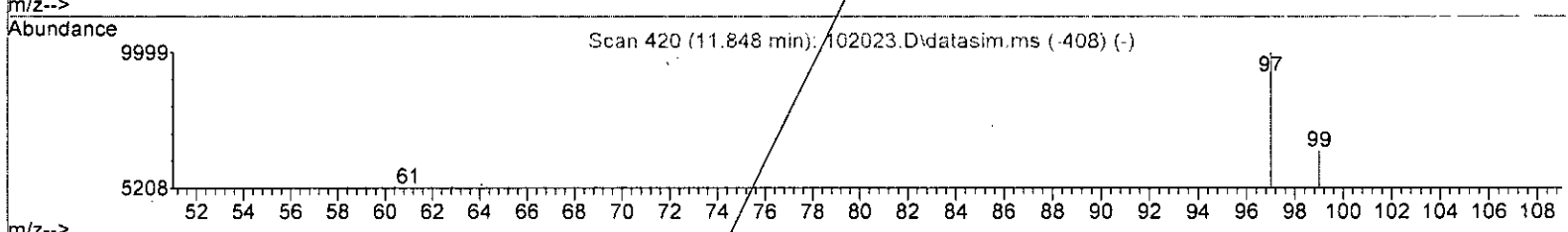
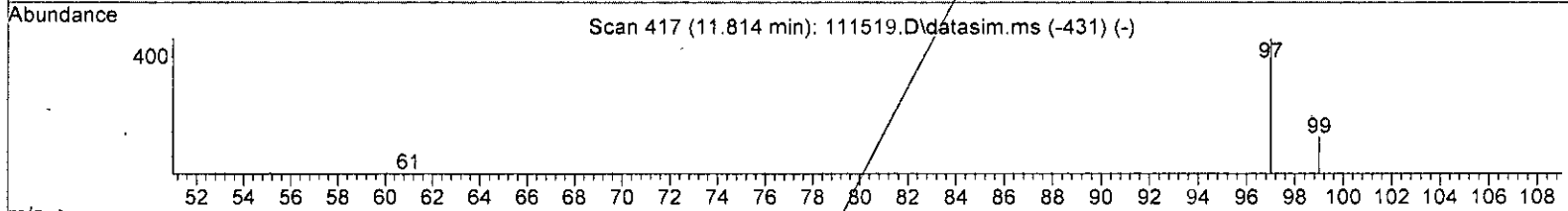
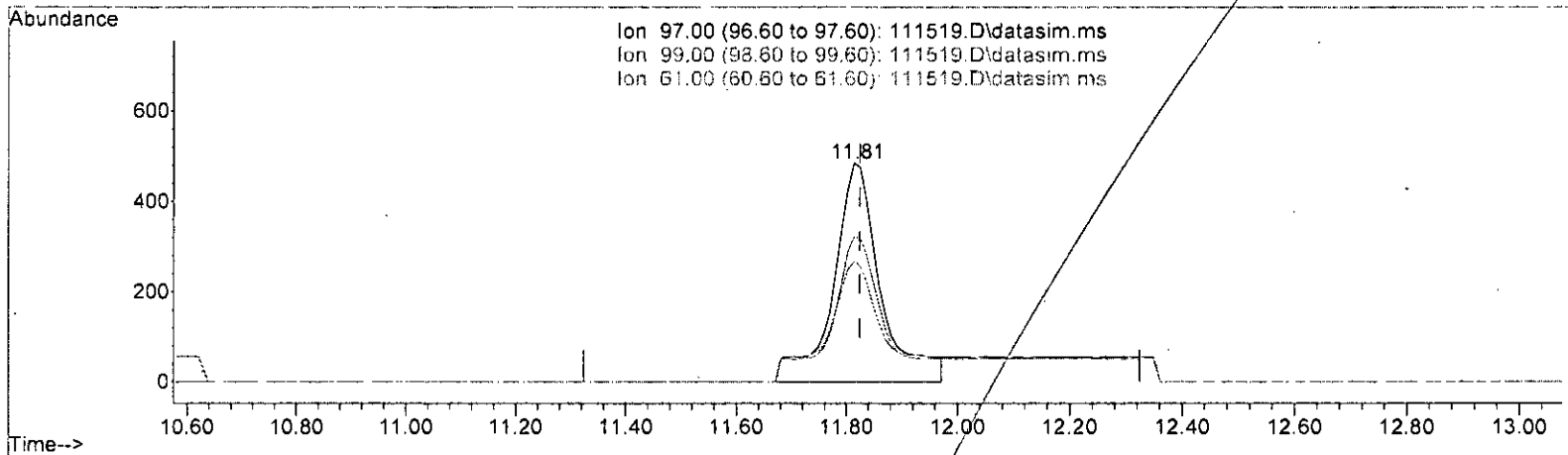
(13) Acrolein (TMP)		
5.356min (-0.059) 0.152 ppbv m		
response	691	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	220.69#
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.814min (-0.011) 0.137 ppbv

response 2857

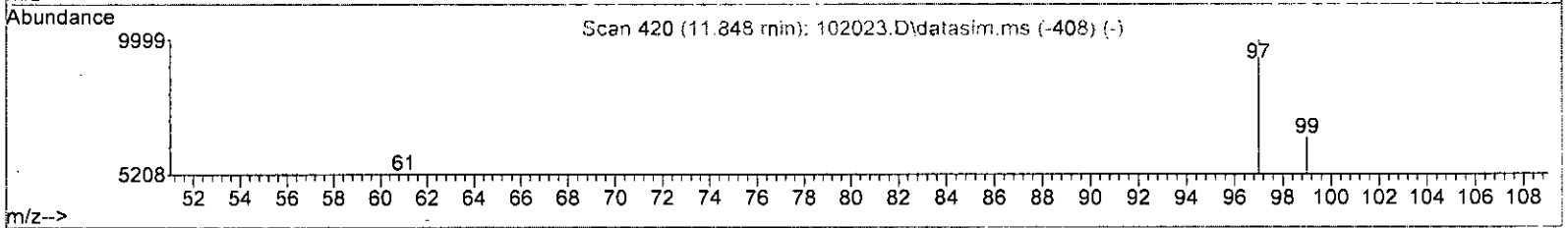
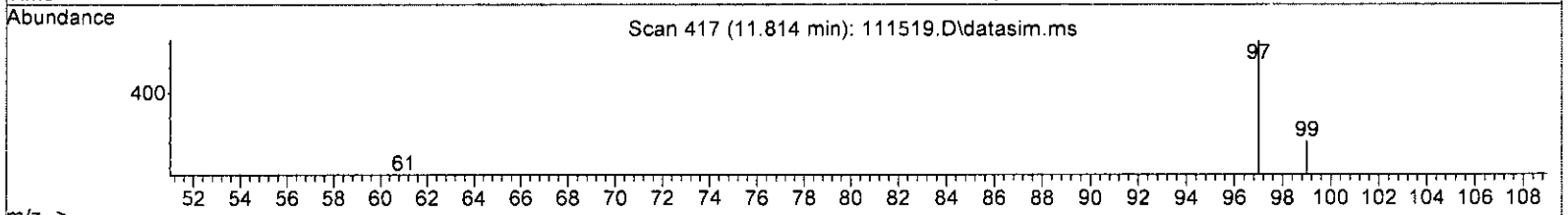
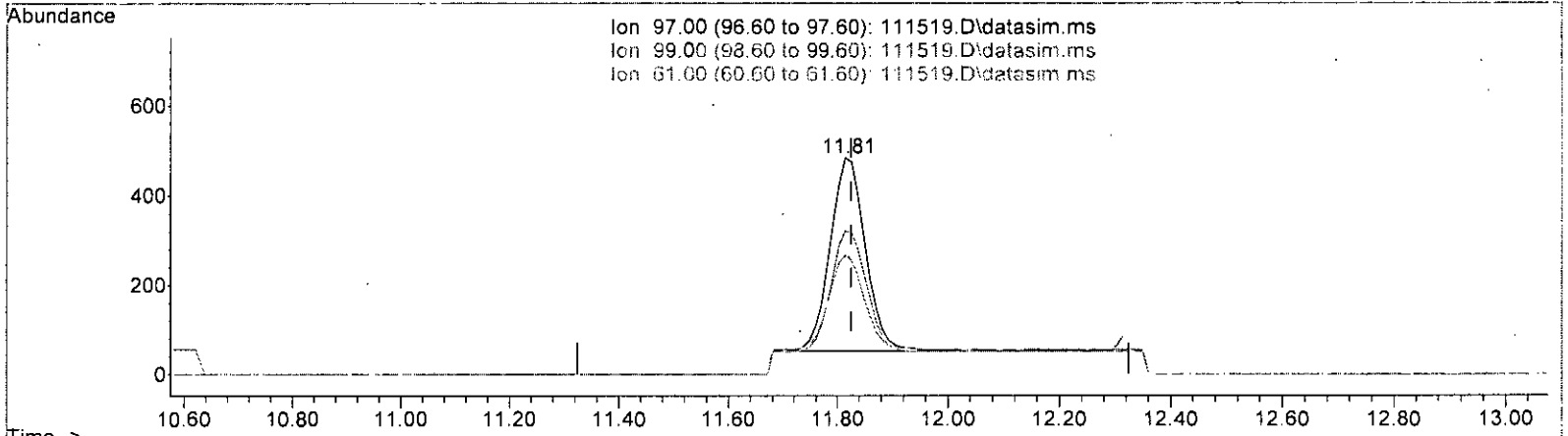
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	66.32
61.00	49.30	55.37
0.00	0.00	0.00

*bat*  
*11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111519.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)  
 11.814min (-0.011) 0.093 ppbv m

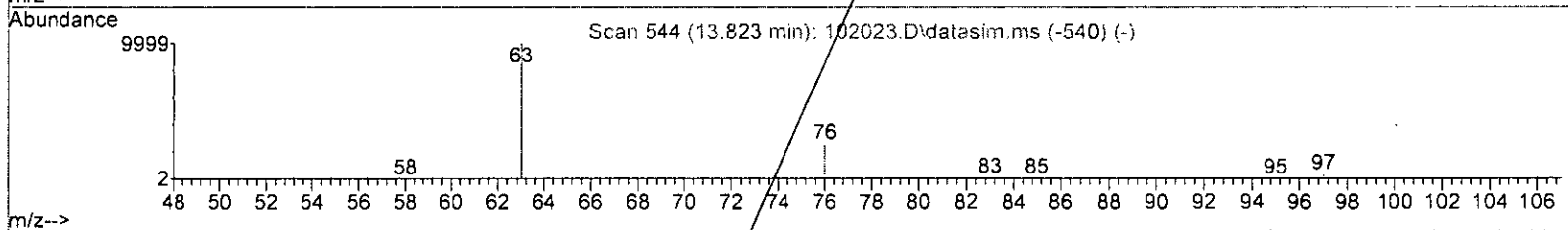
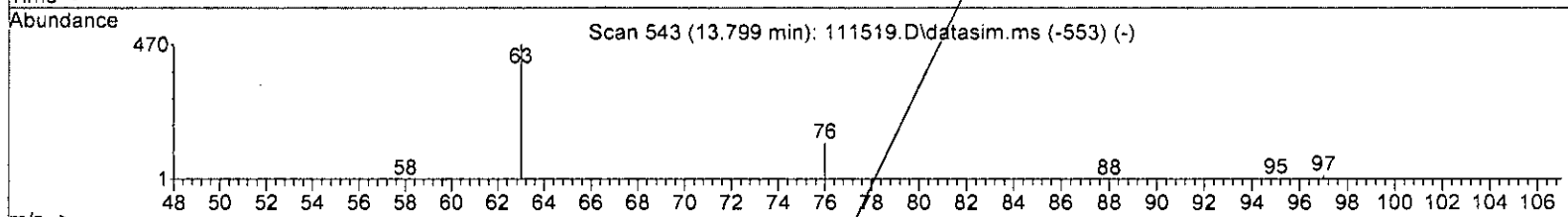
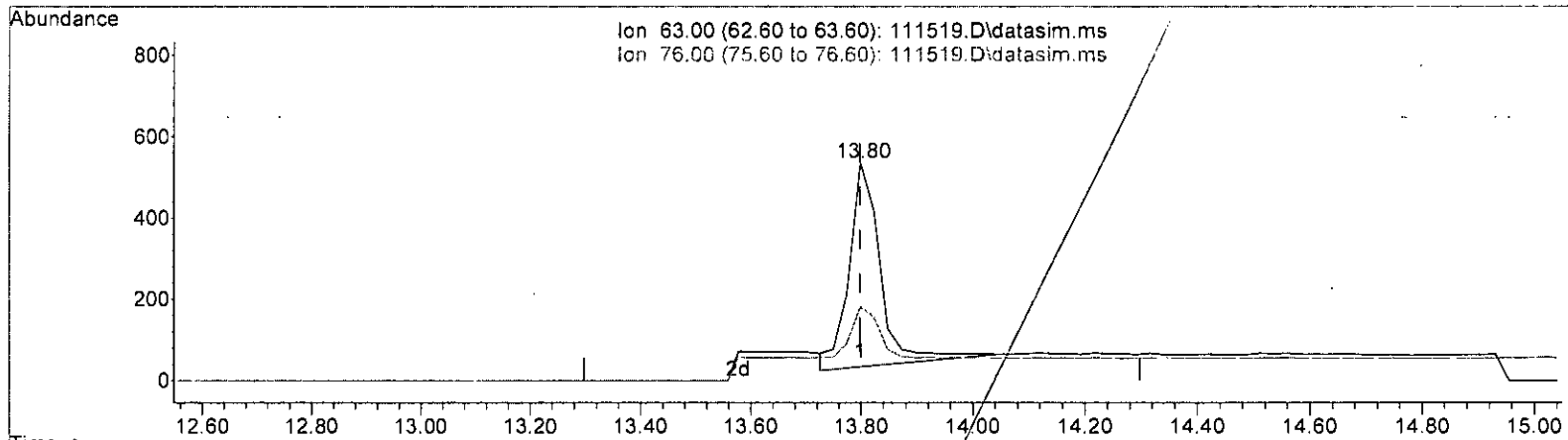
response	1935	
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	66.32
61.00	49.30	55.37
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



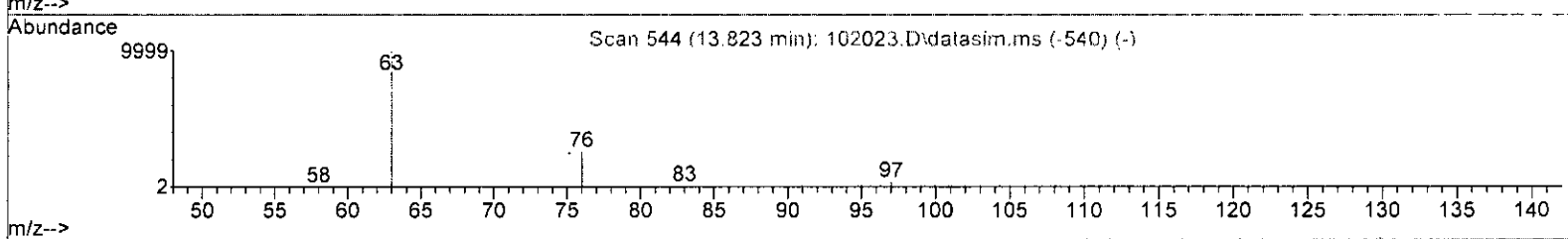
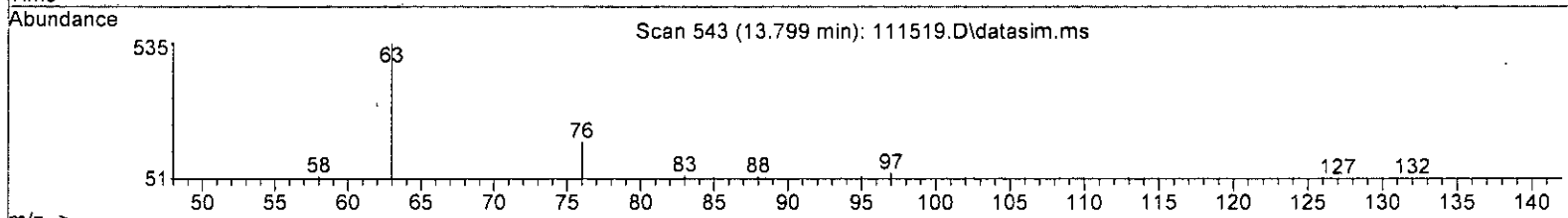
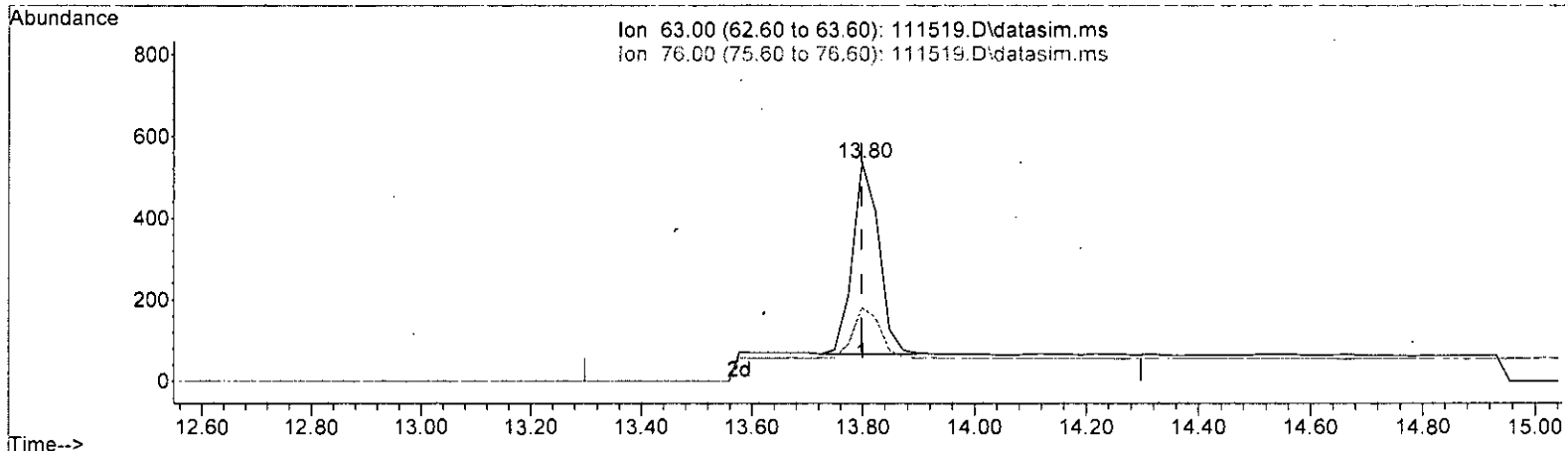
TIC: 111519.D\data.ms

(40)	1,2-Dichloropropane (TMP)	
13.799min (+ 0.001)	0.126 ppbv	
response	1955	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	26.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.799min (+ 0.001) 0.099 ppbv m

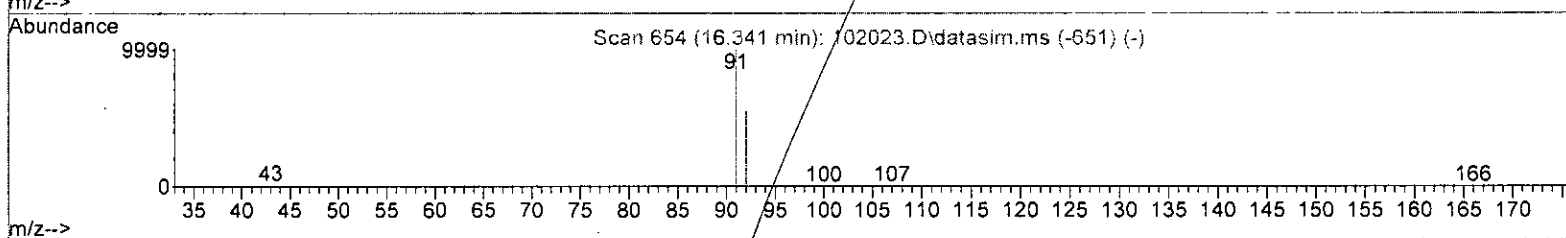
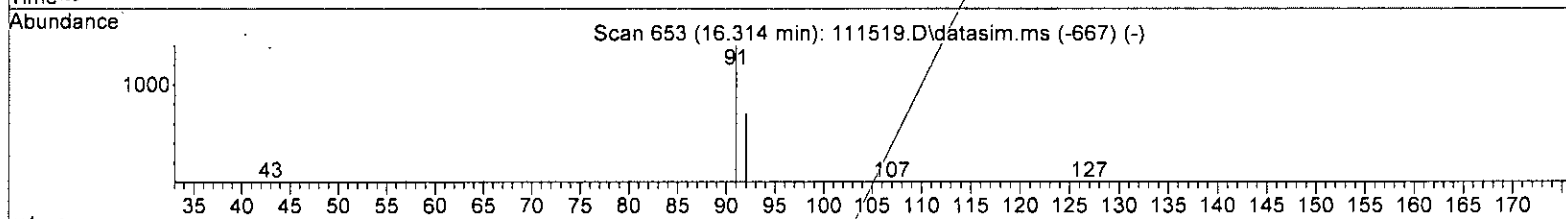
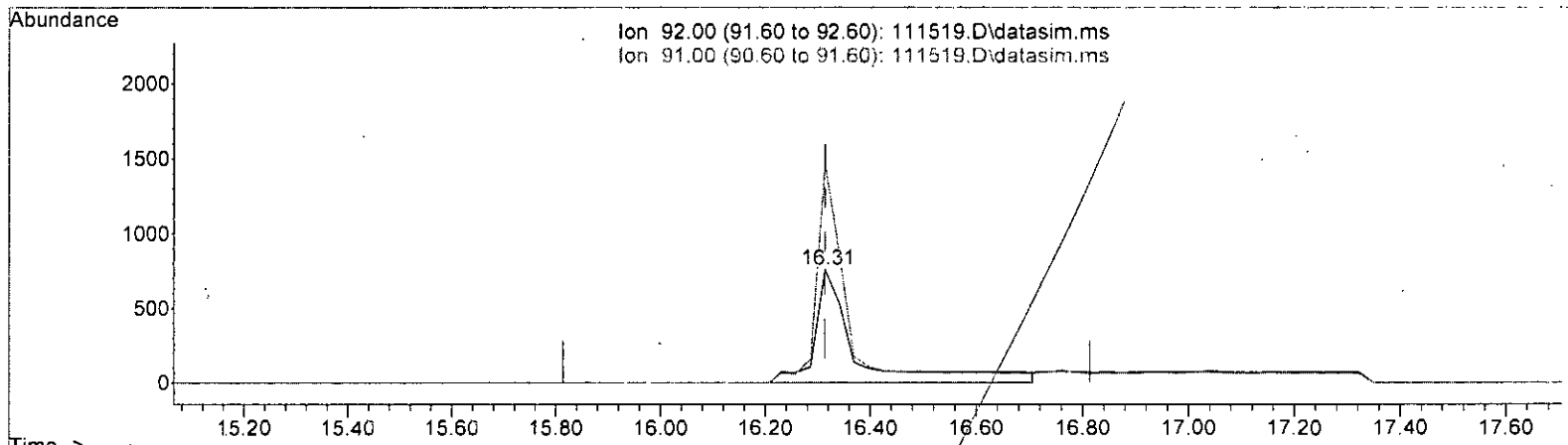
response	1540
Ion	Exp% Act%
63.00	100.00 100.00
76.00	25.70 33.77
0.00	0.00 0.00
0.00	0.00 0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

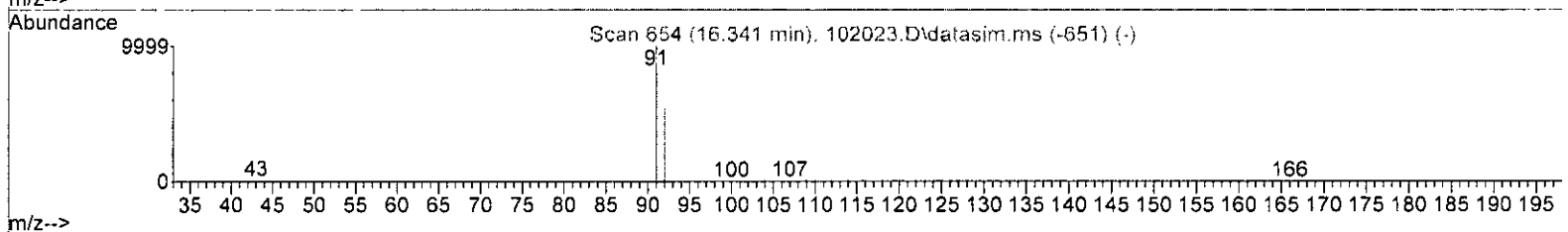
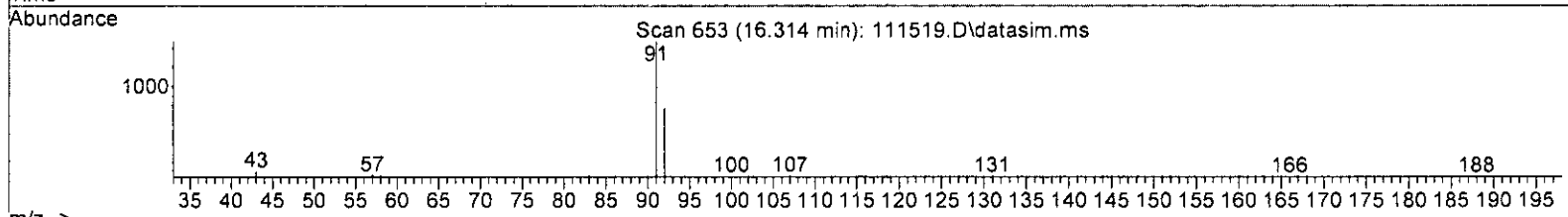
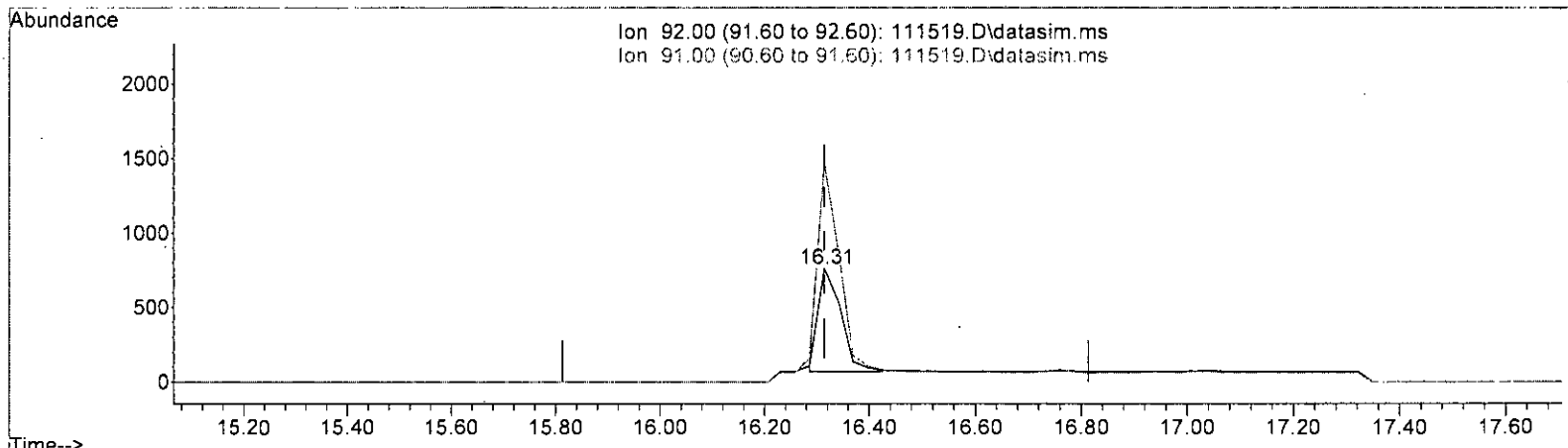
(50) Toluene (TMP)			
16.314min	(-0.000)	0.206	ppbv
response	4170		
Ion	Exp%	Act%	
92.00	100.00	100.00	
91.00	204.60	193.14	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: W. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(50) Toluene (TMP)			
16.314min (-0.000) 0.103 ppbv m			
response	2091		
Ion	Exp%	Act%	
92.00	100.00	100.00	
91.00	204.60	193.14	
0.00	0.00	0.00	
0.00	0.00	0.00	

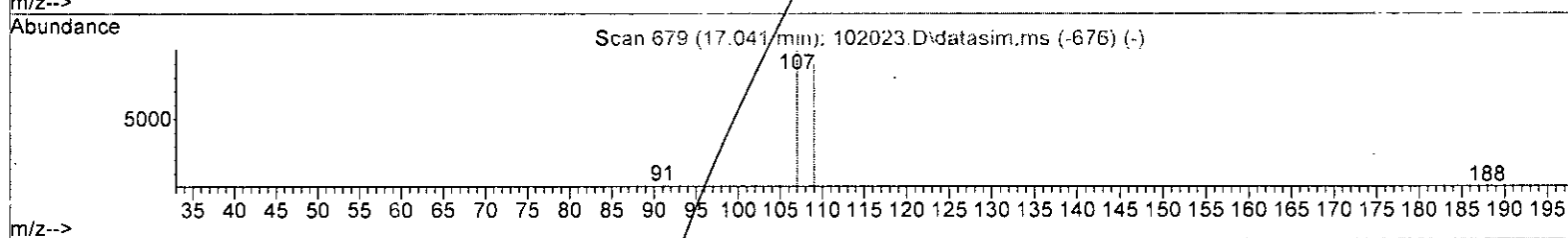
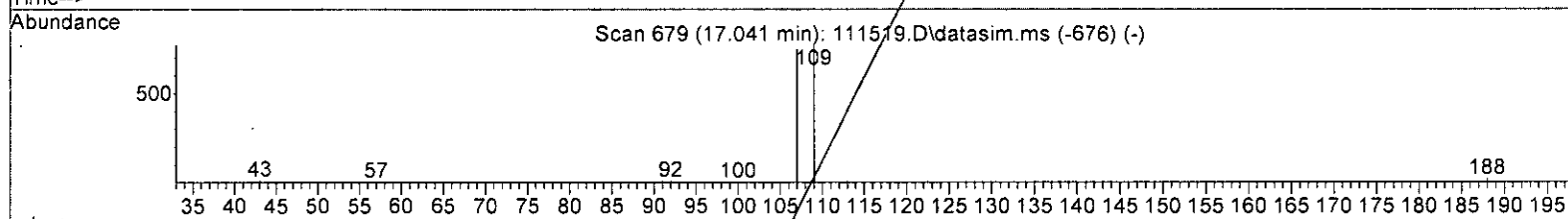
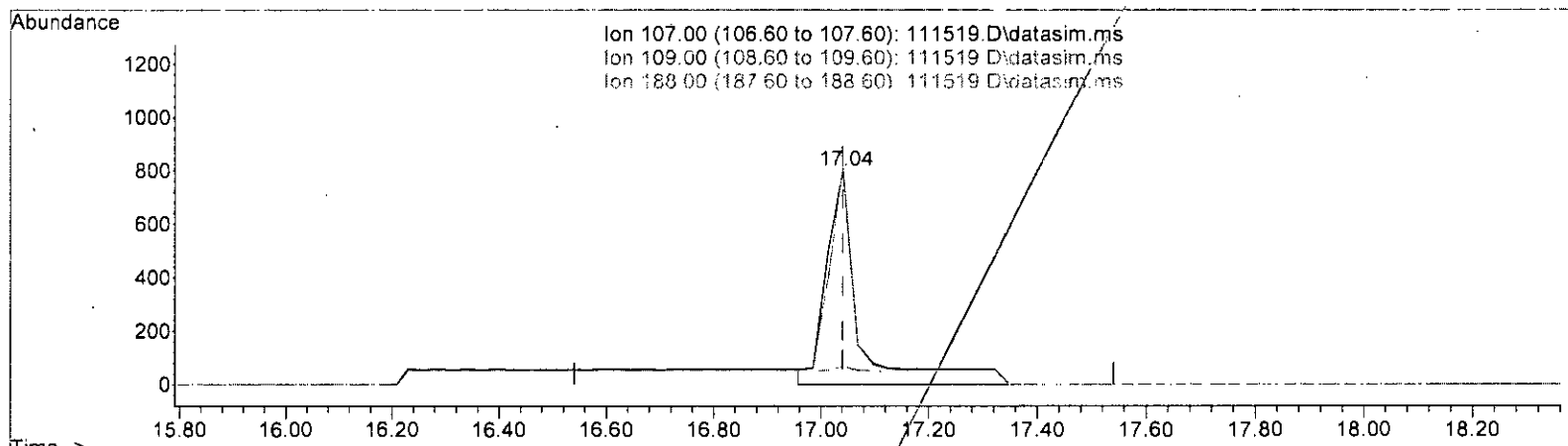
5  
11/18/22



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

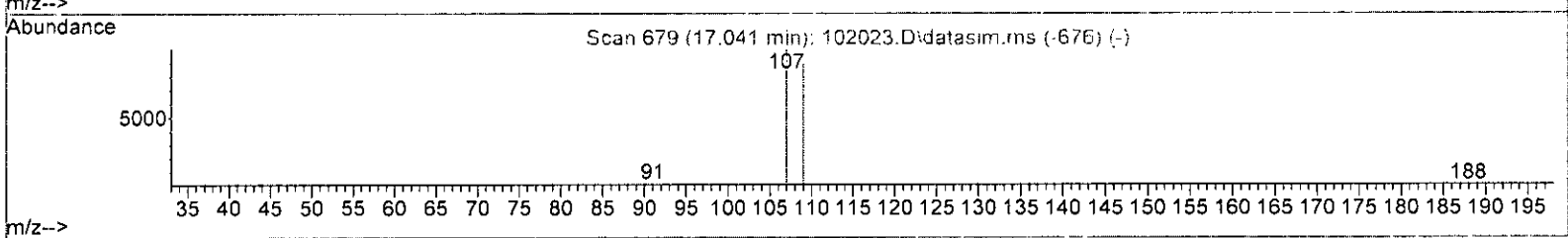
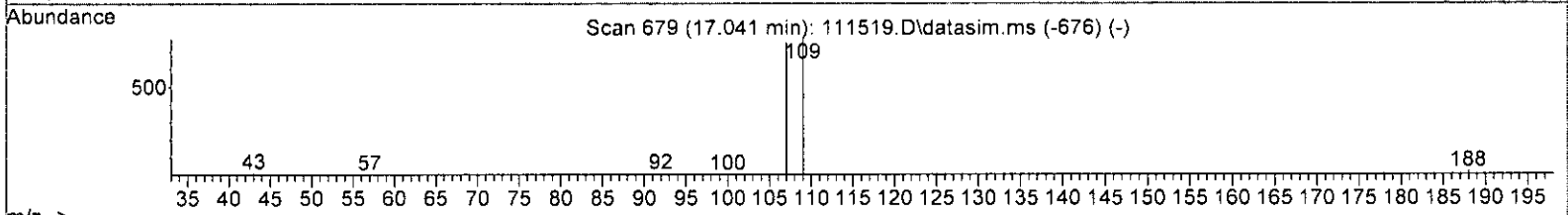
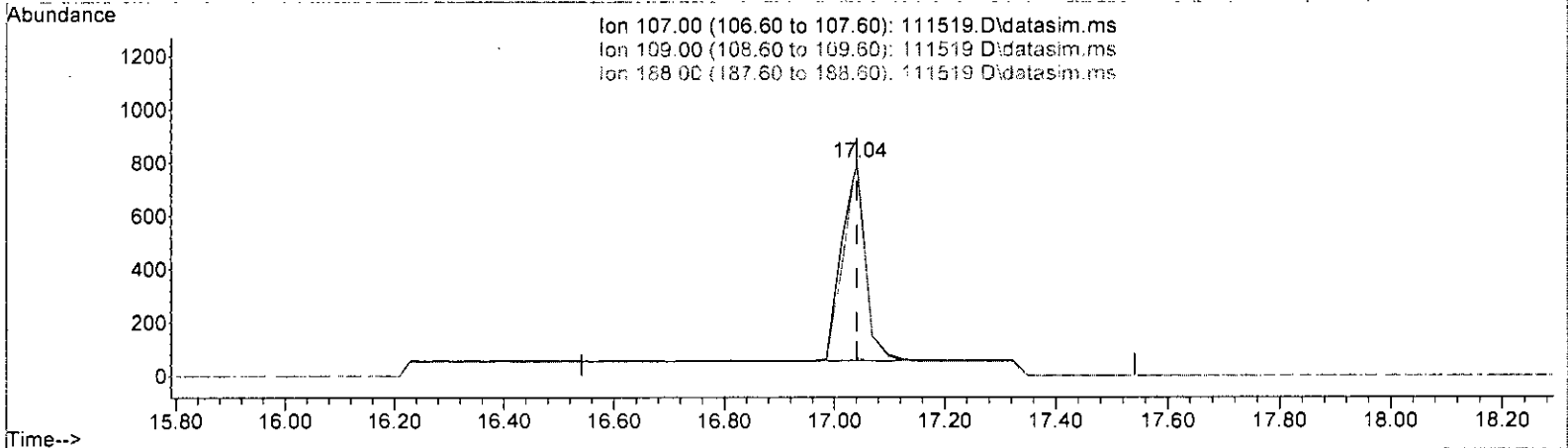
(55) 1,2-Dibromoethane (EDB) (TMP)			
17.041min (+ 0.000)		0.144 ppbv	
response	3318		
Ion	Exp%	Act%	
107.00	100.00	100.00	
109.00	104.60	102.25	
188.00	2.70	8.36	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.041min (+ 0.000) 0.093 ppbv m

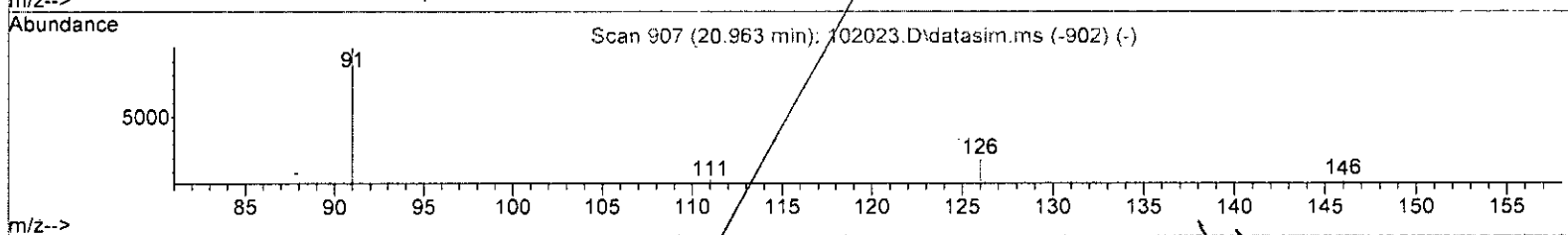
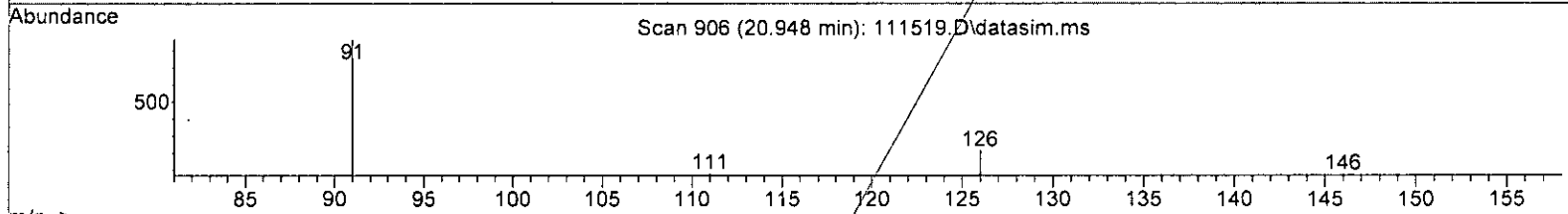
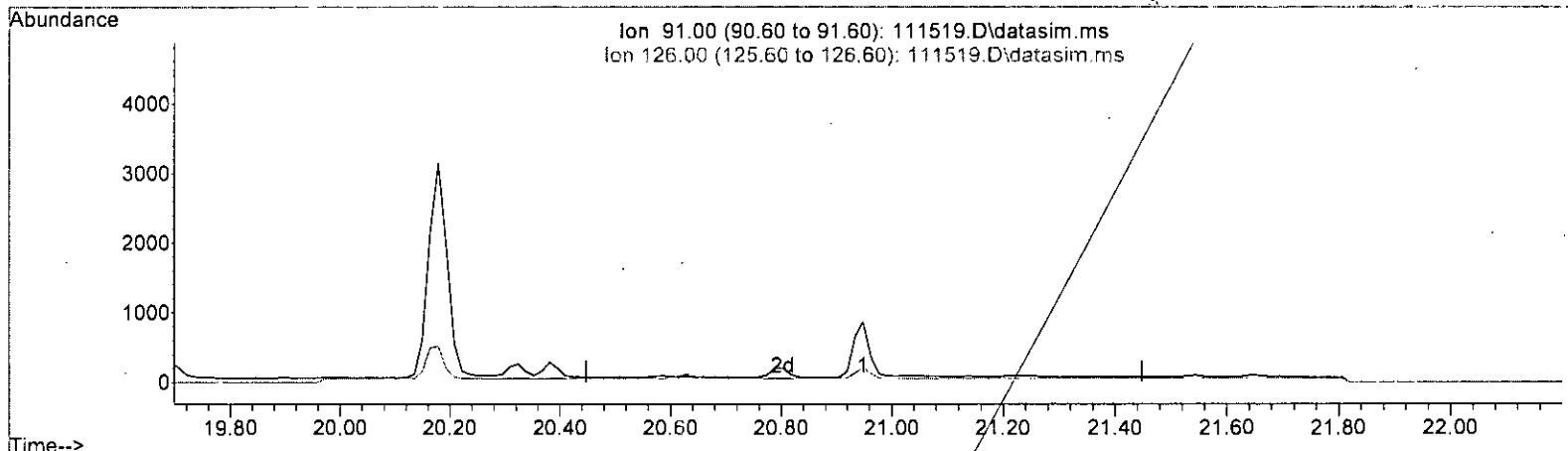
response	2202	
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	102.25
188.00	2.70	8.36
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

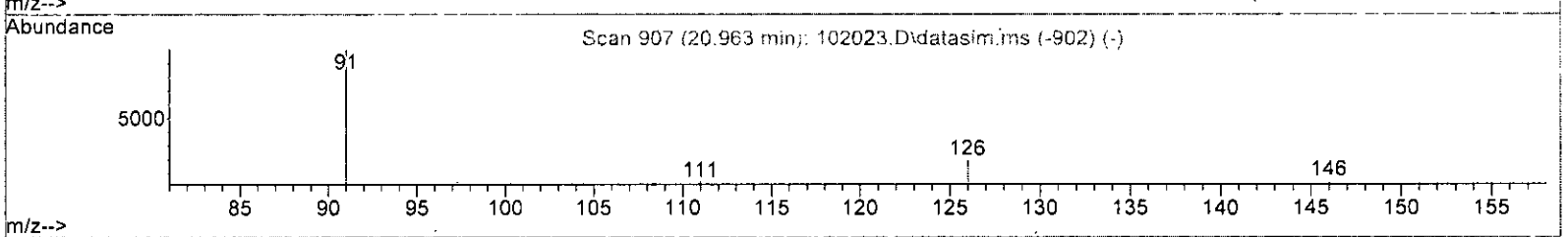
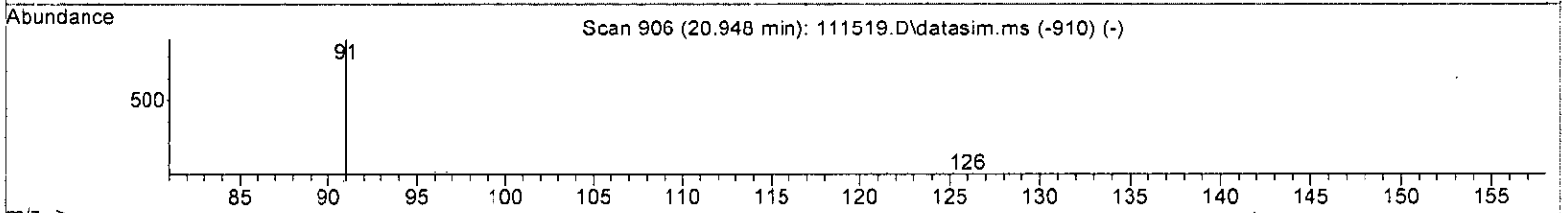
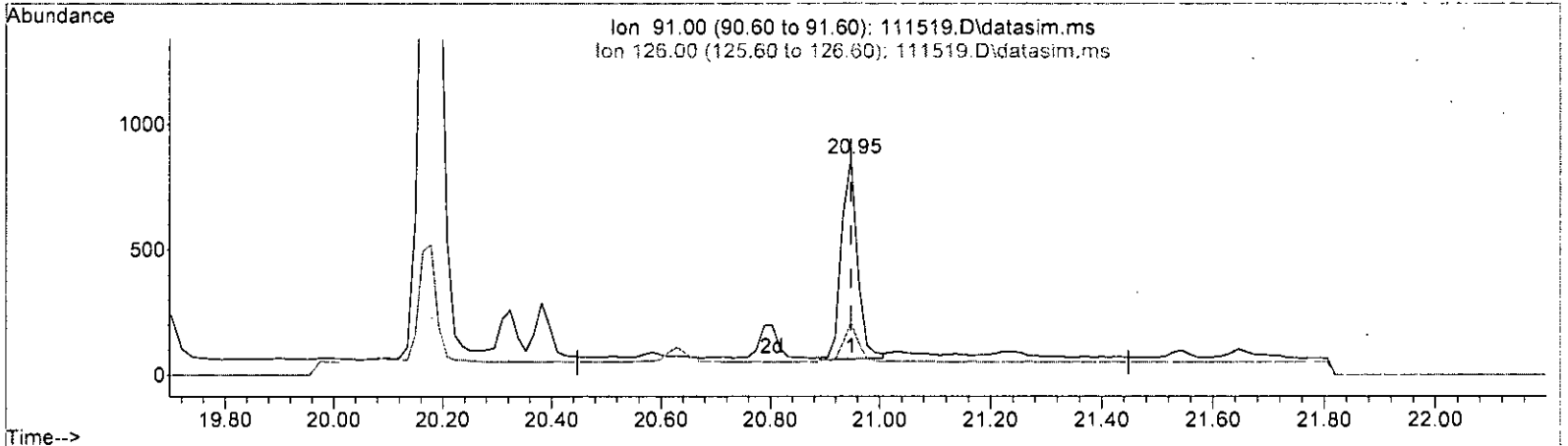
*Handwritten: 11/18/22*

(70) Benzyl chloride (TMP)		
20.948min	0.000 ppbv d	
response	0	
Ion	Exp%	Act%
91.00	100.00	0.00
126.00	20.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

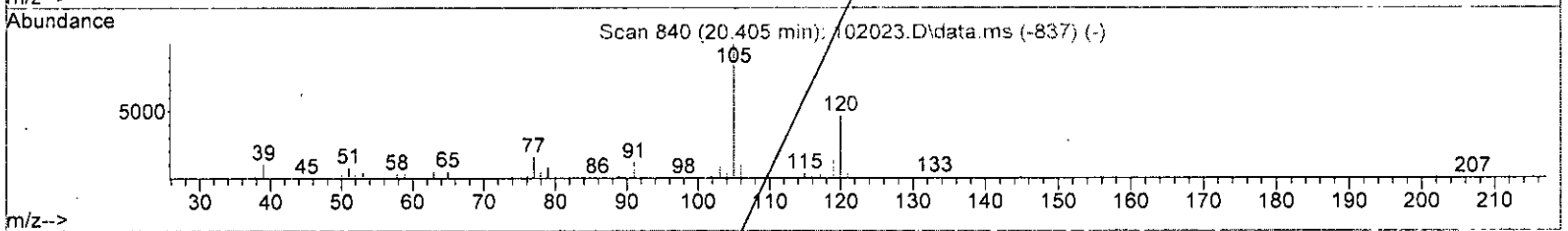
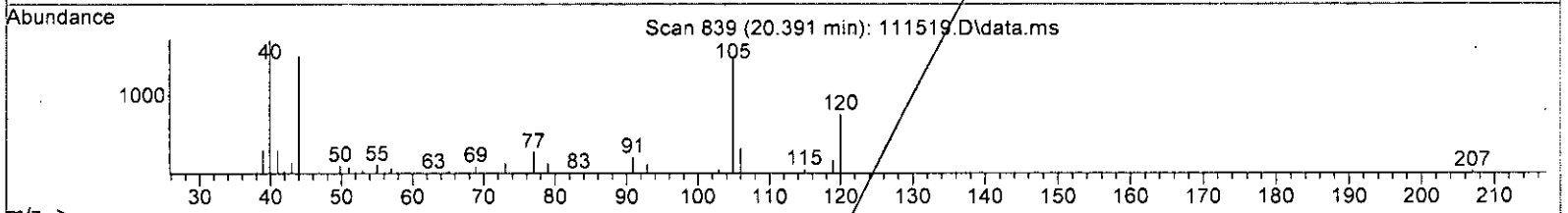
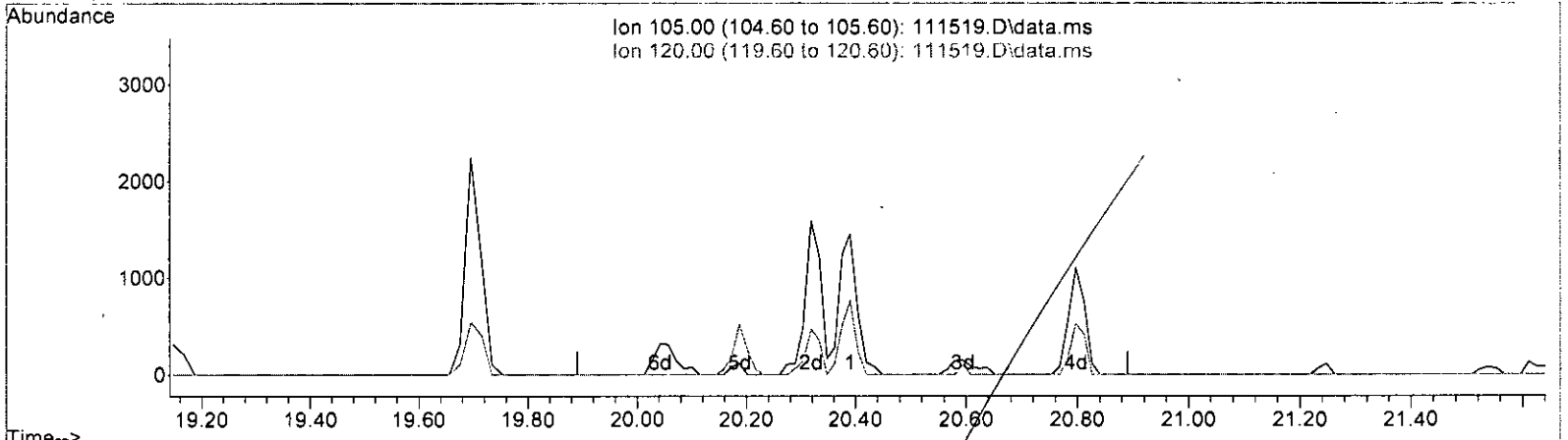
(70) Benzyl chloride (TMP)		
20.948min (+ 0.000)	0.058 ppbv m	
response	1628	
Ion	Exp%	Act%
91.00	100.00	100.00
126.00	20.00	24.33
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

Ion	Exp%	Act%
105.00	100.00	0.00
120.00	43.40	0.00
0.00	0.00	0.00
0.00	0.00	0.00

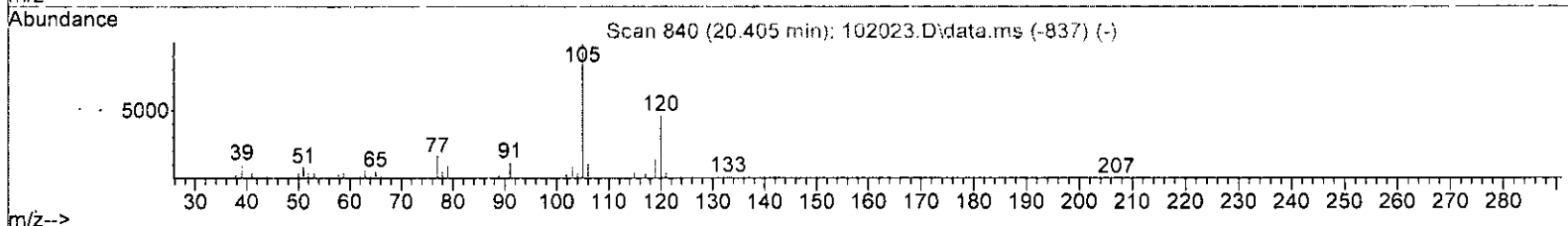
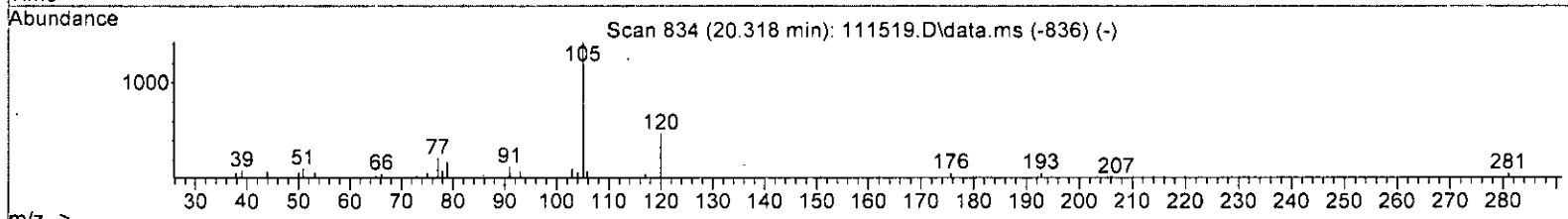
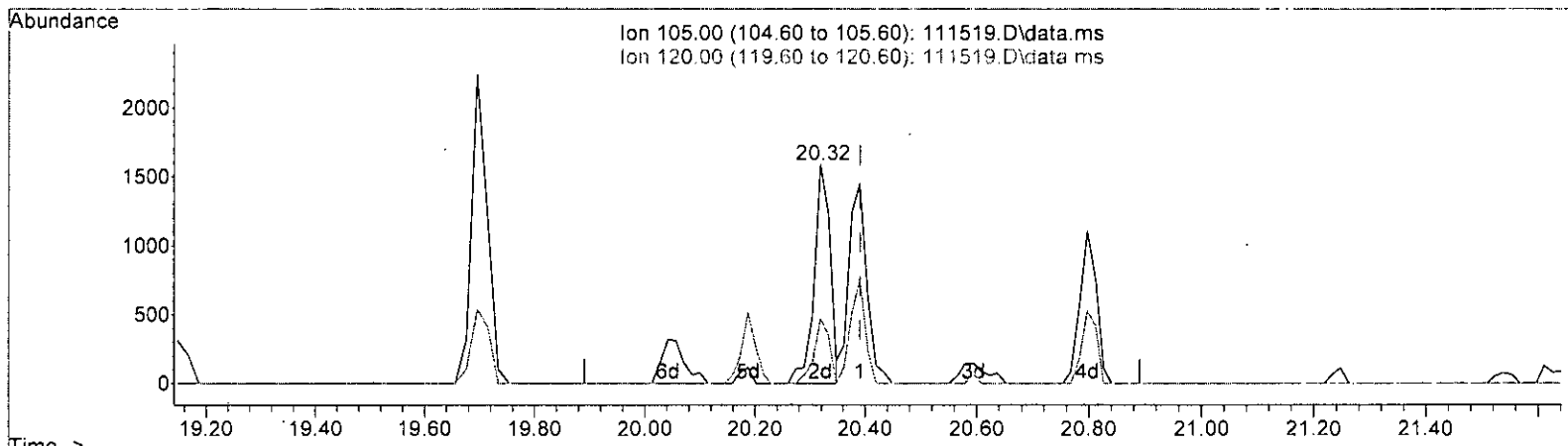
(71) 1,3,5-Trimethylbenzene (TMP)  
 20.391min 0.000 ppbv d  
 response 0

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111519.D\data.ms

(71) 1,3,5-Trimethylbenzene (TMP)

20.318min (-0.073) 0.088 ppbv m

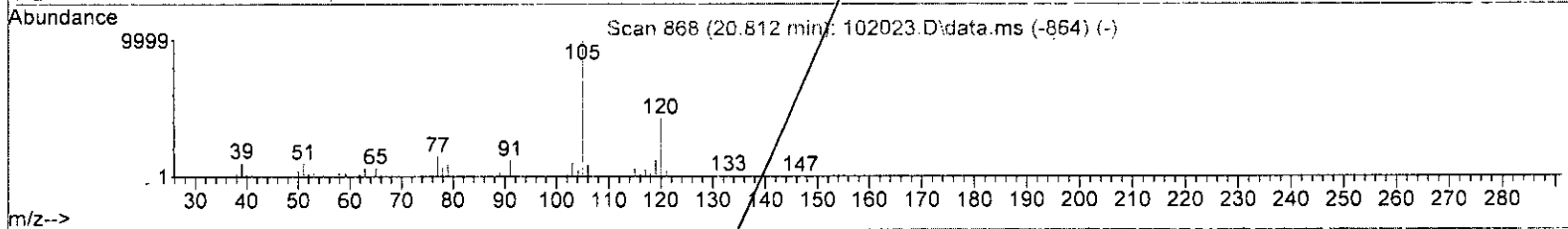
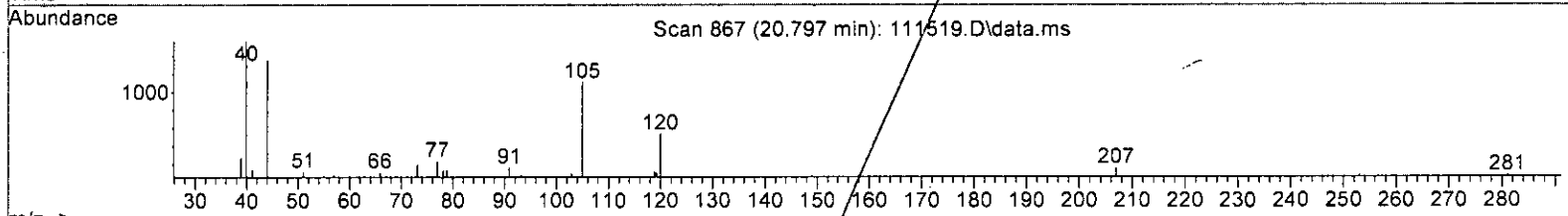
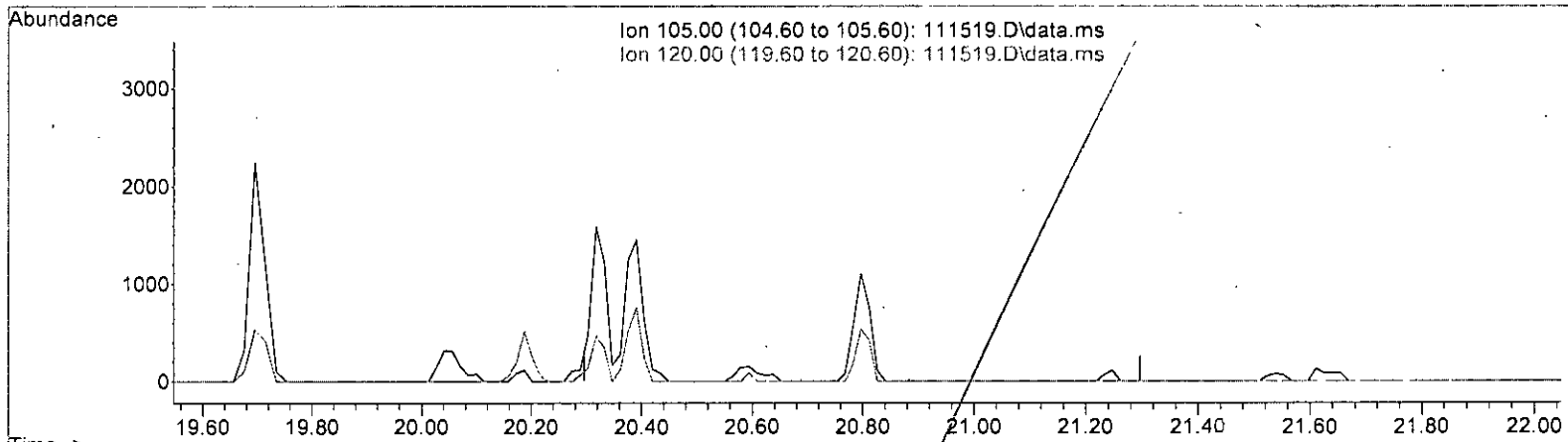
response	3200	
Ion	Exp%	Act%
105.00	100.00	100.00
120.00	43.40	29.57
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

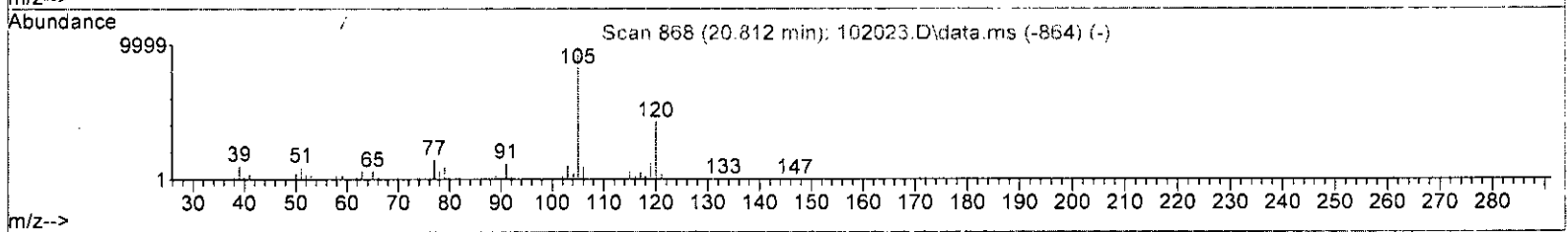
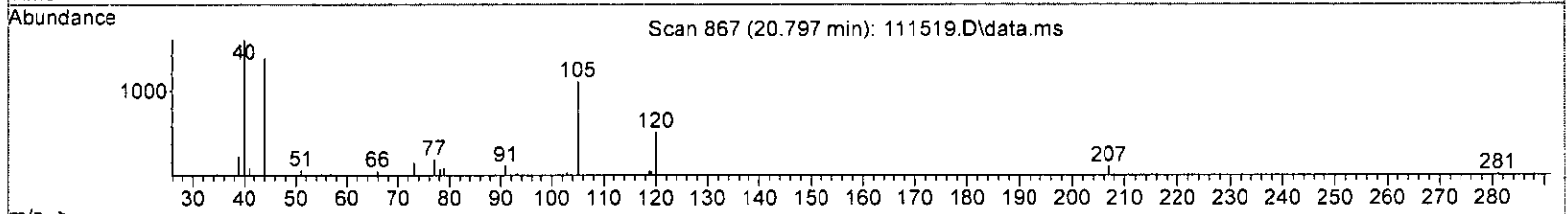
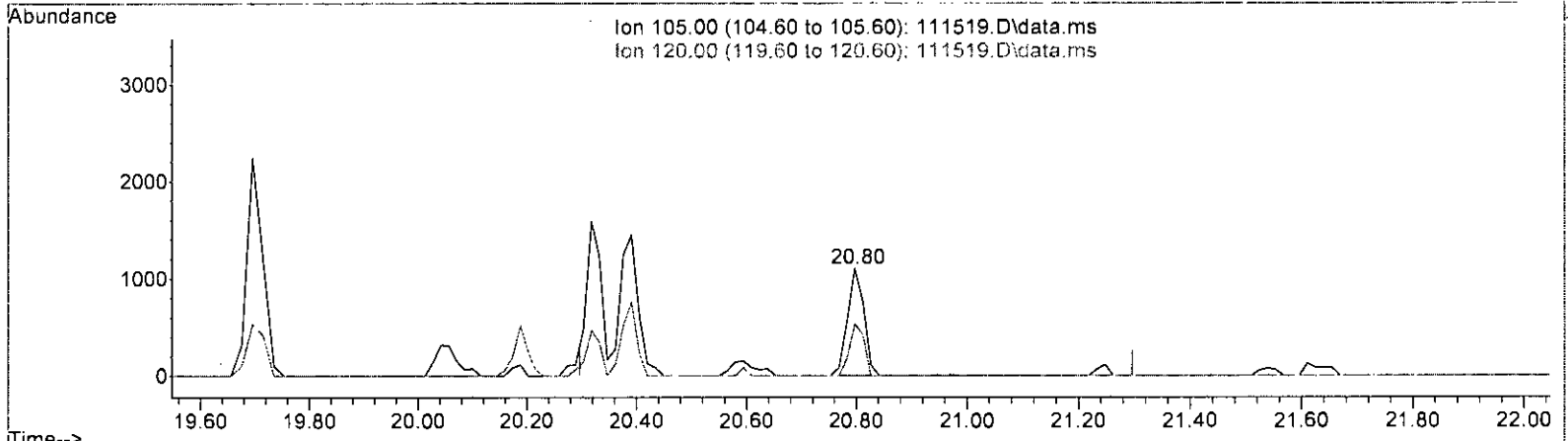
(72) 1,2,4-Trimethylbenzene (TMP)		
20.797min	0.000 ppbv d	
response	0	
Ion	Exp%	Act%
105.00	100.00	0.00
120.00	41.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(72) 1,2,4-Trimethylbenzene (TMP)

20.797min (+ 0.000) 0.132 ppbv m

response	2264	
Ion	Exp%	Act%
105.00	100.00	100.00
120.00	41.00	48.05
0.00	0.00	0.00
0.00	0.00	0.00

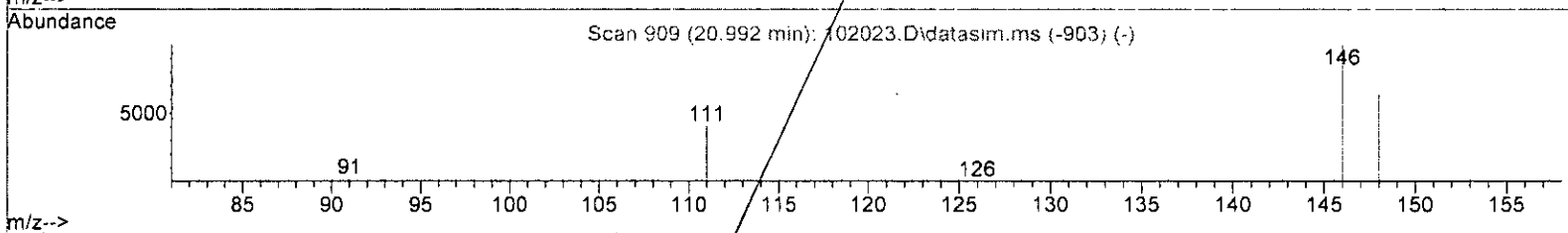
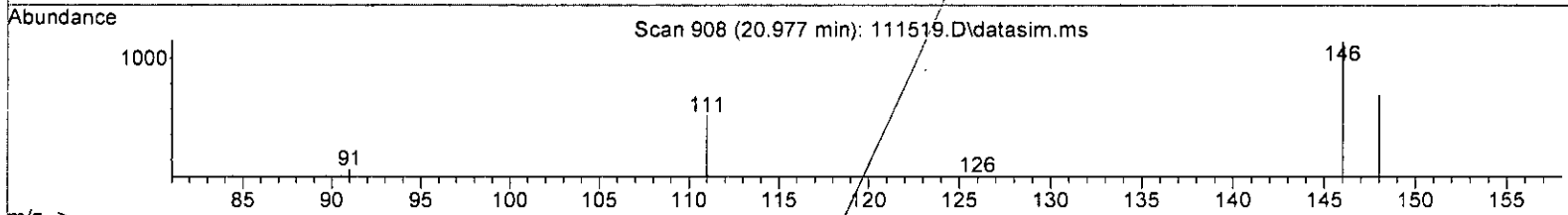
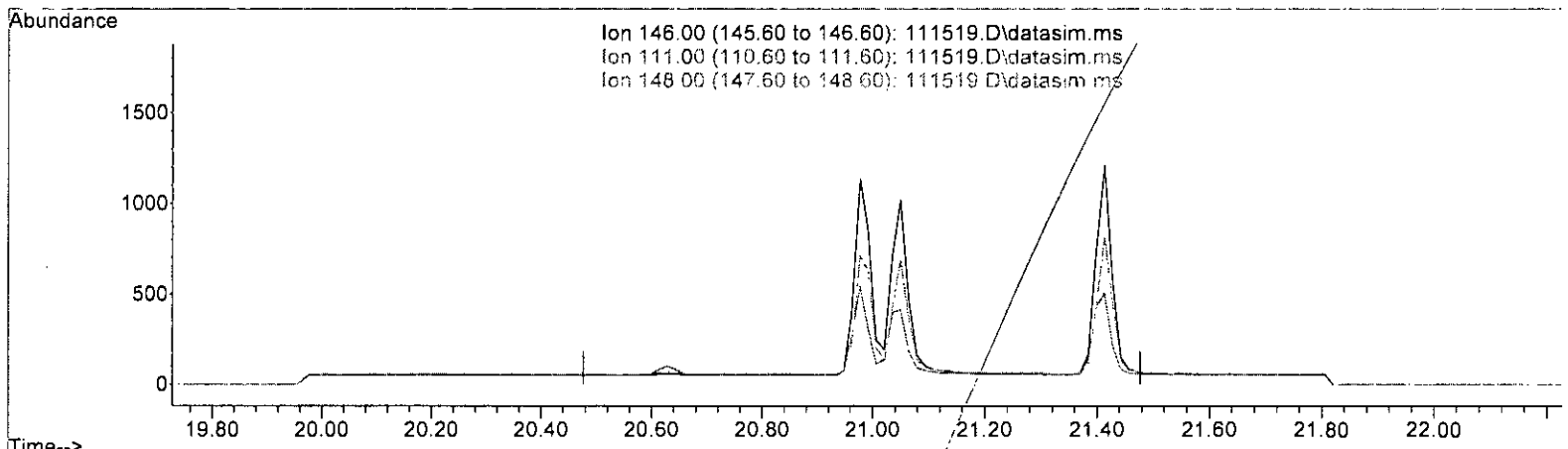
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

Ion	Exp%	Act%
146.00	100.00	0.00
111.00	43.60	0.00
148.00	62.60	0.00
0.00	0.00	0.00

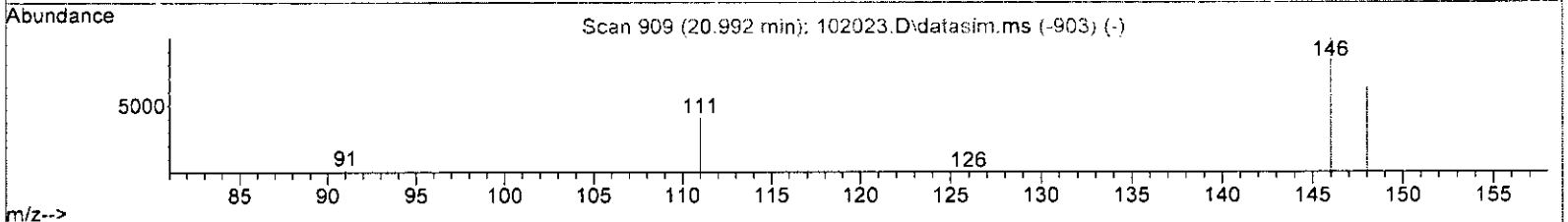
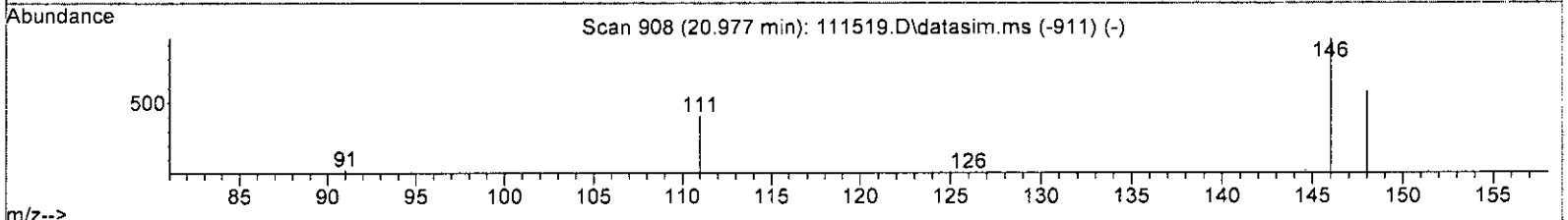
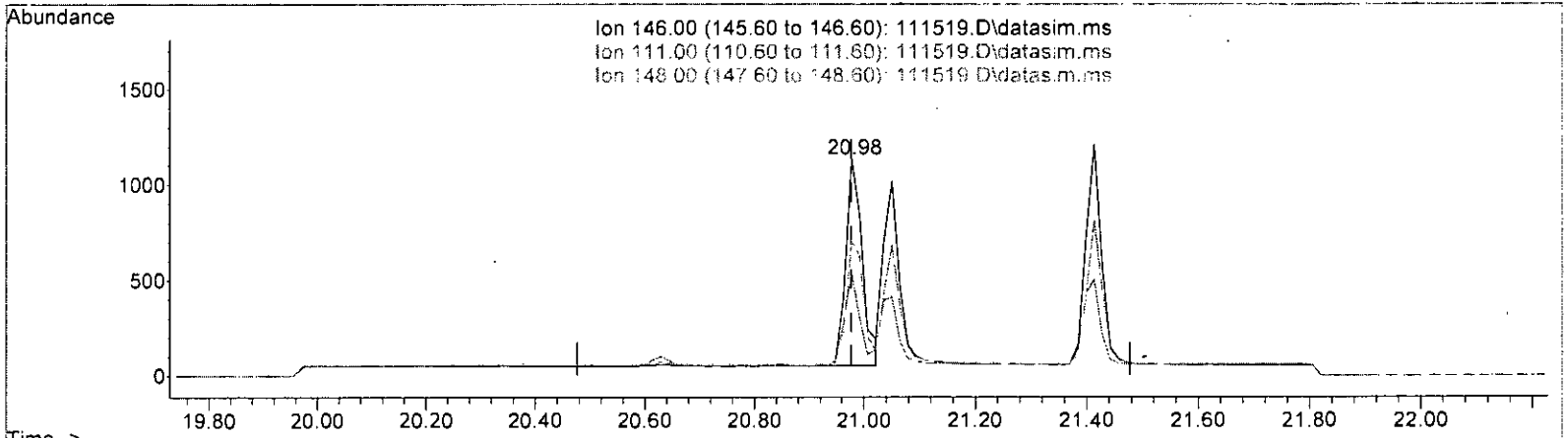
(73) 1,3-Dichlorobenzene (TMP)  
 20.977min 0.000 ppbv d  
 response 0

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(73) 1,3-Dichlorobenzene (TMP)

20.977min (+ 0.000) 0.088 ppbv m

response 2242

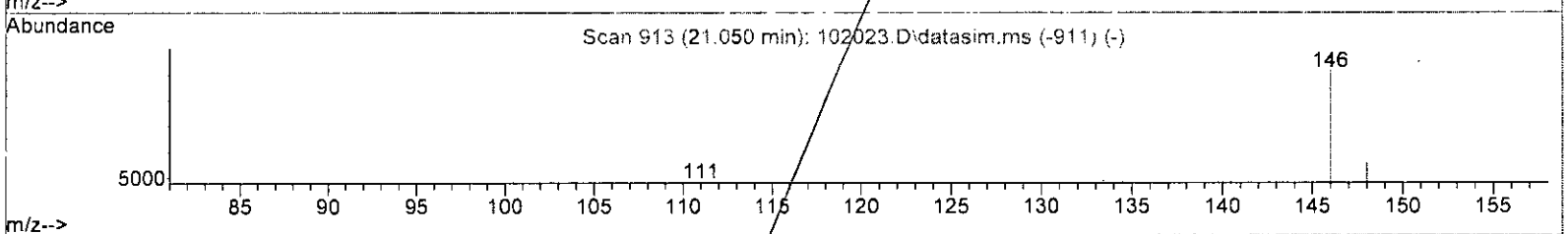
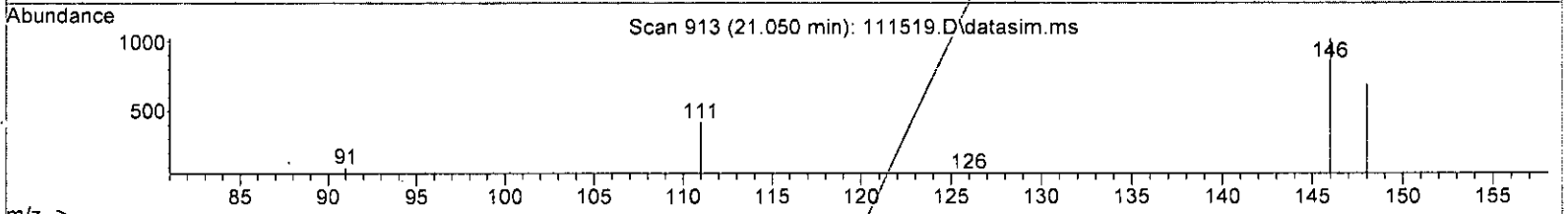
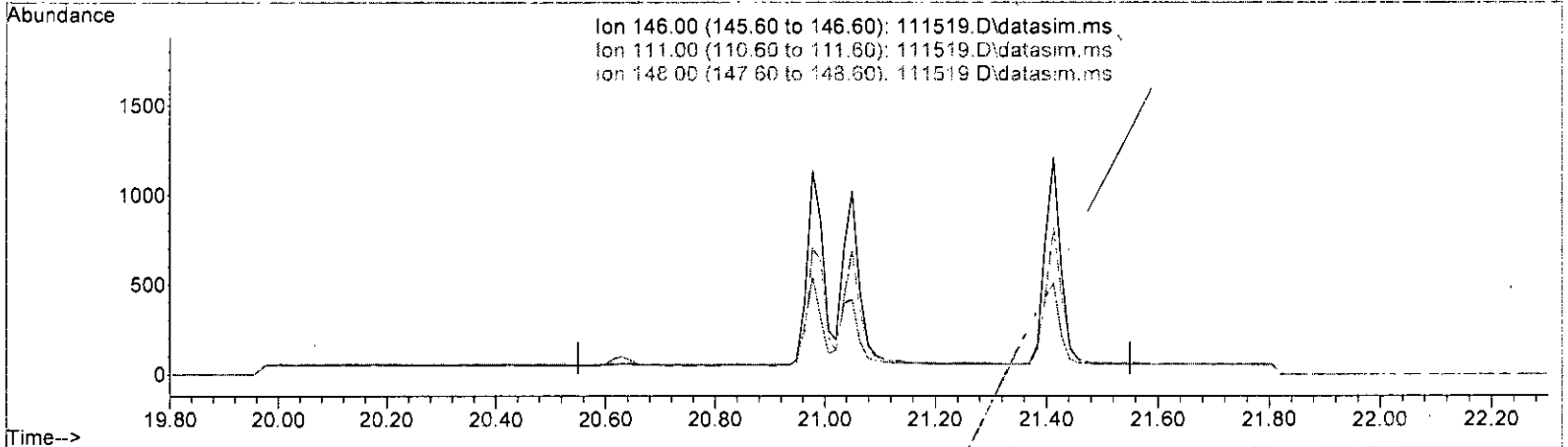
Ion	Exp%	Act%
146.00	100.00	100.00
111.00	43.60	47.67
148.00	62.60	62.38
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

Ion	Exp%	Act%
146.00	100.00	0.00
111.00	35.50	0.00
148.00	68.80	0.00
0.00	0.00	0.00

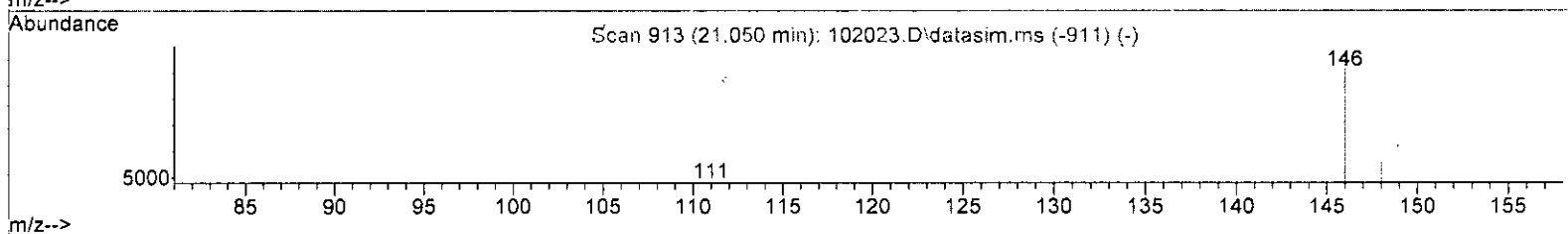
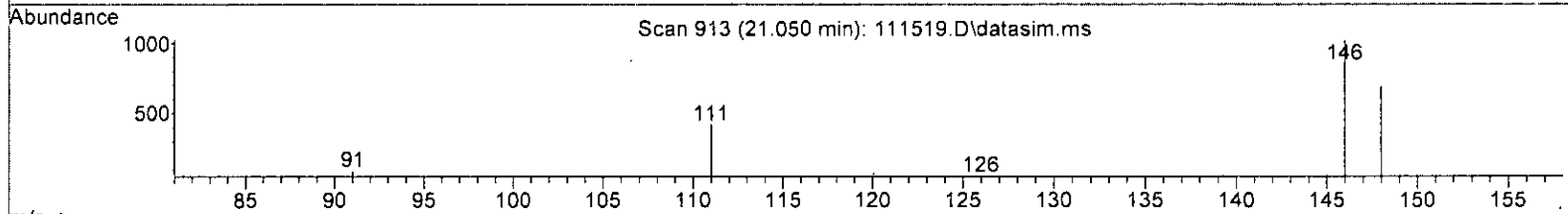
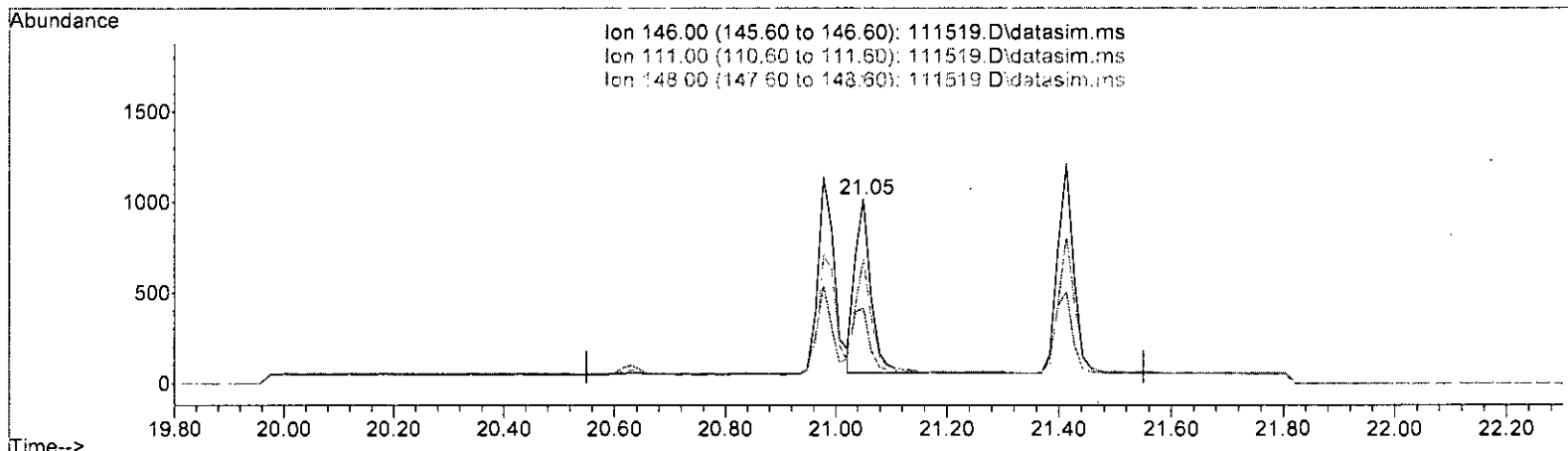
(74) 1,4-Dichlorobenzene (TMP)  
 21.050min 0.000 ppbv d  
 response 0

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(74) 1,4-Dichlorobenzene (TMP)

21.050min (+ 0.000) 0.082 ppbv m

response 1951

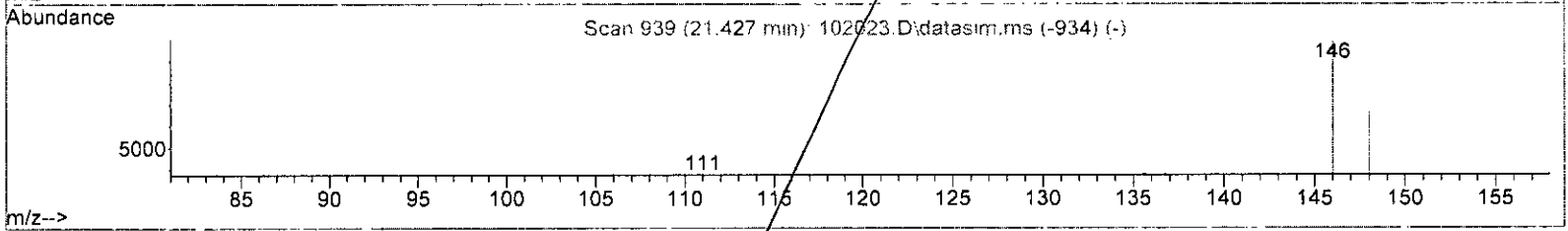
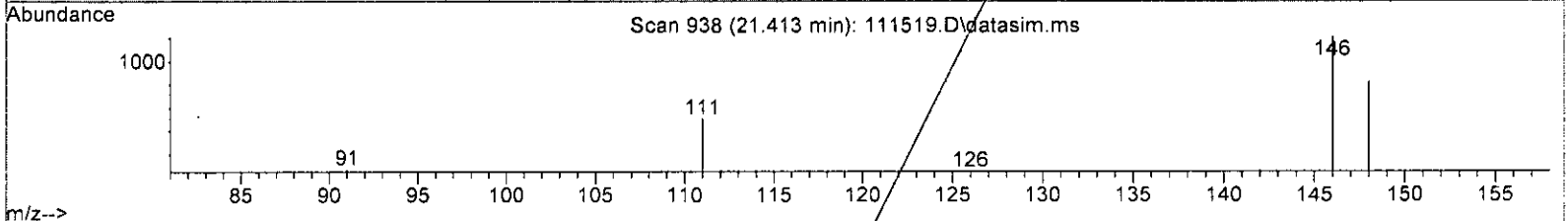
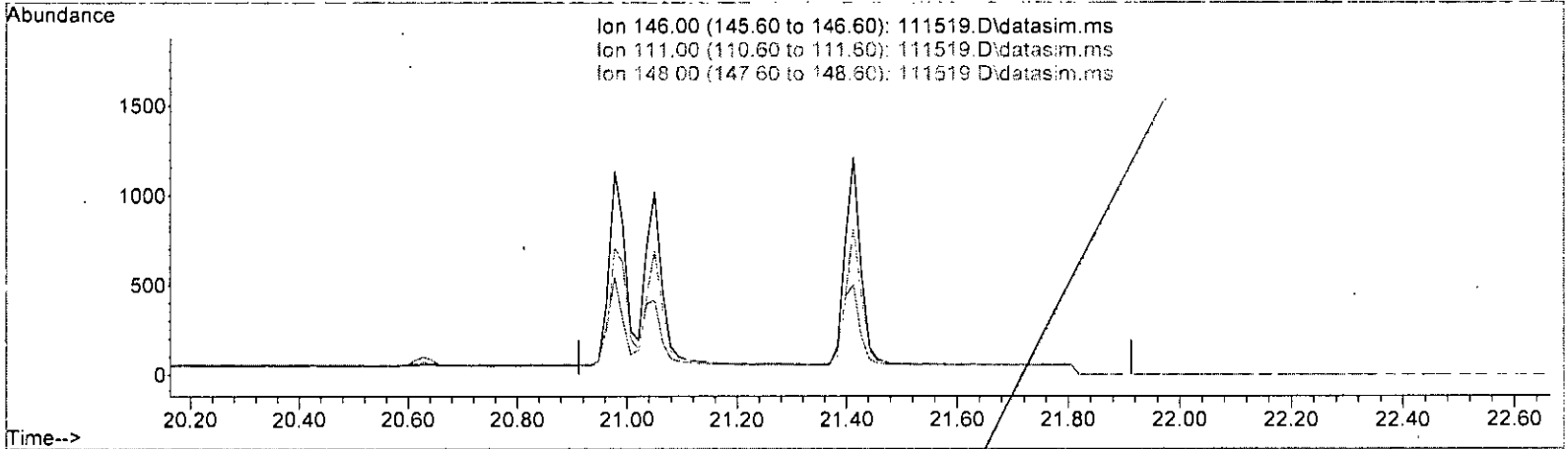
Ion	Exp%	Act%
146.00	100.00	100.00
111.00	35.50	40.81
148.00	68.80	67.45
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111519.D\data.ms

Ion	Exp%	Act%
146.00	100.00	0.00
111.00	42.90	0.00
148.00	63.20	0.00
0.00	0.00	0.00

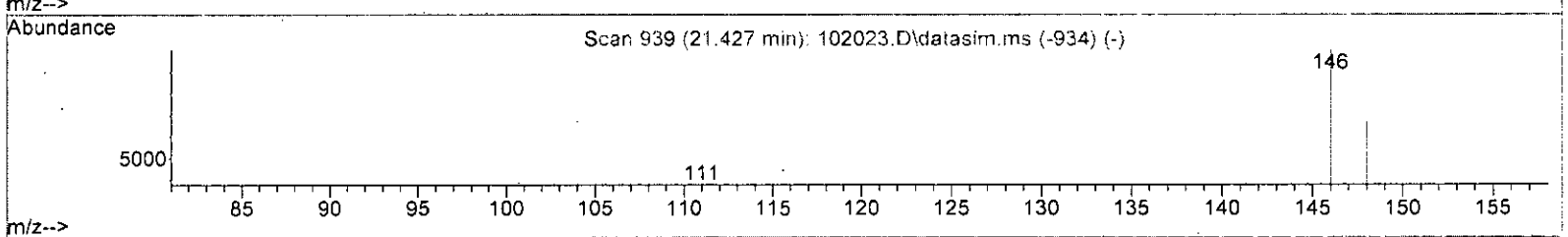
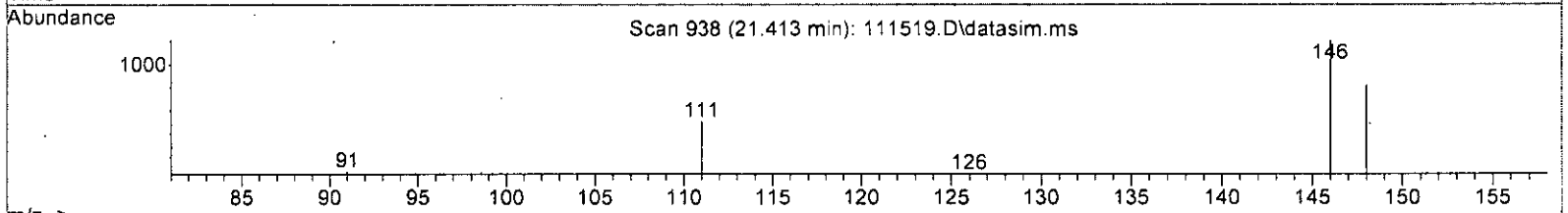
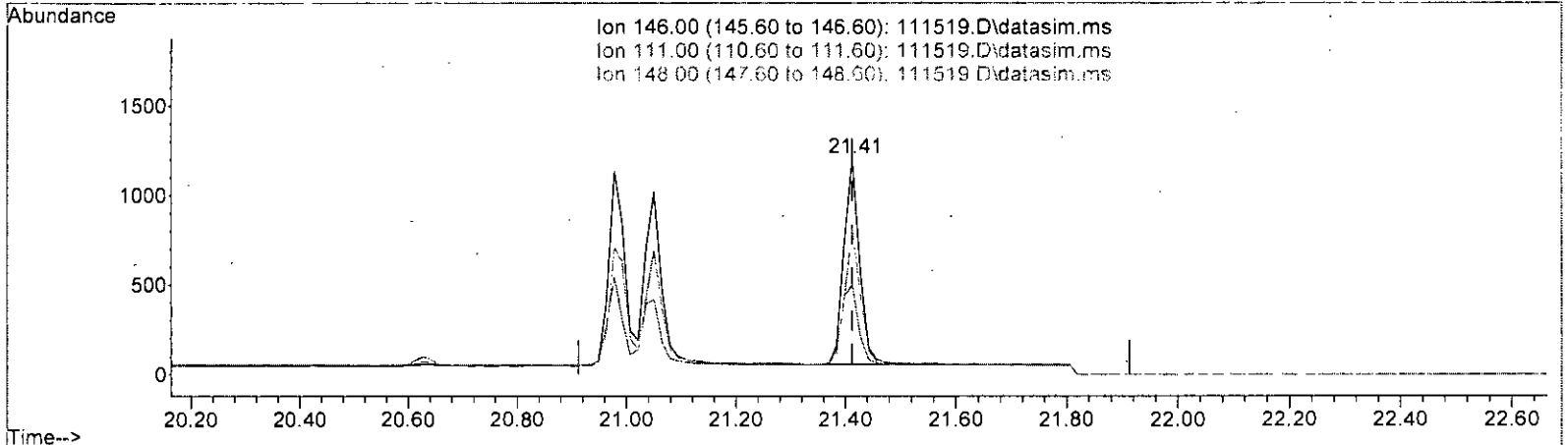
(75) 1,2-Dichlorobenzene (TMP)  
 21.413min 0.000 ppbv d  
 response 0

*W. H. Hester*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(75) 1,2-Dichlorobenzene (TMP)

21.413min (+ 0.000) 0.088 ppbv m

response 2266

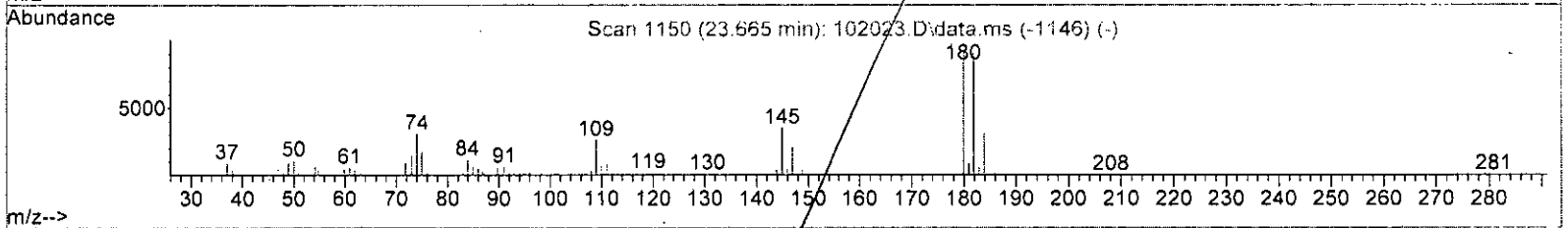
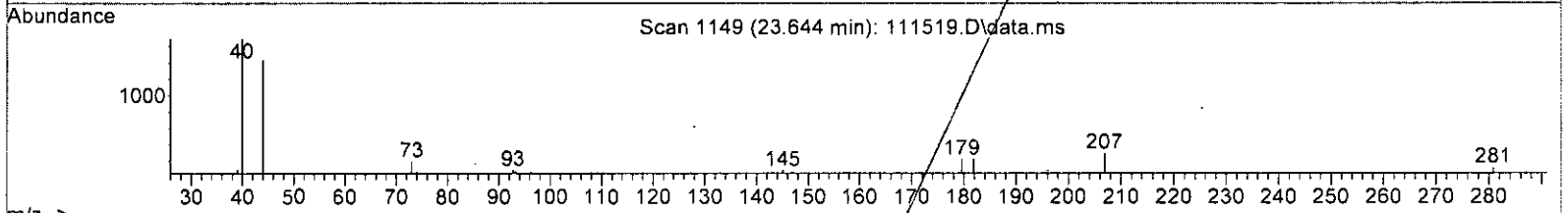
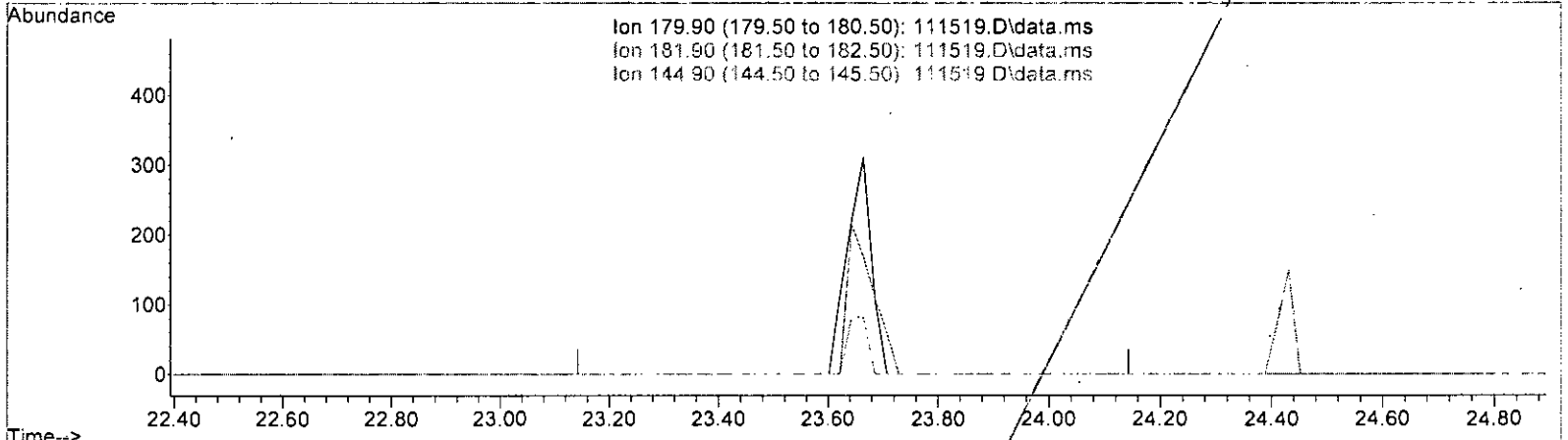
Ion	Exp%	Act%
146.00	100.00	100.00
111.00	42.90	41.69
148.00	63.20	67.58
0.00	0.00	0.00

*u/Mark*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(76) 1,2,4-Trichlorobenzene (TMP)

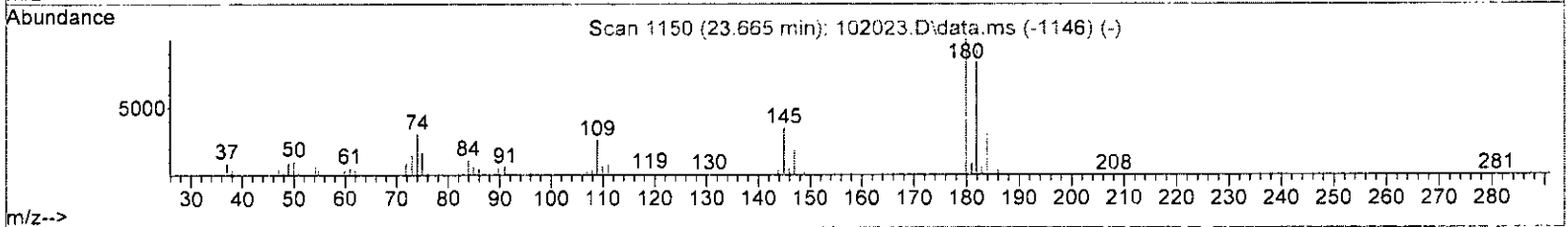
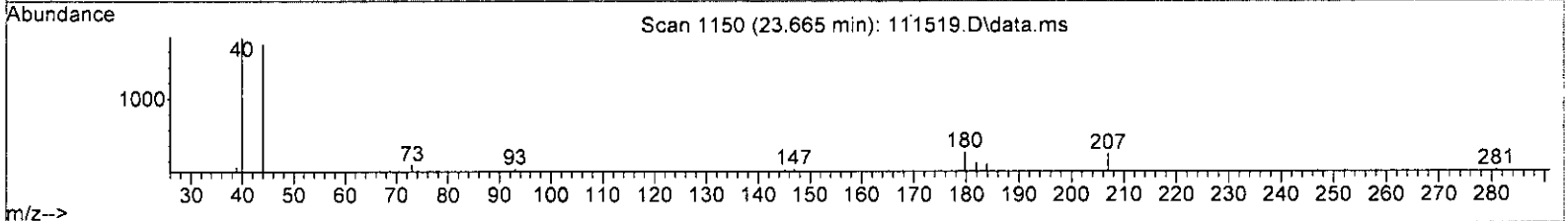
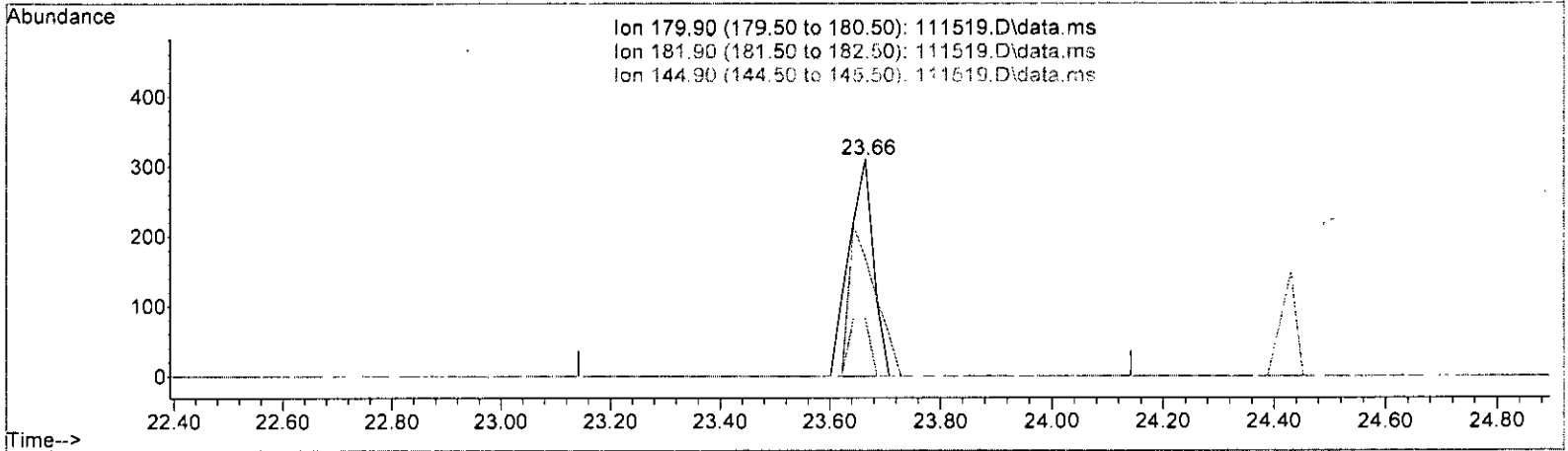
23.643min	0.000 ppbv d
response	0
Ion	Exp% Act%
179.90	100.00 0.00
181.90	94.50 0.00
144.90	30.80 0.00
0.00	0.00 0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111519.D\data.ms

(76) 1,2,4-Trichlorobenzene (TMP)

23.665min (+ 0.022) 0.067 ppbv m

response 956

Ion	Exp%	Act%
179.90	100.00	100.00
181.90	94.50	54.52#
144.90	30.80	26.45
0.00	0.00	0.00

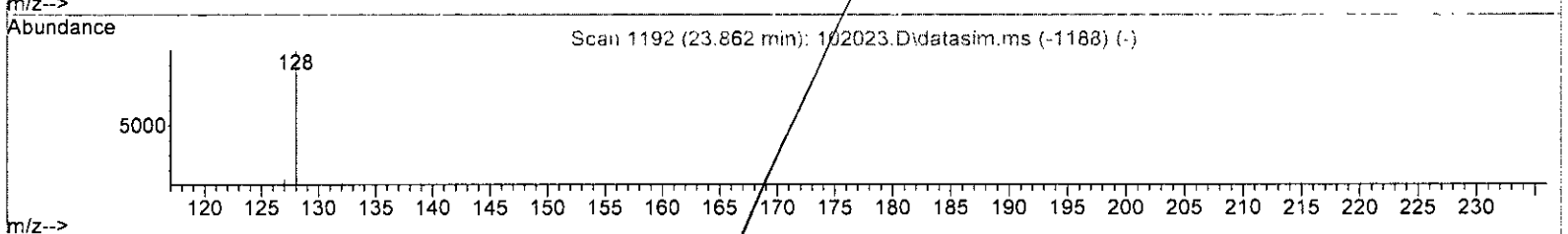
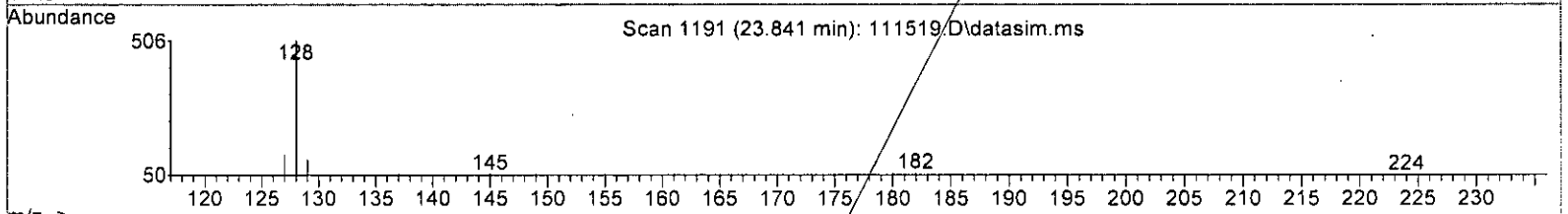
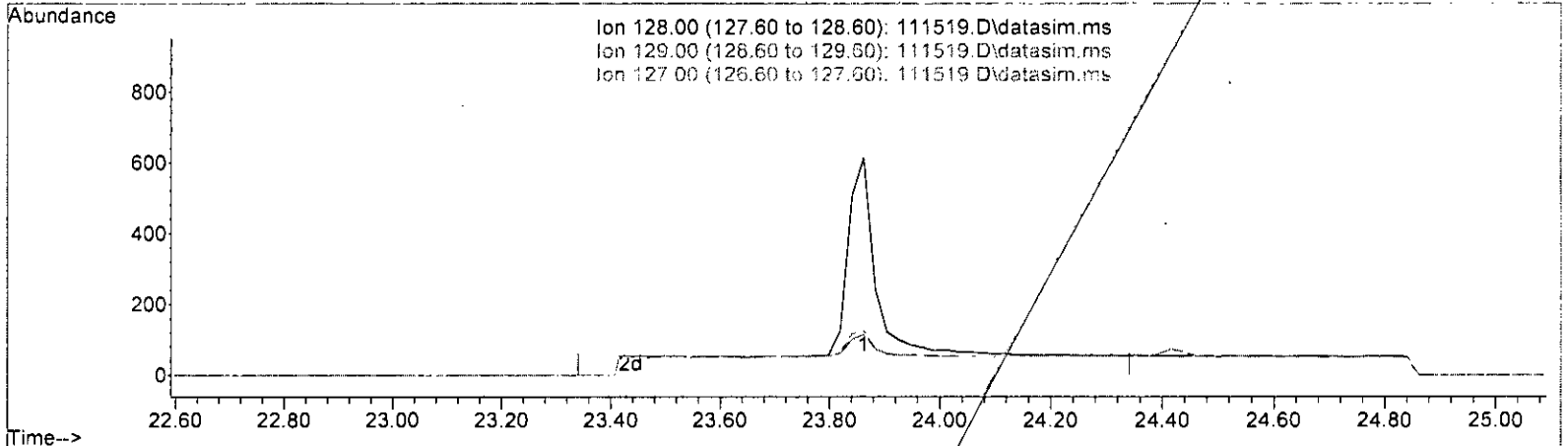
*Handwritten signature*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(77) Naphthalene (TMP)

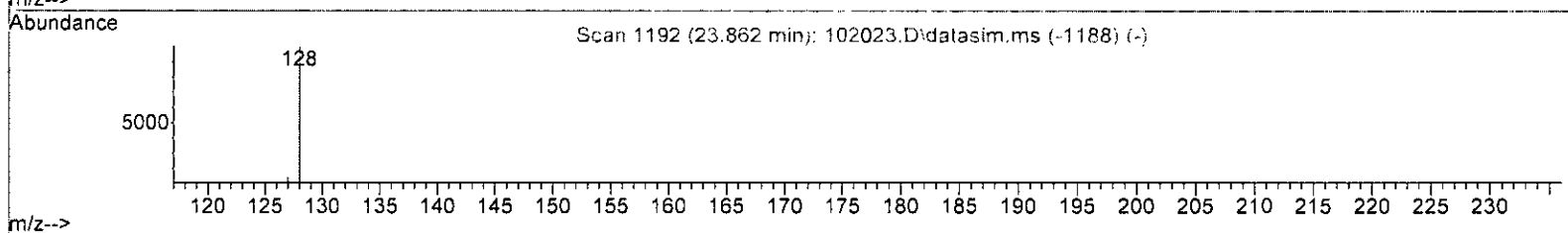
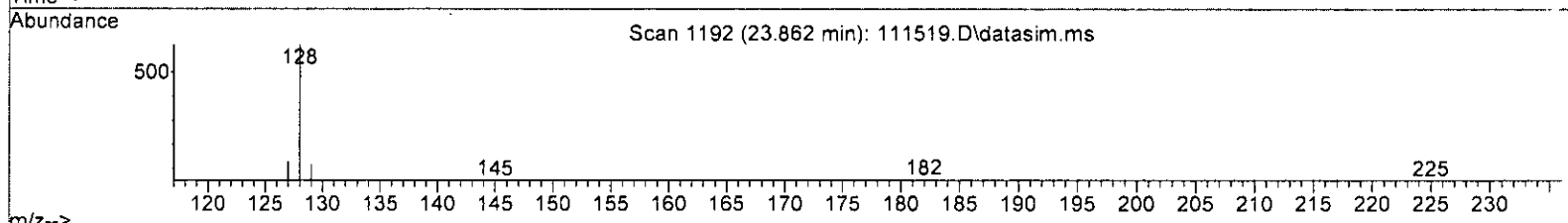
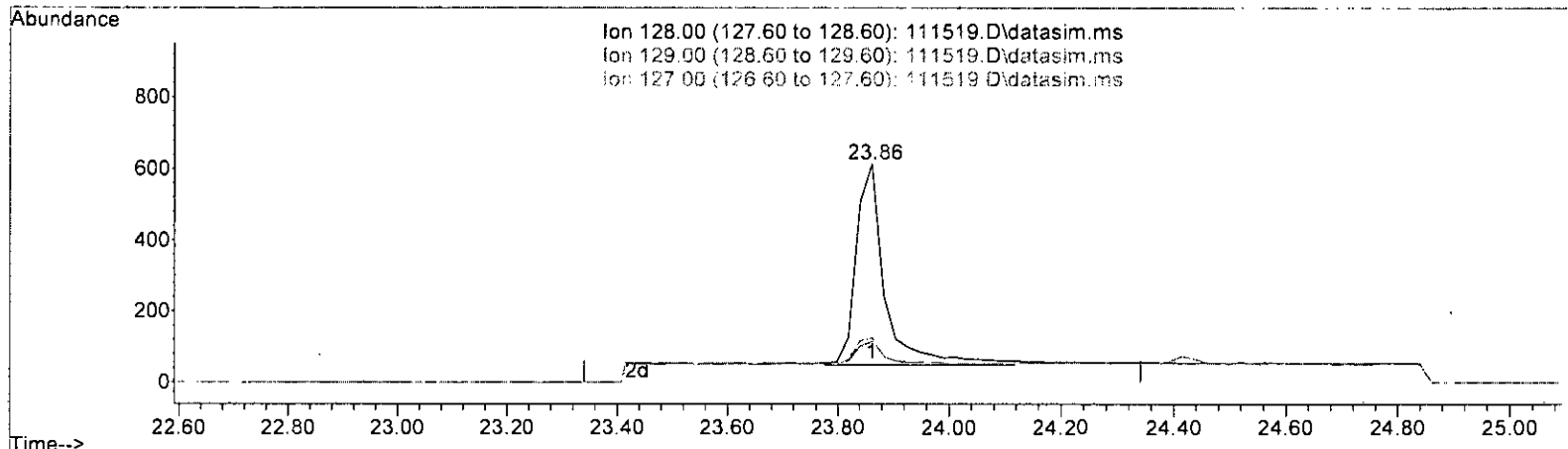
23.841min	0.000 ppbv d
response	0
Ion	Exp% Act%
128.00	100.00 0.00
129.00	11.00 0.00
127.00	13.20 0.00
0.00	0.00 0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(77) Naphthalene (TMP)

23.862min (+ 0.021) 0.092 ppbv m

response 2039

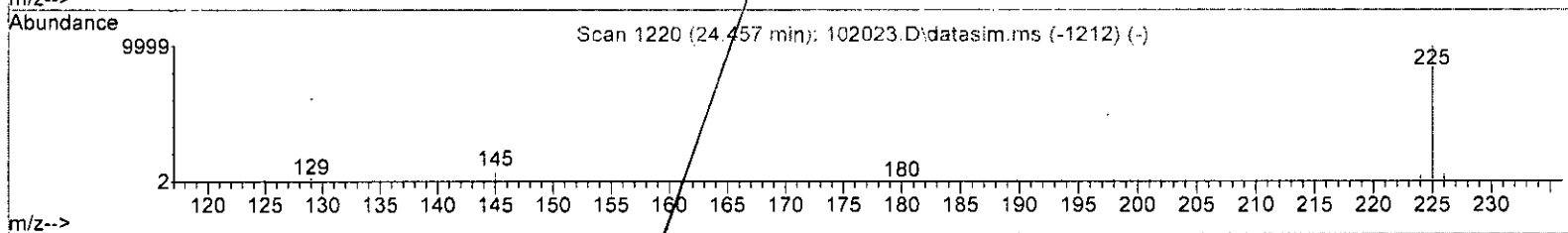
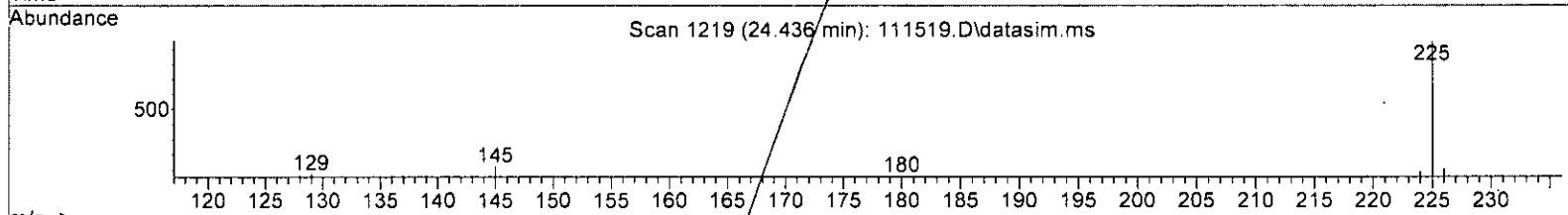
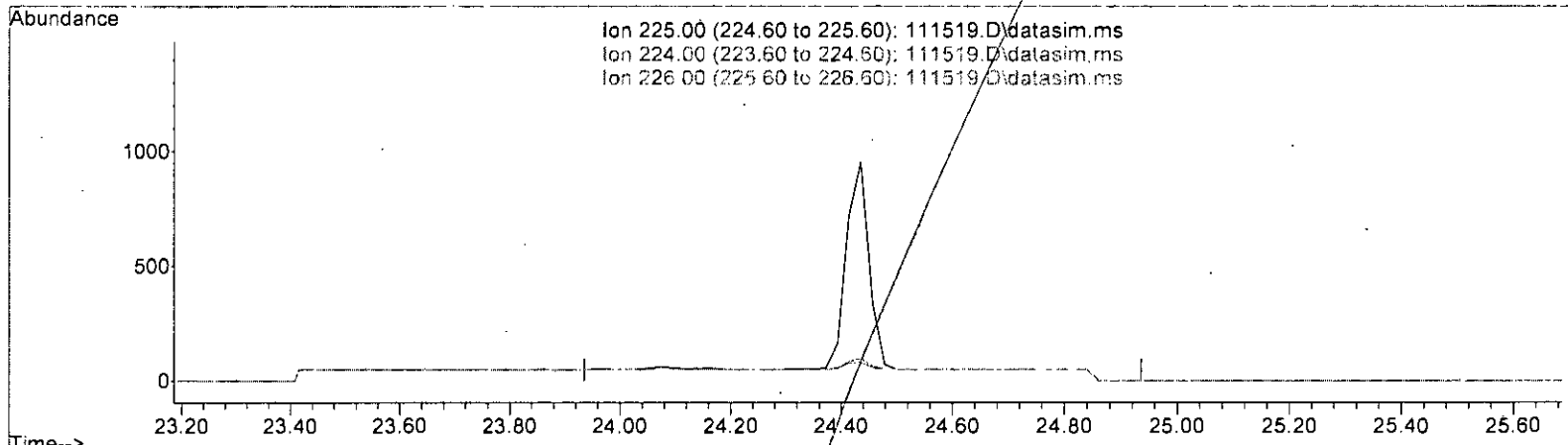
Ion	Exp%	Act%
128.00	100.00	100.00
129.00	11.00	18.76
127.00	13.20	20.39
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(78) Hexachlorobutadiene (TMP)

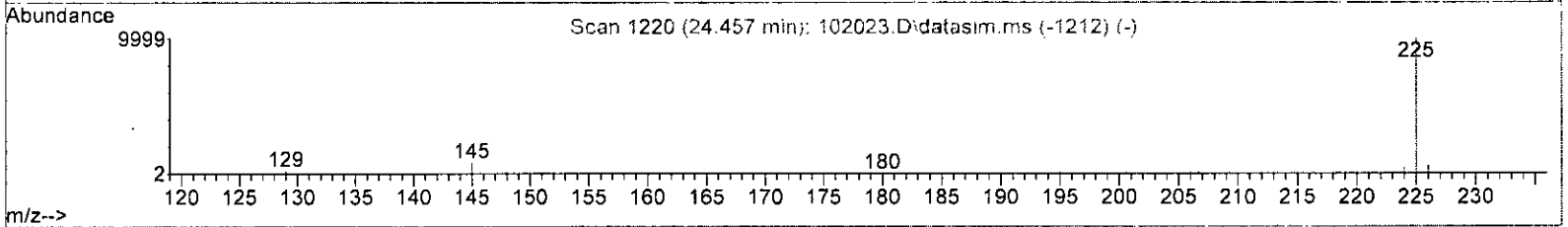
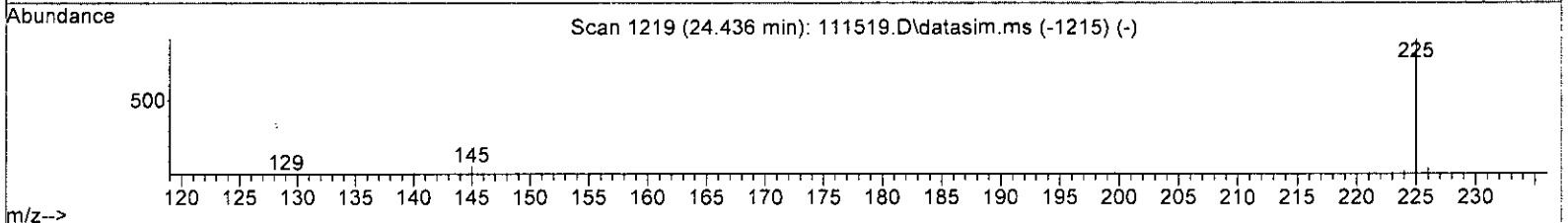
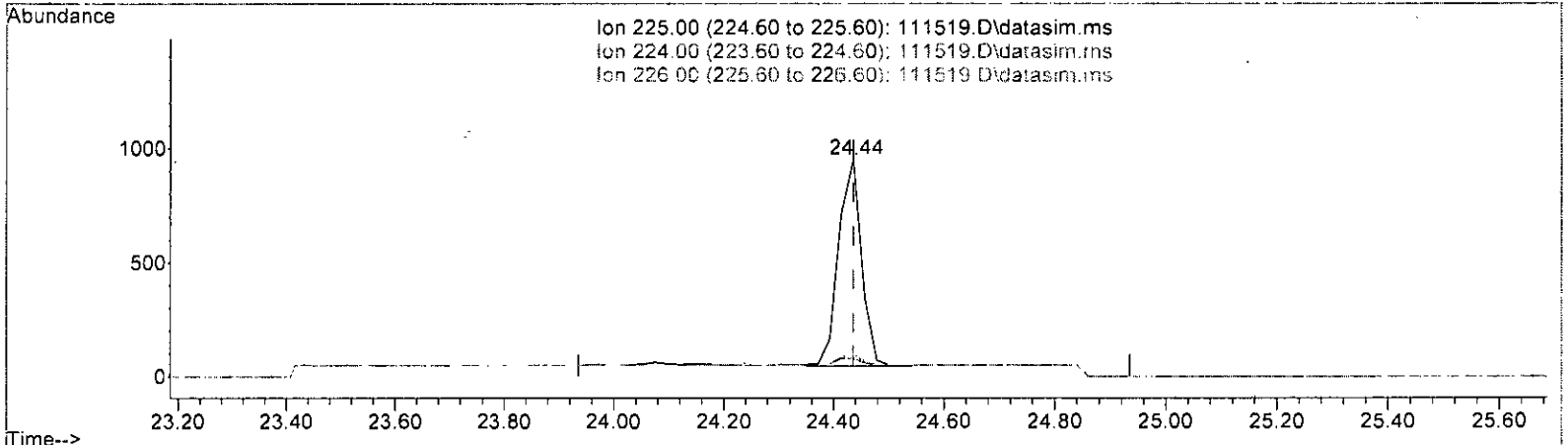
24.436min	0.000 ppbv d	
response	0	
Ion	Exp%	Act%
225.00	100.00	0.00
224.00	3.70	0.00
226.00	5.20	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(78) Hexachlorobutadiene (TMP)

24.436min (+ 0.000) 0.099 ppbv m

response	2616	
Ion	Exp%	Act%
225.00	100.00	100.00
224.00	3.70	8.60
226.00	5.20	10.28
0.00	0.00	0.00

*W/ 11/18/22*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	62284	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	285873	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	251782	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	157205	9.009	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	90.10%	
Target Compounds						
						Qvalue
2) Propene	3.41	41	1650	0.099	ppbv	82
3) Dichlorodifluoromethane	3.49	85	2289	0.089	ppbv	94
4) Chloromethane	0.00		0	N.D.	d	
5) F-114	3.84	85	2866	0.109	ppbv	77
6] Vinyl chloride	4.05	62	1161	0.101	ppbv	97
7] 1,3-Butadiene	4.17	54	728m	0.096	ppbv	
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	4.60	94	1683	0.146	ppbv	91
10] Chloroethane	4.84	64	470m	0.115	ppbv	
11] Vinyl bromide	5.28	106	999m	0.100	ppbv	
12) Ethanol	0.00		0	N.D.	d	
13] Acrolein	5.36	56	691m	0.152	ppbv	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	0.00		0	N.D.	d	
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	0.00		0	N.D.	d	
18] 1,1-Dichloroethene	6.63	96	1029	0.100	ppbv	86
19] trans-1,2-Dichloroethene	8.07	96	987	0.099	ppbv	86
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	0.00		0	N.D.	d	
23) CFC-113	7.15	101	1975	0.091	ppbv #	64
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	0.00		0	N.D.	d	
26) Vinyl acetate	0.00		0	N.D.	d	
27] 1,1-Dichloroethane	8.36	63	2108	0.101	ppbv	98
28] cis-1,2-Dichloroethene	9.62	96	1059	0.101	ppbv	94
29) Hexane	0.00		0	N.D.	d	
30] Chloroform	10.08	83	2435	0.096	ppbv	99
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	10.75	42	1212	0.108	ppbv	67
33) 2-Butanone (MEK)	8.91	72	345	0.090	ppbv #	69
34] 1,2-Dichloroethane (EDC)	11.33	62	1571	0.094	ppbv	98
35] 1,1,1-Trichloroethane	11.81	97	1935m	0.093	ppbv	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37] Benzene	12.61	78	6181	0.131	ppbv	94
38) Cyclohexane	0.00		0	N.D.	d	
40] 1,2-Dichloropropane	13.80	63	1540m	0.099	ppbv	

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

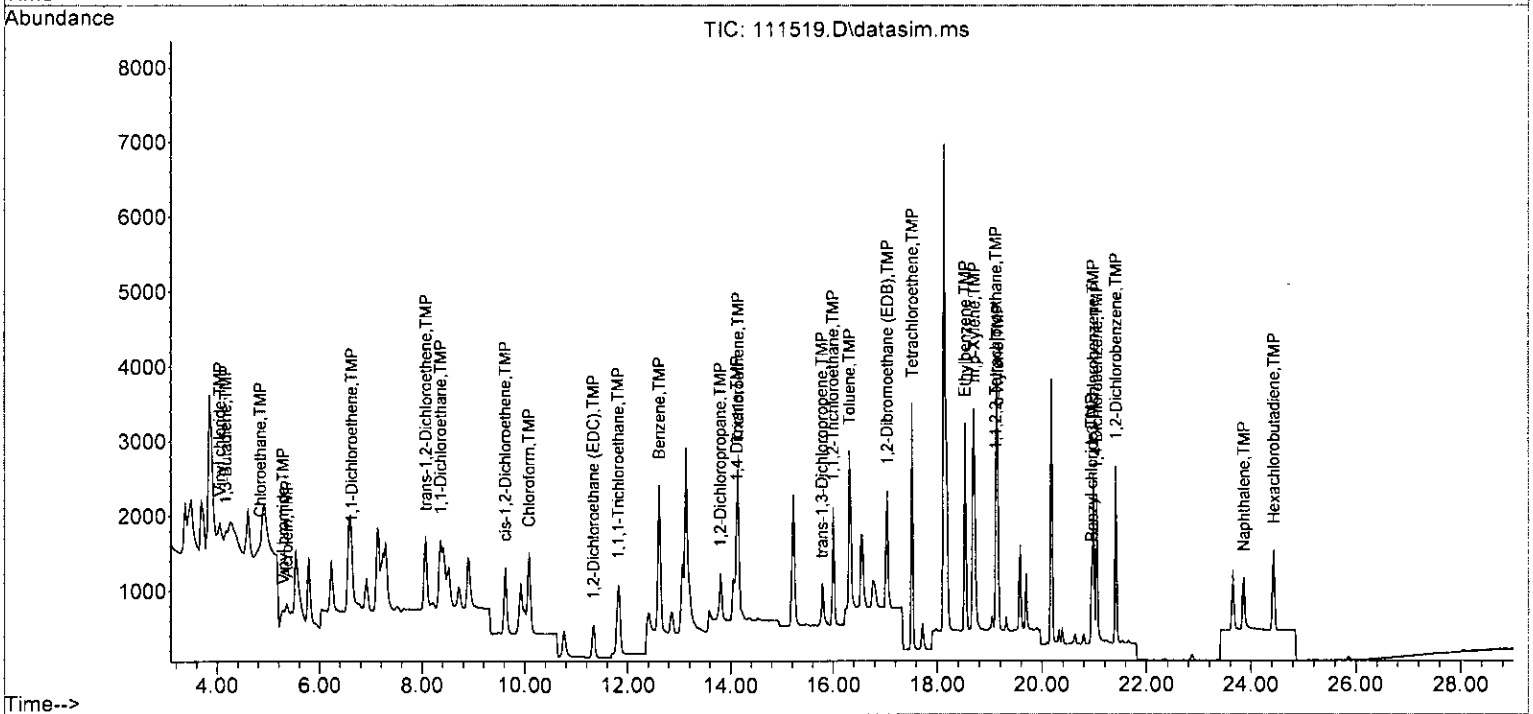
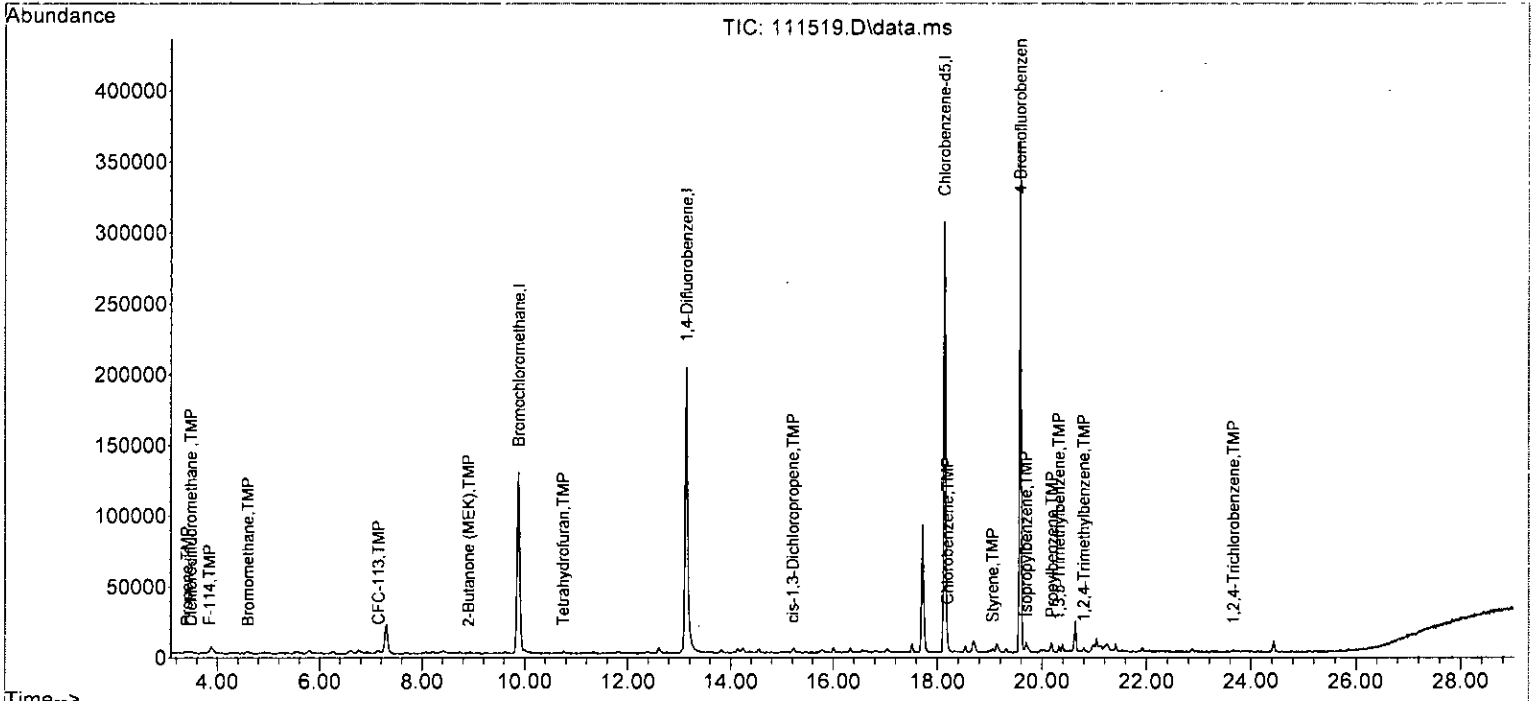
Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.12	88	712	0.108	ppbv	80
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45) Bromodichloromethane	0.00		0	N.D.	d	
46] Trichloroethene	14.14	95	1810	0.107	ppbv	94
47) cis-1,3-Dichloropropene	15.20	75	1584	0.093	ppbv	92
48) 4-Methyl-2-pentanone	0.00		0	N.D.		
49] trans-1,3-Dichloropropene	15.78	75	1484	0.092	ppbv	84
50] Toluene	16.31	92	2091m	0.103	ppbv	
51] 1,1,2-Trichloroethane	16.00	83	1487	0.094	ppbv	94
52) 2-Hexanone	0.00		0	N.D.	d	
53] Tetrachloroethene	17.52	164	1574	0.112	ppbv	92
54) Dibromochloromethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	2202m	0.093	ppbv	
57) Chlorobenzene	18.19	112	3473	0.125	ppbv	89
58] Ethylbenzene	18.53	91	4477	0.092	ppbv	97
59] 1,1,2,2-Tetrachloroethane	19.11	83	3228	0.091	ppbv	89
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	19.70	105	4501	0.100	ppbv #	90
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63) Propylbenzene	20.19	91	6637	0.080	ppbv	96
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65] m,p-Xylene	18.70	106	2860	0.179	ppbv	97
66] o-Xylene	19.15	106	1396	0.090	ppbv	99
67) Styrene	19.05	104	1737	0.084	ppbv	74
68) Bromoform	0.00		0	N.D.		
70] Benzyl chloride	20.95	91	1628m	0.058	ppbv	
71) 1,3,5-Trimethylbenzene	20.32	105	3200m	0.088	ppbv	
72) 1,2,4-Trimethylbenzene	20.80	105	2264m	0.132	ppbv	
73] 1,3-Dichlorobenzene	20.98	146	2242m	0.088	ppbv	
74] 1,4-Dichlorobenzene	21.05	146	1951m	0.082	ppbv	
75] 1,2-Dichlorobenzene	21.41	146	2266m	0.088	ppbv	
76) 1,2,4-Trichlorobenzene	23.66	180	956m	0.067	ppbv	
77] Naphthalene	23.86	128	2039m	0.092	ppbv	
78] Hexachlorobutadiene	24.44	225	2616m	0.099	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	0.100	0.099	1.0	100	0.00
3 TMP Dichlorodifluoromethane	0.100	0.089	11.0	100	0.00
4 TMP Chloromethane	0.100	0.000	100.0#	0	-3.73#
5 TMP F-114	0.100	0.109	-9.0	100	-0.04
6 TMP Vinyl chloride	0.100	0.101	-1.0	100	-0.04
7 TMP 1,3-Butadiene	0.100	0.096	4.0	97	-0.12
8 TMP Butane	-1.000	0.000	0.0	0	-4.32#
9 TMP Bromomethane	0.100	0.146	-46.0#	100	0.00
10 TMP Chloroethane	0.100	0.115	-15.0	104	0.00
11 TMP Vinyl bromide	0.100	0.100	0.0	96	-0.04
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.96#
13 TMP Acrolein	0.100	0.152	-52.0#	99	-0.06
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	0.100	0.000	100.0#	0	-5.84#
16 TMP Acetone	-1.000	0.000	0.0	0	-5.57#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	0.100	0.100	0.0	100	0.00
19 TMP trans-1,2-Dichloroethene	0.100	0.099	1.0	100	-0.03
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.80#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	-1.000	0.000	0.0	0	-6.94#
23 TMP CFC-113	0.100	0.091	9.0	100	0.00
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-8.43#
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.54#
27 TMP 1,1-Dichloroethane	0.100	0.101	-1.0	100	0.00
28 TMP cis-1,2-Dichloroethene	0.100	0.101	-1.0	100	-0.02
29 TMP Hexane	-1.000	0.000	0.0	0	-10.01#
30 TMP Chloroform	0.100	0.096	4.0	100	-0.02
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.92#
32 TMP Tetrahydrofuran	0.100	0.108	-8.0	100	0.00
33 TMP 2-Butanone (MEK)	0.100	0.090	10.0	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	0.100	0.094	6.0	100	0.00
35 TMP 1,1,1-Trichloroethane	0.100	0.093	7.0	100	-0.01
36 TMP Carbon tetrachloride	0.100	0.000	100.0#	0	-12.86#
37 TMP Benzene	0.100	0.131	-31.0#	100	0.00
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.07#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.100	0.099	1.0	97	0.00
41 TMP 1,4-Dioxane	0.100	0.108	-8.0	100	0.02
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.24#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.36#



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.56#
45 TMP Bromodichloromethane	0.100	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	0.100	0.107	-7.0	100	0.00
47 TMP cis-1,3-Dichloropropene	0.100	0.093	7.0	100	0.00
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.23#
49 TMP trans-1,3-Dichloropropene	0.100	0.092	8.0	100	0.00
50 TMP Toluene	0.100	0.103	-3.0	100	0.00
51 TMP 1,1,2-Trichloroethane	0.100	0.094	6.0	100	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	0.100	0.112	-12.0	100	0.00
54 TMP Dibromochloromethane	0.100	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.100	0.093	7.0	96	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	0.100	0.125	-25.0	100	0.00
58 TMP Ethylbenzene	0.100	0.092	8.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.100	0.091	9.0	100	-0.02
60 TMP Nonane	-1.000	0.000	0.0	0	-19.30#
61 TMP Isopropylbenzene	0.100	0.100	0.0	100	0.00
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	0.100	0.080	20.0	100	0.00
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.32#
65 TMP m,p-Xylene	0.200	0.179	10.5	100	0.00
66 TMP o-Xylene	0.100	0.090	10.0	100	0.00
67 TMP Styrene	0.100	0.084	16.0	100	0.00
68 TMP Bromoform	0.100	0.000	100.0#	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.009	9.9	100	0.00
70 TMP Benzyl chloride	0.100	0.058	42.0#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	0.100	0.088	12.0	97	-0.07
72 TMP 1,2,4-Trimethylbenzene	0.100	0.132	-32.0#	100	0.00
73 TMP 1,3-Dichlorobenzene	0.100	0.088	12.0	100	0.00
74 TMP 1,4-Dichlorobenzene	0.100	0.082	18.0	97	0.00
75 TMP 1,2-Dichlorobenzene	0.100	0.088	12.0	98	0.00
76 TMP 1,2,4-Trichlorobenzene	0.100	0.067	33.0#	100	0.02
77 TMP Naphthalene	0.100	0.092	8.0	104	0.02
78 TMP Hexachlorobutadiene	0.100	0.099	1.0	102	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	2.649	-70.2#	100	0.00
3 TMP Dichlorodifluoromethane	4.123	3.675	10.9	100	0.00
4 TMP Chloromethane	1.882	0.000#	100.0#	0#	-3.73#
5 TMP F-114	4.217	4.602	-9.1	100	-0.04
6 TMP Vinyl chloride	1.851	1.864	-0.7	100	-0.04
7 TMP 1,3-Butadiene	1.216	1.169	3.9	97	-0.12
8 TMP Butane	2.183	0.000	100.0#	0#	-4.32#
9 TMP Bromomethane	1.847	2.702	-46.3#	100	0.00
10 TMP Chloroethane	0.655	0.755	-15.3	104	0.00
11 TMP Ethyl bromide	1.609	1.604	0.3	96	-0.04
12 TMP Ethanol	0.663	0.000	100.0#	0#	-4.96#
13 TMP Acrolein	0.729	1.109	-52.1#	99	-0.06
14 TMP Pentane	2.461	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.781	0.000#	100.0#	0#	-5.84#
16 TMP Acetone	0.710	0.000#	100.0#	0#	-5.57#
17 TMP 2-Propanol	3.096	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.645	1.652	-0.4	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.585	0.8	100	-0.03
20 TMP Methylene chloride	1.479	0.000#	100.0#	0#	-6.80#
21 TMP t-Butyl alcohol (TBA)	2.668	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.056	0.000	100.0#	0#	-6.94#
23 TMP CFC-113	3.469	3.171	8.6	100	0.00
24 TMP Carbon disulfide	5.167	0.000	100.0#	0#	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	3.434	0.000#	100.0#	0#	-8.43#
26 TMP Vinyl acetate	3.801	0.000#	100.0#	0#	-8.54#
27 TMP 1,1-Dichloroethane	3.342	3.384	-1.3	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.700	-0.6	100	-0.02
29 TMP Hexane	2.068	0.000	100.0#	0#	-10.01#
30 TMP Chloroform	4.060	3.910	3.7	100	-0.02
31 TMP Ethyl acetate	3.789	0.000	100.0#	0#	-9.92#
32 TMP Tetrahydrofuran	1.809	1.946	-7.6	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.554	10.5	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.522	6.1	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.107	7.1	100	-0.01
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	9.924	-74.5#	100	0.00
38 TMP Cyclohexane	1.367	0.000	100.0#	0#	-13.07#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.539	0.4	97	0.00
41 TMP 1,4-Dioxane	0.230	0.249	-8.3	100	0.02
42 TMP 2,2,4-Trimethylpentane	1.598	0.000	100.0#	0#	-14.24#
43 TMP Methyl methacrylate	0.485	0.000	100.0#	0#	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.000	100.0#	0#	-14.56#
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.633	-6.7	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.554	7.5	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.000	100.0#	0#	-15.23#
49 TMP trans-1,3-Dichloropropene	0.563	0.519	7.8	100	0.00
50 TMP Toluene	0.707	0.731	-3.4	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.520	5.5	100	0.00
52 TMP 2-Hexanone	0.846	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.490	0.551	-12.4	100	0.00
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.770	6.6	96	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.379	-25.2	100	0.00
58 TMP Ethylbenzene	1.968	1.778	9.7	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.282	8.0	100	-0.02
60 TMP Nonane	0.981	0.000	100.0#	0#	-19.30#
61 TMP Isopropylbenzene	1.792	1.788	0.2	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.292	2.636	19.9	100	0.00
64 TMP 4-Ethyltoluene	1.611	0.000	100.0#	0#	-20.32#
65 TMP m,p-Xylene	0.633	0.568	10.3	100	0.00
66 TMP o-Xylene	0.615	0.554	9.9	100	0.00
67 TMP Styrene	0.819	0.690	15.8	100	0.00
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.624	10.0	100	0.00
70 TMP Benzyl chloride	0.987	0.647	34.4#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.271	12.3	97	-0.07
72 TMP 1,2,4-Trimethylbenzene	1.247	0.899	27.9	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	0.890	12.1	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.775	18.2	97	0.00
75 TMP 1,2-Dichlorobenzene	1.024	0.900	12.1	98	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.380	39.3#	100	0.02
77 TMP Naphthalene	1.132	0.810	28.4	104	0.02
78 TMP Hexachlorobutadiene	1.045	1.039	0.6	102	0.00

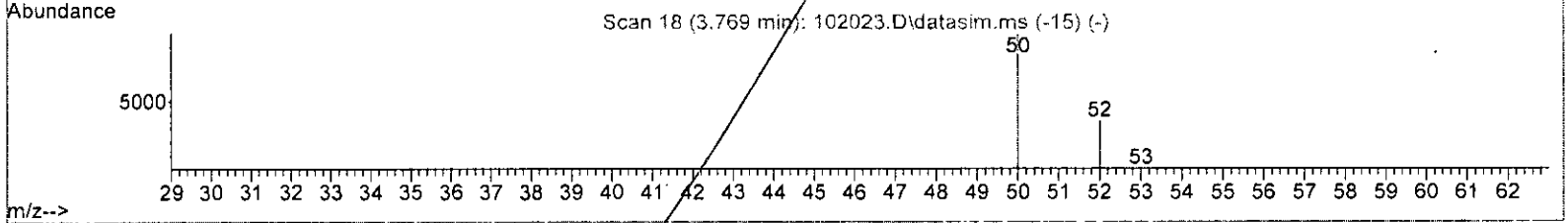
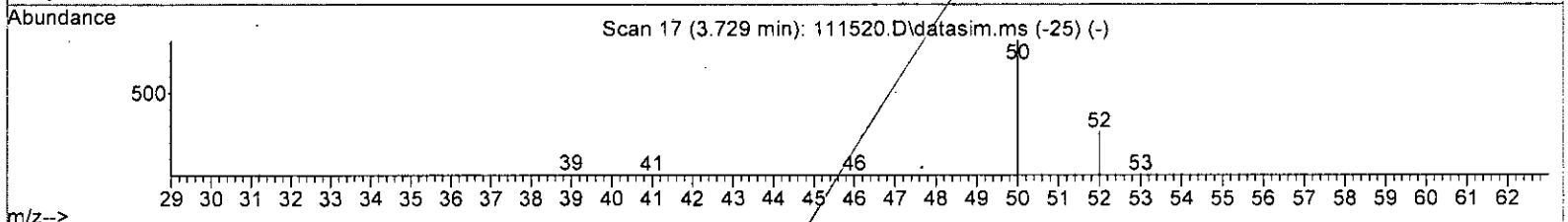
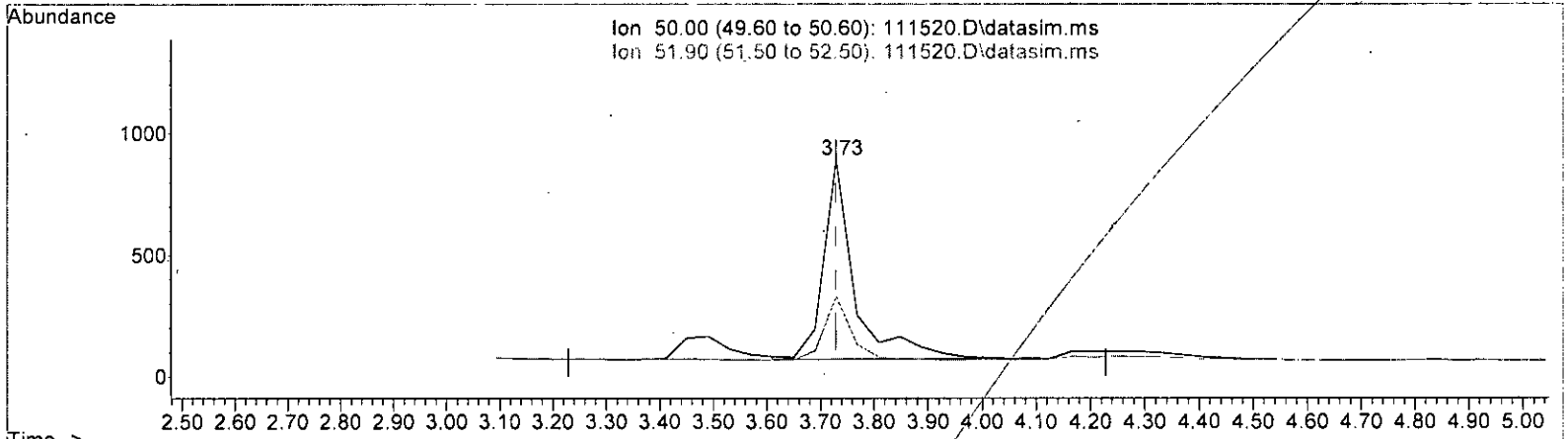
(#) = Out of Range

SPCC's out = 11 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

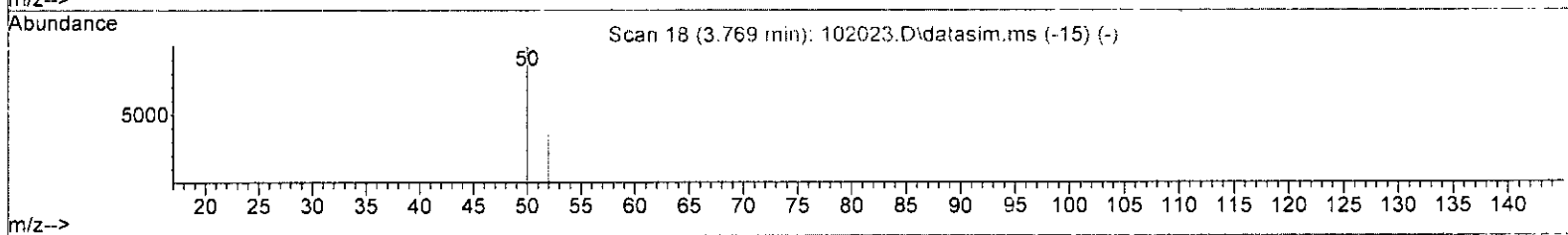
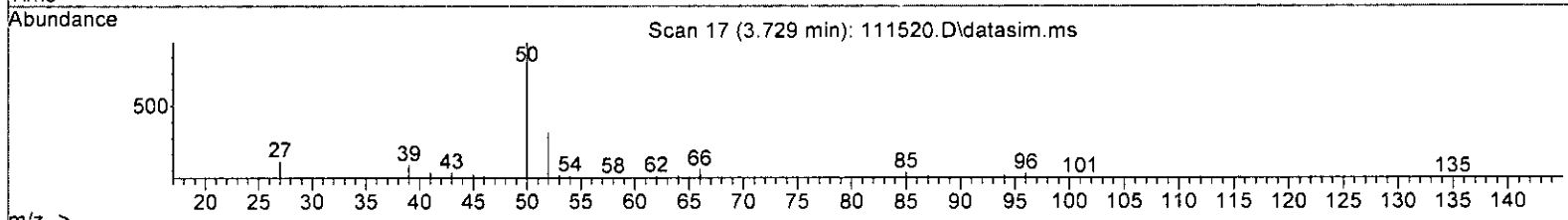
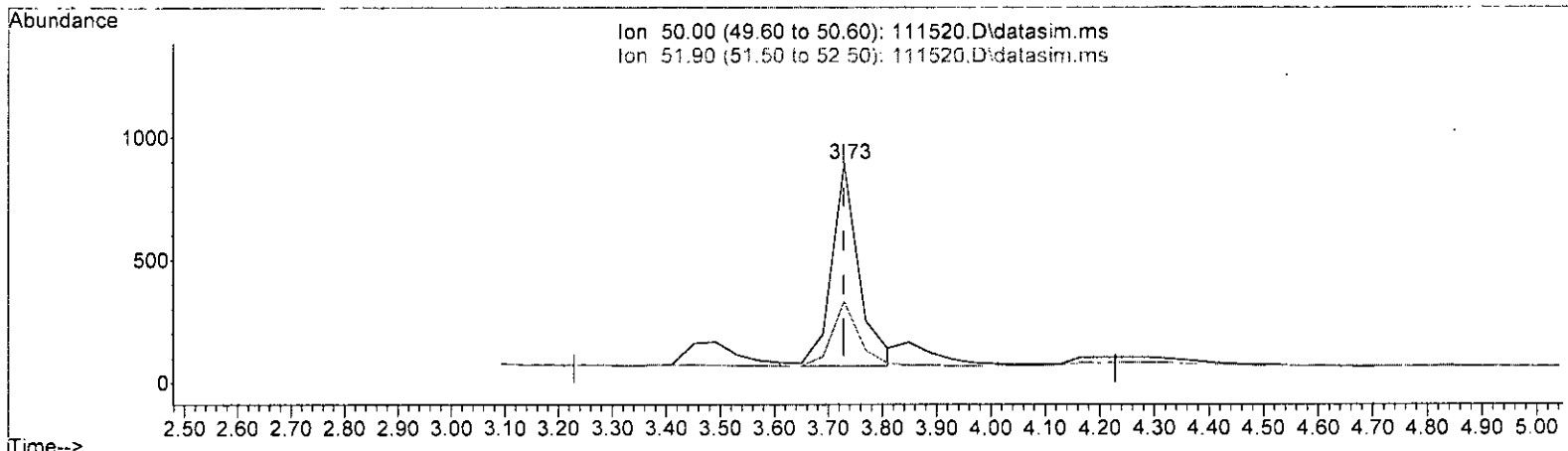
(4) Chloromethane (TMP)			
3.729min (+ 0.000)	0.276 ppbv		
response	3282		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	32.11	
0.00	0.00	0.00	
0.00	0.00	0.00	

*b*  
*11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

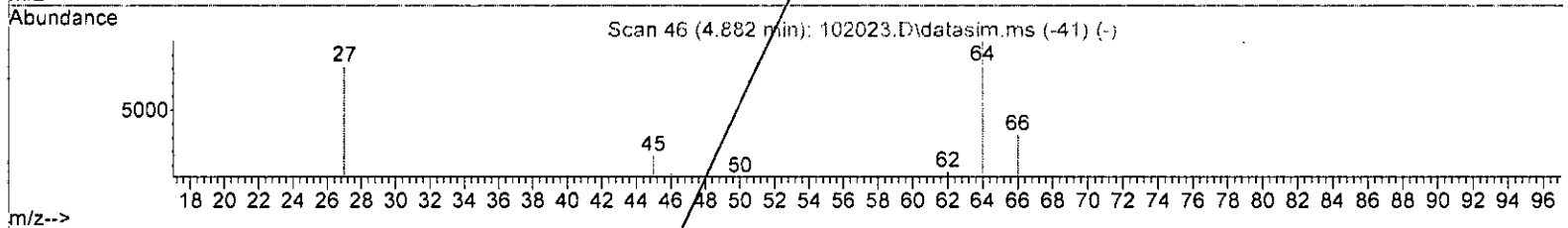
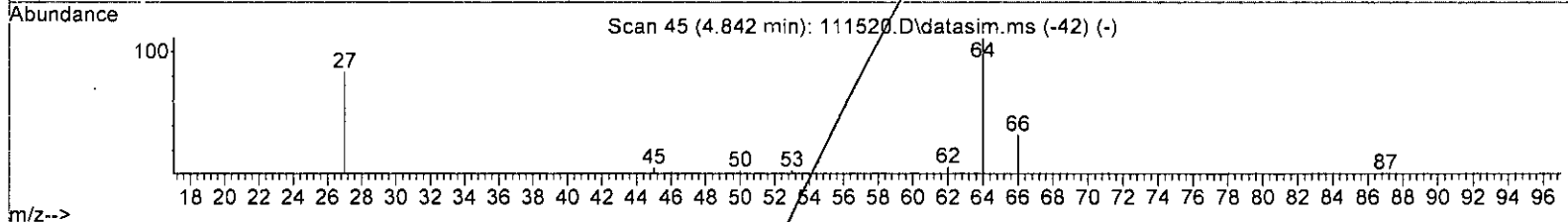
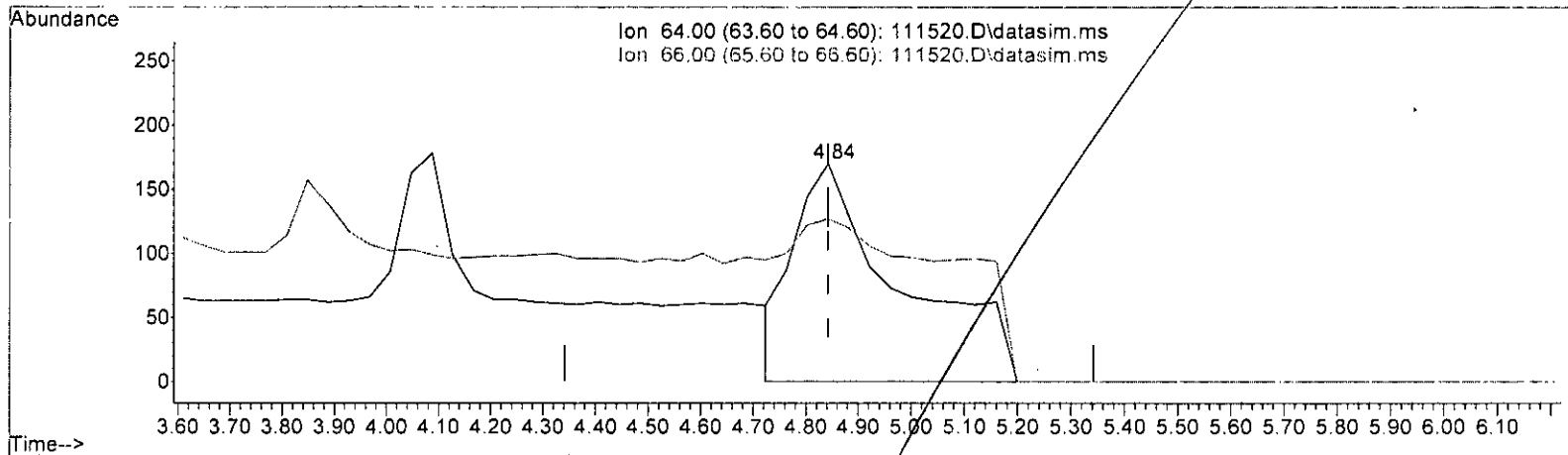
(4) Chloromethane (TMP)			
3.729min (+ 0.000)	0.245 ppbv m		
response	2918		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	37.07	
0.00	0.00	0.00	
0.00	0.00	0.00	

*W/Check*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-1968  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(10) Chloroethane (TMP)  
 4.842min (-0.000) 0.557 ppbv

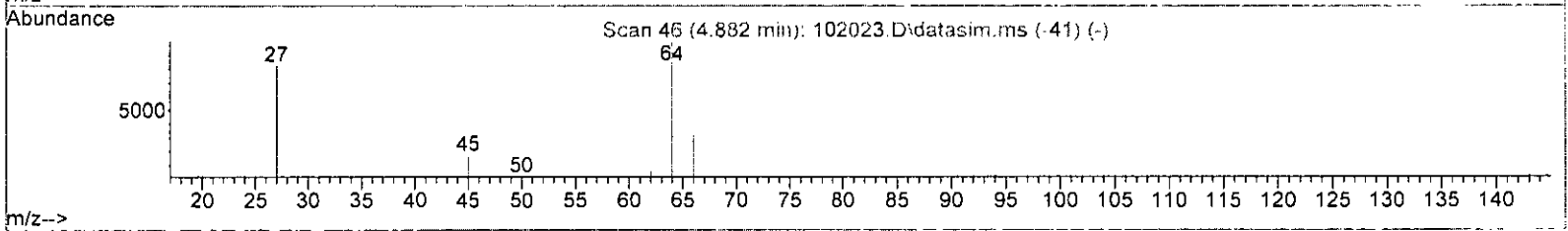
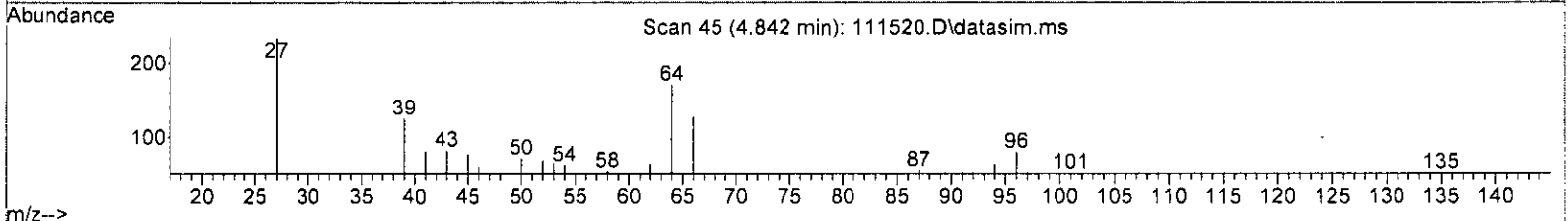
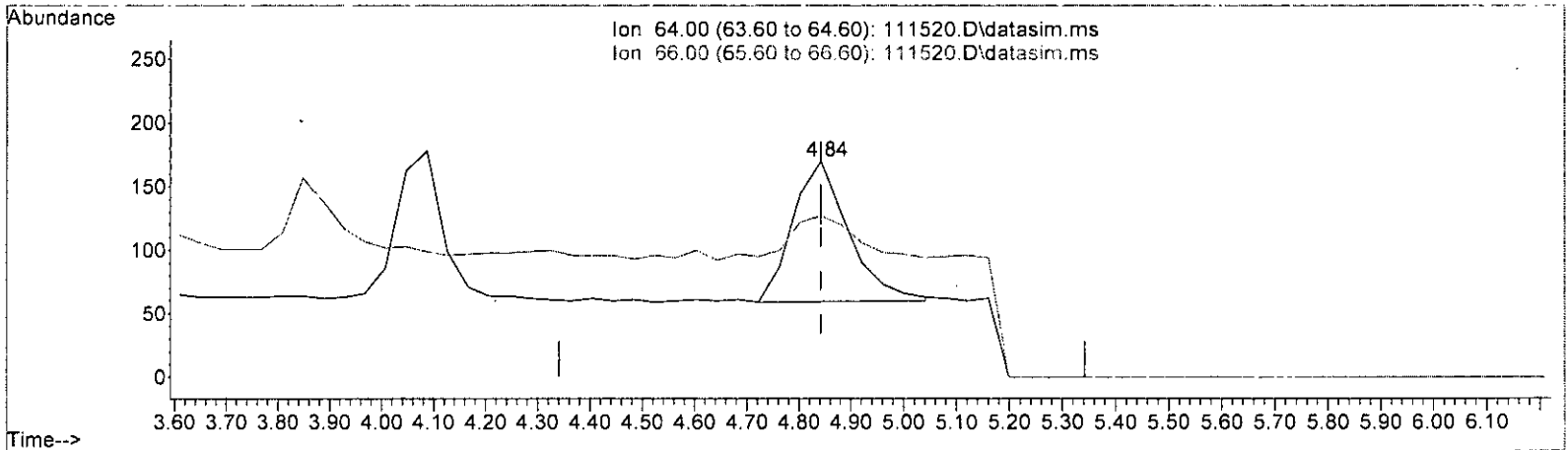
response	2305
Ion	Exp% Act%
64.00	100.00 100.00
66.00	31.80 74.71#
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(10) Chloroethane (TMP)  
 4.842min (-0.000) 0.199 ppbv m  
 response 825

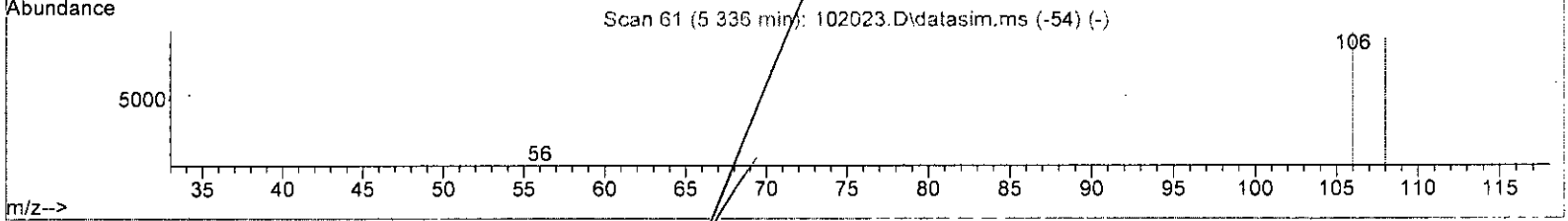
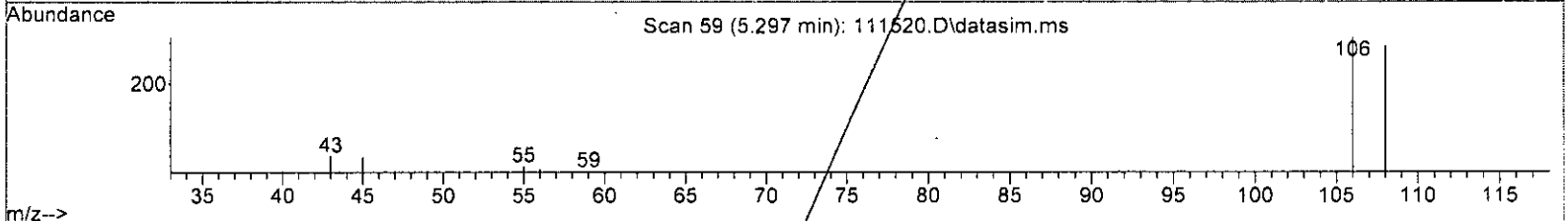
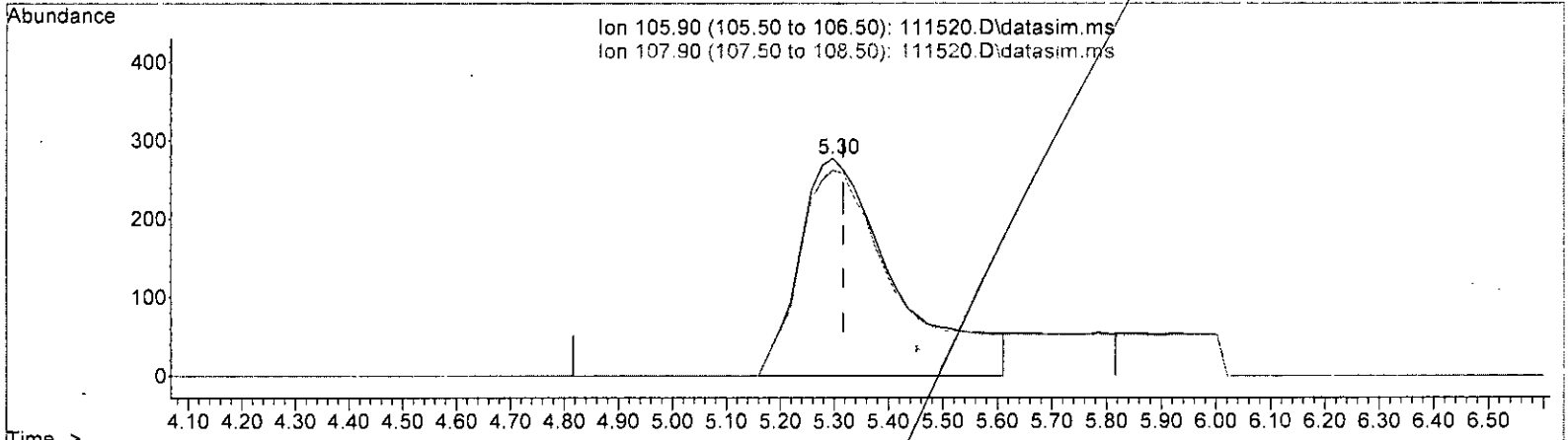
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	74.71#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(11) Vinyl bromide (TMP)		
5.297min (-0.020) 0.359 ppbv		
response	3654	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	100.33
0.00	0.00	0.00
0.00	0.00	0.00

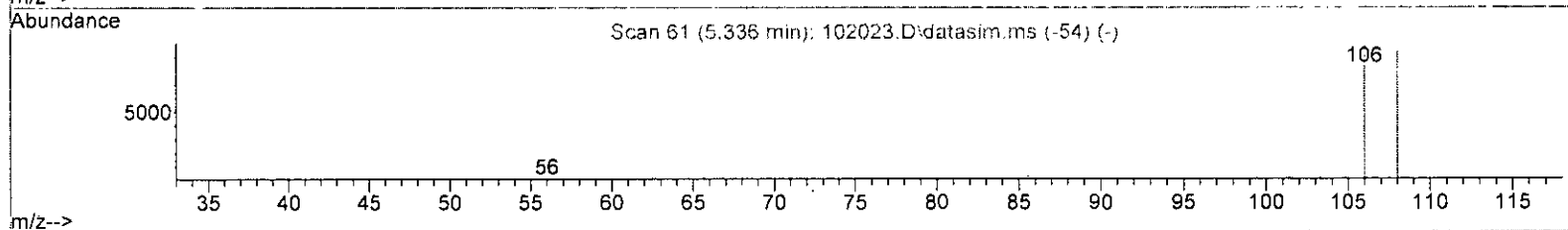
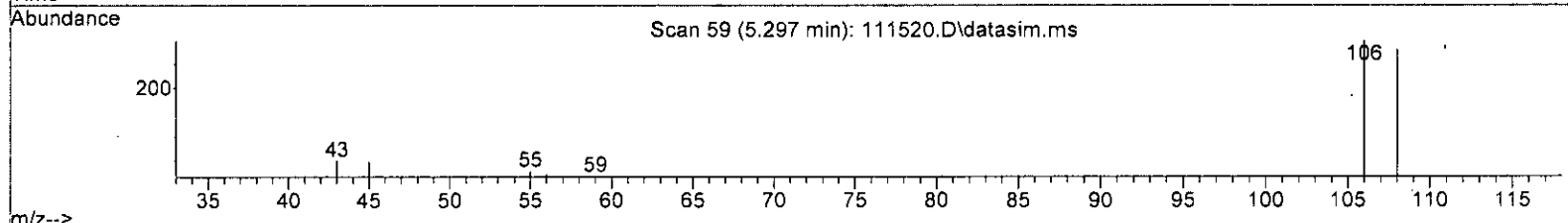
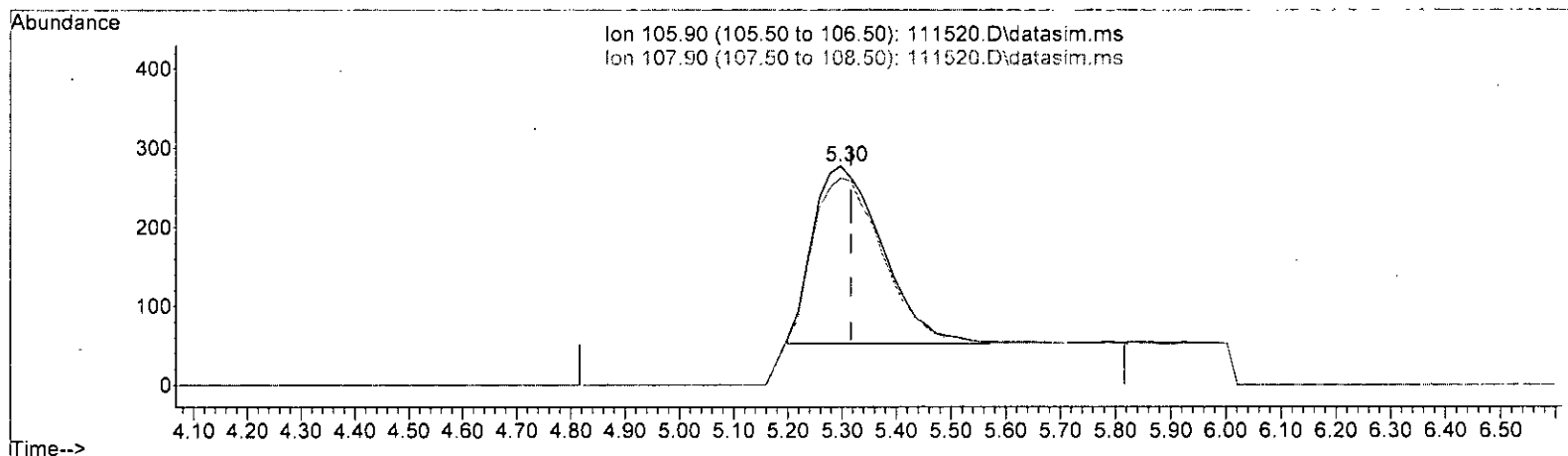
5/11/22



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



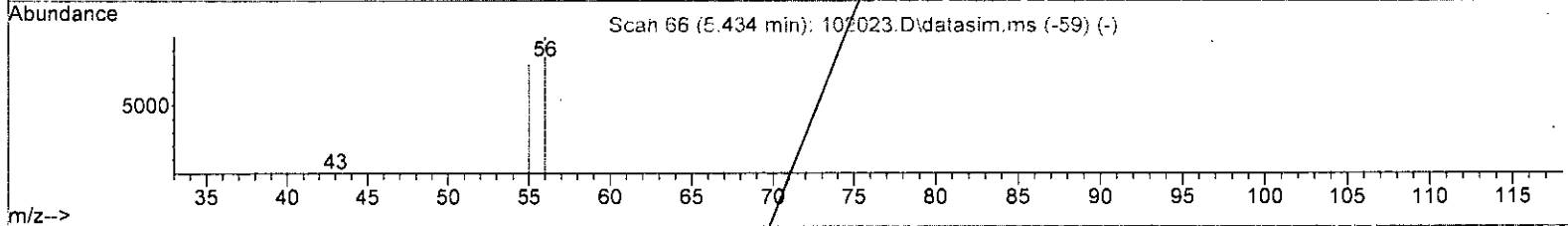
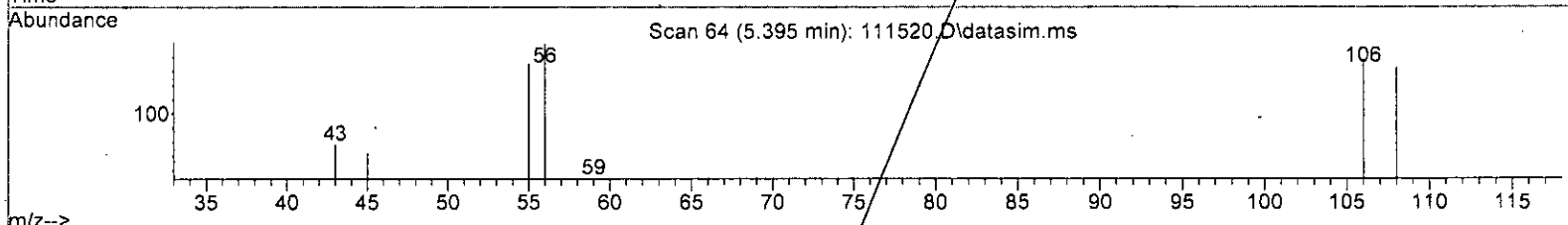
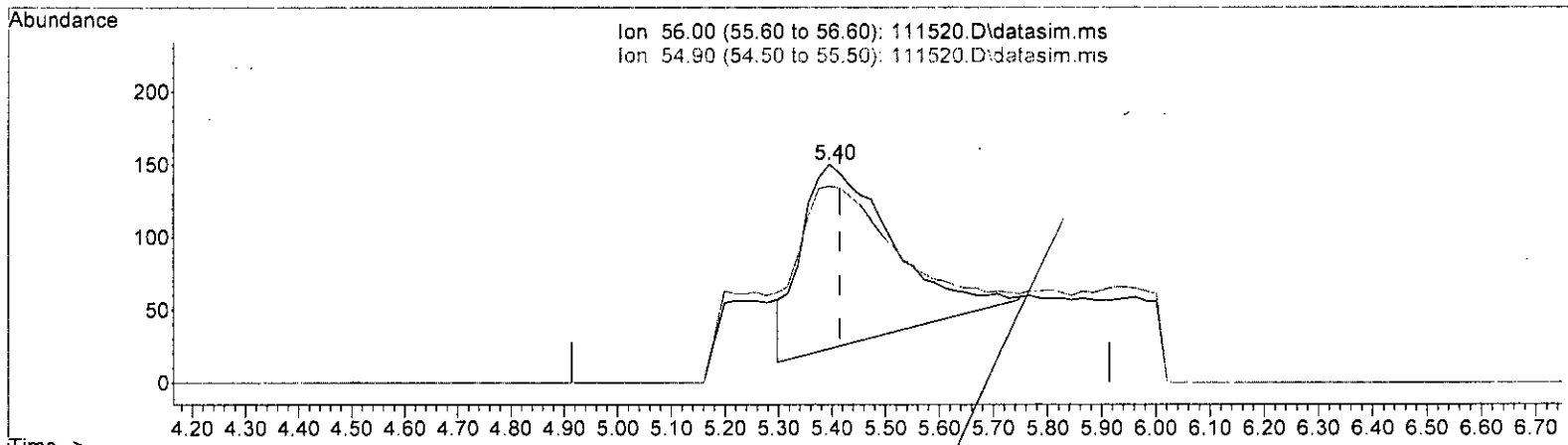
TIC: 111520.D\data.ms

(11) Vinyl bromide (TMP)		
5.297min (-0.020) 0.196 ppbv m		
response	1998	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	183.48#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

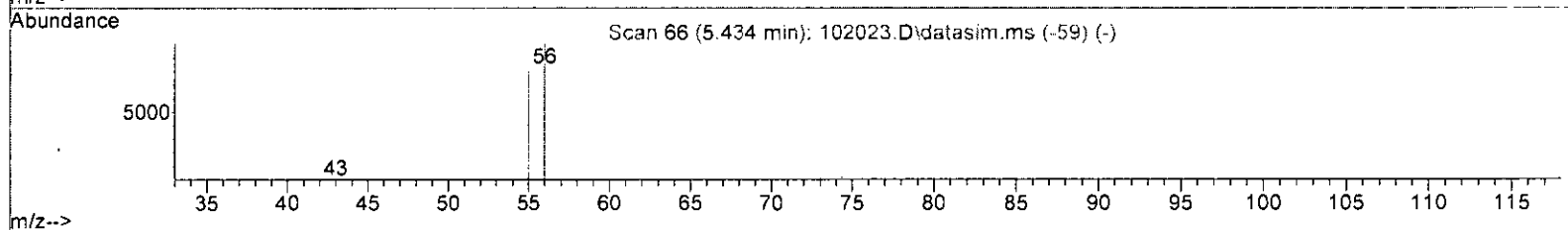
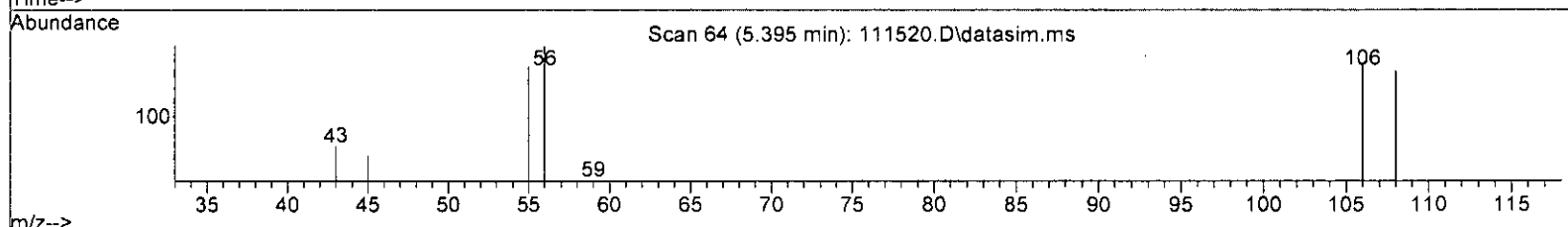
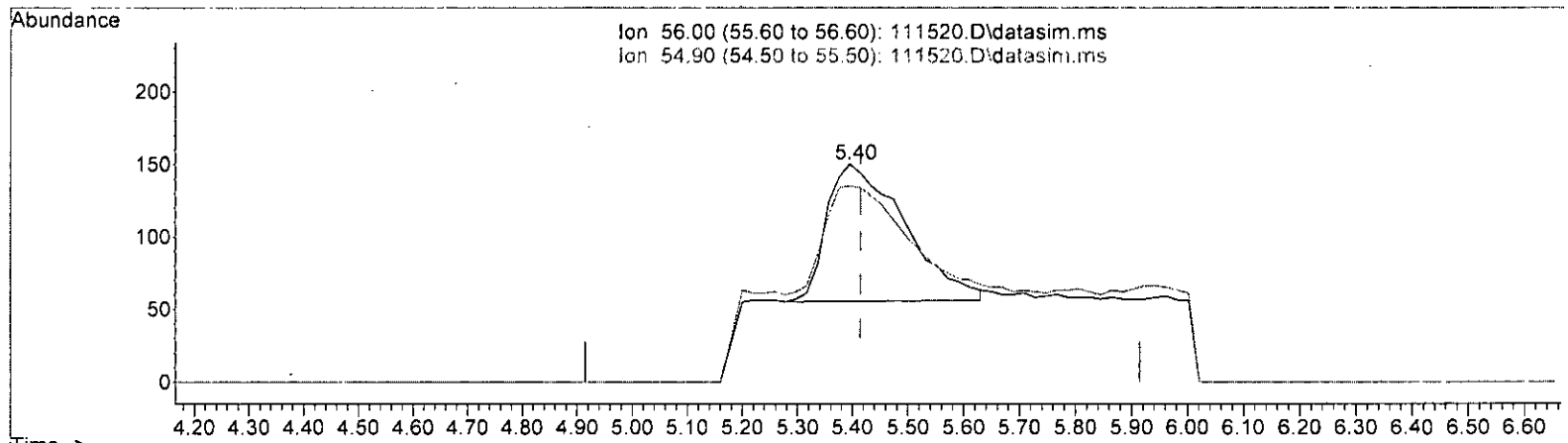
(13) Acrolein (TMP)			
5.395min	(-0.020)	0.324	ppbv
response	1496		
Ion	Exp%	Act%	
56.00	100.00	100.00	
54.90	81.00	93.65	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(13) Acrolein (TMP)

5.395min (-0.020) 0.201 ppbv m

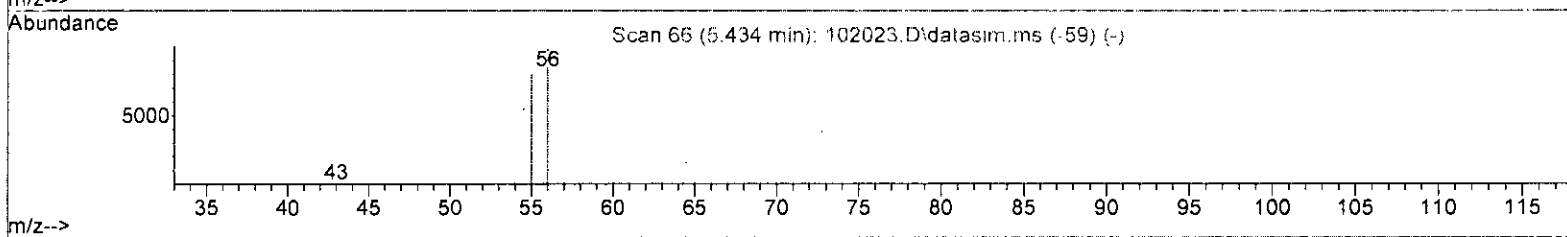
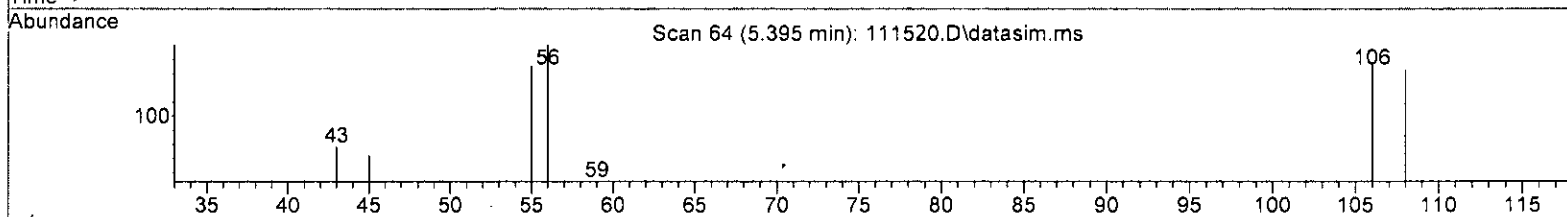
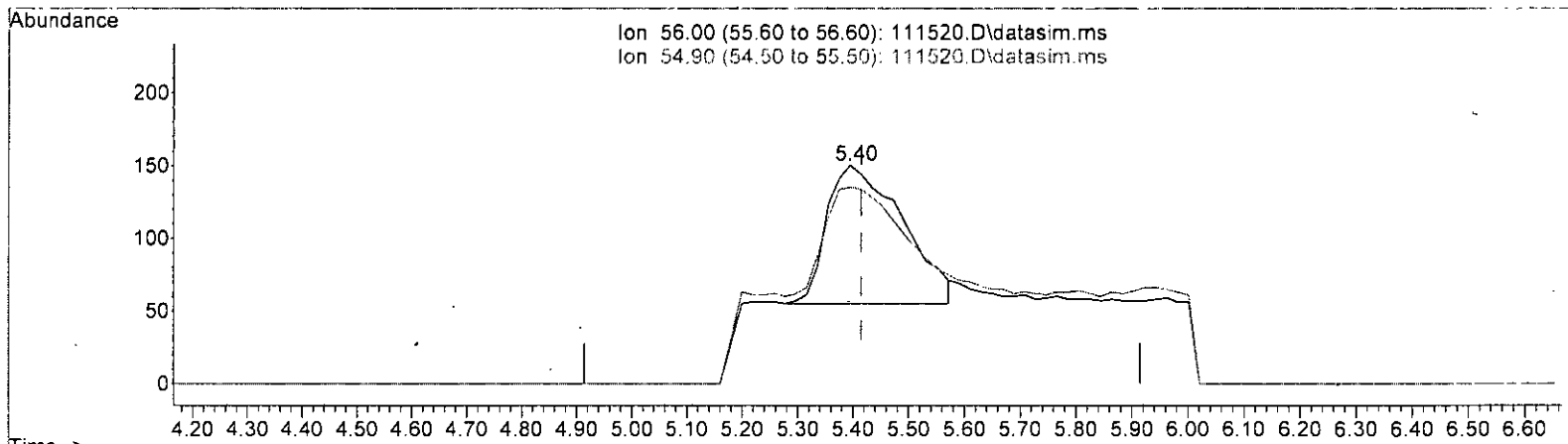
response	926	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	151.30#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

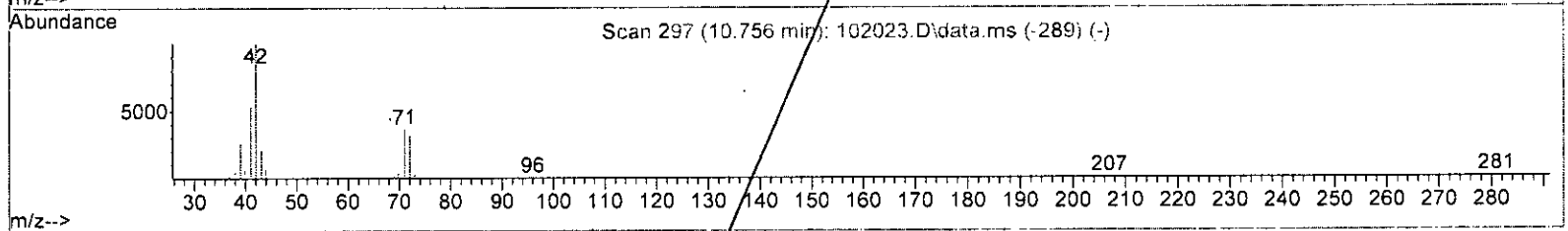
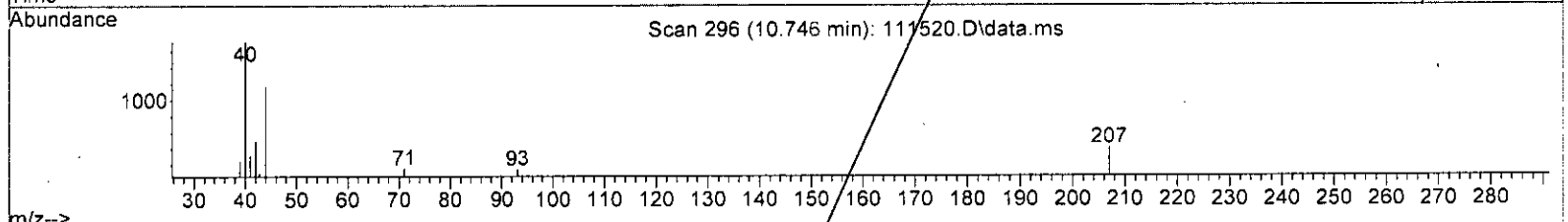
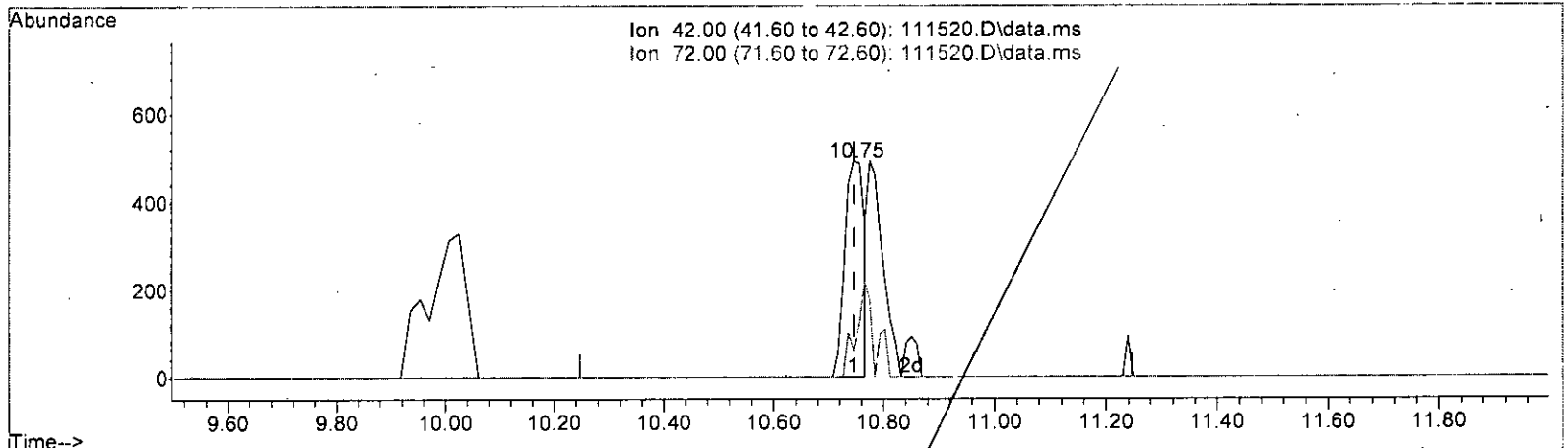
(13) Acrolein (TMP)		
5.395min (-0.020) 0.195 ppbv m		
response	899	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	155.84#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(32) Tetrahydrofuran (TMP)

10.746min (-0.001) 0.102 ppbv

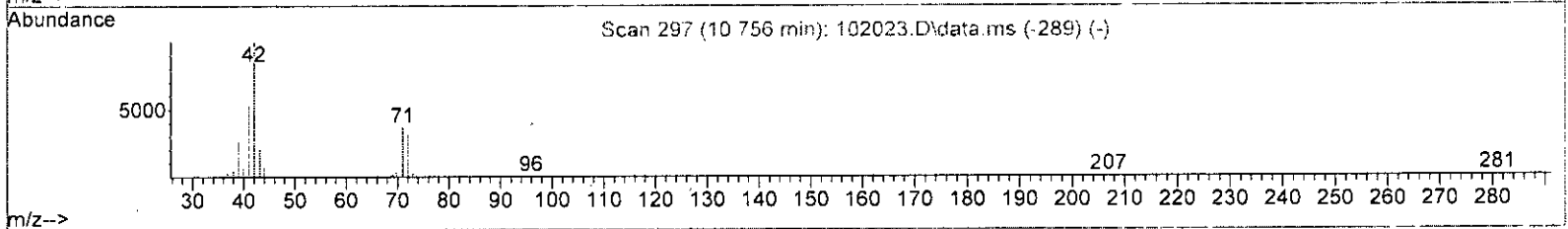
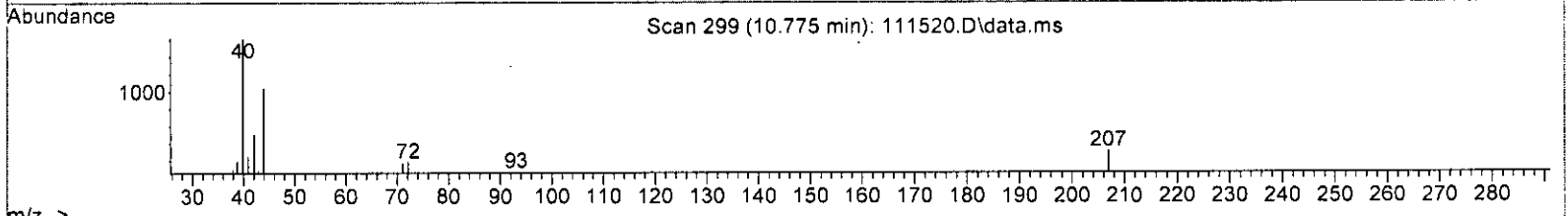
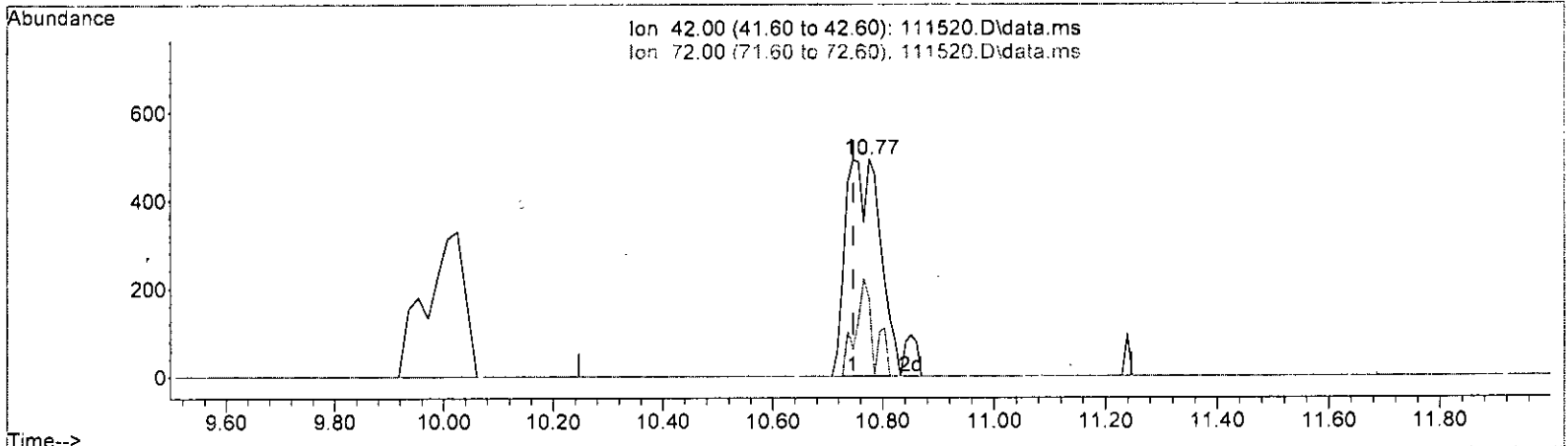
response	1164	
Ion	Exp%	Act%
42.00	100.00	100.00
72.00	33.70	33.51
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(32) Tetrahydrofuran (TMP)

10.775min (+ 0.028) 0.198 ppbv m

response 2272

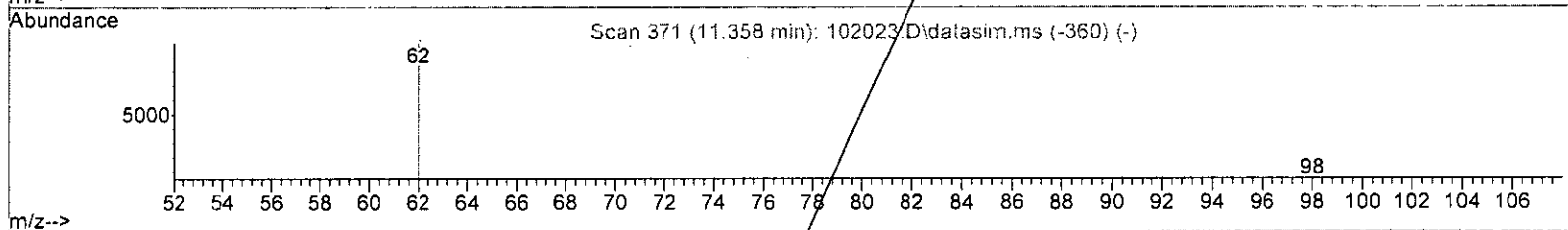
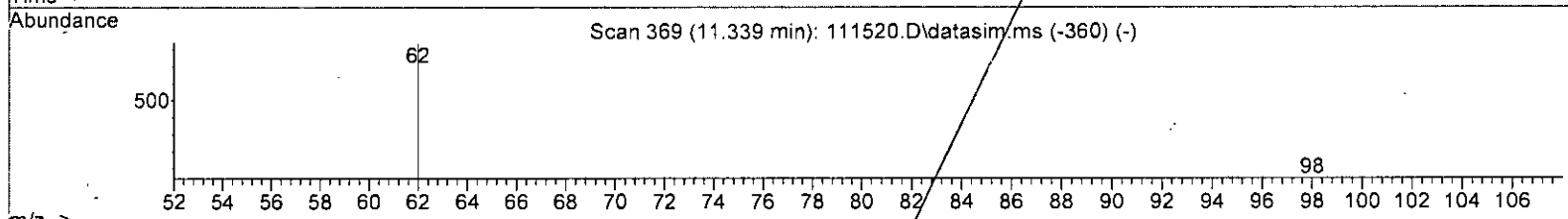
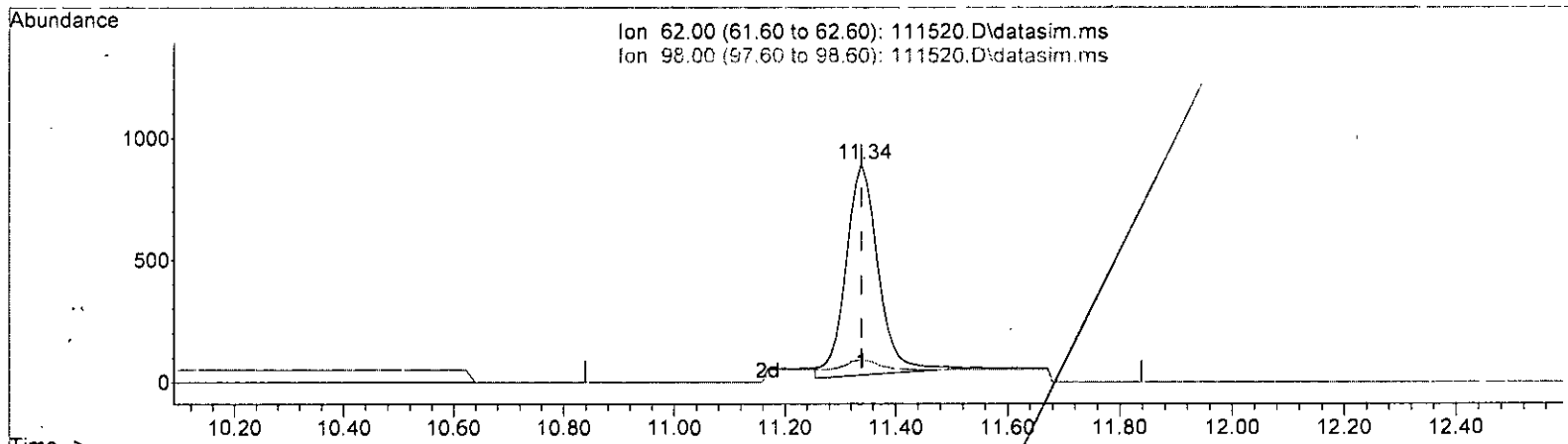
Ion	Exp%	Act%
42.00	100.00	100.00
72.00	33.70	17.17
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.339min (+ 0.000) 0.211 ppbv

response 3514

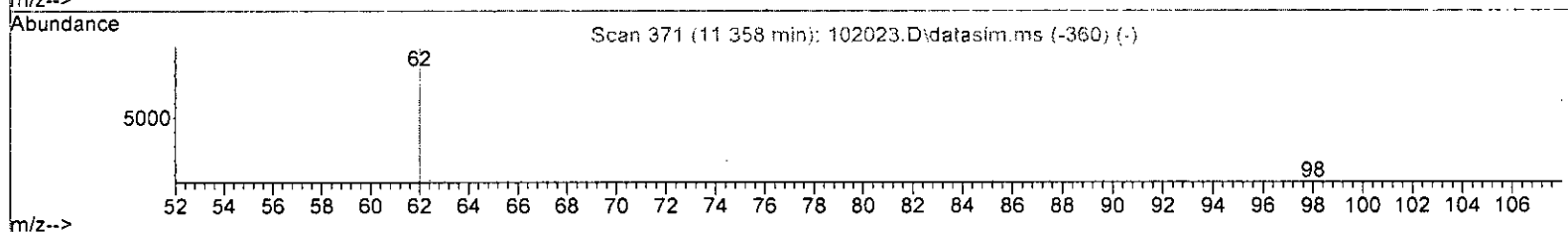
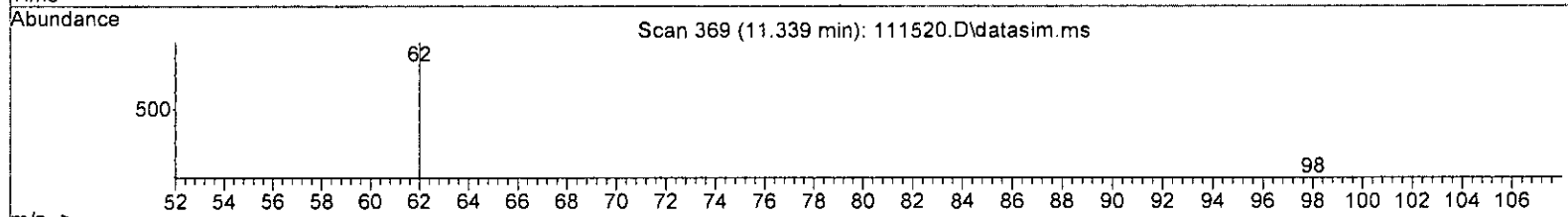
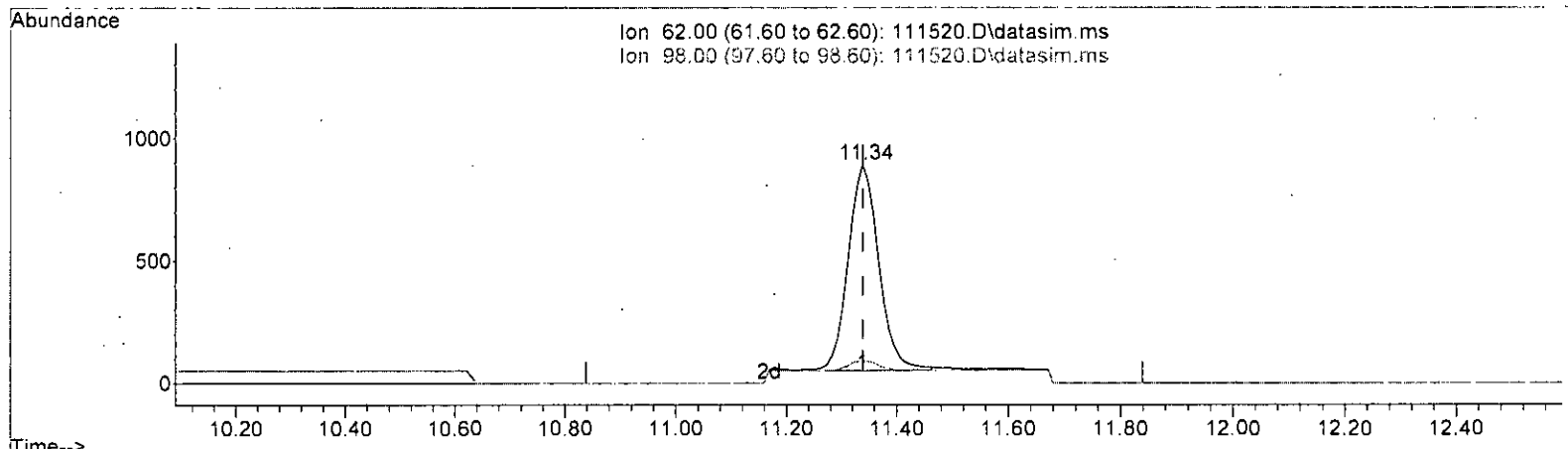
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	4.79
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111520.D\data.ms

(34)	1,2-Dichloroethane (EDC) (TMP)	
11.339min (+ 0.000)	0.193 ppbv m	
response	3226	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	10.29
0.00	0.00	0.00
0.00	0.00	0.00

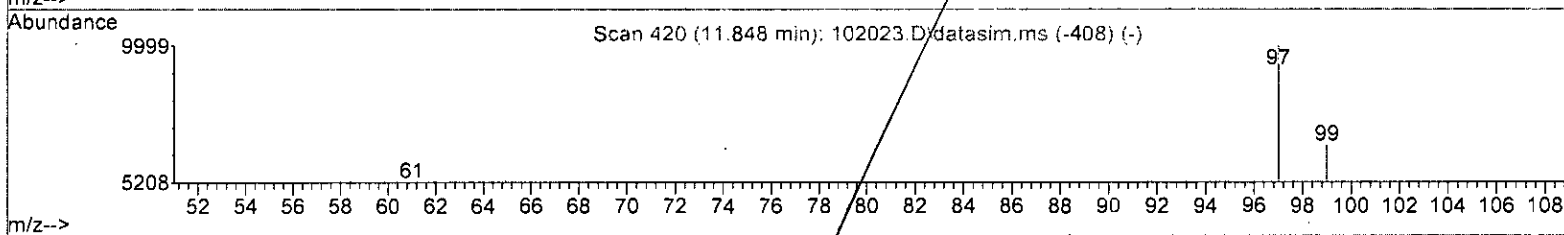
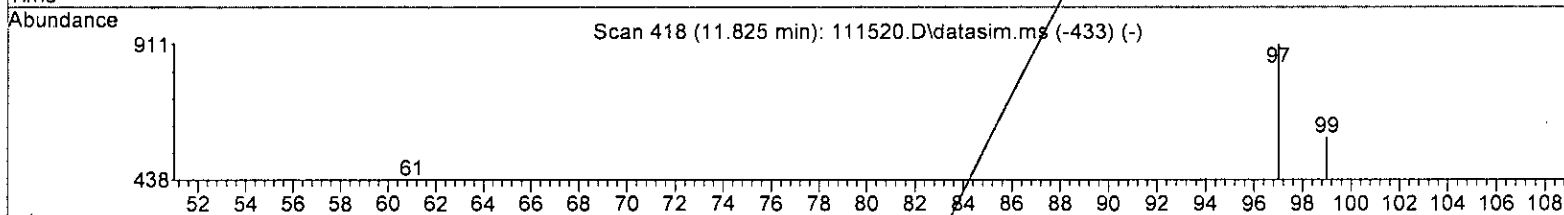
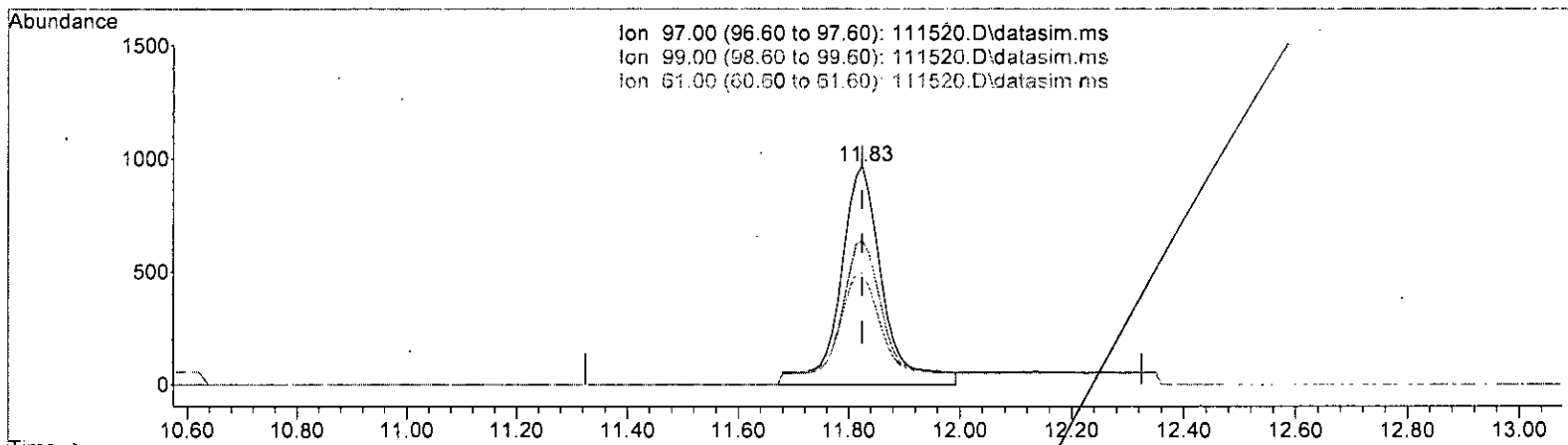
W/MS



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

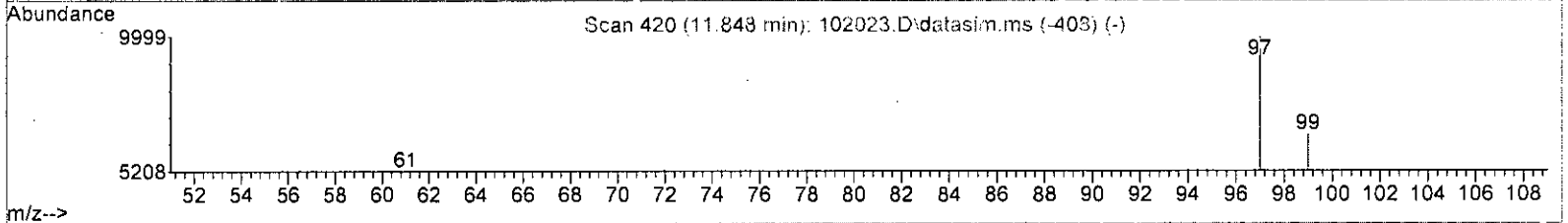
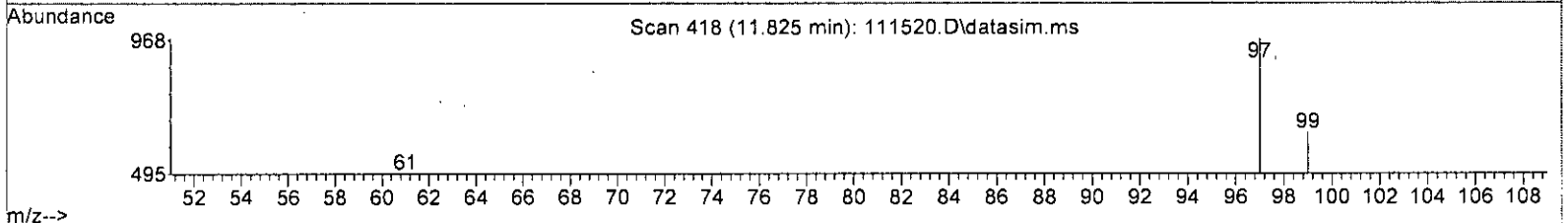
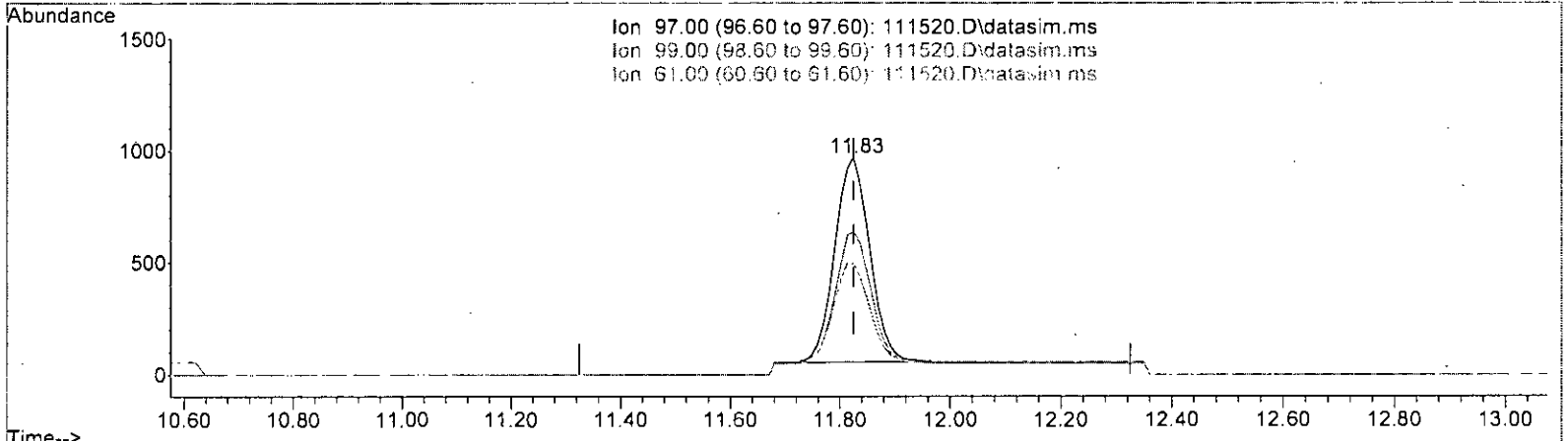
(35) 1,1,1-Trichloroethane (TMP)			
11.825min (+ 0.000) 0.240 ppbv			
response	5068		
Ion	Exp%	Act%	
97.00	100.00	100.00	
99.00	61.70	65.74	
61.00	49.30	51.08	
0.00	0.00	0.00	

W/MS

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 0.189 ppbv m

response 4009

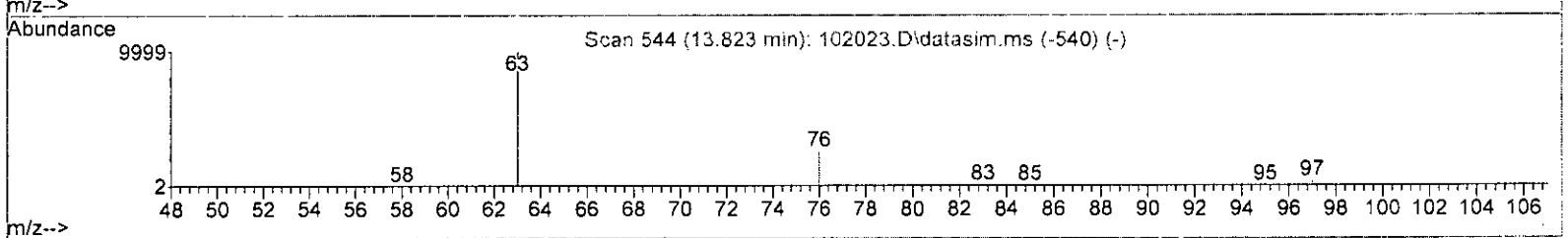
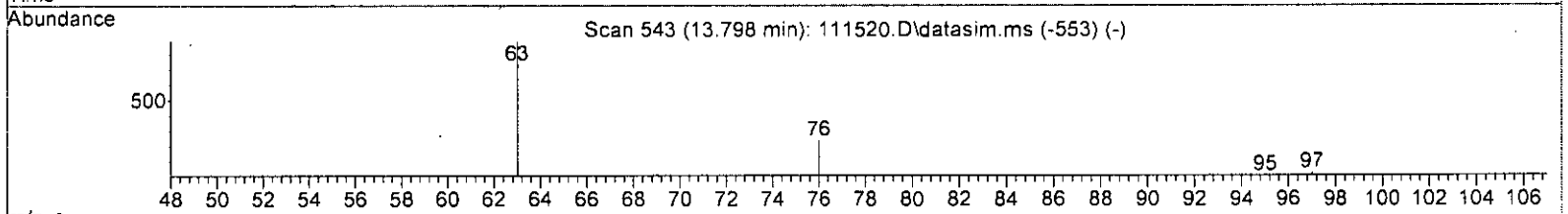
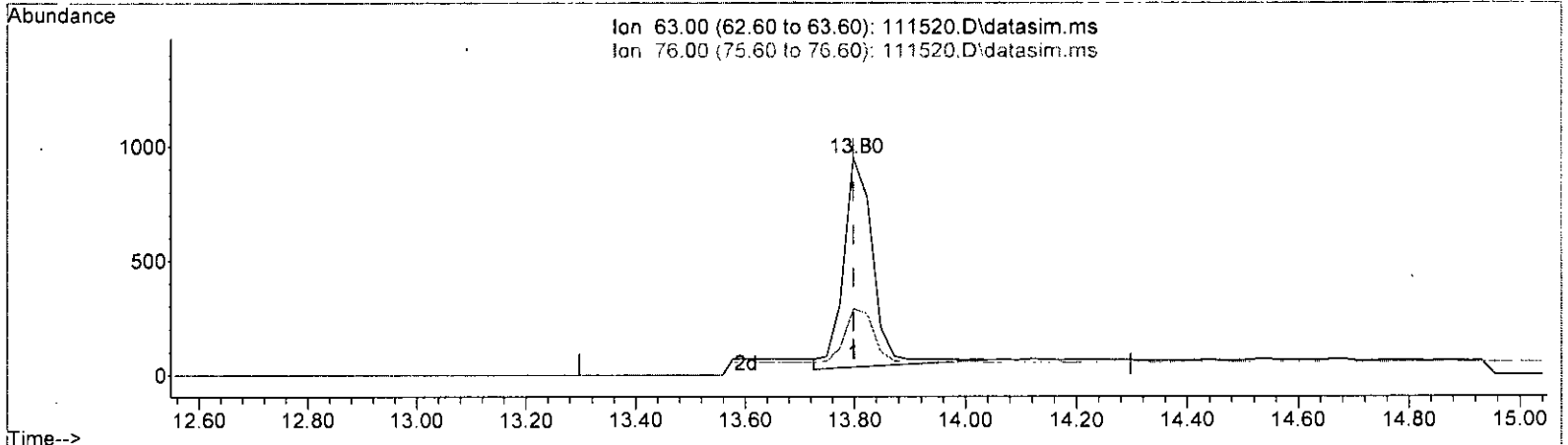
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	65.74
61.00	49.30	51.08
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

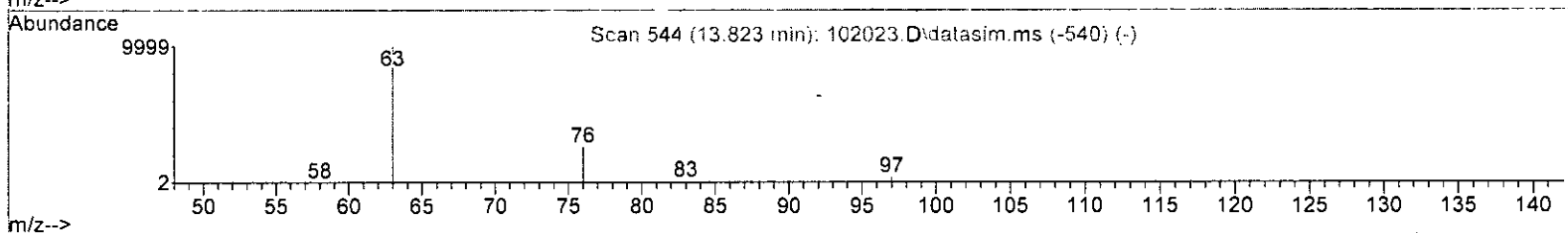
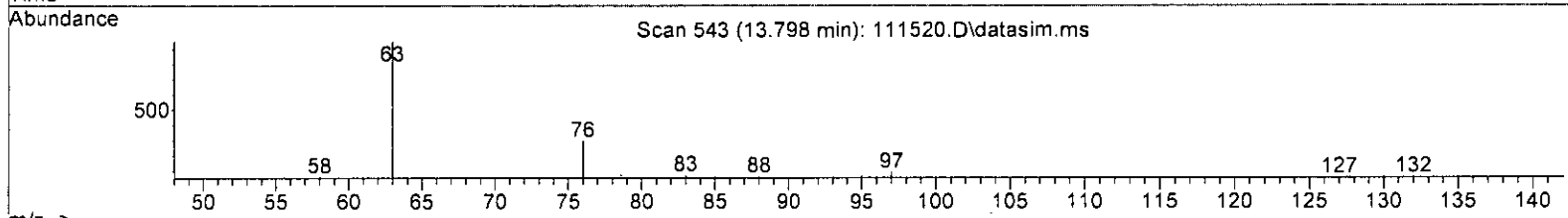
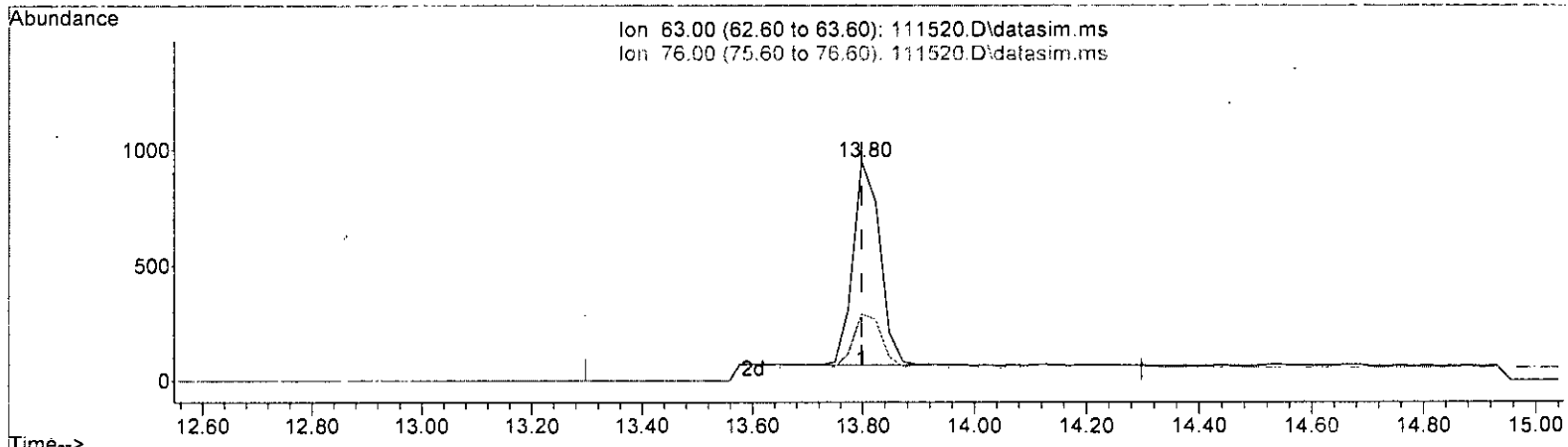
(40) 1,2-Dichloropropane (TMP)		
13.798min (+ 0.000) 0.222 ppbv		
response	3383	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	26.58
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(40) 1,2-Dichloropropane (TMP)  
 13.798min (+ 0.000) 0.194 ppbv m

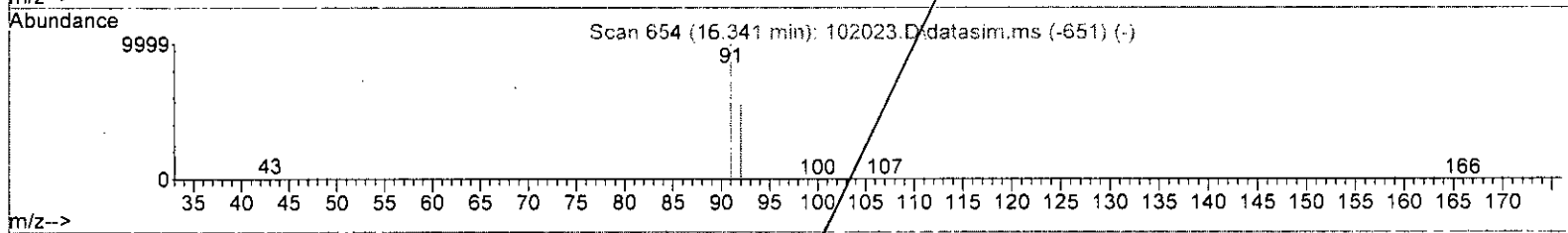
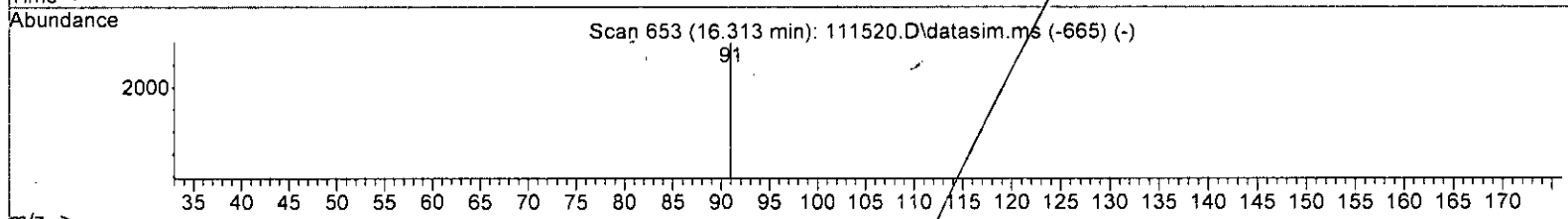
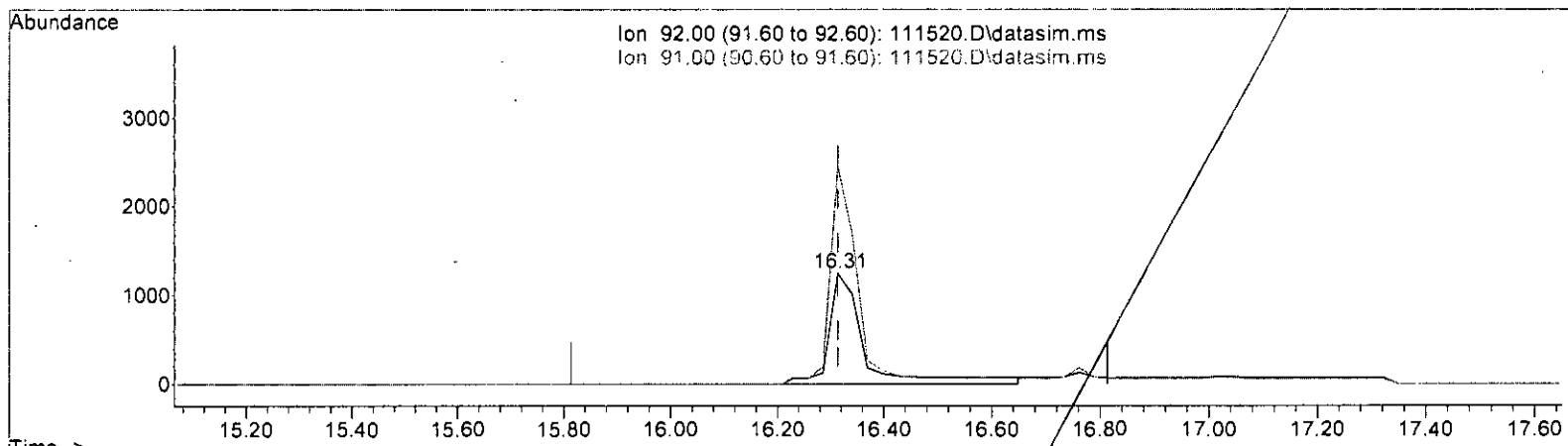
response	2962	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	30.56
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

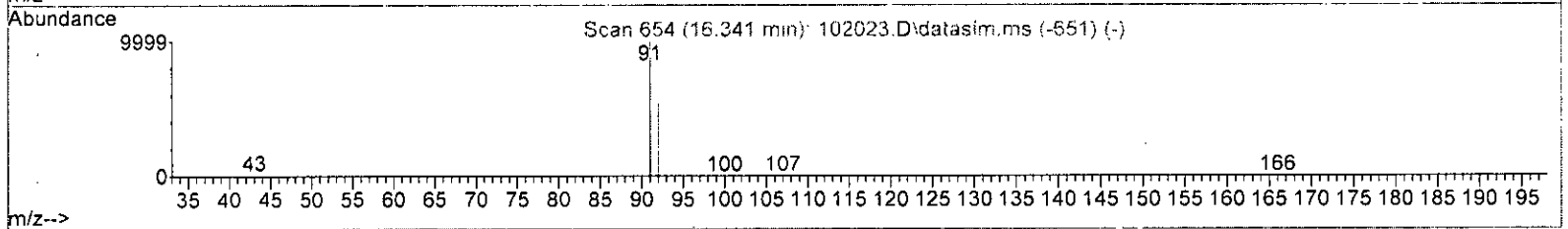
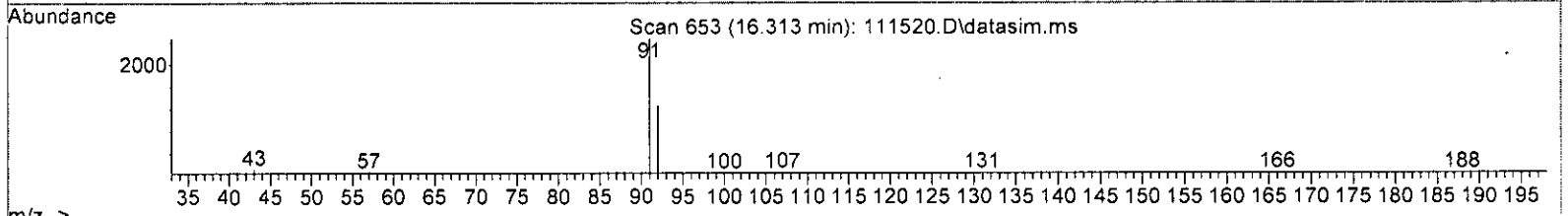
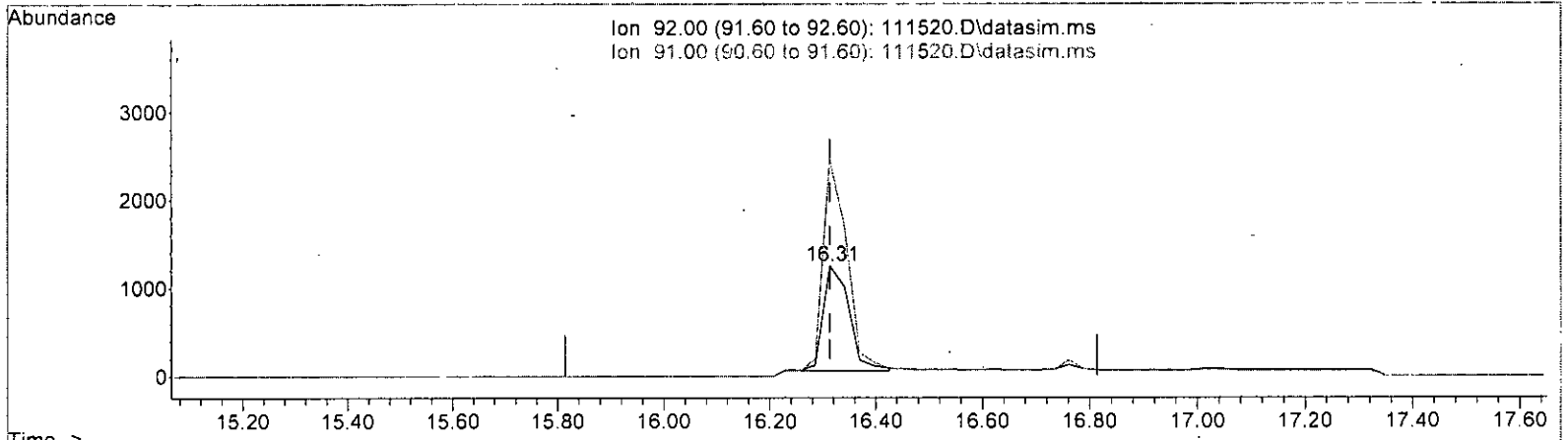
(50) Toluene (TMP)			
16.313min	(-0.001)	0.287	ppbv
response	5731		
Ion	Exp%	Act%	
92.00	100.00	100.00	
91.00	204.60	196.88	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(50) Toluene (TMP)

16.313min (-0.001) 0.204 ppbv m

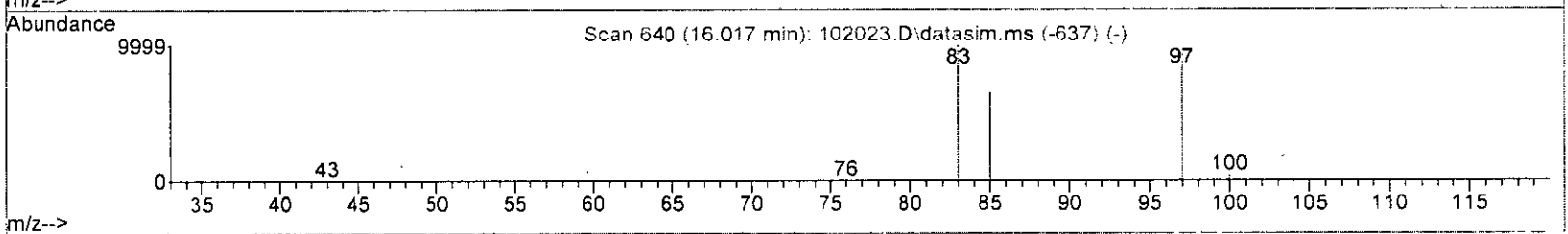
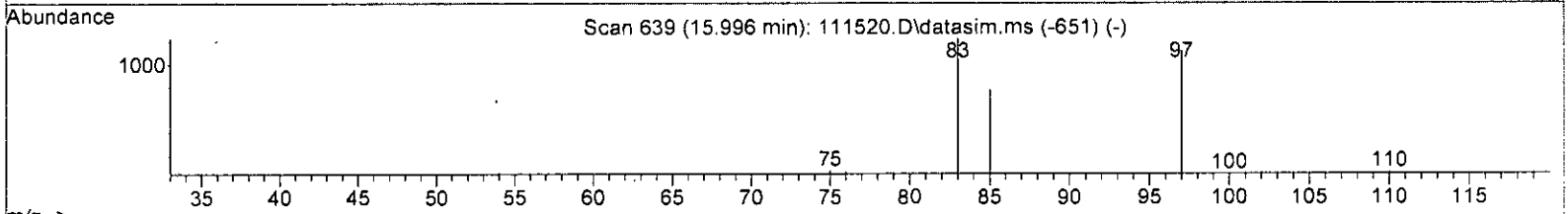
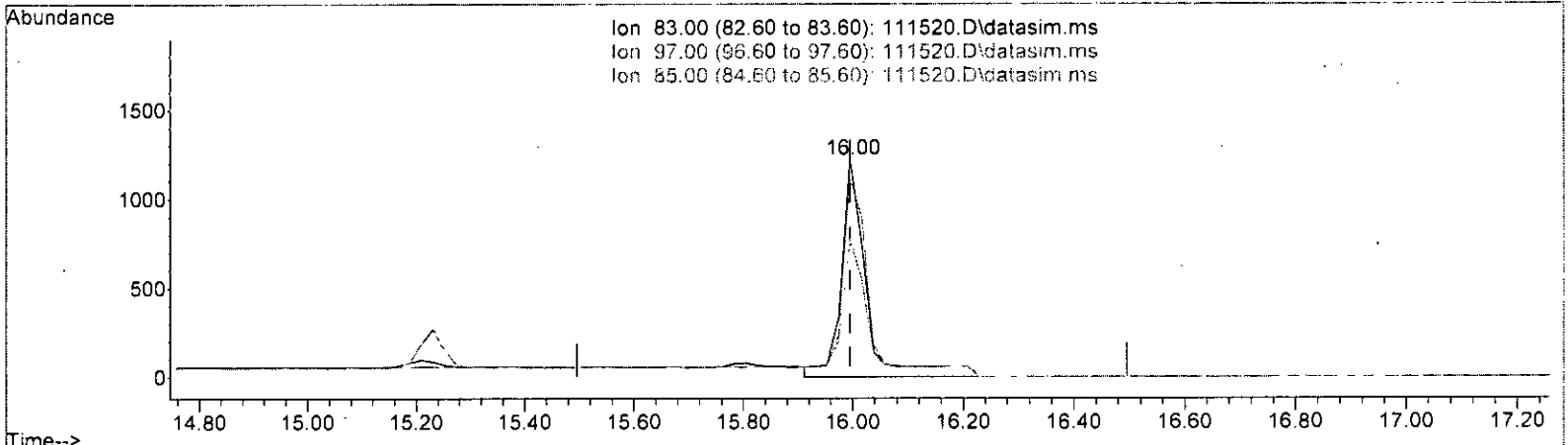
response	4061	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	196.88
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

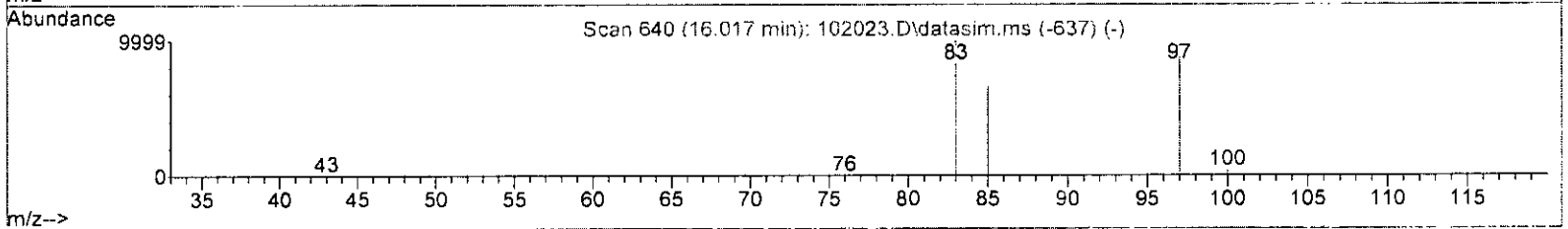
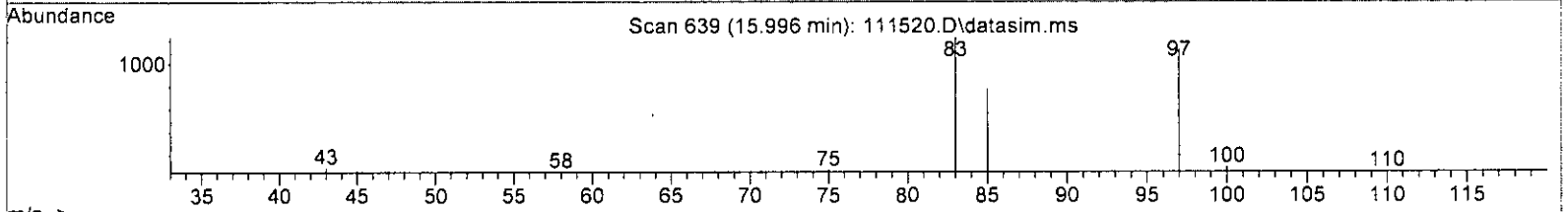
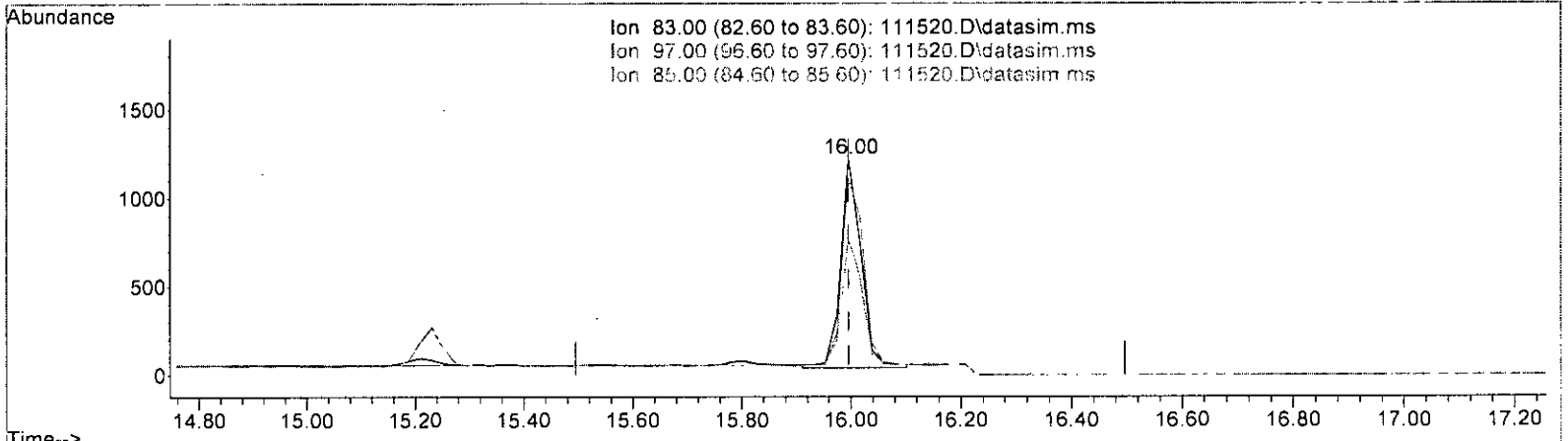
(51) 1,1,2-Trichloroethane (TMP)		
15.996min (-0.000)	0.261 ppbv	
response	3946	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	90.92
85.00	60.50	63.18
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)  
 15.996min (-0.000) 0.200 ppbv m

response	3041	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	90.92
85.00	60.50	63.18
0.00	0.00	0.00

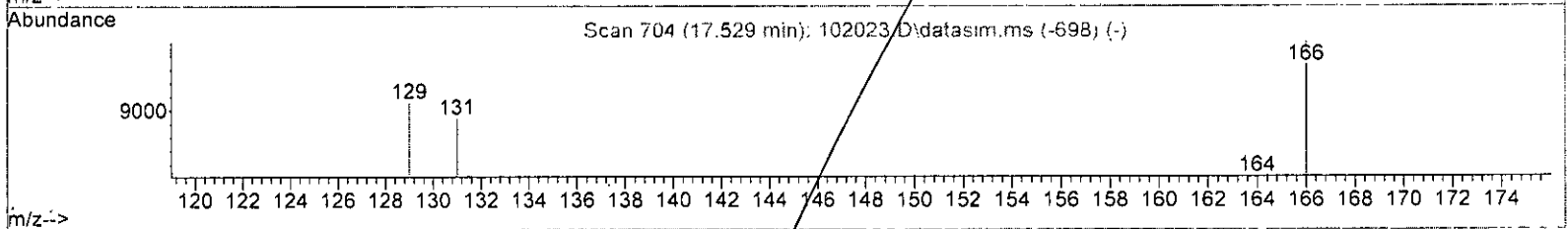
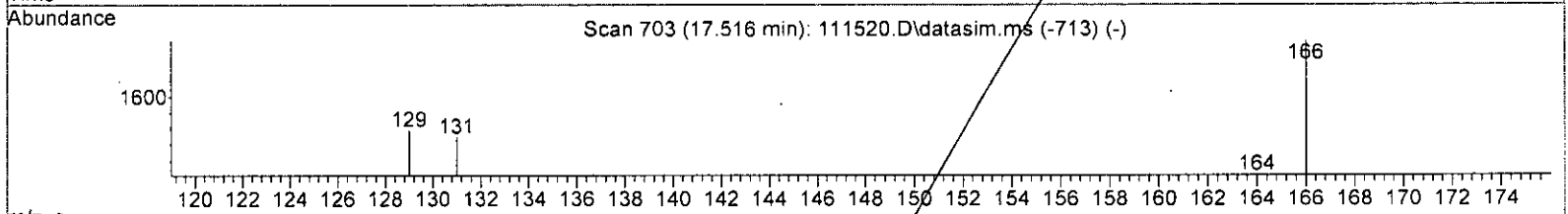
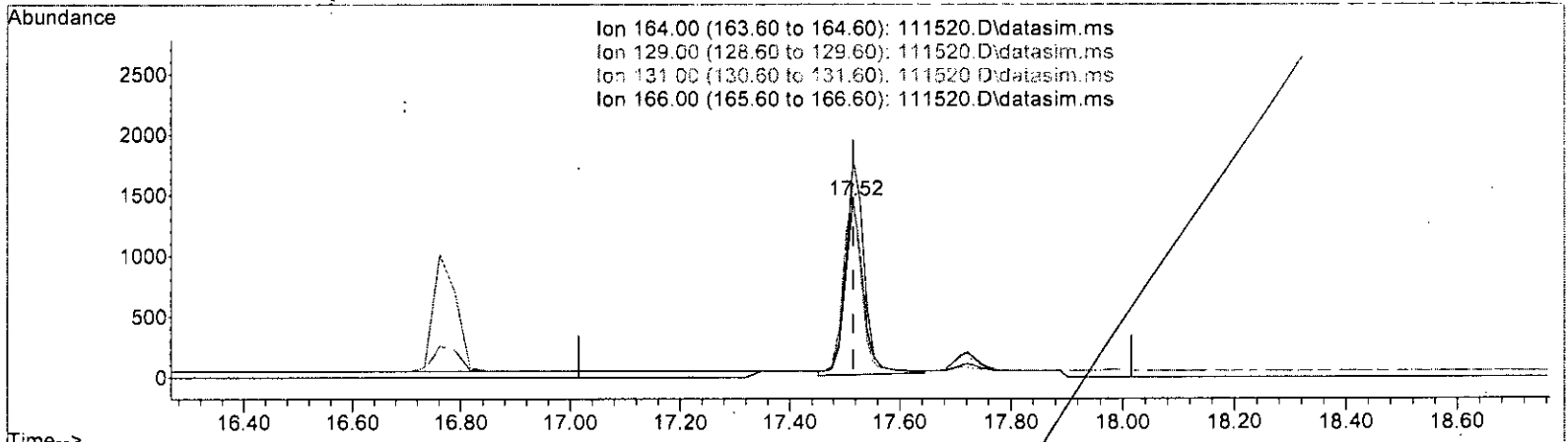
*Handwritten signature*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(53) Tetrachloroethene (TMP)

17.516min (-0.000) 0.238 ppbv

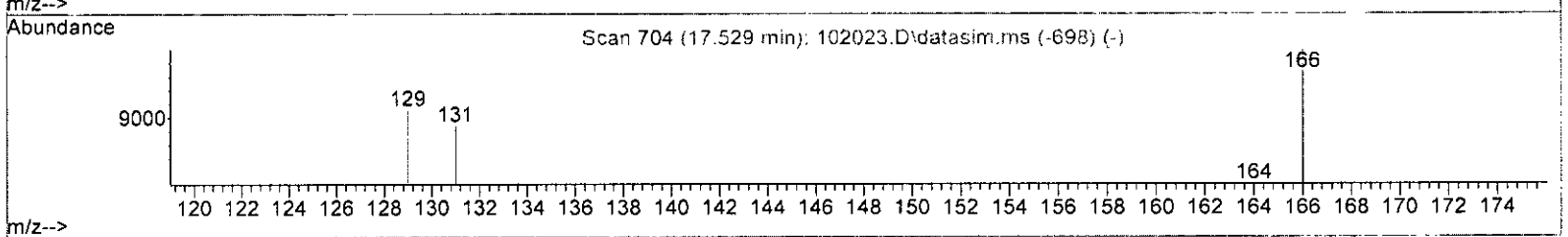
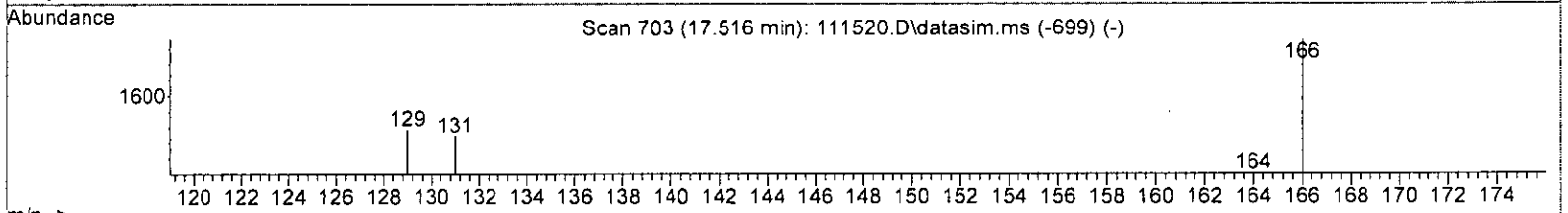
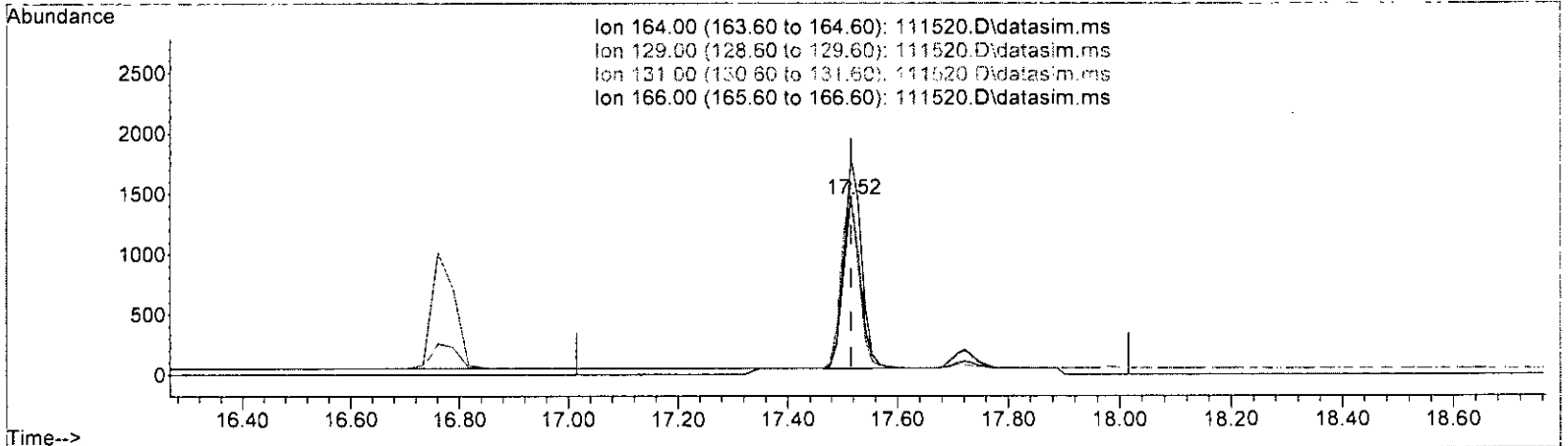
response 3292

Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	107.91
131.00	100.70	106.70
166.00	137.50	124.07

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(53) Tetrachloroethene (TMP)

17.516min (-0.000) 0.215 ppbv m

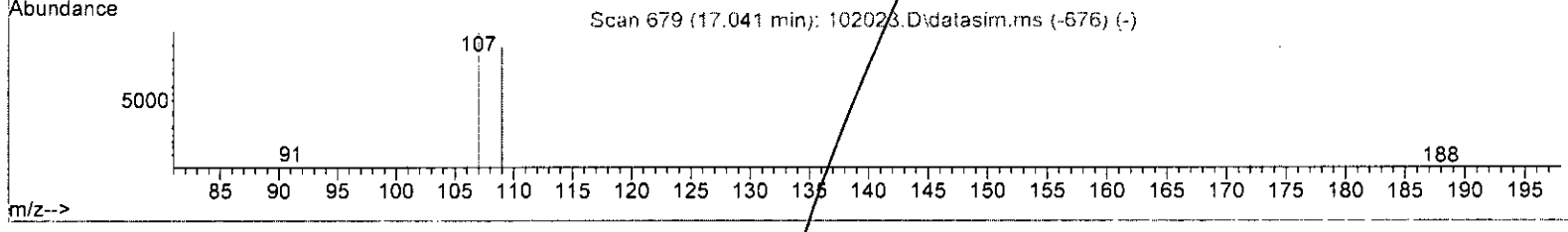
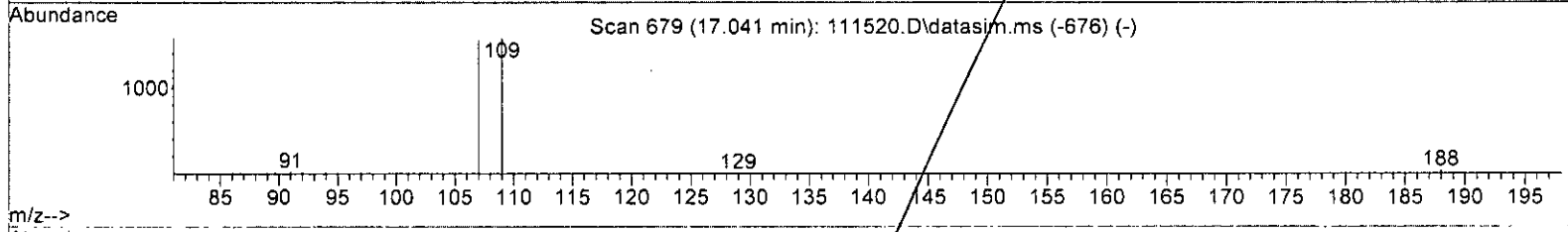
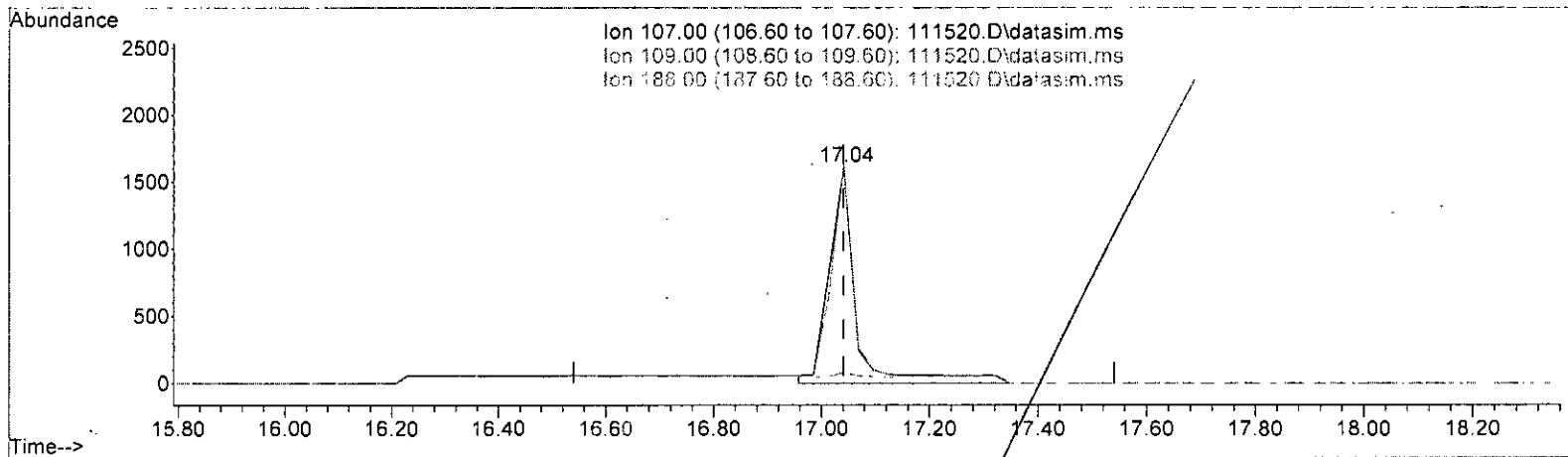
response	2972	
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	107.70
131.00	100.70	106.60
166.00	137.50	123.23

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.041min (+ 0.000) 0.241 ppbv

response 5380

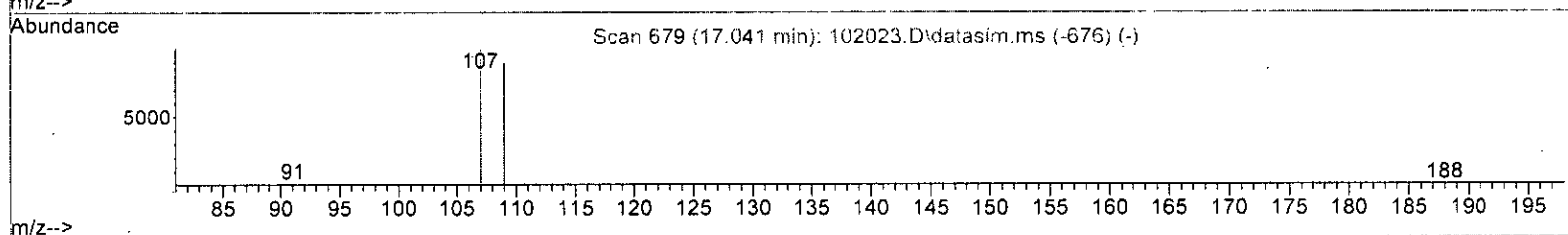
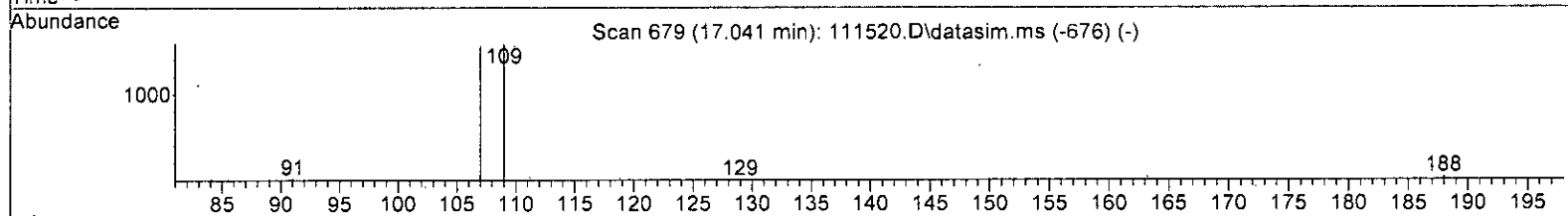
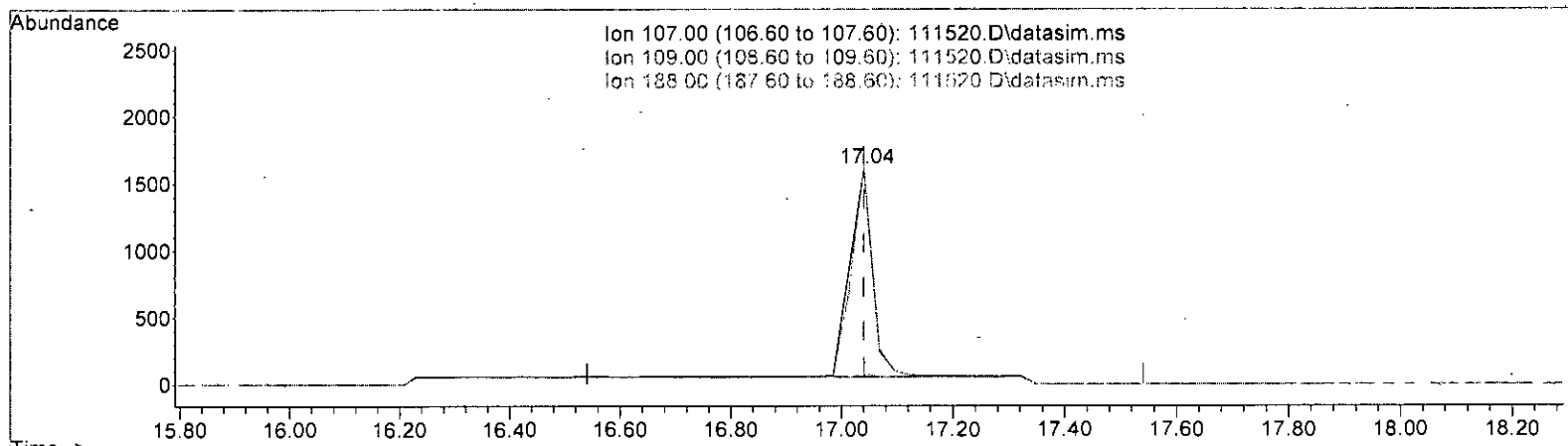
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	101.18
188.00	2.70	5.02
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-1968  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.041min (+ 0.000) 0.194 ppbv m

response 4368

Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	101.18
188.00	2.70	5.02
0.00	0.00	0.00

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	63282	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	281999	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	252889	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	162096	9.249	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	92.50%	
Target Compounds						
						Qvalue
2) Propene	3.41	41	2596	0.215	ppbv	95
3) Dichlorodifluoromethane	3.49	85	4964	0.190	ppbv	95
4] Chloromethane	3.73	50	2918m	0.245	ppbv	
5) F-114	3.84	85	5157	0.193	ppbv	94
6] Vinyl chloride	4.09	62	2303	0.197	ppbv	99
7] 1,3-Butadiene	4.29	54	1397	0.182	ppbv #	89
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	4.60	94	2258	0.193	ppbv	89
10] Chloroethane	4.84	64	825m	0.199	ppbv	
11] Vinyl bromide	5.30	106	1998m	0.196	ppbv	
12) Ethanol	0.00		0	N.D.	d	
13] Acrolein	5.40	56	899m	0.195	ppbv	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	5.80	101	6289	0.208	ppbv	79
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	0.00		0	N.D.	d	
18] 1,1-Dichloroethene	6.63	96	2035	0.195	ppbv	89
19] trans-1,2-Dichloroethene	8.07	96	2025	0.200	ppbv	86
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	6.94	41	2566	0.197	ppbv	91
23) CFC-113	7.15	101	4645	0.212	ppbv	100
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	8.43	73	4125	0.190	ppbv	85
26) Vinyl acetate	0.00		0	N.D.	d	
27] 1,1-Dichloroethane	8.36	63	4141	0.196	ppbv	100
28] cis-1,2-Dichloroethene	9.64	96	2075	0.194	ppbv	97
29) Hexane	0.00		0	N.D.	d	
30] Chloroform	10.08	83	4941	0.196	ppbv	95
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	10.77	42	2272m	0.198	ppbv	
33) 2-Butanone (MEK)	8.91	72	741	0.189	ppbv #	45
34] 1,2-Dichloroethane (EDC)	11.34	62	3226m	0.193	ppbv	
35] 1,1,1-Trichloroethane	11.83	97	4009m	0.189	ppbv	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37] Benzene	12.61	78	7651	0.173	ppbv	96
38) Cyclohexane	0.00		0	N.D.	d	
40] 1,2-Dichloropropane	13.80	63	2962m	0.194	ppbv	

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

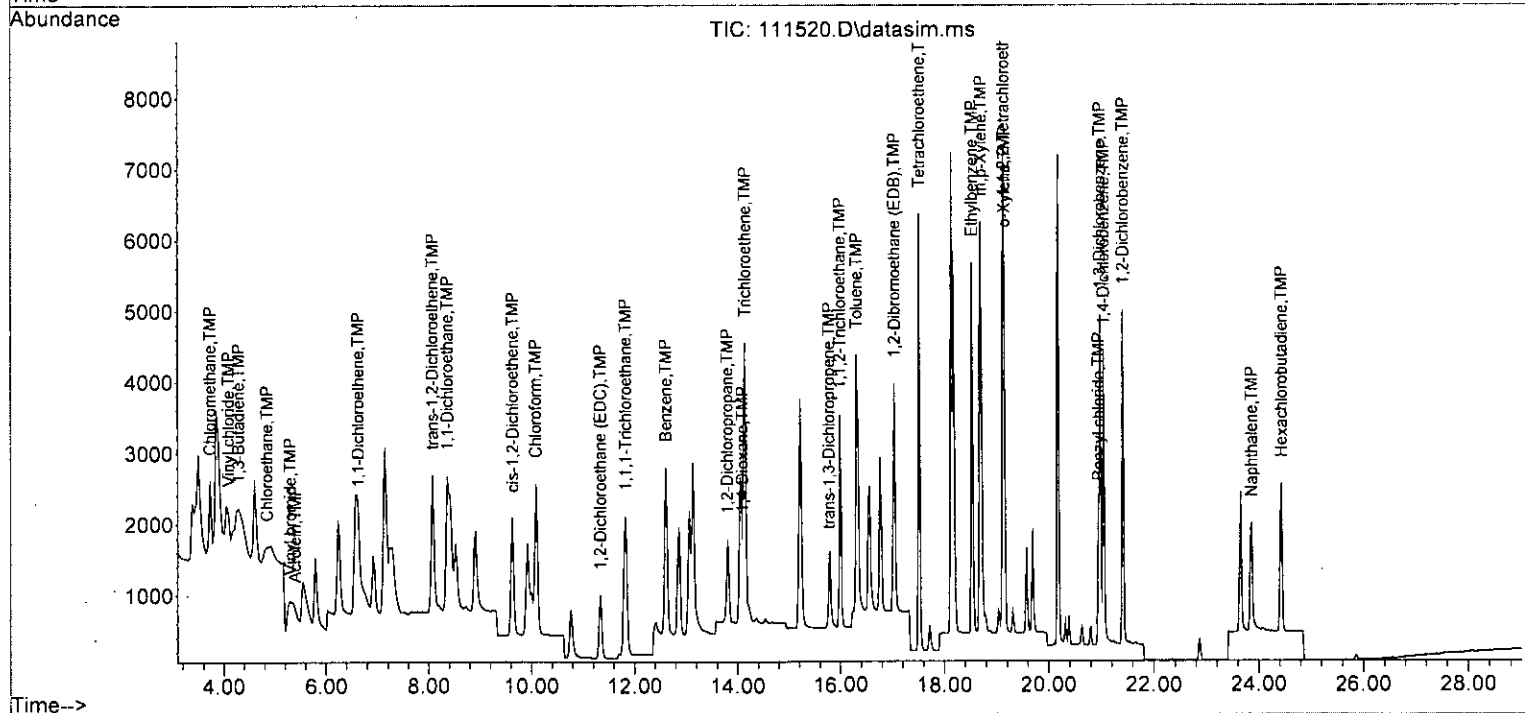
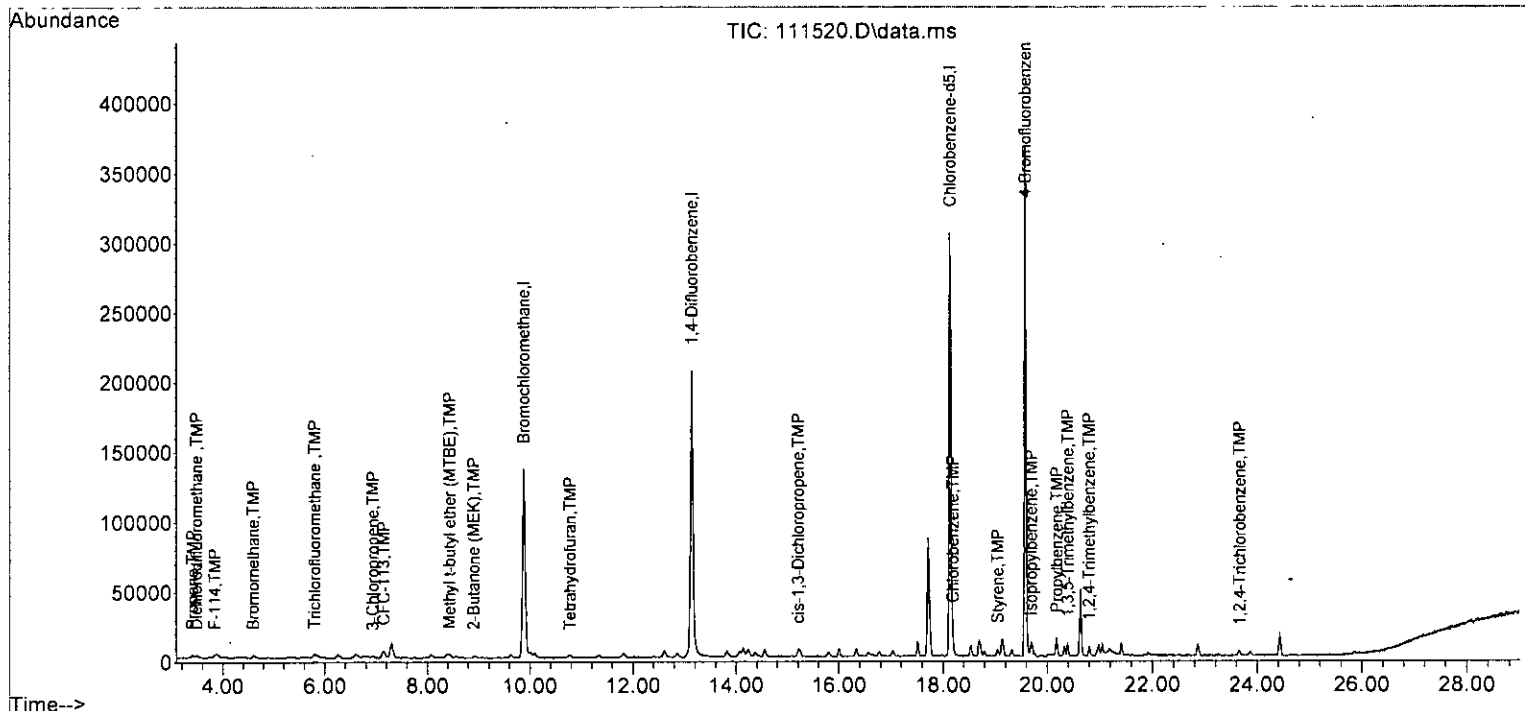
Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	1375	0.212	ppbv	86
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45) Bromodichloromethane	0.00		0	N.D.	d	
46] Trichloroethene	14.14	95	3461	0.207	ppbv	97
47) cis-1,3-Dichloropropene	15.20	75	3051	0.181	ppbv	89
48) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
49] trans-1,3-Dichloropropene	15.78	75	2873	0.181	ppbv	83
50] Toluene	16.31	92	4061m	0.204	ppbv	
51] 1,1,2-Trichloroethane	16.00	83	3041m	0.200	ppbv	
52) 2-Hexanone	0.00		0	N.D.	d	
53] Tetrachloroethene	17.52	164	2972m	0.215	ppbv	
54) Dibromochloroethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	4368m	0.194	ppbv	
57) Chlorobenzene	18.19	112	5326	0.191	ppbv	87
58] Ethylbenzene	18.53	91	8569	0.181	ppbv	98
59] 1,1,2,2-Tetrachloroethane	19.13	83	6631	0.190	ppbv	94
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	19.70	105	8458	0.187	ppbv	97
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63) Propylbenzene	20.19	91	13612	0.164	ppbv	99
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65] m,p-Xylene	18.70	106	5535	0.346	ppbv	98
66] o-Xylene	19.15	106	2708	0.174	ppbv	98
67) Styrene	19.05	104	3464	0.167	ppbv	90
68) Bromoform	0.00		0	N.D.	d	
70] Benzyl chloride	20.95	91	3017	0.106	ppbv	98
71) 1,3,5-Trimethylbenzene	20.39	105	5815	0.159	ppbv	93
72) 1,2,4-Trimethylbenzene	20.80	105	4256	0.190	ppbv	80
73] 1,3-Dichlorobenzene	20.98	146	4603	0.180	ppbv	98
74] 1,4-Dichlorobenzene	21.05	146	4070	0.170	ppbv	98
75] 1,2-Dichlorobenzene	21.41	146	4673	0.180	ppbv	96
76) 1,2,4-Trichlorobenzene	23.66	180	2298	0.159	ppbv	83
77] Naphthalene	23.86	128	4383	0.239	ppbv	99
78] Hexachlorobutadiene	24.44	225	5046	0.191	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	0.200	0.215	-7.5	100	0.00
3 TMP Dichlorodifluoromethane	0.200	0.190	5.0	100	0.00
4 TMP Chloromethane	0.200	0.245	-22.5	99	0.00
5 TMP F-114	0.200	0.193	3.5	100	-0.04
6 TMP Vinyl chloride	0.200	0.197	1.5	101	0.00
7 TMP 1,3-Butadiene	0.200	0.182	9.0	100	0.00
8 TMP Butane	-1.000	0.000	0.0	0	-4.32#
9 TMP Bromomethane	0.200	0.193	3.5	100	0.00
10 TMP Chloroethane	0.200	0.199	0.5	101	0.00
11 TMP Vinyl bromide	0.200	0.196	2.0	104	-0.02
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.96#
13 TMP Acrolein	0.200	0.195	2.5	100	-0.02
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	0.200	0.208	-4.0	100	-0.04
16 TMP Acetone	-1.000	0.000	0.0	0	-5.57#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	0.200	0.195	2.5	98	0.00
19 TMP trans-1,2-Dichloroethene	0.200	0.200	0.0	100	-0.03
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.80#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	0.200	0.197	1.5	100	0.00
23 TMP CFC-113	0.200	0.212	-6.0	100	0.00
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	0.200	0.190	5.0	100	0.00
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.54#
27 TMP 1,1-Dichloroethane	0.200	0.196	2.0	100	0.00
28 TMP cis-1,2-Dichloroethene	0.200	0.194	3.0	100	0.00
29 TMP Hexane	-1.000	0.000	0.0	0	-10.01#
30 TMP Chloroform	0.200	0.196	2.0	100	-0.02
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.92#
32 TMP Tetrahydrofuran	0.200	0.198	1.0	100	0.03
33 TMP 2-Butanone (MEK)	0.200	0.189	5.5	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	0.200	0.193	3.5	97	0.00
35 TMP 1,1,1-Trichloroethane	0.200	0.189	5.5	97	0.00
36 TMP Carbon tetrachloride	0.200	0.000	100.0#	0	-12.86#
37 TMP Benzene	0.200	0.173	13.5	105	0.00
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.07#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.200	0.194	3.0	100	0.00
41 TMP 1,4-Dioxane	0.200	0.212	-6.0	100	0.00
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.24#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.36#



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.56#
45 TMP Bromodichloromethane	0.200	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	0.200	0.207	-3.5	100	0.00
47 TMP cis-1,3-Dichloropropene	0.200	0.181	9.5	100	0.00
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.23#
49 TMP trans-1,3-Dichloropropene	0.200	0.181	9.5	100	0.00
50 TMP Toluene	0.200	0.204	-2.0	99	0.00
51 TMP 1,1,2-Trichloroethane	0.200	0.200	0.0	106	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	0.200	0.215	-7.5	99	0.00
54 TMP Dibromochloromethane	0.200	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.200	0.194	3.0	99	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	0.200	0.191	4.5	100	0.00
58 TMP Ethylbenzene	0.200	0.181	9.5	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.200	0.190	5.0	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.30#
61 TMP Isopropylbenzene	0.200	0.187	6.5	100	0.00
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	0.200	0.164	18.0	100	0.00
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.32#
65 TMP m,p-Xylene	0.400	0.346	13.5	100	0.00
66 TMP o-Xylene	0.200	0.174	13.0	100	0.00
67 TMP Styrene	0.200	0.167	16.5	100	0.00
68 TMP Bromoform	0.200	0.000	100.0#	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.249	7.5	100	0.00
70 TMP Benzyl chloride	0.200	0.106	47.0#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	0.200	0.159	20.5	100	0.00
72 TMP 1,2,4-Trimethylbenzene	0.200	0.190	5.0	100	0.00
73 TMP 1,3-Dichlorobenzene	0.200	0.180	10.0	100	0.00
74 TMP 1,4-Dichlorobenzene	0.200	0.170	15.0	101	0.00
75 TMP 1,2-Dichlorobenzene	0.200	0.180	10.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.200	0.159	20.5	100	0.02
77 TMP Naphthalene	0.200	0.239	-19.5	100	0.02
78 TMP Hexachlorobutadiene	0.200	0.191	4.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	2.051	-31.8#	100	0.00
3 TMP Dichlorodifluoromethane	4.123	3.922	4.9	100	0.00
4 TMP Chloromethane	1.882	2.306	-22.5	99	0.00
5 TMP F-114	4.217	4.075	3.4	100	-0.04
6 TMP Vinyl chloride	1.851	1.820	1.7	101	0.00
7 TMP 1,3-Butadiene	1.216	1.104	9.2	100	0.00
8 TMP Butane	2.183	0.000	100.0#	0#	-4.32#
9 TMP Bromomethane	1.847	1.784	3.4	100	0.00
10 TMP Chloroethane	0.655	0.652	0.5	101	0.00
11 TMP Vinyl bromide	1.609	1.579	1.9	104	-0.02
12 TMP Ethanol	0.663	0.000	100.0#	0#	-4.96#
13 TMP Acrolein	0.729	0.710	2.6	100	-0.02
14 TMP Pentane	2.461	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.781	4.969	-3.9	100	-0.04
16 TMP Acetone	0.710	0.000#	100.0#	0#	-5.57#
17 TMP 2-Propanol	3.096	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.645	1.608	2.2	98	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.600	-0.1	100	-0.03
20 TMP Methylene chloride	1.479	0.000#	100.0#	0#	-6.80#
21 TMP t-Butyl alcohol (TBA)	2.668	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.056	2.027	1.4	100	0.00
23 TMP CFC-113	3.469	3.670	-5.8	100	0.00
24 TMP Carbon disulfide	5.167	0.000	100.0#	0#	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.259	5.1	100	0.00
26 TMP Vinyl acetate	3.801	0.000#	100.0#	0#	-8.54#
27 TMP 1,1-Dichloroethane	3.342	3.272	2.1	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.639	3.0	100	0.00
29 TMP Hexane	2.068	0.000	100.0#	0#	-10.01#
30 TMP Chloroform	4.060	3.904	3.8	100	-0.02
31 TMP Ethyl acetate	3.789	0.000	100.0#	0#	-9.92#
32 TMP Tetrahydrofuran	1.809	1.795	0.8	100	0.03
33 TMP 2-Butanone (MEK)	0.619	0.585	5.5	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.549	5.1	97	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.168	5.2	97	0.00
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	6.045	-6.3	105	0.00
38 TMP Cyclohexane	1.367	0.000	100.0#	0#	-13.07#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.525	3.0	100	0.00
41 TMP 1,4-Dioxane	0.230	0.244	-6.1	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	0.000	100.0#	0#	-14.24#
43 TMP Methyl methacrylate	0.485	0.000	100.0#	0#	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.000	100.0#	0#	-14.56#
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.614	-3.5	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.541	9.7	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.000	100.0#	0#	-15.23#
49 TMP trans-1,3-Dichloropropene	0.563	0.509	9.6	100	0.00
50 TMP Toluene	0.707	0.720	-1.8	99	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.539	2.0	106	0.00
52 TMP 2-Hexanone	0.846	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.490	0.527	-7.6	99	0.00
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.774	6.1	99	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.053	4.4	100	0.00
58 TMP Ethylbenzene	1.968	1.694	13.9	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.311	6.0	100	0.00
60 TMP Nonane	0.981	0.000	100.0#	0#	-19.30#
61 TMP Isopropylbenzene	1.792	1.672	6.7	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.292	2.691	18.3	100	0.00
64 TMP 4-Ethyltoluene	1.611	0.000	100.0#	0#	-20.32#
65 TMP m,p-Xylene	0.633	0.547	13.6	100	0.00
66 TMP o-Xylene	0.615	0.535	13.0	100	0.00
67 TMP Styrene	0.819	0.685	16.4	100	0.00
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.641	7.5	100	0.00
70 TMP Benzyl chloride	0.987	0.597	39.5#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.150	20.7	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	0.841	32.6#	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	0.910	10.1	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.805	15.0	101	0.00
75 TMP 1,2-Dichlorobenzene	1.024	0.924	9.8	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.454	27.5	100	0.02
77 TMP Naphthalene	1.132	0.867	23.4	100	0.02
78 TMP Hexachlorobutadiene	1.045	0.998	4.5	100	0.00

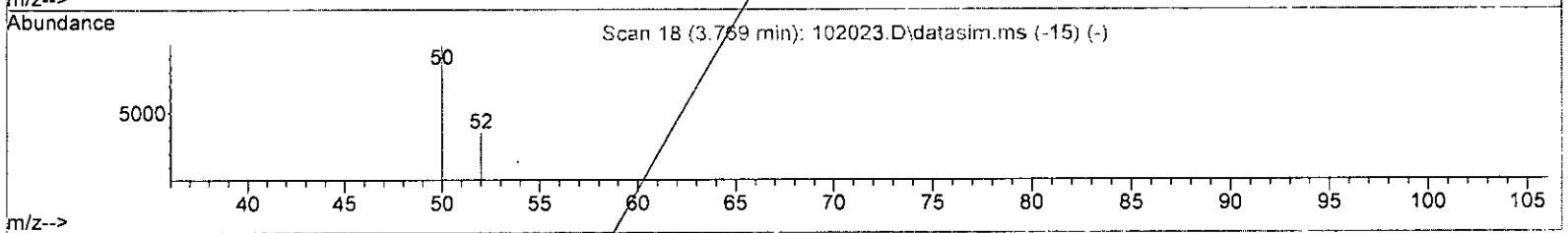
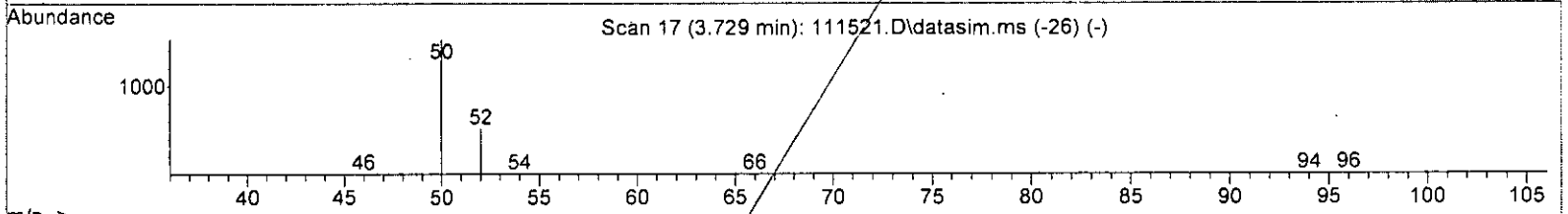
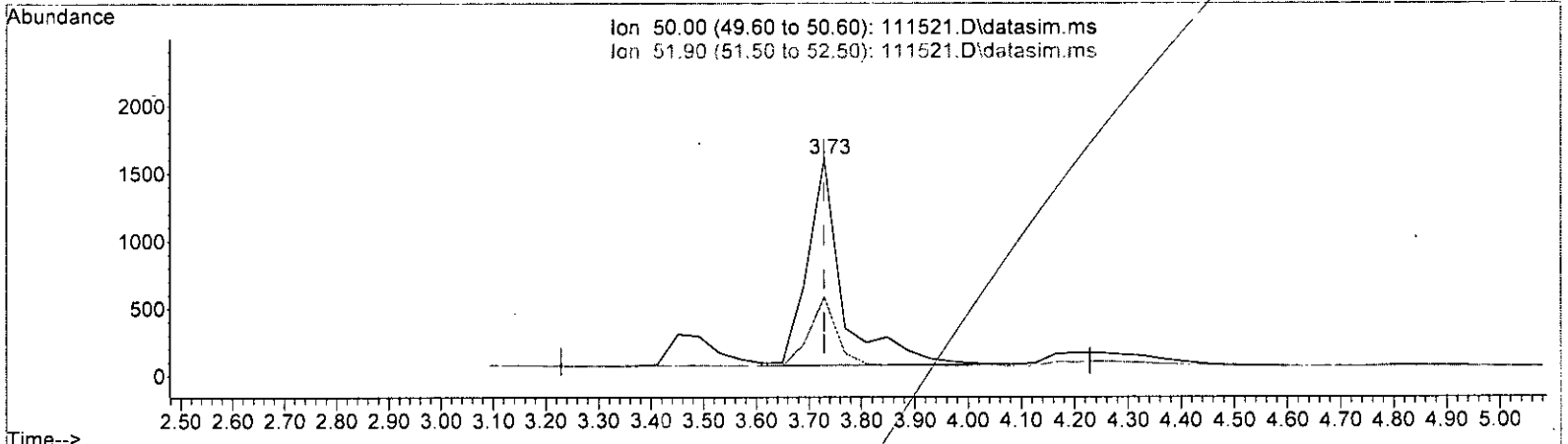
(#) = Out of Range

SPCC's out = 8 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111521.D\data.ms

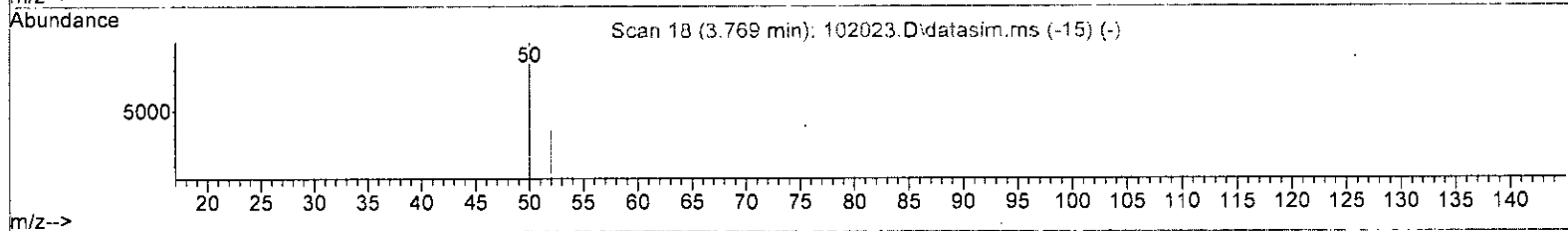
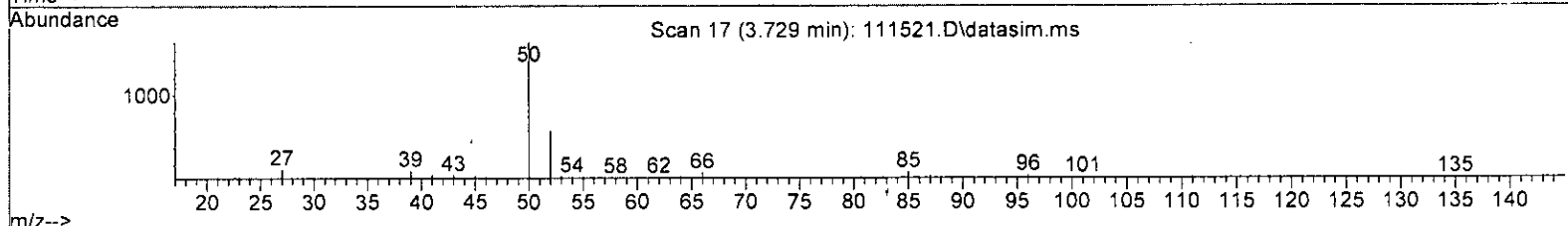
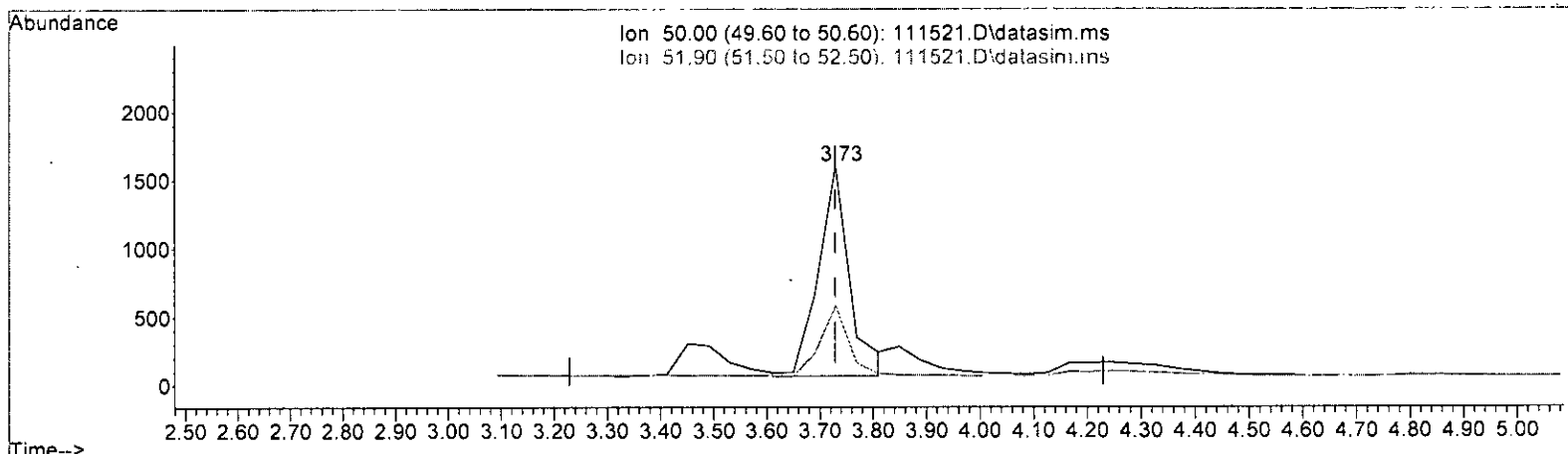
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	0.599 ppbv	
response	7076	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	33.81
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(4) Chloromethane (TMP)  
 3.729min (+ 0.000) 0.527 ppbv m

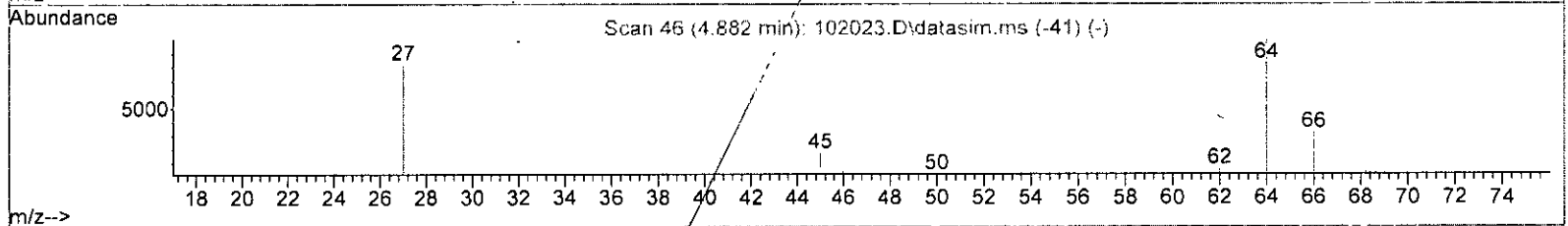
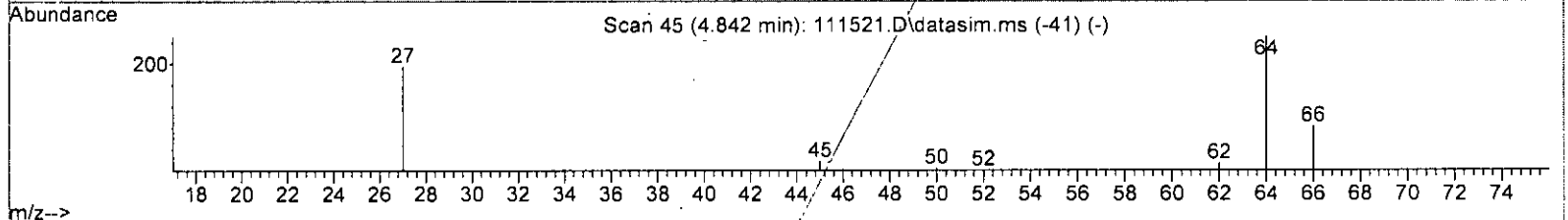
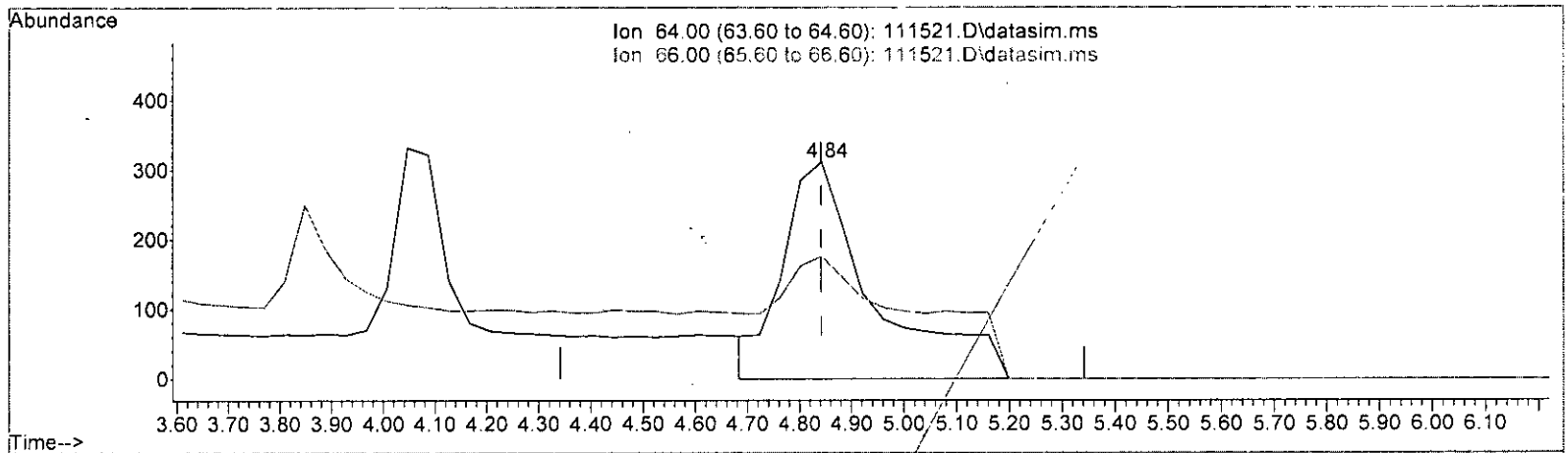
response	6232
Ion	Exp% Act%
50.00	100.00 100.00
51.90	25.30 36.34
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(10) Chloroethane (IMP)  
 4.842min ( 0.000) 0.874 ppbv

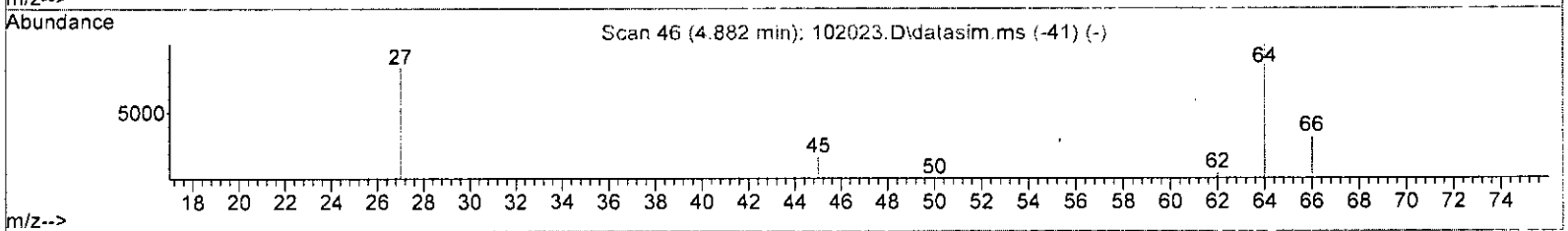
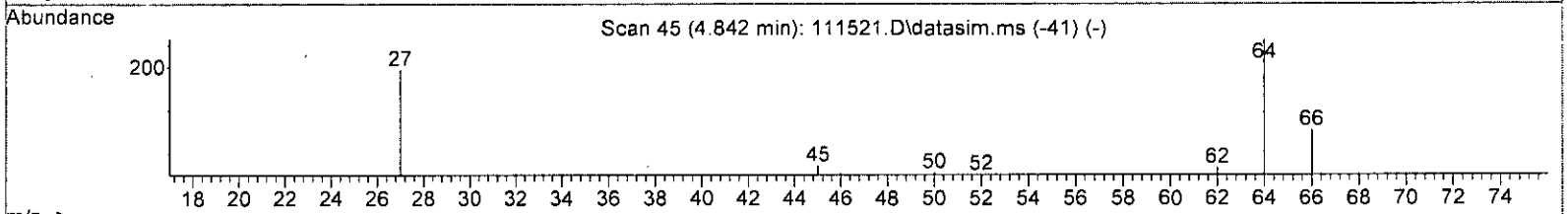
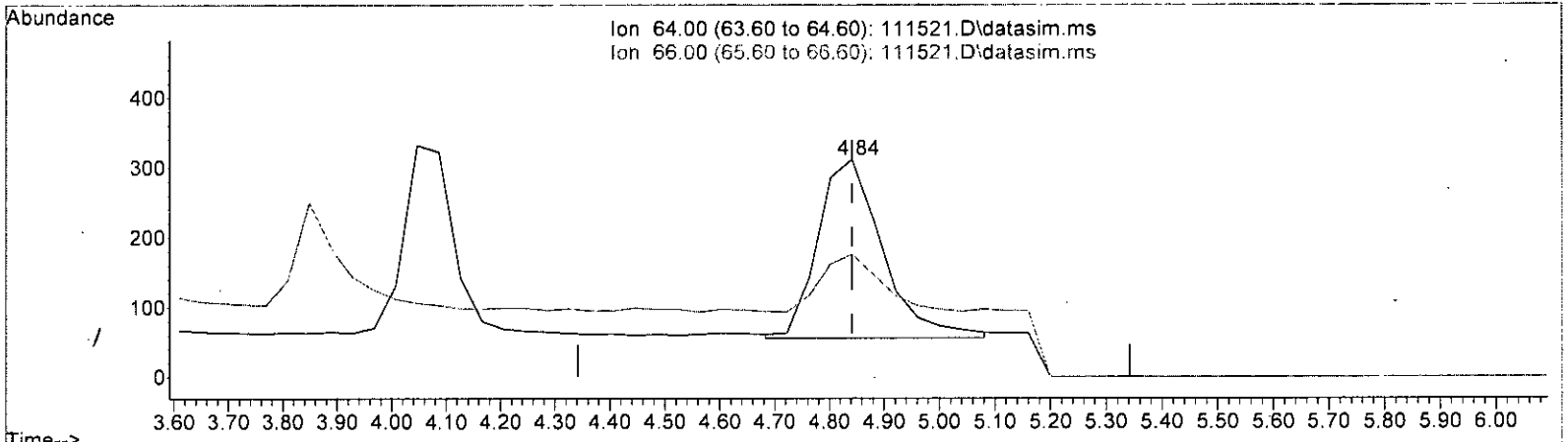
response	3591	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	56.59
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111521.D\data.ms

(10) Chloroethane (IMP)

4.842min ( 0.000) 0.509 ppbv m

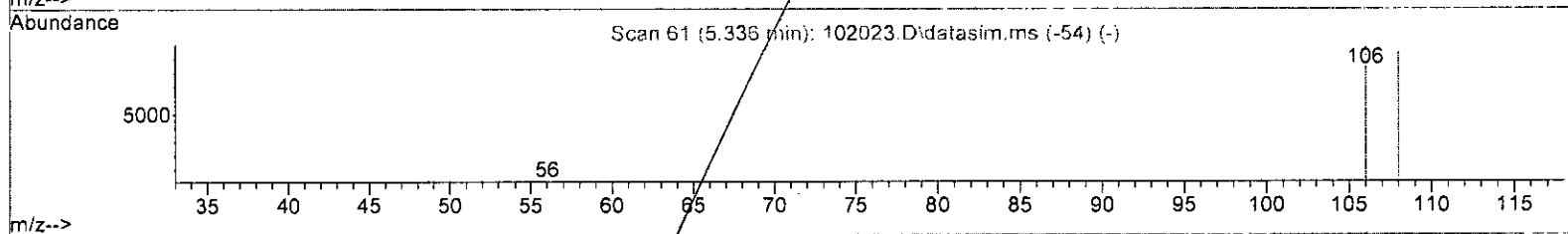
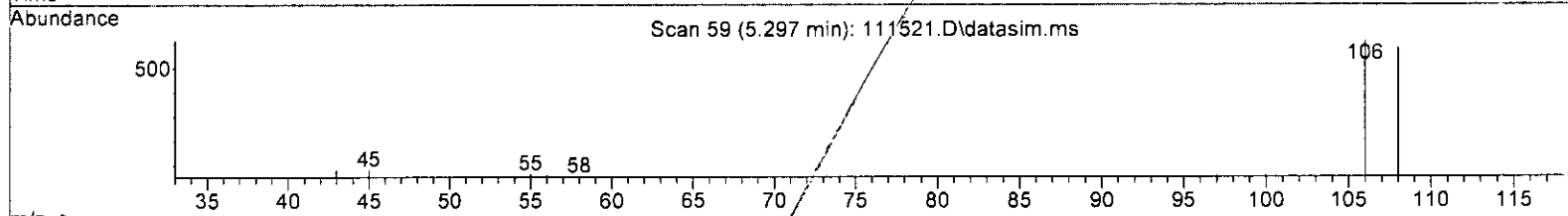
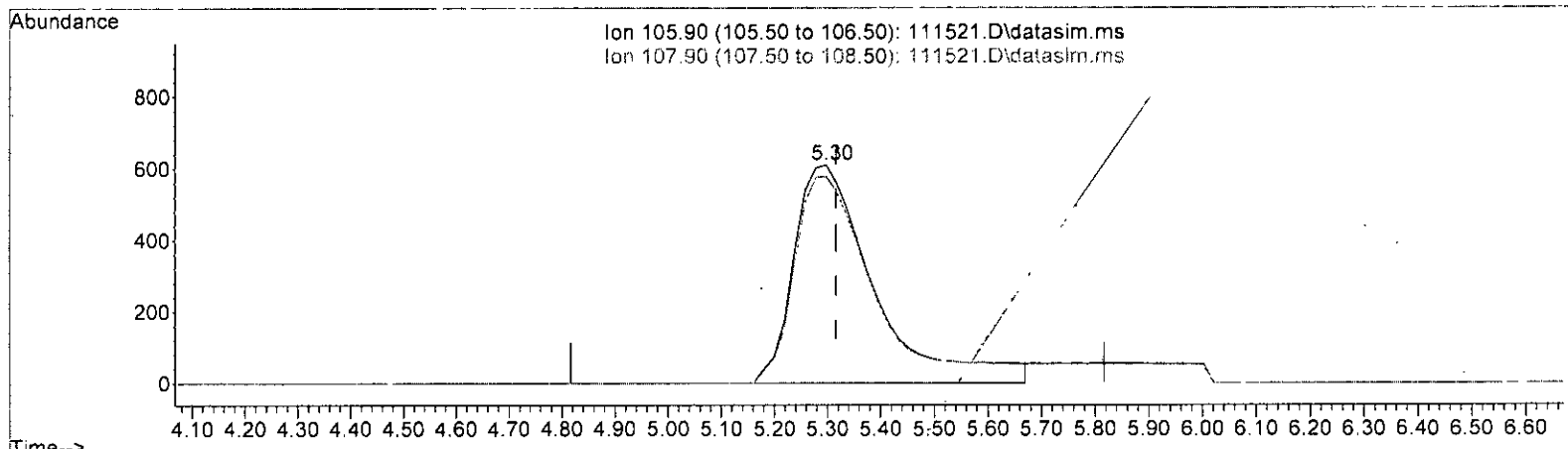
response	2091	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	56.59
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(11) Vinyl bromide (TMP)  
 5.297min (-0.020) 0.678 ppbv

response	6855	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	97.72
0.00	0.00	0.00
0.00	0.00	0.00

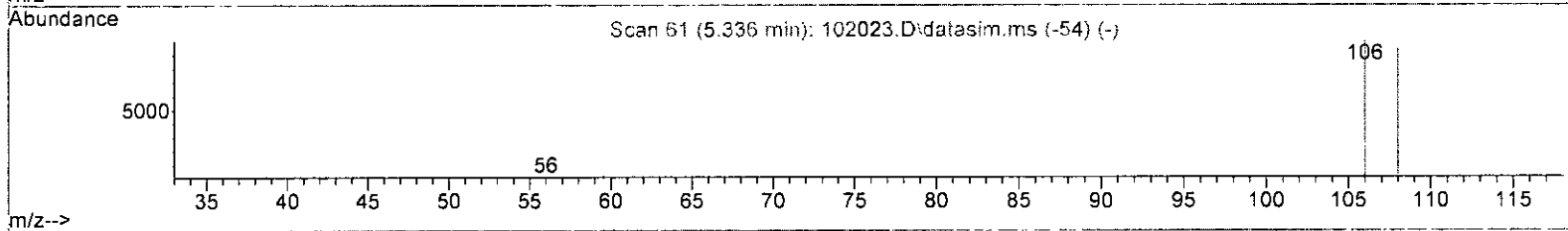
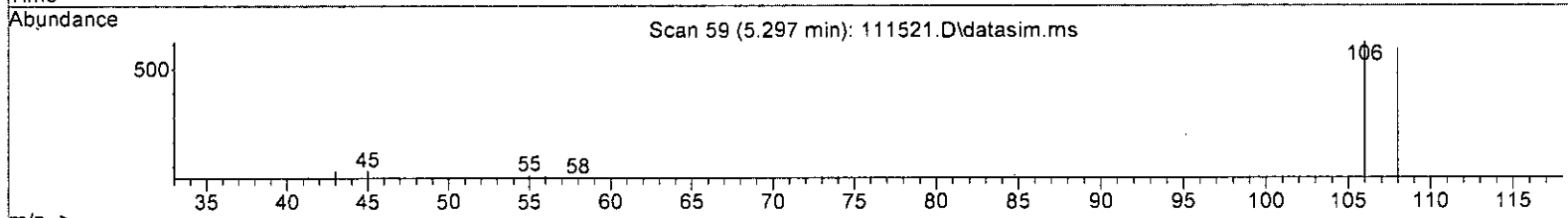
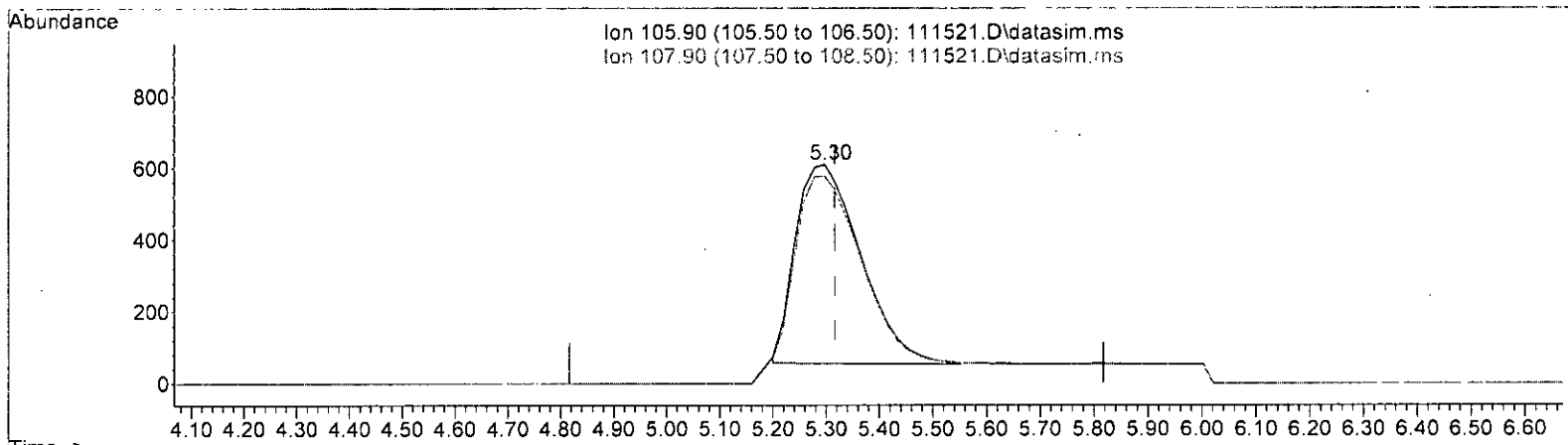
*Handwritten signature*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(11) Vinyl bromide (TMP)  
 5.297min (-0.020) 0.465 ppbv m

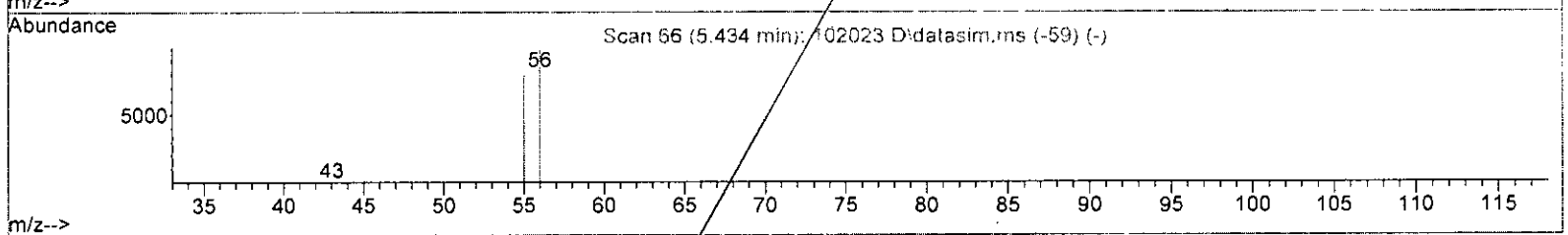
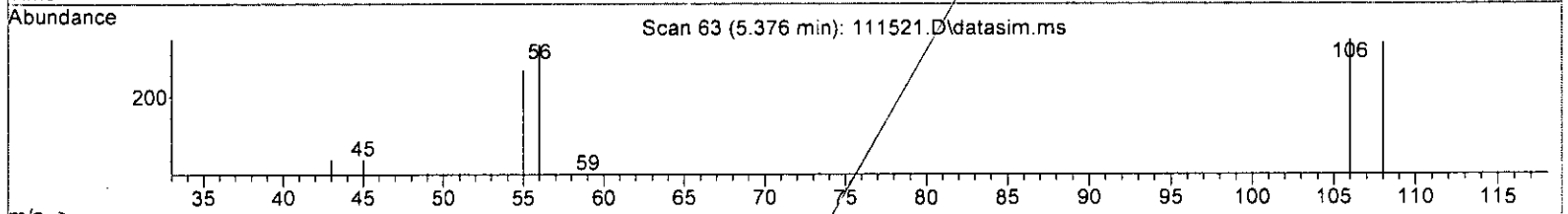
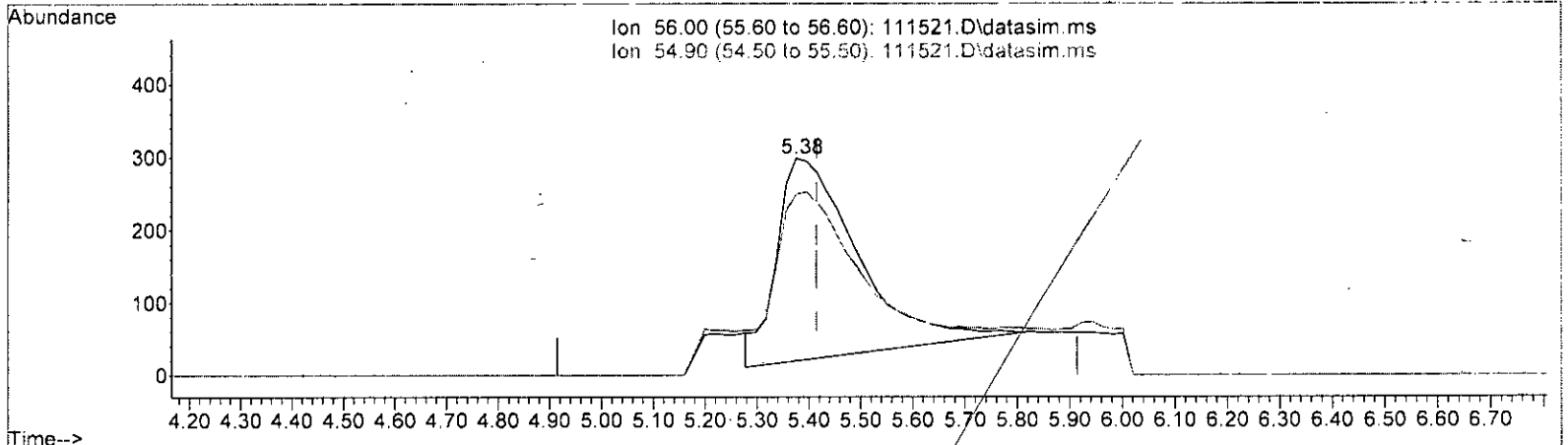
response	4701	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	142.50#
0.00	0.00	0.00
0.00	0.00	0.00

*W/alt*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

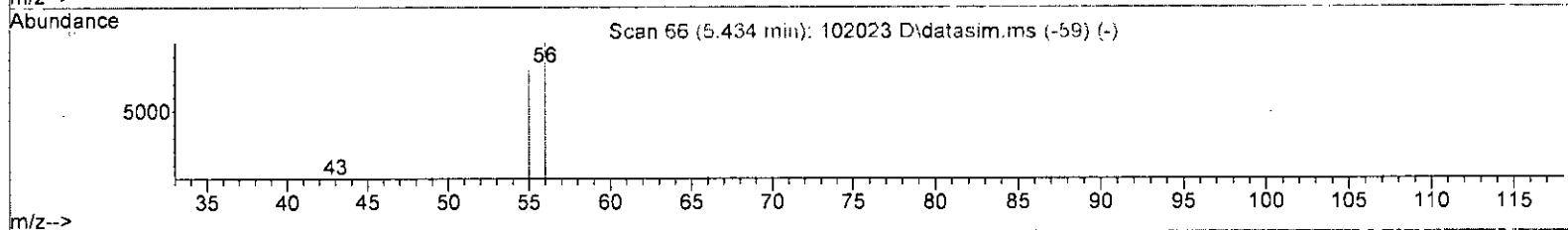
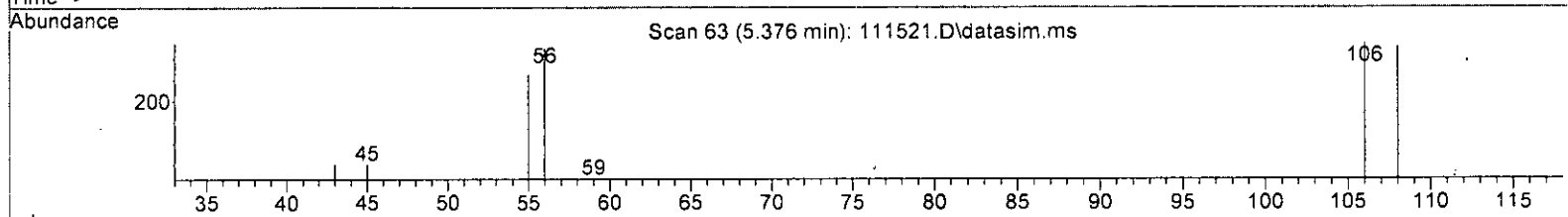
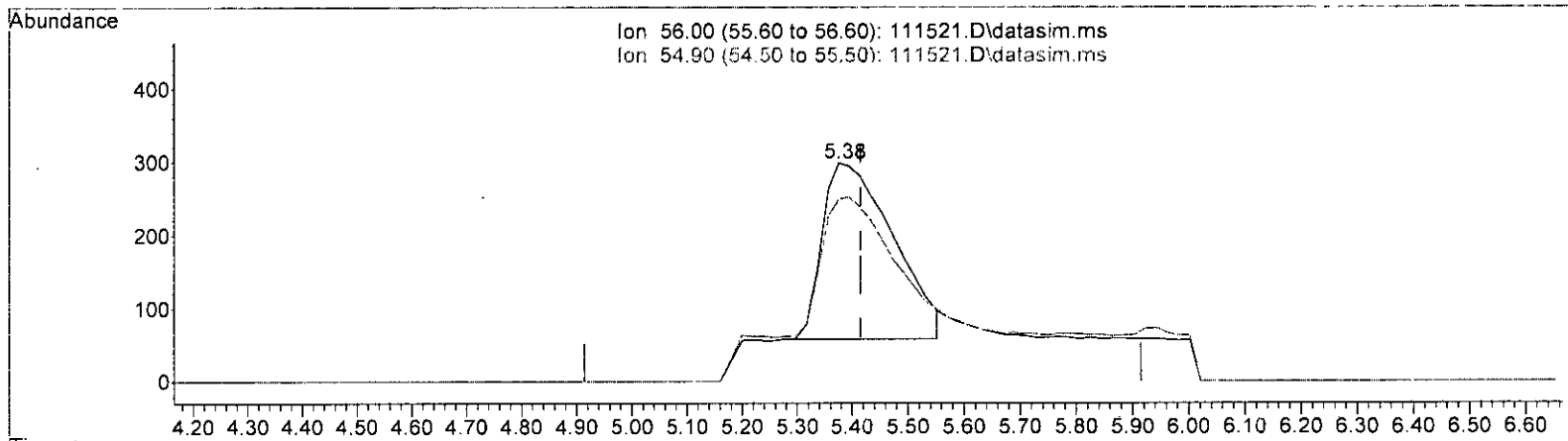
(13) Acrolein (TMP)		
5.376min (-0.039) 0.660 ppbv		
response	3019	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	82.81
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: TO15DC.M



TIC: 111521.D\data.ms

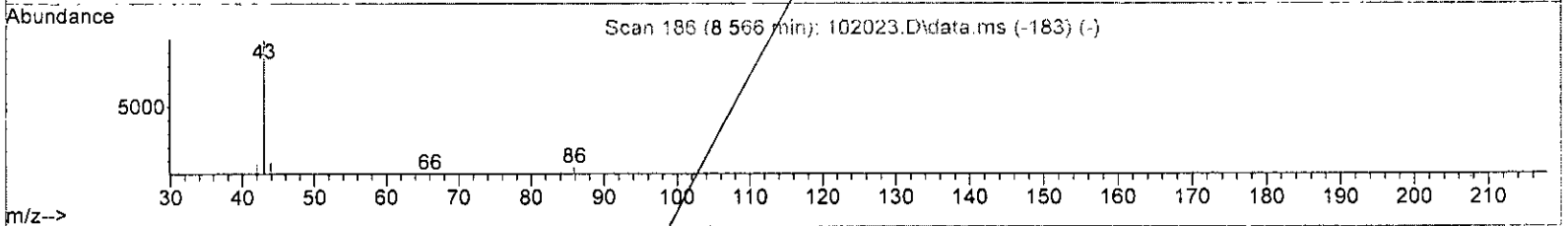
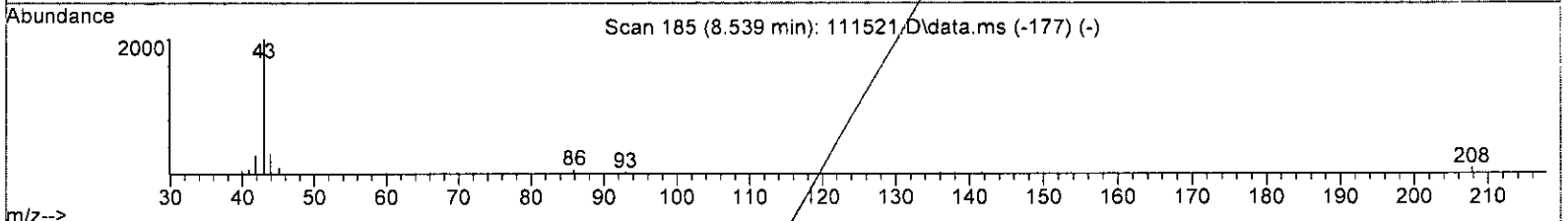
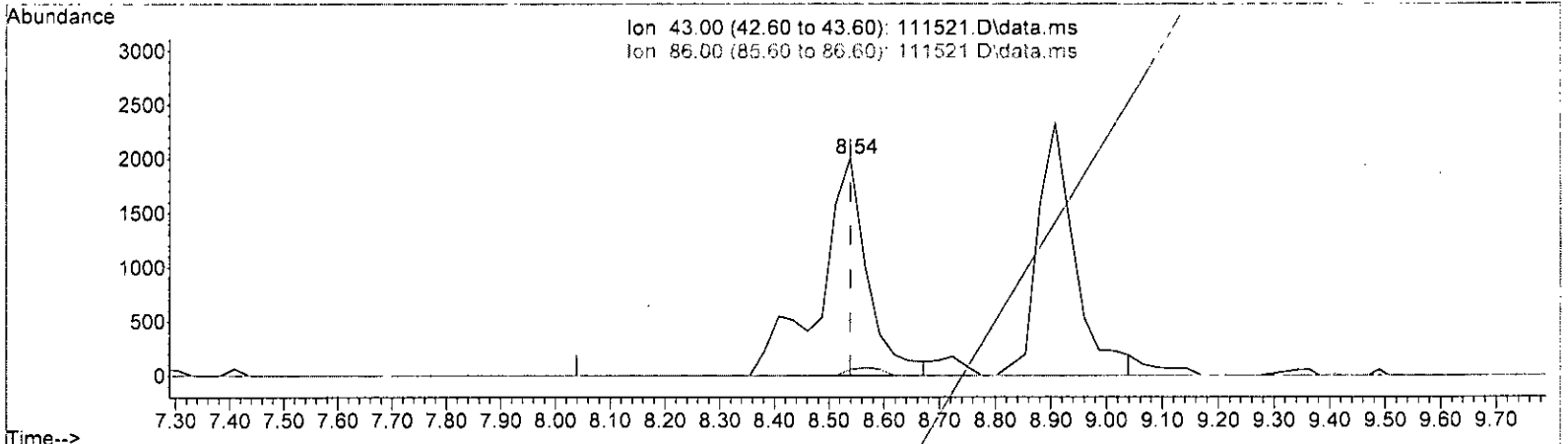
(13) Acrolein (TMP)			
5.376min (-0.039) 0.467 ppbv m			
response	2135		
Ion	Exp%	Act%	
56.00	100.00	100.00	
54.90	81.00	117.10#	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

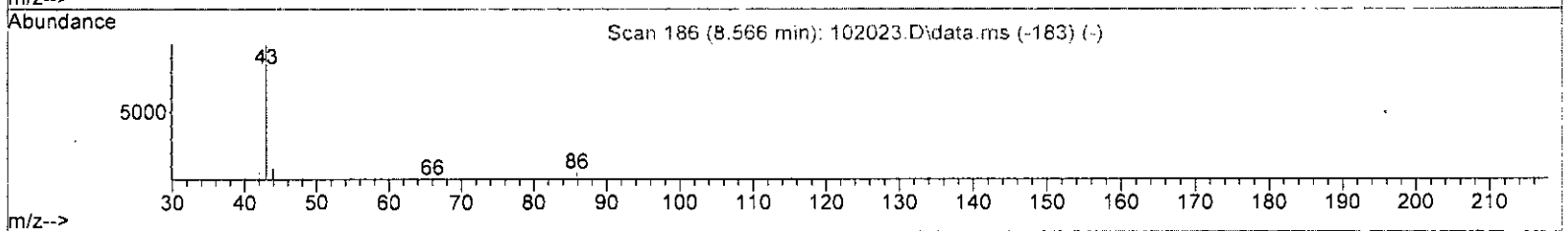
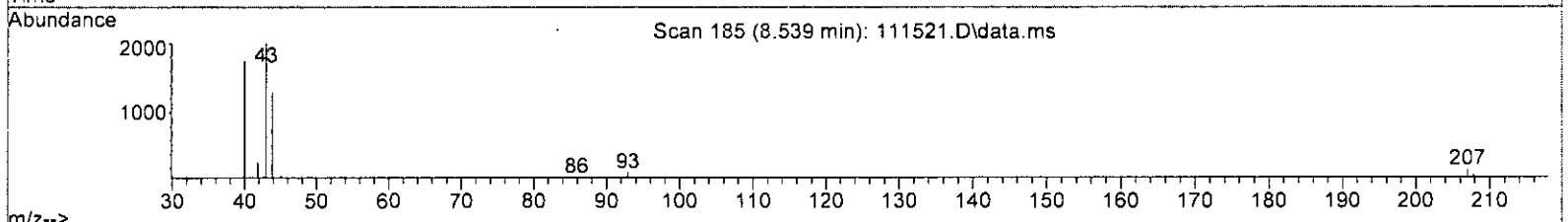
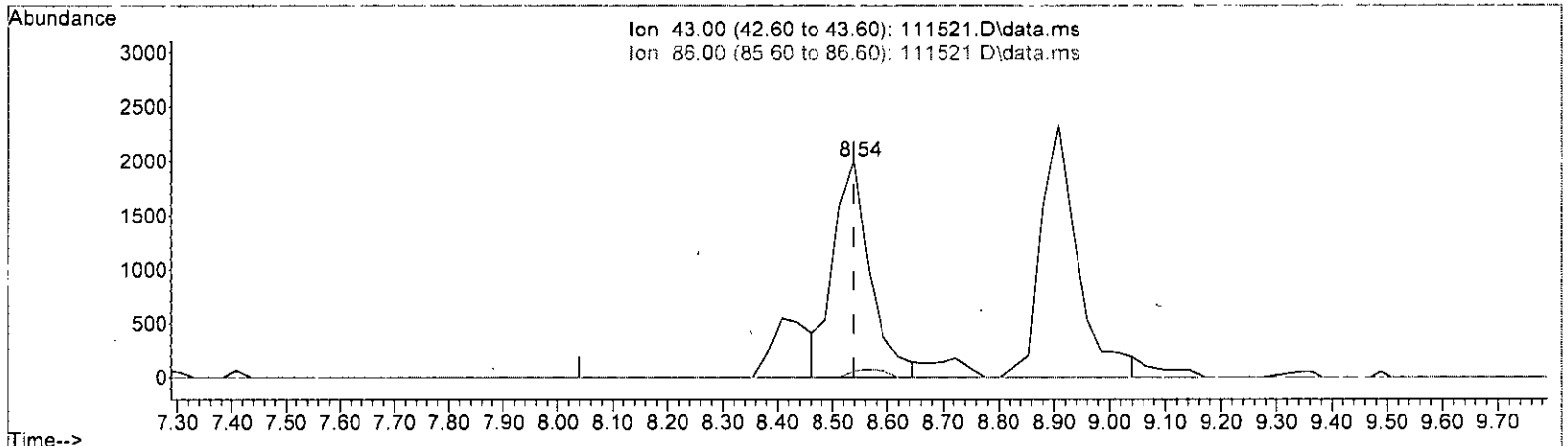
(26) Vinyl acetate (TMP)			
8.539min (+ 0.000) 0.507 ppbv			
response	12091		
Ion	Exp%	Act%	
43.00	100.00	100.00	
86.00	4.20	2.95	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

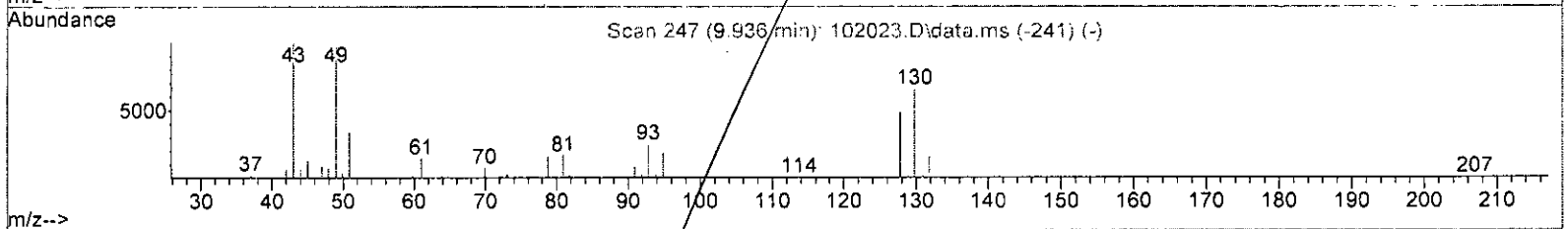
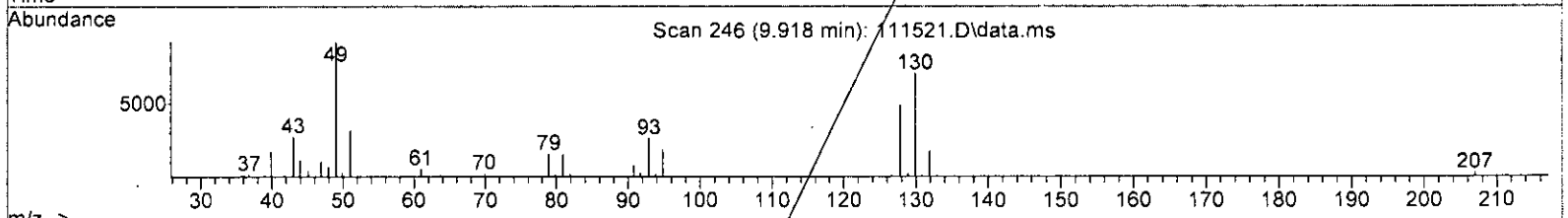
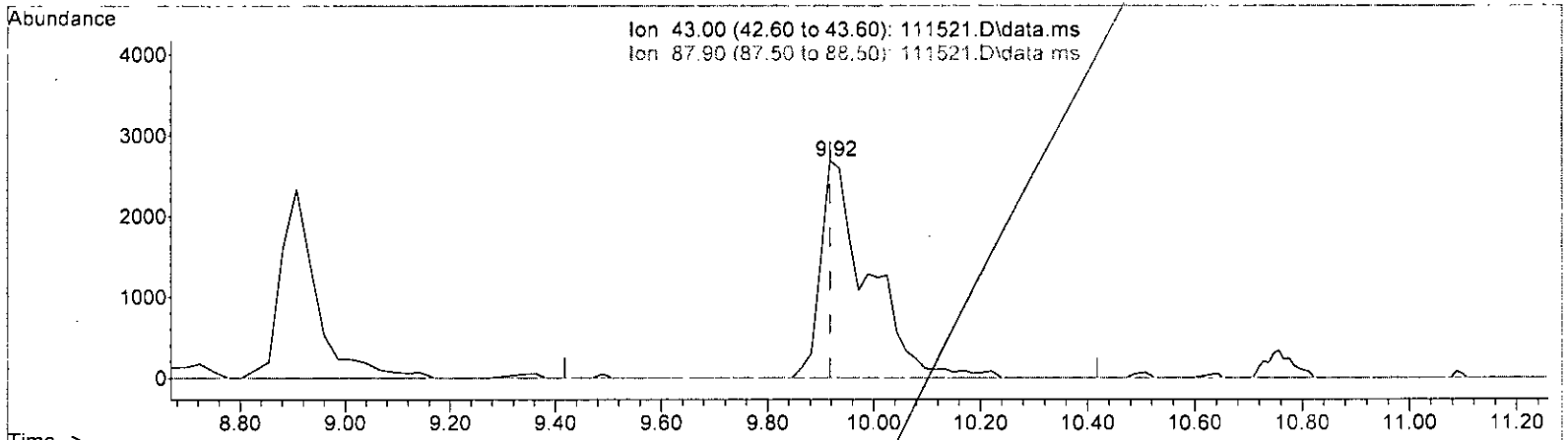
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000)	0.386 ppbv m	
response	9209	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	2.95
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

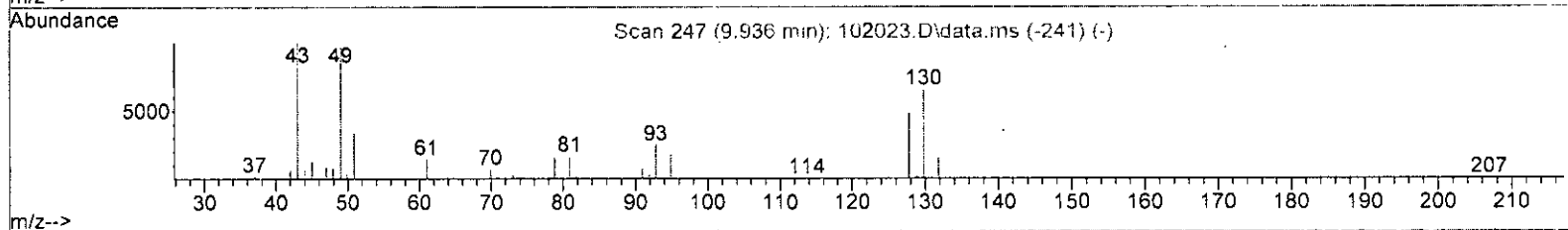
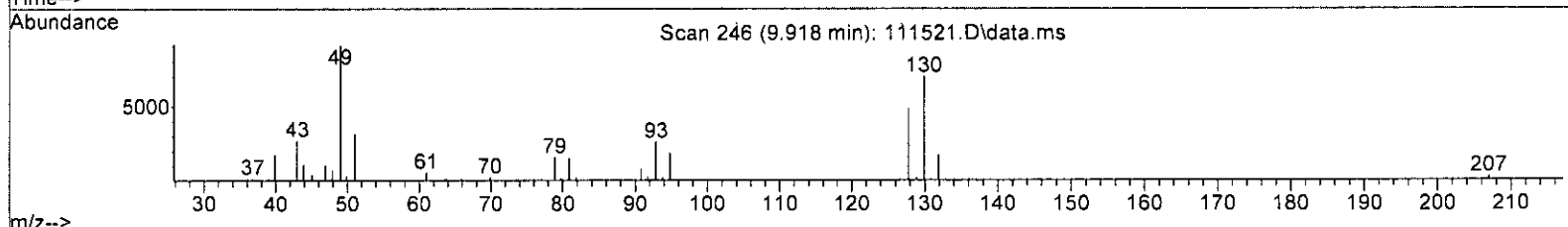
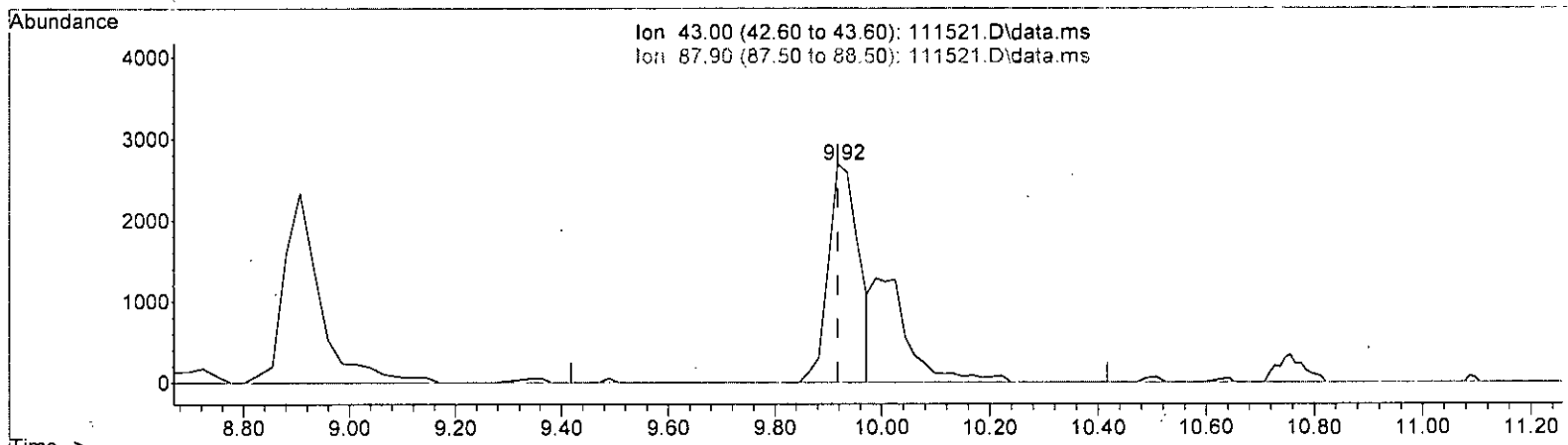
(31) Ethyl acetate (TMP)		
9.918min (-0.000)	0.704	ppbv
response	16734	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: W / 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

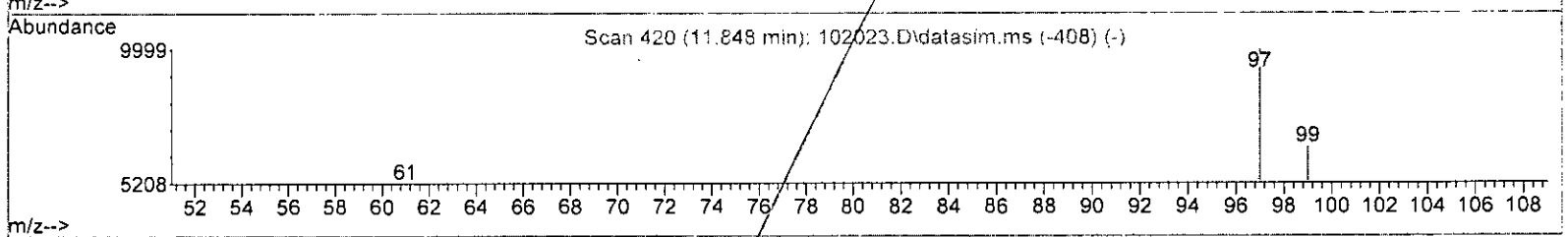
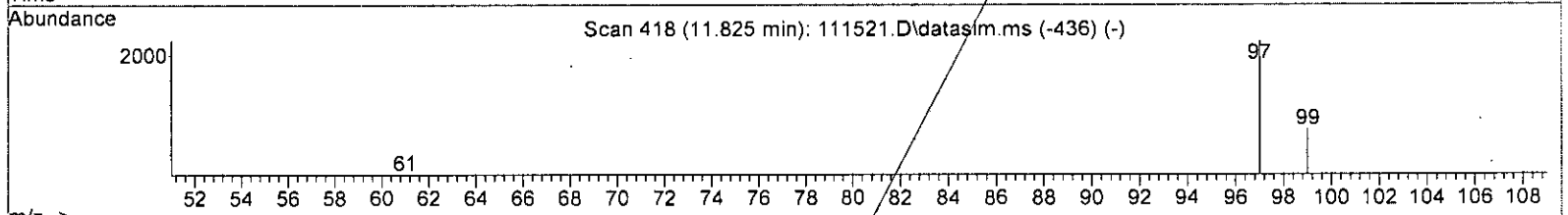
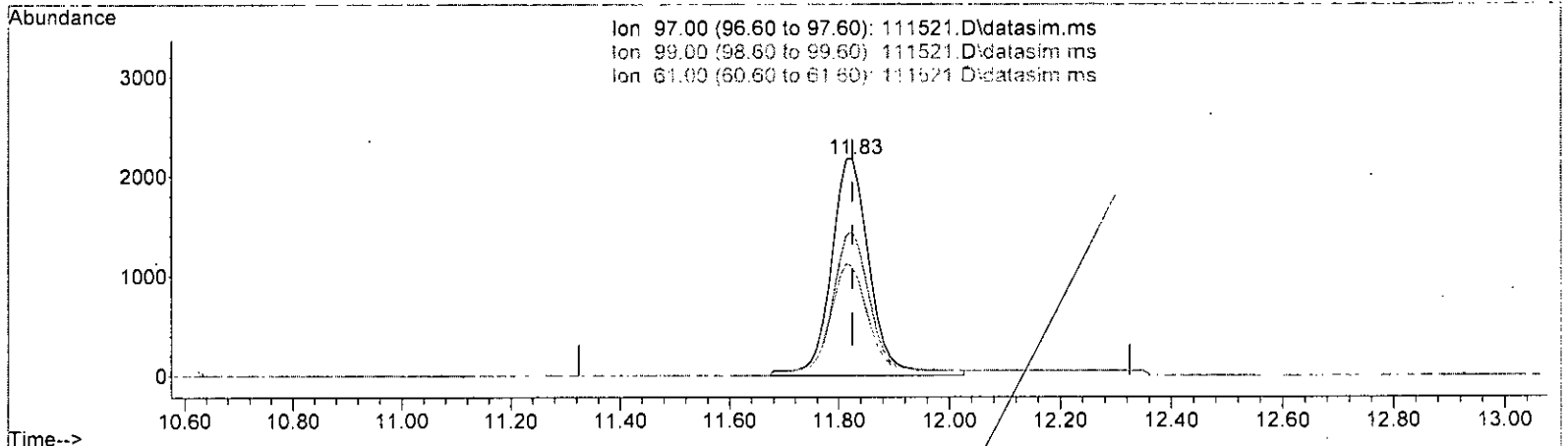
(31) Ethyl acetate (TMP)		
9.918min (-0.000)	0.451 ppbv m	
response	10717	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T01Sss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)			
11.825min (+ 0.000)	0.506 ppbv		
response	10621		
Ion	Exp%	Act%	
97.00	100.00	100.00	
99.00	61.70	66.45	
61.00	49.30	50.16	
0.00	0.00	0.00	

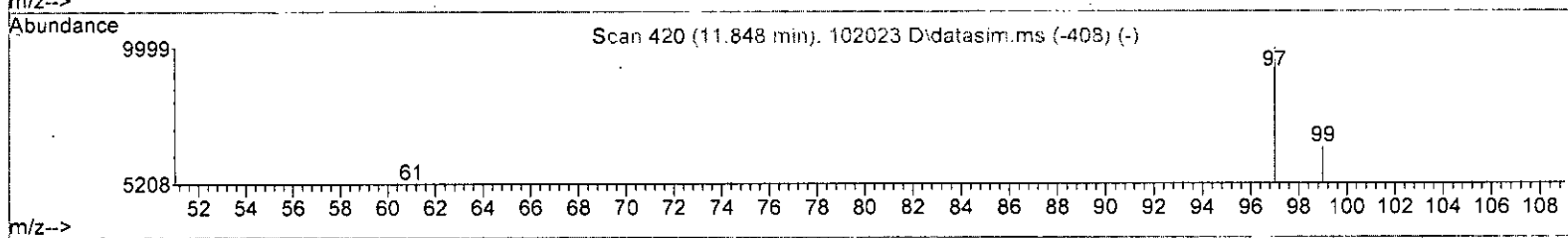
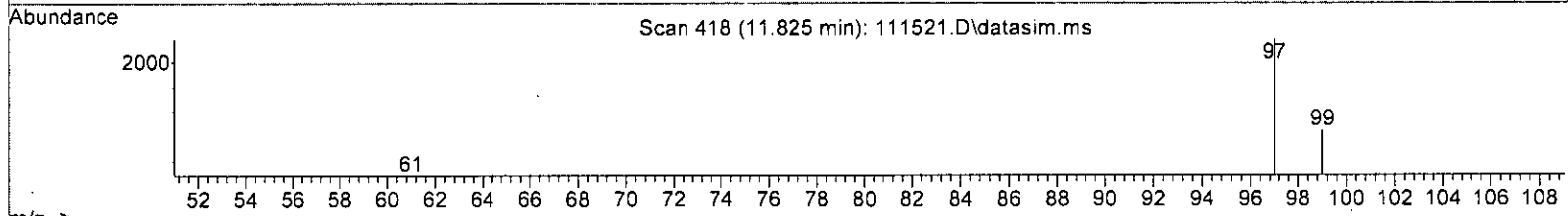
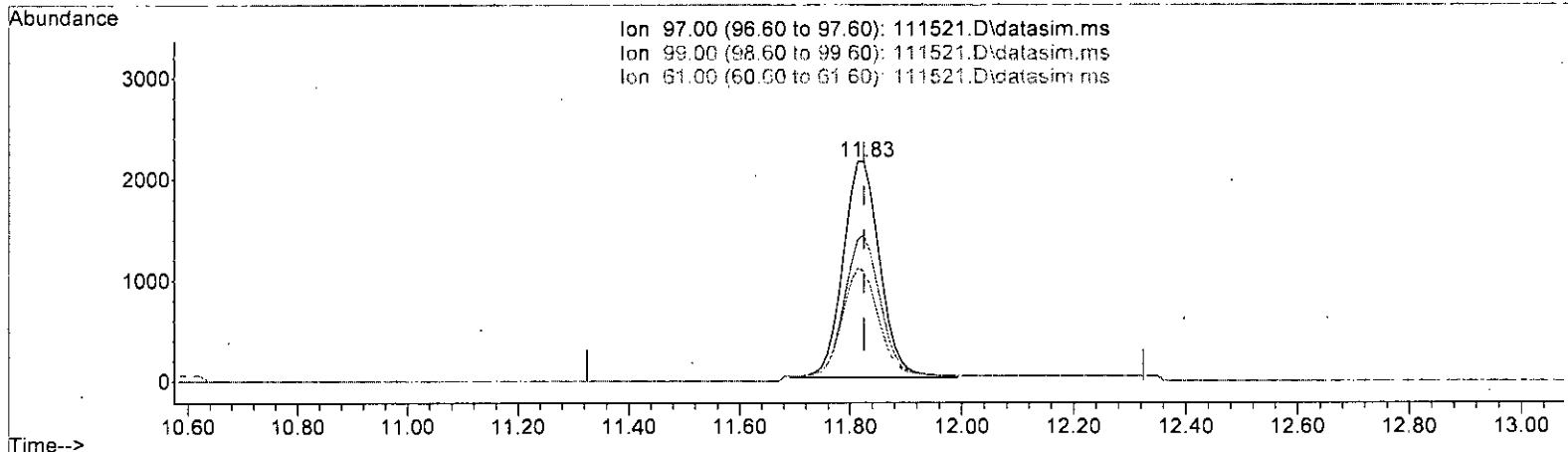
*Handwritten signature: bat 11/18/22*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

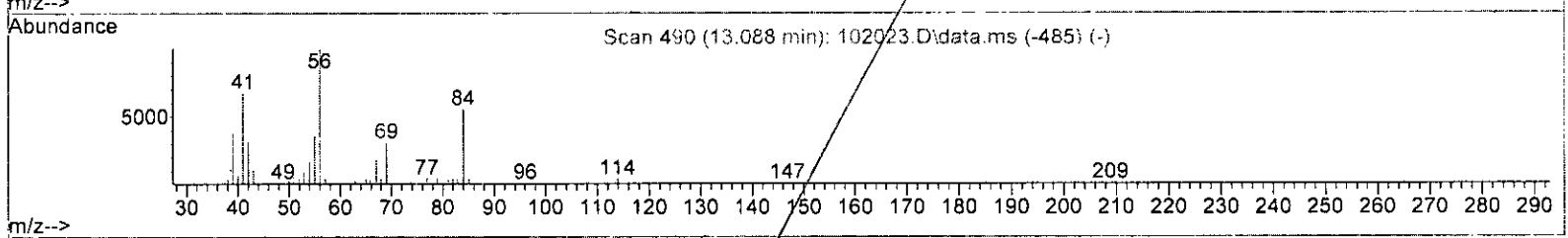
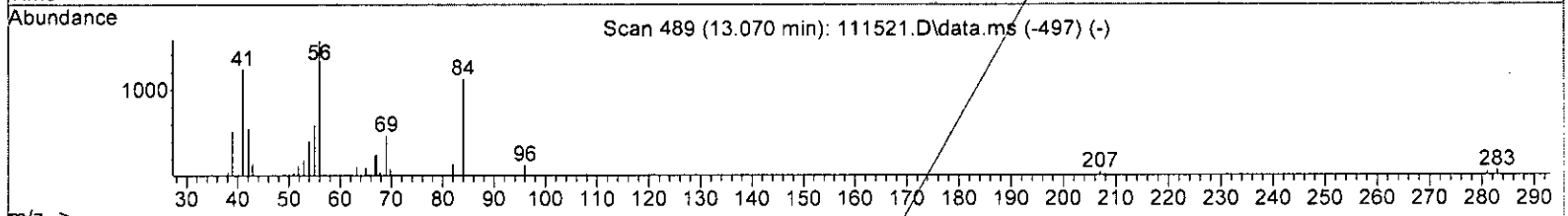
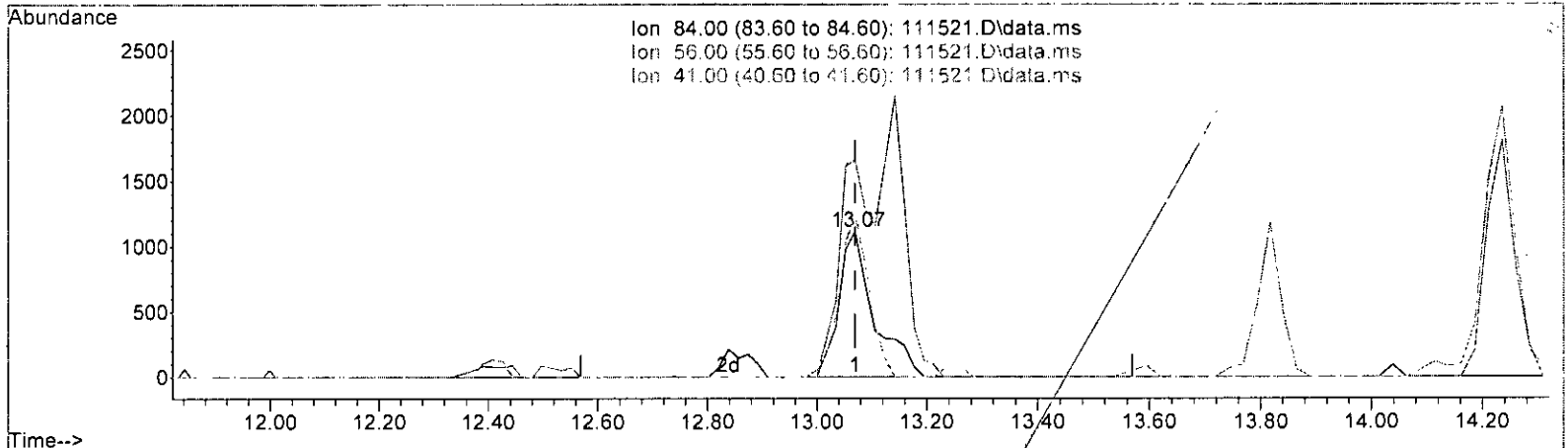
(35)	1,1,1-Trichloroethane (TMP)	
11.825min (+ 0.000)	0.472 ppbv m	
response	9916	
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	66.45
61.00	49.30	50.16
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(38) Cyclohexane (TMP)

13.070min (+ 0.000) 0.579 ppbv

response 4967

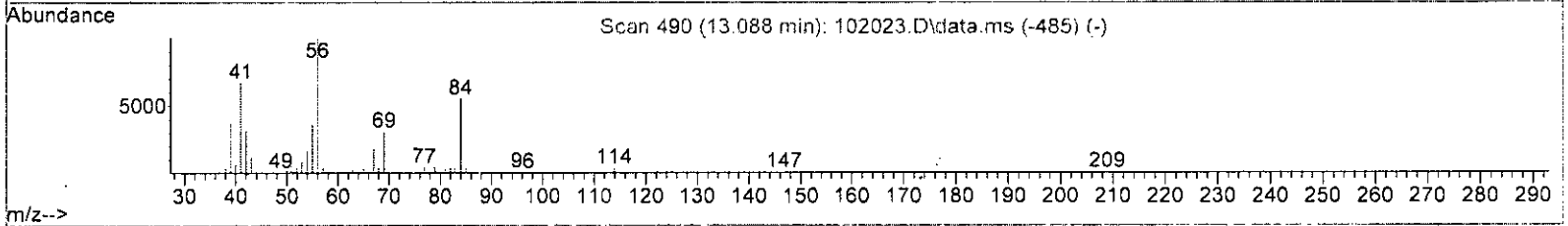
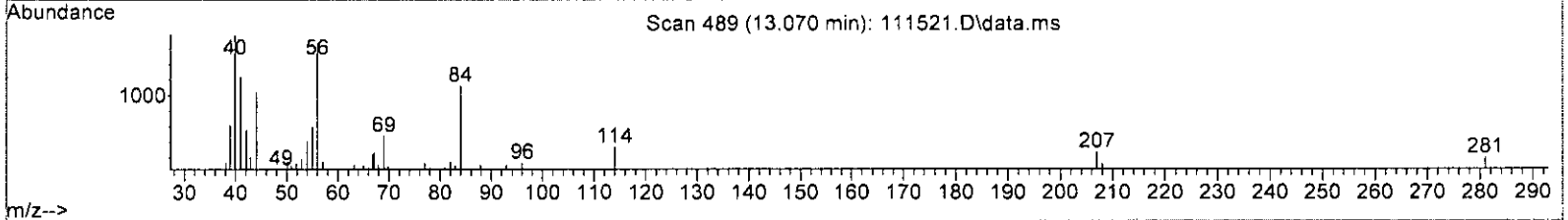
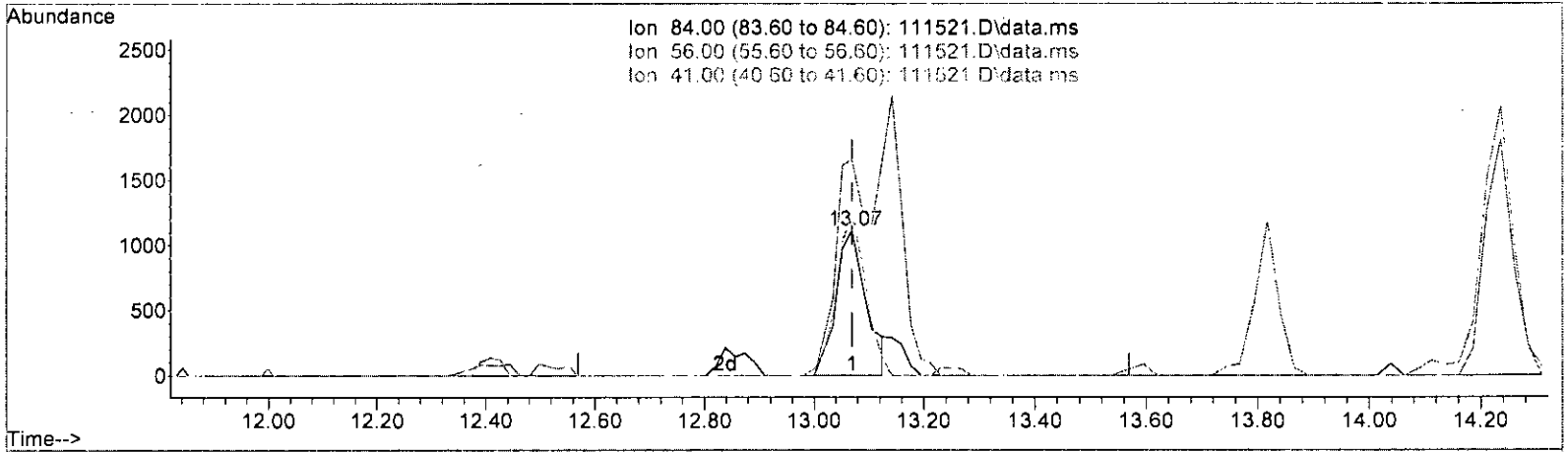
Ion	Exp%	Act%
84.00	100.00	100.00
56.00	174.40	149.15
41.00	107.20	109.96
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(38) Cyclohexane (TMP)

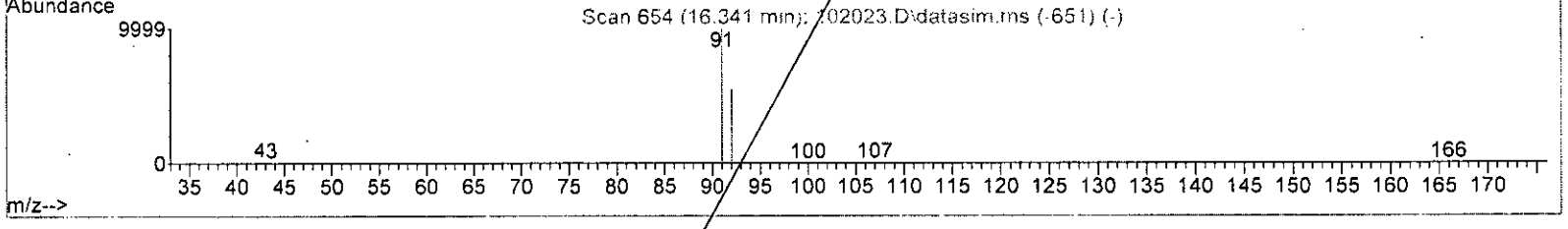
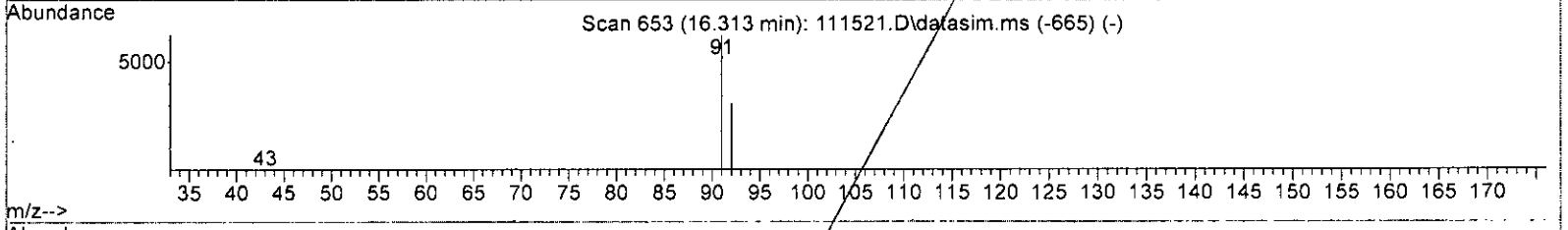
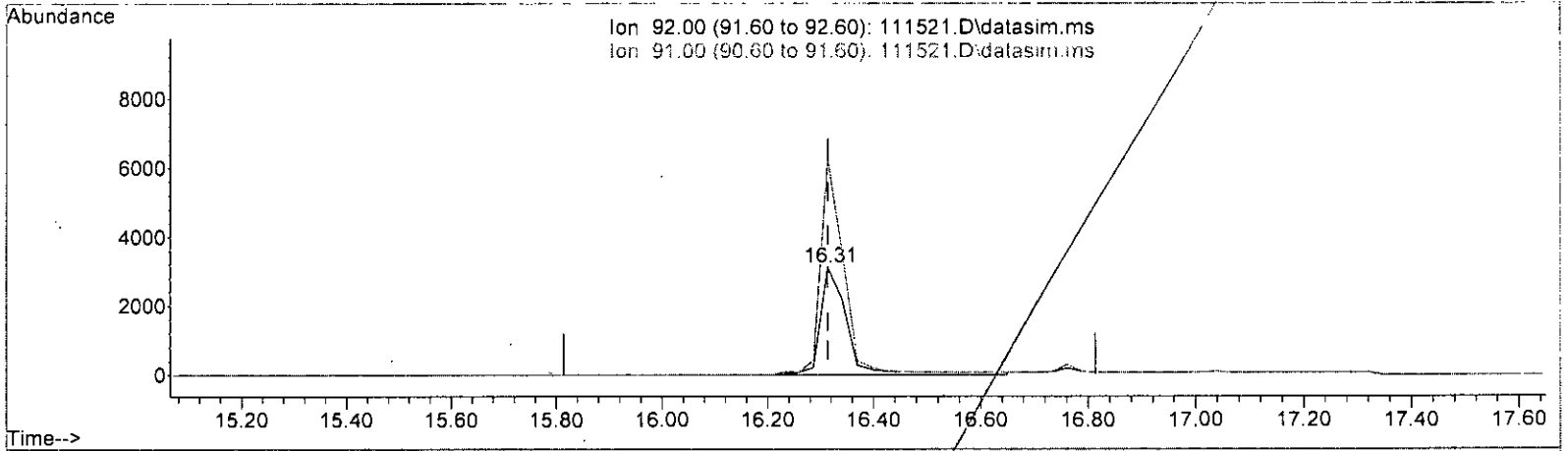
13.070min (+ 0.000) 0.503 ppbv m

response	4321	
Ion	Exp%	Act%
84.00	100.00	100.00
56.00	174.40	149.15
41.00	107.20	109.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

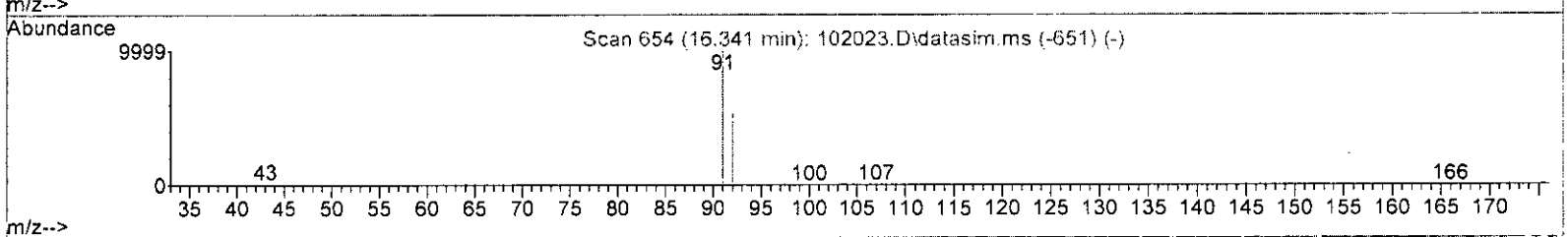
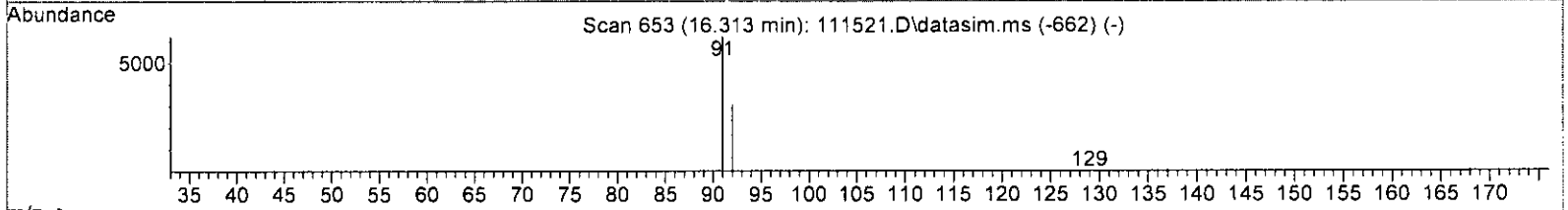
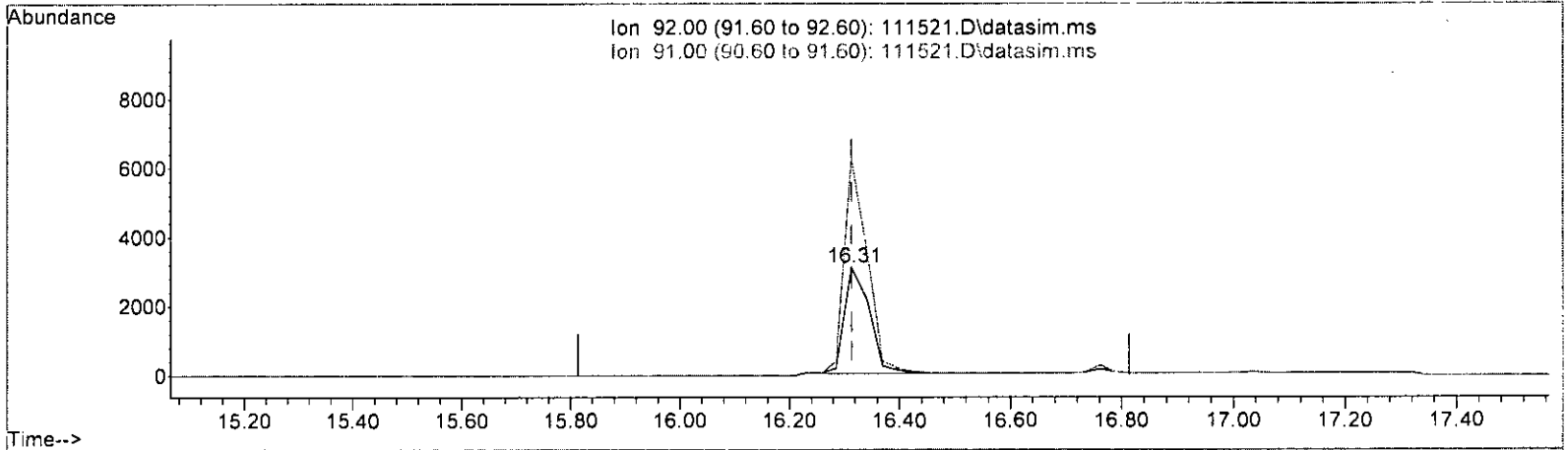
(50) Toluene (TMP)		
16.313min (-0.001)	0.556 ppbv	
response	11107	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	200.77
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

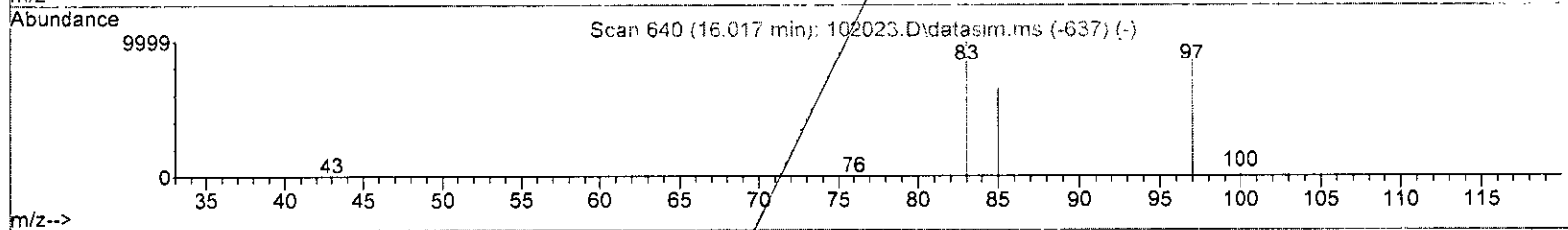
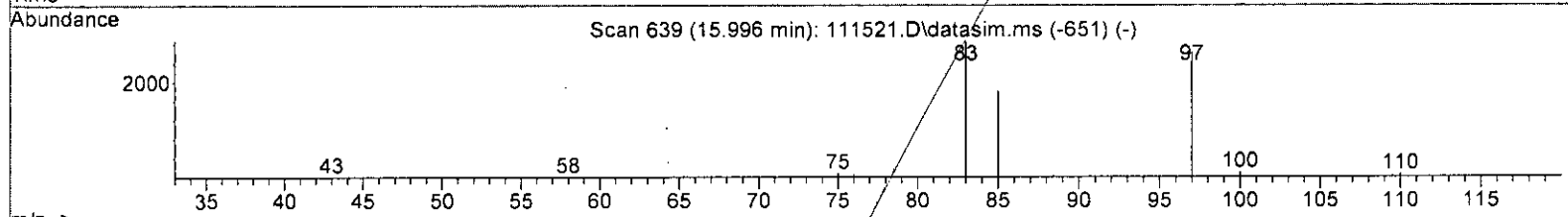
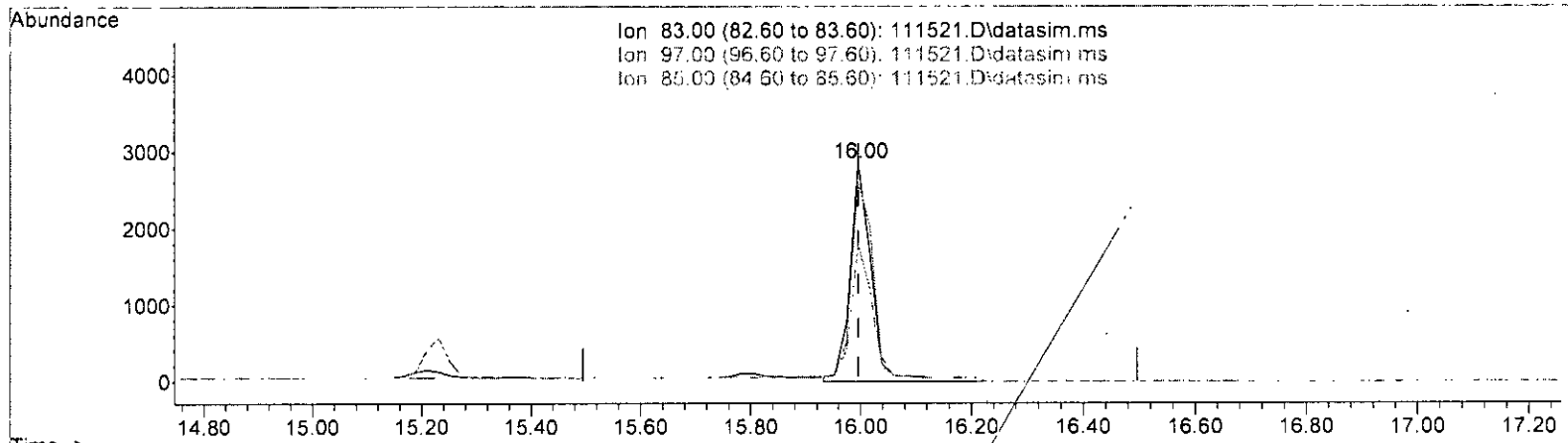
(50) Toluene (TMP)			
16.313min	(-0.001)	0.489 ppbv	m
response	9760		
Ion	Exp%	Act%	
92.00	100.00	100.00	
91.00	204.60	200.77	
0.00	0.00	0.00	
0.00	0.00	0.00	

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

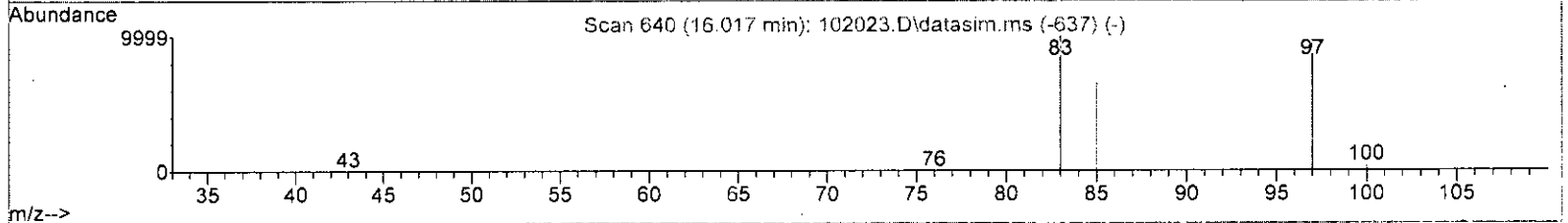
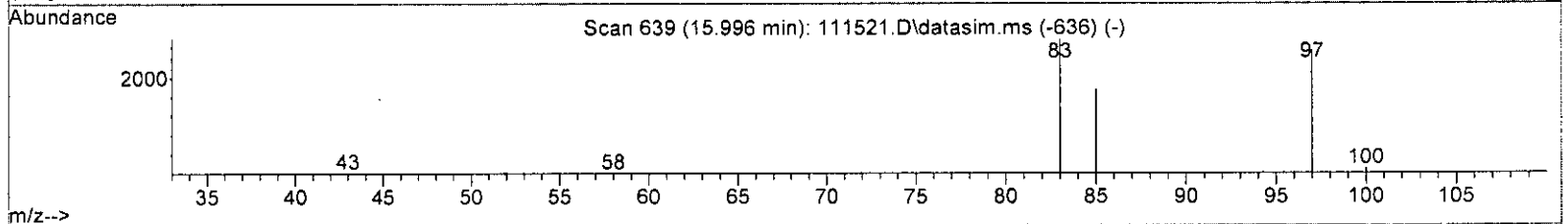
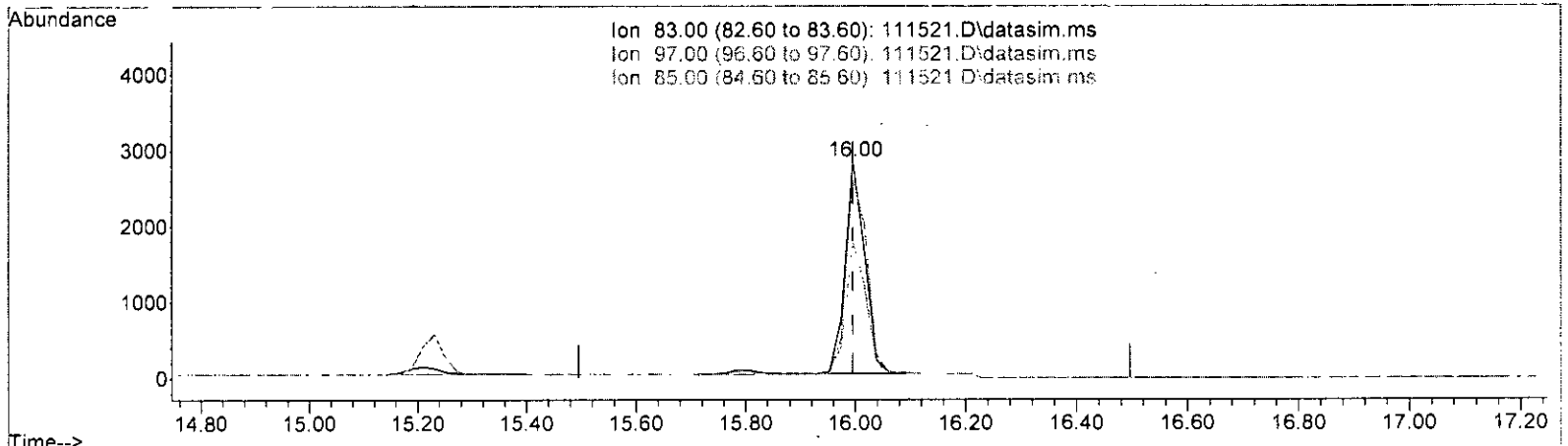
(51) 1,1,2-Trichloroethane (TMP)		
15.996min (-0.000)	0.533 ppbv	
response	7961	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	91.39
85.00	60.50	62.89
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

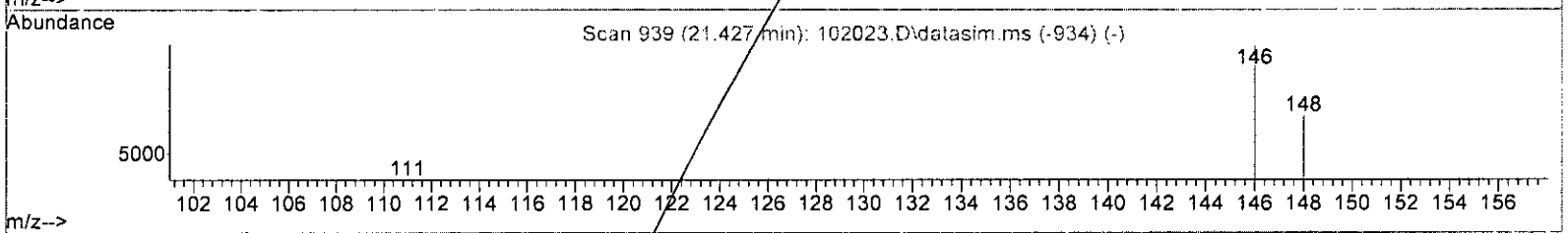
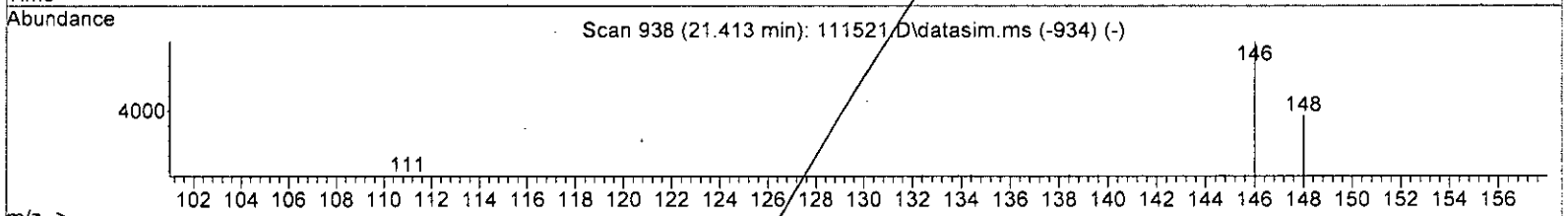
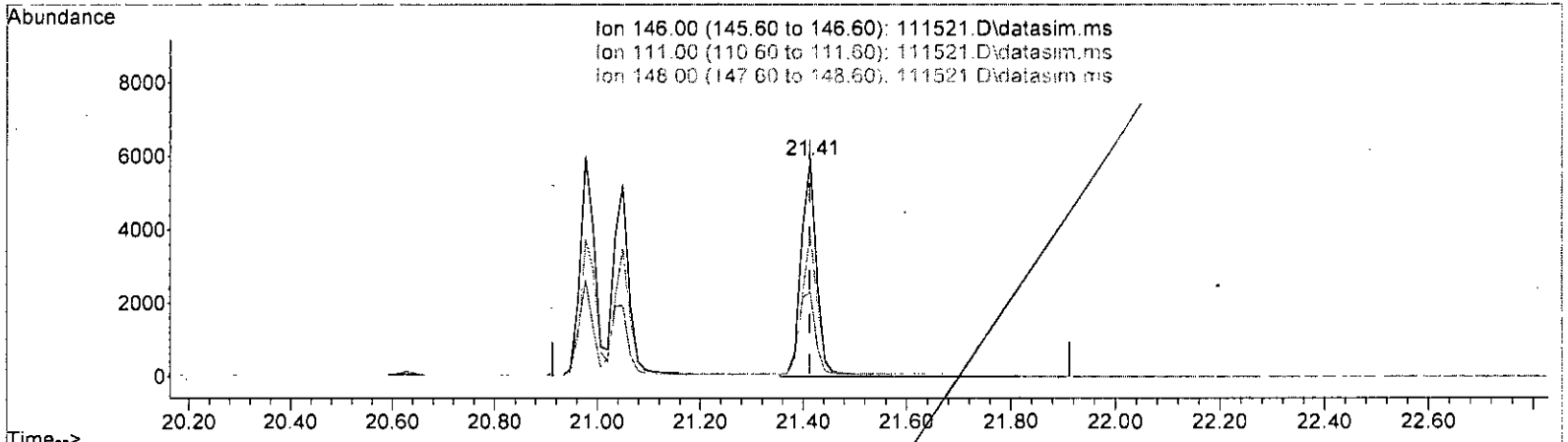
(51)	1,1,2-Trichloroethane (TMP)		
15.996min	(-0.000)	0.459	ppbv m
response	6878		
Ion	Exp%	Act%	
83.00	100.00	100.00	
97.00	81.80	91.39	
85.00	60.50	62.89	
0.00	0.00	0.00	

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(75) 1,2-Dichlorobenzene (TMP)

21.413min ( 0.000) 0.517 ppbv

response	13096	
Ion	Exp%	Act%
146.00	100.00	100.00
111.00	42.90	39.23
148.00	63.20	66.49
0.00	0.00	0.00

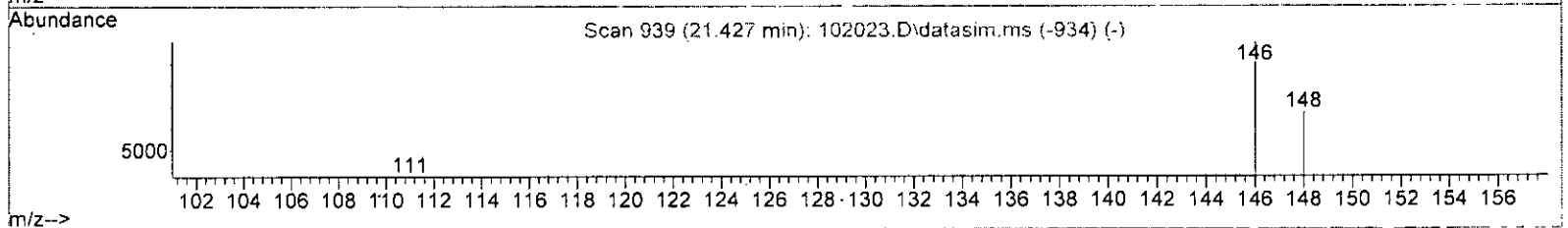
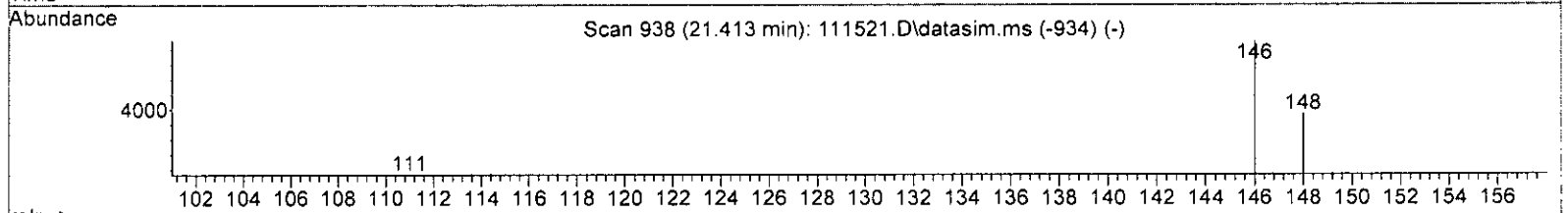
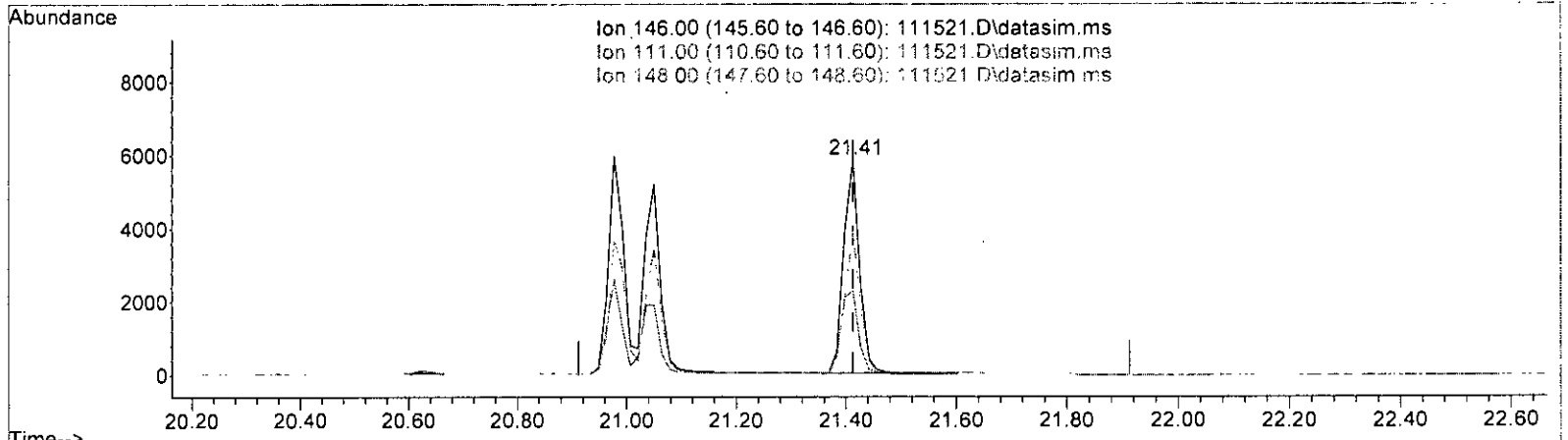
*Handwritten signature: b/alek*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: TO15DC.M



TIC: 111521.D\data.ms

(75) 1,2-Dichlorobenzene (TMP)

21.413min ( 0.000) 0.468 ppbv m

response	11857
Ion	Exp% Act%
146.00	100.00 100.00
111.00	42.90 39.23
148.00	63.20 66.49
0.00	0.00 0.00

*Handwritten signature*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.88	128	62780	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	282561	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	247110	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	167120	9.759	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	97.60%	
Target Compounds						
						Qvalue
2) Propene	3.41	41	4242	0.427	ppbv	76
3) Dichlorodifluoromethane	3.49	85	12088	0.467	ppbv	95
4] Chloromethane	3.73	50	6232m	0.527	ppbv	
5) F-114	3.84	85	13815	0.522	ppbv	90
6] Vinyl chloride	4.05	62	5341	0.460	ppbv	100
7] 1,3-Butadiene	4.25	54	3388	0.444	ppbv #	88
8) Butane	4.36	43	6502	0.474	ppbv #	80
9) Bromomethane	4.60	94	5827	0.502	ppbv	97
10] Chloroethane	4.84	64	2091m	0.509	ppbv	
11] Vinyl bromide	5.30	106	4701m	0.465	ppbv	
12) Ethanol	4.96	45	2279	0.547	ppbv	84
13] Acrolein	5.38	56	2135m	0.467	ppbv	
14) Pentane	6.25	43	7908	0.512	ppbv	95
15) Trichlorofluoromethane	5.82	101	14988	0.499	ppbv	89
16) Acetone	5.57	58	2857	0.641	ppbv #	40
17) 2-Propanol	5.78	45	9520	0.490	ppbv	89
18] 1,1-Dichloroethene	6.63	96	4794	0.464	ppbv	95
19] trans-1,2-Dichloroethene	8.07	96	4787	0.477	ppbv	99
20) Methylene chloride	6.78	84	4617	0.497	ppbv	93
21) t-Butyl alcohol (TBA)	6.57	59	8061	0.481	ppbv #	75
22) 3-Chloropropene	6.94	41	5877	0.455	ppbv #	78
23) CFC-113	7.15	101	10901	0.500	ppbv	96
24) Carbon disulfide	7.23	76	14652	0.452	ppbv	90
25) Methyl t-butyl ether (...)	8.43	73	11016	0.511	ppbv	85
26) Vinyl acetate	8.54	43	9209m	0.386	ppbv	
27] 1,1-Dichloroethane	8.36	63	9817	0.468	ppbv	100
28] cis-1,2-Dichloroethene	9.62	96	4957	0.467	ppbv	88
29) Hexane	10.01	57	5959	0.459	ppbv	99
30] Chloroform	10.08	83	11798	0.479	ppbv	96
31) Ethyl acetate	9.92	43	10717m	0.451	ppbv	
32) Tetrahydrofuran	10.76	42	5217	0.459	ppbv	94
33) 2-Butanone (MEK)	8.88	72	1917	0.493	ppbv #	50
34] 1,2-Dichloroethane (EDC)	11.34	62	7997	0.489	ppbv	98
35] 1,1,1-Trichloroethane	11.83	97	9916m	0.472	ppbv	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37] Benzene	12.61	78	16358	0.444	ppbv	96
38) Cyclohexane	13.07	84	4321m	0.503	ppbv	
40] 1,2-Dichloropropane	13.80	63	7586	0.496	ppbv	99

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

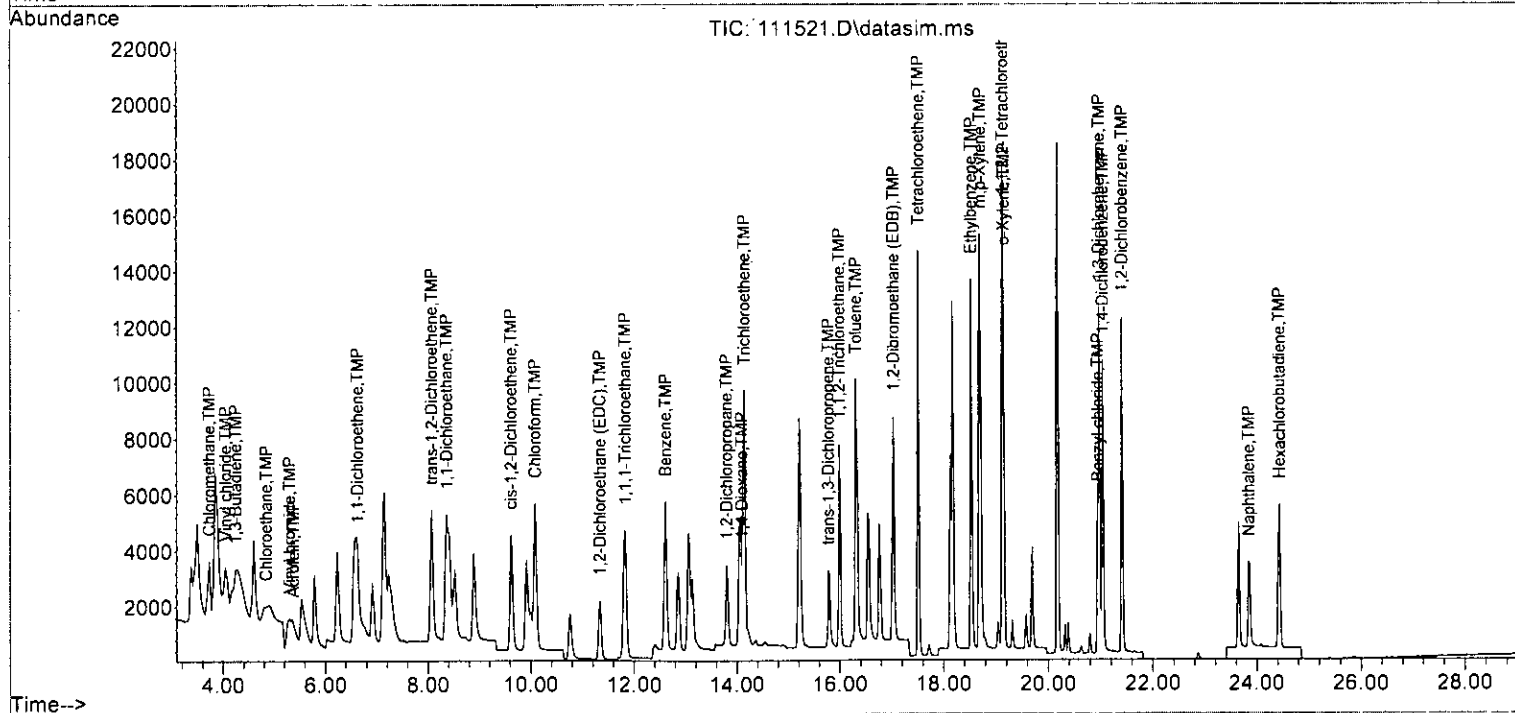
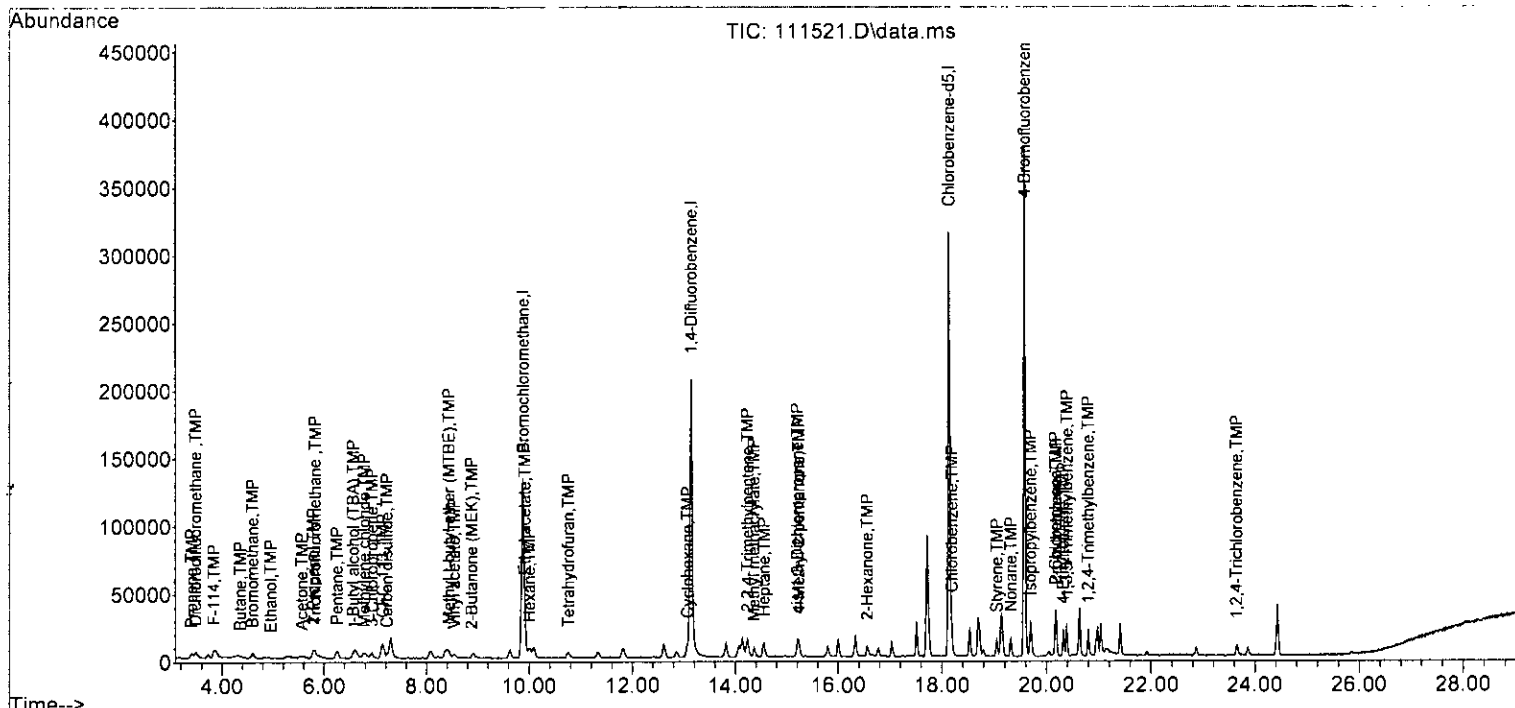
Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T01SDC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	3307	0.508	ppbv	97
42) 2,2,4-Trimethylpentane	14.24	57	23406	0.518	ppbv #	89
43) Methyl methacrylate	14.36	41	6480	0.473	ppbv	93
44) Heptane	14.56	43	8800	0.469	ppbv	94
45) Bromodichloromethane	0.00		0	N.D.	d	
46] Trichloroethene	14.14	95	8035	0.479	ppbv	96
47) cis-1,3-Dichloropropene	15.20	75	8156	0.482	ppbv	94
48) 4-Methyl-2-pentanone	15.23	100	530	0.424	ppbv #	48
49] trans-1,3-Dichloropropene	15.78	75	7021	0.441	ppbv	83
50] Toluene	16.31	92	9760m	0.489	ppbv	
51] 1,1,2-Trichloroethane	16.00	83	6878m	0.459	ppbv	
52) 2-Hexanone	16.56	43	10310	0.431	ppbv	96
53] Tetrachloroethene	17.52	164	7301	0.528	ppbv	90
54) Dibromochloromethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	11473	0.521	ppbv	96
57) Chlorobenzene	18.19	112	14186	0.521	ppbv	96
58] Ethylbenzene	18.53	91	20591	0.457	ppbv	97
59] 1,1,2,2-Tetrachloroethane	19.13	83	15858	0.471	ppbv	93
60) Nonane	19.32	43	8158	0.337	ppbv #	94
61) Isopropylbenzene	19.70	105	19999	0.452	ppbv	97
62) 2-Chlorotoluene	20.17	126	4873	0.440	ppbv	78
63) Propylbenzene	20.19	91	35474	0.436	ppbv	98
64) 4-Ethyltoluene	20.32	105	14983	0.376	ppbv	99
65] m,p-Xylene	18.70	106	13752	0.879	ppbv	95
66] o-Xylene	19.15	106	6766	0.445	ppbv	99
67) Styrene	19.05	104	9668	0.478	ppbv	94
68) Bromoform	0.00		0	N.D.	d	
70] Benzyl chloride	20.95	91	8022	0.289	ppbv	97
71) 1,3,5-Trimethylbenzene	20.39	105	14022	0.391	ppbv	88
72) 1,2,4-Trimethylbenzene	20.80	105	11406	0.407	ppbv	98
73] 1,3-Dichlorobenzene	20.98	146	11791	0.472	ppbv	99
74] 1,4-Dichlorobenzene	21.05	146	10042	0.429	ppbv	97
75] 1,2-Dichlorobenzene	21.41	146	11857m	0.468	ppbv	
76) 1,2,4-Trichlorobenzene	23.64	180	4328	0.305	ppbv	99
77] Naphthalene	23.84	128	8380	0.490	ppbv	97
78] Hexachlorobutadiene	24.44	225	12265	0.475	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	0.500	0.427	14.6	100	0.00
3 TMP Dichlorodifluoromethane	0.500	0.467	6.6	107	0.00
4 TMP Chloromethane	0.500	0.527	-5.4	101	0.00
5 TMP F-114	0.500	0.522	-4.4	101	-0.04
6 TMP Vinyl chloride	0.500	0.460	8.0	100	-0.04
7 TMP 1,3-Butadiene	0.500	0.444	11.2	101	-0.04
8 TMP Butane	0.500	0.474	5.2	100	0.04
9 TMP Bromomethane	0.500	0.502	-0.4	100	0.00
10 TMP Chloroethane	0.500	0.509	-1.8	105	0.00
11 TMP Vinyl bromide	0.500	0.465	7.0	91	-0.02
12 TMP Ethanol	0.500	0.547	-9.4	100	0.00
13 TMP Acrolein	0.500	0.467	6.6	98	-0.04
14 TMP Pentane	0.500	0.512	-2.4	100	0.00
15 TMP Trichlorofluoromethane	0.500	0.499	0.2	100	-0.02
16 TMP Acetone	0.500	0.641	-28.2	100	0.00
17 TMP 2-Propanol	0.500	0.490	2.0	100	0.00
18 TMP 1,1-Dichloroethene	0.500	0.464	7.2	100	0.00
19 TMP trans-1,2-Dichloroethene	0.500	0.477	4.6	100	-0.03
20 TMP Methylene chloride	0.500	0.497	0.6	100	-0.03
21 TMP t-Butyl alcohol (TBA)	0.500	0.481	3.8	100	0.00
22 TMP 3-Chloropropene	0.500	0.455	9.0	100	0.00
23 TMP CFC-113	0.500	0.500	0.0	100	0.00
24 TMP Carbon disulfide	0.500	0.452	9.6	100	-0.05
25 TMP Methyl t-butyl ether (MTBE)	0.500	0.511	-2.2	100	0.00
26 TMP Vinyl acetate	0.500	0.386	22.8	100	0.00
27 TMP 1,1-Dichloroethane	0.500	0.468	6.4	100	0.00
28 TMP cis-1,2-Dichloroethene	0.500	0.467	6.6	100	-0.02
29 TMP Hexane	0.500	0.459	8.2	100	0.00
30 TMP Chloroform	0.500	0.479	4.2	100	-0.02
31 TMP Ethyl acetate	0.500	0.451	9.8	100	0.00
32 TMP Tetrahydrofuran	0.500	0.459	8.2	100	0.00
33 TMP 2-Butanone (MEK)	0.500	0.493	1.4	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	0.500	0.489	2.2	106	0.00
35 TMP 1,1,1-Trichloroethane	0.500	0.472	5.6	104	0.00
36 TMP Carbon tetrachloride	0.500	0.000	100.0#	0	-12.86#
37 TMP Benzene	0.500	0.444	11.2	100	0.00
38 TMP Cyclohexane	0.500	0.503	-0.6	108	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.500	0.496	0.8	104	0.00
41 TMP 1,4-Dioxane	0.500	0.508	-1.6	100	0.00
42 TMP 2,2,4-Trimethylpentane	0.500	0.518	-3.6	100	0.00
43 TMP Methyl methacrylate	0.500	0.473	5.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-1968  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	0.500	0.469	6.2	100	0.00
45 TMP Bromodichloromethane	0.500	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	0.500	0.479	4.2	100	0.00
47 TMP cis-1,3-Dichloropropene	0.500	0.482	3.6	100	0.00
48 TMP 4-Methyl-2-pentanone	0.500	0.424	15.2	100	0.00
49 TMP trans-1,3-Dichloropropene	0.500	0.441	11.8	100	0.00
50 TMP Toluene	0.500	0.489	2.2	102	0.00
51 TMP 1,1,2-Trichloroethane	0.500	0.459	8.2	99	0.00
52 TMP 2-Hexanone	0.500	0.431	13.8	100	0.00
53 TMP Tetrachloroethene	0.500	0.528	-5.6	100	0.00
54 TMP Dibromochloromethane	0.500	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.500	0.521	-4.2	108	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	0.500	0.521	-4.2	100	0.00
58 TMP Ethylbenzene	0.500	0.457	8.6	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.500	0.471	5.8	100	0.00
60 TMP Nonane	0.500	0.337	32.6#	100	0.02
61 TMP Isopropylbenzene	0.500	0.452	9.6	100	0.00
62 TMP 2-Chlorotoluene	0.500	0.440	12.0	100	0.00
63 TMP Propylbenzene	0.500	0.436	12.8	100	0.00
64 TMP 4-Ethyltoluene	0.500	0.376	24.8	100	0.00
65 TMP m,p-Xylene	1.000	0.879	12.1	100	0.00
66 TMP o-Xylene	0.500	0.445	11.0	100	0.00
67 TMP Styrene	0.500	0.478	4.4	100	0.00
68 TMP Bromoform	0.500	0.000	100.0#	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.759	2.4	100	0.00
70 TMP Benzyl chloride	0.500	0.289	42.2#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	0.500	0.391	21.8	100	0.00
72 TMP 1,2,4-Trimethylbenzene	0.500	0.407	18.6	100	0.00
73 TMP 1,3-Dichlorobenzene	0.500	0.472	5.6	100	0.00
74 TMP 1,4-Dichlorobenzene	0.500	0.429	14.2	100	0.00
75 TMP 1,2-Dichlorobenzene	0.500	0.468	6.4	102	0.00
76 TMP 1,2,4-Trichlorobenzene	0.500	0.305	39.0#	100	0.00
77 TMP Naphthalene	0.500	0.490	2.0	100	0.00
78 TMP Hexachlorobutadiene	0.500	0.475	5.0	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.351	13.2	100	0.00
3 TMP Dichlorodifluoromethane	4.123	3.851	6.6	107	0.00
4 TMP Chloromethane	1.882	1.985	-5.5	101	0.00
5 TMP F-114	4.217	4.401	-4.4	101	-0.04
6 TMP Vinyl chloride	1.851	1.701	8.1	100	-0.04
7 TMP 1,3-Butadiene	1.216	1.079	11.3	101	-0.04
8 TMP Butane	2.183	2.071	5.1	100	0.04
9 TMP Bromomethane	1.847	1.856	-0.5	100	0.00
10 TMP Chloroethane	0.655	0.666	-1.7	105	0.00
11 TMP Vinyl bromide	1.609	1.498	6.9	91	-0.02
12 TMP Ethanol	0.663	0.726	-9.5	100	0.00
13 TMP Acrolein	0.729	0.680	6.7	98	-0.04
14 TMP Pentane	2.461	2.519	-2.4	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.775	0.1	100	-0.02
16 TMP Acetone	0.710	0.910	-28.2	100	0.00
17 TMP 2-Propanol	3.096	3.033	2.0	100	0.00
18 TMP 1,1-Dichloroethene	1.645	1.527	7.2	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.525	4.6	100	-0.03
20 TMP Methylene chloride	1.479	1.471	0.5	100	-0.03
21 TMP t-Butyl alcohol (TBA)	2.668	2.568	3.7	100	0.00
22 TMP 3-Chloropropene	2.056	1.872	8.9	100	0.00
23 TMP CFC-113	3.469	3.473	-0.1	100	0.00
24 TMP Carbon disulfide	5.167	4.668	9.7	100	-0.05
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.509	-2.2	100	0.00
26 TMP Vinyl acetate	3.801	2.934	22.8	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.127	6.4	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.579	6.6	100	-0.02
29 TMP Hexane	2.068	1.898	8.2	100	0.00
30 TMP Chloroform	4.060	3.759	7.4	100	-0.02
31 TMP Ethyl acetate	3.789	3.414	9.9	100	0.00
32 TMP Tetrahydrofuran	1.809	1.662	8.1	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.611	1.3	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.548	5.2	106	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.159	5.5	104	0.00
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	5.211	8.4	100	0.00
38 TMP Cyclohexane	1.367	1.377	-0.7	108	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.537	0.7	104	0.00
41 TMP 1,4-Dioxane	0.230	0.234	-1.7	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.657	-3.7	100	0.00
43 TMP Methyl methacrylate	0.485	0.459	5.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.623	6.0	100	0.00
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.569	4.0	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.577	3.7	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.038	13.6	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.497	11.7	100	0.00
50 TMP Toluene	0.707	0.691	2.3	102	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.487	11.5	99	0.00
52 TMP 2-Hexanone	0.846	0.730	13.7	100	0.00
53 TMP Tetrachloroethene	0.490	0.517	-5.5	100	0.00
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.812	1.5	108	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.148	-4.3	100	0.00
58 TMP Ethylbenzene	1.968	1.667	15.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.283	8.0	100	0.00
60 TMP Nonane	0.981	0.660	32.7#	100	0.02
61 TMP Isopropylbenzene	1.792	1.619	9.7	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.394	12.1	100	0.00
63 TMP Propylbenzene	3.292	2.871	12.8	100	0.00
64 TMP 4-Ethyltoluene	1.611	1.213	24.7	100	0.00
65 TMP m,p-Xylene	0.633	0.557	12.0	100	0.00
66 TMP o-Xylene	0.615	0.548	10.9	100	0.00
67 TMP Styrene	0.819	0.782	4.5	100	0.00
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.676	2.5	100	0.00
70 TMP Benzyl chloride	0.987	0.649	34.2#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.135	21.7	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	0.923	26.0	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	0.954	5.7	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.813	14.1	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	0.960	6.3	102	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.350	44.1#	100	0.00
77 TMP Naphthalene	1.132	0.678	40.1#	100	0.00
78 TMP Hexachlorobutadiene	1.045	0.993	5.0	100	0.00

(#) = Out of Range

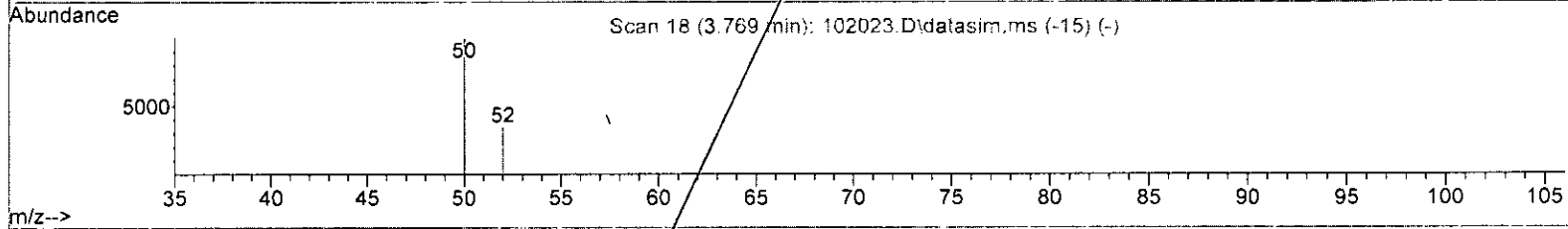
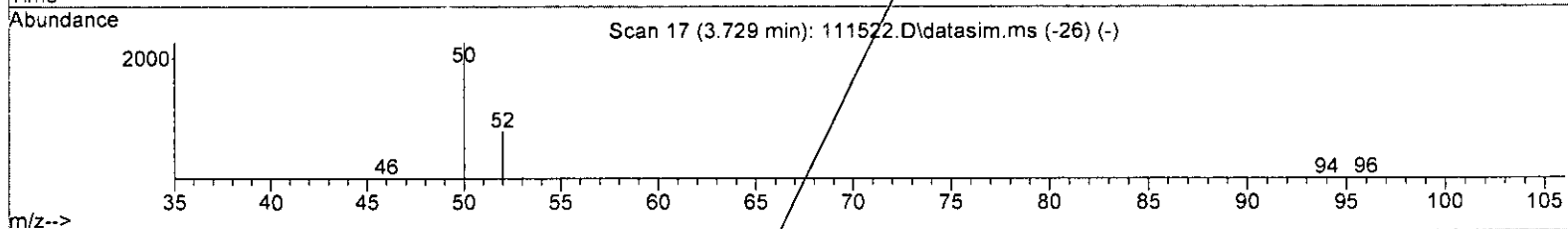
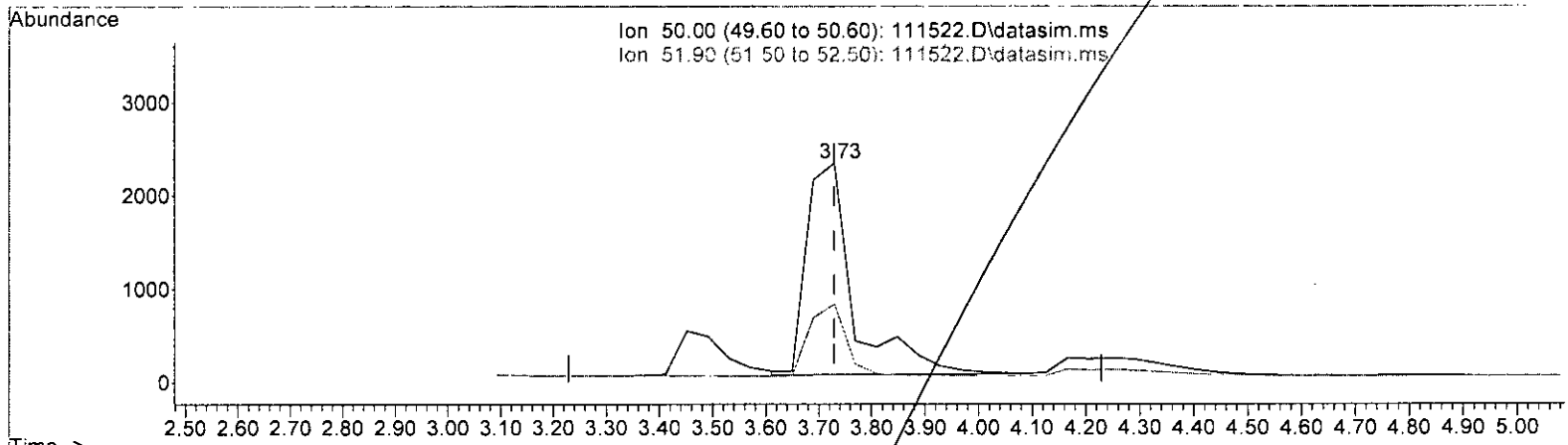
SPCC's out = 3 CCC's out = 0



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

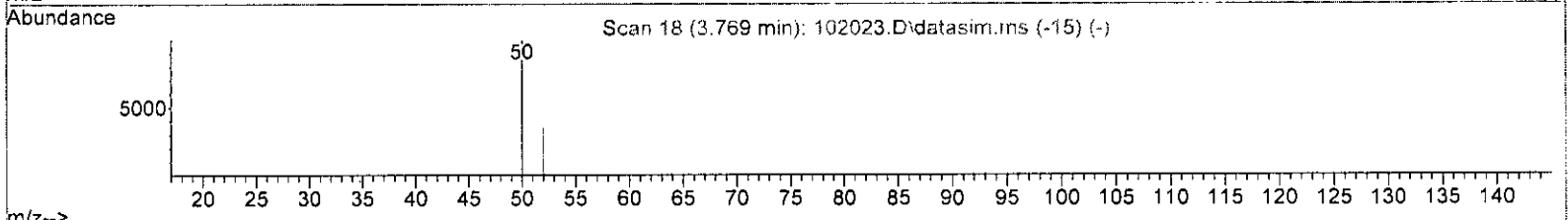
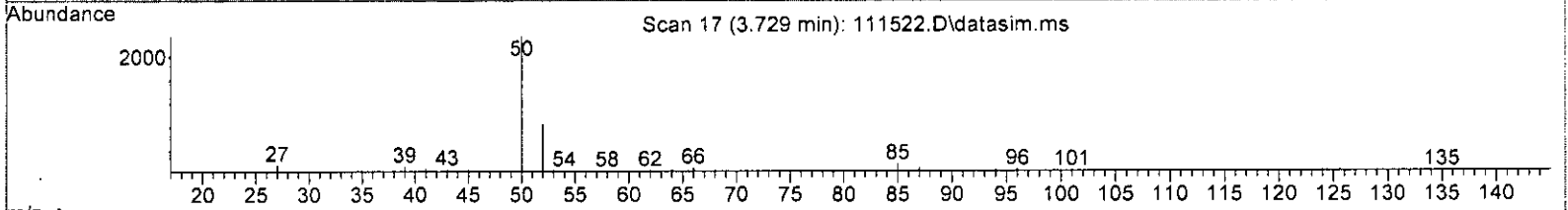
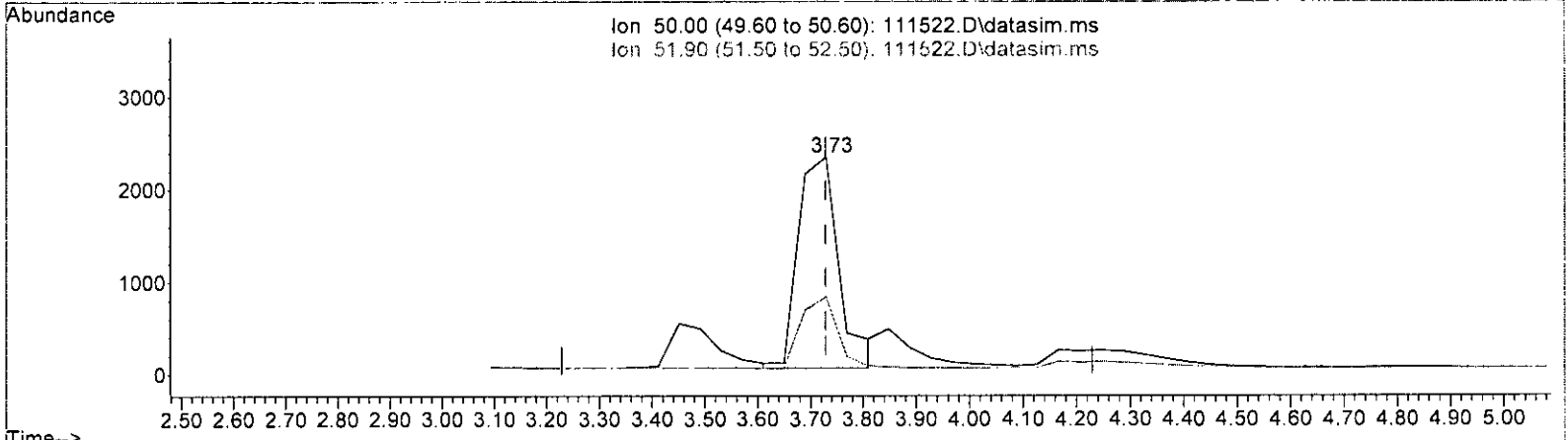
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	1.190 ppbv	
response	13862	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	34.16
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

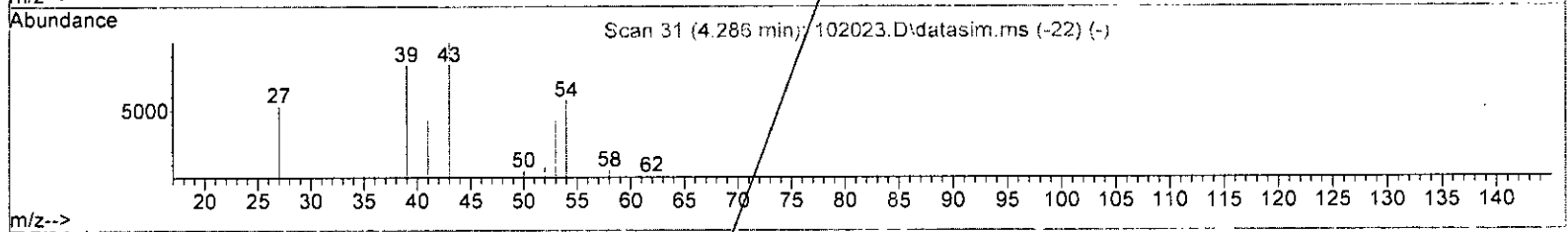
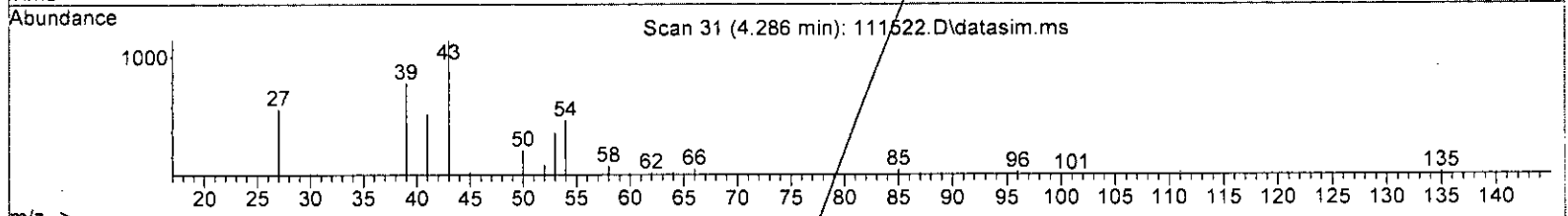
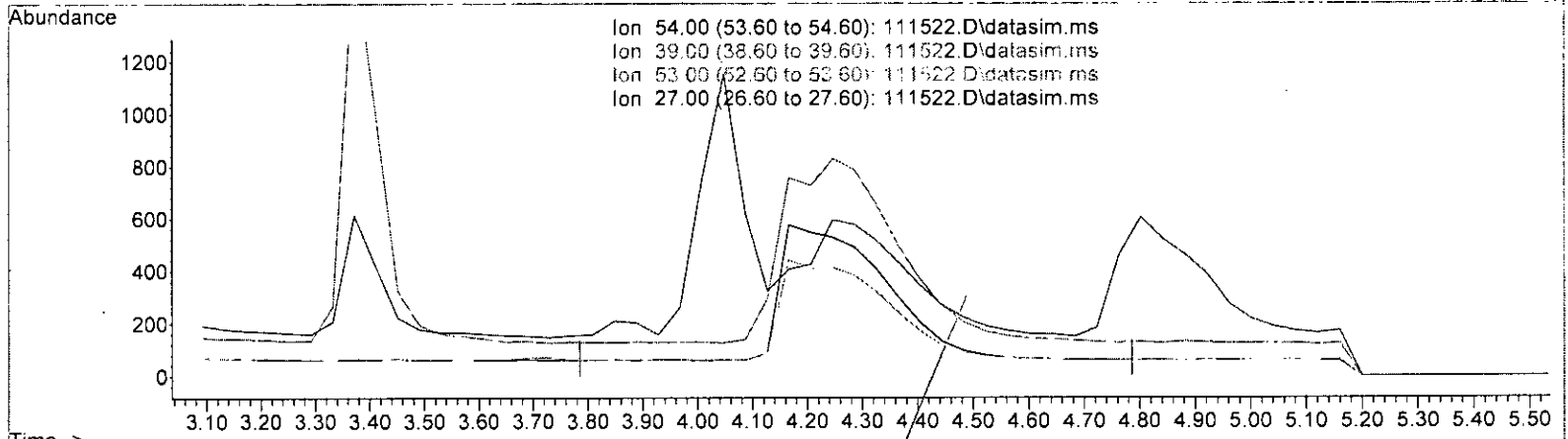
(4) Chloromethane (TMP)			
Retention Time	Abundance	Concentration	Response
3.729min (+ 0.000)	12248	1.051 ppbv m	12248
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	35.74	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(7) 1,3-Butadiene (TMP)

4.286min (-4.286) 0.000 ppbv

response 0

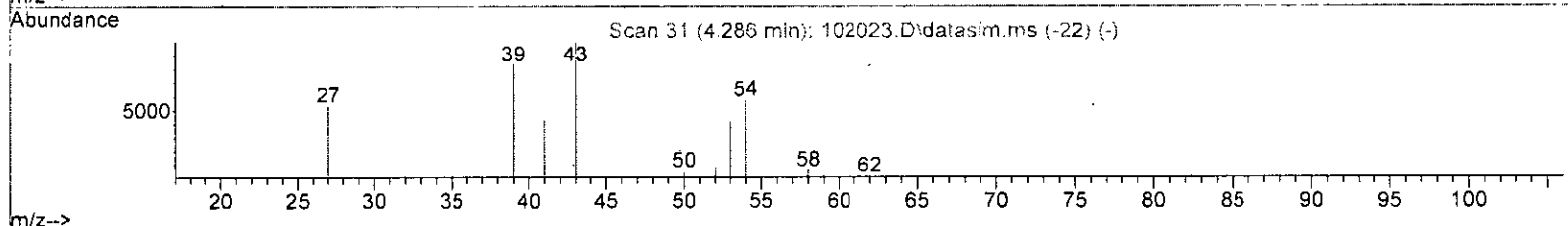
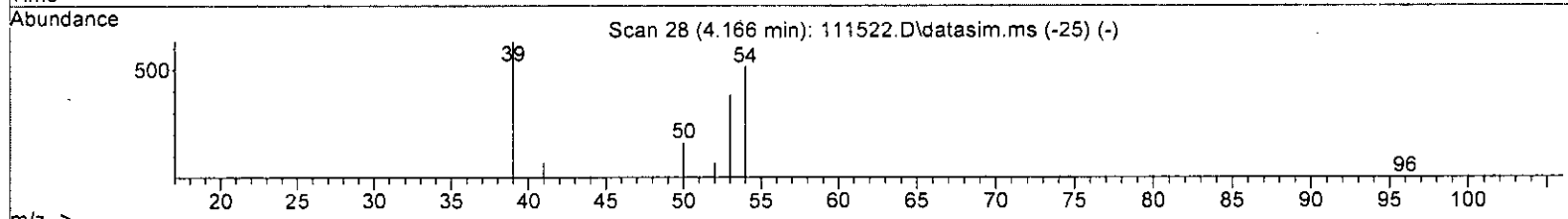
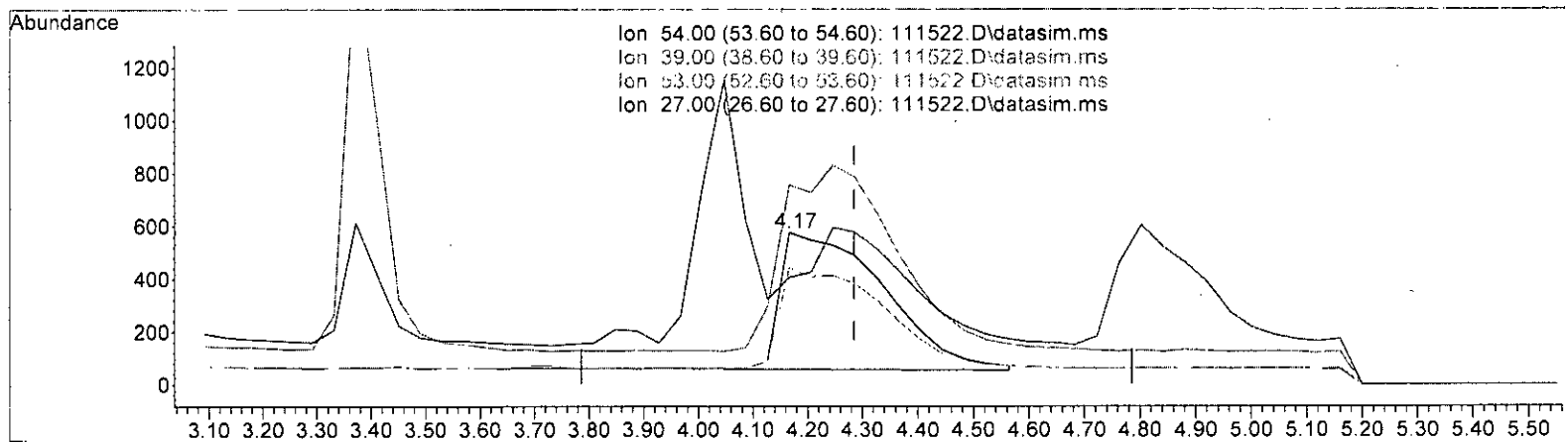
Ion	Exp%	Act%
54.00	100.00	0.00
39.00	127.60	0.00#
53.00	72.40	0.00#
27.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(7) 1,3-Butadiene (TMP)  
 4.166min (-0.120) 0.903 ppbv m

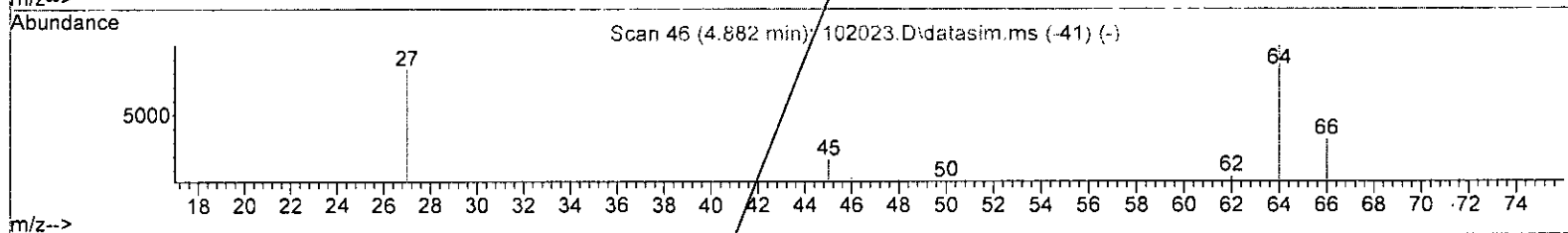
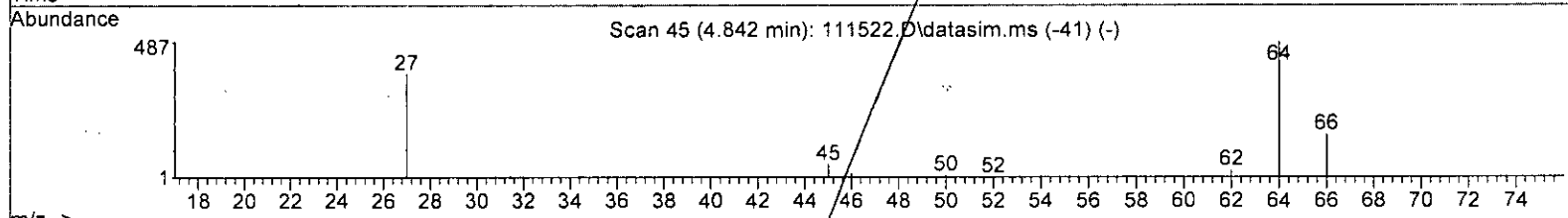
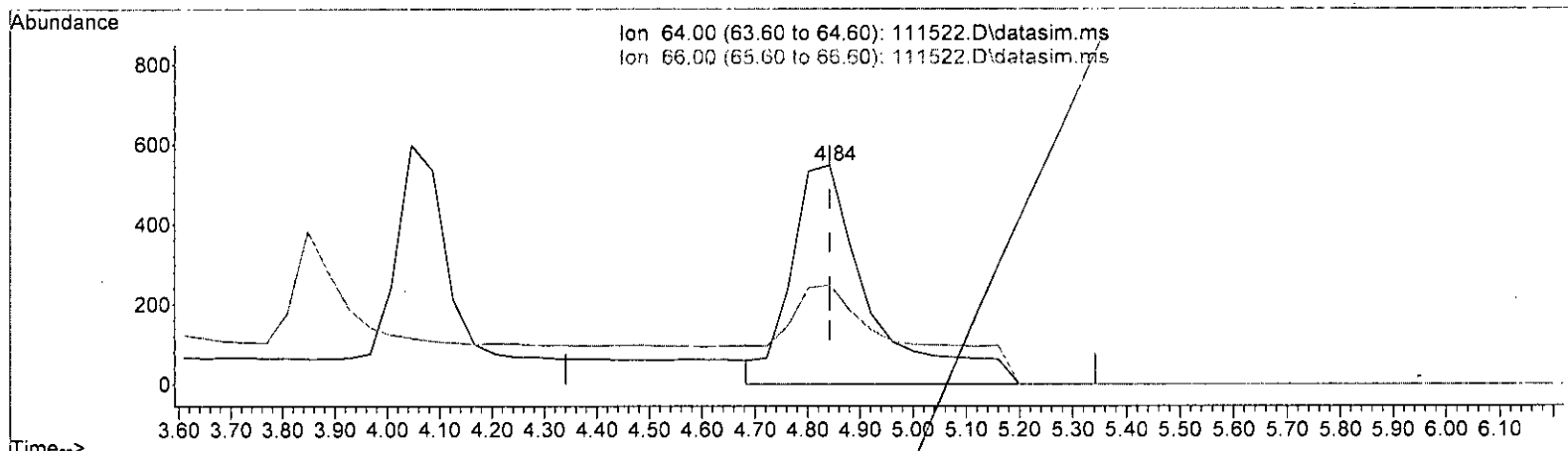
response	6793	
Ion	Exp%	Act%
54.00	100.00	100.00
39.00	127.60	131.48
53.00	72.40	76.70
27.00	0.00	70.61#

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

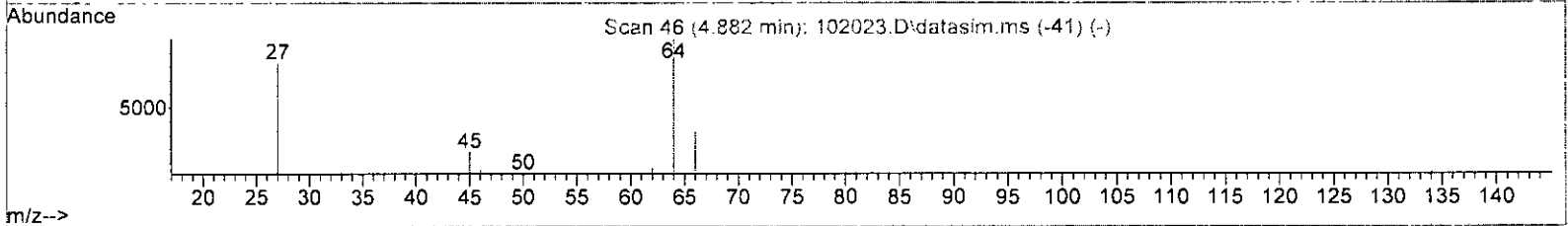
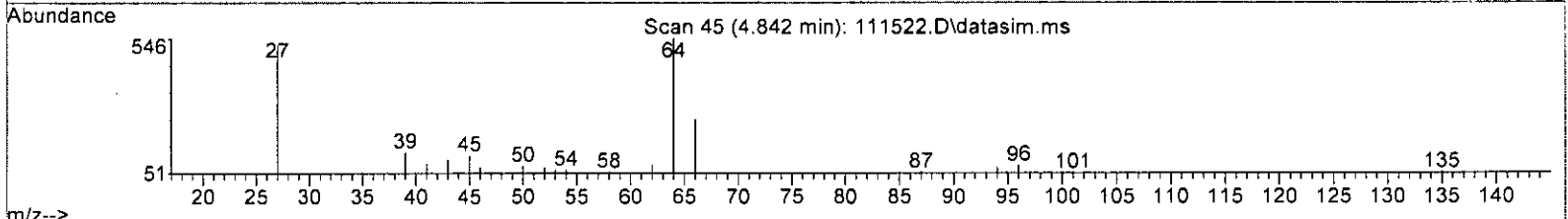
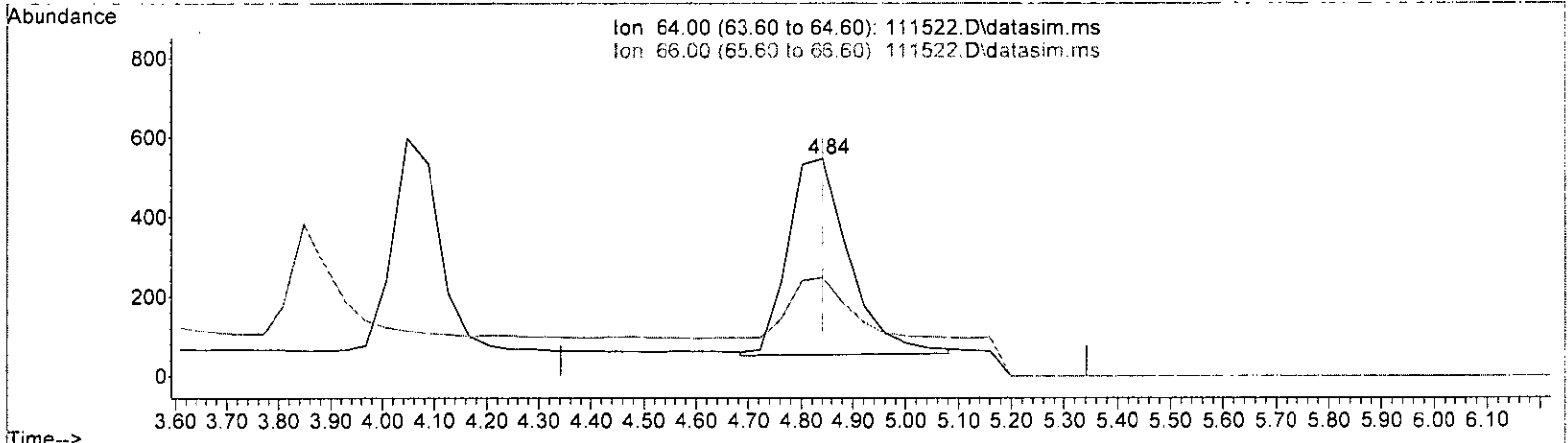
(10) Chloroethane (TMP)		
4.842min (-0.000)	1.336 ppbv	
response	5411	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	45.16
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(10) Chloroethane (TMP)  
 4.842min (-0.000) 0.997 ppbv m

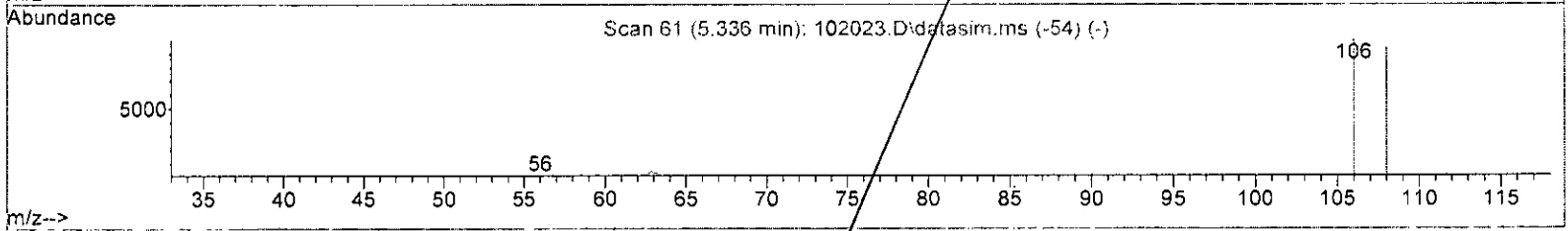
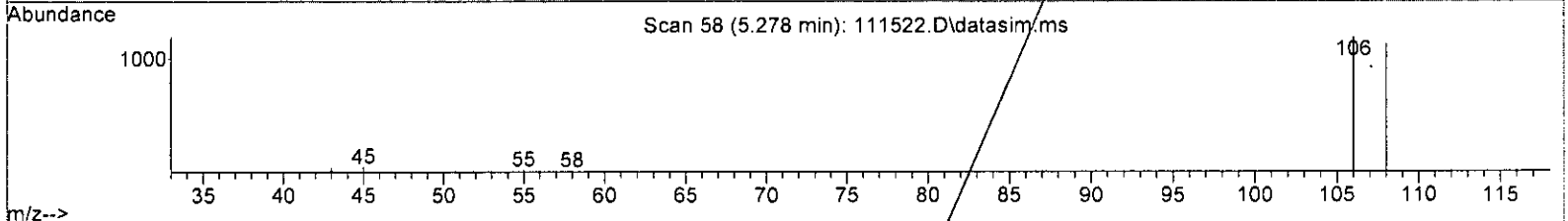
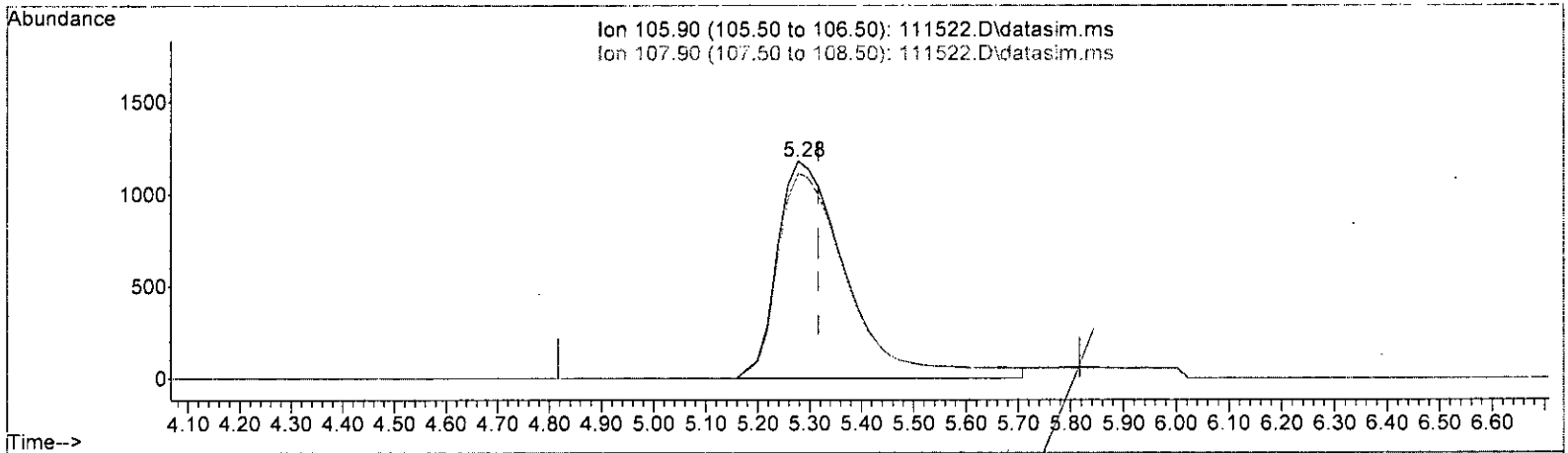
response	4039
Ion	Exp% Act%
64.00	100.00 100.00
66.00	31.80 45.16
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(11) Vinyl bromide (TMP)

5.278min (-0.039) 1.183 ppbv

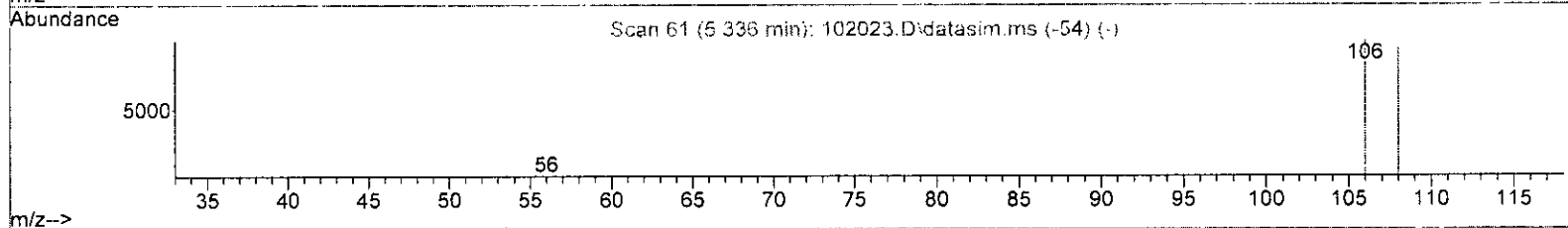
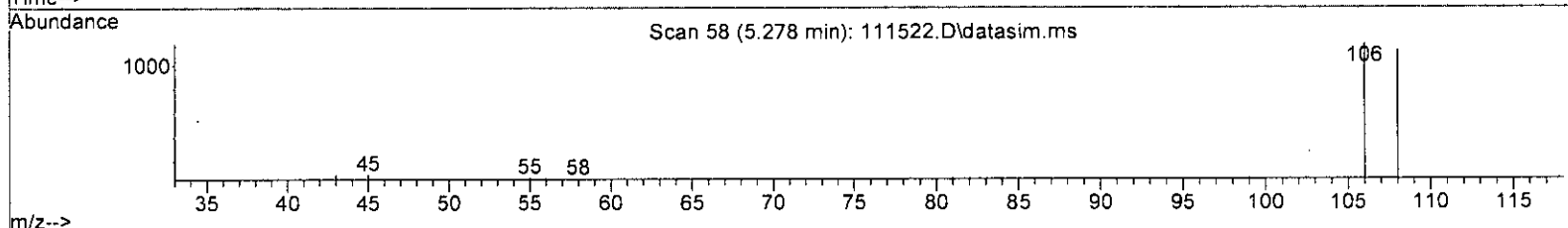
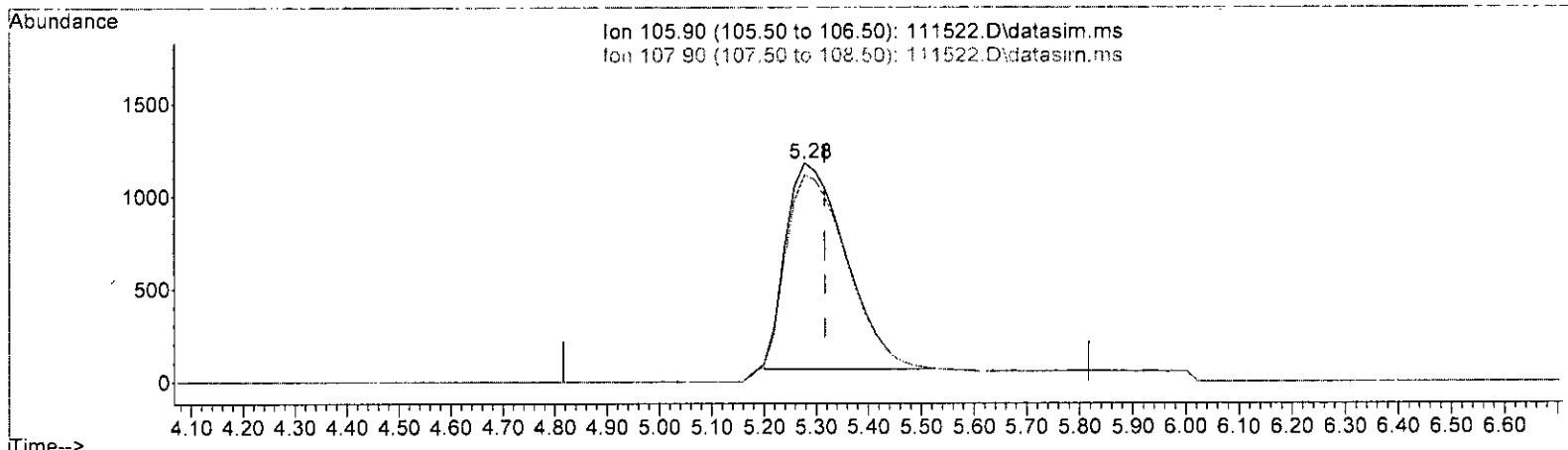
response	11781	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	95.81
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(11) Vinyl bromide (TMP)

5.278min (-0.039) 0.894 ppbv m

response	8908
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 126.71#
0.00	0.00 0.00
0.00	0.00 0.00

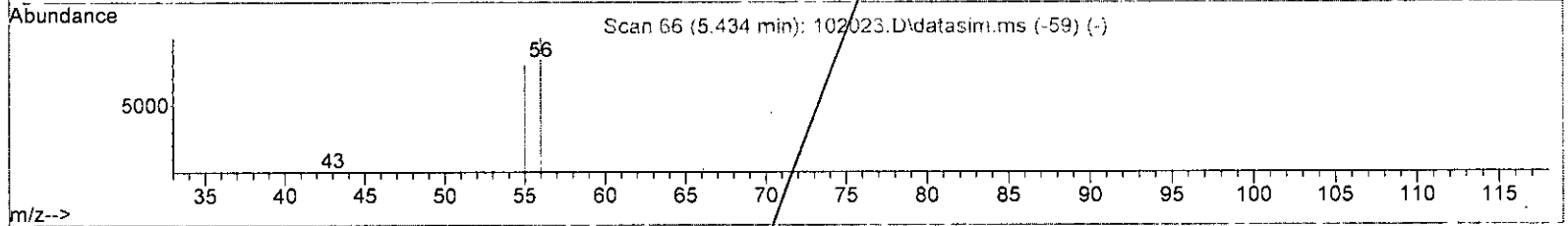
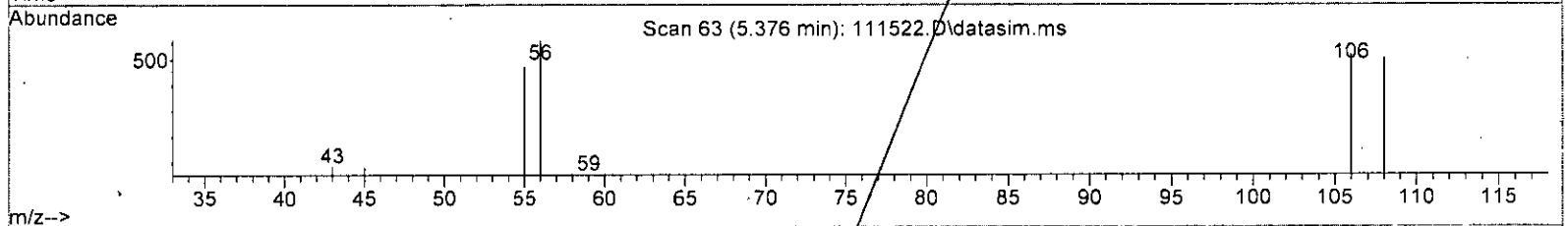
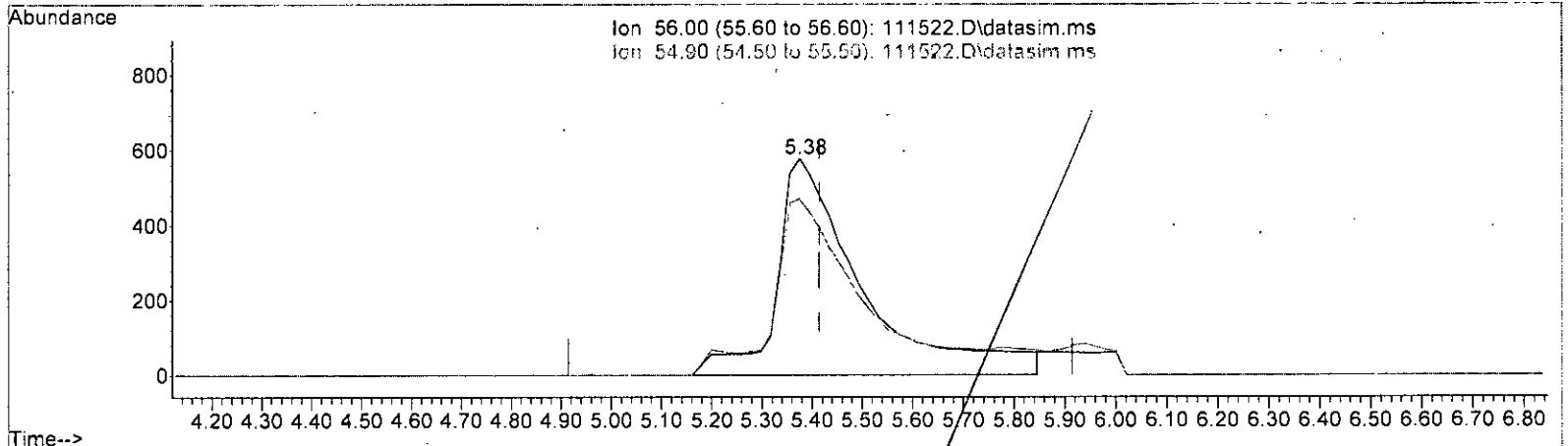
*W/ check*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(13) Acrolein (TMP)

5.376min (-0.039) 1.588 ppbv

response 7163

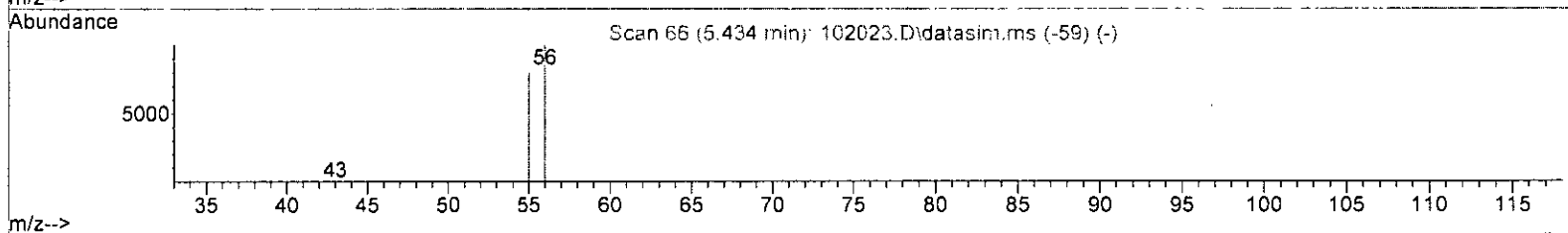
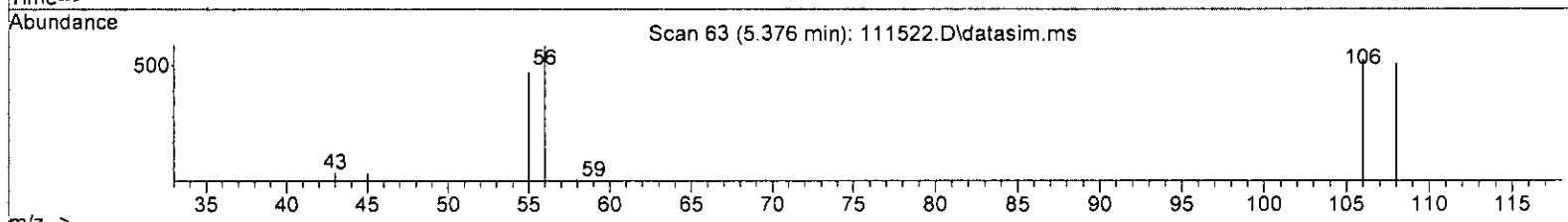
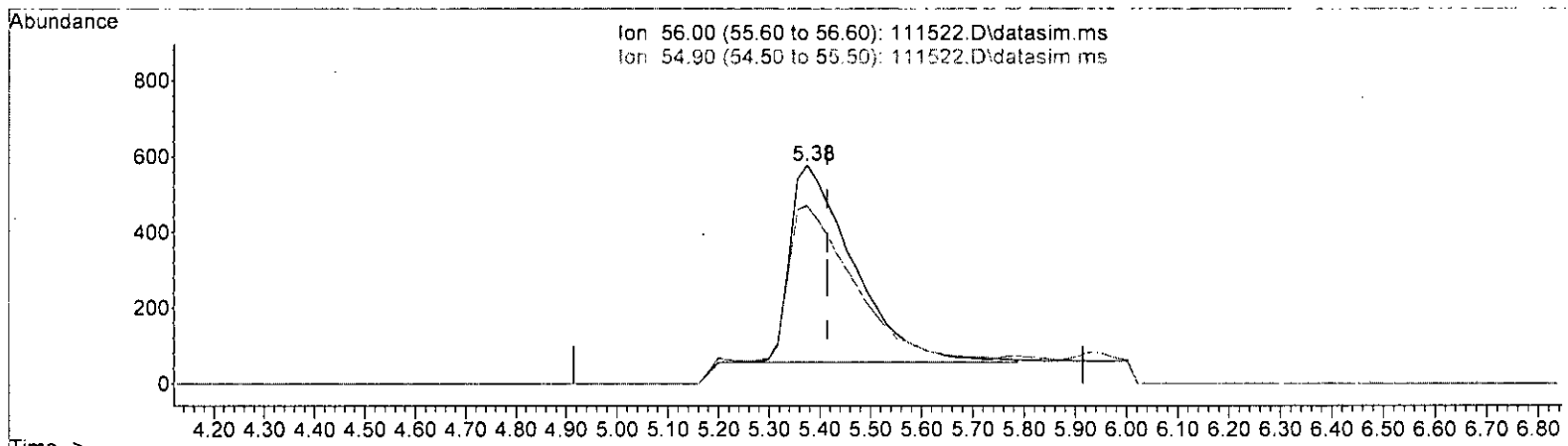
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	61.29
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 AL5 Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(13) Acrolein (TMP)

5.376min (-0.039) 1.000 ppbv m

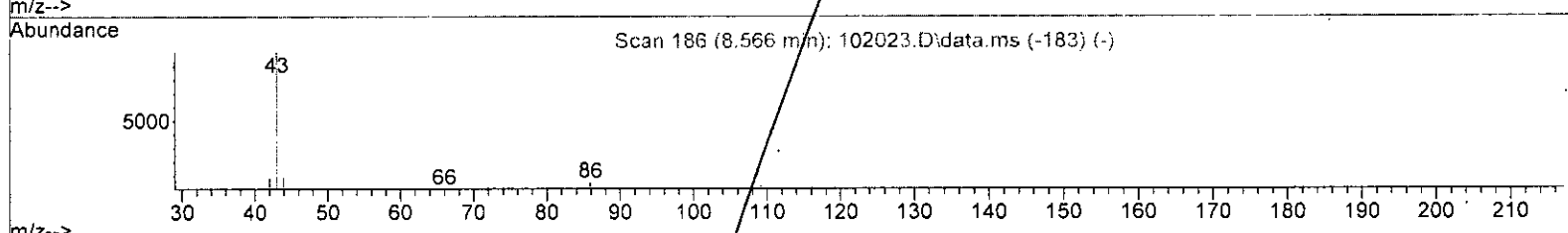
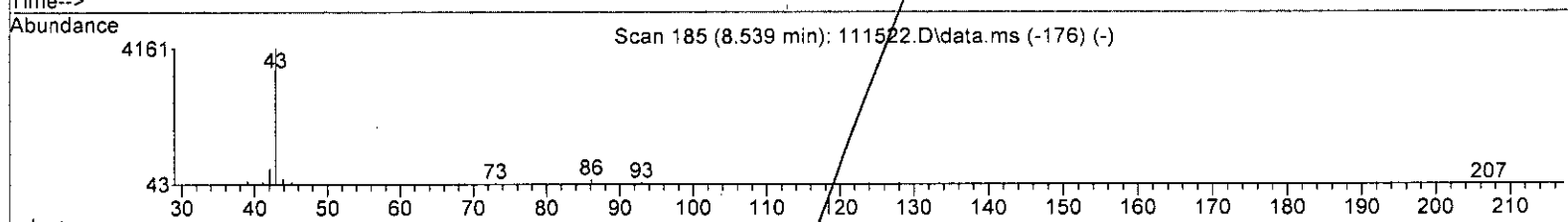
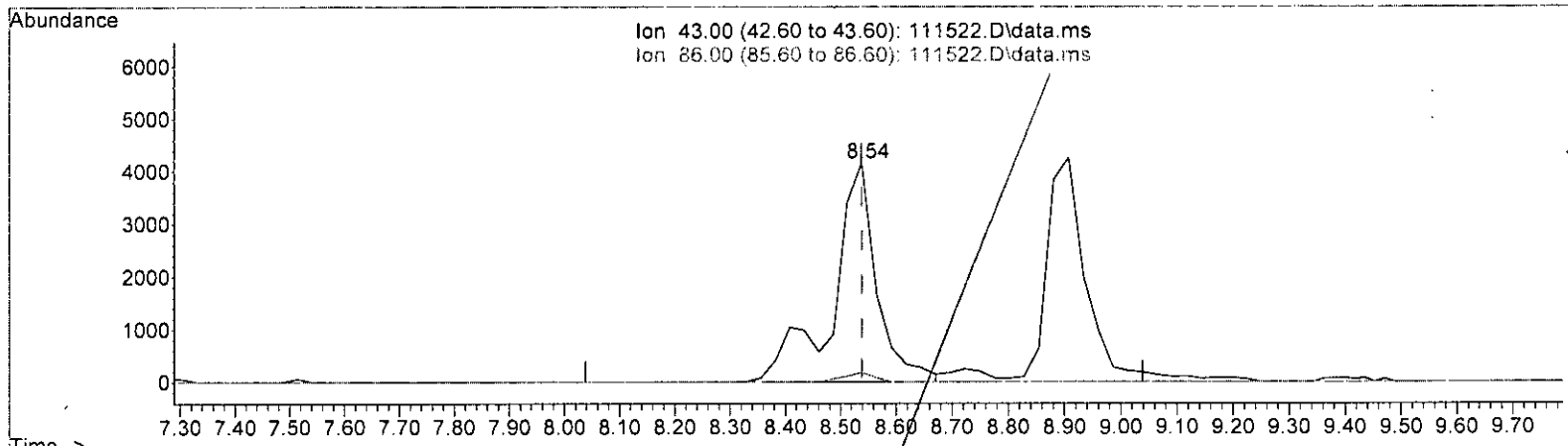
response	4512
Ion	Exp% Act%
56.00	100.00 100.00
54.90	81.00 97.30
0.00	0.00 0.00
0.00	0.00 0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111522.D\data.ms

(26) Vinyl acetate (TMP)

8.539min (+ 0.000) 0.976 ppbv

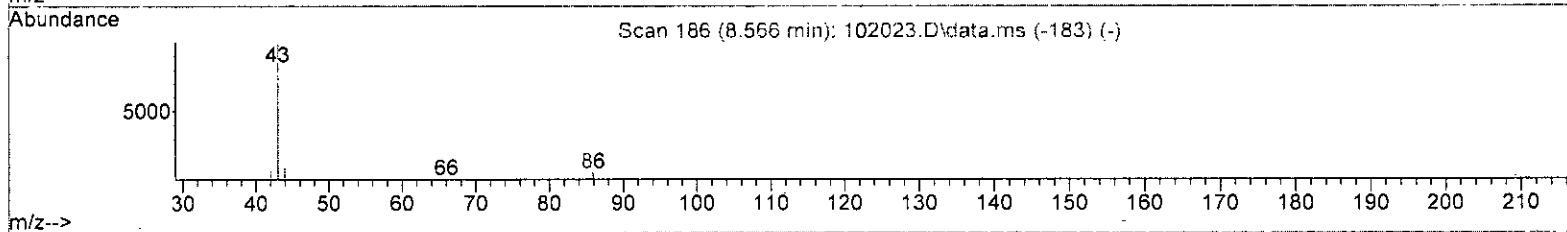
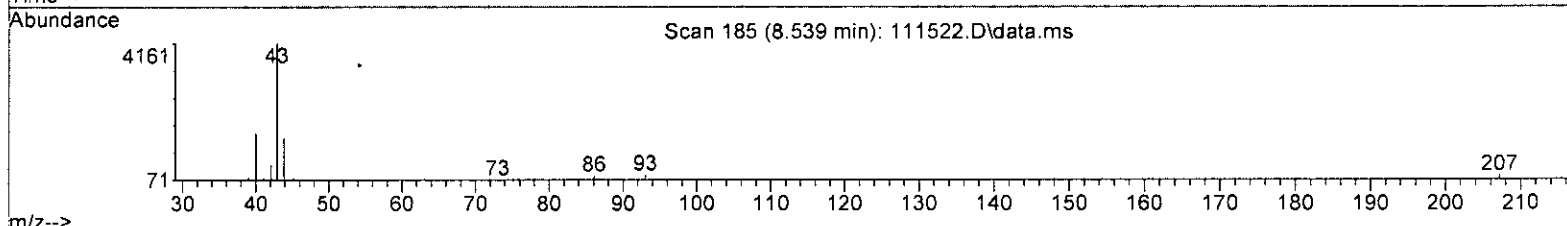
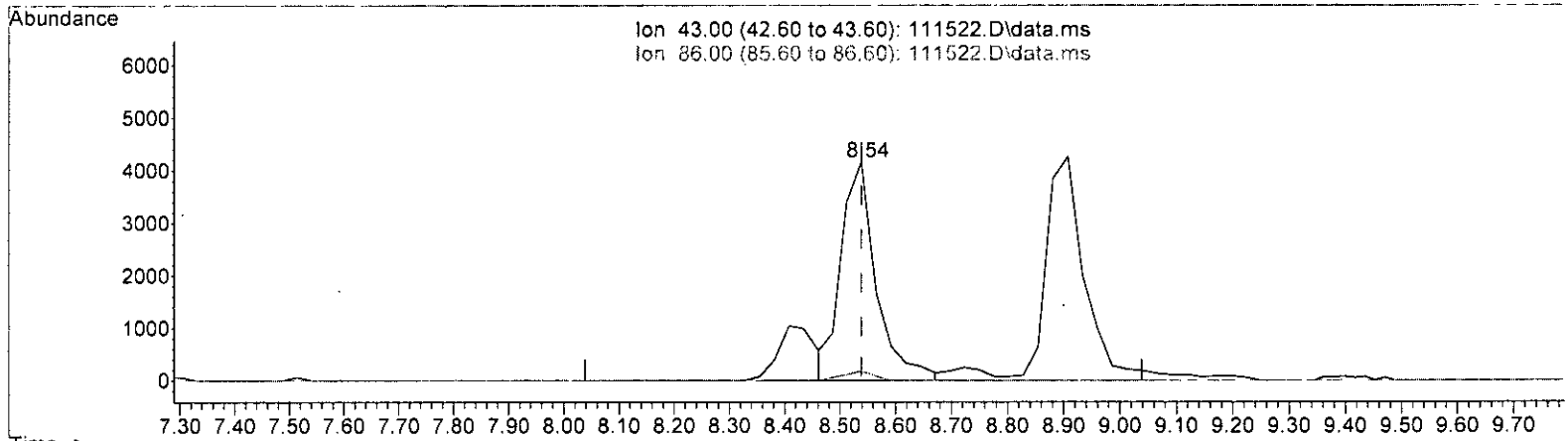
response	22967	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	4.30
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: C. Alksh*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

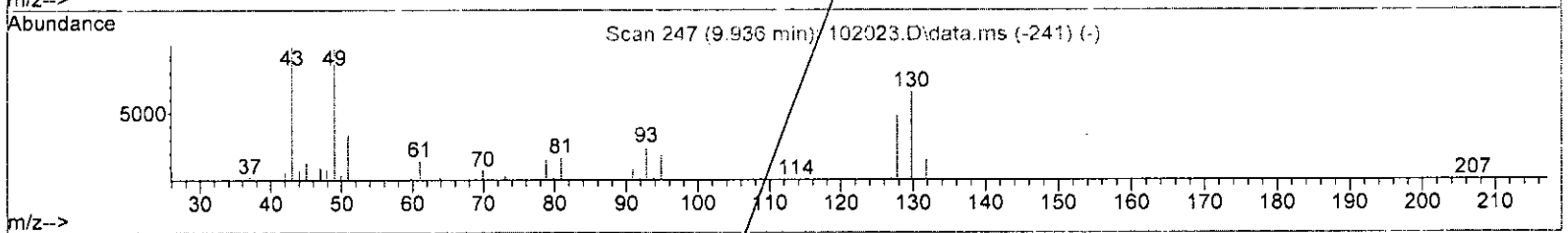
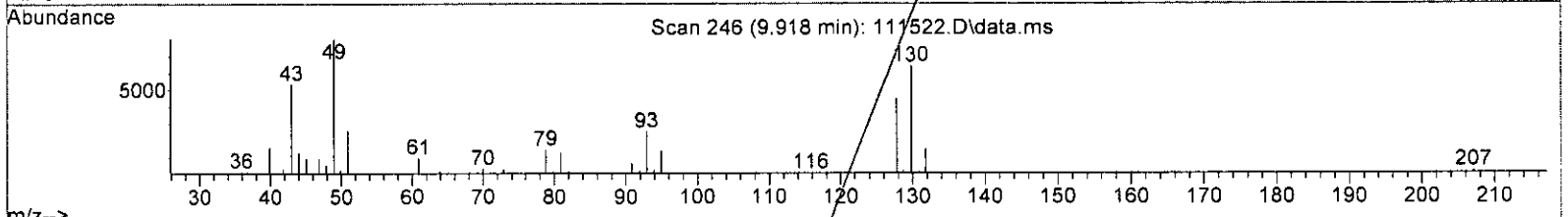
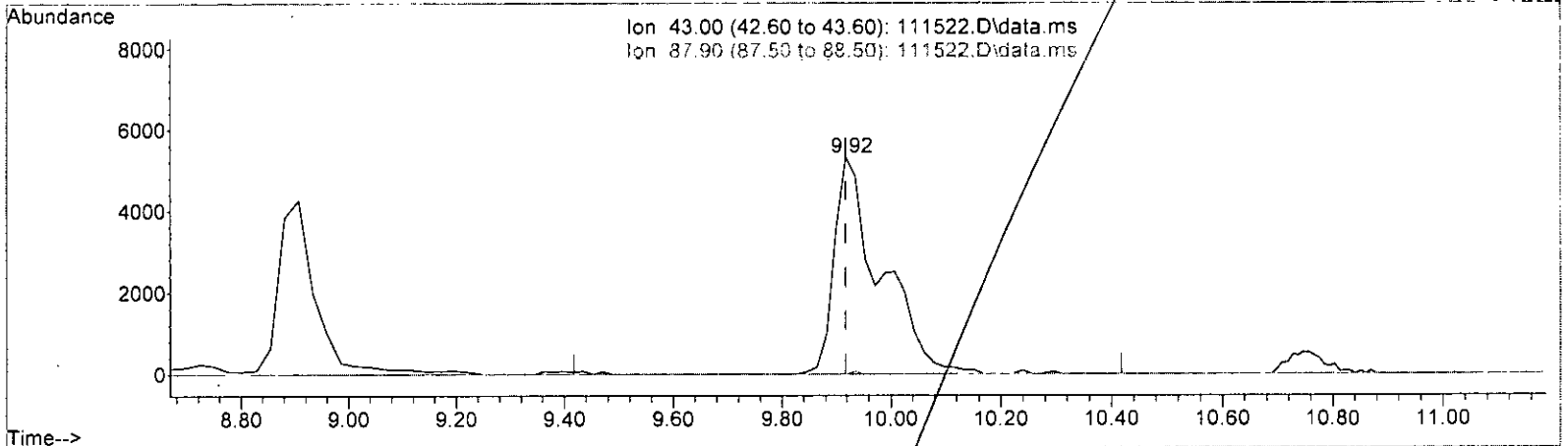
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000)	0.771 ppbv m	
response	18137	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	4.30
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

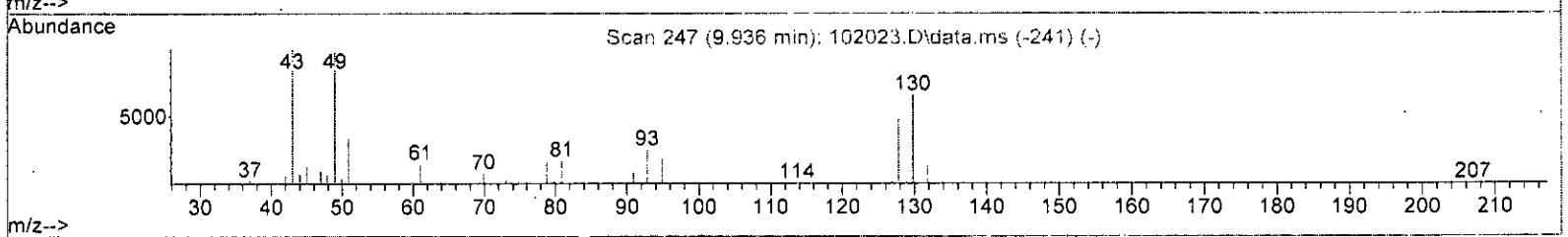
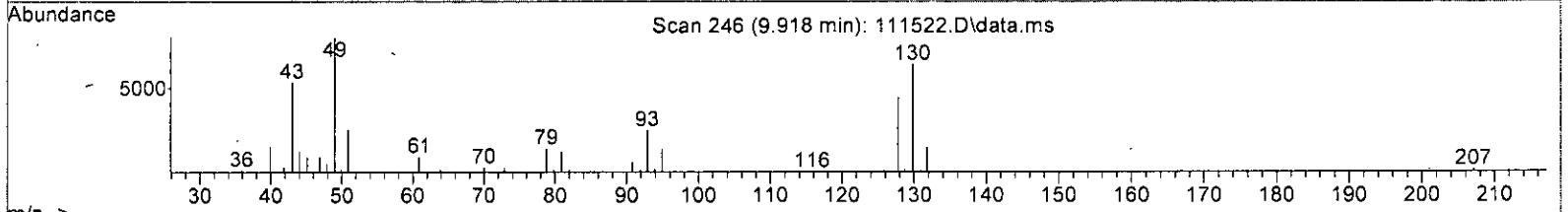
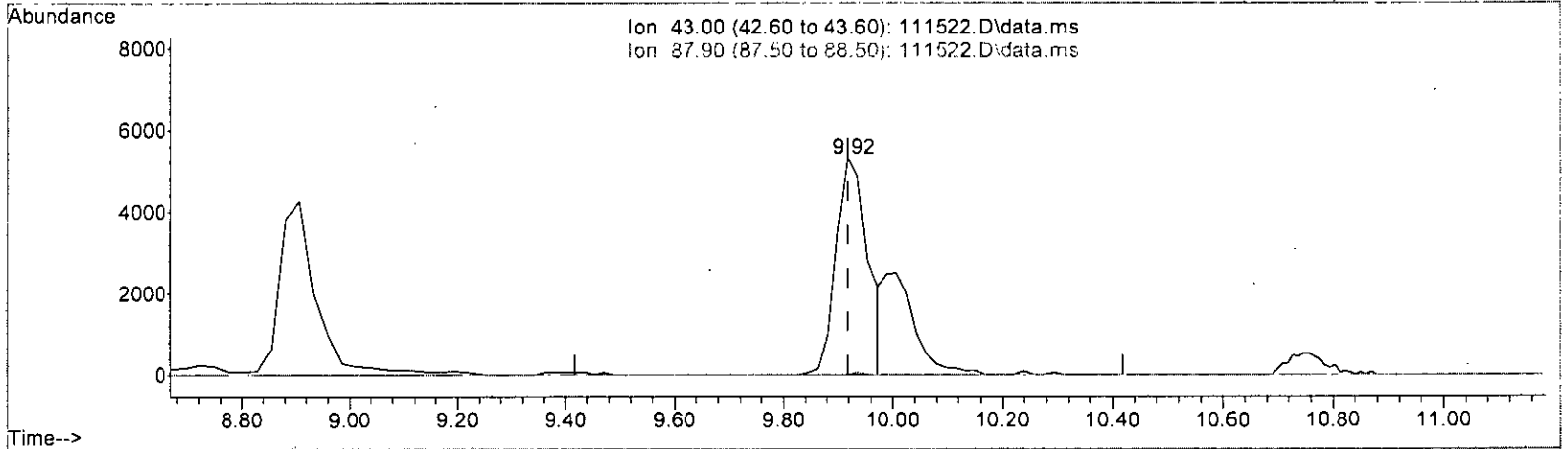
(31) Ethyl acetate (TMP)		
9.918min (-0.000)	1.337 ppbv	
response	31344	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

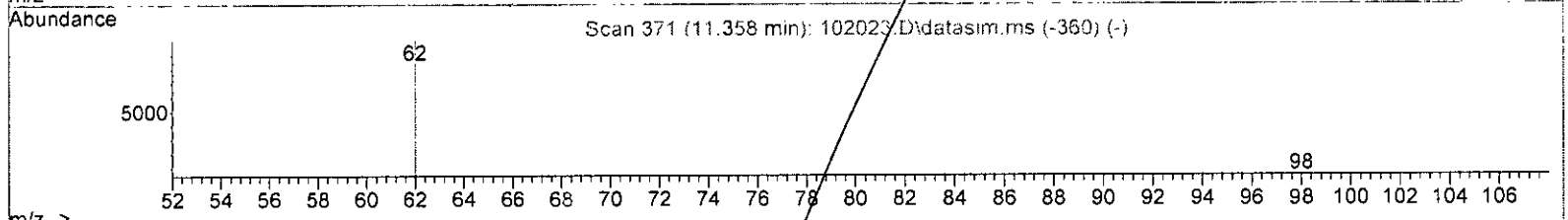
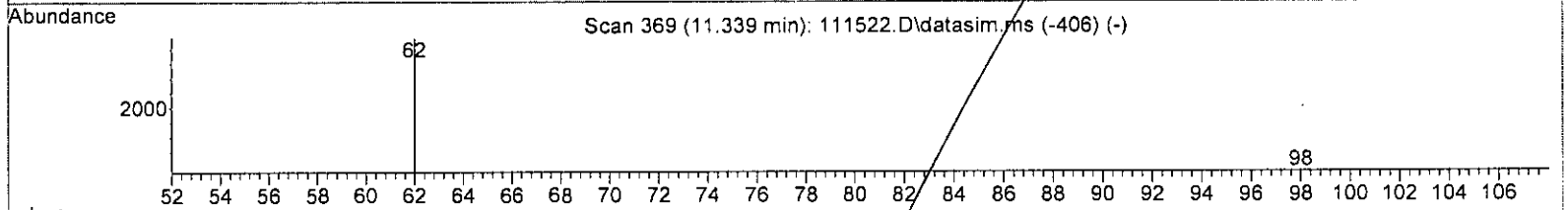
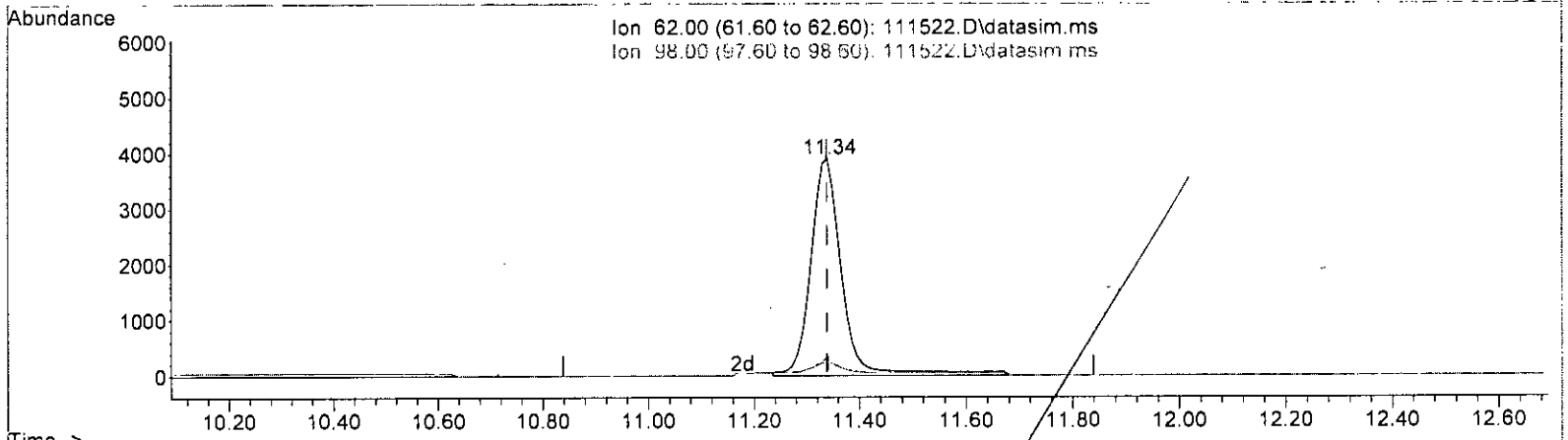
(31) Ethyl acetate (TMP)		
9.918min (-0.000) 0.909 ppbv m		
response	21319	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

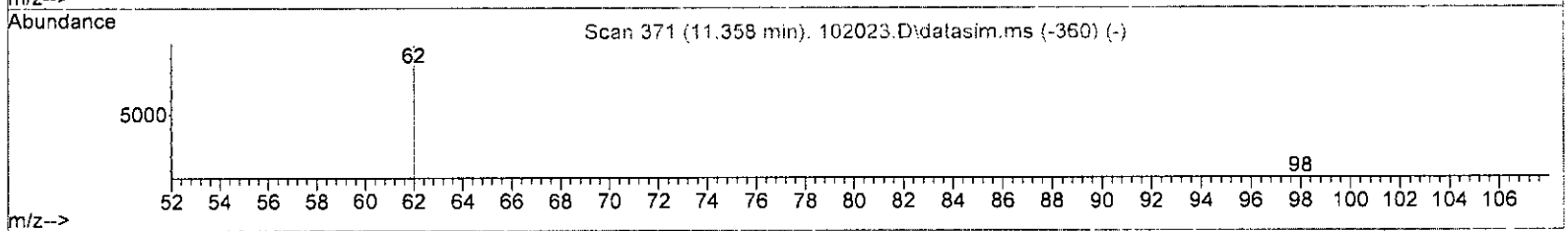
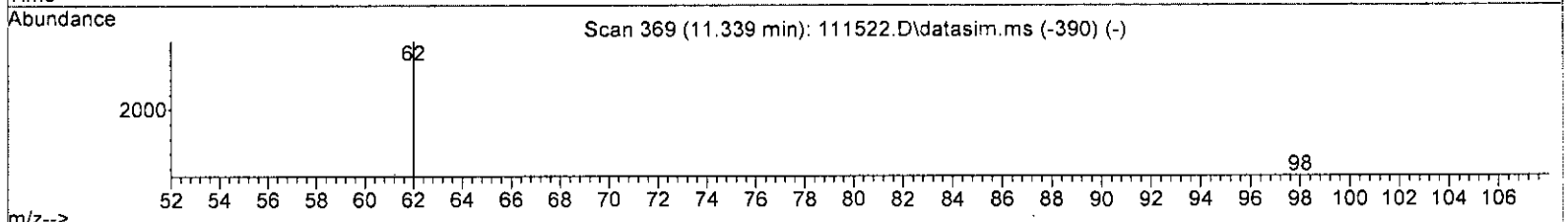
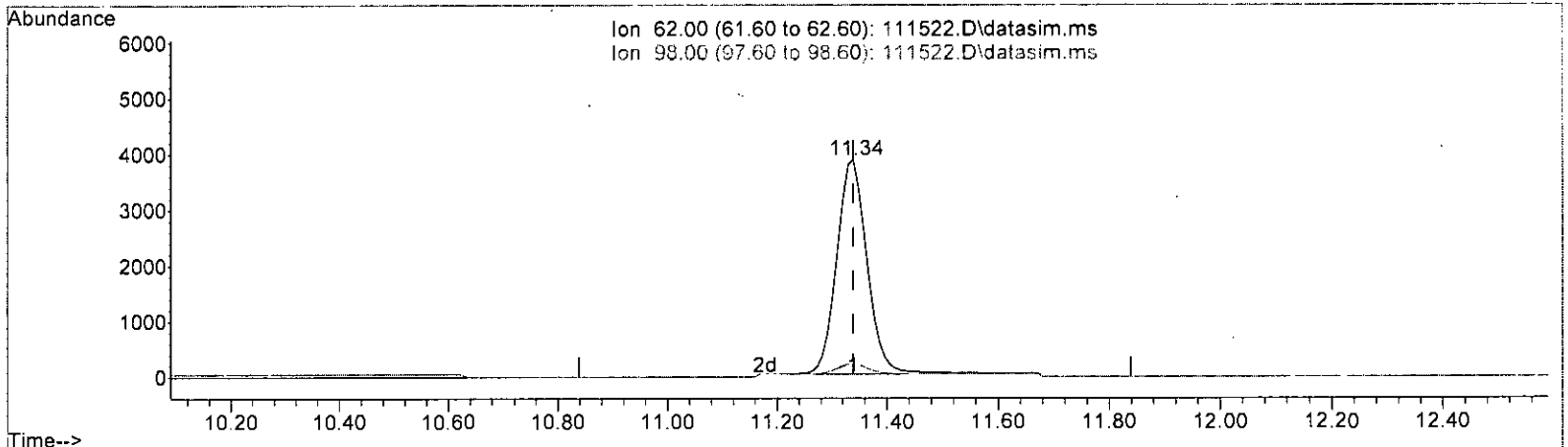
(34) 1,2-Dichloroethane (EDC) (TMP)			
11.339min	(+ 0.000)	1.011	ppbv
response	16184		
Ion	Exp%	Act%	
62.00	100.00	100.00	
98.00	5.30	6.24	
0.00	0.00	0.00	
0.00	0.00	0.00	

*h/k/w*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.339min (+ 0.000) 0.920 ppbv m

response	14741	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	6.24
0.00	0.00	0.00
0.00	0.00	0.00

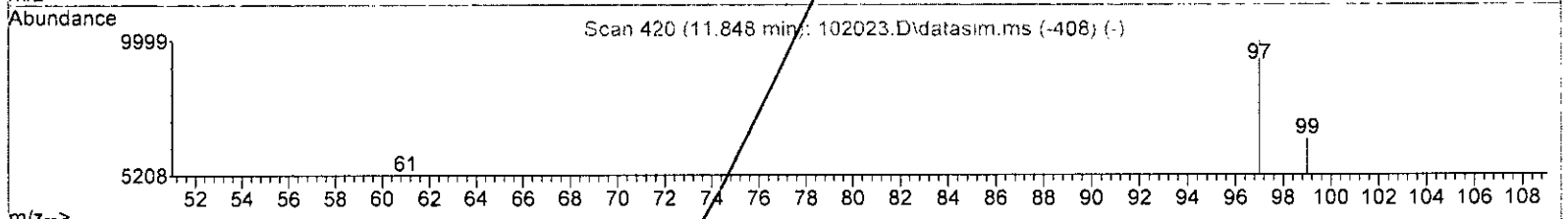
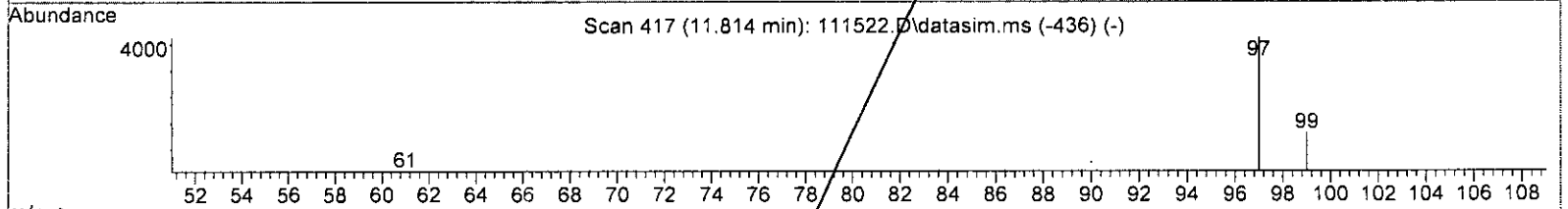
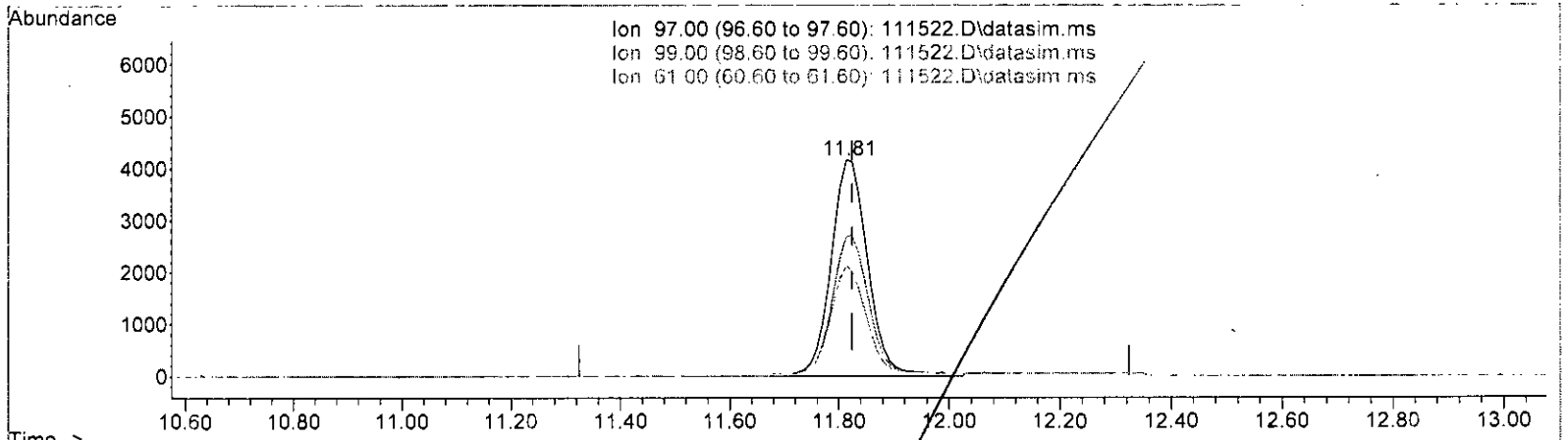
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111522.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.814min (-0.011) 0.936 ppbv

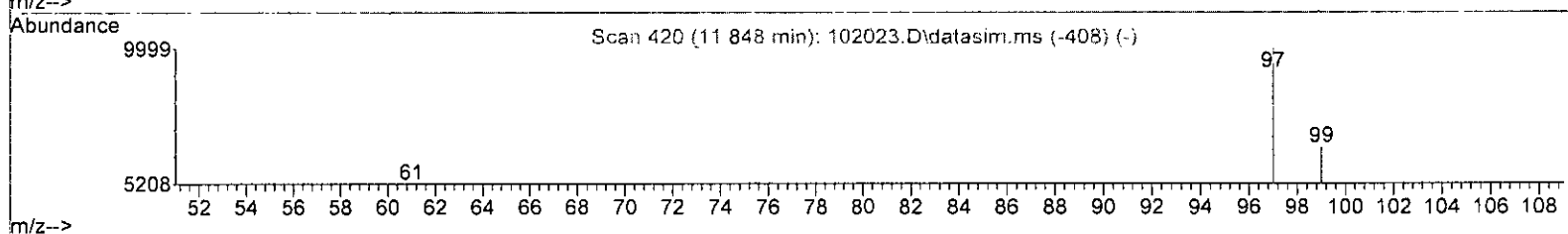
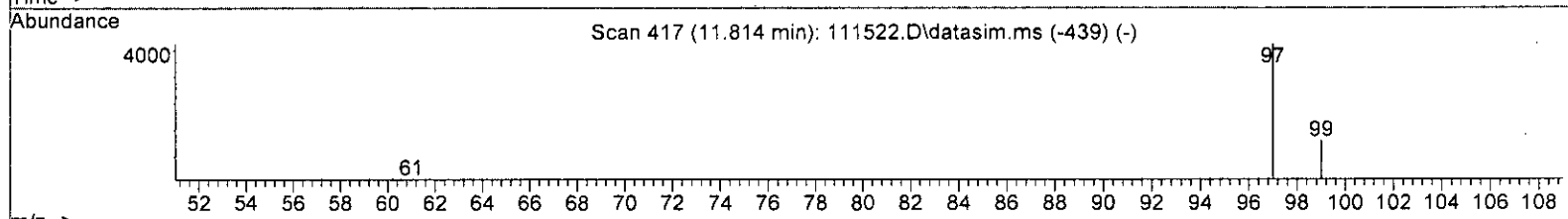
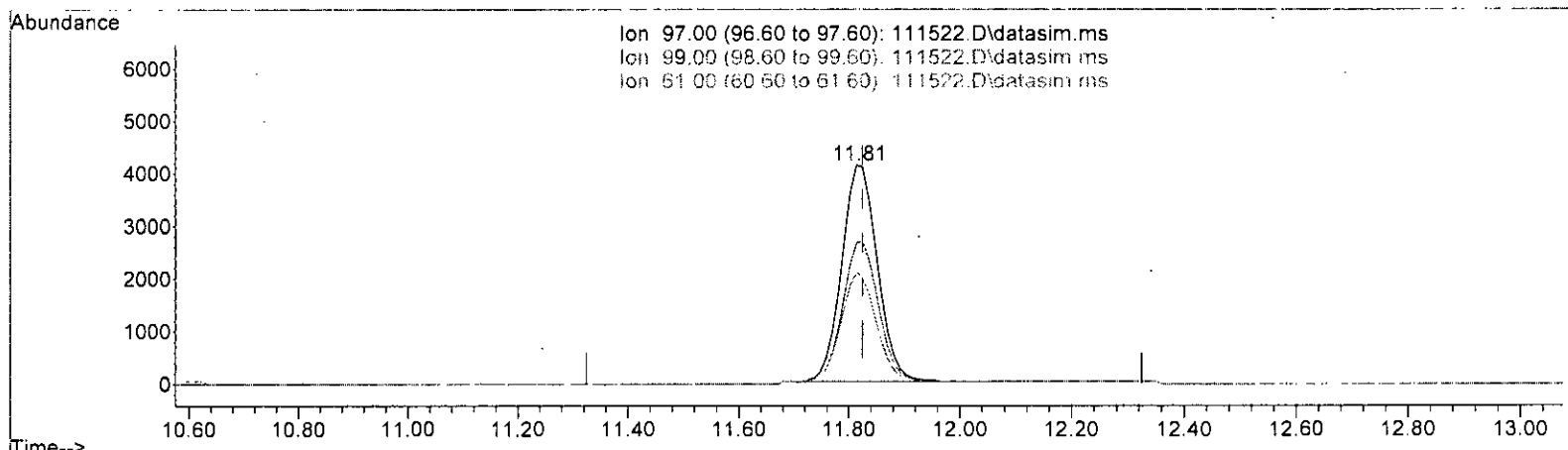
response	19366
Ion	Exp% Act%
97.00	100.00 100.00
99.00	61.70 64.68
61.00	49.30 51.08
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.814min (-0.011) 0.897 ppbv m

response	18568
Ion	Exp% Act%
97.00	100.00 100.00
99.00	61.70 64.68
61.00	49.30 51.08
0.00	0.00 0.00

*h/ll/ll*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	61897	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	280612	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	252262	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	173001	9.896	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.00%	
Target Compounds						
						Qvalue
2) Propene	3.41	41	8476	0.977	ppbv	98
3) Dichlorodifluoromethane	3.49	85	25247	0.989	ppbv	98
4) Chloromethane	3.73	50	12248m	1.051	ppbv	
5) F-114	3.84	85	26770	1.026	ppbv	95
6) Vinyl chloride	4.05	62	10517	0.918	ppbv	100
7) 1,3-Butadiene	4.17	54	6793m	0.903	ppbv	
8) Butane	4.28	43	14646	1.084	ppbv	83
9) Bromomethane	4.60	94	11468	1.003	ppbv	98
10) Chloroethane	4.84	64	4039m	0.997	ppbv	
11) Vinyl bromide	5.28	106	8908m	0.894	ppbv	
12) Ethanol	4.92	45	5034	1.226	ppbv	93
13) Acrolein	5.38	56	4512m	1.000	ppbv	
14) Pentane	6.25	43	14205	0.933	ppbv	91
15) Trichlorofluoromethane	5.82	101	29470	0.996	ppbv	93
16) Acetone	5.53	58	5072	1.153	ppbv #	68
17) 2-Propanol	5.78	45	18341	0.957	ppbv	100
18) 1,1-Dichloroethene	6.63	96	9330	0.916	ppbv	90
19) trans-1,2-Dichloroethene	8.07	96	8953	0.905	ppbv	94
20) Methylene chloride	6.78	84	9604	1.049	ppbv	88
21) t-Butyl alcohol (TBA)	6.57	59	15062	0.912	ppbv #	66
22) 3-Chloropropene	6.94	41	11102	0.872	ppbv	93
23) CFC-113	7.15	101	19415	0.904	ppbv	98
24) Carbon disulfide	7.23	76	28021	0.876	ppbv	95
25) Methyl t-butyl ether (...)	8.43	73	20246	0.953	ppbv	100
26) Vinyl acetate	8.54	43	18137m	0.771	ppbv	
27) 1,1-Dichloroethane	8.36	63	18894	0.913	ppbv	99
28) cis-1,2-Dichloroethene	9.62	96	9513	0.909	ppbv	90
29) Hexane	10.01	57	11499	0.898	ppbv	91
30) Chloroform	10.08	83	22481	0.932	ppbv	97
31) Ethyl acetate	9.92	43	21319m	0.909	ppbv	
32) Tetrahydrofuran	10.75	42	10348	0.924	ppbv	99
33) 2-Butanone (MEK)	8.91	72	3944	1.030	ppbv #	82
34) 1,2-Dichloroethane (EDC)	11.34	62	14741m	0.920	ppbv	
35) 1,1,1-Trichloroethane	11.81	97	18568m	0.897	ppbv	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37) Benzene	12.61	78	32378	0.956	ppbv	96
38) Cyclohexane	13.05	84	9050	1.070	ppbv	94
40) 1,2-Dichloropropane	13.80	63	14360	0.945	ppbv	99

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

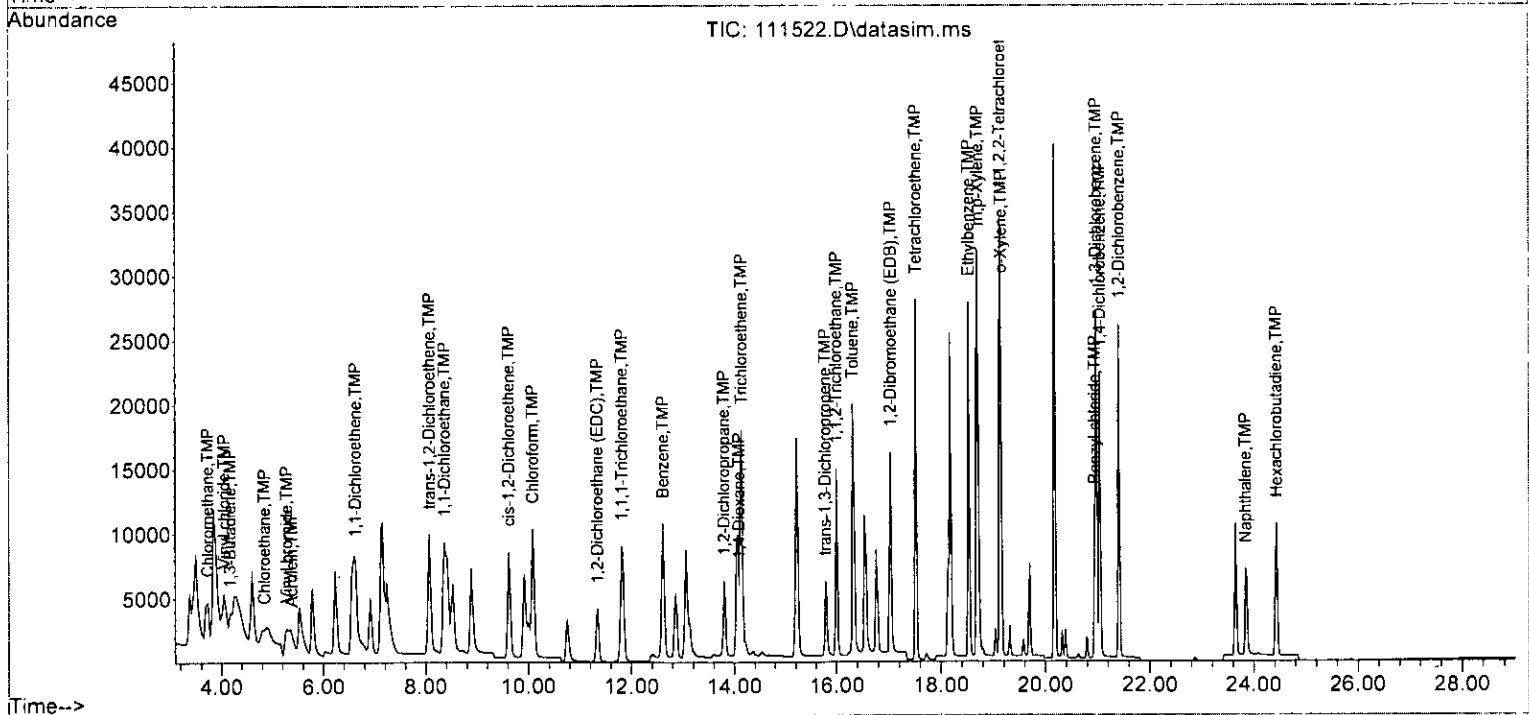
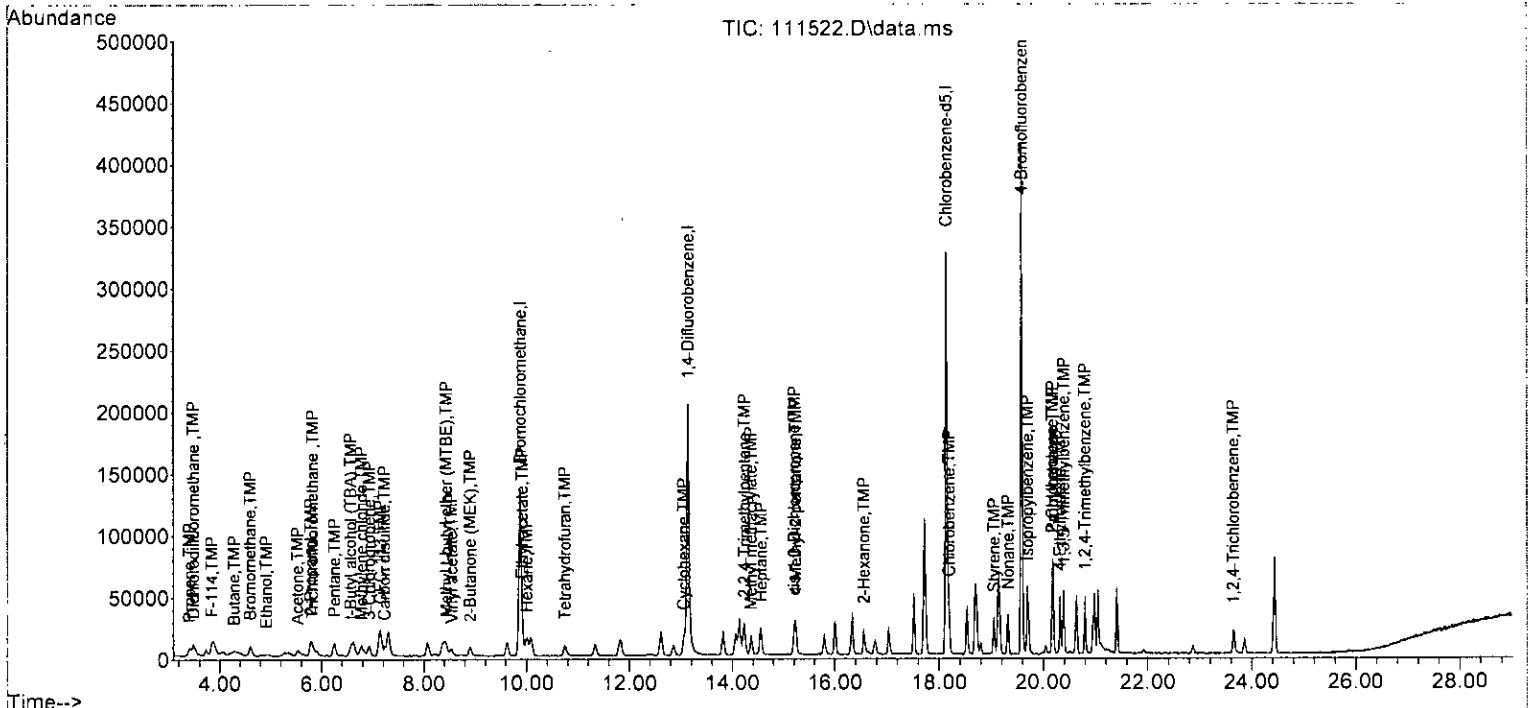
Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	6390	0.989	ppbv	87
42) 2,2,4-Trimethylpentane	14.24	57	41293	0.921	ppbv #	82
43) Methyl methacrylate	14.36	41	13309	0.977	ppbv	97
44) Heptane	14.56	43	17358	0.932	ppbv	98
45) Bromodichloromethane	0.00		0	N.D.	d	
46] Trichloroethene	14.14	95	15584	0.936	ppbv	94
47) cis-1,3-Dichloropropene	15.20	75	15247	0.908	ppbv	94
48) 4-Methyl-2-pentanone	15.23	100	1192	0.960	ppbv #	89
49] trans-1,3-Dichloropropene	15.78	75	13794	0.873	ppbv	83
50] Toluene	16.31	92	20038	1.010	ppbv	97
51] 1,1,2-Trichloroethane	16.00	83	14678	0.998	ppbv	93
52) 2-Hexanone	16.56	43	22201	0.935	ppbv	98
53] Tetrachloroethene	17.52	164	13275	0.966	ppbv	91
54) Dibromochloromethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	21154	0.976	ppbv	98
57) Chlorobenzene	18.19	112	26451	0.953	ppbv	97
58] Ethylbenzene	18.53	91	41021	0.900	ppbv	96
59] 1,1,2,2-Tetrachloroethane	19.13	83	30649	0.899	ppbv	93
60) Nonane	19.32	43	18435	0.745	ppbv	90
61) Isopropylbenzene	19.70	105	42880	0.949	ppbv	98
62) 2-Chlorotoluene	20.17	126	10476	0.927	ppbv	79
63) Propylbenzene	20.17	91	76426	0.920	ppbv	97
64) 4-Ethyltoluene	20.32	105	32835	0.808	ppbv	99
65] m,p-Xylene	18.70	106	27820	1.742	ppbv	97
66] o-Xylene	19.15	106	13828	0.892	ppbv	99
67) Styrene	19.05	104	17522	0.848	ppbv	99
68) Bromoform	0.00		0	N.D.	d	
70] Benzyl chloride	20.95	91	17786	0.624	ppbv	99
71) 1,3,5-Trimethylbenzene	20.39	105	33183	0.907	ppbv	97
72) 1,2,4-Trimethylbenzene	20.80	105	27377	0.865	ppbv	98
73] 1,3-Dichlorobenzene	20.98	146	23587	0.924	ppbv	99
74] 1,4-Dichlorobenzene	21.05	146	22090	0.925	ppbv	99
75] 1,2-Dichlorobenzene	21.41	146	26013	1.007	ppbv	94
76) 1,2,4-Trichlorobenzene	23.64	180	10416	0.705	ppbv	91
77] Naphthalene	23.84	128	16683	0.935	ppbv	98
78] Hexachlorobutadiene	24.44	225	24044	0.912	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-1968  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	1.000	0.977	2.3	100	0.00
3 TMP Dichlorodifluoromethane	1.000	0.989	1.1	100	0.00
4 TMP Chloromethane	1.000	1.051	-5.1	102	0.00
5 TMP F-114	1.000	1.026	-2.6	107	-0.04
6 TMP Vinyl chloride	1.000	0.918	8.2	100	-0.04
7 TMP 1,3-Butadiene	1.000	0.903	9.7	103	-0.12
8 TMP Butane	1.000	1.084	-8.4	105	-0.04
9 TMP Bromomethane	1.000	1.003	-0.3	100	0.00
10 TMP Chloroethane	1.000	0.997	0.3	102	0.00
11 TMP Vinyl bromide	1.000	0.894	10.6	97	-0.04
12 TMP Ethanol	1.000	1.226	-22.6	100	-0.04
13 TMP Acrolein	1.000	1.000	0.0	101	-0.04
14 TMP Pentane	1.000	0.933	6.7	100	0.00
15 TMP Trichlorofluoromethane	1.000	0.996	0.4	100	-0.02
16 TMP Acetone	1.000	1.153	-15.3	100	-0.04
17 TMP 2-Propanol	1.000	0.957	4.3	100	0.00
18 TMP 1,1-Dichloroethene	1.000	0.916	8.4	100	0.00
19 TMP trans-1,2-Dichloroethene	1.000	0.905	9.5	100	-0.03
20 TMP Methylene chloride	1.000	1.049	-4.9	100	-0.03
21 TMP t-Butyl alcohol (TBA)	1.000	0.912	8.8	100	0.00
22 TMP 3-Chloropropene	1.000	0.872	12.8	100	0.00
23 TMP CFC-113	1.000	0.904	9.6	100	0.00
24 TMP Carbon disulfide	1.000	0.876	12.4	100	-0.05
25 TMP Methyl t-butyl ether (MTBE)	1.000	0.953	4.7	100	0.00
26 TMP Vinyl acetate	1.000	0.771	22.9	100	0.00
27 TMP 1,1-Dichloroethane	1.000	0.913	8.7	100	0.00
28 TMP cis-1,2-Dichloroethene	1.000	0.909	9.1	100	-0.02
29 TMP Hexane	1.000	0.898	10.2	100	0.00
30 TMP Chloroform	1.000	0.932	6.8	100	-0.02
31 TMP Ethyl acetate	1.000	0.909	9.1	100	0.00
32 TMP Tetrahydrofuran	1.000	0.924	7.6	100	0.00
33 TMP 2-Butanone (MEK)	1.000	1.030	-3.0	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	1.000	0.920	8.0	101	0.00
35 TMP 1,1,1-Trichloroethane	1.000	0.897	10.3	100	-0.01
36 TMP Carbon tetrachloride	1.000	0.000	100.0#	0	-12.86#
37 TMP Benzene	1.000	0.956	4.4	100	0.00
38 TMP Cyclohexane	1.000	1.070	-7.0	100	-0.02
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	1.000	0.945	5.5	100	0.00
41 TMP 1,4-Dioxane	1.000	0.989	1.1	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.000	0.921	7.9	100	0.00
43 TMP Methyl methacrylate	1.000	0.977	2.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	1.000	0.932	6.8	100	0.00
45 TMP Bromodichloromethane	1.000	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	1.000	0.936	6.4	100	0.00
47 TMP cis-1,3-Dichloropropene	1.000	0.908	9.2	100	0.00
48 TMP 4-Methyl-2-pentanone	1.000	0.960	4.0	100	0.00
49 TMP trans-1,3-Dichloropropene	1.000	0.873	12.7	100	0.00
50 TMP Toluene	1.000	1.010	-1.0	107	0.00
51 TMP 1,1,2-Trichloroethane	1.000	0.998	0.2	109	0.00
52 TMP 2-Hexanone	1.000	0.935	6.5	100	0.00
53 TMP Tetrachloroethene	1.000	0.966	3.4	100	0.00
54 TMP Dibromochloromethane	1.000	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	1.000	0.976	2.4	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	1.000	0.953	4.7	100	0.00
58 TMP Ethylbenzene	1.000	0.900	10.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.000	0.899	10.1	100	0.00
60 TMP Nonane	1.000	0.745	25.5	100	0.02
61 TMP Isopropylbenzene	1.000	0.949	5.1	100	0.00
62 TMP 2-Chlorotoluene	1.000	0.927	7.3	100	0.00
63 TMP Propylbenzene	1.000	0.920	8.0	100	-0.01
64 TMP 4-Ethyltoluene	1.000	0.808	19.2	100	0.00
65 TMP m,p-Xylene	2.000	1.742	12.9	100	0.00
66 TMP o-Xylene	1.000	0.892	10.8	100	0.00
67 TMP Styrene	1.000	0.848	15.2	100	0.00
68 TMP Bromoform	1.000	0.000	100.0#	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.896	1.0	100	0.00
70 TMP Benzyl chloride	1.000	0.624	37.6#	103	0.00
71 TMP 1,3,5-Trimethylbenzene	1.000	0.907	9.3	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.000	0.865	13.5	100	0.00
73 TMP 1,3-Dichlorobenzene	1.000	0.924	7.6	100	0.00
74 TMP 1,4-Dichlorobenzene	1.000	0.925	7.5	100	0.00
75 TMP 1,2-Dichlorobenzene	1.000	1.007	-0.7	100	0.00
76 TMP 1,2,4-Trichlorobenzene	1.000	0.705	29.5	100	0.00
77 TMP Naphthalene	1.000	0.935	6.5	100	0.00
78 TMP Hexachlorobutadiene	1.000	0.912	8.8	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.369	12.0	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.079	1.1	100	0.00
4 TMP Chloromethane	1.882	1.979	-5.2	102	0.00
5 TMP F-114	4.217	4.325	-2.6	107	-0.04
6 TMP Vinyl chloride	1.851	1.699	8.2	100	-0.04
7 TMP 1,3-Butadiene	1.216	1.097	9.8	103	-0.12
8 TMP Butane	2.183	2.366	-8.4	105	-0.04
9 TMP Bromomethane	1.847	1.853	-0.3	100	0.00
10 TMP Chloroethane	0.655	0.653	0.3	102	0.00
11 TMP Vinyl bromide	1.609	1.439	10.6	97	-0.04
12 TMP Ethanol	0.663	0.813	-22.6	100	-0.04
13 TMP Acrolein	0.729	0.729	0.0	101	-0.04
14 TMP Pentane	2.461	2.295	6.7	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.761	0.4	100	-0.02
16 TMP Acetone	0.710	0.819	-15.4	100	-0.04
17 TMP 2-Propanol	3.096	2.963	4.3	100	0.00
18 TMP 1,1-Dichloroethene	1.645	1.507	8.4	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.446	9.5	100	-0.03
20 TMP Methylene chloride	1.479	1.552	-4.9	100	-0.03
21 TMP t-Butyl alcohol (TBA)	2.668	2.433	8.8	100	0.00
22 TMP 3-Chloropropene	2.056	1.794	12.7	100	0.00
23 TMP CFC-113	3.469	3.137	9.6	100	0.00
24 TMP Carbon disulfide	5.167	4.527	12.4	100	-0.05
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.271	4.7	100	0.00
26 TMP Vinyl acetate	3.801	2.930	22.9	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.052	8.7	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.537	9.1	100	-0.02
29 TMP Hexane	2.068	1.858	10.2	100	0.00
30 TMP Chloroform	4.060	3.632	10.5	100	-0.02
31 TMP Ethyl acetate	3.789	3.444	9.1	100	0.00
32 TMP Tetrahydrofuran	1.809	1.672	7.6	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.637	-2.9	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.382	11.4	101	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.000	10.3	100	-0.01
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	5.231	8.0	100	0.00
38 TMP Cyclohexane	1.367	1.462	-6.9	100	-0.02
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.512	5.4	100	0.00
41 TMP 1,4-Dioxane	0.230	0.228	0.9	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.472	7.9	100	0.00
43 TMP Methyl methacrylate	0.485	0.474	2.3	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.619	6.6	100	0.00
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.555	6.4	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.543	9.3	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.042	4.5	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.492	12.6	100	0.00
50 TMP Toluene	0.707	0.714	-1.0	107	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.523	4.9	109	0.00
52 TMP 2-Hexanone	0.846	0.791	6.5	100	0.00
53 TMP Tetrachloroethene	0.490	0.473	3.5	100	0.00
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.754	8.5	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.049	4.7	100	0.00
58 TMP Ethylbenzene	1.968	1.626	17.4	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.215	12.8	100	0.00
60 TMP Nonane	0.981	0.731	25.5	100	0.02
61 TMP Isopropylbenzene	1.792	1.700	5.1	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.415	7.4	100	0.00
63 TMP Propylbenzene	3.292	3.030	8.0	100	-0.01
64 TMP 4-Ethyltoluene	1.611	1.302	19.2	100	0.00
65 TMP m,p-Xylene	0.633	0.551	13.0	100	0.00
66 TMP o-Xylene	0.615	0.548	10.9	100	0.00
67 TMP Styrene	0.819	0.695	15.1	100	0.00
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.686	1.0	100	0.00
70 TMP Benzyl chloride	0.987	0.705	28.6	103	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.315	9.3	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.085	13.0	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	0.935	7.6	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.876	7.5	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.031	-0.7	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.413	34.0#	100	0.00
77 TMP Naphthalene	1.132	0.661	41.6#	100	0.00
78 TMP Hexachlorobutadiene	1.045	0.953	8.8	100	0.00

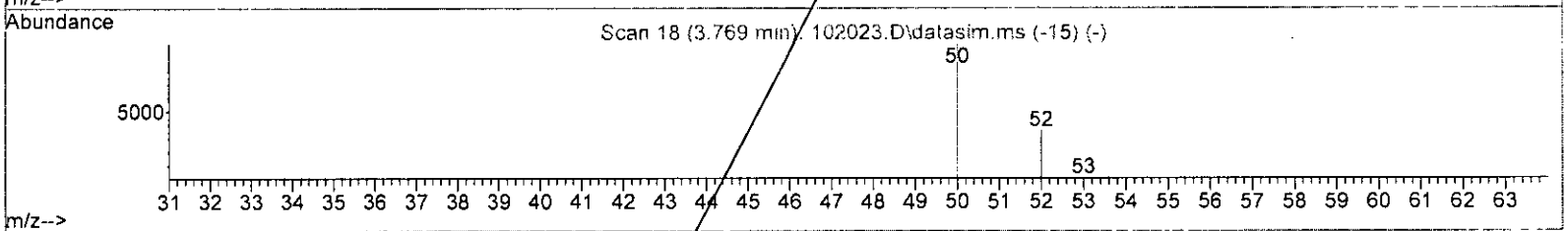
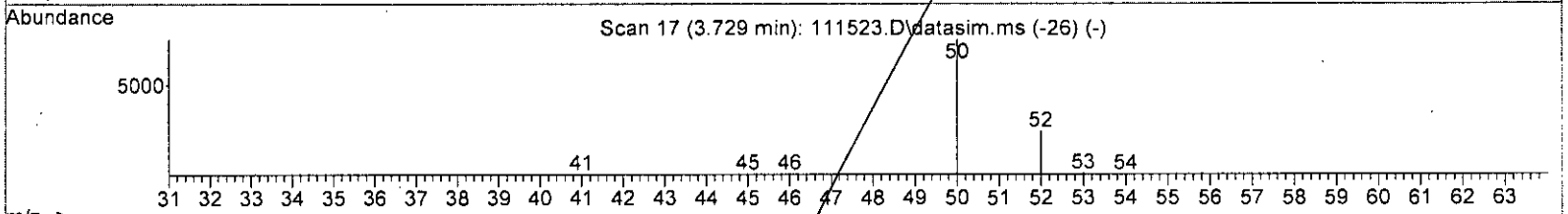
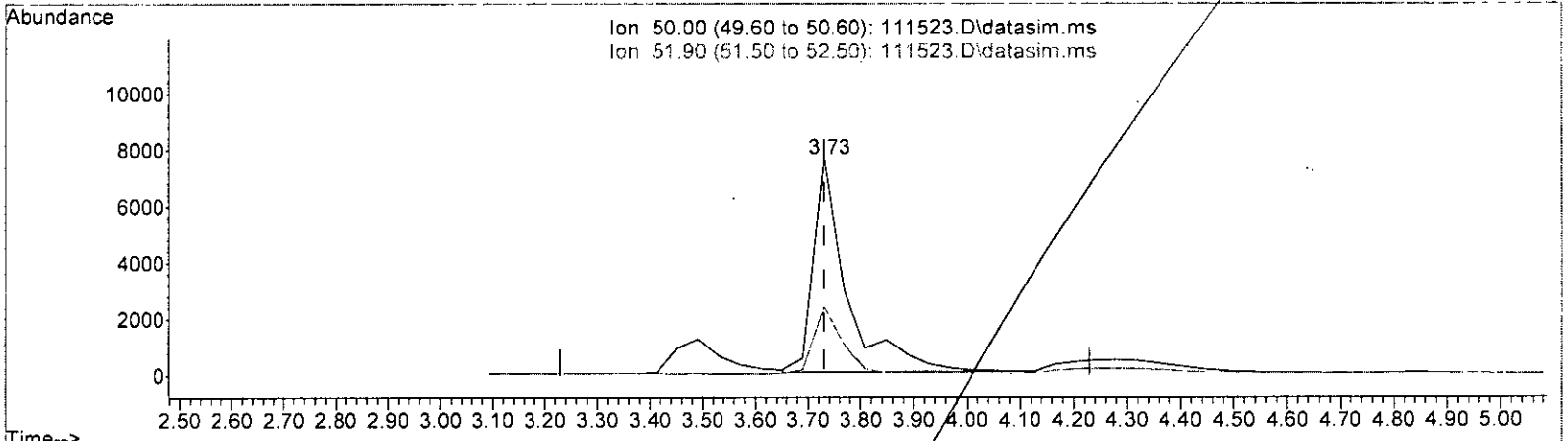
(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

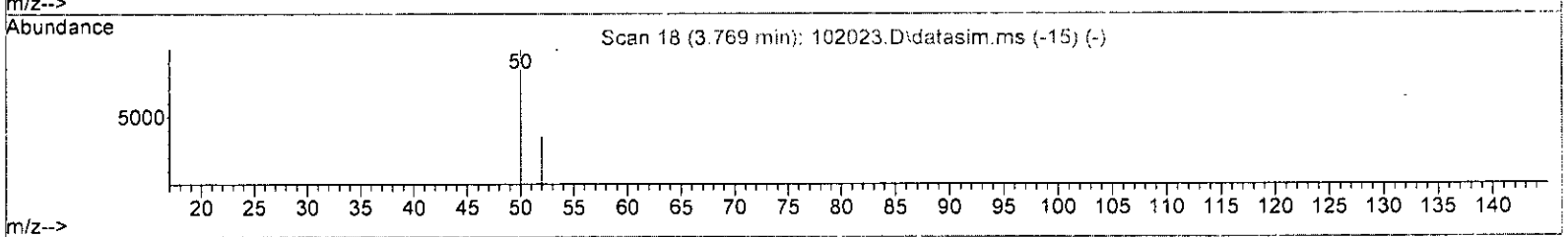
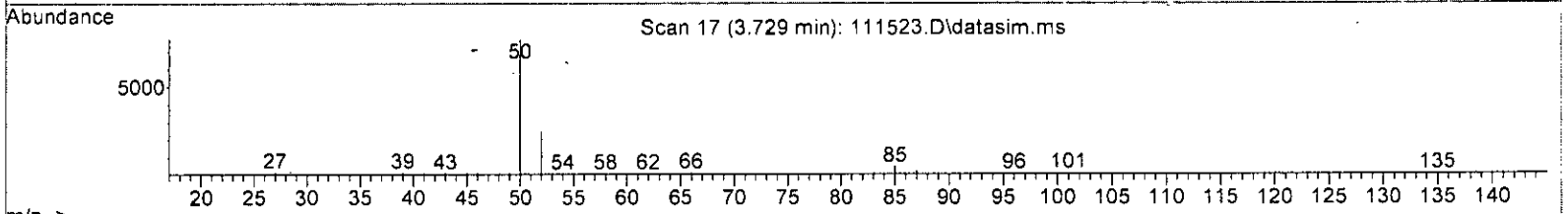
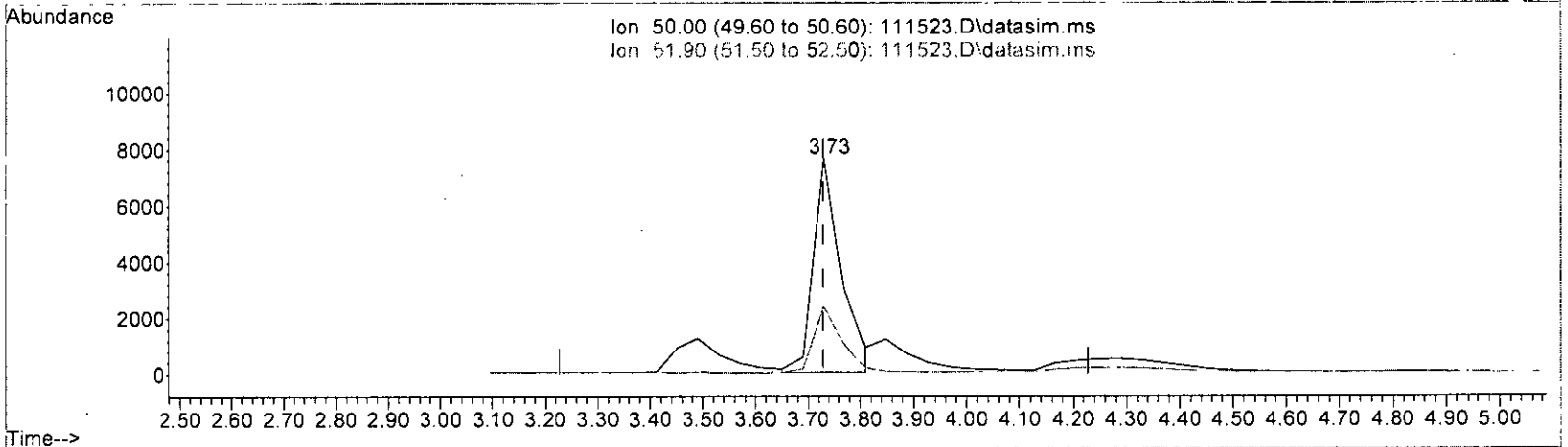
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	2.974 ppbv	
response	33620	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	31.47
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: bat 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

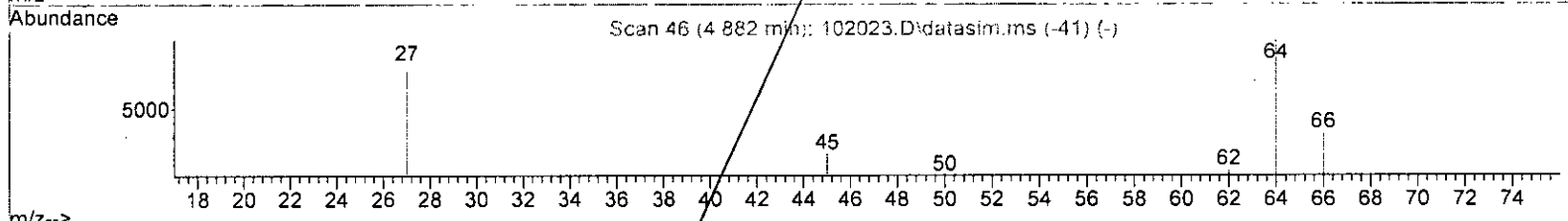
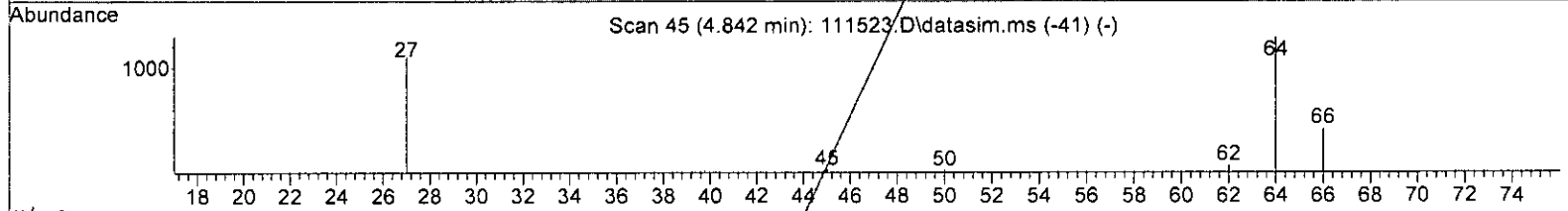
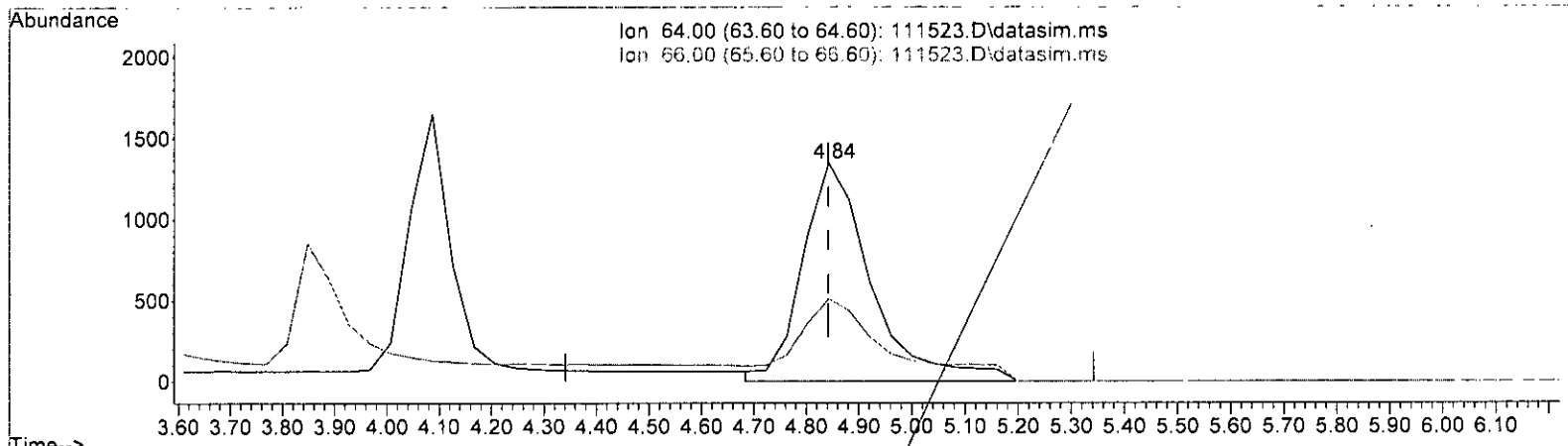
(4) Chloromethane (TMP)			
3.729min (+ 0.000)	2.536 ppbv m		
response	28666		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	31.77	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111523.D\data.ms

(10) Chloroethane (TMP)  
 4.842min (+ 0.000) 2.981 ppbv  
 response 11716

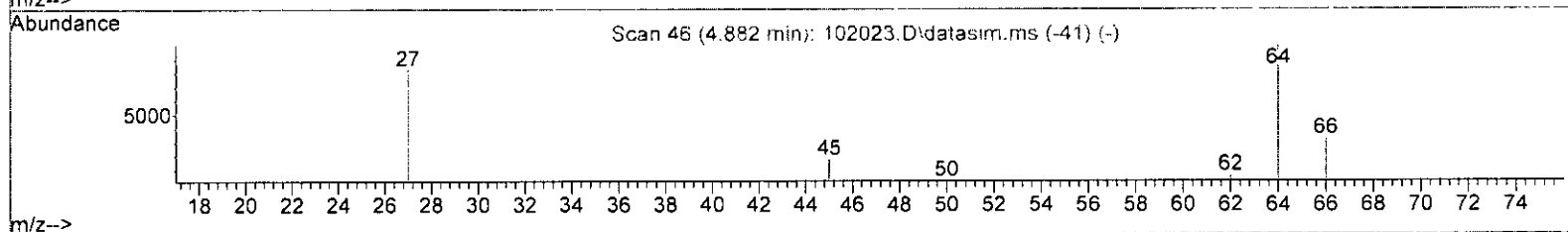
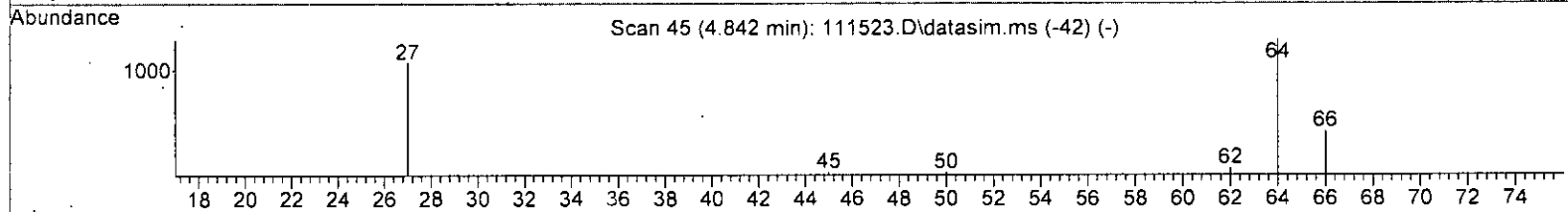
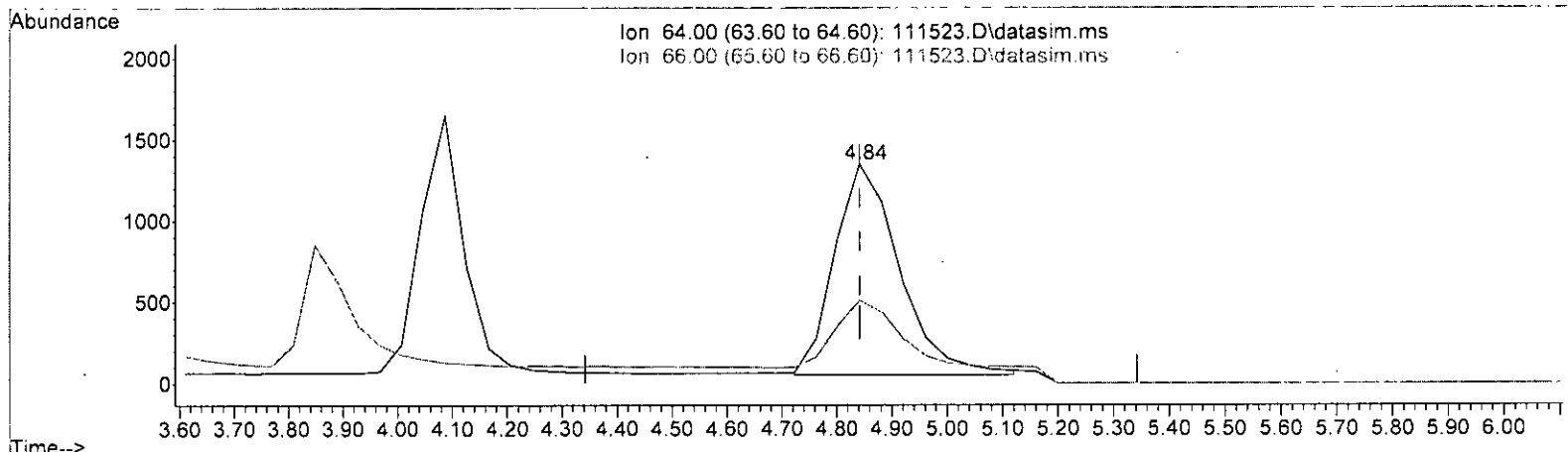
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	37.86
0.00	0.00	0.00
0.00	0.00	0.00

*h*  
*9/16/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

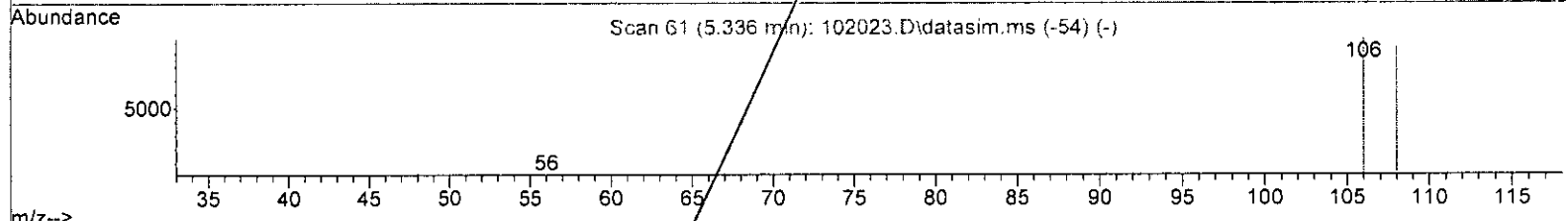
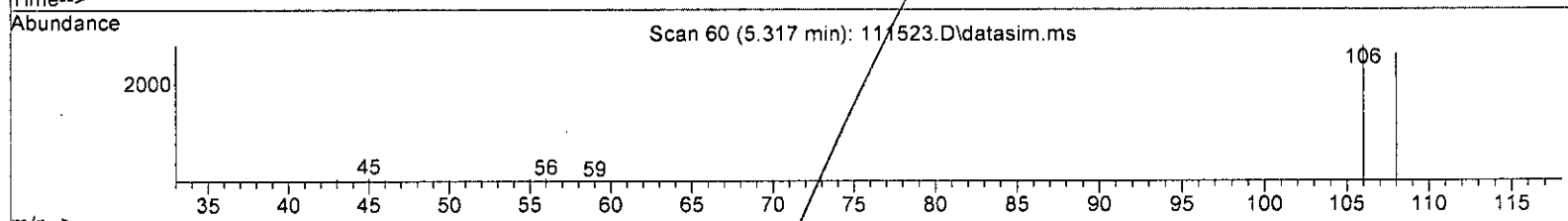
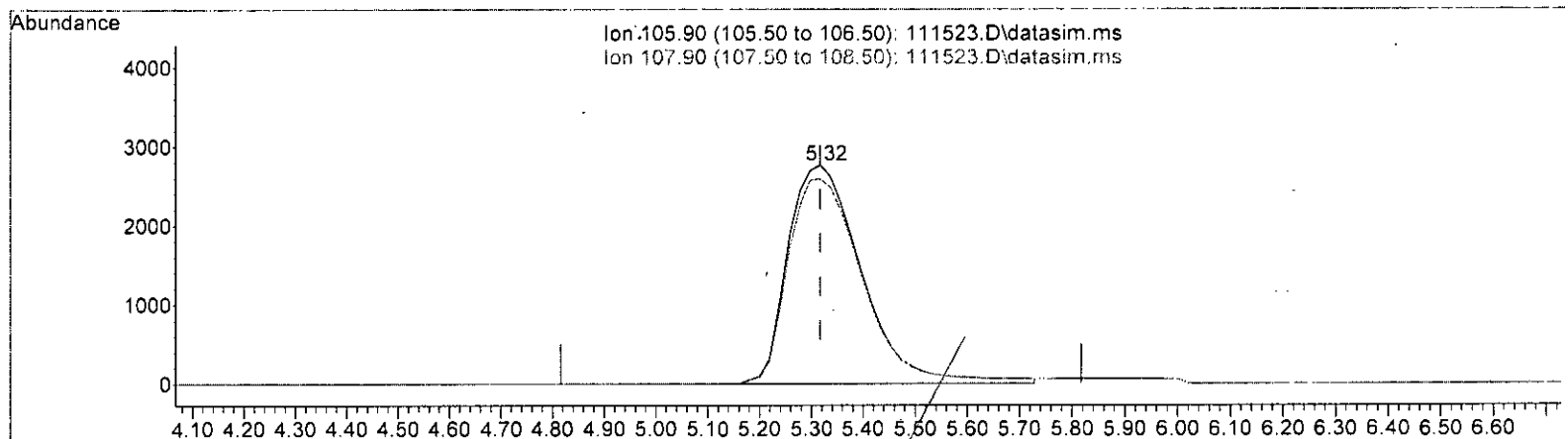
(10) Chloroethane (TMP)			
4.842min (+ 0.000)		2.701 ppbv m	
response	10615		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	31.80	37.86	
0.00	0.00	0.00	
0.00	0.00	0.00	

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

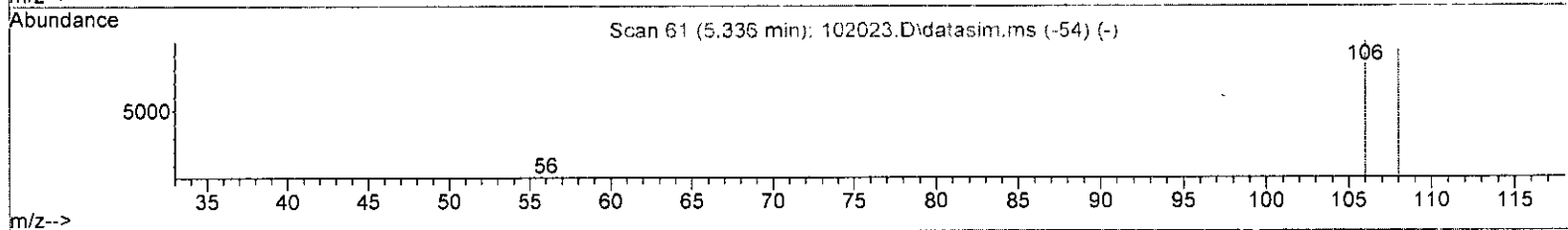
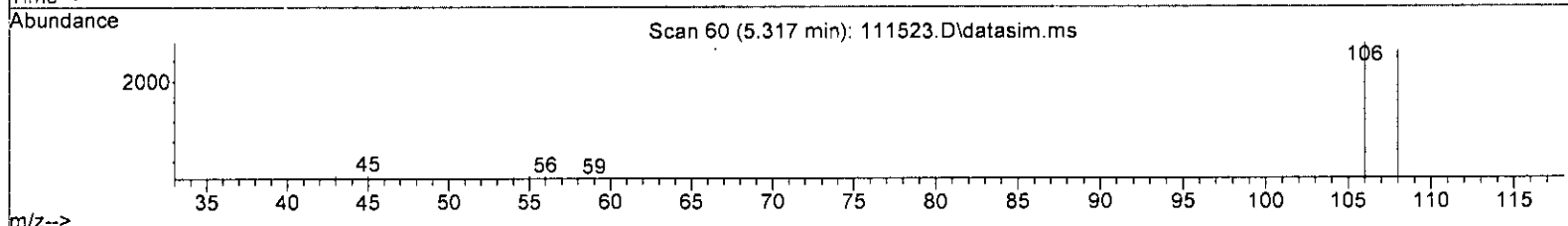
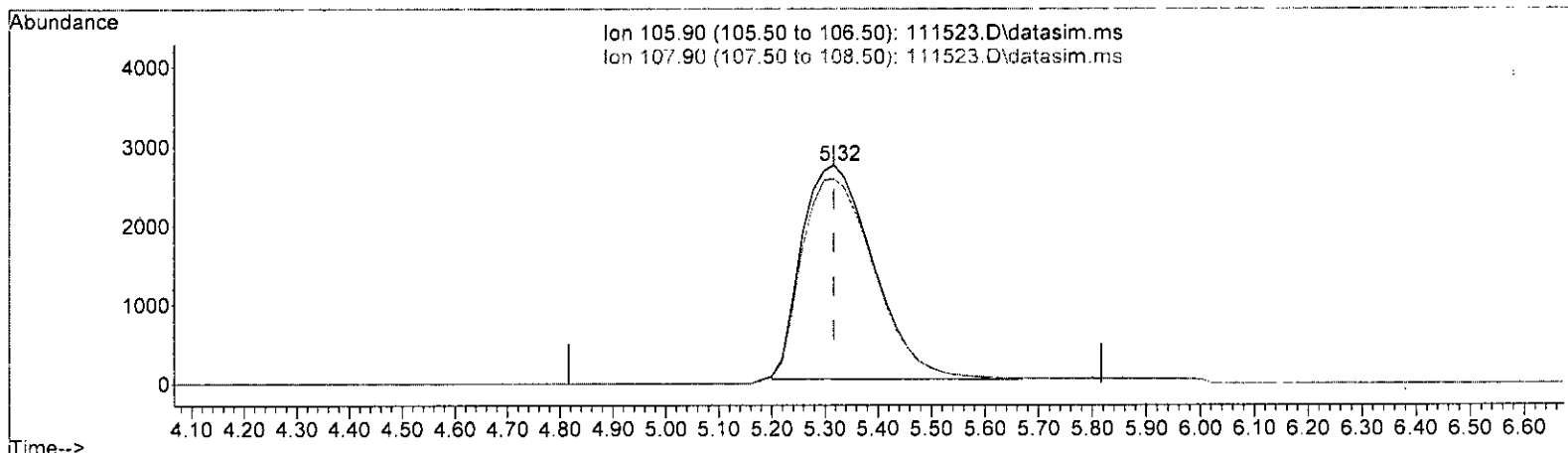
(11) Vinyl bromide (TMP)		
5.317min (+ 0.000)	3.023 ppbv	
response	29213	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	94.82
0.00	0.00	0.00
0.00	0.00	0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

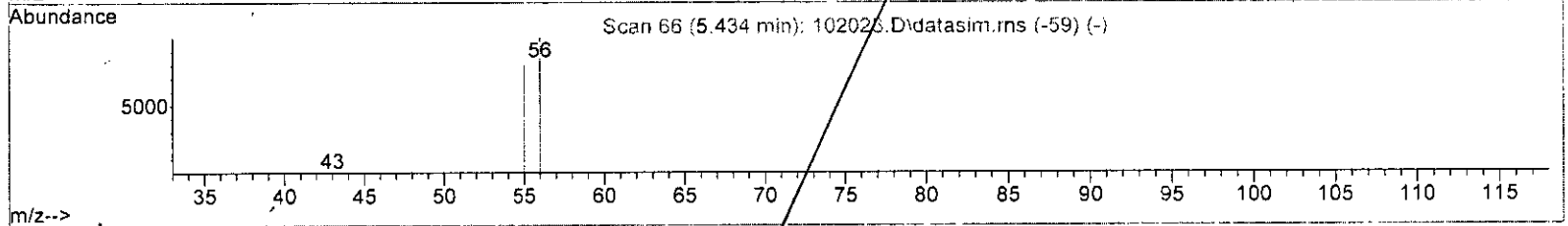
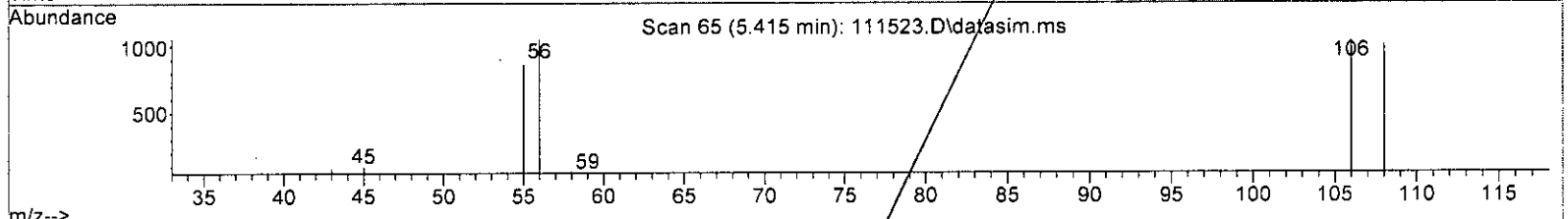
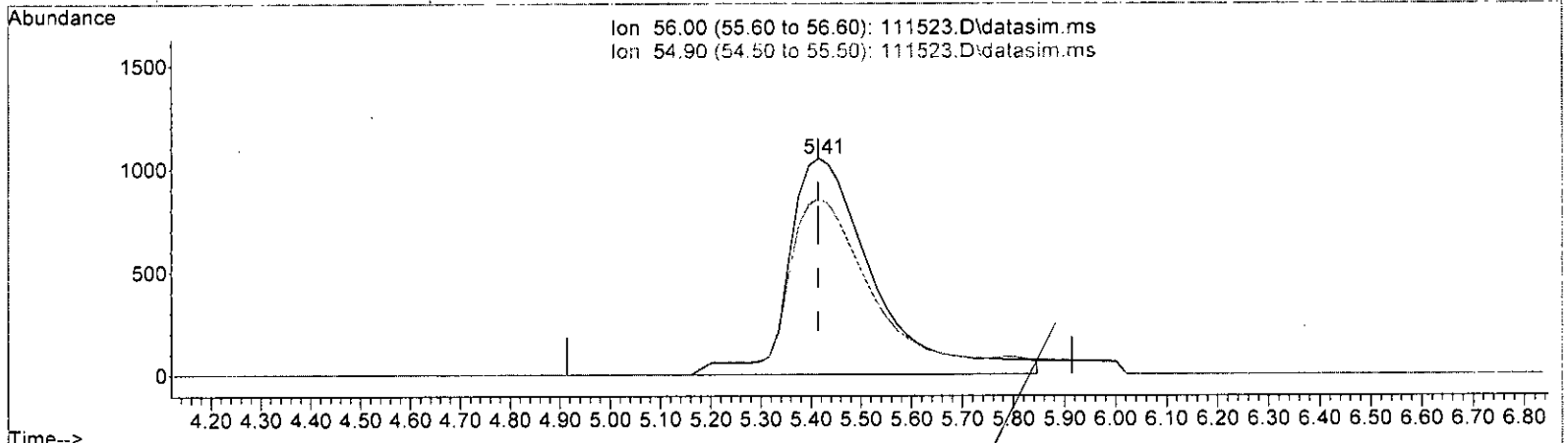
(11) Vinyl bromide (TMP)		
5.317min (+ 0.000)	2.623 ppbv m	
response	25352	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	109.26
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

(13) Acrolein (TMP)			
5.415min (-0.000) 2.973 ppbv			
response	13014		
Ion	Exp%	Act%	
56.00	100.00	100.00	
54.90	81.00	82.96	
0.00	0.00	0.00	
0.00	0.00	0.00	

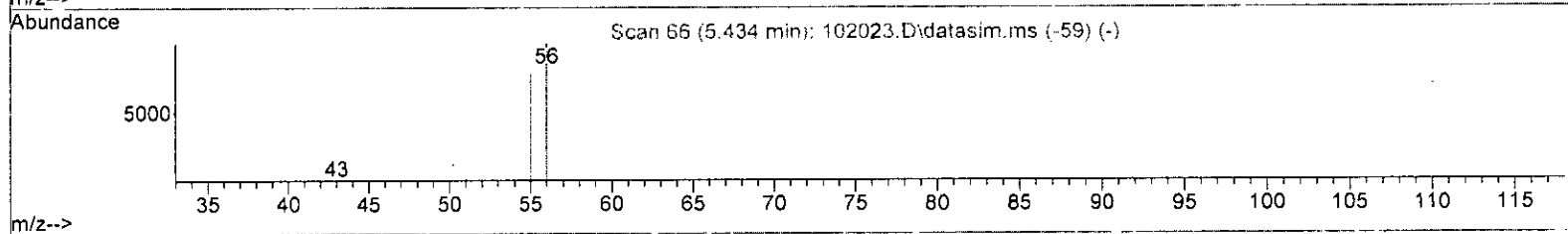
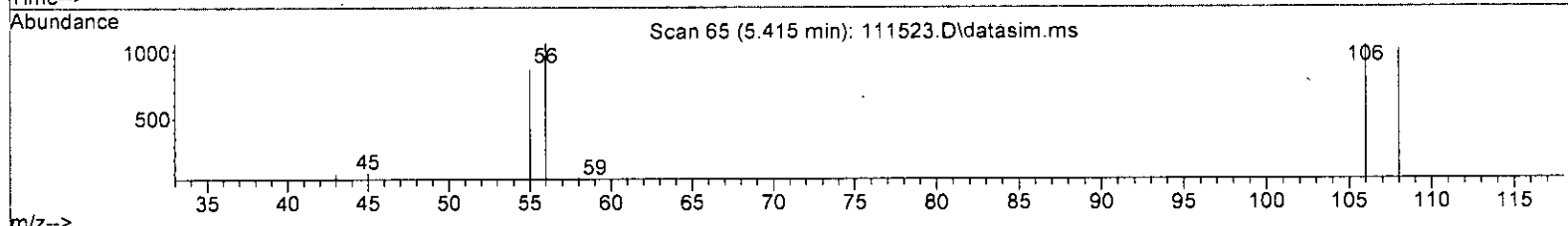
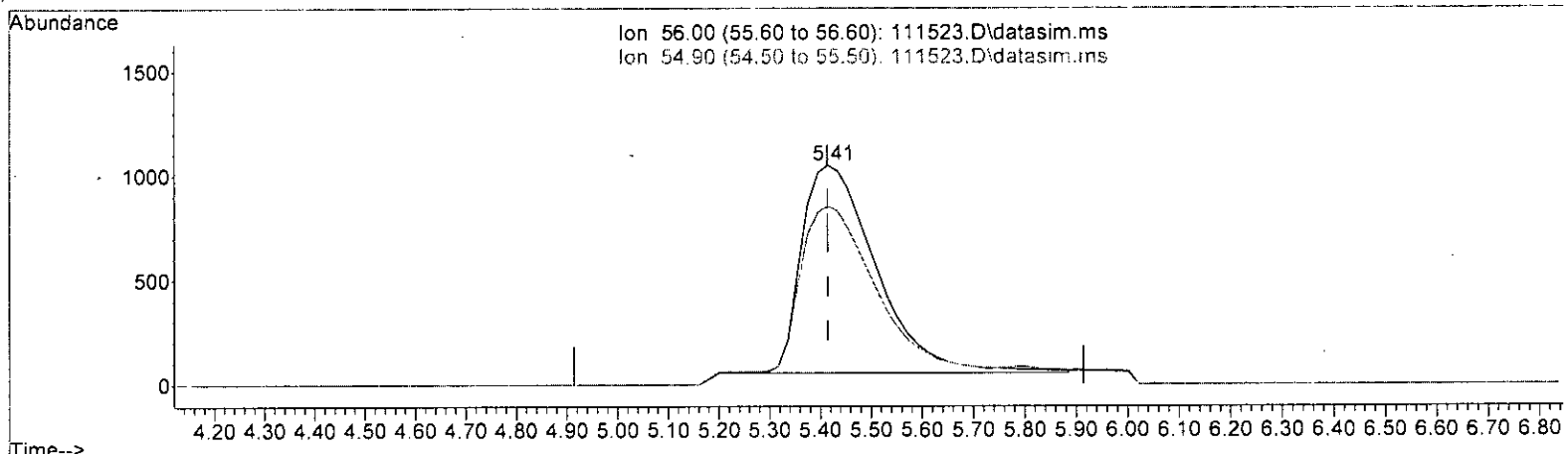
*6/11/22*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

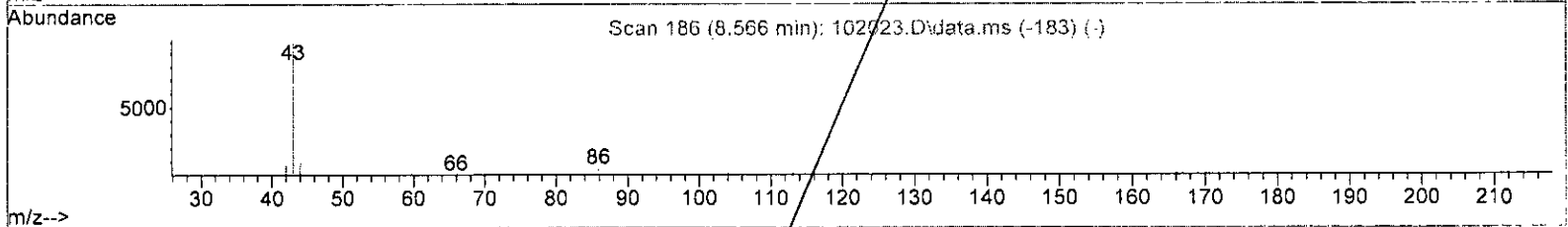
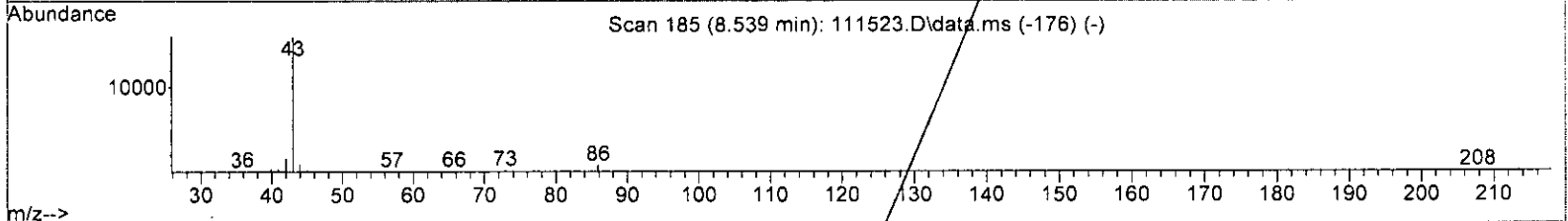
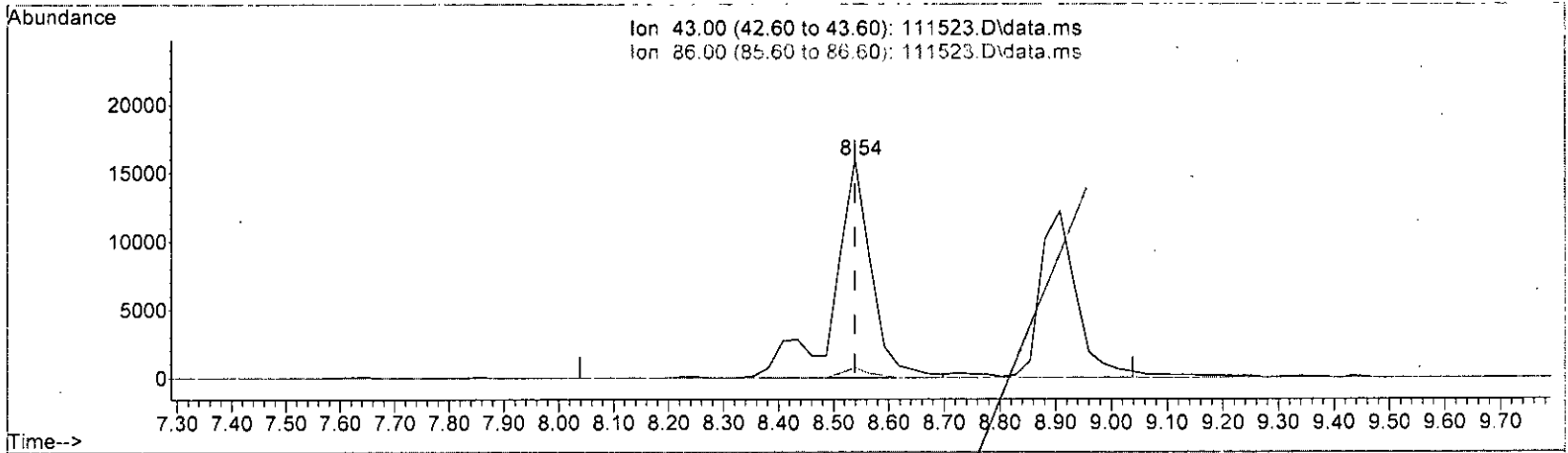
(13) Acrolein (TMP)			
5.415min (-0.000) 2.310 ppbv m			
response	10114		
Ion	Exp%	Act%	
56.00	100.00	100.00	
54.90	81.00	106.75	
0.00	0.00	0.00	
0.00	0.00	0.00	

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

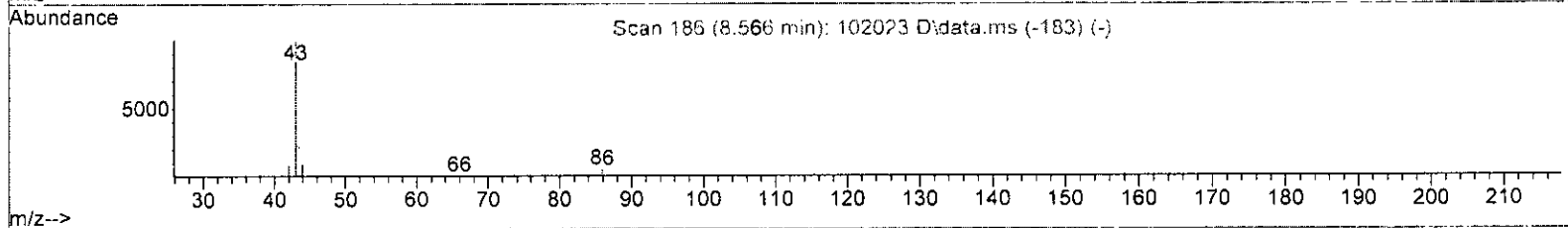
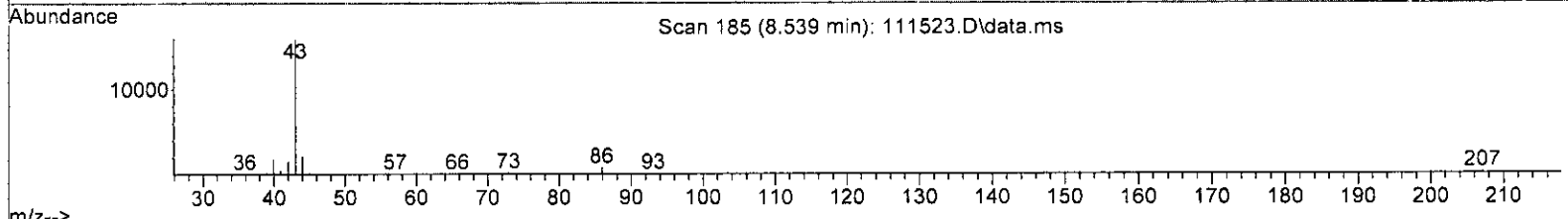
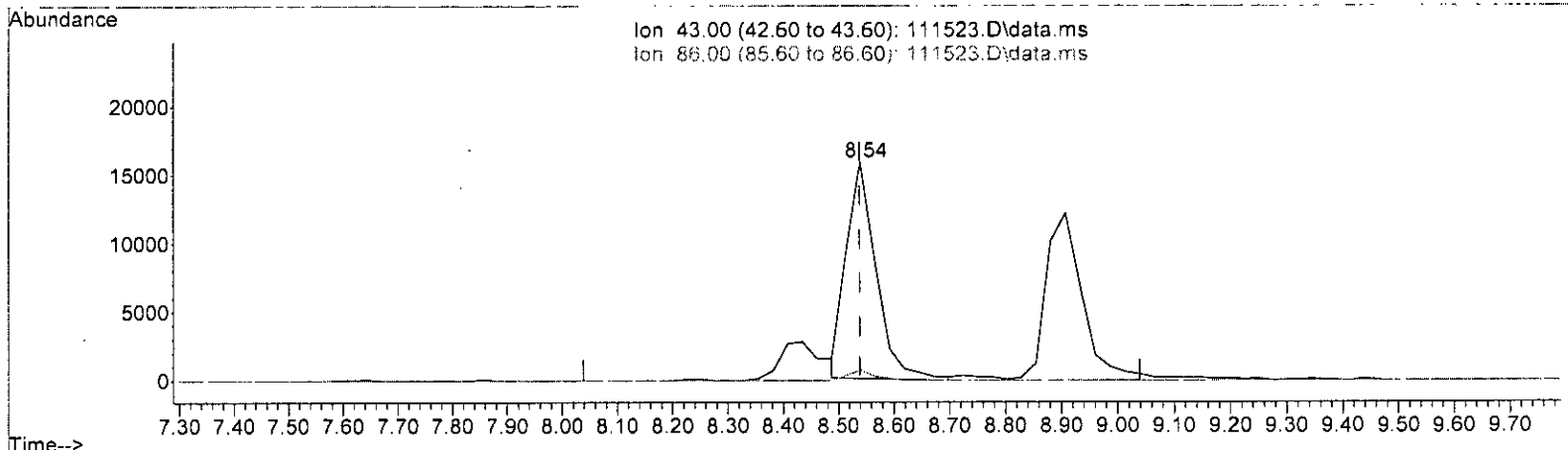
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000)	3.292 ppbv	
response	75158	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	4.80
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

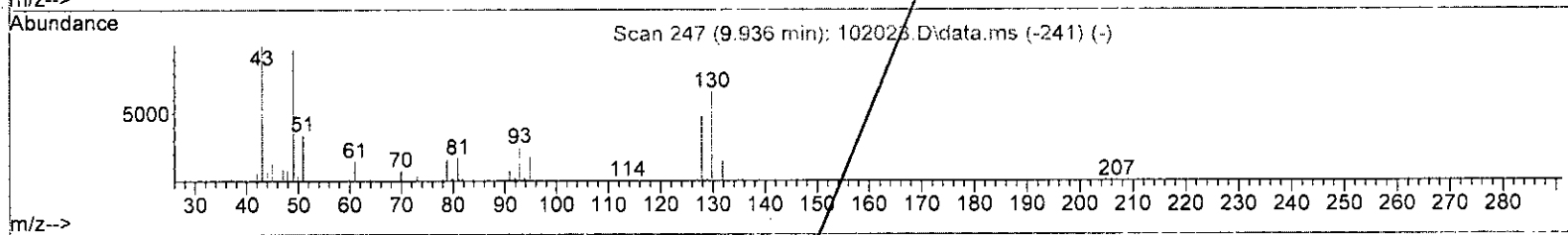
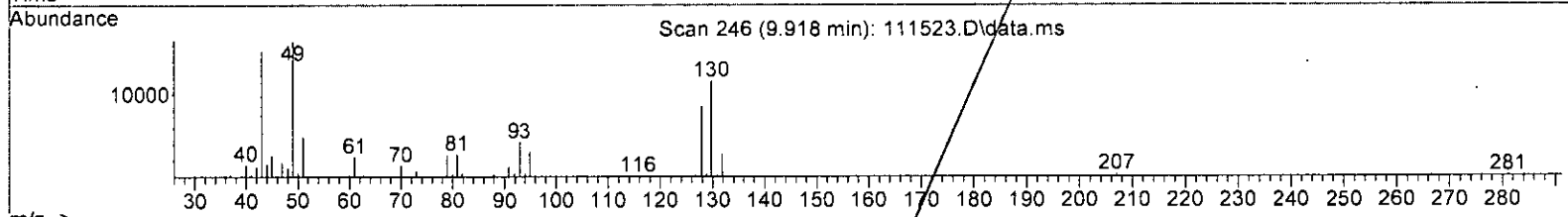
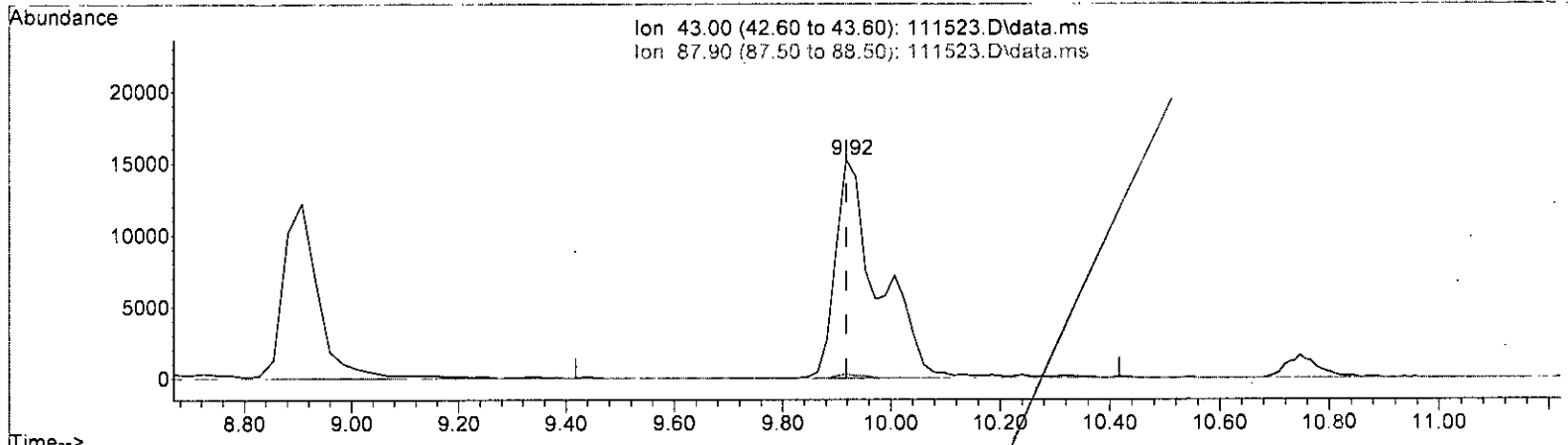
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000) 2.584 ppbv m		
response	58983	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	4.80
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

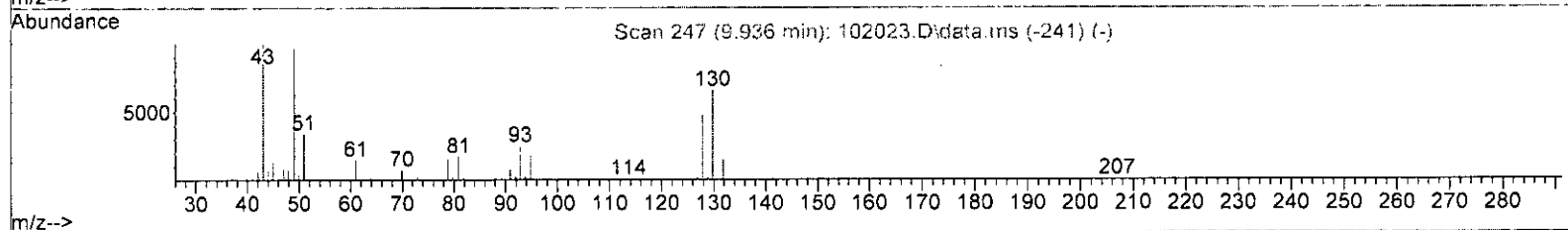
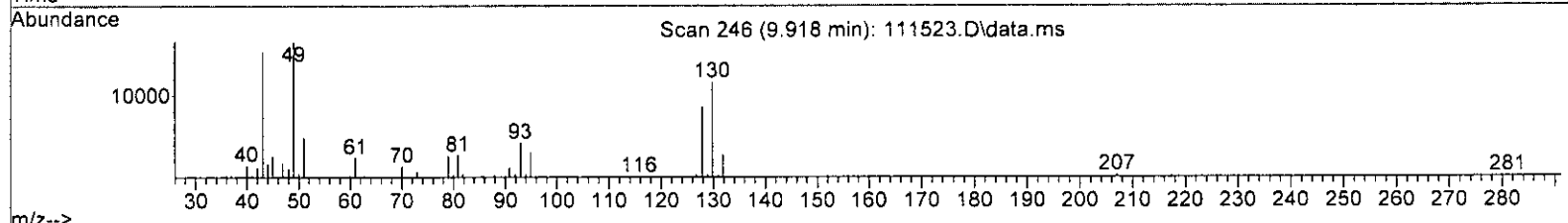
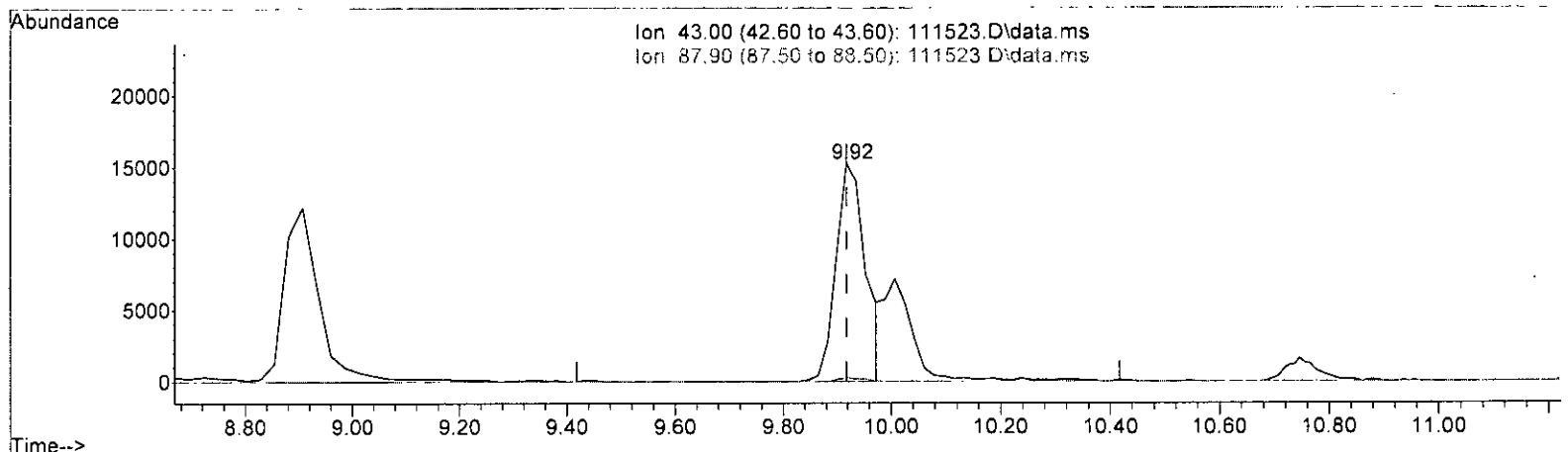
(31) Ethyl acetate (TMP)		
Time	Response	Concentration
9.918min (-0.000)	84305	3.705 ppbv
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.99#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

(31) Ethyl acetate (TMP)			
9.918min (-0.000) 2.576 ppbv m			
response	58601		
Ion	Exp%	Act%	
43.00	100.00	100.00	
87.90	1.70	1.43	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
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Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	60056	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	277968	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	243467	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	181348	10.748	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 107.50%		
Target Compounds						
						Qvalue
2) Propene	3.41	41	21323	2.683	ppbv	92
3) Dichlorodifluoromethane	3.49	85	64998	2.625	ppbv	97
4] Chloromethane	3.73	50	28666m	2.536	ppbv	
5) F-114	3.88	85	65533	2.588	ppbv	91
6] Vinyl chloride	4.09	62	27460	2.471	ppbv	99
7] 1,3-Butadiene	4.29	54	17873	2.447	ppbv #	92
8) Butane	4.32	43	34653	2.643	ppbv	99
9) Bromomethane	4.60	94	27894	2.515	ppbv	97
10] Chloroethane	4.84	64	10615m	2.701	ppbv	
11] Vinyl bromide	5.32	106	25352m	2.623	ppbv	
12) Ethanol	4.96	45	10811	2.714	ppbv	96
13] Acrolein	5.41	56	10114m	2.310	ppbv	
14) Pentane	6.25	43	39506	2.673	ppbv	99
15) Trichlorofluoromethane	5.84	101	77313	2.692	ppbv	97
16) Acetone	5.57	58	11787	2.763	ppbv #	64
17) 2-Propanol	5.78	45	47776	2.570	ppbv #	98
18] 1,1-Dichloroethene	6.63	96	24276	2.457	ppbv	90
19] trans-1,2-Dichloroethene	8.10	96	24299	2.532	ppbv #	76
20) Methylene chloride	6.80	84	24536	2.763	ppbv	98
21) t-Butyl alcohol (TBA)	6.57	59	39620	2.473	ppbv #	72
22) 3-Chloropropene	6.94	41	31275	2.533	ppbv #	88
23) CFC-113	7.15	101	56318	2.703	ppbv	99
24) Carbon disulfide	7.28	76	88234	2.844	ppbv	93
25) Methyl t-butyl ether (...)	8.43	73	55056	2.670	ppbv	98
26) Vinyl acetate	8.54	43	58983m	2.584	ppbv	
27] 1,1-Dichloroethane	8.36	63	52610	2.621	ppbv	98
28] cis-1,2-Dichloroethene	9.64	96	25628	2.525	ppbv	98
29) Hexane	10.01	57	31847	2.564	ppbv	86
30] Chloroform	10.10	83	61101	2.649	ppbv	100
31) Ethyl acetate	9.92	43	58601m	2.576	ppbv	
32) Tetrahydrofuran	10.75	42	26759	2.462	ppbv	97
33) 2-Butanone (MEK)	8.91	72	10008	2.693	ppbv #	88
34] 1,2-Dichloroethane (EDC)	11.34	62	40299	2.620	ppbv	99
35] 1,1,1-Trichloroethane	11.83	97	55317	2.755	ppbv	97
36] Carbon tetrachloride	12.86	117	57033	2.696	ppbv	98
37] Benzene	12.61	78	82709	2.633	ppbv	96
38) Cyclohexane	13.07	84	21838	2.660	ppbv	97
40] 1,2-Dichloropropane	13.80	63	38307	2.545	ppbv	99

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

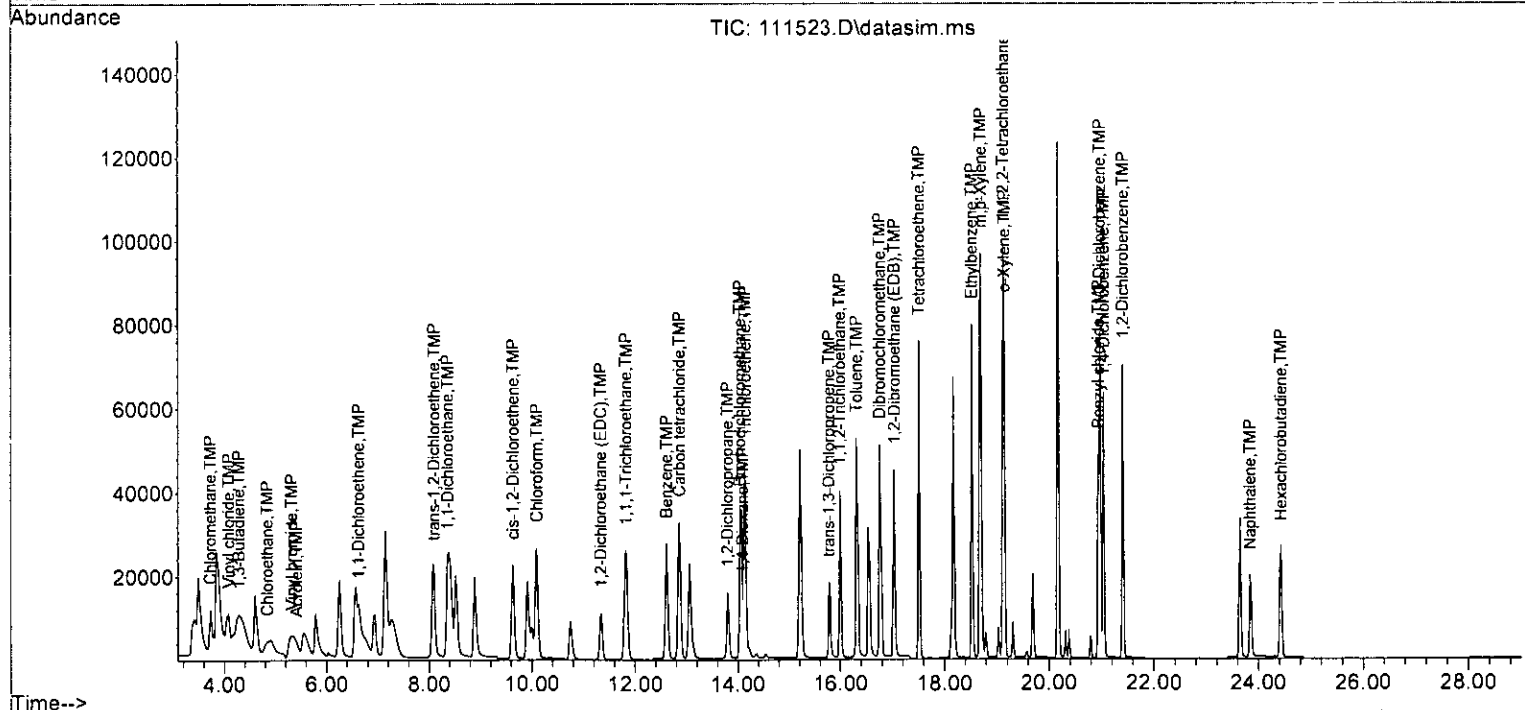
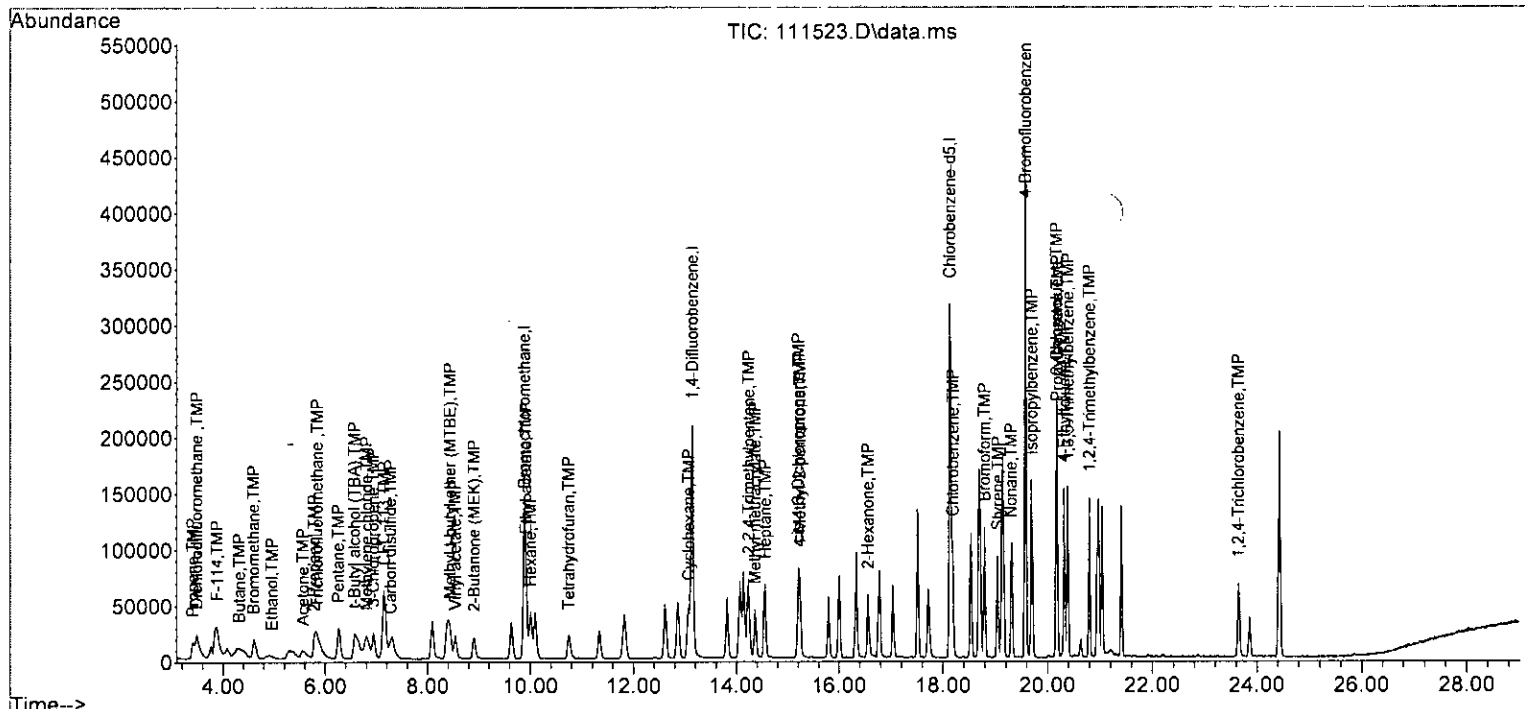
Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	15320	2.394	ppbv	80
42) 2,2,4-Trimethylpentane	14.24	57	115958	2.610	ppbv	90
43) Methyl methacrylate	14.36	41	36245	2.687	ppbv	95
44) Heptane	14.56	43	47895	2.597	ppbv	99
45] Bromodichloromethane	14.04	83	63564	2.692	ppbv	100
46] Trichloroethene	14.14	95	40195	2.438	ppbv	95
47) cis-1,3-Dichloropropene	15.20	75	45543	2.737	ppbv	96
48) 4-Methyl-2-pentanone	15.23	100	3158	2.567	ppbv #	63
49] trans-1,3-Dichloropropene	15.78	75	41889	2.676	ppbv	82
50] Toluene	16.31	92	51083	2.599	ppbv	98
51] 1,1,2-Trichloroethane	16.00	83	38068	2.658	ppbv	93
52) 2-Hexanone	16.56	43	60033	2.552	ppbv	96
53] Tetrachloroethene	17.52	164	35587	2.614	ppbv	91
54] Dibromochloromethane	16.76	129	63104	2.637	ppbv	98
55] 1,2-Dibromoethane (EDB)	17.04	107	55696	2.638	ppbv	97
57) Chlorobenzene	18.19	112	69826	2.605	ppbv	100
58] Ethylbenzene	18.53	91	114645	2.635	ppbv	97
59] 1,1,2,2-Tetrachloroethane	19.13	83	86666	2.682	ppbv	93
60) Nonane	19.30	43	64182	2.688	ppbv	97
61) Isopropylbenzene	19.70	105	121554	2.786	ppbv	100
62) 2-Chlorotoluene	20.17	126	29823	2.734	ppbv	86
63) Propylbenzene	20.19	91	226210	2.822	ppbv	99
64) 4-Ethyltoluene	20.32	105	102001	2.600	ppbv	98
65] m,p-Xylene	18.70	106	81611	5.293	ppbv	96
66] o-Xylene	19.15	106	40170	2.684	ppbv	99
67) Styrene	19.05	104	52474	2.632	ppbv	100
68) Bromoform	18.80	173	67371	2.691	ppbv	98
70] Benzyl chloride	20.95	91	75836	2.686	ppbv	99
71) 1,3,5-Trimethylbenzene	20.39	105	100545	2.848	ppbv	97
72) 1,2,4-Trimethylbenzene	20.80	105	82752	2.523	ppbv	98
73] 1,3-Dichlorobenzene	20.98	146	67062	2.722	ppbv	99
74] 1,4-Dichlorobenzene	21.05	146	61423	2.664	ppbv	99
75] 1,2-Dichlorobenzene	21.41	146	67758	2.717	ppbv	94
76) 1,2,4-Trichlorobenzene	23.64	180	33194	2.177	ppbv	93
77] Naphthalene	23.84	128	43756	2.225	ppbv	98
78] Hexachlorobutadiene	24.44	225	64925	2.553	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M





Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP	Propene	2.500	2.683	-7.3	100	0.00
3 TMP	Dichlorodifluoromethane	2.500	2.625	-5.0	100	0.00
4 TMP	Chloromethane	2.500	2.536	-1.4	101	0.00
5 TMP	F-114	2.500	2.588	-3.5	104	0.00
6 TMP	Vinyl chloride	2.500	2.471	1.2	100	0.00
7 TMP	1,3-Butadiene	2.500	2.447	2.1	100	0.00
8 TMP	Butane	2.500	2.643	-5.7	100	0.00
9 TMP	Bromomethane	2.500	2.515	-0.6	100	0.00
10 TMP	Chloroethane	2.500	2.701	-8.0	101	0.00
11 TMP	Vinyl bromide	2.500	2.623	-4.9	99	0.00
12 TMP	Ethanol	2.500	2.714	-8.6	100	0.00
13 TMP	Acrolein	2.500	2.310	7.6	102	0.00
14 TMP	Pentane	2.500	2.673	-6.9	100	0.00
15 TMP	Trichlorofluoromethane	2.500	2.692	-7.7	99	0.00
16 TMP	Acetone	2.500	2.763	-10.5	100	0.00
17 TMP	2-Propanol	2.500	2.570	-2.8	98	0.00
18 TMP	1,1-Dichloroethene	2.500	2.457	1.7	100	0.00
19 TMP	trans-1,2-Dichloroethene	2.500	2.532	-1.3	100	0.00
20 TMP	Methylene chloride	2.500	2.763	-10.5	100	0.00
21 TMP	t-Butyl alcohol (TBA)	2.500	2.473	1.1	100	0.00
22 TMP	3-Chloropropene	2.500	2.533	-1.3	100	0.00
23 TMP	CFC-113	2.500	2.703	-8.1	100	0.00
24 TMP	Carbon disulfide	2.500	2.844	-13.8	100	0.00
25 TMP	Methyl t-butyl ether (MTBE)	2.500	2.670	-6.8	100	0.00
26 TMP	Vinyl acetate	2.500	2.584	-3.4	96	0.00
27 TMP	1,1-Dichloroethane	2.500	2.621	-4.8	100	0.00
28 TMP	cis-1,2-Dichloroethene	2.500	2.525	-1.0	100	0.00
29 TMP	Hexane	2.500	2.564	-2.6	100	0.00
30 TMP	Chloroform	2.500	2.649	-6.0	100	0.00
31 TMP	Ethyl acetate	2.500	2.576	-3.0	101	0.00
32 TMP	Tetrahydrofuran	2.500	2.462	1.5	100	0.00
33 TMP	2-Butanone (MEK)	2.500	2.693	-7.7	100	0.00
34 TMP	1,2-Dichloroethane (EDC)	2.500	2.620	-4.8	100	0.00
35 TMP	1,1,1-Trichloroethane	2.500	2.755	-10.2	100	0.00
36 TMP	Carbon tetrachloride	2.500	2.696	-7.8	100	0.00
37 TMP	Benzene	2.500	2.633	-5.3	100	0.00
38 TMP	Cyclohexane	2.500	2.660	-6.4	100	0.00
39 I	1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	2.500	2.545	-1.8	100	0.00
41 TMP	1,4-Dioxane	2.500	2.394	4.2	100	0.00
42 TMP	2,2,4-Trimethylpentane	2.500	2.610	-4.4	100	0.00
43 TMP	Methyl methacrylate	2.500	2.687	-7.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	2.500	2.597	-3.9	100	0.00
45 TMP Bromodichloromethane	2.500	2.692	-7.7	100	0.00
46 TMP Trichloroethene	2.500	2.438	2.5	100	0.00
47 TMP cis-1,3-Dichloropropene	2.500	2.737	-9.5	100	0.00
48 TMP 4-Methyl-2-pentanone	2.500	2.567	-2.7	100	0.00
49 TMP trans-1,3-Dichloropropene	2.500	2.676	-7.0	100	0.00
50 TMP Toluene	2.500	2.599	-4.0	100	0.00
51 TMP 1,1,2-Trichloroethane	2.500	2.658	-6.3	100	0.00
52 TMP 2-Hexanone	2.500	2.552	-2.1	100	0.00
53 TMP Tetrachloroethene	2.500	2.614	-4.6	100	0.00
54 TMP Dibromochloromethane	2.500	2.637	-5.5	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	2.500	2.638	-5.5	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	2.500	2.605	-4.2	100	0.00
58 TMP Ethylbenzene	2.500	2.635	-5.4	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	2.500	2.682	-7.3	100	0.00
60 TMP Nonane	2.500	2.688	-7.5	100	0.00
61 TMP Isopropylbenzene	2.500	2.786	-11.4	100	0.00
62 TMP 2-Chlorotoluene	2.500	2.734	-9.4	100	0.00
63 TMP Propylbenzene	2.500	2.822	-12.9	100	0.00
64 TMP 4-Ethyltoluene	2.500	2.600	-4.0	100	0.00
65 TMP m,p-Xylene	5.000	5.293	-5.9	100	0.00
66 TMP o-Xylene	2.500	2.684	-7.4	100	0.00
67 TMP Styrene	2.500	2.632	-5.3	100	0.00
68 TMP Bromoform	2.500	2.691	-7.6	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.748	-7.5	100	0.00
70 TMP Benzyl chloride	2.500	2.686	-7.4	101	0.00
71 TMP 1,3,5-Trimethylbenzene	2.500	2.848	-13.9	100	0.00
72 TMP 1,2,4-Trimethylbenzene	2.500	2.523	-0.9	100	0.00
73 TMP 1,3-Dichlorobenzene	2.500	2.722	-8.9	100	0.00
74 TMP 1,4-Dichlorobenzene	2.500	2.664	-6.6	100	0.00
75 TMP 1,2-Dichlorobenzene	2.500	2.717	-8.7	100	0.00
76 TMP 1,2,4-Trichlorobenzene	2.500	2.177	12.9	100	0.00
77 TMP Naphthalene	2.500	2.225	11.0	100	0.00
78 TMP Hexachlorobutadiene	2.500	2.553	-2.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.420	8.7	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.329	-5.0	100	0.00
4 TMP Chloromethane	1.882	1.909	-1.4	101	0.00
5 TMP F-114	4.217	4.365	-3.5	104	0.00
6 TMP Vinyl chloride	1.851	1.829	1.2	100	0.00
7 TMP 1,3-Butadiene	1.216	1.190	2.1	100	0.00
8 TMP Butane	2.183	2.308	-5.7	100	0.00
9 TMP Bromomethane	1.847	1.858	-0.6	100	0.00
10 TMP Chloroethane	0.655	0.707	-7.9	101	0.00
11 TMP Vinyl bromide	1.609	1.689	-5.0	99	0.00
12 TMP Ethanol	0.663	0.720	-8.6	100	0.00
13 TMP Acrolein	0.729	0.674	7.5	102	0.00
14 TMP Pentane	2.461	2.631	-6.9	100	0.00
15 TMP Trichlorofluoromethane	4.781	5.149	-7.7	99	0.00
16 TMP Acetone	0.710	0.785	-10.6	100	0.00
17 TMP 2-Propanol	3.096	3.182	-2.8	98	0.00
18 TMP 1,1-Dichloroethene	1.645	1.617	1.7	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.618	-1.3	100	0.00
20 TMP Methylene chloride	1.479	1.634	-10.5	100	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.639	1.1	100	0.00
22 TMP 3-Chloropropene	2.056	2.083	-1.3	100	0.00
23 TMP CFC-113	3.469	3.751	-8.1	100	0.00
24 TMP Carbon disulfide	5.167	5.877	-13.7	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.667	-6.8	100	0.00
26 TMP Vinyl acetate	3.801	3.929	-3.4	96	0.00
27 TMP 1,1-Dichloroethane	3.342	3.504	-4.8	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.707	-1.0	100	0.00
29 TMP Hexane	2.068	2.121	-2.6	100	0.00
30 TMP Chloroform	4.060	4.070	-0.2	100	0.00
31 TMP Ethyl acetate	3.789	3.903	-3.0	101	0.00
32 TMP Tetrahydrofuran	1.809	1.782	1.5	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.667	-7.8	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.684	0.1	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.684	-10.2	100	0.00
36 TMP Carbon tetrachloride	3.523	3.799	-7.8	100	0.00
37 TMP Benzene	5.688	5.509	3.1	100	0.00
38 TMP Cyclohexane	1.367	1.455	-6.4	100	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.551	-1.8	100	0.00
41 TMP 1,4-Dioxane	0.230	0.220	4.3	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.669	-4.4	100	0.00
43 TMP Methyl methacrylate	0.485	0.522	-7.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.689	-3.9	100	0.00
45 TMP Bromodichloromethane	0.850	0.915	-7.6	100	0.00
46 TMP Trichloroethene	0.593	0.578	2.5	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.655	-9.3	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.045	-2.3	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.603	-7.1	100	0.00
50 TMP Toluene	0.707	0.735	-4.0	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.548	0.4	100	0.00
52 TMP 2-Hexanone	0.846	0.864	-2.1	100	0.00
53 TMP Tetrachloroethene	0.490	0.512	-4.5	100	0.00
54 TMP Dibromochloromethane	0.861	0.908	-5.5	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.801	2.8	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.147	-4.2	100	0.00
58 TMP Ethylbenzene	1.968	1.884	4.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.424	-2.2	100	0.00
60 TMP Nonane	0.981	1.054	-7.4	100	0.00
61 TMP Isopropylbenzene	1.792	1.997	-11.4	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.490	-9.4	100	0.00
63 TMP Propylbenzene	3.292	3.716	-12.9	100	0.00
64 TMP 4-Ethyltoluene	1.611	1.676	-4.0	100	0.00
65 TMP m,p-Xylene	0.633	0.670	-5.8	100	0.00
66 TMP o-Xylene	0.615	0.660	-7.3	100	0.00
67 TMP Styrene	0.819	0.862	-5.3	100	0.00
68 TMP Bromoform	1.028	1.107	-7.7	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.745	-7.5	100	0.00
70 TMP Benzyl chloride	0.987	1.246	-26.2	101	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.652	-13.9	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.360	-9.1	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.102	-8.9	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.009	-6.5	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.113	-8.7	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.545	12.9	100	0.00
77 TMP Naphthalene	1.132	0.719	36.5#	100	0.00
78 TMP Hexachlorobutadiene	1.045	1.067	-2.1	100	0.00

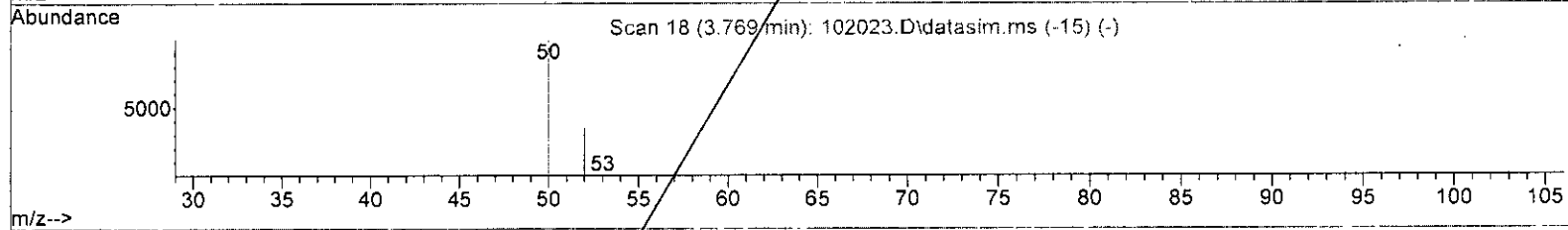
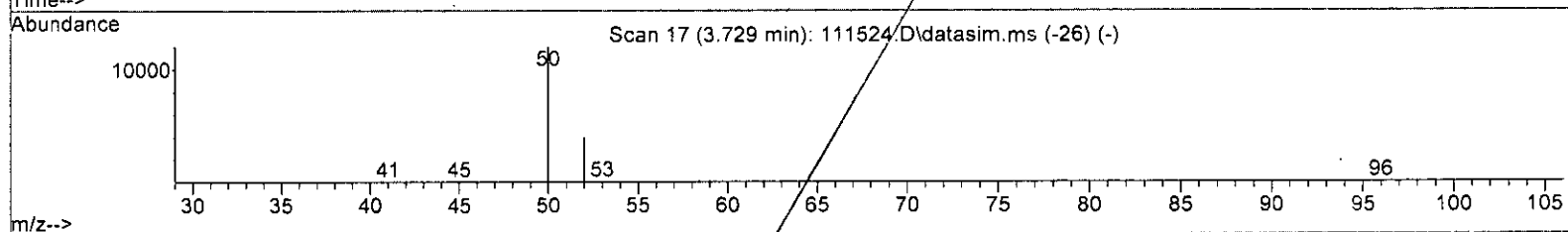
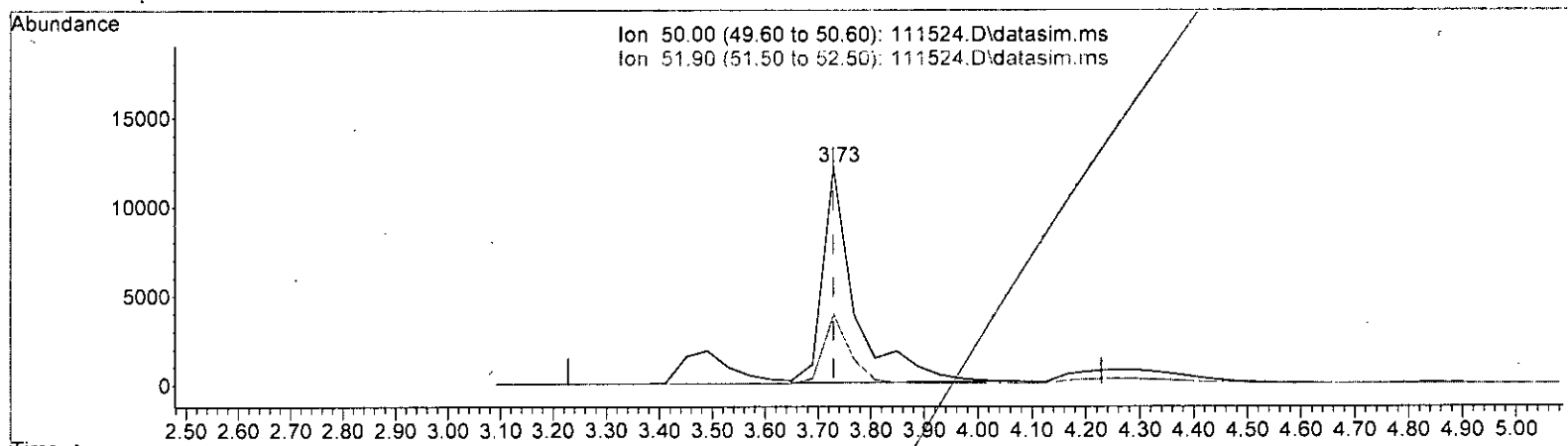
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111524.D\data.ms

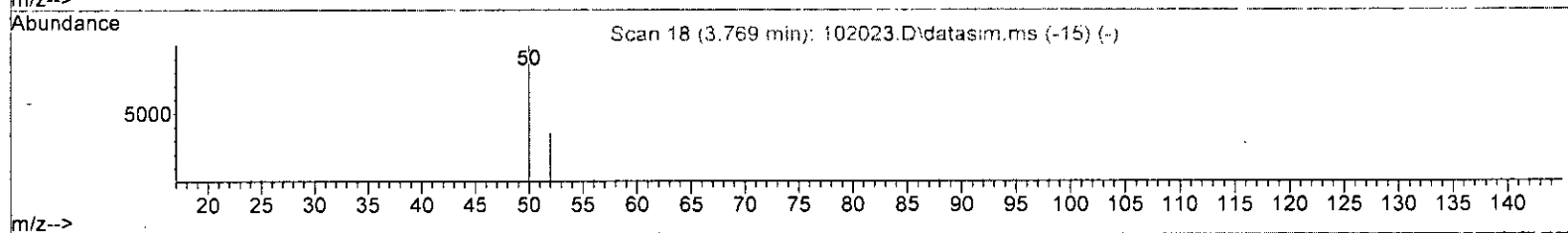
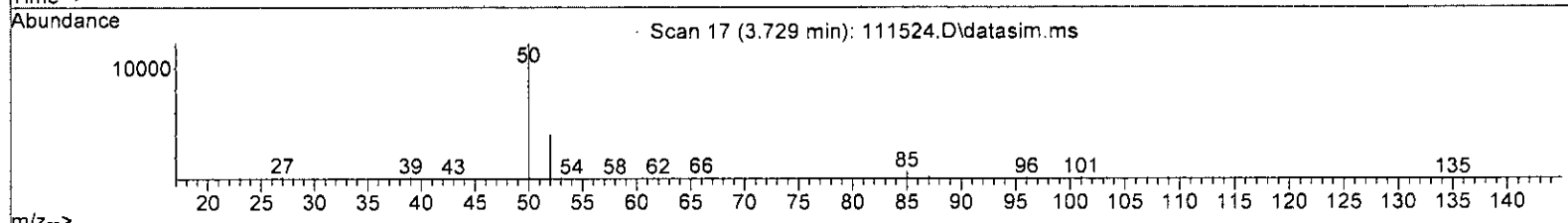
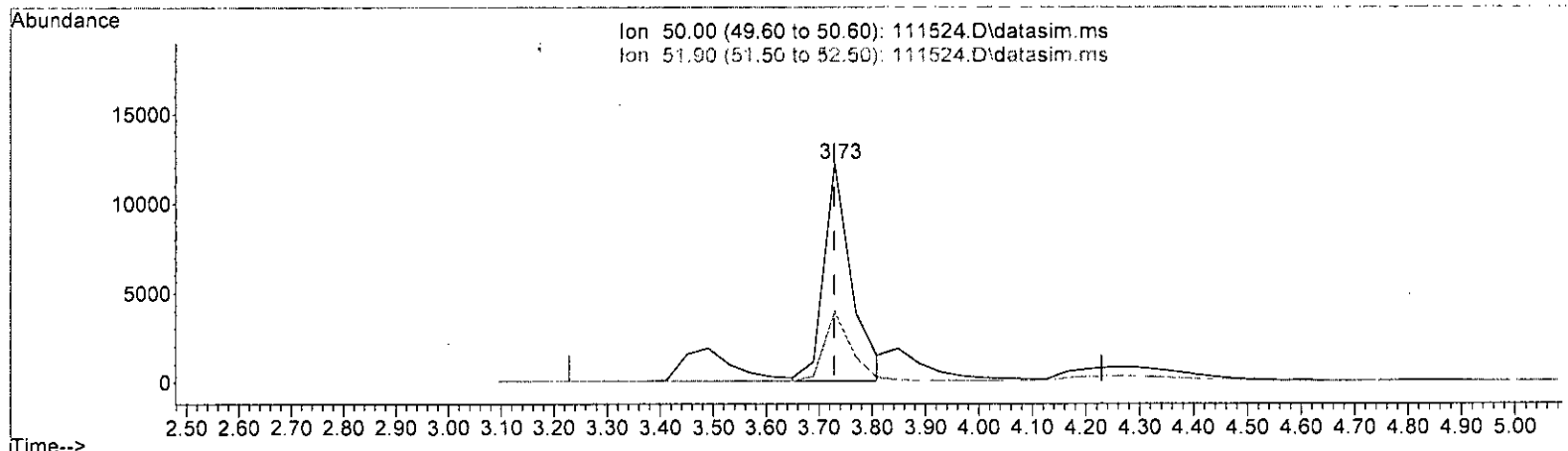
(4) Chloromethane (TMP)			
3.729min (+ 0.000)		4.481 ppbv	
response		51560	
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	32.34	
0.00	0.00	0.00	
0.00	0.00	0.00	

4/1/2022

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111524.D\data.ms

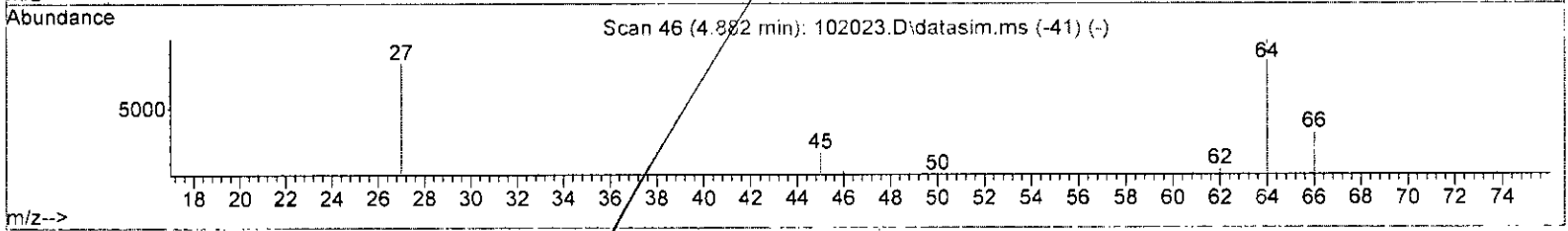
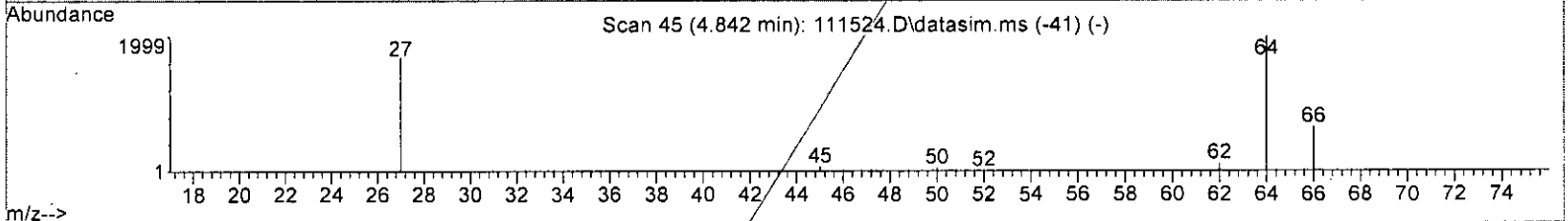
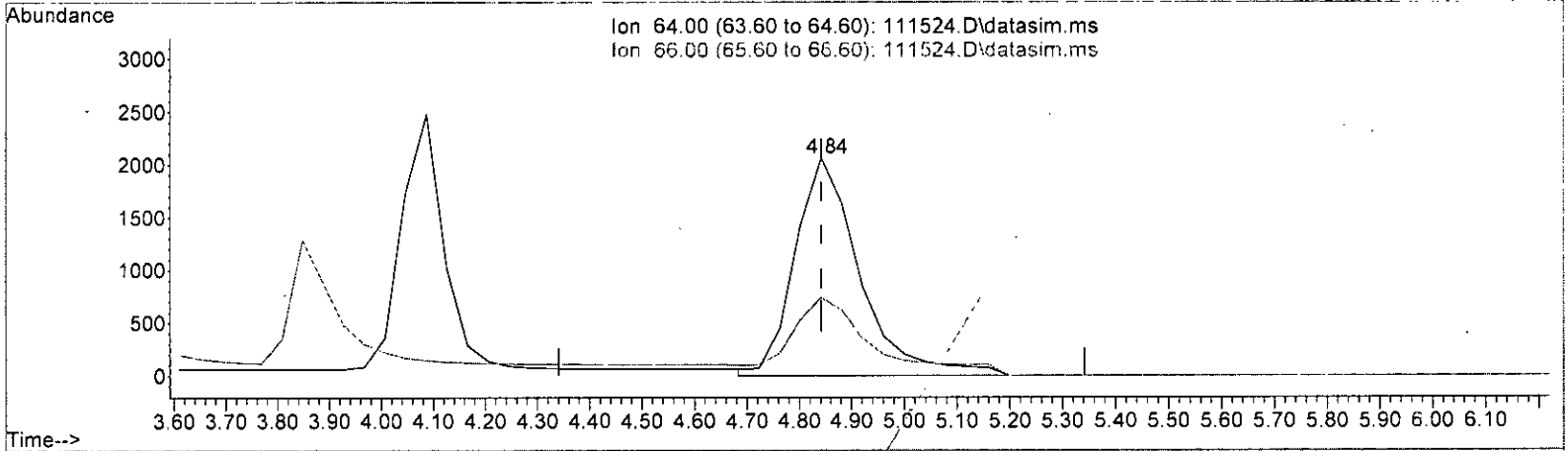
(4) Chloromethane (TMP)			
	3.729min (+ 0.000)	3.839	ppbv m
response	44175		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	32.44	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111524.D\data.ms

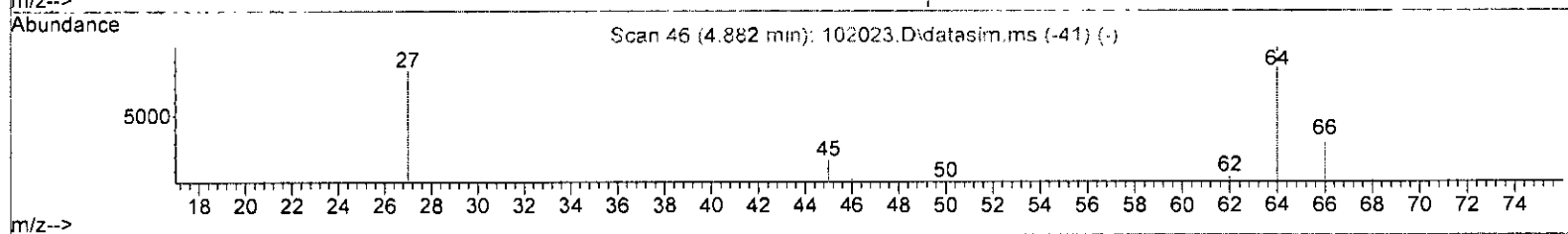
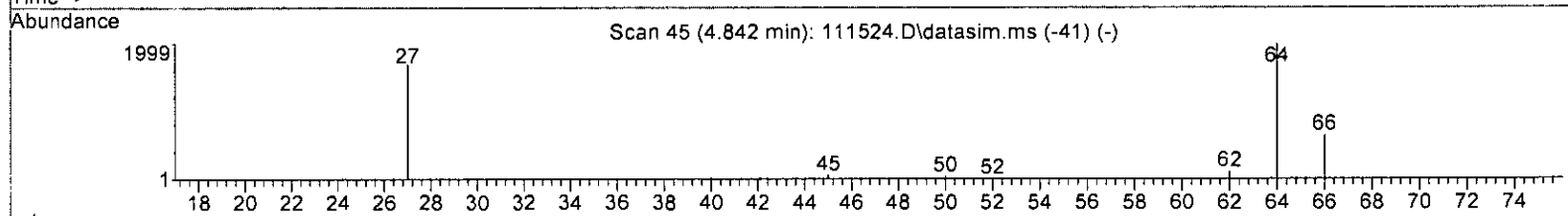
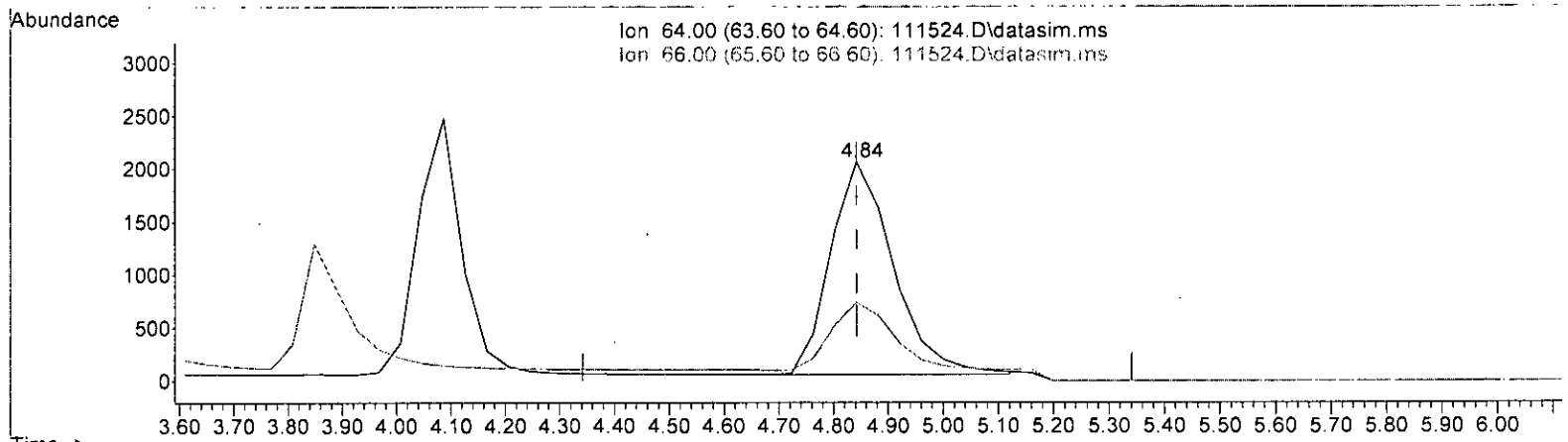
(10) Chloroethane (TMP)		
4.842min (-0.000)	4.267 ppbv	
response	17070	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	35.90
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature and date: 11/16/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111524.D\data.ms

(10) Chloroethane (TMP)			
4.842min (-0.000) 3.999 ppbv m			
response	16000		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	31.80	35.90	
0.00	0.00	0.00	
0.00	0.00	0.00	

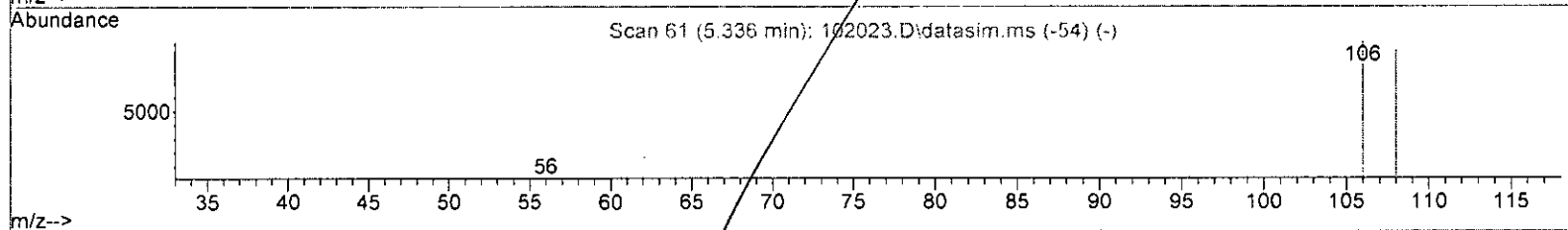
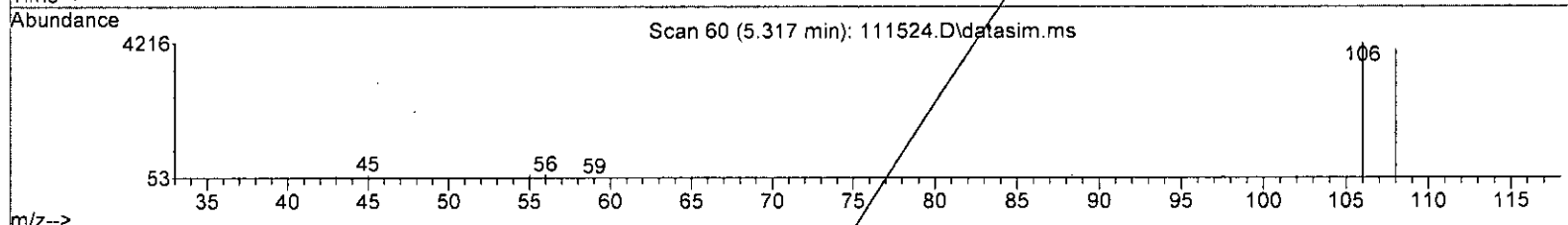
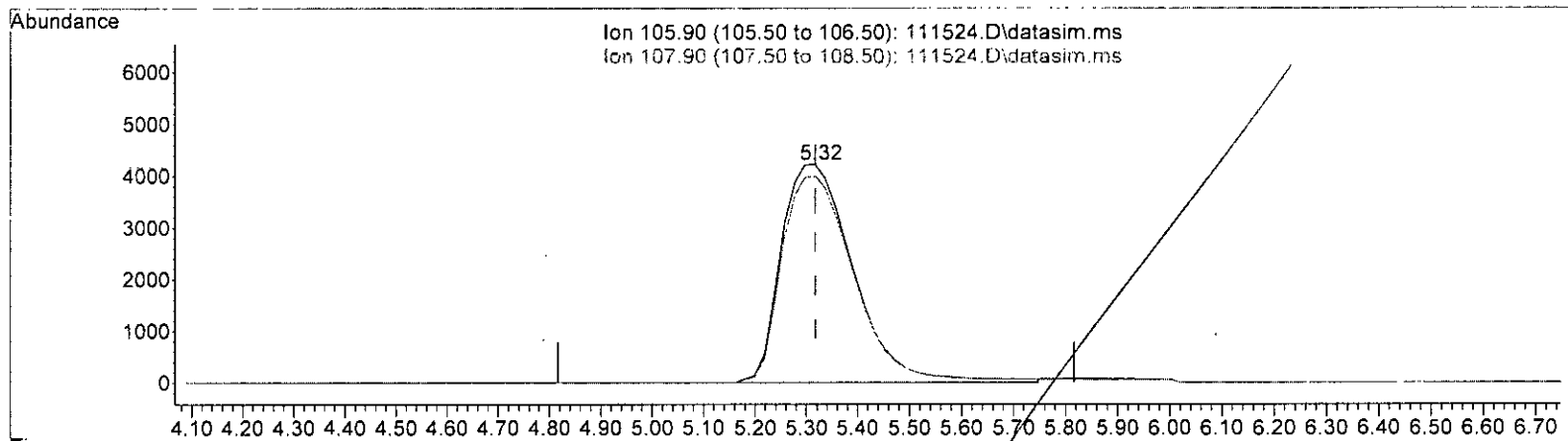
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111524.D\data.ms

(11) Vinyl bromide (TMP)  
 5.317min (-0.000) 4.476 ppbv

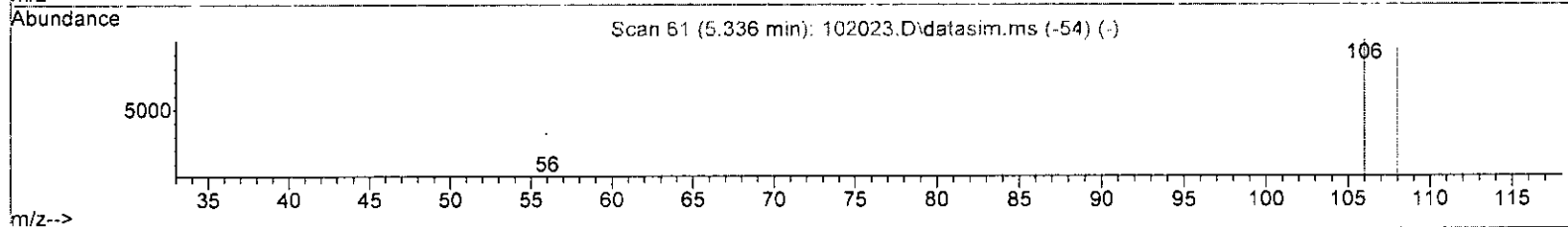
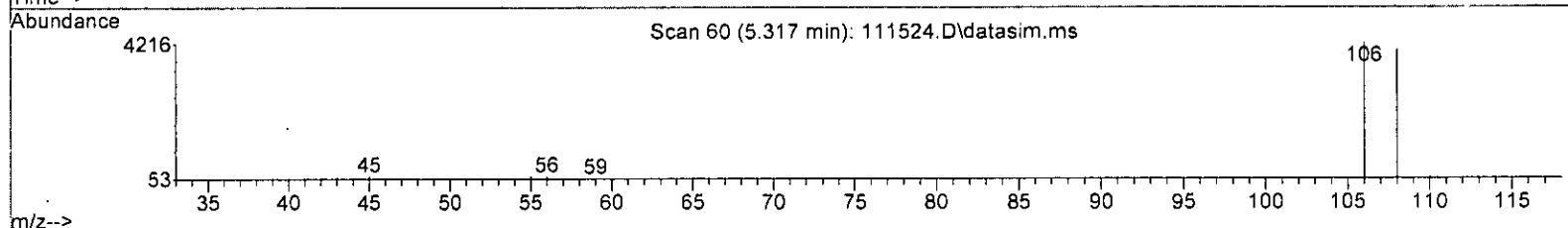
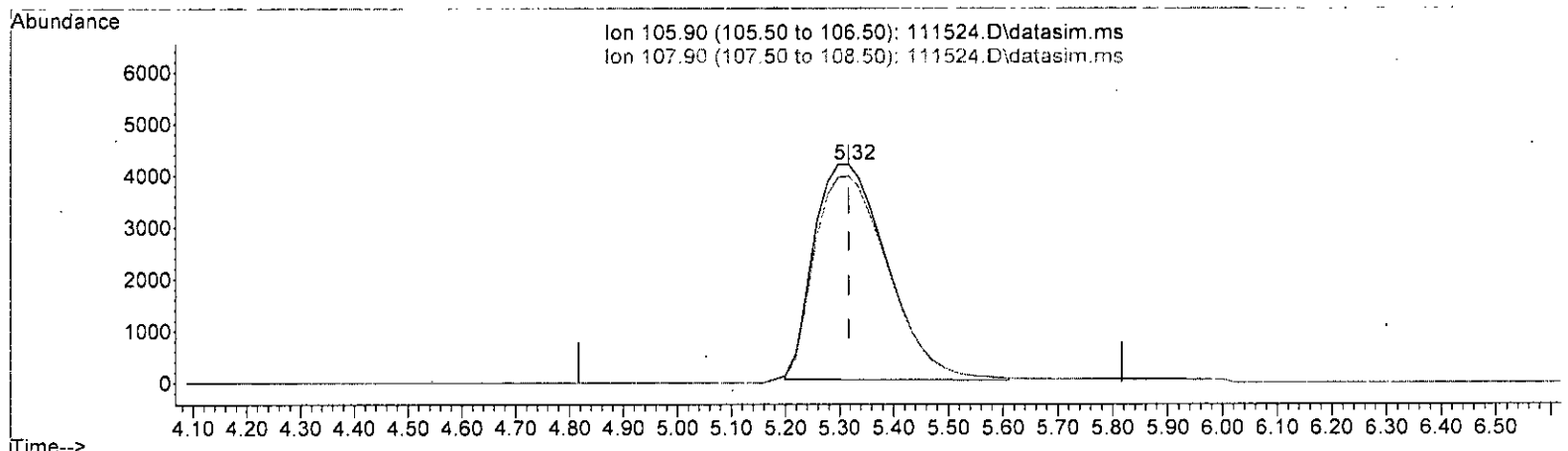
response	44033
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 94.68
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111524.D\data.ms

(11) Vinyl bromide (TMP)

5.317min (-0.000) 3.982 ppbv m

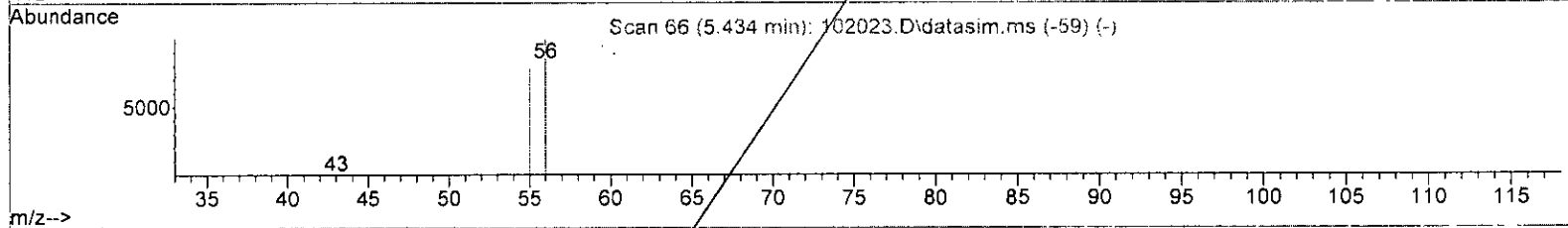
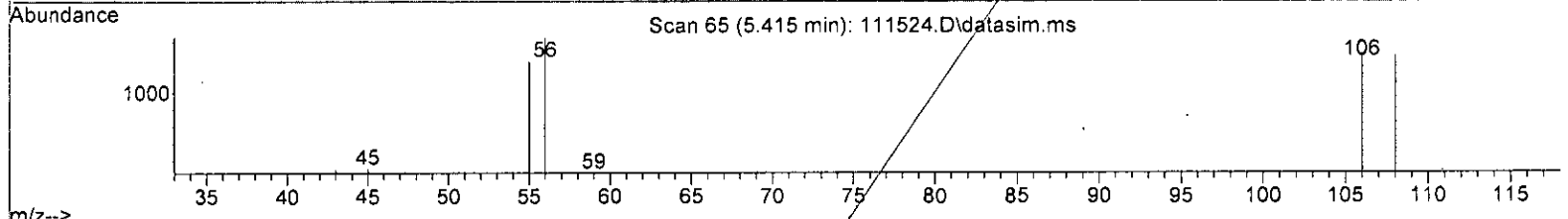
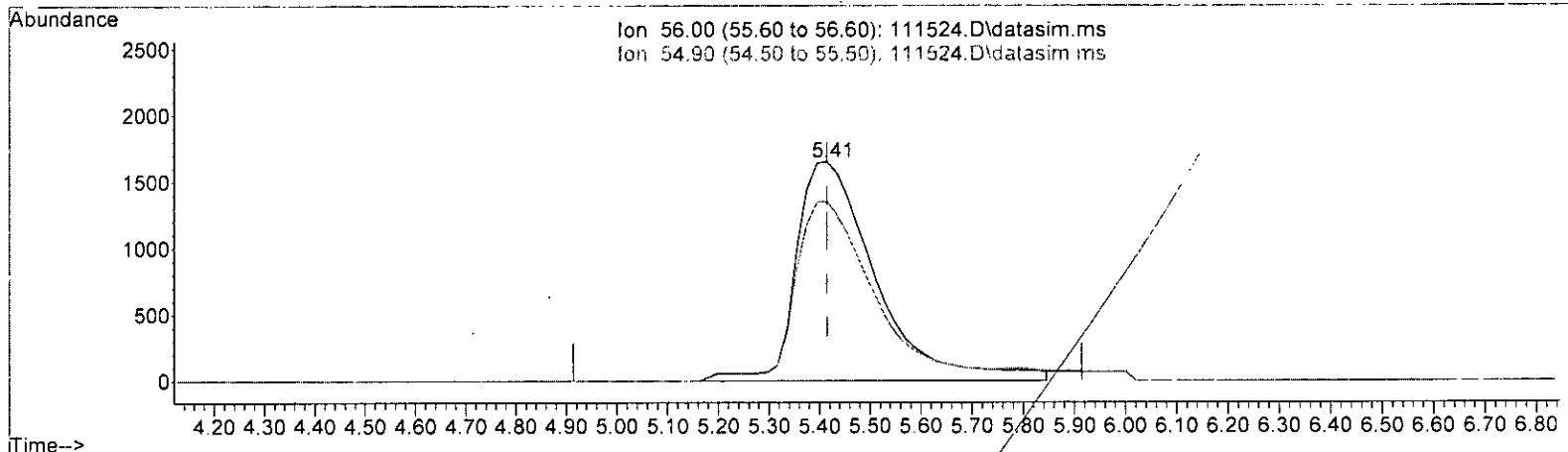
response	39173	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	106.42
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111524.D\data.ms

(13) Acrolein (TMP)  
 5.415min (-0.000) 4.283 ppbv

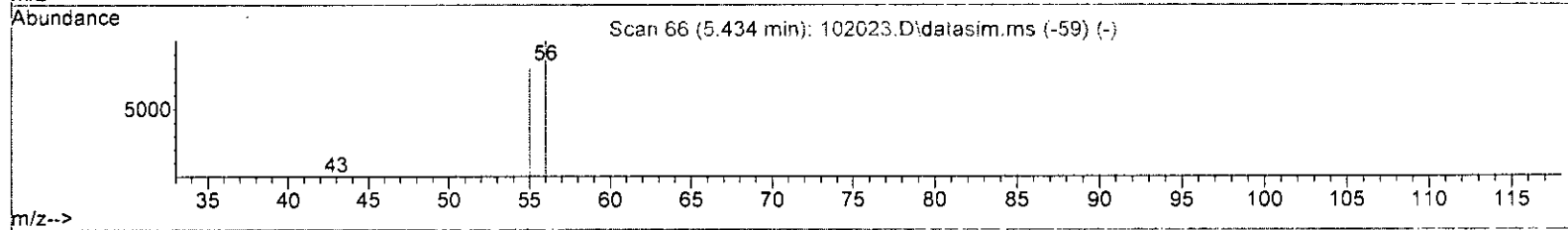
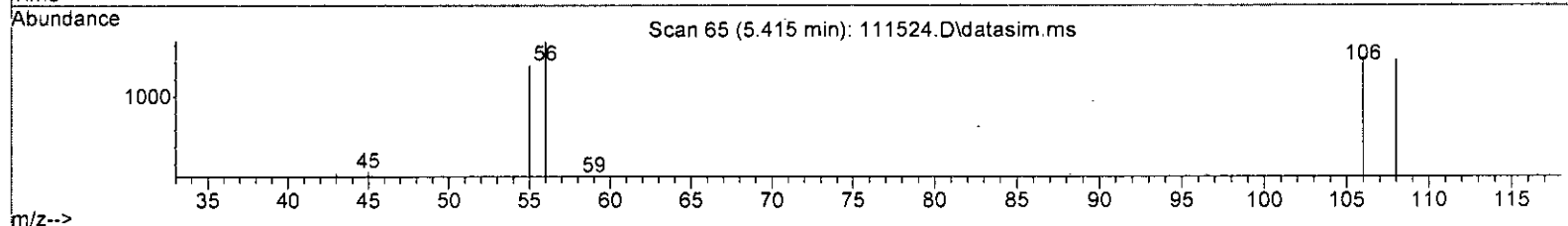
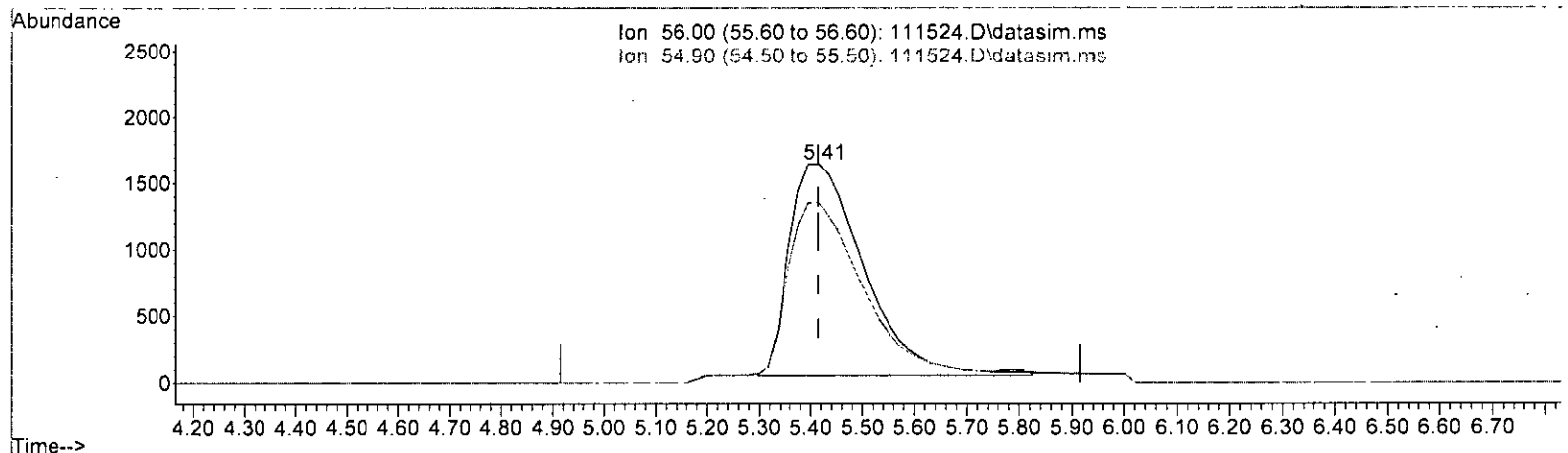
response	19080	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	69.88
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111524.D\data.ms

(13) Acrolein (TMP)

5.415min (-0.000) 3.543 ppbv m

response	15785
Ion	Exp% Act%
56.00	100.00 100.00
54.90	81.00 84.47
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	61124	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	281759	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	251020	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	183725	10.561	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	105.60%
Target Compounds						
					Qvalue	
2) Propene	3.41	41	33189	4.126	ppbv	100
3) Dichlorodifluoromethane	3.48	85	101066	4.011	ppbv	98
4] Chloromethane	3.73	50	44175m	3.839	ppbv	
5) F-114	3.84	85	102348	3.971	ppbv	97
6] Vinyl chloride	4.09	62	42585	3.765	ppbv	98
7] 1,3-Butadiene	4.25	54	27707	3.728	ppbv #	92
8) Butane	4.36	43	53087	3.979	ppbv	98
9) Bromomethane	4.60	94	41370	3.664	ppbv	99
10] Chloroethane	4.84	64	16000m	3.999	ppbv	
11] Vinyl bromide	5.32	106	39173m	3.982	ppbv	
12) Ethanol	4.96	45	15931	3.930	ppbv	99
13] Acrolein	5.41	56	15785m	3.543	ppbv	
14) Pentane	6.25	43	62202	4.136	ppbv	100
15) Trichlorofluoromethane	5.84	101	118785	4.064	ppbv	96
16) Acetone	5.57	58	15999	3.684	ppbv	100
17) 2-Propanol	5.78	45	73060	3.861	ppbv #	96
18] 1,1-Dichloroethene	6.63	96	37128	3.692	ppbv	97
19] trans-1,2-Dichloroethene	8.10	96	37324	3.822	ppbv #	71
20) Methylene chloride	6.80	84	35947	3.977	ppbv	96
21) t-Butyl alcohol (TBA)	6.57	59	65955	4.045	ppbv #	75
22) 3-Chloropropene	6.94	41	51518	4.099	ppbv	99
23) CFC-113	7.15	101	86782	4.092	ppbv	98
24) Carbon disulfide	7.28	76	131377	4.160	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	83436	3.975	ppbv	99
26) Vinyl acetate	8.54	43	98130	4.224	ppbv	100
27] 1,1-Dichloroethane	8.36	63	80066	3.919	ppbv	99
28] cis-1,2-Dichloroethene	9.64	96	39575	3.831	ppbv	98
29) Hexane	10.01	57	51441	4.069	ppbv	99
30] Chloroform	10.08	83	92826	3.992	ppbv	96
31) Ethyl acetate	9.92	43	95307	4.116	ppbv #	99
32) Tetrahydrofuran	10.74	42	42555	3.848	ppbv	100
33) 2-Butanone (MEK)	8.88	72	15844	4.188	ppbv #	86
34] 1,2-Dichloroethane (EDC)	11.34	62	62822	4.045	ppbv	100
35] 1,1,1-Trichloroethane	11.83	97	83493	4.085	ppbv	97
36] Carbon tetrachloride	12.86	117	87121	4.046	ppbv	98
37] Benzene	12.61	78	126249	3.997	ppbv	95
38) Cyclohexane	13.07	84	33443	4.002	ppbv	97
40] 1,2-Dichloropropane	13.80	63	59183	3.879	ppbv	99

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

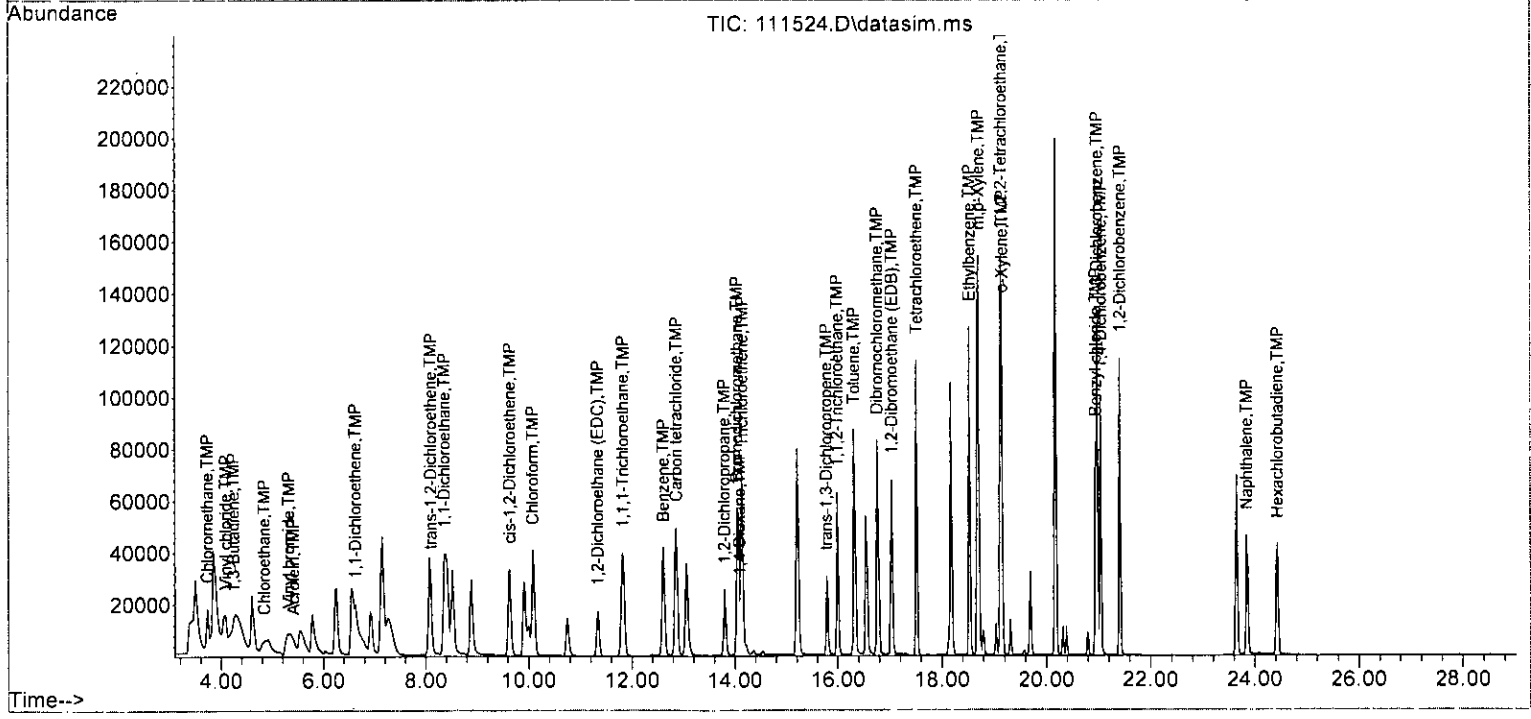
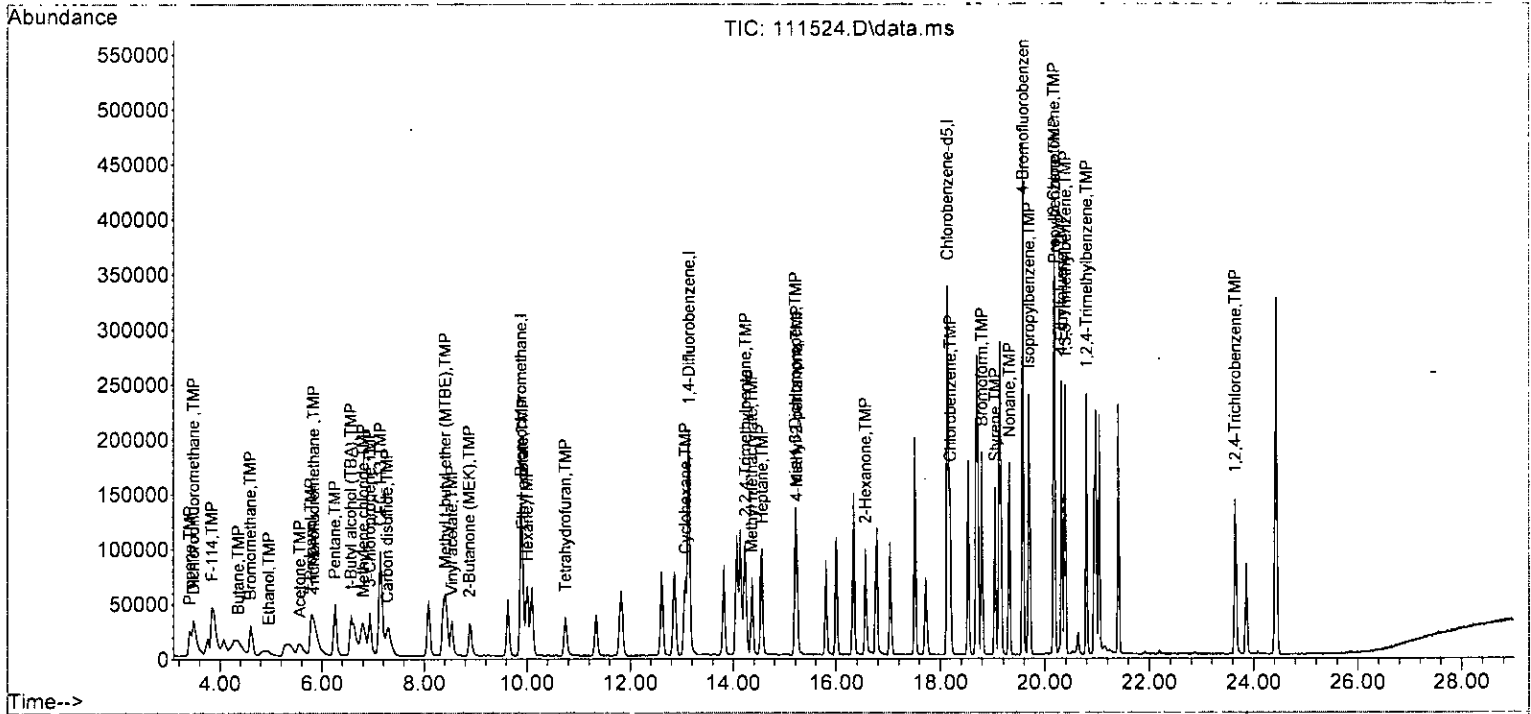
Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 5S method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	24576	3.788	ppbv	74
42] 2,2,4-Trimethylpentane	14.24	57	181987	4.041	ppbv	95
43] Methyl methacrylate	14.36	41	55200	4.037	ppbv	99
44] Heptane	14.56	43	74628	3.992	ppbv	97
45] Bromodichloromethane	14.04	83	97853	4.088	ppbv	100
46] Trichloroethene	14.14	95	61647	3.689	ppbv	93
47] cis-1,3-Dichloropropene	15.20	75	71047	4.212	ppbv	96
48] 4-Methyl-2-pentanone	15.23	100	5072	4.068	ppbv #	95
49] trans-1,3-Dichloropropene	15.78	75	66217	4.173	ppbv	82
50] Toluene	16.31	92	78968	3.964	ppbv	96
51] 1,1,2-Trichloroethane	16.00	83	58159	4.058	ppbv	92
52] 2-Hexanone	16.56	43	97830	4.103	ppbv	97
53] Tetrachloroethene	17.52	164	53751	3.895	ppbv	91
54] Dibromochloromethane	16.76	129	99446	4.100	ppbv	99
55] 1,2-Dibromoethane (EDB)	17.04	107	84835	4.008	ppbv	99
57] Chlorobenzene	18.19	112	107291	3.883	ppbv	98
58] Ethylbenzene	18.53	91	179483	4.024	ppbv	97
59] 1,1,2,2-Tetrachloroethane	19.13	83	133481	4.056	ppbv	93
60] Nonane	19.32	43	107897	4.383	ppbv	97
61] Isopropylbenzene	19.70	105	184276	4.097	ppbv	97
62] 2-Chlorotoluene	20.17	126	46312	4.118	ppbv	94
63] Propylbenzene	20.19	91	365253	4.420	ppbv	100
64] 4-Ethyltoluene	20.32	105	170650	4.219	ppbv	99
65] m,p-Xylene	18.70	106	130610	8.217	ppbv	96
66] o-Xylene	19.15	106	63741	4.130	ppbv	98
67] Styrene	19.05	104	88372	4.299	ppbv	97
68] Bromoform	18.80	173	105040	4.069	ppbv	100
70] Benzyl chloride	20.95	91	125613	4.233	ppbv	100
71] 1,3,5-Trimethylbenzene	20.39	105	160871	4.420	ppbv	100
72] 1,2,4-Trimethylbenzene	20.80	105	139629	4.021	ppbv	97
73] 1,3-Dichlorobenzene	20.98	146	109547	4.313	ppbv	99
74] 1,4-Dichlorobenzene	21.05	146	101668	4.278	ppbv	98
75] 1,2-Dichlorobenzene	21.41	146	108878	4.235	ppbv	93
76] 1,2,4-Trichlorobenzene	23.64	180	69458	4.076	ppbv	98
77] Naphthalene	23.84	128	99098	4.075	ppbv	98
78] Hexachlorobutadiene	24.44	225	105314	4.016	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	4.000	4.126	-3.2	100	0.00
3 TMP Dichlorodifluoromethane	4.000	4.011	-0.3	100	0.00
4 TMP Chloromethane	4.000	3.839	4.0	100	0.00
5 TMP F-114	4.000	3.971	0.7	105	-0.04
6 TMP Vinyl chloride	4.000	3.765	5.9	100	0.00
7 TMP 1,3-Butadiene	4.000	3.728	6.8	100	-0.04
8 TMP Butane	4.000	3.979	0.5	101	0.04
9 TMP Bromomethane	4.000	3.664	8.4	100	0.00
10 TMP Chloroethane	4.000	3.999	0.0	101	0.00
11 TMP Vinyl bromide	4.000	3.982	0.4	101	0.00
12 TMP Ethanol	4.000	3.930	1.7	100	0.00
13 TMP Acrolein	4.000	3.543	11.4	100	0.00
14 TMP Pentane	4.000	4.136	-3.4	100	0.00
15 TMP Trichlorofluoromethane	4.000	4.064	-1.6	100	0.00
16 TMP Acetone	4.000	3.684	7.9	100	0.00
17 TMP 2-Propanol	4.000	3.861	3.5	98	0.00
18 TMP 1,1-Dichloroethene	4.000	3.692	7.7	100	0.00
19 TMP trans-1,2-Dichloroethene	4.000	3.822	4.4	100	0.00
20 TMP Methylene chloride	4.000	3.977	0.6	100	0.00
21 TMP t-Butyl alcohol (TBA)	4.000	4.045	-1.1	100	0.00
22 TMP 3-Chloropropene	4.000	4.099	-2.5	100	0.00
23 TMP CFC-113	4.000	4.092	-2.3	100	0.00
24 TMP Carbon disulfide	4.000	4.160	-4.0	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	4.000	3.975	0.6	100	-0.03
26 TMP Vinyl acetate	4.000	4.224	-5.6	100	0.00
27 TMP 1,1-Dichloroethane	4.000	3.919	2.0	100	0.00
28 TMP cis-1,2-Dichloroethene	4.000	3.831	4.2	100	0.00
29 TMP Hexane	4.000	4.069	-1.7	100	0.00
30 TMP Chloroform	4.000	3.992	0.2	100	-0.02
31 TMP Ethyl acetate	4.000	4.116	-2.9	100	0.00
32 TMP Tetrahydrofuran	4.000	3.848	3.8	100	-0.01
33 TMP 2-Butanone (MEK)	4.000	4.188	-4.7	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	4.000	4.045	-1.1	100	0.00
35 TMP 1,1,1-Trichloroethane	4.000	4.085	-2.1	100	0.00
36 TMP Carbon tetrachloride	4.000	4.046	-1.2	100	0.00
37 TMP Benzene	4.000	3.997	0.1	100	0.00
38 TMP Cyclohexane	4.000	4.002	-0.0	100	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	4.000	3.879	3.0	100	0.00
41 TMP 1,4-Dioxane	4.000	3.788	5.3	100	0.00
42 TMP 2,2,4-Trimethylpentane	4.000	4.041	-1.0	100	0.00
43 TMP Methyl methacrylate	4.000	4.037	-0.9	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	4.000	3.992	0.2	100	0.00
45 TMP Bromodichloromethane	4.000	4.088	-2.2	100	0.00
46 TMP Trichloroethene	4.000	3.689	7.8	100	0.00
47 TMP cis-1,3-Dichloropropene	4.000	4.212	-5.3	100	0.00
48 TMP 4-Methyl-2-pentanone	4.000	4.068	-1.7	100	0.00
49 TMP trans-1,3-Dichloropropene	4.000	4.173	-4.3	100	0.00
50 TMP Toluene	4.000	3.964	0.9	100	0.00
51 TMP 1,1,2-Trichloroethane	4.000	4.058	-1.4	100	0.00
52 TMP 2-Hexanone	4.000	4.103	-2.6	100	0.00
53 TMP Tetrachloroethene	4.000	3.895	2.6	100	0.00
54 TMP Dibromochloromethane	4.000	4.100	-2.5	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	4.000	4.008	-0.2	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	4.000	3.883	2.9	100	0.00
58 TMP Ethylbenzene	4.000	4.024	-0.6	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	4.000	4.056	-1.4	100	0.00
60 TMP Nonane	4.000	4.383	-9.6	100	0.02
61 TMP Isopropylbenzene	4.000	4.097	-2.4	100	0.00
62 TMP 2-Chlorotoluene	4.000	4.118	-3.0	100	0.00
63 TMP Propylbenzene	4.000	4.420	-10.5	100	0.00
64 TMP 4-Ethyltoluene	4.000	4.219	-5.5	100	0.00
65 TMP m,p-Xylene	8.000	8.217	-2.7	100	0.00
66 TMP o-Xylene	4.000	4.130	-3.2	100	0.00
67 TMP Styrene	4.000	4.299	-7.5	100	0.00
68 TMP Bromoform	4.000	4.069	-1.7	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.561	-5.6	100	0.00
70 TMP Benzyl chloride	4.000	4.233	-5.8	101	0.00
71 TMP 1,3,5-Trimethylbenzene	4.000	4.420	-10.5	100	0.00
72 TMP 1,2,4-Trimethylbenzene	4.000	4.021	-0.5	100	0.00
73 TMP 1,3-Dichlorobenzene	4.000	4.313	-7.8	100	0.00
74 TMP 1,4-Dichlorobenzene	4.000	4.278	-6.9	100	0.00
75 TMP 1,2-Dichlorobenzene	4.000	4.235	-5.9	100	0.00
76 TMP 1,2,4-Trichlorobenzene	4.000	4.076	-1.9	100	0.00
77 TMP Naphthalene	4.000	4.075	-1.9	100	0.00
78 TMP Hexachlorobutadiene	4.000	4.016	-0.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.357	12.8	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.134	-0.3	100	0.00
4 TMP Chloromethane	1.882	1.807	4.0	100	0.00
5 TMP F-114	4.217	4.186	0.7	105	-0.04
6 TMP Vinyl chloride	1.851	1.742	5.9	100	0.00
7 TMP 1,3-Butadiene	1.216	1.133	6.8	100	-0.04
8 TMP Butane	2.183	2.171	0.5	101	0.04
9 TMP Bromomethane	1.847	1.692	8.4	100	0.00
10 TMP Chloroethane	0.655	0.654	0.2	101	0.00
11 TMP Vinyl bromide	1.609	1.602	0.4	101	0.00
12 TMP Ethanol	0.663	0.652	1.7	100	0.00
13 TMP Acrolein	0.729	0.646	11.4	100	0.00
14 TMP Pentane	2.461	2.544	-3.4	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.858	-1.6	100	0.00
16 TMP Acetone	0.710	0.654	7.9	100	0.00
17 TMP 2-Propanol	3.096	2.988	3.5	98	0.00
18 TMP 1,1-Dichloroethene	1.645	1.519	7.7	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.527	4.4	100	0.00
20 TMP Methylene chloride	1.479	1.470	0.6	100	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.698	-1.1	100	0.00
22 TMP 3-Chloropropene	2.056	2.107	-2.5	100	0.00
23 TMP CFC-113	3.469	3.549	-2.3	100	0.00
24 TMP Carbon disulfide	5.167	5.373	-4.0	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.413	0.6	100	-0.03
26 TMP Vinyl acetate	3.801	4.014	-5.6	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.275	2.0	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.619	4.2	100	0.00
29 TMP Hexane	2.068	2.104	-1.7	100	0.00
30 TMP Chloroform	4.060	3.797	6.5	100	-0.02
31 TMP Ethyl acetate	3.789	3.898	-2.9	100	0.00
32 TMP Tetrahydrofuran	1.809	1.741	3.8	100	-0.01
33 TMP 2-Butanone (MEK)	0.619	0.648	-4.7	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.569	4.4	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.415	-2.2	100	0.00
36 TMP Carbon tetrachloride	3.523	3.563	-1.1	100	0.00
37 TMP Benzene	5.688	5.164	9.2	100	0.00
38 TMP Cyclohexane	1.367	1.368	-0.1	100	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.525	3.0	100	0.00
41 TMP 1,4-Dioxane	0.230	0.218	5.2	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.615	-1.1	100	0.00
43 TMP Methyl methacrylate	0.485	0.490	-1.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.662	0.2	100	0.00
45 TMP Bromodichloromethane	0.850	0.868	-2.1	100	0.00
46 TMP Trichloroethene	0.593	0.547	7.8	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.630	-5.2	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.045	-2.3	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.588	-4.4	100	0.00
50 TMP Toluene	0.707	0.701	0.8	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.516	6.2	100	0.00
52 TMP 2-Hexanone	0.846	0.868	-2.6	100	0.00
53 TMP Tetrachloroethene	0.490	0.477	2.7	100	0.00
54 TMP Dibromochloromethane	0.861	0.882	-2.4	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.753	8.6	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.069	2.9	100	0.00
58 TMP Ethylbenzene	1.968	1.788	9.1	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.329	4.7	100	0.00
60 TMP Nonane	0.981	1.075	-9.6	100	0.02
61 TMP Isopropylbenzene	1.792	1.835	-2.4	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.461	-2.9	100	0.00
63 TMP Propylbenzene	3.292	3.638	-10.5	100	0.00
64 TMP 4-Ethyltoluene	1.611	1.700	-5.5	100	0.00
65 TMP m,p-Xylene	0.633	0.650	-2.7	100	0.00
66 TMP o-Xylene	0.615	0.635	-3.3	100	0.00
67 TMP Styrene	0.819	0.880	-7.4	100	0.00
68 TMP Bromoform	1.028	1.046	-1.8	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.732	-5.6	100	0.00
70 TMP Benzyl chloride	0.987	1.251	-26.7	101	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.602	-10.5	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.391	-11.5	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.091	-7.8	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.013	-7.0	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.084	-5.9	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.692	-10.5	100	0.00
77 TMP Naphthalene	1.132	0.987	12.8	100	0.00
78 TMP Hexachlorobutadiene	1.045	1.049	-0.4	100	0.00

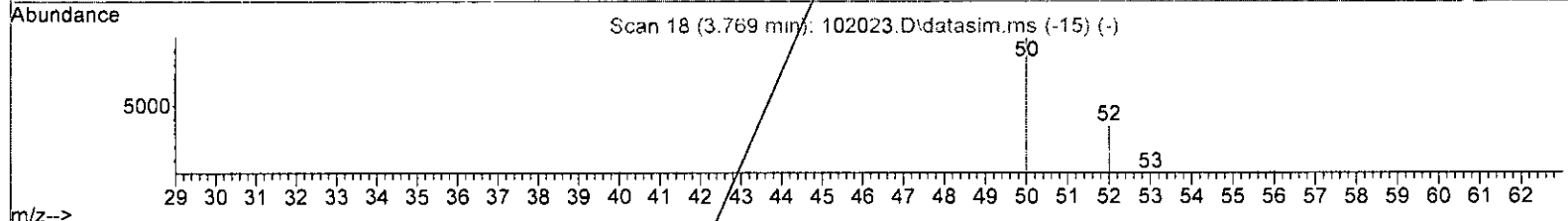
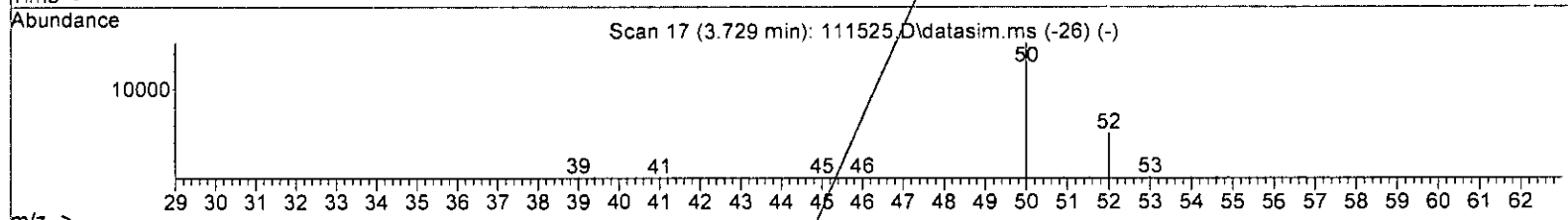
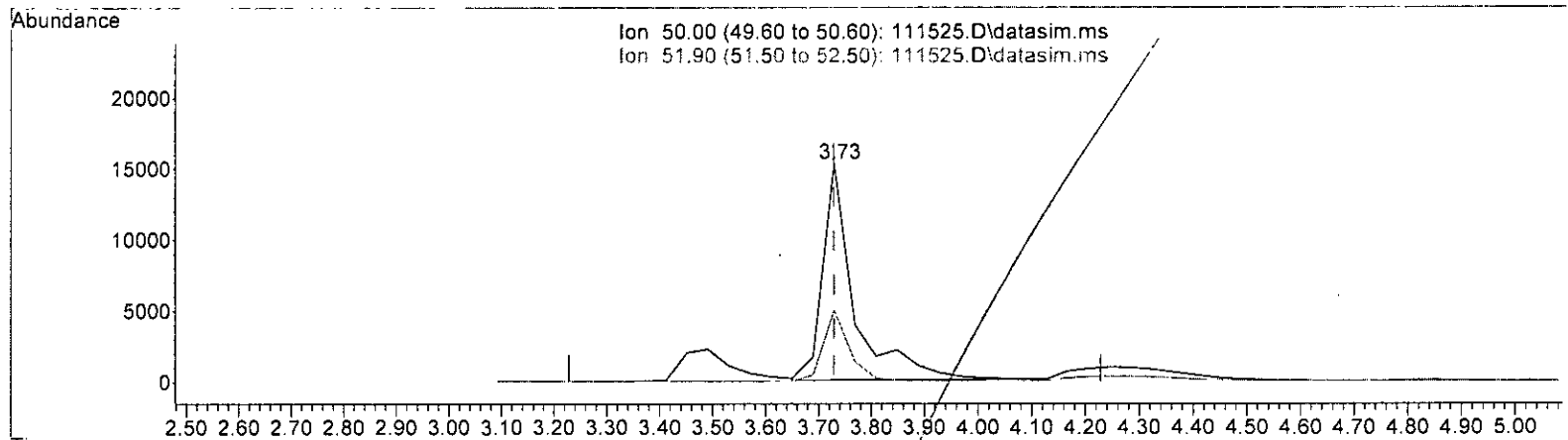
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111525.D\data.ms

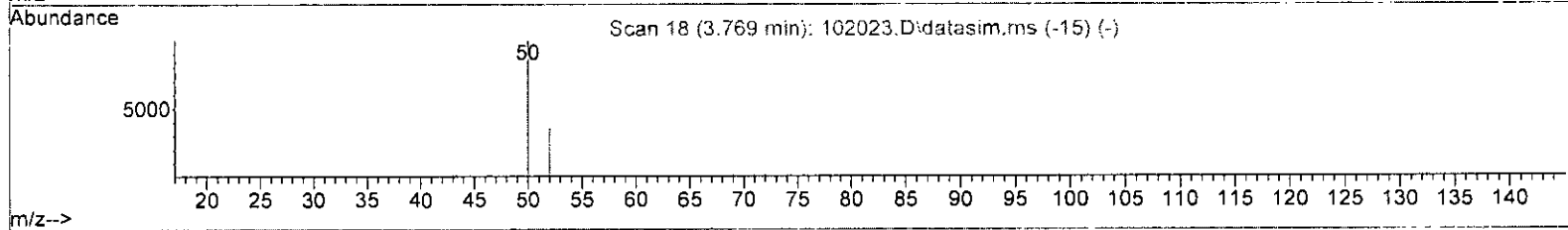
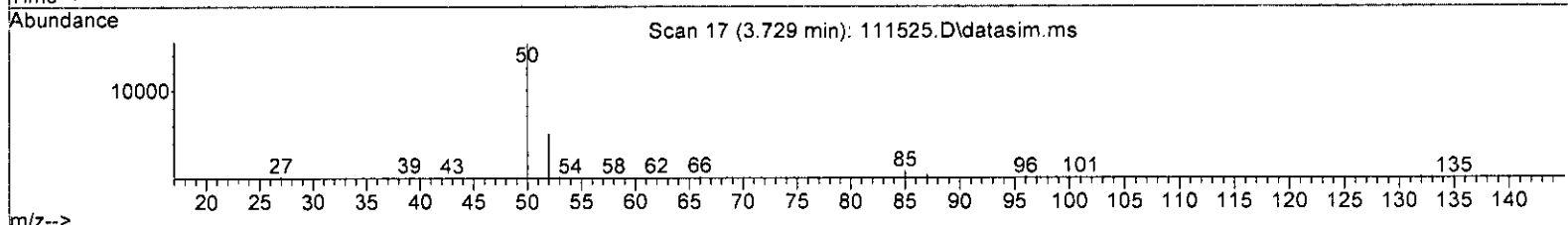
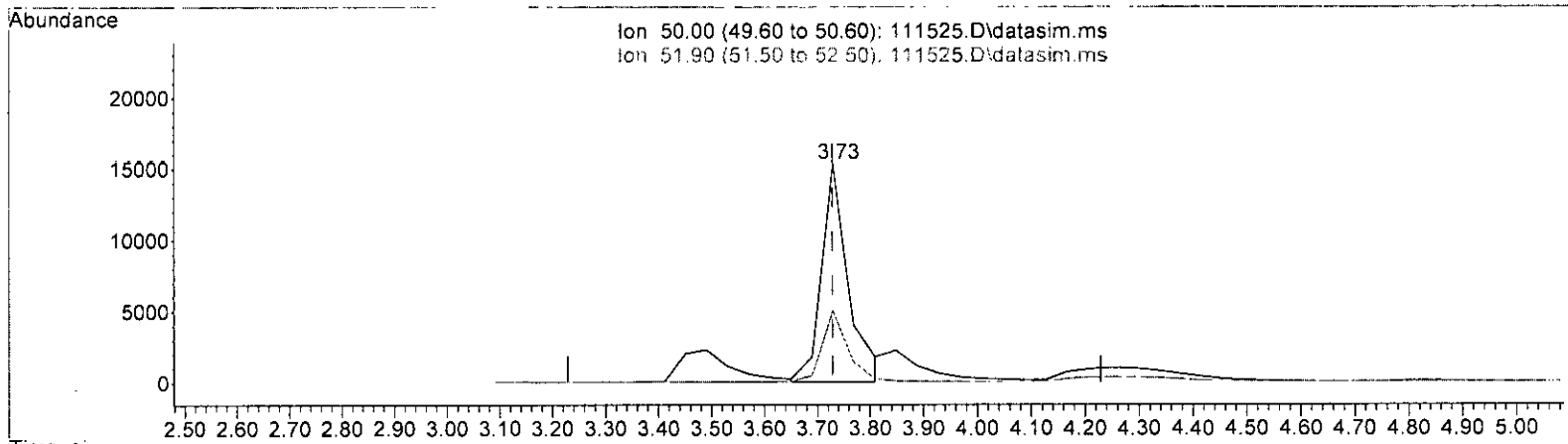
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	5.489 ppbv	
response	63014	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	32.89
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111525.D\data.ms

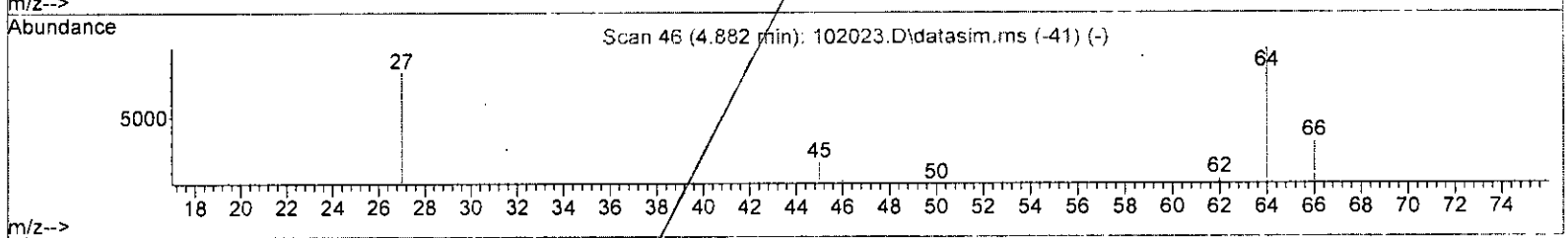
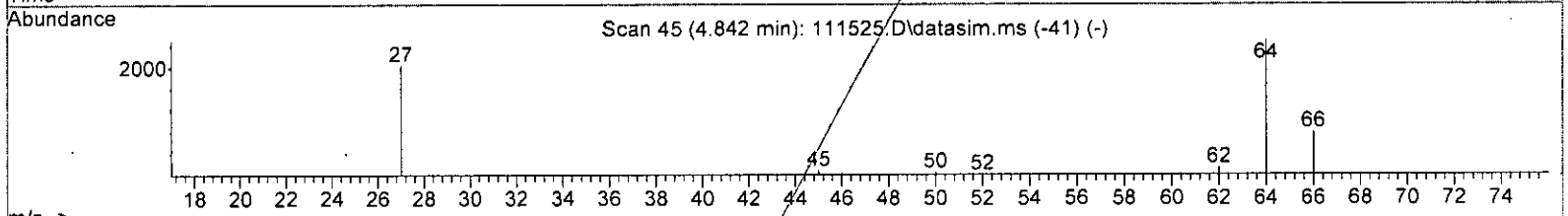
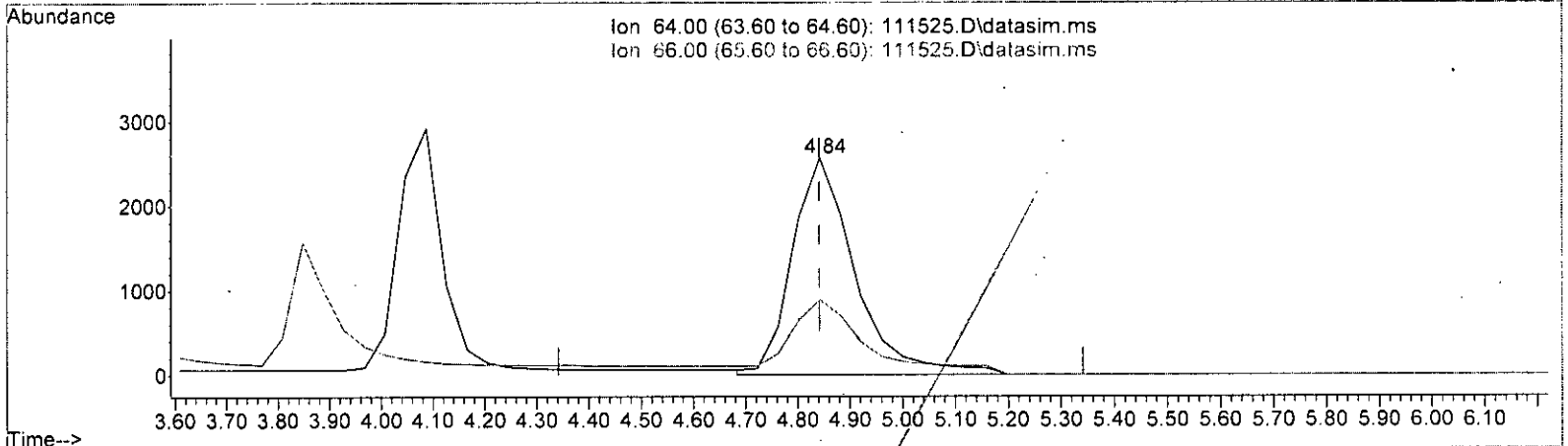
(4) Chloromethane (TMP)			
3.729min (+ 0.000)		4.721 ppbv m	
response	54199		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	32.92	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111525.D\data.ms

(10) Chloroethane (TMP)  
 4.842min (+ 0.000) 5.142 ppbv

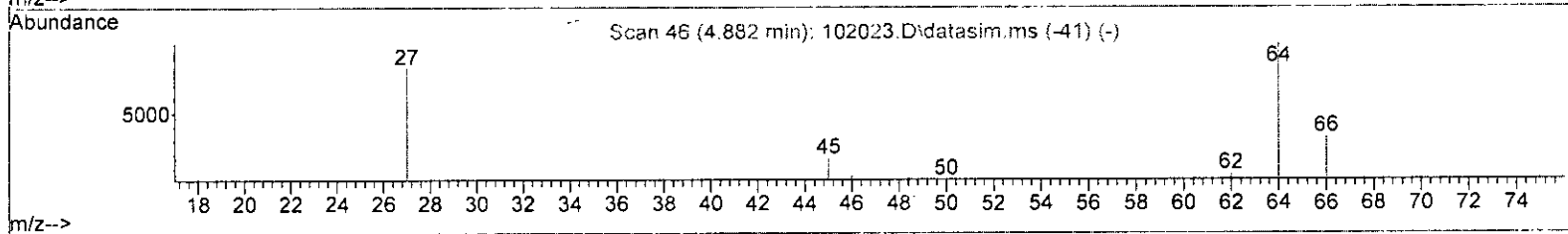
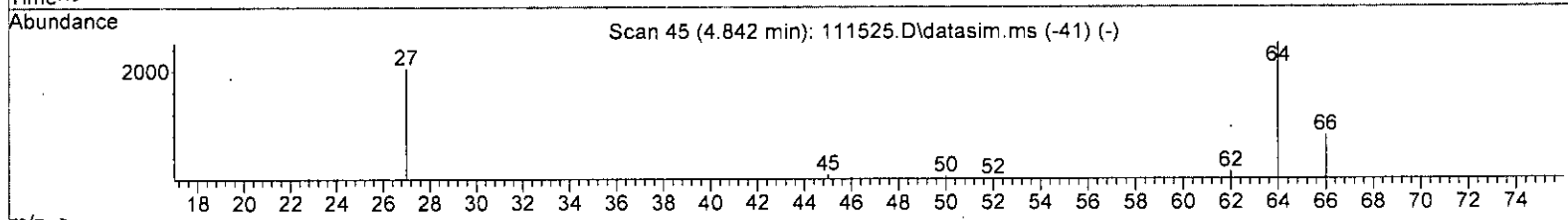
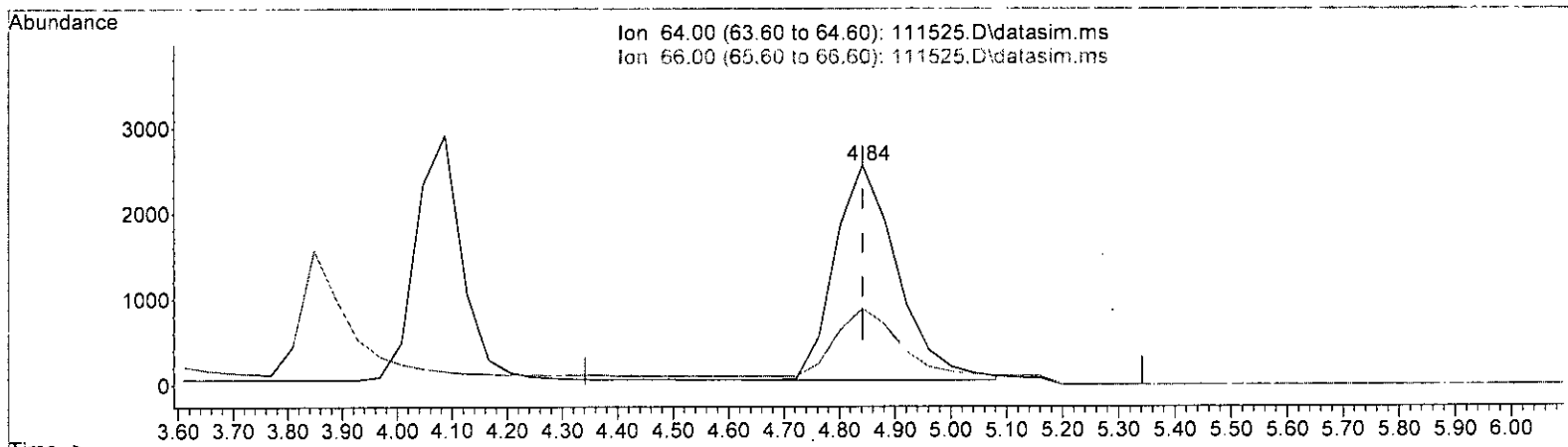
response	20522	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	34.67
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: b/est*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111525.D\data.ms

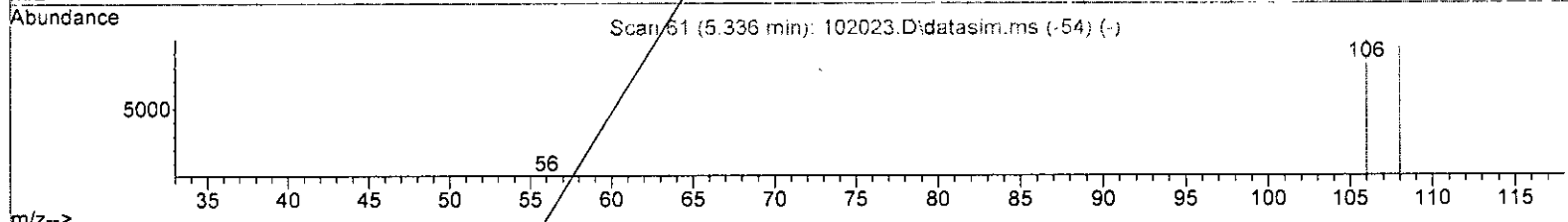
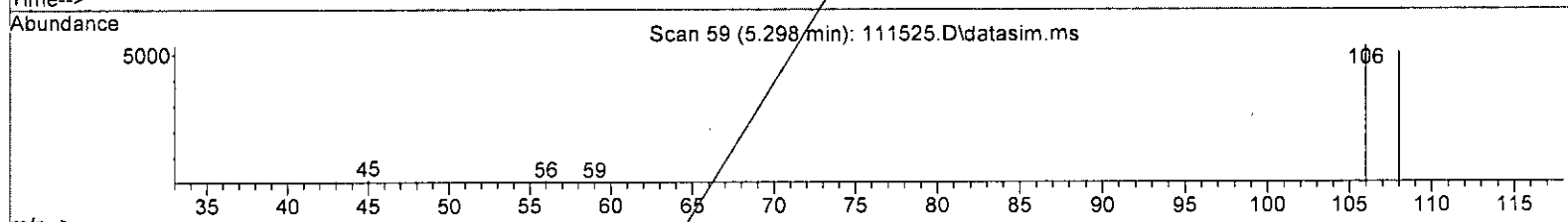
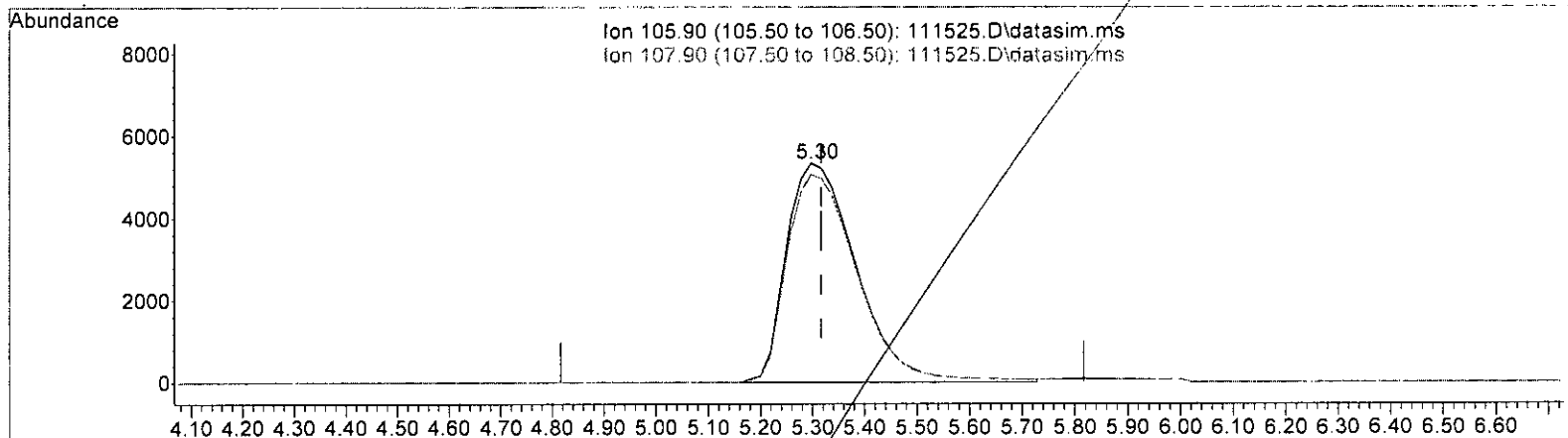
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	4.928 ppbv m	
response	19668	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	34.67
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111525.D\data.ms

(11) Vinyl bromide (TMP)		
5.298min (-0.019)	5.443 ppbv	
response	53420	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	94.86
0.00	0.00	0.00
0.00	0.00	0.00

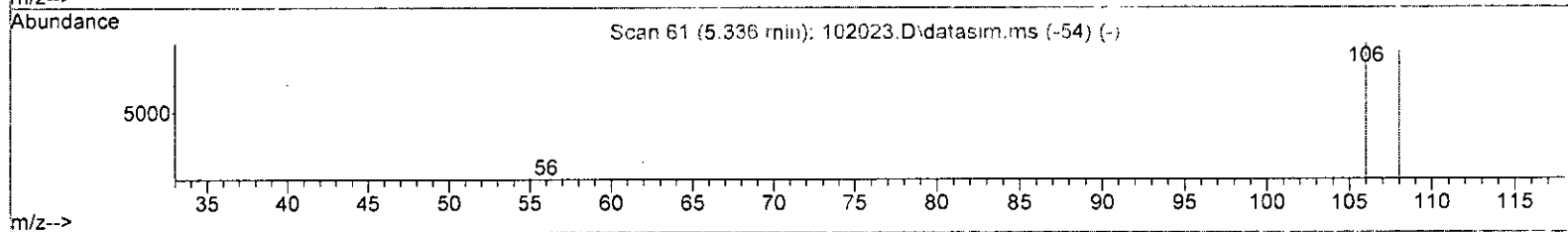
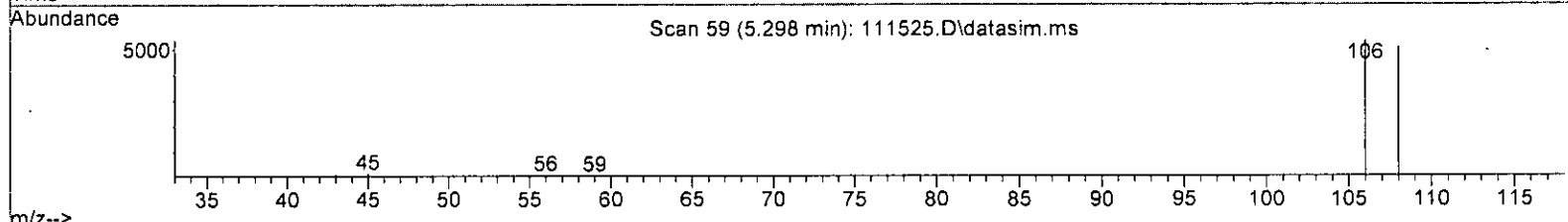
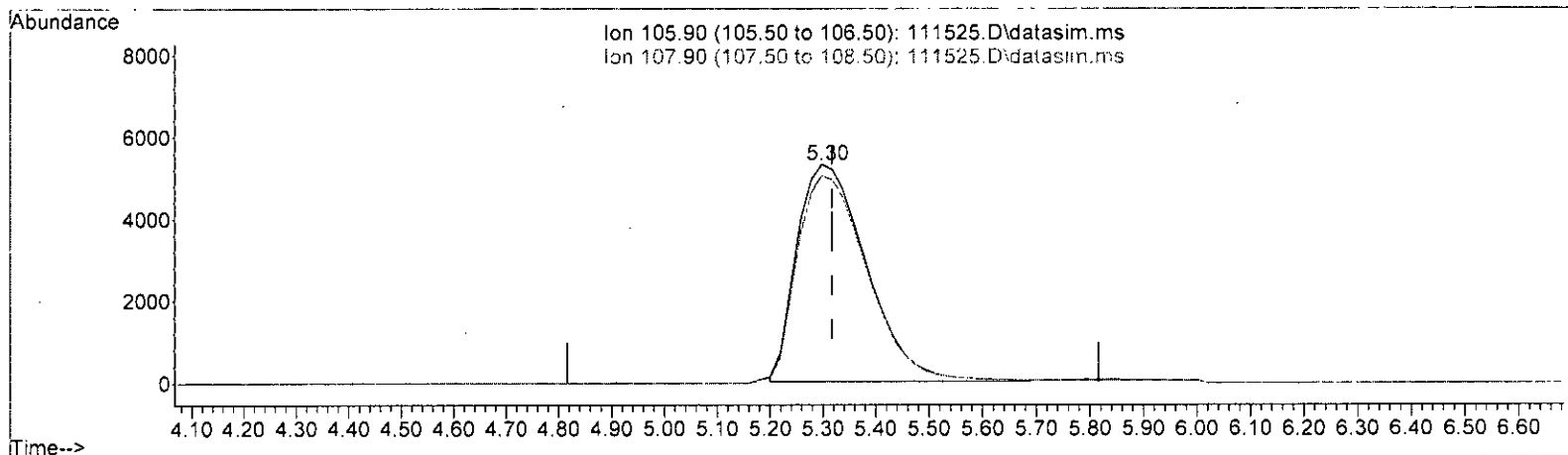
*Handwritten signature*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111525.D\data.ms

(11) Vinyl bromide (TMP)

Time (min)	Response	Concentration (ppbv)
5.298min (-0.019)	48337	4.925

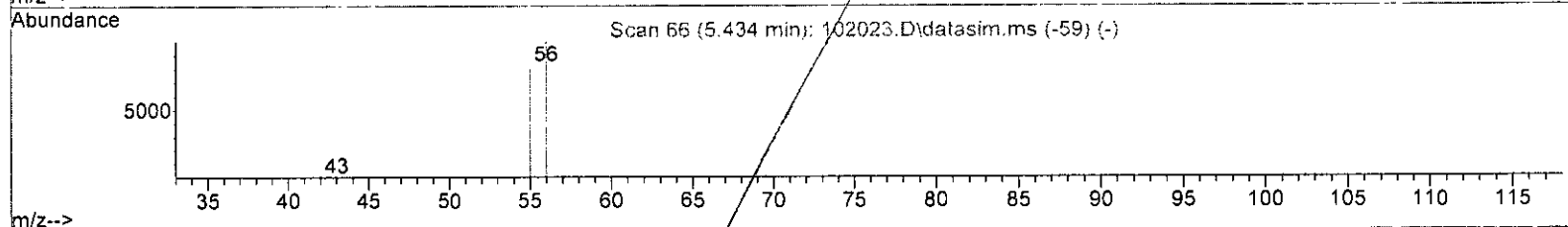
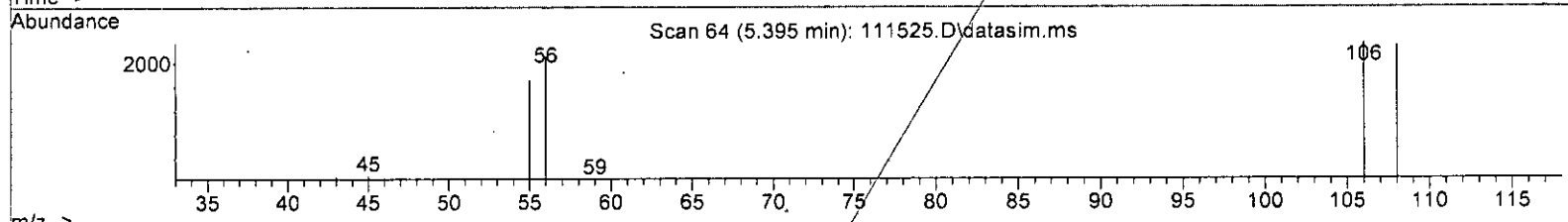
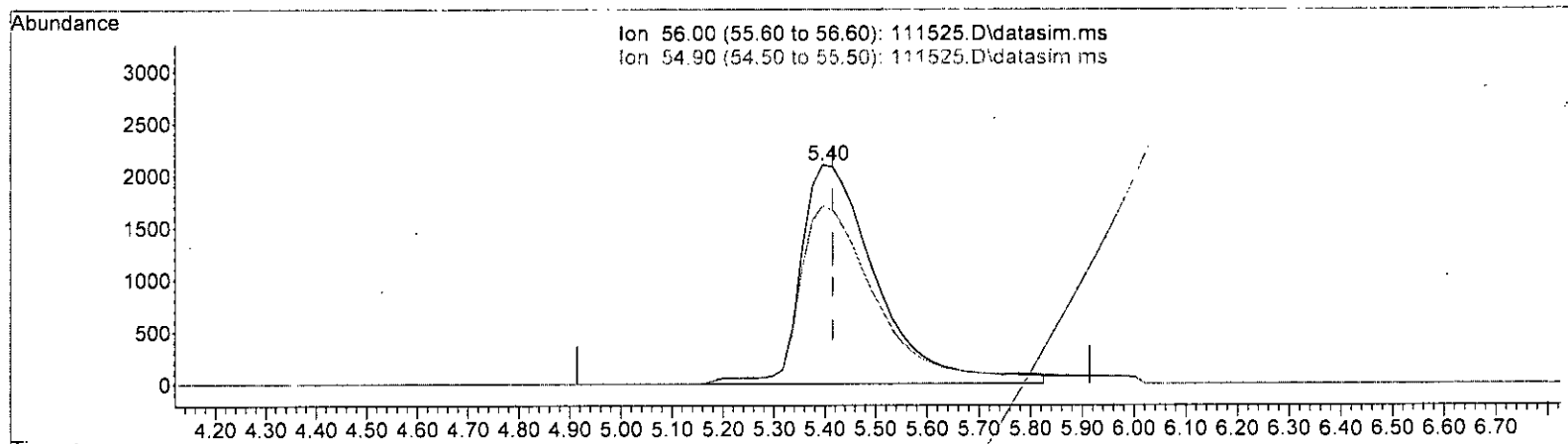
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	104.84
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111525.D\data.ms

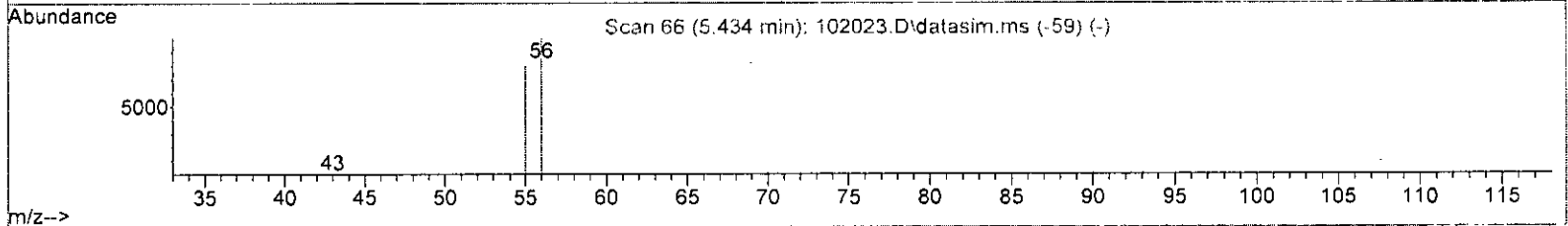
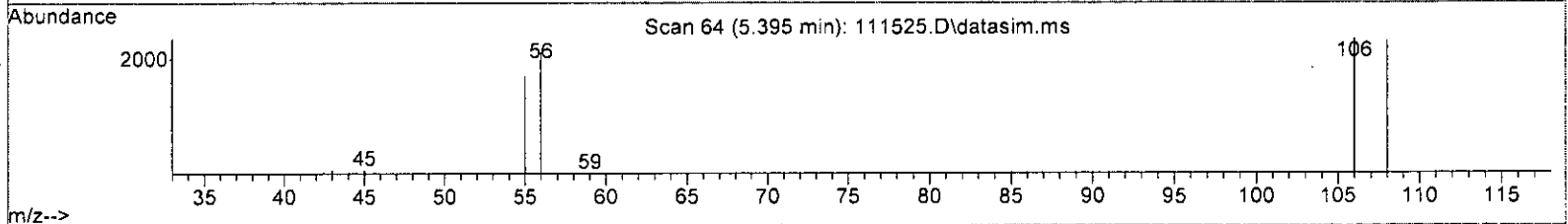
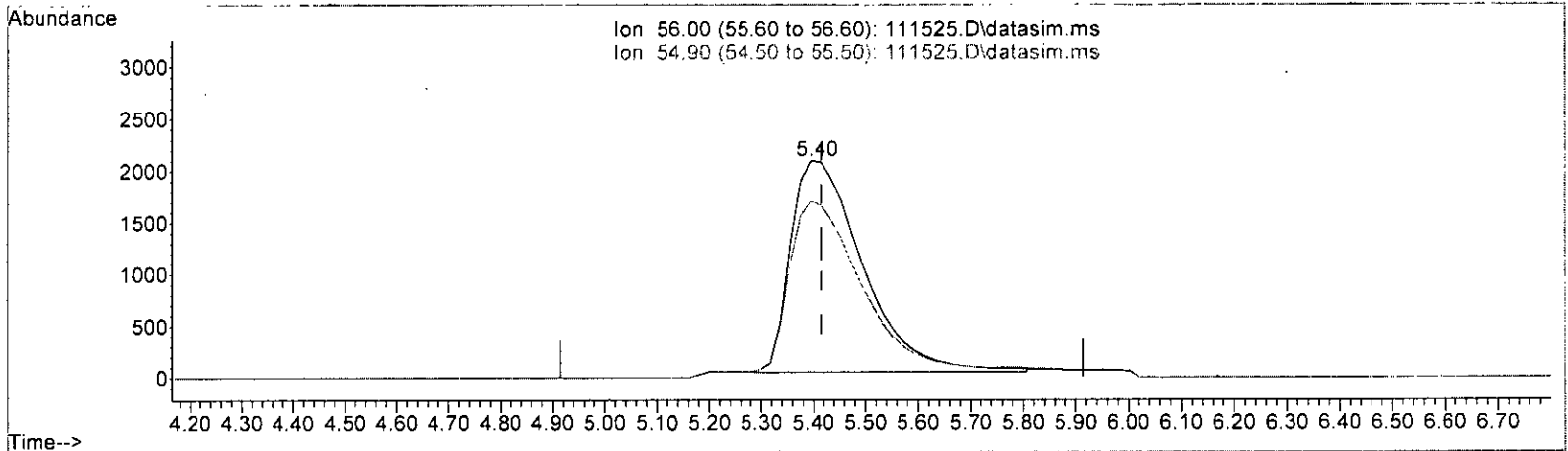
(13) Acrolein (TMP)		
5.395min (-0.020)	5.182 ppbv	
response	23034	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	70.72
0.00	0.00	0.00
0.00	0.00	0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111525.D\data.ms

(13) Acrolein (TMP)			
5.395min (-0.020) 4.427 ppbv m			
response	19678		
Ion	Exp%	Act%	
56.00	100.00	100.00	
54.90	81.00	82.78	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: W/Alak*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	60983	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	276283	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	244337	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	182039	10.751	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	107.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	41138	5.122	ppbv	91
3) Dichlorodifluoromethane	3.49	85	123681	4.920	ppbv	99
4] Chloromethane	3.73	50	54199m	4.721	ppbv	
5) F-114	3.84	85	123062	4.785	ppbv	98
6] Vinyl chloride	4.09	62	52067	4.614	ppbv	98
7] 1,3-Butadiene	4.25	54	34424	4.642	ppbv #	93
8) Butane	4.32	43	67886	5.100	ppbv	99
9) Bromomethane	4.60	94	50664	4.498	ppbv	99
10] Chloroethane	4.84	64	19668m	4.928	ppbv	
11] Vinyl bromide	5.30	106	48337m	4.925	ppbv	
12) Ethanol	4.96	45	17741	4.387	ppbv	96
13] Acrolein	5.40	56	19678m	4.427	ppbv	
14) Pentane	6.25	43	73820	4.919	ppbv	98
15) Trichlorofluoromethane	5.84	101	143109	4.908	ppbv	97
16) Acetone	5.57	58	19212	4.434	ppbv #	80
17) 2-Propanol	5.78	45	91063	4.823	ppbv	98
18] 1,1-Dichloroethene	6.63	96	45669	4.552	ppbv	98
19] trans-1,2-Dichloroethene	8.10	96	45685	4.688	ppbv #	69
20) Methylene chloride	6.80	84	45366	5.030	ppbv	95
21) t-Butyl alcohol (T8A)	6.57	59	83643	5.141	ppbv #	78
22) 3-Chloropropene	6.94	41	66905	5.336	ppbv	99
23) CFC-113	7.15	101	102655	4.852	ppbv	97
24) Carbon disulfide	7.28	76	162349	5.153	ppbv	96
25) Methyl t-butyl ether (...)	8.41	73	102603	4.900	ppbv	96
26) Vinyl acetate	8.54	43	121623	5.247	ppbv	97
27] 1,1-Dichloroethane	8.36	63	98087	4.812	ppbv	99
28] cis-1,2-Dichloroethene	9.64	96	48427	4.699	ppbv	97
29) Hexane	10.01	57	62850	4.983	ppbv	92
30] Chloroform	10.08	83	113492	4.923	ppbv	96
31) Ethyl acetate	9.92	43	117638	5.092	ppbv	99
32) Tetrahydrofuran	10.74	42	53194	4.821	ppbv	100
33) 2-Butanone (MEK)	8.88	72	19398	5.140	ppbv #	93
34] 1,2-Dichloroethane (EDC)	11.34	62	76451	4.958	ppbv	100
35] 1,1,1-Trichloroethane	11.81	97	102962	5.050	ppbv	98
36] Carbon tetrachloride	12.86	117	106309	4.949	ppbv	97
37] Benzene	12.61	78	153957	4.914	ppbv	95
38) Cyclohexane	13.07	84	40106	4.811	ppbv	97
40] 1,2-Dichloropropane	13.80	63	72152	4.823	ppbv	99

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

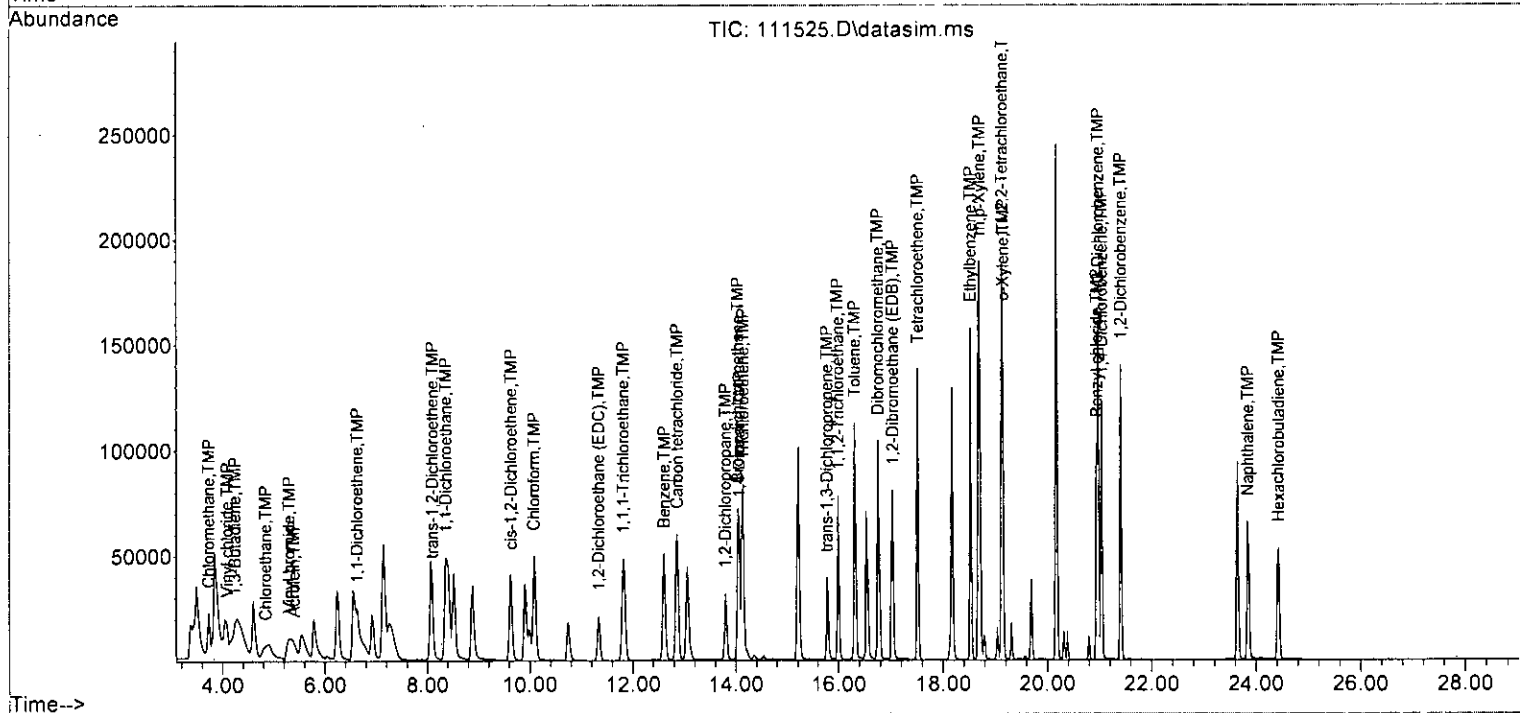
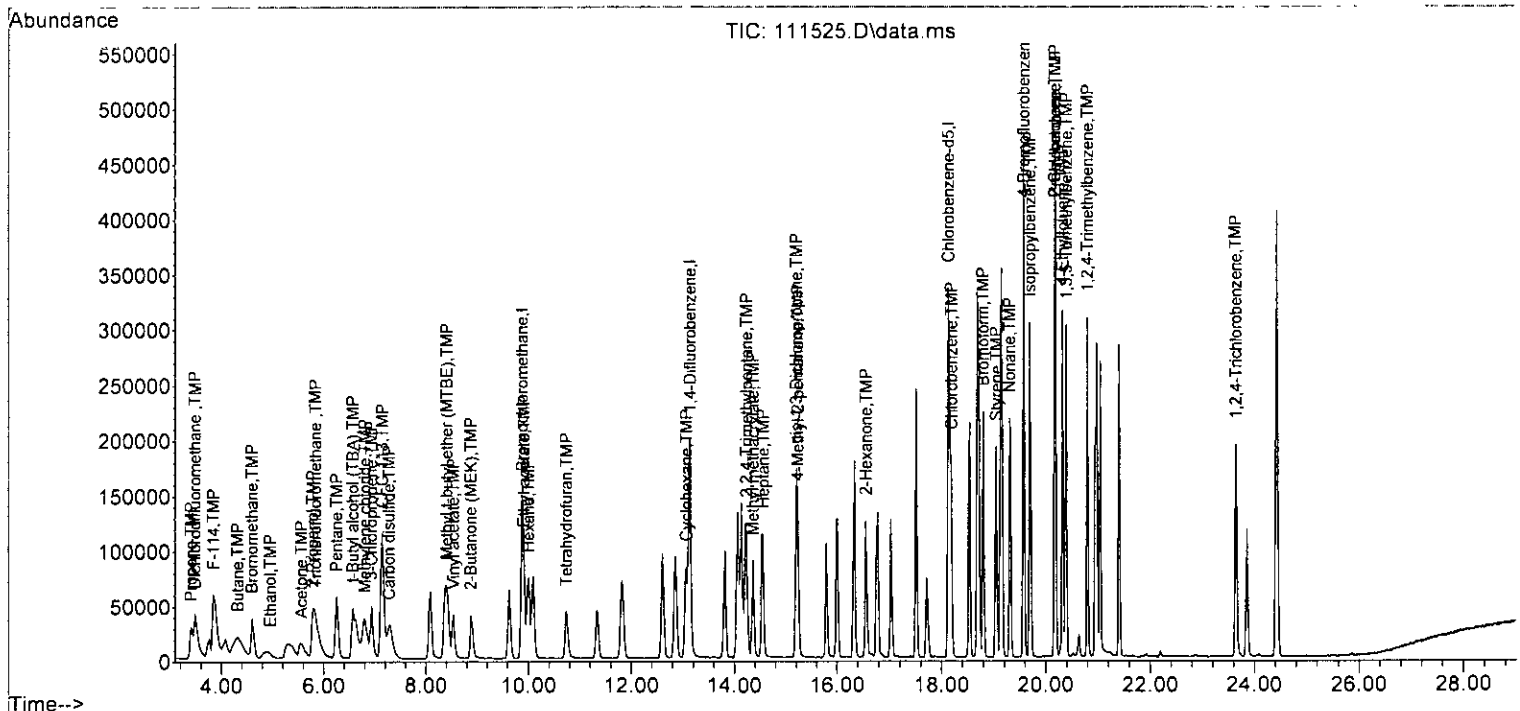
Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 55 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	30557	4.803	ppbv	88
42) 2,2,4-Trimethylpentane	14.24	57	224195	5.077	ppbv	96
43) Methyl methacrylate	14.36	41	66849	4.986	ppbv	97
44) Heptane	14.56	43	95586	5.215	ppbv	99
45] Bromodichloromethane	14.04	83	119739	5.101	ppbv	99
46] Trichloroethene	14.14	95	75582	4.612	ppbv	91
47) cis-1,3-Dichloropropene	15.20	75	89766	5.427	ppbv	97
48) 4-Methyl-2-pentanone	15.23	100	6253	5.114	ppbv #	96
49] trans-1,3-Dichloropropene	15.78	75	81515	5.239	ppbv	84
50] Toluene	16.31	92	96765	4.954	ppbv	95
51] 1,1,2-Trichloroethane	16.00	83	70313	5.048	ppbv	91
52) 2-Hexanone	16.56	43	122607	5.244	ppbv	95
53] Tetrachloroethene	17.52	164	71945	5.316	ppbv	92
54] Dibromochloromethane	16.76	129	121070	5.091	ppbv	100
55] 1,2-Dibromoethane (EDB)	17.04	107	104659	5.086	ppbv	100
57) Chlorobenzene	18.19	112	133240	4.954	ppbv	97
58] Ethylbenzene	18.53	91	222923	5.156	ppbv	96
59] 1,1,2,2-Tetrachloroethane	19.13	83	161620	5.092	ppbv	92
60) Nonane	19.30	43	132738	5.540	ppbv	100
61) Isopropylbenzene	19.70	105	232200	5.303	ppbv	100
62) 2-Chlorotoluene	20.17	126	58276	5.324	ppbv	89
63) Propylbenzene	20.17	91	449296	5.586	ppbv	98
64) 4-Ethyltoluene	20.32	105	214541	5.449	ppbv	100
65] m,p-Xylene	18.70	106	162637	10.511	ppbv	95
66] o-Xylene	19.15	106	78349	5.216	ppbv	98
67) Styrene	19.05	104	107940	5.394	ppbv	98
68) Bromoform	18.80	173	127834	5.087	ppbv	100
70] Benzyl chloride	20.95	91	157683	5.383	ppbv	100
71) 1,3,5-Trimethylbenzene	20.39	105	199336	5.626	ppbv	99
72) 1,2,4-Trimethylbenzene	20.80	105	178302	5.189	ppbv	100
73] 1,3-Dichlorobenzene	20.98	146	135650	5.486	ppbv	98
74] 1,4-Dichlorobenzene	21.05	146	126517	5.469	ppbv	98
75] 1,2-Dichlorobenzene	21.41	146	135159	5.401	ppbv	93
76) 1,2,4-Trichlorobenzene	23.64	180	94340	5.395	ppbv	99
77] Naphthalene	23.84	128	141473	5.351	ppbv	99
78] Hexachlorobutadiene	24.44	225	129729	5.083	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 AL5 Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 5S method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP	Propene	5.000	5.122	-2.4	100	0.00
3 TMP	Dichlorodifluoromethane	5.000	4.920	1.6	100	0.00
4 TMP	Chloromethane	5.000	4.721	5.6	100	0.00
5 TMP	F-114	5.000	4.785	4.3	100	-0.04
6 TMP	Vinyl chloride	5.000	4.614	7.7	100	0.00
7 TMP	1,3-Butadiene	5.000	4.642	7.2	100	-0.04
8 TMP	Butane	5.000	5.100	-2.0	101	0.00
9 TMP	Bromomethane	5.000	4.498	10.0	100	0.00
10 TMP	Chloroethane	5.000	4.928	1.4	101	0.00
11 TMP	Vinyl bromide	5.000	4.925	1.5	102	-0.02
12 TMP	Ethanol	5.000	4.387	12.3	100	0.00
13 TMP	Acrolein	5.000	4.427	11.5	101	-0.02
14 TMP	Pentane	5.000	4.919	1.6	100	0.00
15 TMP	Trichlorofluoromethane	5.000	4.908	1.8	99	0.00
16 TMP	Acetone	5.000	4.434	11.3	100	0.00
17 TMP	2-Propanol	5.000	4.823	3.5	99	0.00
18 TMP	1,1-Dichloroethene	5.000	4.552	9.0	100	0.00
19 TMP	trans-1,2-Dichloroethene	5.000	4.688	6.2	100	0.00
20 TMP	Methylene chloride	5.000	5.030	-0.6	100	0.00
21 TMP	t-Butyl alcohol (TBA)	5.000	5.141	-2.8	100	0.00
22 TMP	3-Chloropropene	5.000	5.336	-6.7	100	0.00
23 TMP	CFC-113	5.000	4.852	3.0	100	0.00
24 TMP	Carbon disulfide	5.000	5.153	-3.1	100	0.00
25 TMP	Methyl t-butyl ether (MTBE)	5.000	4.900	2.0	100	-0.03
26 TMP	Vinyl acetate	5.000	5.247	-4.9	100	0.00
27 TMP	1,1-Dichloroethane	5.000	4.812	3.8	100	0.00
28 TMP	cis-1,2-Dichloroethene	5.000	4.699	6.0	100	0.00
29 TMP	Hexane	5.000	4.983	0.3	100	0.00
30 TMP	Chloroform	5.000	4.923	1.5	100	-0.02
31 TMP	Ethyl acetate	5.000	5.092	-1.8	100	0.00
32 TMP	Tetrahydrofuran	5.000	4.821	3.6	100	0.00
33 TMP	2-Butanone (MEK)	5.000	5.140	-2.8	100	-0.03
34 TMP	1,2-Dichloroethane (EDC)	5.000	4.958	0.8	100	0.00
35 TMP	1,1,1-Trichloroethane	5.000	5.050	-1.0	100	-0.01
36 TMP	Carbon tetrachloride	5.000	4.949	1.0	100	0.00
37 TMP	Benzene	5.000	4.914	1.7	100	0.00
38 TMP	Cyclohexane	5.000	4.811	3.8	100	0.00
39 I	1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	5.000	4.823	3.5	100	0.00
41 TMP	1,4-Dioxane	5.000	4.803	3.9	100	-0.02
42 TMP	2,2,4-Trimethylpentane	5.000	5.077	-1.5	100	0.00
43 TMP	Methyl methacrylate	5.000	4.986	0.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCM57 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	5.000	5.215	-4.3	100	0.00
45 TMP Bromodichloromethane	5.000	5.101	-2.0	100	0.00
46 TMP Trichloroethene	5.000	4.612	7.8	100	0.00
47 TMP cis-1,3-Dichloropropene	5.000	5.427	-8.5	100	0.00
48 TMP 4-Methyl-2-pentanone	5.000	5.114	-2.3	100	0.00
49 TMP trans-1,3-Dichloropropene	5.000	5.239	-4.8	100	0.00
50 TMP Toluene	5.000	4.954	0.9	100	0.00
51 TMP 1,1,2-Trichloroethane	5.000	5.048	-1.0	100	0.00
52 TMP 2-Hexanone	5.000	5.244	-4.9	100	0.00
53 TMP Tetrachloroethene	5.000	5.316	-6.3	100	0.00
54 TMP Dibromochloromethane	5.000	5.091	-1.8	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	5.000	5.086	-1.7	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	5.000	4.954	0.9	100	0.00
58 TMP Ethylbenzene	5.000	5.156	-3.1	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	5.000	5.092	-1.8	100	0.00
60 TMP Nonane	5.000	5.540	-10.8	100	0.00
61 TMP Isopropylbenzene	5.000	5.303	-6.1	100	0.00
62 TMP 2-Chlorotoluene	5.000	5.324	-6.5	100	0.00
63 TMP Propylbenzene	5.000	5.586	-11.7	100	-0.01
64 TMP 4-Ethyltoluene	5.000	5.449	-9.0	100	0.00
65 TMP m,p-Xylene	10.000	10.511	-5.1	100	0.00
66 TMP o-Xylene	5.000	5.216	-4.3	100	0.00
67 TMP Styrene	5.000	5.394	-7.9	100	0.00
68 TMP Bromoform	5.000	5.087	-1.7	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.751	-7.5	100	0.00
70 TMP Benzyl chloride	5.000	5.383	-7.7	101	0.00
71 TMP 1,3,5-Trimethylbenzene	5.000	5.626	-12.5	100	0.00
72 TMP 1,2,4-Trimethylbenzene	5.000	5.189	-3.8	100	0.00
73 TMP 1,3-Dichlorobenzene	5.000	5.486	-9.7	100	0.00
74 TMP 1,4-Dichlorobenzene	5.000	5.469	-9.4	100	0.00
75 TMP 1,2-Dichlorobenzene	5.000	5.401	-8.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	5.000	5.395	-7.9	100	0.00
77 TMP Naphthalene	5.000	5.351	-7.0	100	0.00
78 TMP Hexachlorobutadiene	5.000	5.083	-1.7	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : S.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP	Propene	1.556	1.349	13.3	100	0.00
3 TMP	Dichlorodifluoromethane	4.123	4.056	1.6	100	0.00
4 TMP	Chloromethane	1.882	1.778	5.5	100	0.00
5 TMP	F-114	4.217	4.036	4.3	100	-0.04
6 TMP	Vinyl chloride	1.851	1.708	7.7	100	0.00
7 TMP	1,3-Butadiene	1.216	1.129	7.2	100	-0.04
8 TMP	Butane	2.183	2.226	-2.0	101	0.00
9 TMP	Bromomethane	1.847	1.662	10.0	100	0.00
10 TMP	Chloroethane	0.655	0.645	1.5	101	0.00
11 TMP	Vinyl bromide	1.609	1.585	1.5	102	-0.02
12 TMP	Ethanol	0.663	0.582	12.2	100	0.00
13 TMP	Acrolein	0.729	0.645	11.5	101	-0.02
14 TMP	Pentane	2.461	2.421	1.6	100	0.00
15 TMP	Trichlorofluoromethane	4.781	4.693	1.8	99	0.00
16 TMP	Acetone	0.710	0.630	11.3	100	0.00
17 TMP	2-Propanol	3.096	2.987	3.5	99	0.00
18 TMP	1,1-Dichloroethene	1.645	1.498	8.9	100	0.00
19 TMP	trans-1,2-Dichloroethene	1.598	1.498	6.3	100	0.00
20 TMP	Methylene chloride	1.479	1.488	-0.6	100	0.00
21 TMP	t-Butyl alcohol (TBA)	2.668	2.743	-2.8	100	0.00
22 TMP	3-Chloropropene	2.056	2.194	-6.7	100	0.00
23 TMP	CFC-113	3.469	3.367	2.9	100	0.00
24 TMP	Carbon disulfide	5.167	5.324	-3.0	100	0.00
25 TMP	Methyl t-butyl ether (MTBE)	3.434	3.365	2.0	100	-0.03
26 TMP	Vinyl acetate	3.801	3.989	-4.9	100	0.00
27 TMP	1,1-Dichloroethane	3.342	3.217	3.7	100	0.00
28 TMP	cis-1,2-Dichloroethene	1.690	1.588	6.0	100	0.00
29 TMP	Hexane	2.068	2.061	0.3	100	0.00
30 TMP	Chloroform	4.060	3.722	8.3	100	-0.02
31 TMP	Ethyl acetate	3.789	3.858	-1.8	100	0.00
32 TMP	Tetrahydrofuran	1.809	1.745	3.5	100	0.00
33 TMP	2-Butanone (MEK)	0.619	0.636	-2.7	100	-0.03
34 TMP	1,2-Dichloroethane (EDC)	2.687	2.507	6.7	100	0.00
35 TMP	1,1,1-Trichloroethane	3.343	3.377	-1.0	100	-0.01
36 TMP	Carbon tetrachloride	3.523	3.487	1.0	100	0.00
37 TMP	Benzene	5.688	5.049	11.2	100	0.00
38 TMP	Cyclohexane	1.367	1.315	3.8	100	0.00
39 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	0.541	0.522	3.5	100	0.00
41 TMP	1,4-Dioxane	0.230	0.221	3.9	100	-0.02
42 TMP	2,2,4-Trimethylpentane	1.598	1.623	-1.6	100	0.00
43 TMP	Methyl methacrylate	0.485	0.484	0.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : S.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.692	-4.4	100	0.00
45 TMP Bromodichloromethane	0.850	0.867	-2.0	100	0.00
46 TMP Trichloroethene	0.593	0.547	7.8	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.650	-8.5	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.045	-2.3	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.590	-4.8	100	0.00
50 TMP Toluene	0.707	0.700	1.0	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.509	7.5	100	0.00
52 TMP 2-Hexanone	0.846	0.888	-5.0	100	0.00
53 TMP Tetrachloroethene	0.490	0.521	-6.3	100	0.00
54 TMP Dibromochloromethane	0.861	0.876	-1.7	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.758	8.0	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.091	0.9	100	0.00
58 TMP Ethylbenzene	1.968	1.825	7.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.323	5.1	100	0.00
60 TMP Nonane	0.981	1.087	-10.8	100	0.00
61 TMP Isopropylbenzene	1.792	1.901	-6.1	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.477	-6.5	100	0.00
63 TMP Propylbenzene	3.292	3.678	-11.7	100	-0.01
64 TMP 4-Ethyltoluene	1.611	1.756	-9.0	100	0.00
65 TMP m,p-Xylene	0.633	0.666	-5.2	100	0.00
66 TMP o-Xylene	0.615	0.641	-4.2	100	0.00
67 TMP Styrene	0.819	0.884	-7.9	100	0.00
68 TMP Bromoform	1.028	1.046	-1.8	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.745	-7.5	100	0.00
70 TMP Benzyl chloride	0.987	1.291	-30.8#	101	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.632	-12.6	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.459	-17.0	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.110	-9.7	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.036	-9.4	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.106	-8.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.772	-23.3	100	0.00
77 TMP Naphthalene	1.132	1.158	-2.3	100	0.00
78 TMP Hexachlorobutadiene	1.045	1.062	-1.6	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.349	13.3	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.056	1.6	100	0.00
4 TMP Chloromethane	1.882	1.778	5.5	100	0.00
5 TMP F-114	4.217	4.036	4.3	100	-0.04
6 TMP Vinyl chloride	1.851	1.708	7.7	100	0.00
7 TMP 1,3-Butadiene	1.216	1.129	7.2	100	-0.04
8 TMP Butane	2.183	2.226	-2.0	101	0.00
9 TMP Bromomethane	1.847	1.662	10.0	100	0.00
10 TMP Chloroethane	0.655	0.645	1.5	101	0.00
11 TMP Vinyl bromide	1.609	1.585	1.5	102	-0.02
12 TMP Ethanol	0.663	0.582	12.2	100	0.00
13 TMP Acrolein	0.729	0.645	11.5	101	-0.02
14 TMP Pentane	2.461	2.421	1.6	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.693	1.8	99	0.00
16 TMP Acetone	0.710	0.630	11.3	100	0.00
17 TMP 2-Propanol	3.096	2.987	3.5	99	0.00
18 TMP 1,1-Dichloroethene	1.645	1.498	8.9	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.498	6.3	100	0.00
20 TMP Methylene chloride	1.479	1.488	-0.6	100	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.743	-2.8	100	0.00
22 TMP 3-Chloropropene	2.056	2.194	-6.7	100	0.00
23 TMP CFC-113	3.469	3.367	2.9	100	0.00
24 TMP Carbon disulfide	5.167	5.324	-3.0	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.365	2.0	100	-0.03
26 TMP Vinyl acetate	3.801	3.989	-4.9	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.217	3.7	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.588	6.0	100	0.00
29 TMP Hexane	2.068	2.061	0.3	100	0.00
30 TMP Chloroform	4.060	3.722	8.3	100	-0.02
31 TMP Ethyl acetate	3.789	3.858	-1.8	100	0.00
32 TMP Tetrahydrofuran	1.809	1.745	3.5	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.636	-2.7	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.507	6.7	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.377	-1.0	100	-0.01
36 TMP Carbon tetrachloride	3.523	3.487	1.0	100	0.00
37 TMP Benzene	5.688	5.049	11.2	100	0.00
38 TMP Cyclohexane	1.367	1.315	3.8	100	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.522	3.5	100	0.00
41 TMP 1,4-Dioxane	0.230	0.221	3.9	100	-0.02
42 TMP 2,2,4-Trimethylpentane	1.598	1.623	-1.6	100	0.00
43 TMP Methyl methacrylate	0.485	0.484	0.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.692	-4.4	100	0.00
45 TMP Bromodichloromethane	0.850	0.867	-2.0	100	0.00
46 TMP Trichloroethene	0.593	0.547	7.8	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.650	-8.5	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.045	-2.3	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.590	-4.8	100	0.00
50 TMP Toluene	0.707	0.700	1.0	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.509	7.5	100	0.00
52 TMP 2-Hexanone	0.846	0.888	-5.0	100	0.00
53 TMP Tetrachloroethene	0.490	0.521	-6.3	100	0.00
54 TMP Dibromochloromethane	0.861	0.876	-1.7	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.758	8.0	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.091	0.9	100	0.00
58 TMP Ethylbenzene	1.968	1.825	7.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.323	5.1	100	0.00
60 TMP Nonane	0.981	1.087	-10.8	100	0.00
61 TMP Isopropylbenzene	1.792	1.901	-6.1	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.477	-6.5	100	0.00
63 TMP Propylbenzene	3.292	3.678	-11.7	100	-0.01
64 TMP 4-Ethyltoluene	1.611	1.756	-9.0	100	0.00
65 TMP m,p-Xylene	0.633	0.666	-5.2	100	0.00
66 TMP o-Xylene	0.615	0.641	-4.2	100	0.00
67 TMP Styrene	0.819	0.884	-7.9	100	0.00
68 TMP Bromoform	1.028	1.046	-1.8	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.745	-7.5	100	0.00
70 TMP Benzyl chloride	0.987	1.291	-30.8#	101	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.632	-12.6	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.459	-17.0	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.110	-9.7	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.036	-9.4	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.106	-8.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.772	-23.3	100	0.00
77 TMP Naphthalene	1.132	1.158	-2.3	100	0.00
78 TMP Hexachlorobutadiene	1.045	1.062	-1.6	100	0.00

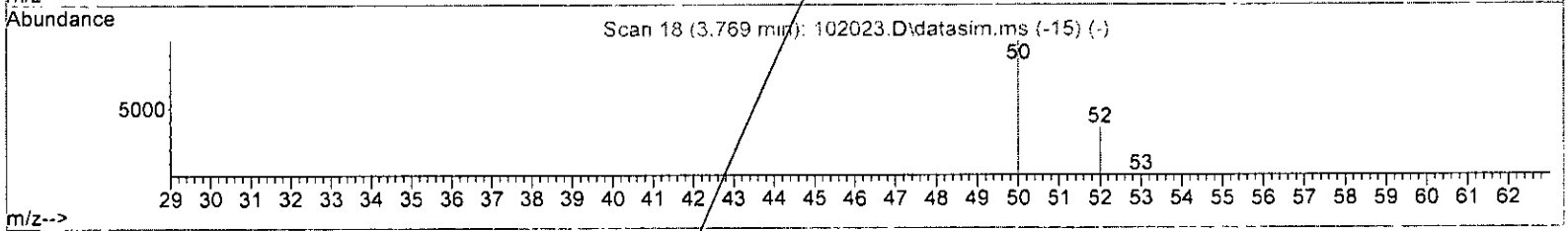
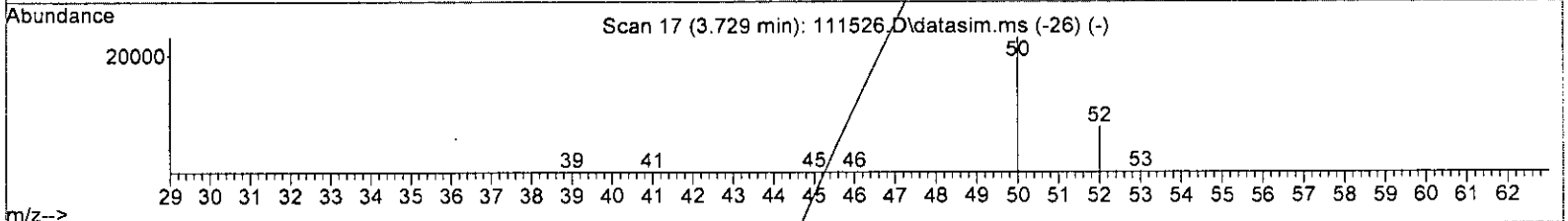
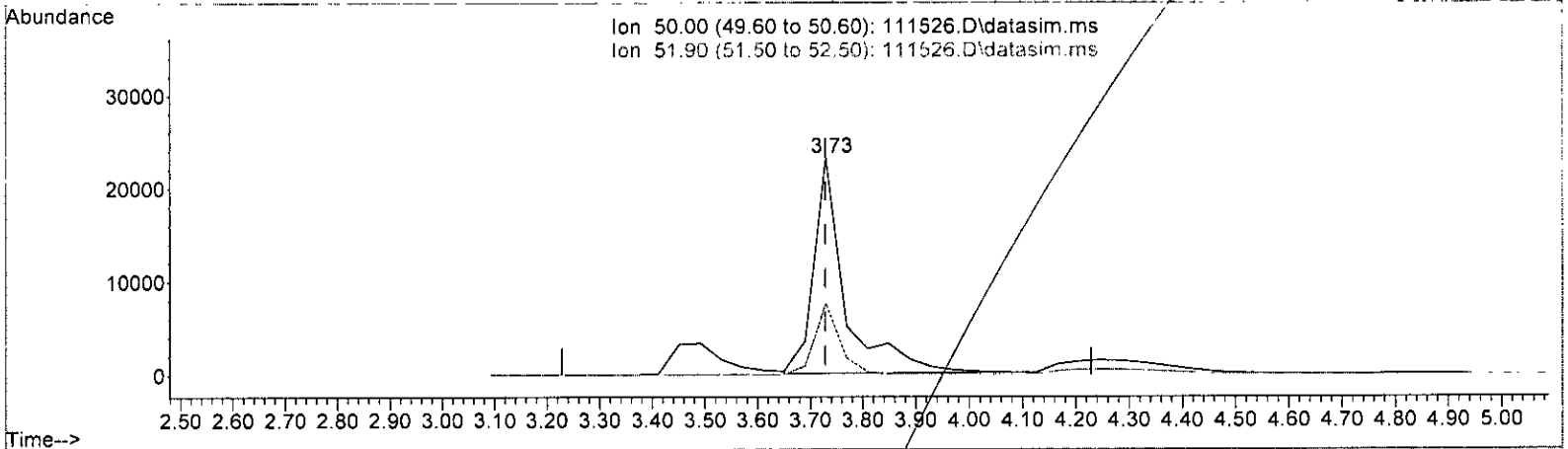
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111526.D\data.ms

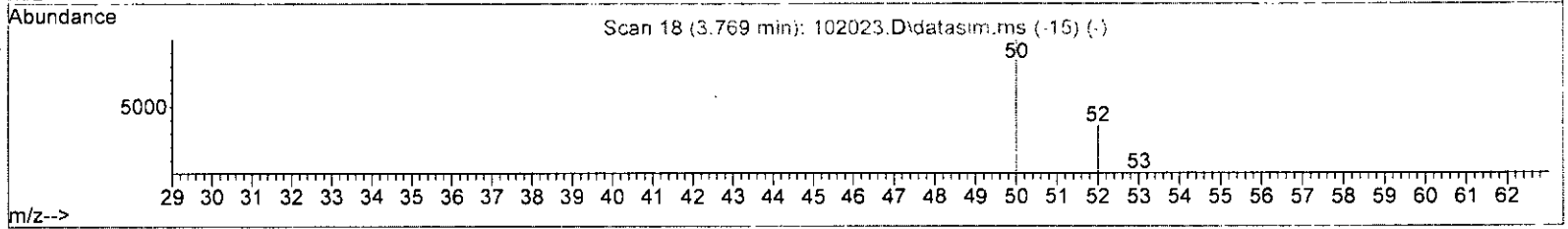
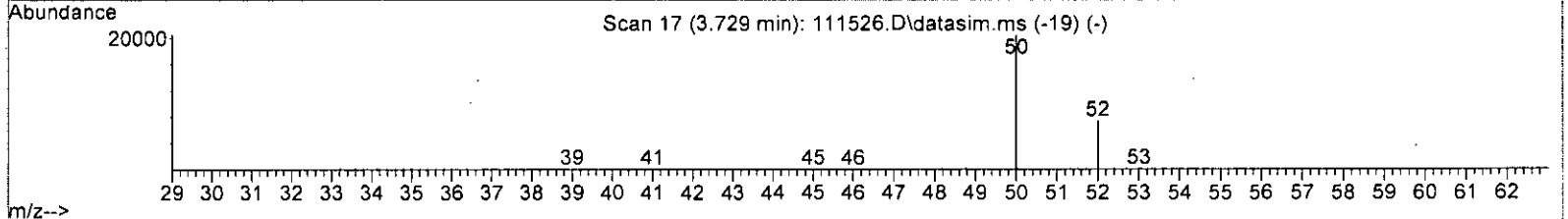
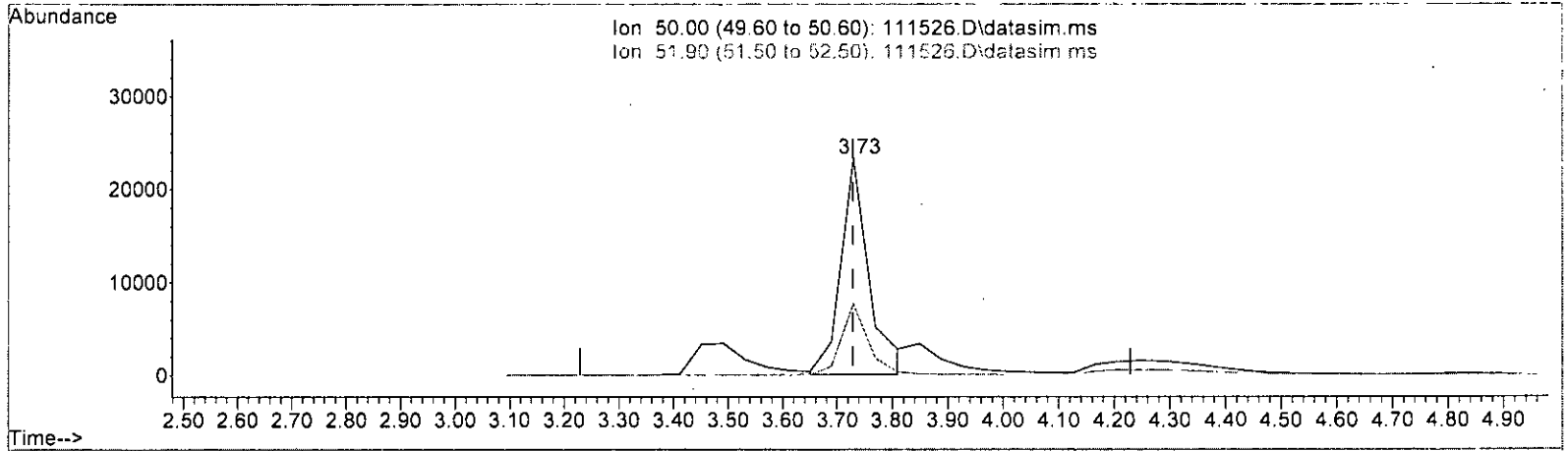
(4) Chloromethane (TMP)			
Time	Response	Exp%	Act%
3.729min (+ 0.000)	8.804 ppbv		
response	95954		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	33.24	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: W/1/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111526.D\data.ms

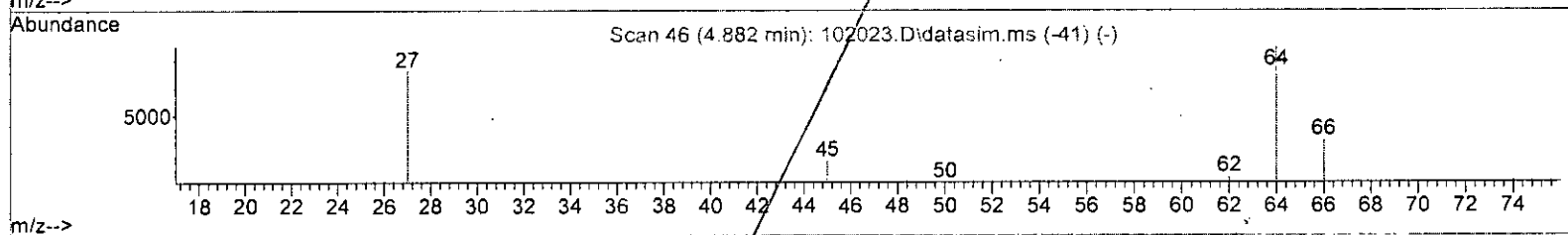
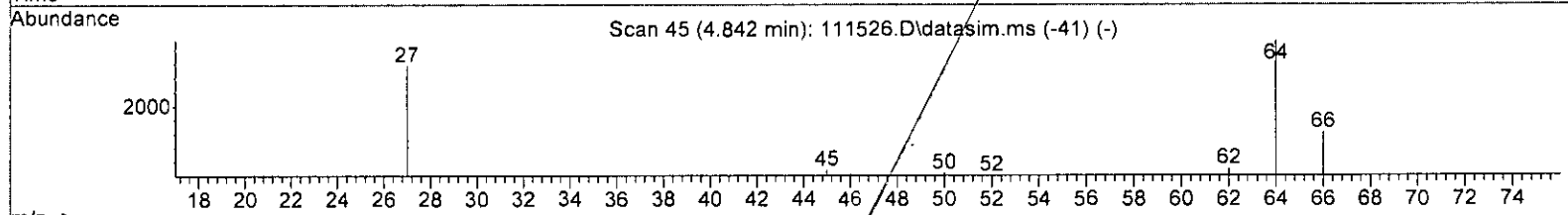
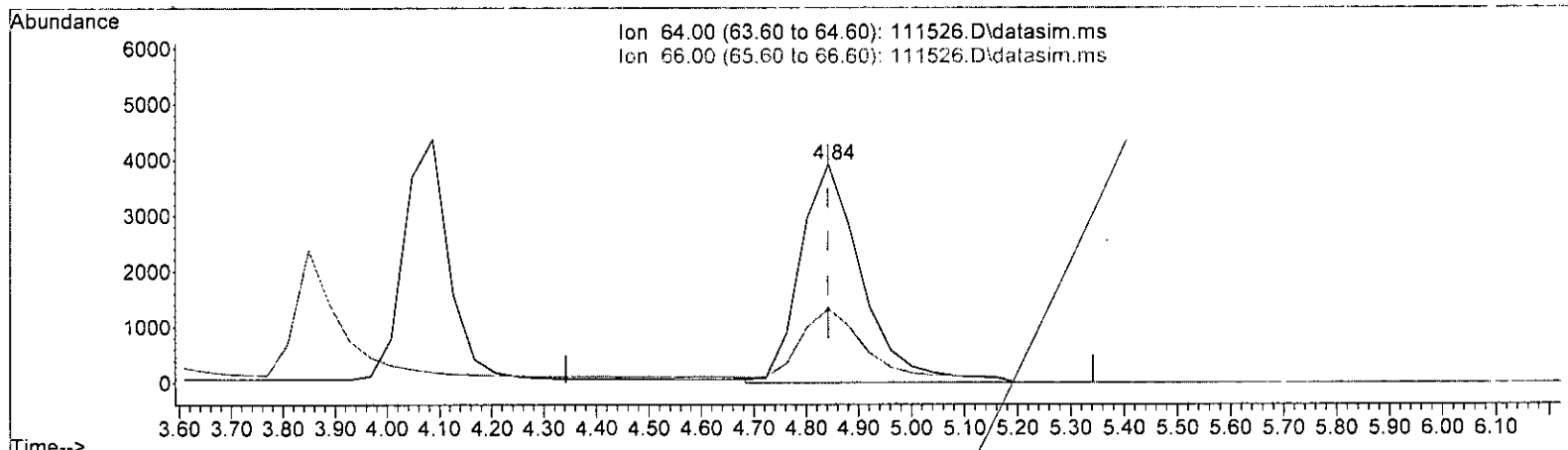
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	7.590 ppbv m	
response	82724	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	33.16
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111526.D\data.ms

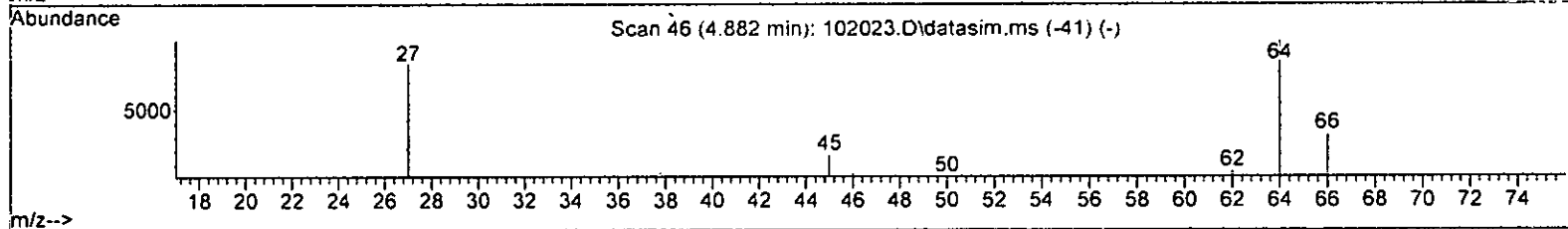
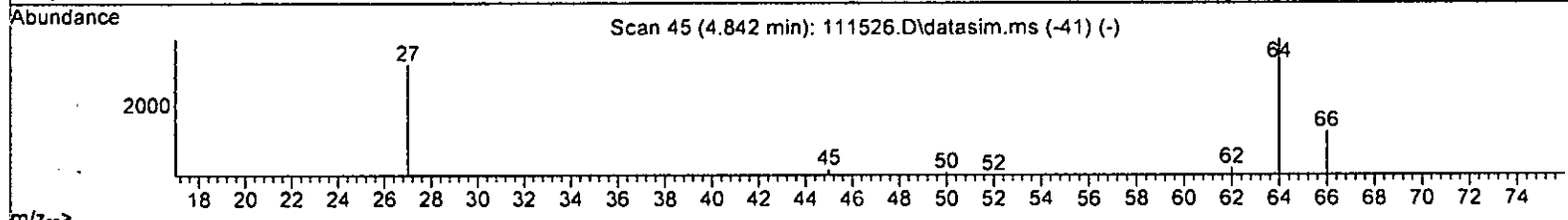
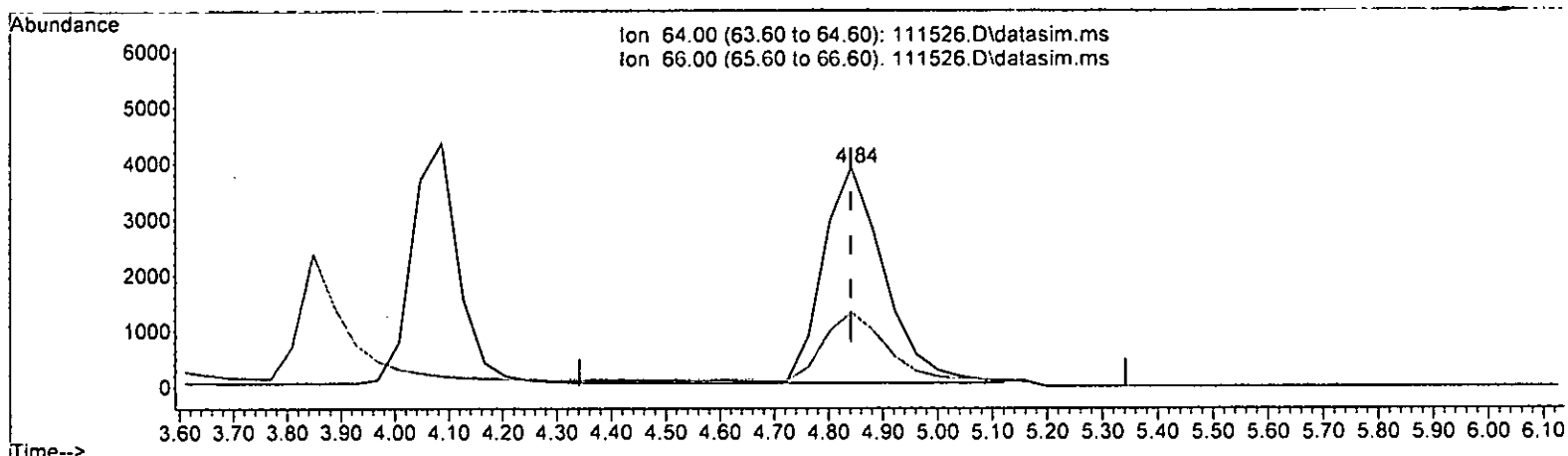
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	8.117 ppbv	
response	30758	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	33.81
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111526.D\data.ms

(10) Chloroethane (TMP)		
4.842min (+ 0.000)	7.938 ppbv m	
response	30082	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	33.81
0.00	0.00	0.00
0.00	0.00	0.00

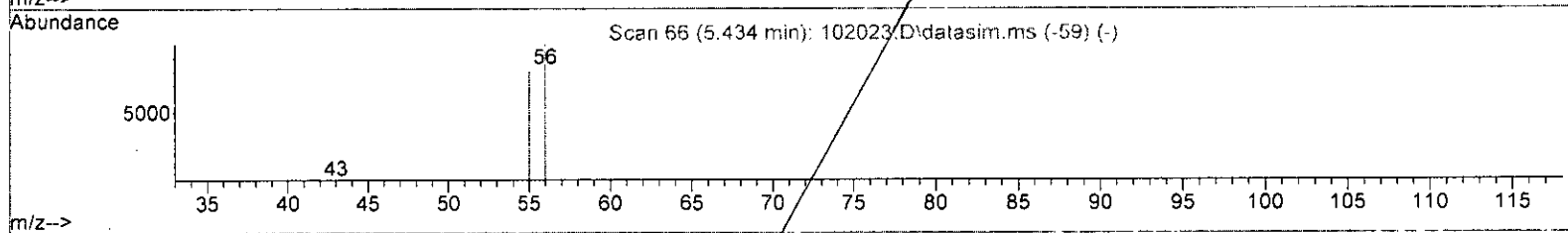
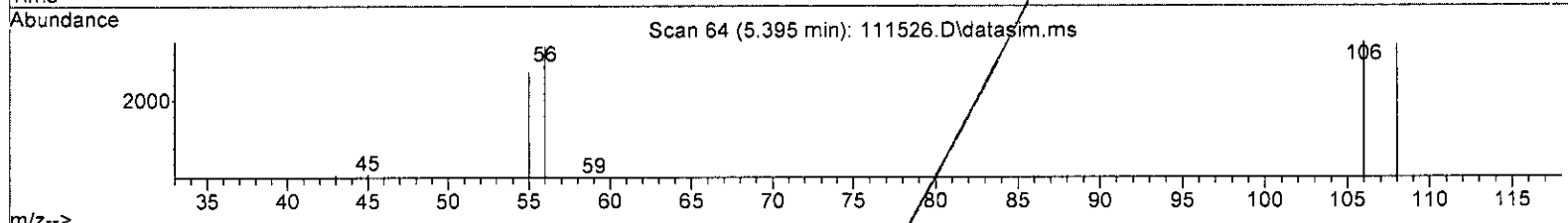
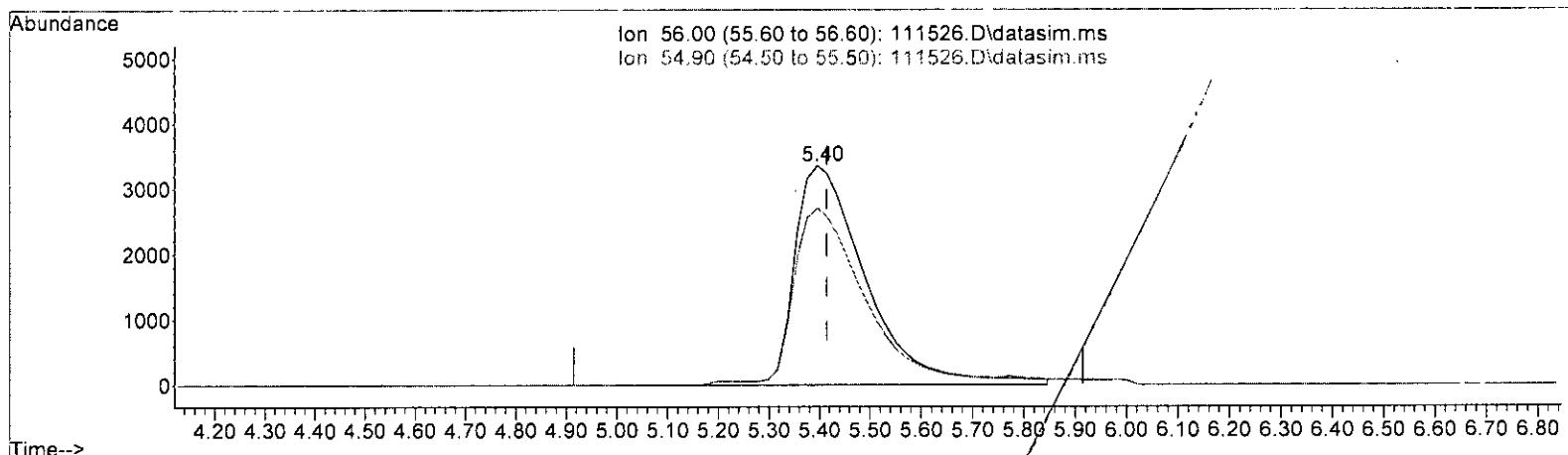
*h / 11/18/22*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111526.D\data.ms

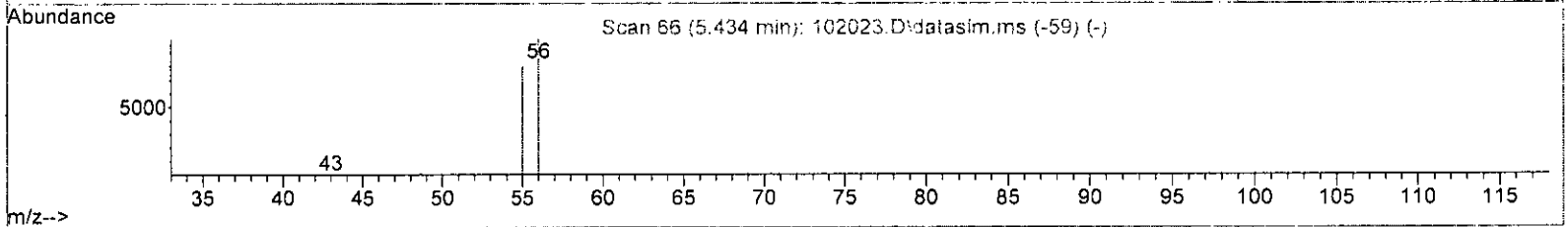
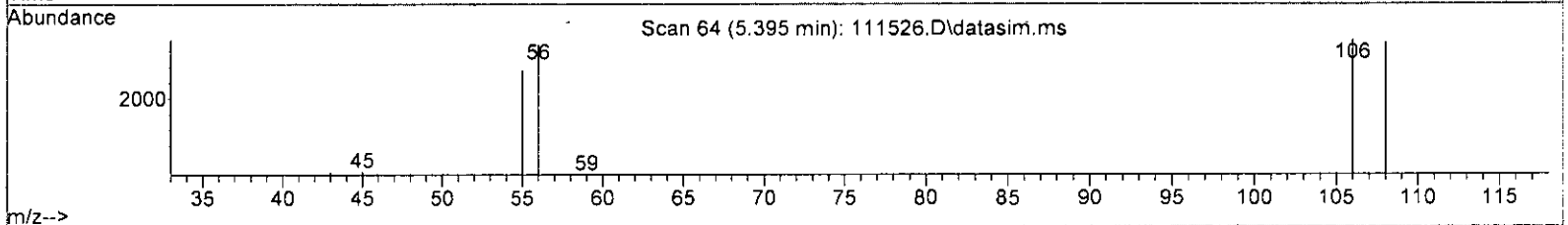
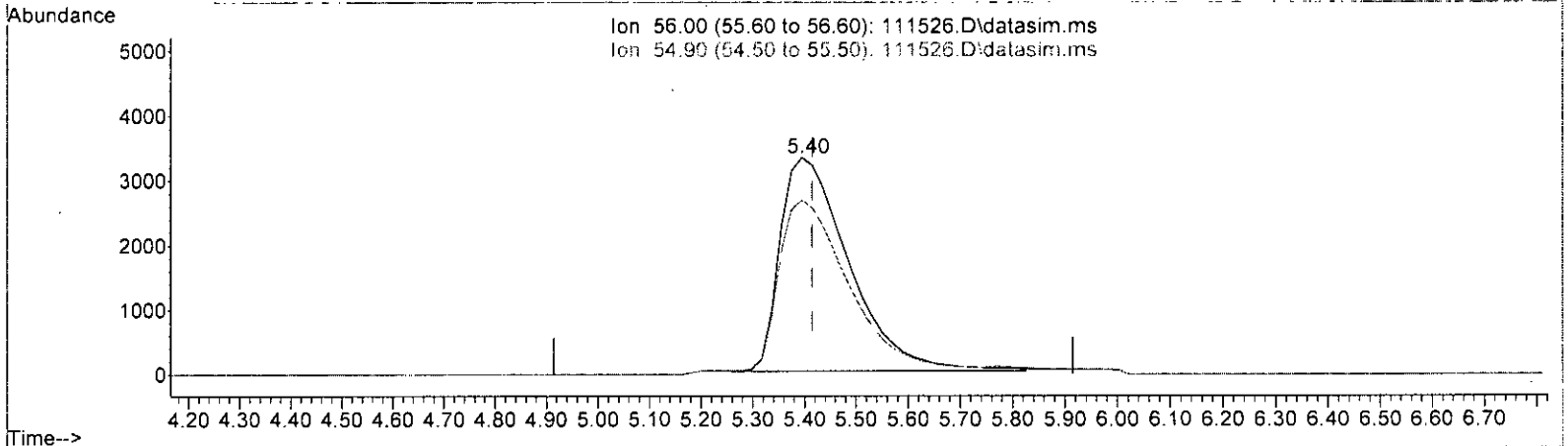
(13) Acrolein (TMP)		
5.395min (-0.020)	8.220 ppbv	
response	34689	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	81.75
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111526.D\data.ms

(13) Acrolein (TMP)			
5.395min (-0.020) 7.257 ppbv m			
response	30626		
Ion	Exp%	Act%	
56.00	100.00	100.00	
54.90	81.00	92.59	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	57898	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	276532	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	249716	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	184609	10.668	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	106.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	60607	7.880	ppbv	90
3) Dichlorodifluoromethane	3.49	85	194773	8.160	ppbv	99
4] Chloromethane	3.73	50	82724m	7.590	ppbv	
5) F-114	3.84	85	189665	7.768	ppbv	99
6] Vinyl chloride	4.09	62	80482	7.512	ppbv	98
7] 1,3-Butadiene	4.25	54	54000	7.670	ppbv #	94
8) Butane	4.32	43	99785	7.896	ppbv	98
9) Bromomethane	4.60	94	78745	7.363	ppbv	100
10] Chloroethane	4.84	64	30082m	7.938	ppbv	
11] Vinyl bromide	5.30	106	81586	8.756	ppbv	99
12) Ethanol	4.92	45	27496	7.161	ppbv	99
13] Acrolein	5.40	56	30626m	7.257	ppbv	
14) Pentane	6.25	43	115932	8.137	ppbv	100
15) Trichlorofluoromethane	5.84	101	219943	7.945	ppbv	96
16) Acetone	5.53	58	29407	7.149	ppbv #	82
17) 2-Propanol	5.78	45	145706	8.129	ppbv	98
18] 1,1-Dichloroethene	6.63	96	69577	7.304	ppbv	97
19] trans-1,2-Dichloroethene	8.07	96	70087	7.576	ppbv	87
20) Methylene chloride	6.80	84	67913	7.932	ppbv	97
21) t-Butyl alcohol (TBA)	6.57	59	126997	8.222	ppbv #	78
22) 3-Chloropropene	6.94	41	100017	8.401	ppbv	98
23) CFC-113	7.15	101	156633	7.798	ppbv	99
24) Carbon disulfide	7.25	76	242981	8.122	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	162580	8.178	ppbv	98
26) Vinyl acetate	8.54	43	191921	8.721	ppbv	99
27] 1,1-Dichloroethane	8.36	63	149826	7.742	ppbv	100
28] cis-1,2-Dichloroethene	9.64	96	74328	7.596	ppbv	95
29) Hexane	10.01	57	102225	8.537	ppbv	100
30] Chloroform	10.08	83	172350	8.045	ppbv	97
31) Ethyl acetate	9.92	43	181174	8.260	ppbv	99
32) Tetrahydrofuran	10.73	42	82156	7.842	ppbv	100
33) 2-Butanone (MEK)	8.88	72	28610	7.984	ppbv #	93
34] 1,2-Dichloroethane (EDC)	11.34	62	116150	8.064	ppbv	99
35] 1,1,1-Trichloroethane	11.81	97	155431	8.029	ppbv	98
36] Carbon tetrachloride	12.86	117	162195	7.953	ppbv	97
37] Benzene	12.61	78	236754	8.082	ppbv	94
38) Cyclohexane	13.07	84	62880	7.945	ppbv	99
40] 1,2-Dichloropropane	13.80	63	110626	7.389	ppbv	99

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

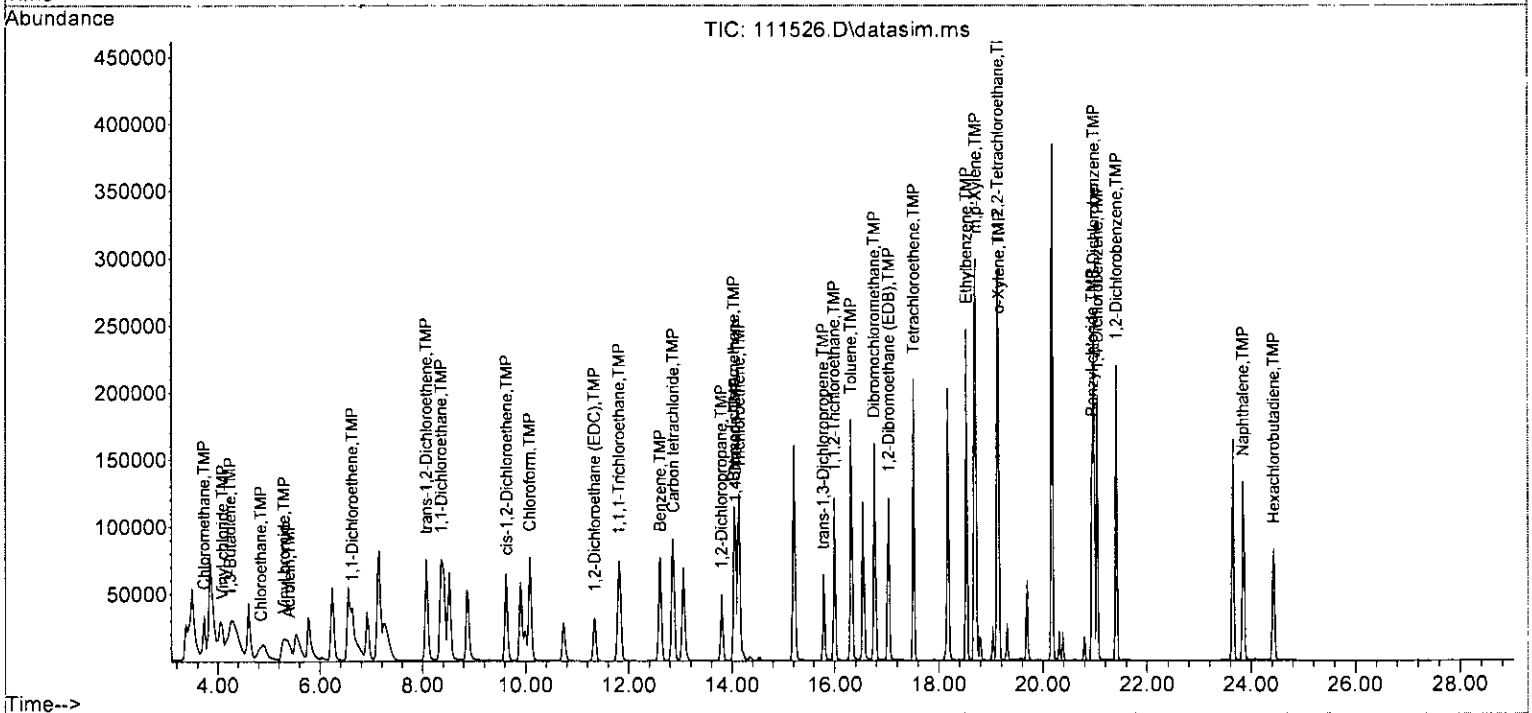
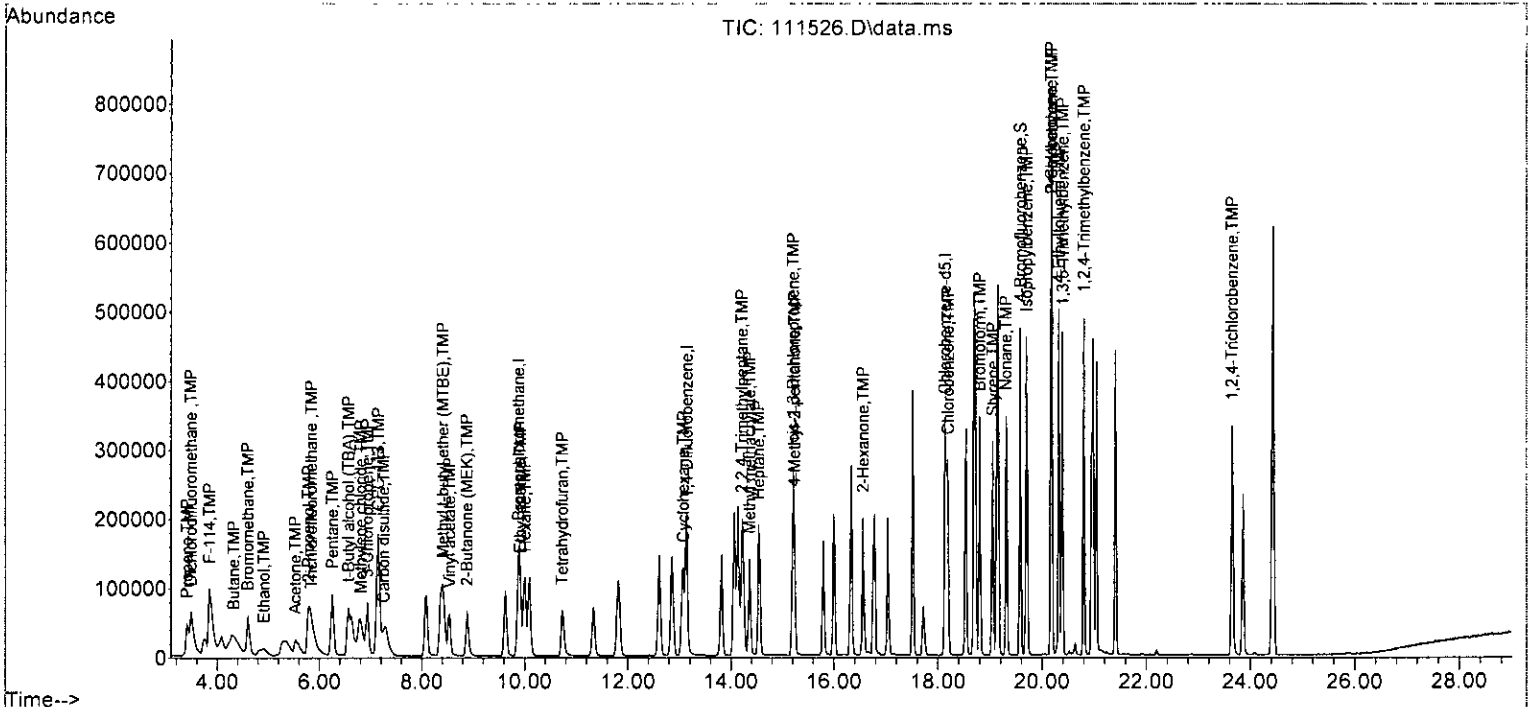
Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	47661	7.485	ppbv	96
42) 2,2,4-Trimethylpentane	14.21	57	352715	7.980	ppbv	95
43) Methyl methacrylate	14.36	41	106611	7.945	ppbv	99
44) Heptane	14.53	43	148087	8.072	ppbv	99
45] Bromodichloromethane	14.04	83	182777	7.780	ppbv	98
46] Trichloroethene	14.14	95	114292	6.968	ppbv	89
47) cis-1,3-Dichloropropene	15.20	75	136023	8.216	ppbv	99
48) 4-Methyl-2-pentanone	15.23	100	10309	8.424	ppbv #	91
49] trans-1,3-Dichloropropene	15.78	75	128251	8.236	ppbv	84
50] Toluene	16.31	92	149046	7.623	ppbv	94
51] 1,1,2-Trichloroethane	16.00	83	107175	7.887	ppbv	90
52) 2-Hexanone	16.56	43	190304	8.132	ppbv	100
53] Tetrachloroethene	17.52	164	99097	7.316	ppbv	94
54] Dibromochloromethane	16.76	129	186526	7.836	ppbv	100
55] 1,2-Dibromoethane (EDB)	17.04	107	158882	7.885	ppbv	100
57) Chlorobenzene	18.19	112	206369	7.507	ppbv	99
58] Ethylbenzene	18.53	91	346285	7.913	ppbv	96
59] 1,1,2,2-Tetrachloroethane	19.13	83	247900	7.830	ppbv	91
60) Nonane	19.30	43	213529	8.720	ppbv	99
61) Isopropylbenzene	19.70	105	357839	7.997	ppbv	99
62) 2-Chlorotoluene	20.17	126	88909	7.947	ppbv	96
63) Propylbenzene	20.17	91	708723	8.621	ppbv	100
64) 4-Ethyltoluene	20.32	105	344349	8.558	ppbv	100
65] m,p-Xylene	18.70	106	254241	16.077	ppbv	94
66] o-Xylene	19.15	106	121142	7.891	ppbv	97
67) Styrene	19.05	104	175394	8.577	ppbv	99
68) Bromoform	18.80	173	197351	7.685	ppbv	99
70] Benzyl chloride	20.95	91	255045	8.233	ppbv	100
71) 1,3,5-Trimethylbenzene	20.39	105	311808	8.612	ppbv	99
72) 1,2,4-Trimethylbenzene	20.80	105	292011	8.027	ppbv	99
73] 1,3-Dichlorobenzene	20.98	146	212478	8.409	ppbv	97
74] 1,4-Dichlorobenzene	21.05	146	200868	8.495	ppbv	98
75] 1,2-Dichlorobenzene	21.41	146	211087	8.253	ppbv	92
76) 1,2,4-Trichlorobenzene	23.64	180	162307	8.193	ppbv	97
77] Naphthalene	23.84	128	279810	8.318	ppbv	99
78] Hexachlorobutadiene	24.44	225	201399	7.721	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	8.000	7.880	1.5	100	0.00
3 TMP Dichlorodifluoromethane	8.000	8.160	-2.0	100	0.00
4 TMP Chloromethane	8.000	7.590	5.1	100	0.00
5 TMP F-114	8.000	7.768	2.9	101	-0.04
6 TMP Vinyl chloride	8.000	7.512	6.1	100	0.00
7 TMP 1,3-Butadiene	8.000	7.670	4.1	100	-0.04
8 TMP Butane	8.000	7.896	1.3	101	0.00
9 TMP Bromomethane	8.000	7.363	8.0	100	0.00
10 TMP Chloroethane	8.000	7.938	0.8	101	0.00
11 TMP Vinyl bromide	8.000	8.756	-9.5	100	-0.02
12 TMP Ethanol	8.000	7.161	10.5	100	-0.04
13 TMP Acrolein	8.000	7.257	9.3	102	-0.02
14 TMP Pentane	8.000	8.137	-1.7	100	0.00
15 TMP Trichlorofluoromethane	8.000	7.945	0.7	100	0.00
16 TMP Acetone	8.000	7.149	10.6	100	-0.04
17 TMP 2-Propanol	8.000	8.129	-1.6	98	0.00
18 TMP 1,1-Dichloroethene	8.000	7.304	8.7	100	0.00
19 TMP trans-1,2-Dichloroethene	8.000	7.576	5.3	100	-0.03
20 TMP Methylene chloride	8.000	7.932	0.8	100	0.00
21 TMP t-Butyl alcohol (TBA)	8.000	8.222	-2.8	100	0.00
22 TMP 3-Chloropropene	8.000	8.401	-5.0	100	0.00
23 TMP CFC-113	8.000	7.798	2.5	100	0.00
24 TMP Carbon disulfide	8.000	8.122	-1.5	100	-0.03
25 TMP Methyl t-butyl ether (MTBE)	8.000	8.178	-2.2	100	-0.03
26 TMP Vinyl acetate	8.000	8.721	-9.0	100	0.00
27 TMP 1,1-Dichloroethane	8.000	7.742	3.2	100	0.00
28 TMP cis-1,2-Dichloroethene	8.000	7.596	5.0	100	0.00
29 TMP Hexane	8.000	8.537	-6.7	100	0.00
30 TMP Chloroform	8.000	8.045	-0.6	100	-0.02
31 TMP Ethyl acetate	8.000	8.260	-3.2	100	0.00
32 TMP Tetrahydrofuran	8.000	7.842	2.0	100	-0.02
33 TMP 2-Butanone (MEK)	8.000	7.984	0.2	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	8.000	8.064	-0.8	100	0.00
35 TMP 1,1,1-Trichloroethane	8.000	8.029	-0.4	100	-0.01
36 TMP Carbon tetrachloride	8.000	7.953	0.6	100	0.00
37 TMP Benzene	8.000	8.082	-1.0	100	0.00
38 TMP Cyclohexane	8.000	7.945	0.7	100	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	8.000	7.389	7.6	100	0.00
41 TMP 1,4-Dioxane	8.000	7.485	6.4	100	-0.02
42 TMP 2,2,4-Trimethylpentane	8.000	7.980	0.2	100	-0.02
43 TMP Methyl methacrylate	8.000	7.945	0.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	8.000	8.072	-0.9	100	-0.02
45 TMP Bromodichloromethane	8.000	7.780	2.7	100	0.00
46 TMP Trichloroethene	8.000	6.968	12.9	100	0.00
47 TMP cis-1,3-Dichloropropene	8.000	8.216	-2.7	100	0.00
48 TMP 4-Methyl-2-pentanone	8.000	8.424	-5.3	100	0.00
49 TMP trans-1,3-Dichloropropene	8.000	8.236	-3.0	100	0.00
50 TMP Toluene	8.000	7.623	4.7	100	0.00
51 TMP 1,1,2-Trichloroethane	8.000	7.887	1.4	100	0.00
52 TMP 2-Hexanone	8.000	8.132	-1.6	100	0.00
53 TMP Tetrachloroethene	8.000	7.316	8.6	100	0.00
54 TMP Dibromochloromethane	8.000	7.836	2.0	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	8.000	7.885	1.4	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	8.000	7.507	6.2	100	0.00
58 TMP Ethylbenzene	8.000	7.913	1.1	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	8.000	7.830	2.1	100	0.00
60 TMP Nonane	8.000	8.720	-9.0	100	0.00
61 TMP Isopropylbenzene	8.000	7.997	0.0	100	0.00
62 TMP 2-Chlorotoluene	8.000	7.947	0.7	100	0.00
63 TMP Propylbenzene	8.000	8.621	-7.8	100	-0.01
64 TMP 4-Ethyltoluene	8.000	8.558	-7.0	100	0.00
65 TMP m,p-Xylene	16.000	16.077	-0.5	100	0.00
66 TMP o-Xylene	8.000	7.891	1.4	100	0.00
67 TMP Styrene	8.000	8.577	-7.2	100	0.00
68 TMP Bromoform	8.000	7.685	3.9	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.668	-6.7	100	0.00
70 TMP Benzyl chloride	8.000	8.233	-2.9	101	0.00
71 TMP 1,3,5-Trimethylbenzene	8.000	8.612	-7.7	100	0.00
72 TMP 1,2,4-Trimethylbenzene	8.000	8.027	-0.3	100	0.00
73 TMP 1,3-Dichlorobenzene	8.000	8.409	-5.1	100	0.00
74 TMP 1,4-Dichlorobenzene	8.000	8.495	-6.2	100	0.00
75 TMP 1,2-Dichlorobenzene	8.000	8.253	-3.2	100	0.00
76 TMP 1,2,4-Trichlorobenzene	8.000	8.193	-2.4	100	0.00
77 TMP Naphthalene	8.000	8.318	-4.0	100	0.00
78 TMP Hexachlorobutadiene	8.000	7.721	3.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.308	15.9	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.205	-2.0	100	0.00
4 TMP Chloromethane	1.882	1.786	5.1	100	0.00
5 TMP F-114	4.217	4.095	2.9	101	-0.04
6 TMP Vinyl chloride	1.851	1.738	6.1	100	0.00
7 TMP 1,3-Butadiene	1.216	1.166	4.1	100	-0.04
8 TMP Butane	2.183	2.154	1.3	101	0.00
9 TMP Bromomethane	1.847	1.700	8.0	100	0.00
10 TMP Chloroethane	0.655	0.649	0.9	101	0.00
11 TMP Vinyl bromide	1.609	1.761	-9.4	100	-0.02
12 TMP Ethanol	0.663	0.594	10.4	100	-0.04
13 TMP Acrolein	0.729	0.661	9.3	102	-0.02
14 TMP Pentane	2.461	2.503	-1.7	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.749	0.7	100	0.00
16 TMP Acetone	0.710	0.635	10.6	100	-0.04
17 TMP 2-Propanol	3.096	3.146	-1.6	98	0.00
18 TMP 1,1-Dichloroethene	1.645	1.502	8.7	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.513	5.3	100	-0.03
20 TMP Methylene chloride	1.479	1.466	0.9	100	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.742	-2.8	100	0.00
22 TMP 3-Chloropropene	2.056	2.159	-5.0	100	0.00
23 TMP CFC-113	3.469	3.382	2.5	100	0.00
24 TMP Carbon disulfide	5.167	5.246	-1.5	100	-0.03
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.510	-2.2	100	-0.03
26 TMP Vinyl acetate	3.801	4.144	-9.0	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.235	3.2	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.605	5.0	100	0.00
29 TMP Hexane	2.068	2.207	-6.7	100	0.00
30 TMP Chloroform	4.060	3.721	8.3	100	-0.02
31 TMP Ethyl acetate	3.789	3.911	-3.2	100	0.00
32 TMP Tetrahydrofuran	1.809	1.774	1.9	100	-0.02
33 TMP 2-Butanone (MEK)	0.619	0.618	0.2	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.508	6.7	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.356	-0.4	100	-0.01
36 TMP Carbon tetrachloride	3.523	3.502	0.6	100	0.00
37 TMP Benzene	5.688	5.111	10.1	100	0.00
38 TMP Cyclohexane	1.367	1.358	0.7	100	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.500	7.6	100	0.00
41 TMP 1,4-Dioxane	0.230	0.215	6.5	100	-0.02
42 TMP 2,2,4-Trimethylpentane	1.598	1.594	0.3	100	-0.02
43 TMP Methyl methacrylate	0.485	0.482	0.6	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.669	-0.9	100	-0.02
45 TMP Bromodichloromethane	0.850	0.826	2.8	100	0.00
46 TMP Trichloroethene	0.593	0.517	12.8	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.615	-2.7	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.047	-6.8	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.580	-3.0	100	0.00
50 TMP Toluene	0.707	0.674	4.7	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.484	12.0	100	0.00
52 TMP 2-Hexanone	0.846	0.860	-1.7	100	0.00
53 TMP Tetrachloroethene	0.490	0.448	8.6	100	0.00
54 TMP Dibromochloromethane	0.861	0.843	2.1	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.718	12.9	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.033	6.2	100	0.00
58 TMP Ethylbenzene	1.968	1.733	11.9	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.241	11.0	100	0.00
60 TMP Nonane	0.981	1.069	-9.0	100	0.00
61 TMP Isopropylbenzene	1.792	1.791	0.1	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.445	0.7	100	0.00
63 TMP Propylbenzene	3.292	3.548	-7.8	100	-0.01
64 TMP 4-Ethyltoluene	1.611	1.724	-7.0	100	0.00
65 TMP m,p-Xylene	0.633	0.636	-0.5	100	0.00
66 TMP o-Xylene	0.615	0.606	1.5	100	0.00
67 TMP Styrene	0.819	0.878	-7.2	100	0.00
68 TMP Bromoform	1.028	0.988	3.9	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.739	-6.6	100	0.00
70 TMP Benzyl chloride	0.987	1.277	-29.4	101	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.561	-7.7	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.462	-17.2	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.064	-5.1	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.005	-6.1	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.057	-3.2	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.812	-29.7	100	0.00
77 TMP Naphthalene	1.132	1.401	-23.8	100	0.00
78 TMP Hexachlorobutadiene	1.045	1.008	3.5	100	0.00

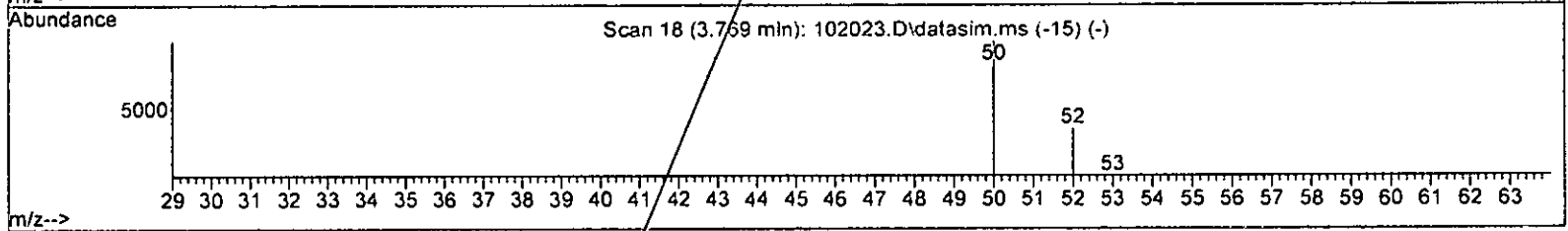
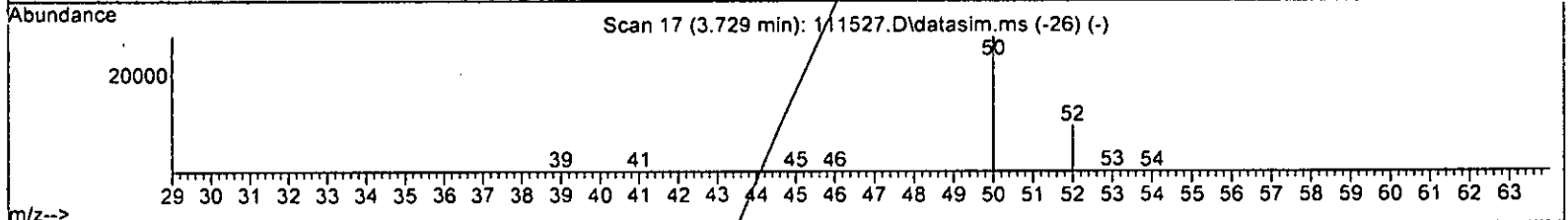
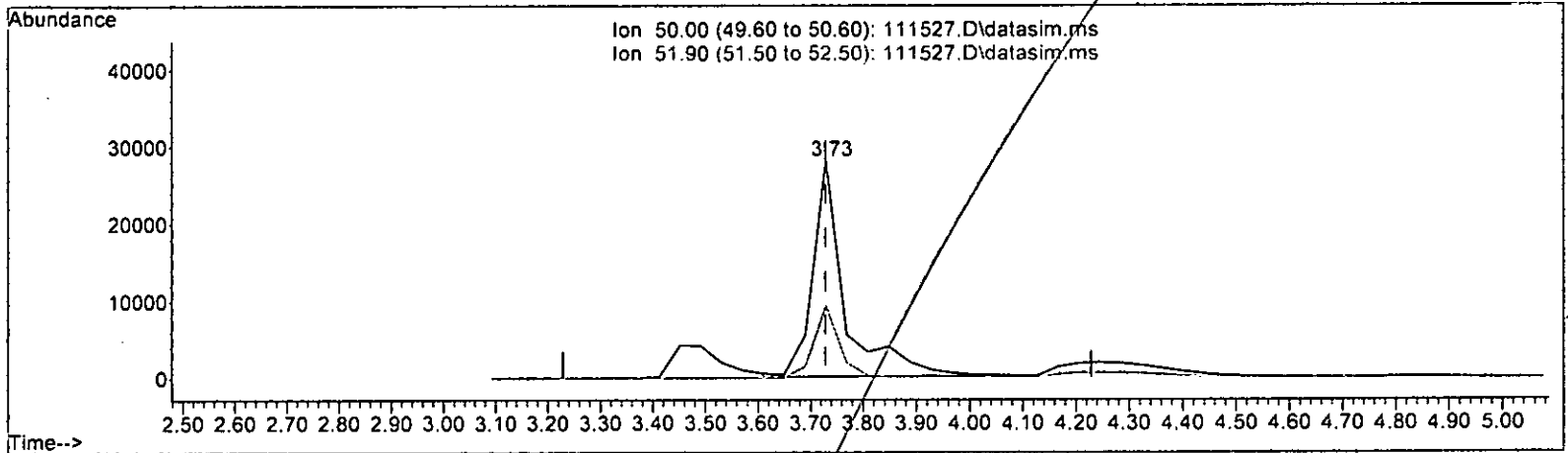
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

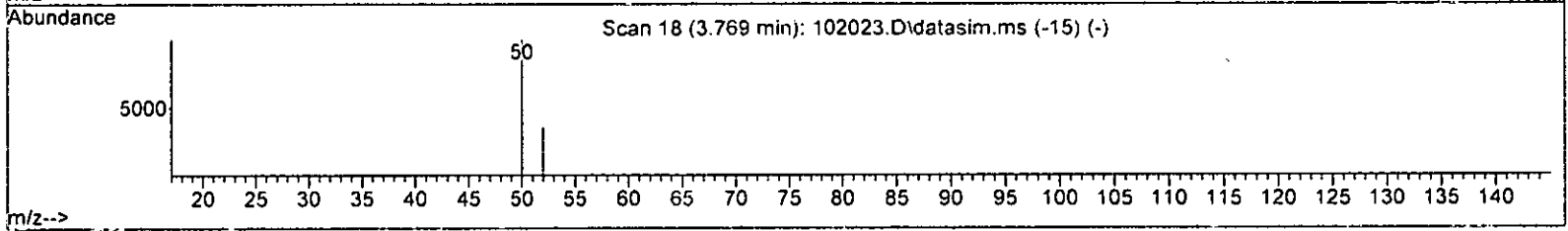
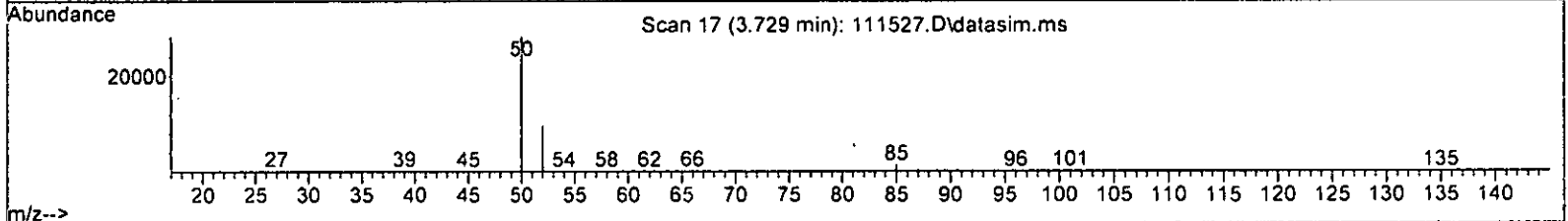
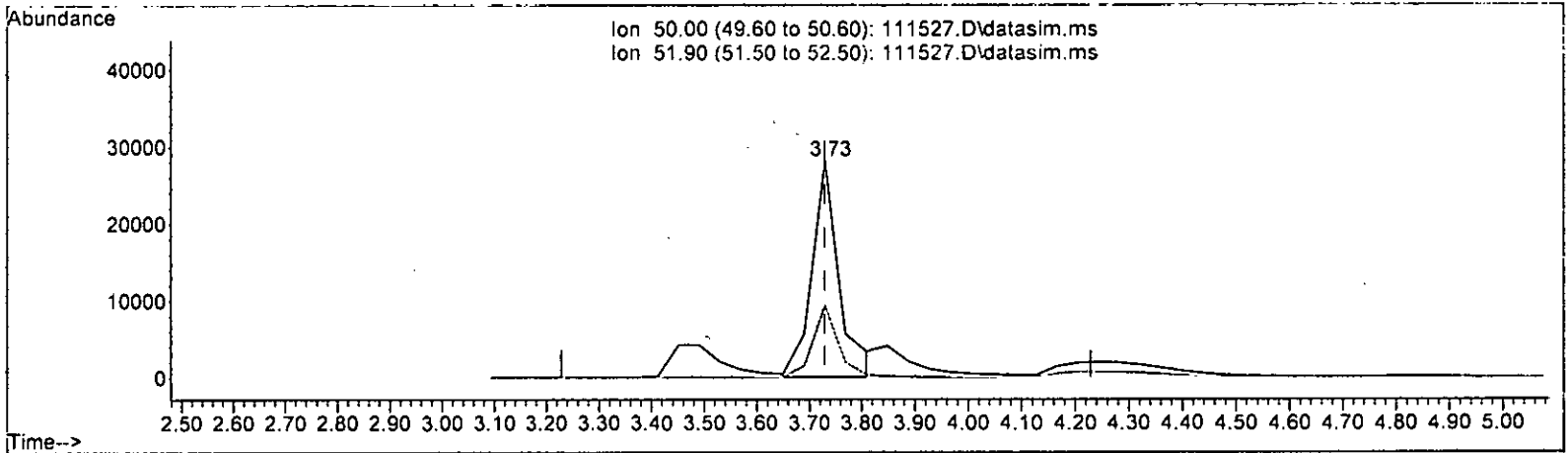
(4) Chloromethane (TMP)			
3.729min (+ 0.000)	10.787 ppbv		
response	118499		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	33.58	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: h/ll*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

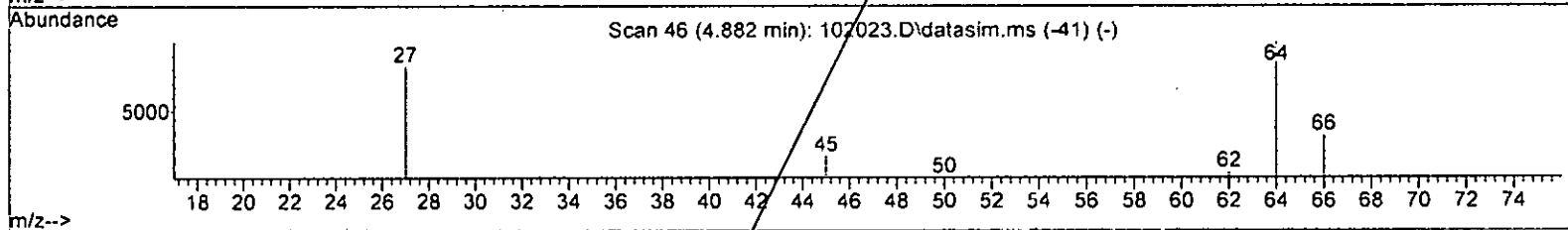
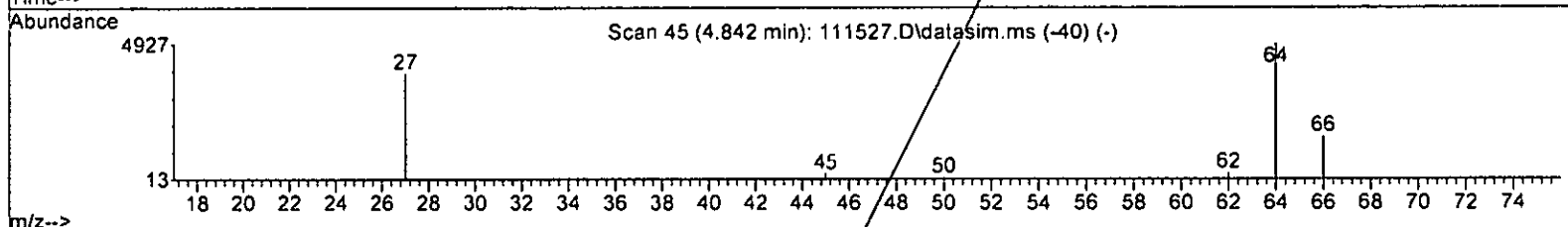
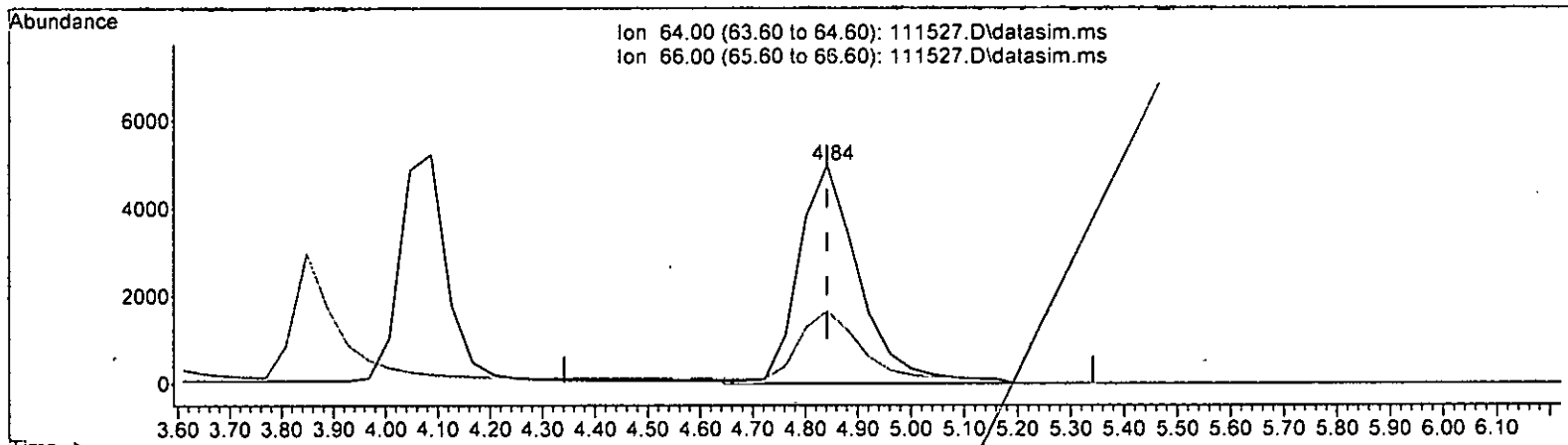
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	9.259 ppbv m	
response	101714	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	33.45
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

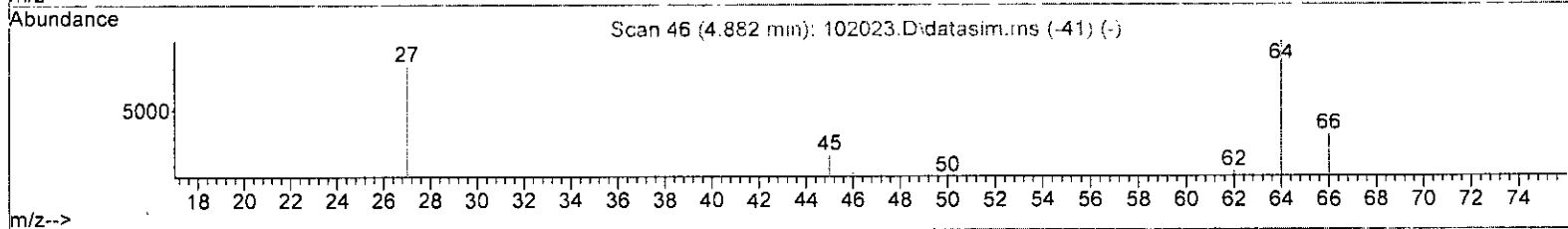
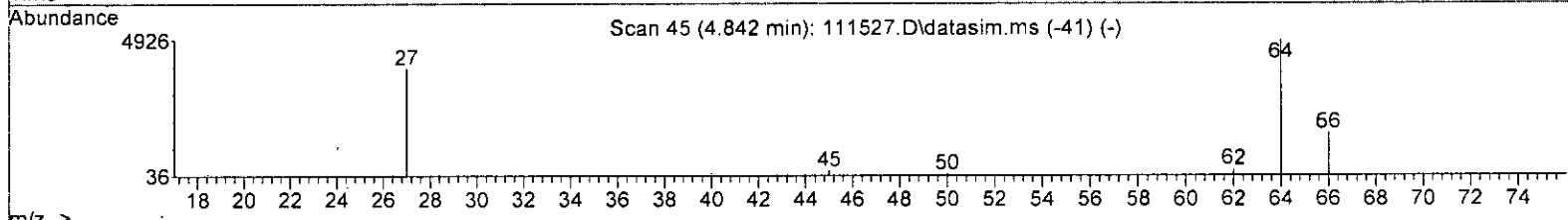
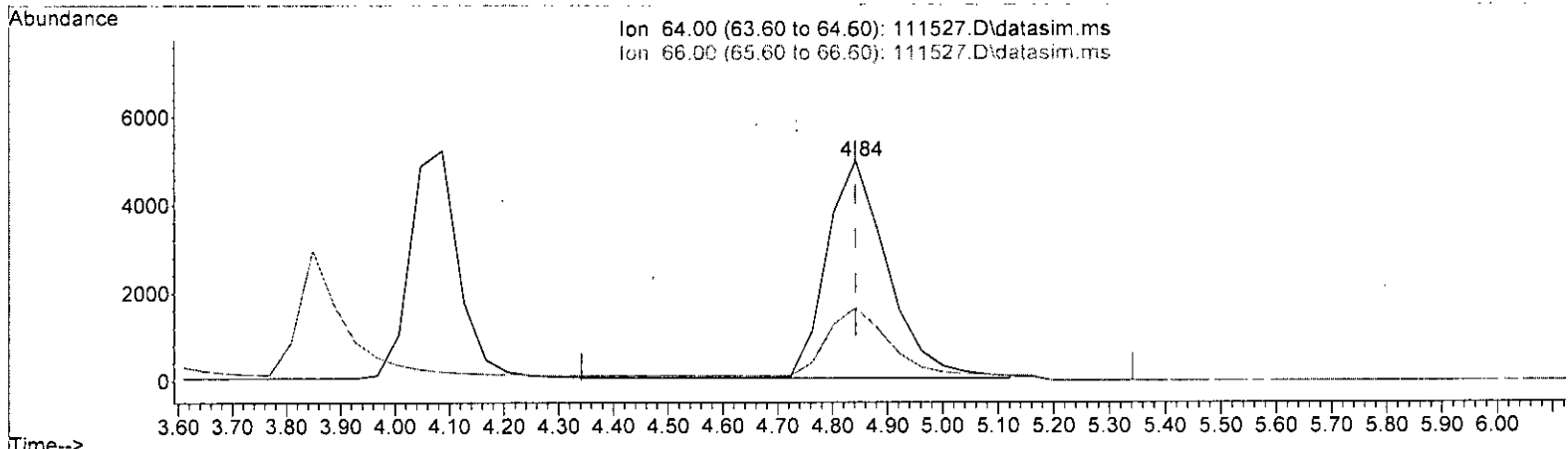
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	10.042 ppbv	
response	38357	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	33.27
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

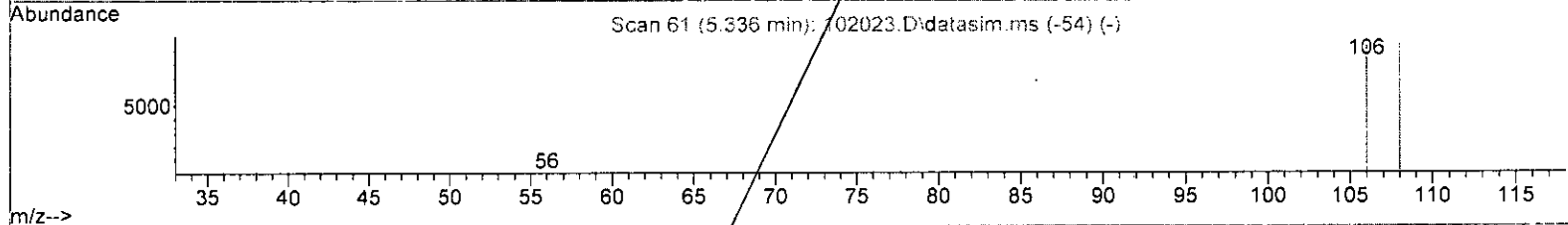
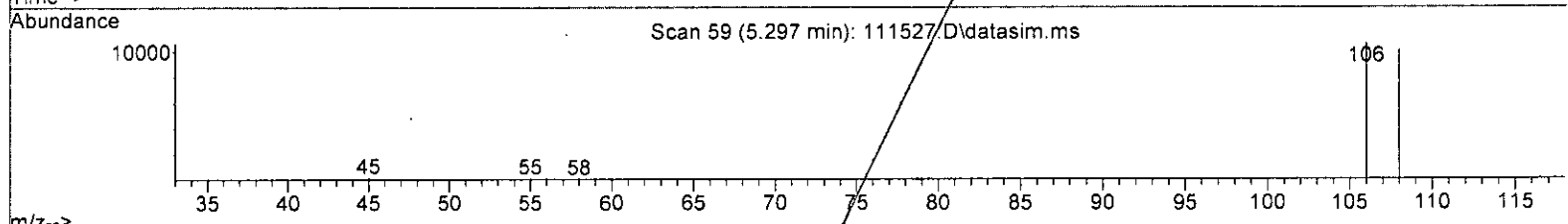
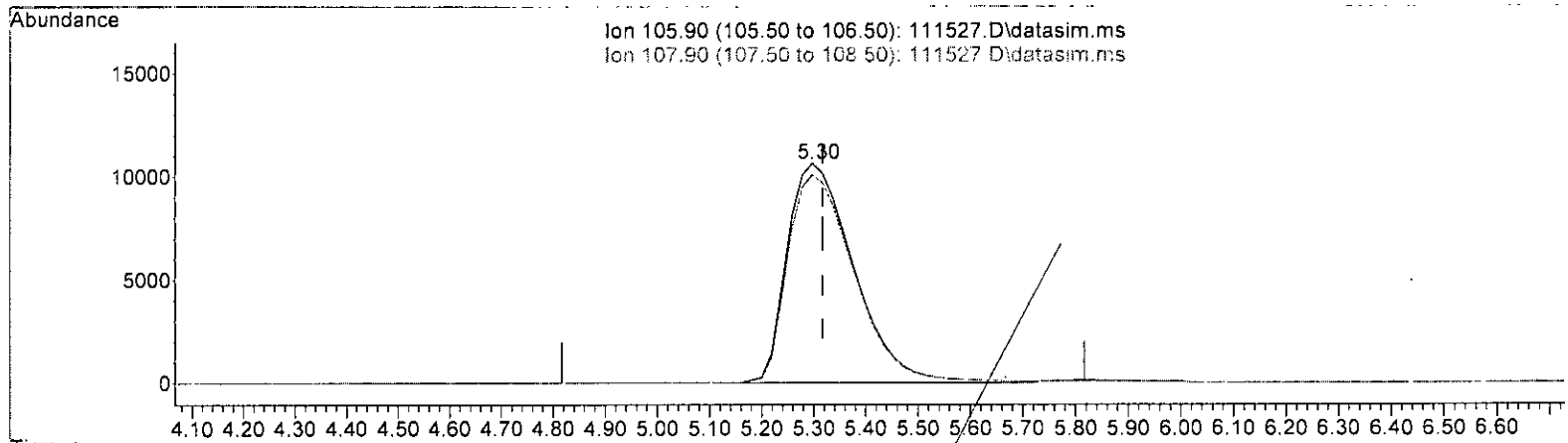
(10)	Chloroethane (TMP)		
4.842min (+ 0.000)	9.932 ppbv m		
response	37934		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	31.80	33.27	
0.00	0.00	0.00	
0.00	0.00	0.00	

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

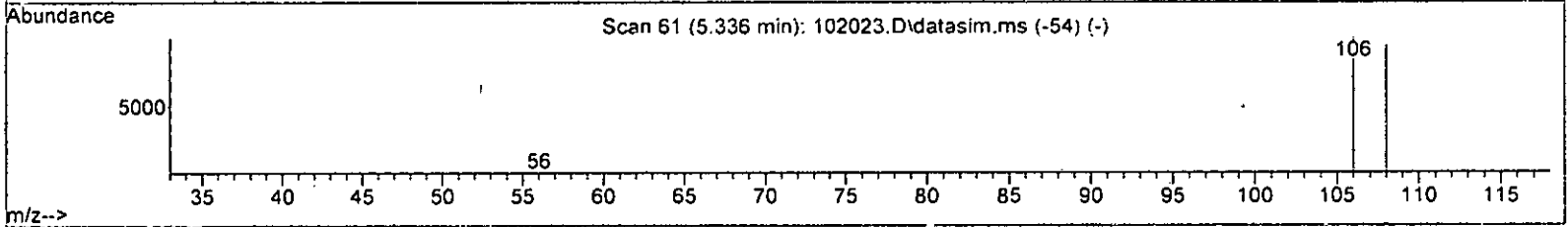
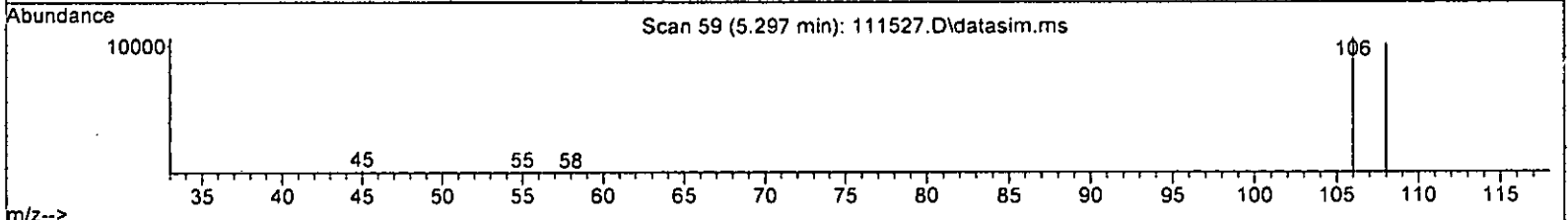
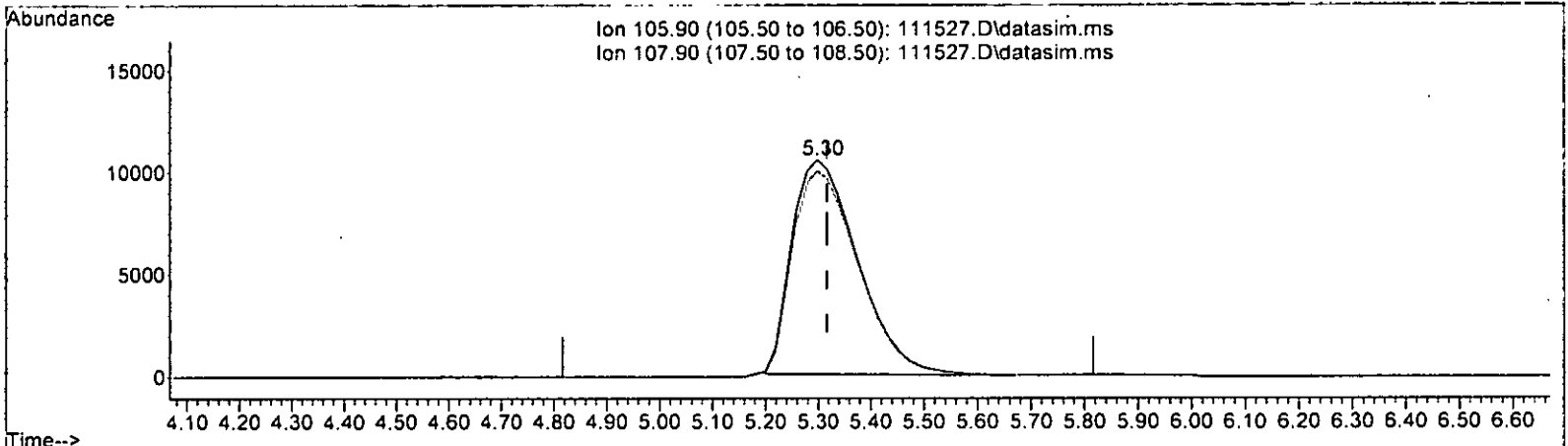
(11) Vinyl bromide (TMP)		
5.297min (-0.020)	10.784 ppbv	
response	101276	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	94.81
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

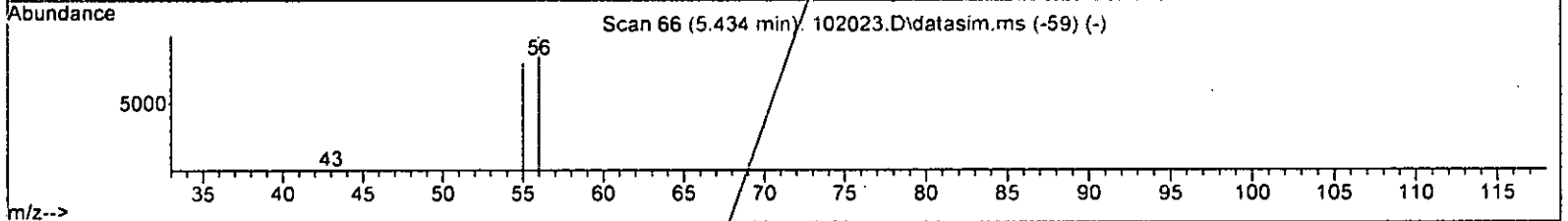
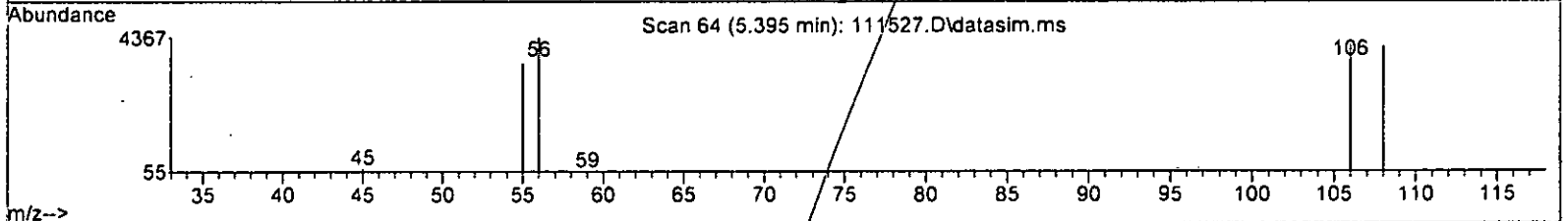
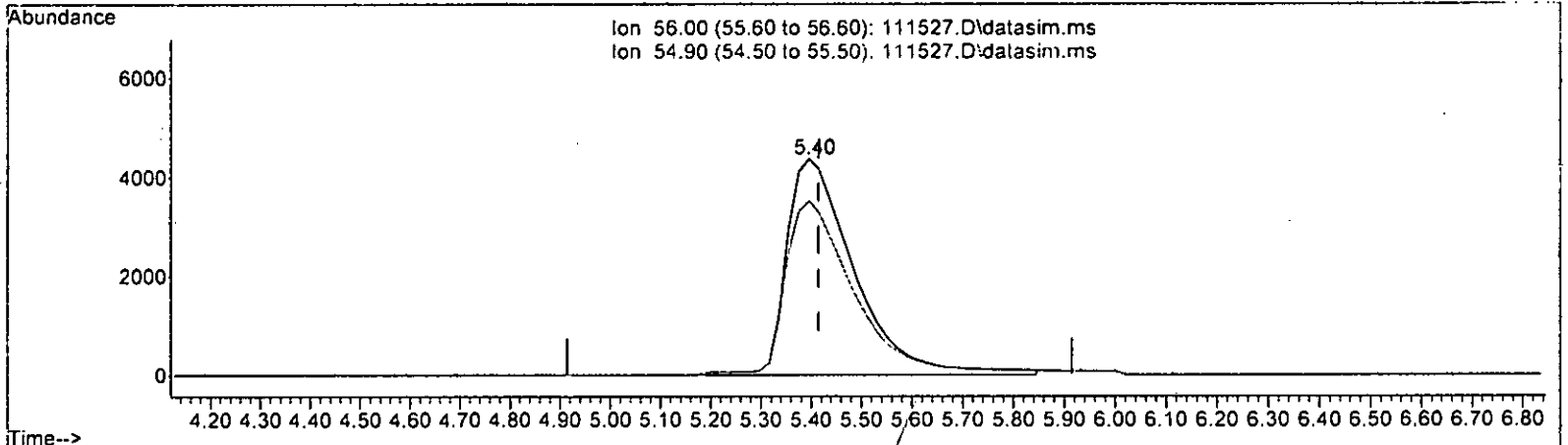
(11) Vinyl bromide (TMP)		
5.297min (-0.020)	9.705 ppbv m	
response	91145	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	105.35
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111527.D\data.ms

(13) Acrolein (TMP)		
5.395min (-0.020)	10.122 ppbv	
response	43055	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	81.49
0.00	0.00	0.00
0.00	0.00	0.00

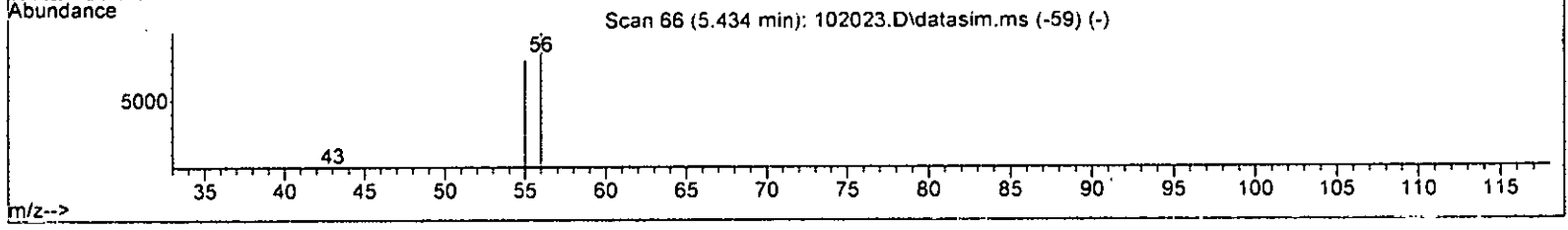
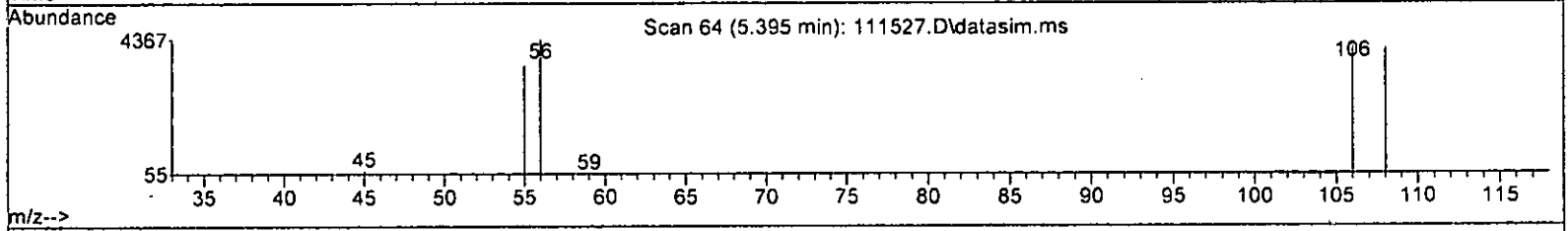
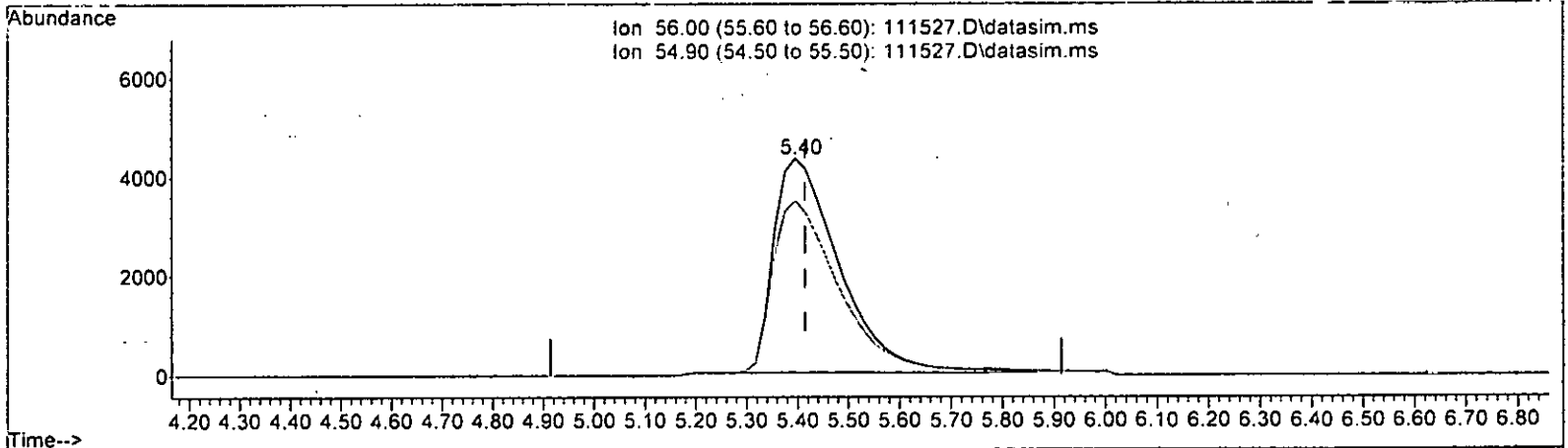
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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

(13) Acrolein (TMP)		
5.395min (-0.020)	9.059 ppbv m	
response	38532	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	91.05
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	58357	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.12	114	276208	10.000	ppbv	-0.02
56) Chlorobenzene-d5	18.13	117	247864	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	184316	10.730	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 107.30%		
Target Compounds						
						Qvalue
2) Propene	3.41	41	79041	10.097	ppbv	98
3) Dichlorodifluoromethane	3.49	85	240719	10.006	ppbv	99
4) Chloromethane	3.73	50	101714m	9.259	ppbv	
5) F-114	3.84	85	231743	9.417	ppbv	97
6] Vinyl chloride	4.09	62	100443	9.301	ppbv	98
7] 1,3-Butadiene	4.25	54	67722	9.543	ppbv #	95
8) Butane	4.32	43	128132	10.059	ppbv	100
9) Bromomethane	4.60	94	99986	9.276	ppbv	96
10] Chloroethane	4.84	64	37934m	9.932	ppbv	
11] Vinyl bromide	5.30	106	91145m	9.705	ppbv	
12) Ethanol	4.92	45	32558	8.413	ppbv	92
13] Acrolein	5.40	56	38532m	9.059	ppbv	
14) Pentane	6.25	43	142420	9.918	ppbv	97
15) Trichlorofluoromethane	5.82	101	267583	9.590	ppbv	98
16) Acetone	5.53	58	36911	8.903	ppbv	99
17) 2-Propanol	5.78	45	184321	10.202	ppbv	100
18] 1,1-Dichloroethene	6.63	96	86513	9.010	ppbv	97
19] trans-1,2-Dichloroethene	8.07	96	87383	9.371	ppbv	89
20) Methylene chloride	6.80	84	80765	9.358	ppbv	97
21) t-Butyl alcohol (TBA)	6.57	59	160818	10.330	ppbv #	77
22) 3-Chloropropene	6.94	41	124548	10.380	ppbv	99
23) CFC-113	7.15	101	199138	9.836	ppbv	98
24) Carbon disulfide	7.25	76	302857	10.044	ppbv	96
25) Methyl t-butyl ether (...)	8.41	73	204898	10.225	ppbv	97
26) Vinyl acetate	8.54	43	242603	10.937	ppbv	99
27] 1,1-Dichloroethane	8.36	63	185442	9.507	ppbv	100
28] cis-1,2-Dichloroethene	9.64	96	92706	9.400	ppbv	96
29) Hexane	10.01	57	124929	10.352	ppbv	97
30] Chloroform	10.08	83	213310	10.013	ppbv	96
31) Ethyl acetate	9.92	43	230833	10.441	ppbv	99
32) Tetrahydrofuran	10.74	42	116277	11.012	ppbv	94
33) 2-Butanone (MEK)	8.88	72	36075	9.988	ppbv #	91
34] 1,2-Dichloroethane (EDC)	11.34	62	143645	9.996	ppbv	99
35] 1,1,1-Trichloroethane	11.81	97	192631	9.873	ppbv	98
36] Carbon tetrachloride	12.86	117	200993	9.777	ppbv	97
37] Benzene	12.61	78	294312	10.048	ppbv	94
38) Cyclohexane	13.07	84	79676	9.988	ppbv	99
40] 1,2-Dichloropropane	13.80	63	136722	9.142	ppbv	98

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

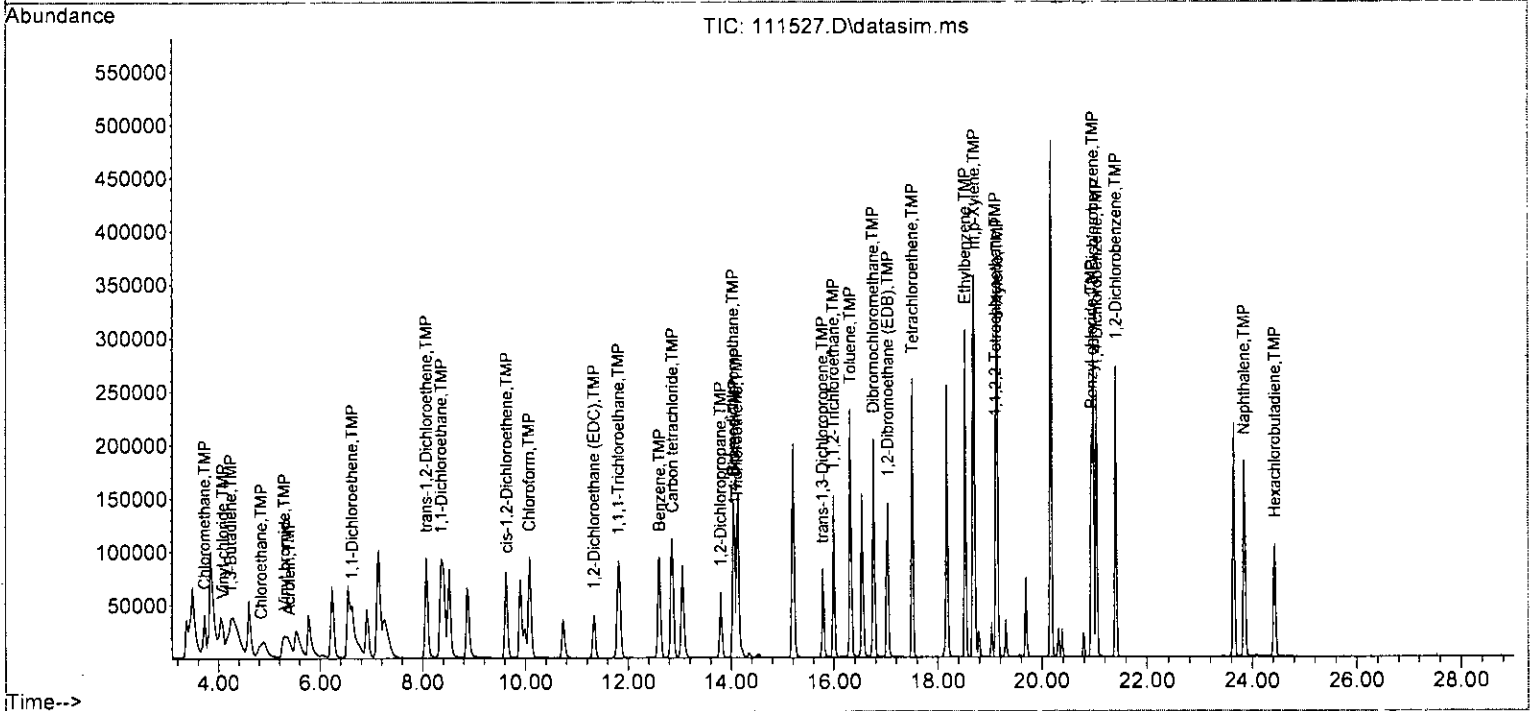
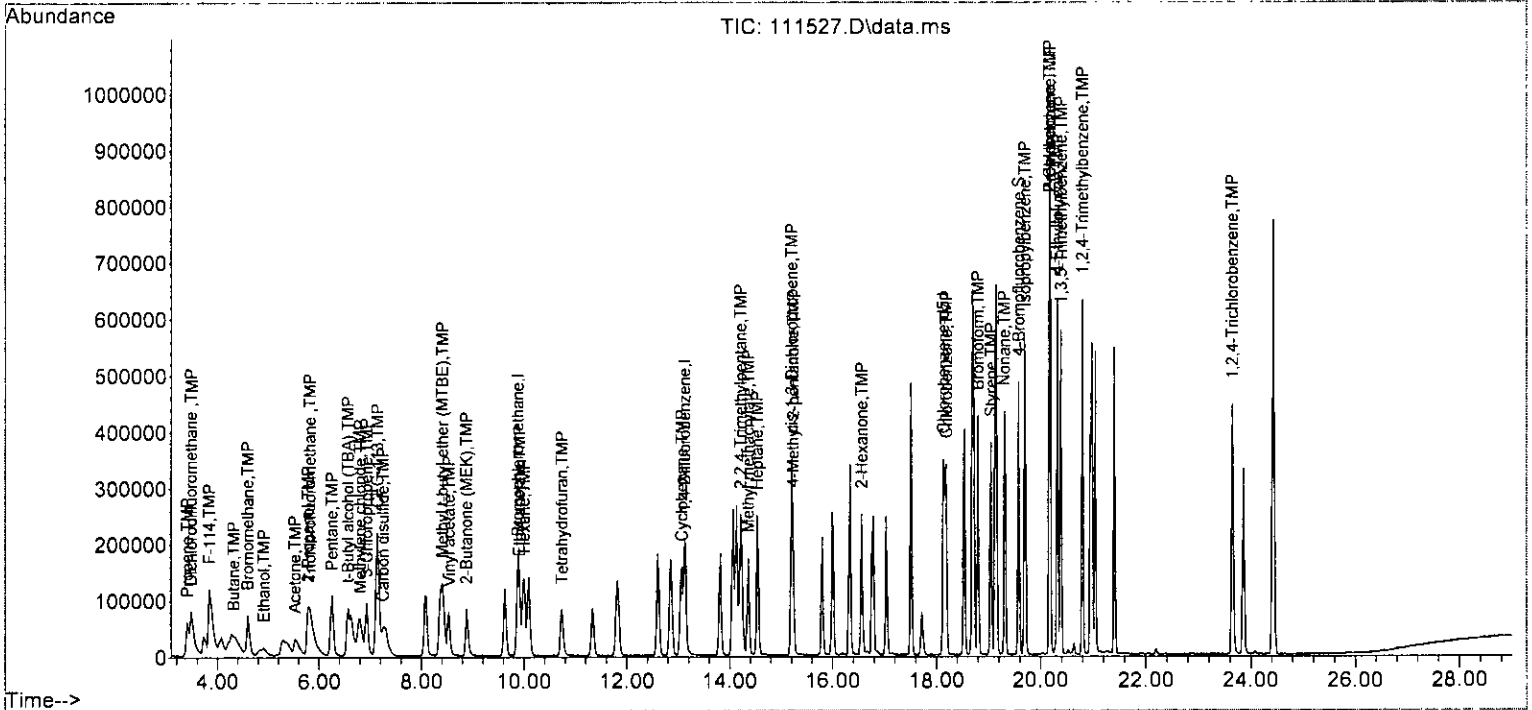
Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	59845	9.410	ppbv	100
42) 2,2,4-Trimethylpentane	14.21	57	438752	9.938	ppbv	97
43) Methyl methacrylate	14.36	41	133782	9.981	ppbv	99
44) Heptane	14.53	43	187312	10.222	ppbv	99
45] Bromodichloromethane	14.04	83	227972	9.715	ppbv	98
46] Trichloroethene	14.12	95	141937	8.664	ppbv	79
47) cis-1,3-Dichloropropene	15.20	75	170395	10.304	ppbv	97
48) 4-Methyl-2-pentanone	15.23	100	13009	10.643	ppbv	98
49] trans-1,3-Dichloropropene	15.78	75	160242	10.302	ppbv	85
50] Toluene	16.31	92	186659	9.558	ppbv	92
51] 1,1,2-Trichloroethane	16.00	83	132436	9.943	ppbv	89
52) 2-Hexanone	16.56	43	247060	10.570	ppbv	96
53] Tetrachloroethene	17.52	164	122486	9.054	ppbv	94
54] Dibromochloromethane	16.76	129	231346	9.730	ppbv	99
55] 1,2-Dibromoethane (EDB)	17.04	107	196013	9.896	ppbv	99
57) Chlorobenzene	18.19	112	255317	9.357	ppbv	99
58] Ethylbenzene	18.53	91	426962	9.898	ppbv	95
59] 1,1,2,2-Tetrachloroethane	19.11	83	304544	9.870	ppbv	91
60) Nonane	19.30	43	268093	11.029	ppbv	99
61) Isopropylbenzene	19.70	105	451414	10.164	ppbv	99
62) 2-Chlorotoluene	20.17	126	112000	10.086	ppbv	94
63) Propylbenzene	20.17	91	884876	10.845	ppbv	99
64) 4-Ethyltoluene	20.32	105	433350	10.851	ppbv	100
65] m,p-Xylene	18.70	106	313361	19.964	ppbv	93
66] o-Xylene	19.15	106	151434	9.937	ppbv	96
67) Styrene	19.05	104	225490	11.109	ppbv	98
68) Bromoform	18.80	173	246216	9.659	ppbv	100
70] Benzyl chloride	20.95	91	321804	10.225	ppbv	100
71) 1,3,5-Trimethylbenzene	20.39	105	389136	10.828	ppbv	99
72) 1,2,4-Trimethylbenzene	20.80	105	369703	10.011	ppbv	100
73] 1,3-Dichlorobenzene	20.98	146	264406	10.542	ppbv	98
74] 1,4-Dichlorobenzene	21.05	146	250616	10.679	ppbv	97
75] 1,2-Dichlorobenzene	21.41	146	262786	10.351	ppbv	93
76) 1,2,4-Trichlorobenzene	23.64	180	220084	10.392	ppbv	99
77] Naphthalene	23.84	128	389489	10.305	ppbv	99
78] Hexachlorobutadiene	24.44	225	247274	9.551	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	10.000	10.097	-1.0	100	0.00
3 TMP Dichlorodifluoromethane	10.000	10.006	-0.1	100	0.00
4 TMP Chloromethane	10.000	9.259	7.4	100	0.00
5 TMP F-114	10.000	9.417	5.8	102	-0.04
6 TMP Vinyl chloride	10.000	9.301	7.0	100	0.00
7 TMP 1,3-Butadiene	10.000	9.543	4.6	100	-0.04
8 TMP Butane	10.000	10.059	-0.6	100	0.00
9 TMP Bromomethane	10.000	9.276	7.2	100	0.00
10 TMP Chloroethane	10.000	9.932	0.7	101	0.00
11 TMP Vinyl bromide	10.000	9.705	2.9	100	-0.02
12 TMP Ethanol	10.000	8.413	15.9	100	-0.04
13 TMP Acrolein	10.000	9.059	9.4	100	-0.02
14 TMP Pentane	10.000	9.918	0.8	100	0.00
15 TMP Trichlorofluoromethane	10.000	9.590	4.1	99	-0.02
16 TMP Acetone	10.000	8.903	11.0	100	-0.04
17 TMP 2-Propanol	10.000	10.202	-2.0	99	0.00
18 TMP 1,1-Dichloroethane	10.000	9.010	9.9	100	0.00
19 TMP trans-1,2-Dichloroethene	10.000	9.371	6.3	100	-0.03
20 TMP Methylene chloride	10.000	9.358	6.4	100	0.00
21 TMP t-Butyl alcohol (TBA)	10.000	10.330	-3.3	100	0.00
22 TMP 3-Chloropropene	10.000	10.380	-3.8	100	0.00
23 TMP CFC-113	10.000	9.836	1.6	100	0.00
24 TMP Carbon disulfide	10.000	10.044	-0.4	100	-0.03
25 TMP Methyl t-butyl ether (MTBE)	10.000	10.225	-2.2	100	-0.03
26 TMP Vinyl acetate	10.000	10.937	-9.4	100	0.00
27 TMP 1,1-Dichloroethane	10.000	9.507	4.9	100	0.00
28 TMP cis-1,2-Dichloroethene	10.000	9.400	6.0	100	0.00
29 TMP Hexane	10.000	10.352	-3.5	100	0.00
30 TMP Chloroform	10.000	10.013	-0.1	100	-0.02
31 TMP Ethyl acetate	10.000	10.441	-4.4	100	0.00
32 TMP Tetrahydrofuran	10.000	11.012	-10.1	100	0.00
33 TMP 2-Butanone (MEK)	10.000	9.988	0.1	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	10.000	9.996	0.0	100	0.00
35 TMP 1,1,1-Trichloroethane	10.000	9.873	1.3	100	-0.01
36 TMP Carbon tetrachloride	10.000	9.777	2.2	100	0.00
37 TMP Benzene	10.000	10.048	-0.5	100	0.00
38 TMP Cyclohexane	10.000	9.988	0.1	100	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	-0.02
40 TMP 1,2-Dichloropropane	10.000	9.142	8.6	100	0.00
41 TMP 1,4-Dioxane	10.000	9.410	5.9	100	-0.02
42 TMP 2,2,4-Trimethylpentane	10.000	9.938	0.6	100	-0.03
43 TMP Methyl methacrylate	10.000	9.981	0.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	10.000	10.222	-2.2	100	-0.02
45 TMP Bromodichloromethane	10.000	9.715	2.9	100	0.00
46 TMP Trichloroethene	10.000	8.664	13.4	100	-0.02
47 TMP cis-1,3-Dichloropropene	10.000	10.304	-3.0	100	0.00
48 TMP 4-Methyl-2-pentanone	10.000	10.643	-6.4	100	0.00
49 TMP trans-1,3-Dichloropropene	10.000	10.302	-3.0	100	0.00
50 TMP Toluene	10.000	9.558	4.4	100	0.00
51 TMP 1,1,2-Trichloroethane	10.000	9.943	0.6	100	0.00
52 TMP 2-Hexanone	10.000	10.570	-5.7	100	0.00
53 TMP Tetrachloroethene	10.000	9.054	9.5	100	0.00
54 TMP Dibromochloromethane	10.000	9.730	2.7	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	10.000	9.896	1.0	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	10.000	9.357	6.4	100	0.00
58 TMP Ethylbenzene	10.000	9.898	1.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	10.000	9.870	1.3	100	-0.02
60 TMP Nonane	10.000	11.029	-10.3	100	0.00
61 TMP Isopropylbenzene	10.000	10.164	-1.6	100	0.00
62 TMP 2-Chlorotoluene	10.000	10.086	-0.9	100	0.00
63 TMP Propylbenzene	10.000	10.845	-8.5	100	-0.01
64 TMP 4-Ethyltoluene	10.000	10.851	-8.5	100	0.00
65 TMP m,p-Xylene	20.000	19.964	0.2	100	0.00
66 TMP o-Xylene	10.000	9.937	0.6	100	0.00
67 TMP Styrene	10.000	11.109	-11.1	100	0.00
68 TMP Bromoform	10.000	9.659	3.4	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.730	-7.3	100	0.00
70 TMP Benzyl chloride	10.000	10.225	-2.2	101	0.00
71 TMP 1,3,5-Trimethylbenzene	10.000	10.828	-8.3	100	0.00
72 TMP 1,2,4-Trimethylbenzene	10.000	10.011	-0.1	100	0.00
73 TMP 1,3-Dichlorobenzene	10.000	10.542	-5.4	100	0.00
74 TMP 1,4-Dichlorobenzene	10.000	10.679	-6.8	100	0.00
75 TMP 1,2-Dichlorobenzene	10.000	10.351	-3.5	100	0.00
76 TMP 1,2,4-Trichlorobenzene	10.000	10.392	-3.9	100	0.00
77 TMP Naphthalene	10.000	10.305	-3.0	100	0.00
78 TMP Hexachlorobutadiene	10.000	9.551	4.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Oev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.354	13.0	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.125	-0.0	100	0.00
4 TMP Chloromethane	1.882	1.743	7.4	100	0.00
5 TMP F-114	4.217	3.971	5.8	102	-0.04
6 TMP Vinyl chloride	1.851	1.721	7.0	100	0.00
7 TMP 1,3-Butadiene	1.216	1.160	4.6	100	-0.04
8 TMP Butane	2.183	2.196	-0.6	100	0.00
9 TMP Bromomethane	1.847	1.713	7.3	100	0.00
10 TMP Chloroethane	0.655	0.650	0.8	101	0.00
11 TMP Vinyl bromide	1.609	1.562	2.9	100	-0.02
12 TMP Ethanol	0.663	0.558	15.8	100	-0.04
13 TMP Acrolein	0.729	0.660	9.5	100	-0.02
14 TMP Pentane	2.461	2.440	0.9	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.585	4.1	99	-0.02
16 TMP Acetone	0.710	0.633	10.8	100	-0.04
17 TMP 2-Propanol	3.096	3.159	-2.0	99	0.00
18 TMP 1,1-Dichloroethane	1.645	1.482	9.9	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.497	6.3	100	-0.03
20 TMP Methylene chloride	1.479	1.384	6.4	100	0.00
21 TMP t-Butyl alcohol (T8A)	2.668	2.756	-3.3	100	0.00
22 TMP 3-Chloropropene	2.056	2.134	-3.8	100	0.00
23 TMP CFC-113	3.469	3.412	1.6	100	0.00
24 TMP Carbon disulfide	5.167	5.190	-0.4	100	-0.03
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.511	-2.2	100	-0.03
26 TMP Vinyl acetate	3.801	4.157	-9.4	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.178	4.9	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.589	6.0	100	0.00
29 TMP Hexane	2.068	2.141	-3.5	100	0.00
30 TMP Chloroform	4.060	3.655	10.0	100	-0.02
31 TMP Ethyl acetate	3.789	3.956	-4.4	100	0.00
32 TMP Tetrahydrofuran	1.809	1.993	-10.2	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.618	0.2	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.461	8.4	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.301	1.3	100	-0.01
36 TMP Carbon tetrachloride	3.523	3.444	2.2	100	0.00
37 TMP Benzene	5.688	5.043	11.3	100	0.00
38 TMP Cyclohexane	1.367	1.365	0.1	100	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	-0.02
40 TMP 1,2-Dichloropropane	0.541	0.495	8.5	100	0.00
41 TMP 1,4-Dioxane	0.230	0.217	5.7	100	-0.02
42 TMP 2,2,4-Trimethylpentane	1.598	1.588	0.6	100	-0.03
43 TMP Methyl methacrylate	0.485	0.484	0.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.678	-2.3	100	-0.02
45 TMP Bromodichloromethane	0.850	0.825	2.9	100	0.00
46 TMP Trichloroethene	0.593	0.514	13.3	100	-0.02
47 TMP cis-1,3-Dichloropropene	0.599	0.617	-3.0	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.047	-6.8	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.580	-3.0	100	0.00
50 TMP Toluene	0.707	0.676	4.4	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.479	12.9	100	0.00
52 TMP 2-Hexanone	0.846	0.894	-5.7	100	0.00
53 TMP Tetrachloroethene	0.490	0.443	9.6	100	0.00
54 TMP Dibromochloromethane	0.861	0.838	2.7	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.710	13.8	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.030	6.4	100	0.00
58 TMP Ethylbenzene	1.968	1.723	12.4	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.229	11.8	100	-0.02
60 TMP Nonane	0.981	1.082	-10.3	100	0.00
61 TMP Isopropylbenzene	1.792	1.821	-1.6	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.452	-0.9	100	0.00
63 TMP Propylbenzene	3.292	3.570	-8.4	100	-0.01
64 TMP 4-Ethyltoluene	1.611	1.748	-8.5	100	0.00
65 TMP m,p-Xylene	0.633	0.632	0.2	100	0.00
66 TMP o-Xylene	0.615	0.611	0.7	100	0.00
67 TMP Styrene	0.819	0.910	-11.1	100	0.00
68 TMP Bromoform	1.028	0.993	3.4	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.744	-7.4	100	0.00
70 TMP Benzyl chloride	0.987	1.298	-31.5#	101	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.570	-8.3	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.492	-19.6	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.067	-5.4	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.011	-6.8	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.060	-3.5	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.888	-41.9#	100	0.00
77 TMP Naphthalene	1.132	1.571	-38.8#	100	0.00
78 TMP Hexachlorobutadiene	1.045	0.998	4.5	100	0.00

(#) = Out of Range

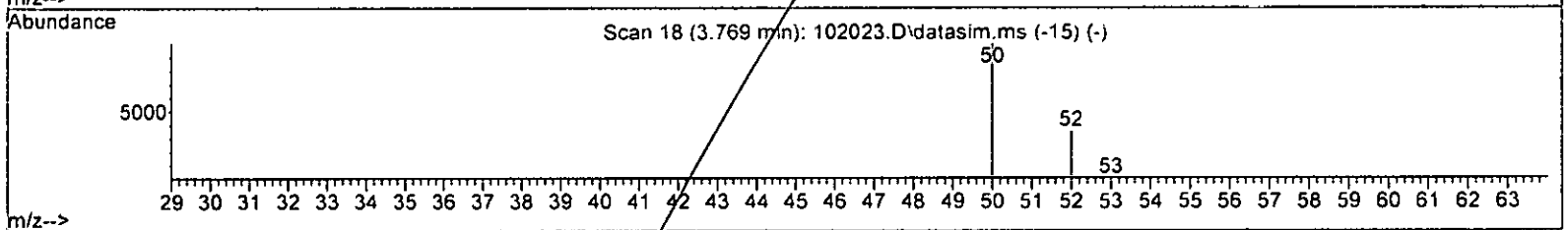
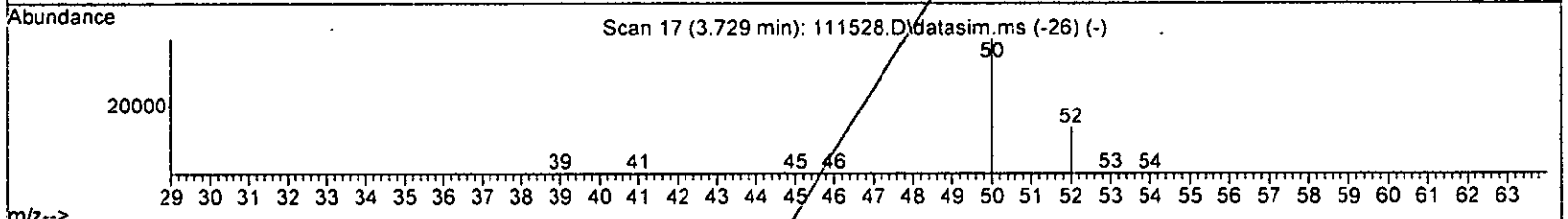
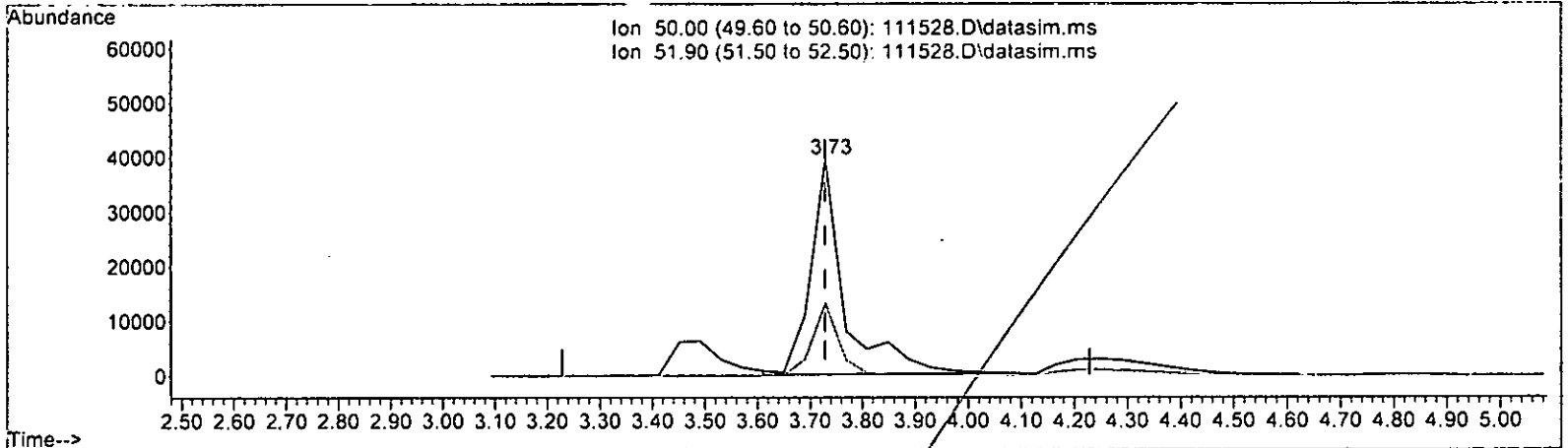
SPCC's out = 0 CCC's out = 0



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111528.D\data.ms

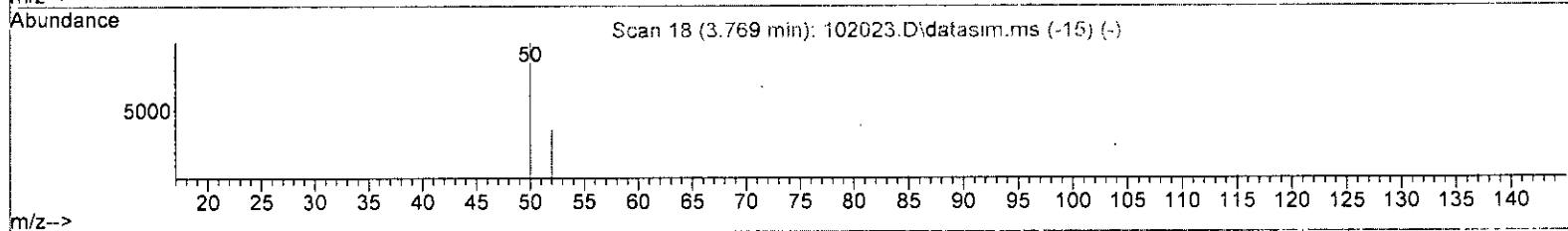
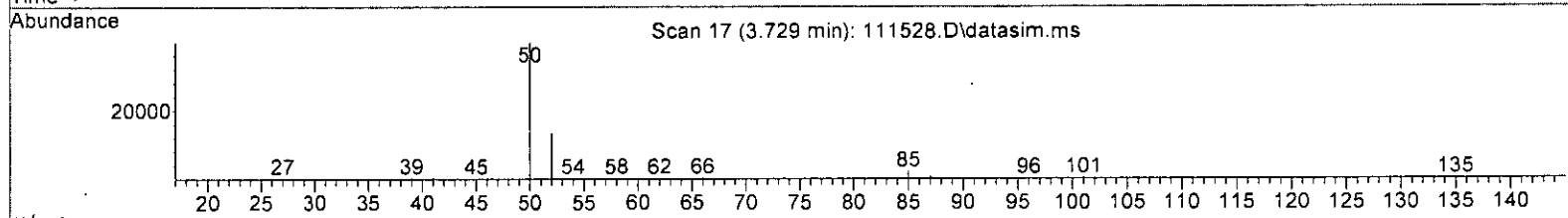
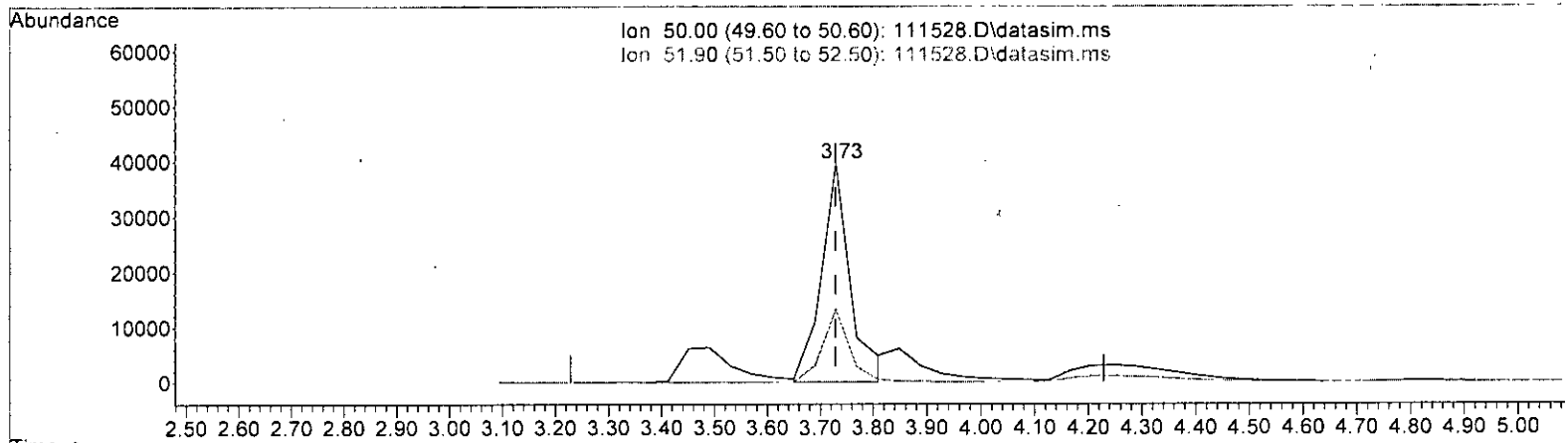
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	15.822	ppbv
response	175722	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	33.72
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111528.D\data.ms

(4) Chloromethane (TMP)			
3.729min (+ 0.000)	13.595 ppbv m		
response	150990		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	33.53	
0.00	0.00	0.00	
0.00	0.00	0.00	

*bat*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	58999	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.12	114	278765	10.000	ppbv	-0.02
56) Chlorobenzene-d5	18.13	117	247324	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	193296	11.278	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	112.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	119081	14.708	ppbv	97
3) Dichlorodifluoromethane	3.49	85	359082	14.763	ppbv	99
4] Chloromethane	3.73	50	150990m	13.595	ppbv	
5) F-114	3.84	85	351475	14.127	ppbv	99
6] Vinyl chloride	4.05	62	148970	13.644	ppbv	99
7] 1,3-Butadiene	4.25	54	102296	14.259	ppbv #	96
8) Butane	4.32	43	191657	14.882	ppbv	99
9) Bromomethane	4.60	94	146095	13.406	ppbv	97
10] Chloroethane	4.84	64	55733	14.433	ppbv	98
11] Vinyl bromide	5.30	106	149440	15.739	ppbv	99
12) Ethanol	4.92	45	58514	14.955	ppbv	100
13] Acrolein	5.40	56	58433	13.588	ppbv	99
14) Pentane	6.25	43	206303	14.211	ppbv	99
15) Trichlorofluoromethane	5.82	101	397811	14.102	ppbv	100
16) Acetone	5.53	58	54612	13.029	ppbv	92
17) 2-Propanol	5.78	45	269801	14.771	ppbv	100
18] 1,1-Dichloroethene	6.63	96	127304	13.115	ppbv	97
19] trans-1,2-Dichloroethene	8.07	96	128944	13.678	ppbv	94
20) Methylene chloride	6.80	84	120892	13.856	ppbv	95
21) t-Butyl alcohol (TBA)	6.57	59	244526	15.535	ppbv #	79
22) 3-Chloropropene	6.94	41	188878	15.570	ppbv	98
23) CFC-113	7.15	101	289544	14.145	ppbv	98
24) Carbon disulfide	7.25	76	453954	14.892	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	300742	14.845	ppbv	98
26) Vinyl acetate	8.54	43	368654	16.439	ppbv	99
27] 1,1-Dichloroethane	8.36	63	272963	13.842	ppbv	100
28] cis-1,2-Dichloroethene	9.62	96	136919	13.732	ppbv	86
29) Hexane	9.99	57	190651	15.625	ppbv	96
30] Chloroform	10.08	83	311416	14.974	ppbv	98
31) Ethyl acetate	9.92	43	349665	15.643	ppbv	99
32) Tetrahydrofuran	10.73	42	175763	16.464	ppbv	92
33) 2-Butanone (MEK)	8.88	72	54432	14.907	ppbv #	89
34] 1,2-Dichloroethane (EDC)	11.34	62	211556	14.954	ppbv	99
35] 1,1,1-Trichloroethane	11.81	97	282594	14.326	ppbv	98
36] Carbon tetrachloride	12.86	117	295682	14.227	ppbv	96
37] Benzene	12.61	78	434213	14.934	ppbv	94
38) Cyclohexane	13.07	84	118410	14.682	ppbv	98
40] 1,2-Dichloropropane	13.80	63	201812	13.371	ppbv	98

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

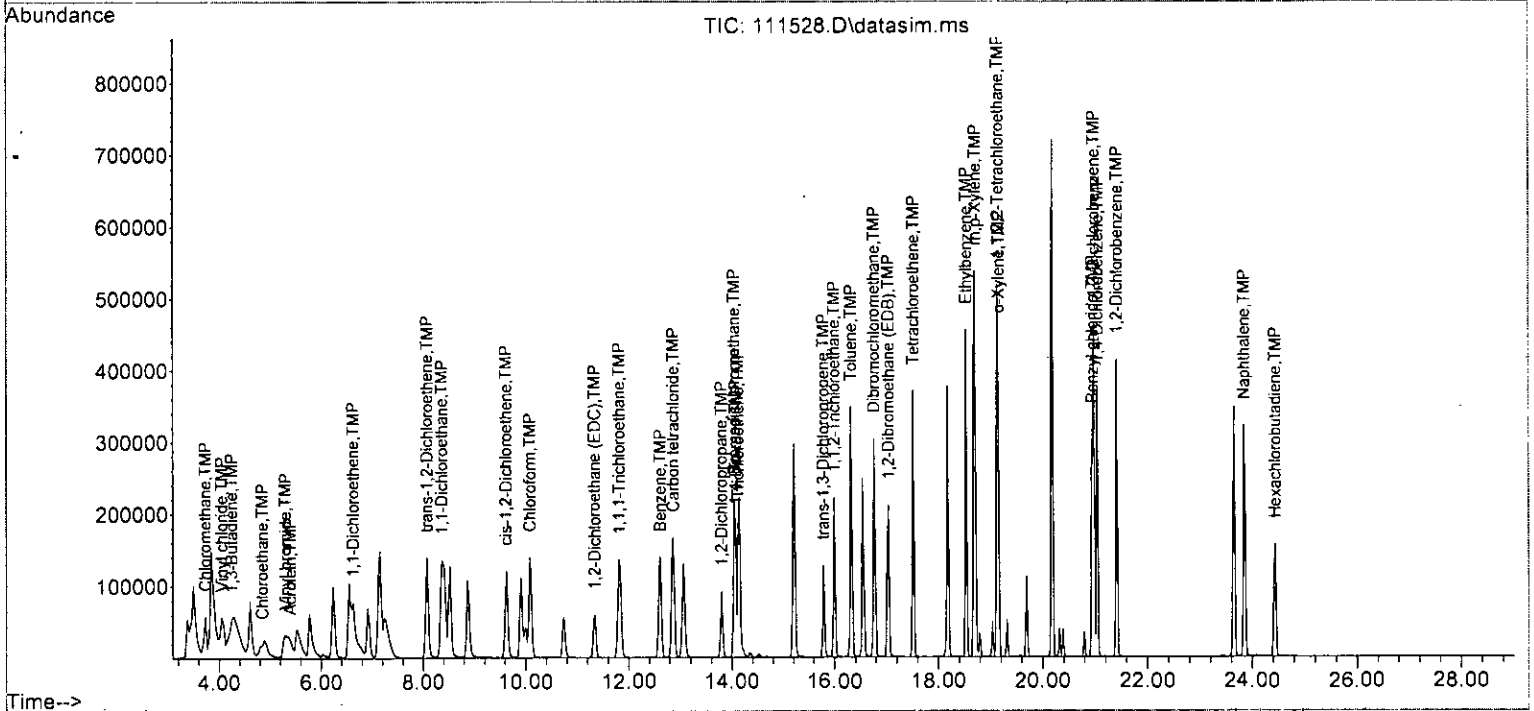
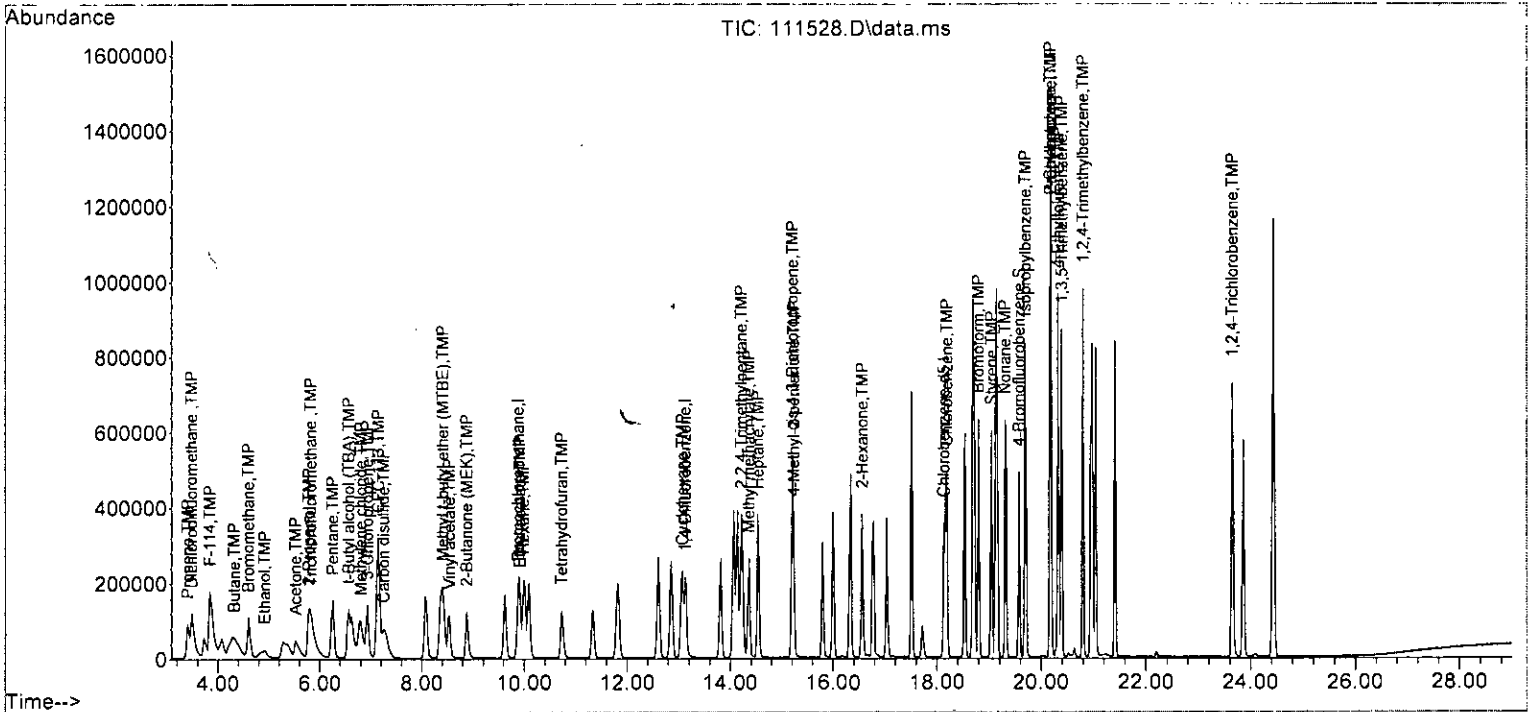
Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	89988	14.019	ppbv	96
42) 2,2,4-Trimethylpentane	14.21	57	656524	14.734	ppbv	97
43) Methyl methacrylate	14.36	41	203939	15.076	ppbv	100
44) Heptane	14.53	43	282353	15.267	ppbv	99
45] Bromodichloromethane	14.04	83	332802	14.052	ppbv	97
46] Trichloroethene	14.12	95	209252	12.656	ppbv	78
47) cis-1,3-Dichloropropene	15.20	75	252568	15.133	ppbv	98
48) 4-Methyl-2-pentanone	15.23	100	18663	15.128	ppbv #	94
49] trans-1,3-Dichloropropene	15.78	75	241740	15.399	ppbv	85
50] Toluene	16.31	92	277732	14.091	ppbv	90
51] 1,1,2-Trichloroethane	16.00	83	192766	15.049	ppbv	87
52) 2-Hexanone	16.56	43	365792	15.506	ppbv	97
53] Tetrachloroethene	17.52	164	178050	13.040	ppbv	95
54] Dibromochloromethane	16.76	129	341786	14.243	ppbv	99
55] 1,2-Dibromoethane (EDB)	17.04	107	287988	15.020	ppbv	98
57) Chlorobenzene	18.19	112	374572	13.758	ppbv	99
58] Ethylbenzene	18.53	91	636030	15.041	ppbv	95
59] 1,1,2,2-Tetrachloroethane	19.13	83	443331	15.117	ppbv	91
60) Nonane	19.30	43	405196	16.706	ppbv	99
61) Isopropylbenzene	19.70	105	665976	15.027	ppbv	100
62) 2-Chlorotoluene	20.17	126	166677	15.042	ppbv	94
63) Propylbenzene	20.17	91	1313928	16.138	ppbv	99
64) 4-Ethyltoluene	20.32	105	657585	16.501	ppbv	100
65] m,p-Xylene	18.70	106	467929	29.877	ppbv	93
66] o-Xylene	19.15	106	224701	14.777	ppbv	96
67) Styrene	19.05	104	342860	16.927	ppbv	97
68) Bromoform	18.80	173	367235	14.438	ppbv	100
70] Benzyl chloride	20.95	91	494550	14.939	ppbv	99
71) 1,3,5-Trimethylbenzene	20.39	105	583256	16.264	ppbv	99
72) 1,2,4-Trimethylbenzene	20.80	105	579681	14.930	ppbv	100
73] 1,3-Dichlorobenzene	20.98	146	394442	15.761	ppbv	97
74] 1,4-Dichlorobenzene	21.05	146	379907	16.223	ppbv	97
75] 1,2-Dichlorobenzene	21.41	146	393119	15.518	ppbv	92
76) 1,2,4-Trichlorobenzene	23.64	180	352765	14.658	ppbv	99
77] Naphthalene	23.84	128	680136	14.479	ppbv	99
78] Hexachlorobutadiene	24.44	225	370230	14.331	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 5S method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	15.000	14.708	1.9	100	0.00
3 TMP Dichlorodifluoromethane	15.000	14.763	1.6	100	0.00
4 TMP Chloromethane	15.000	13.595	9.4	100	0.00
5 TMP F-114	15.000	14.127	5.8	103	-0.04
6 TMP Vinyl chloride	15.000	13.644	9.0	100	-0.04
7 TMP 1,3-Butadiene	15.000	14.259	4.9	100	-0.04
8 TMP Butane	15.000	14.882	0.8	101	0.00
9 TMP Bromomethane	15.000	13.406	10.6	100	0.00
10 TMP Chloroethane	15.000	14.433	3.8	101	0.00
11 TMP Vinyl bromide	15.000	15.739	-4.9	110	-0.02
12 TMP Ethanol	15.000	14.955	0.3	100	-0.04
13 TMP Acrolein	15.000	13.588	9.4	100	-0.02
14 TMP Pentane	15.000	14.211	5.3	100	0.00
15 TMP Trichlorofluoromethane	15.000	14.102	6.0	99	-0.02
16 TMP Acetone	15.000	13.029	13.1	100	-0.04
17 TMP 2-Propanol	15.000	14.771	1.5	98	0.00
18 TMP 1,1-Dichloroethene	15.000	13.115	12.6	100	0.00
19 TMP trans-1,2-Dichloroethene	15.000	13.678	8.8	100	-0.03
20 TMP Methylene chloride	15.000	13.856	7.6	100	0.00
21 TMP t-Butyl alcohol (TBA)	15.000	15.535	-3.6	100	0.00
22 TMP 3-Chloropropene	15.000	15.570	-3.8	100	0.00
23 TMP CFC-113	15.000	14.145	5.7	100	0.00
24 TMP Carbon disulfide	15.000	14.892	0.7	100	-0.03
25 TMP Methyl t-butyl ether (MTBE)	15.000	14.845	1.0	100	-0.03
26 TMP Vinyl acetate	15.000	16.439	-9.6	100	0.00
27 TMP 1,1-Dichloroethane	15.000	13.842	7.7	100	0.00
28 TMP cis-1,2-Dichloroethene	15.000	13.732	8.5	100	-0.02
29 TMP Hexane	15.000	15.625	-4.2	100	-0.02
30 TMP Chloroform	15.000	14.974	0.2	100	-0.02
31 TMP Ethyl acetate	15.000	15.643	-4.3	100	0.00
32 TMP Tetrahydrofuran	15.000	16.464	-9.8	100	-0.02
33 TMP 2-Butanone (MEK)	15.000	14.907	0.6	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	15.000	14.954	0.3	100	0.00
35 TMP 1,1,1-Trichloroethane	15.000	14.326	4.5	100	-0.01
36 TMP Carbon tetrachloride	15.000	14.227	5.2	100	0.00
37 TMP Benzene	15.000	14.934	0.4	100	0.00
38 TMP Cyclohexane	15.000	14.682	2.1	100	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	-0.02
40 TMP 1,2-Dichloropropane	15.000	13.371	10.9	100	0.00
41 TMP 1,4-Dioxane	15.000	14.019	6.5	100	-0.02
42 TMP 2,2,4-Trimethylpentane	15.000	14.734	1.8	100	-0.03
43 TMP Methyl methacrylate	15.000	15.076	-0.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	15.000	15.267	-1.8	100	-0.02
45 TMP Bromodichloromethane	15.000	14.052	6.3	100	0.00
46 TMP Trichloroethene	15.000	12.656	15.6	100	-0.02
47 TMP cis-1,3-Dichloropropene	15.000	15.133	-0.9	100	0.00
48 TMP 4-Methyl-2-pentanone	15.000	15.128	-0.9	100	0.00
49 TMP trans-1,3-Dichloropropene	15.000	15.399	-2.7	100	0.00
50 TMP Toluene	15.000	14.091	6.1	100	0.00
51 TMP 1,1,2-Trichloroethane	15.000	15.049	-0.3	100	0.00
52 TMP 2-Hexanone	15.000	15.506	-3.4	100	0.00
53 TMP Tetrachloroethene	15.000	13.040	13.1	100	0.00
54 TMP Dibromochloromethane	15.000	14.243	5.0	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	15.000	15.020	-0.1	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	15.000	13.758	8.3	100	0.00
58 TMP Ethylbenzene	15.000	15.041	-0.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	15.000	15.117	-0.8	100	0.00
60 TMP Nonane	15.000	16.706	-11.4	100	0.00
61 TMP Isopropylbenzene	15.000	15.027	-0.2	100	0.00
62 TMP 2-Chlorotoluene	15.000	15.042	-0.3	100	0.00
63 TMP Propylbenzene	15.000	16.138	-7.6	100	-0.01
64 TMP 4-Ethyltoluene	15.000	16.501	-10.0	100	0.00
65 TMP m,p-Xylene	30.000	29.877	0.4	100	0.00
66 TMP o-Xylene	15.000	14.777	1.5	100	0.00
67 TMP Styrene	15.000	16.927	-12.8	100	0.00
68 TMP Bromoform	15.000	14.438	3.7	100	0.00
69 S 4-Bromofluorobenzene	10.000	11.278	-12.8	100	0.00
70 TMP Benzyl chloride	15.000	14.939	0.4	102	0.00
71 TMP 1,3,5-Trimethylbenzene	15.000	16.264	-8.4	100	0.00
72 TMP 1,2,4-Trimethylbenzene	15.000	14.930	0.5	100	0.00
73 TMP 1,3-Dichlorobenzene	15.000	15.761	-5.1	100	0.00
74 TMP 1,4-Dichlorobenzene	15.000	16.223	-8.2	100	0.00
75 TMP 1,2-Dichlorobenzene	15.000	15.518	-3.5	100	0.00
76 TMP 1,2,4-Trichlorobenzene	15.000	14.658	2.3	100	0.00
77 TMP Naphthalene	15.000	14.479	3.5	100	0.00
78 TMP Hexachlorobutadiene	15.000	14.331	4.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

## Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.346	13.5	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.057	1.6	100	0.00
4 TMP Chloromethane	1.882	1.706	9.4	100	0.00
5 TMP F-114	4.217	3.972	5.8	103	-0.04
6 TMP Vinyl chloride	1.851	1.683	9.1	100	-0.04
7 TMP 1,3-Butadiene	1.216	1.156	4.9	100	-0.04
8 TMP Butane	2.183	2.166	0.8	101	0.00
9 TMP Bromomethane	1.847	1.651	10.6	100	0.00
10 TMP Chloroethane	0.655	0.630	3.8	101	0.00
11 TMP Vinyl bromide	1.609	1.689	-5.0	110	-0.02
12 TMP Ethanol	0.663	0.661	0.3	100	-0.04
13 TMP Acrolein	0.729	0.660	9.5	100	-0.02
14 TMP Pentane	2.461	2.331	5.3	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.495	6.0	99	-0.02
16 TMP Acetone	0.710	0.617	13.1	100	-0.04
17 TMP 2-Propanol	3.096	3.049	1.5	98	0.00
18 TMP 1,1-Dichloroethene	1.645	1.438	12.6	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.457	8.8	100	-0.03
20 TMP Methylene chloride	1.479	1.366	7.6	100	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.763	-3.6	100	0.00
22 TMP 3-Chloropropene	2.056	2.134	-3.8	100	0.00
23 TMP CFC-113	3.469	3.272	5.7	100	0.00
24 TMP Carbon disulfide	5.167	5.130	0.7	100	-0.03
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.398	1.0	100	-0.03
26 TMP Vinyl acetate	3.801	4.166	-9.6	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.084	7.7	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.547	8.5	100	-0.02
29 TMP Hexane	2.068	2.154	-4.2	100	-0.02
30 TMP Chloroform	4.060	3.519	13.3	100	-0.02
31 TMP Ethyl acetate	3.789	3.951	-4.3	100	0.00
32 TMP Tetrahydrofuran	1.809	1.986	-9.8	100	-0.02
33 TMP 2-Butanone (MEK)	0.619	0.615	0.6	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.391	11.0	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.193	4.5	100	-0.01
36 TMP Carbon tetrachloride	3.523	3.341	5.2	100	0.00
37 TMP Benzene	5.688	4.906	13.7	100	0.00
38 TMP Cyclohexane	1.367	1.338	2.1	100	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	-0.02
40 TMP 1,2-Dichloropropane	0.541	0.483	10.7	100	0.00
41 TMP 1,4-Dioxane	0.230	0.215	6.5	100	-0.02
42 TMP 2,2,4-Trimethylpentane	1.598	1.570	1.8	100	-0.03
43 TMP Methyl methacrylate	0.485	0.488	-0.6	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TD-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.675	-1.8	100	-0.02
45 TMP Bromodichloromethane	0.850	0.796	6.4	100	0.00
46 TMP Trichloroethene	0.593	0.500	15.7	100	-0.02
47 TMP cis-1,3-Dichloropropene	0.599	0.604	-0.8	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.045	-2.3	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.578	-2.7	100	0.00
50 TMP Toluene	0.707	0.664	6.1	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.461	16.2	100	0.00
52 TMP 2-Hexanone	0.846	0.875	-3.4	100	0.00
53 TMP Tetrachloroethene	0.490	0.426	13.1	100	0.00
54 TMP Dibromochloromethane	0.861	0.817	5.1	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.689	16.4	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.010	8.3	100	0.00
58 TMP Ethylbenzene	1.968	1.714	12.9	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.195	14.3	100	0.00
60 TMP Nonane	0.981	1.092	-11.3	100	0.00
61 TMP Isopropylbenzene	1.792	1.795	-0.2	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.449	-0.2	100	0.00
63 TMP Propylbenzene	3.292	3.542	-7.6	100	-0.01
64 TMP 4-Ethyltoluene	1.611	1.773	-10.1	100	0.00
65 TMP m,p-Xylene	0.633	0.631	0.3	100	0.00
66 TMP o-Xylene	0.615	0.606	1.5	100	0.00
67 TMP Styrene	0.819	0.924	-12.8	100	0.00
68 TMP Bromoform	1.028	0.990	3.7	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.782	-12.8	100	0.00
70 TMP Benzyl chloride	0.987	1.333	-35.1#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.572	-8.4	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.563	-25.3	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.063	-5.0	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.024	-8.1	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.060	-3.5	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.951	-51.9#	100	0.00
77 TMP Naphthalene	1.132	1.833	-61.9#	100	0.00
78 TMP Hexachlorobutadiene	1.045	0.998	4.5	100	0.00

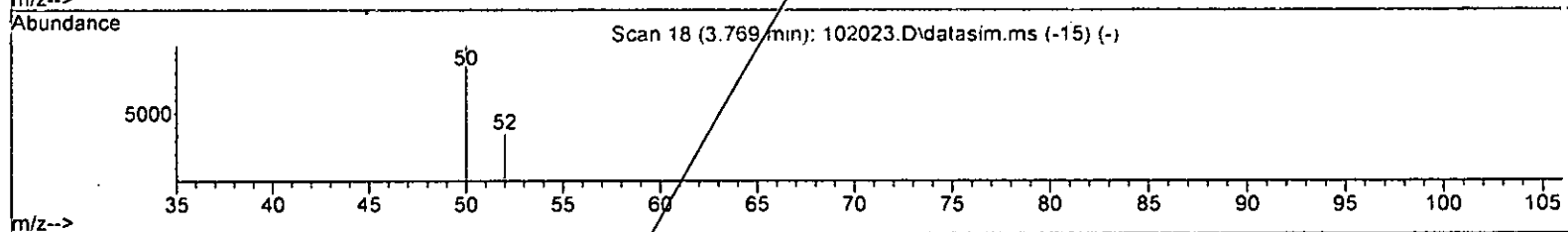
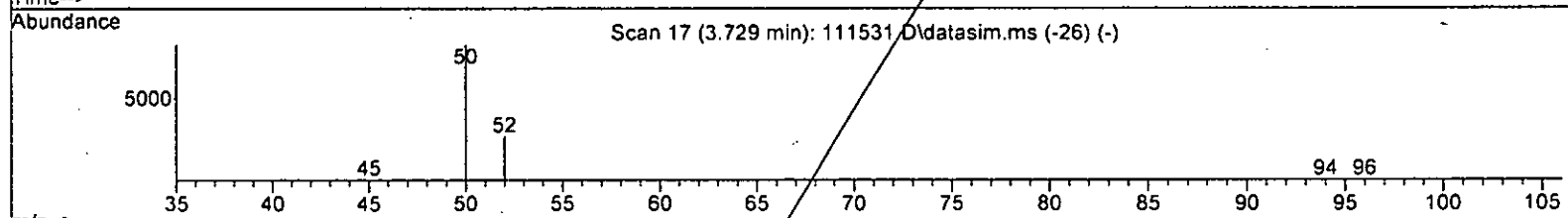
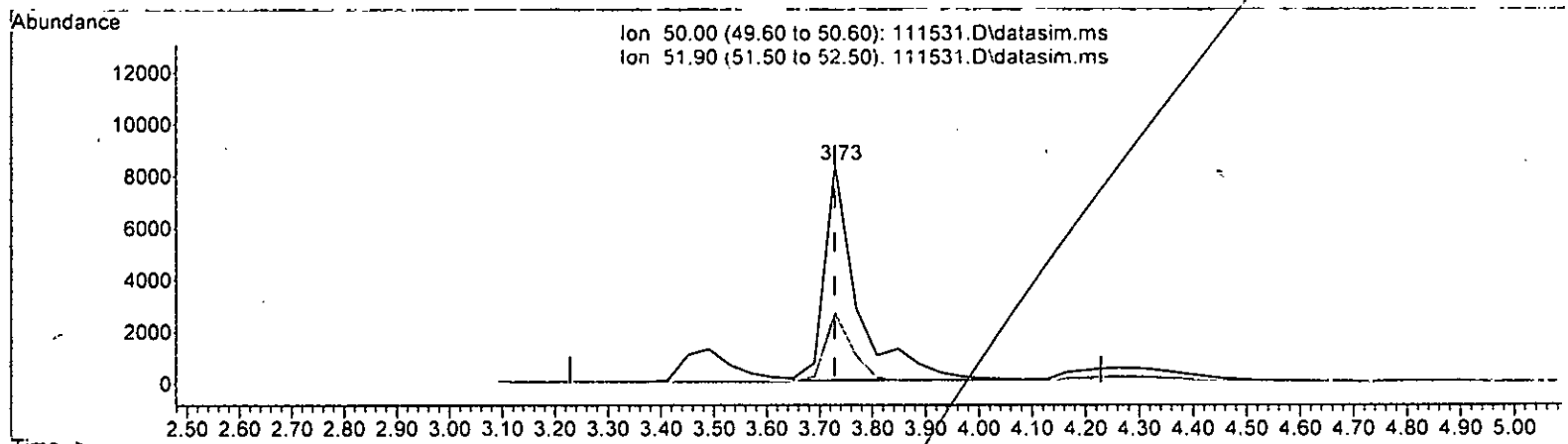
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

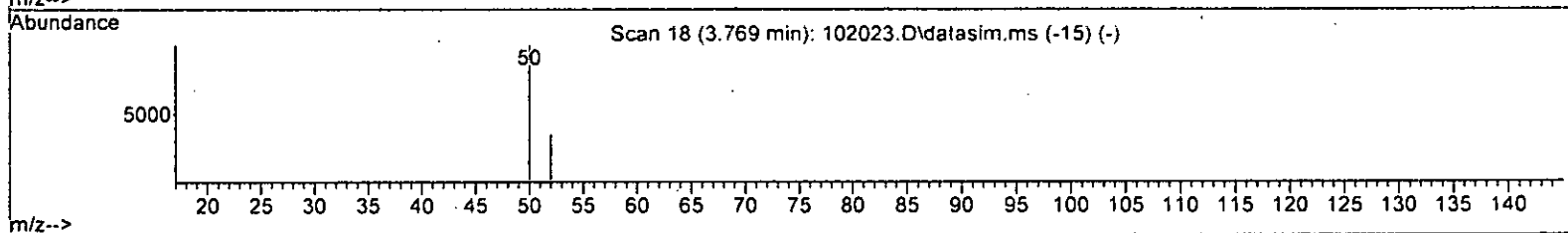
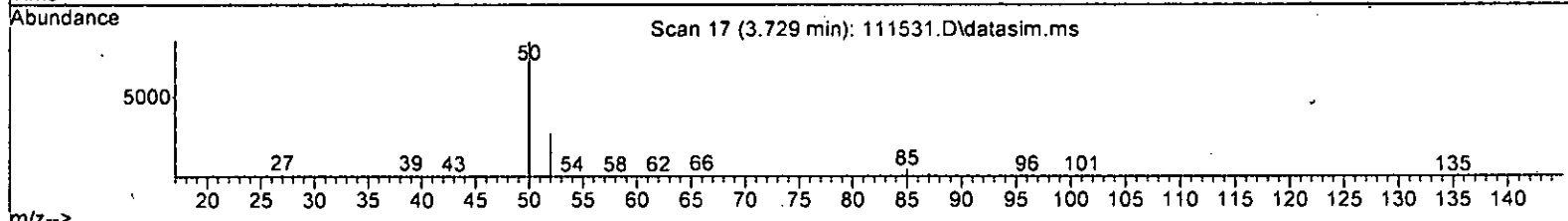
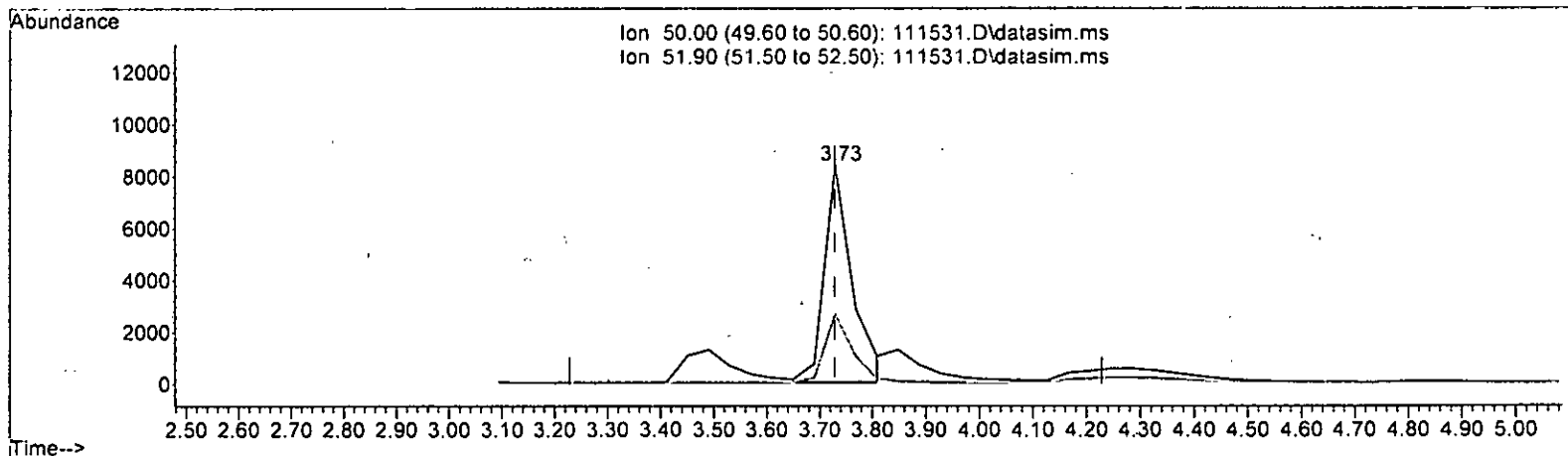
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	3.080 ppbv	
response	35937	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	31.87
0.00	0.00	0.00
0.00	0.00	0.00

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a/b/l

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

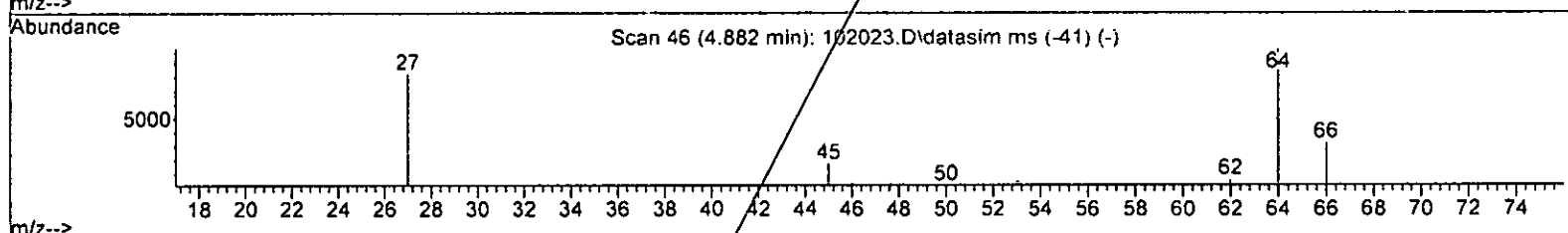
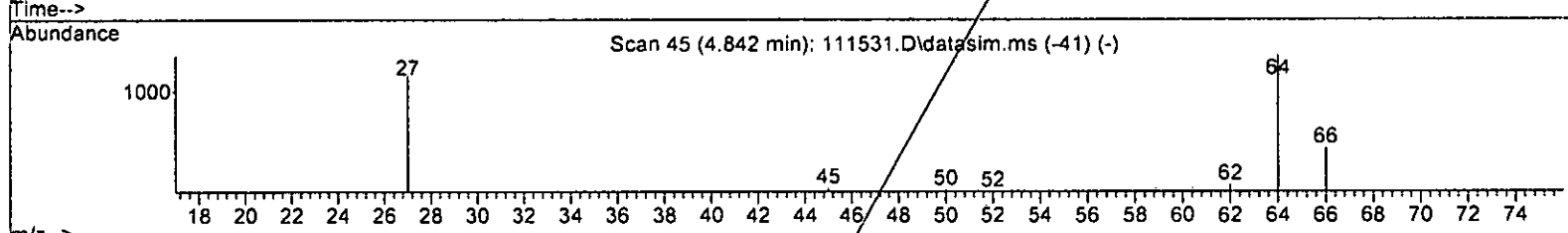
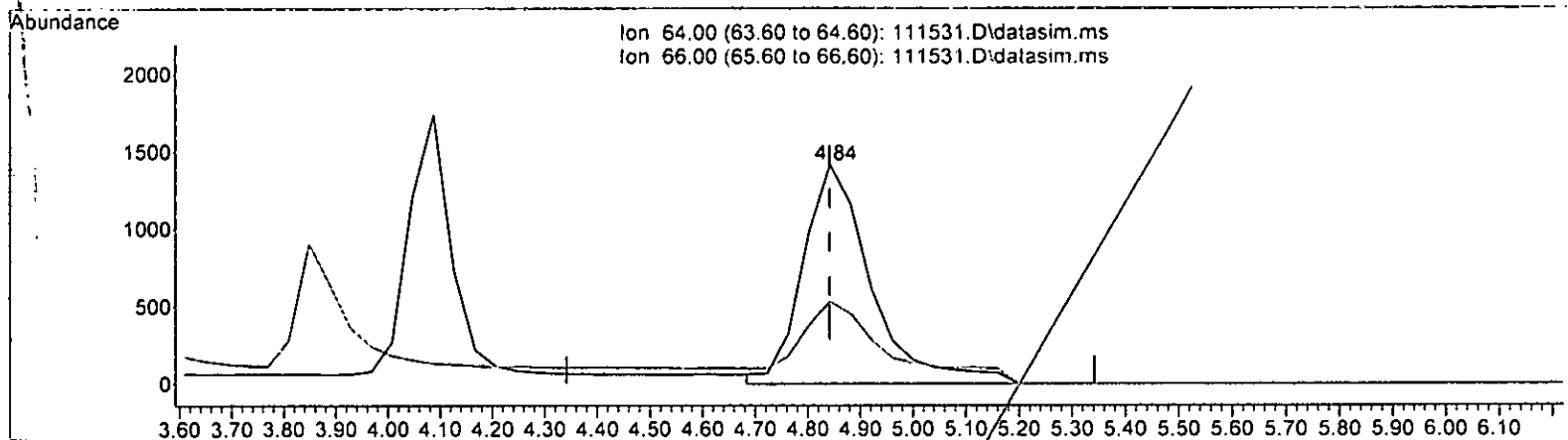
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	2.642 ppbv m	
response	30819	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	32.16
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

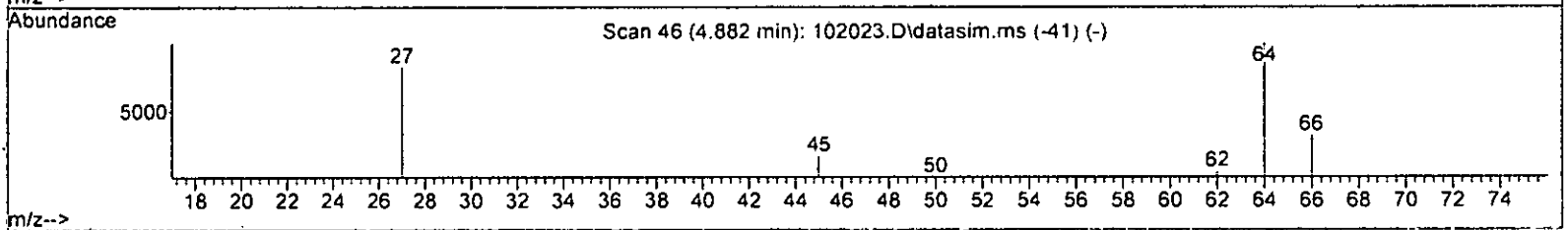
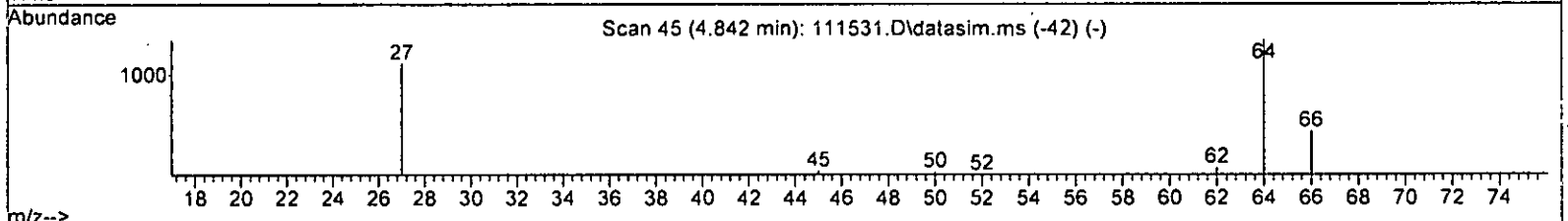
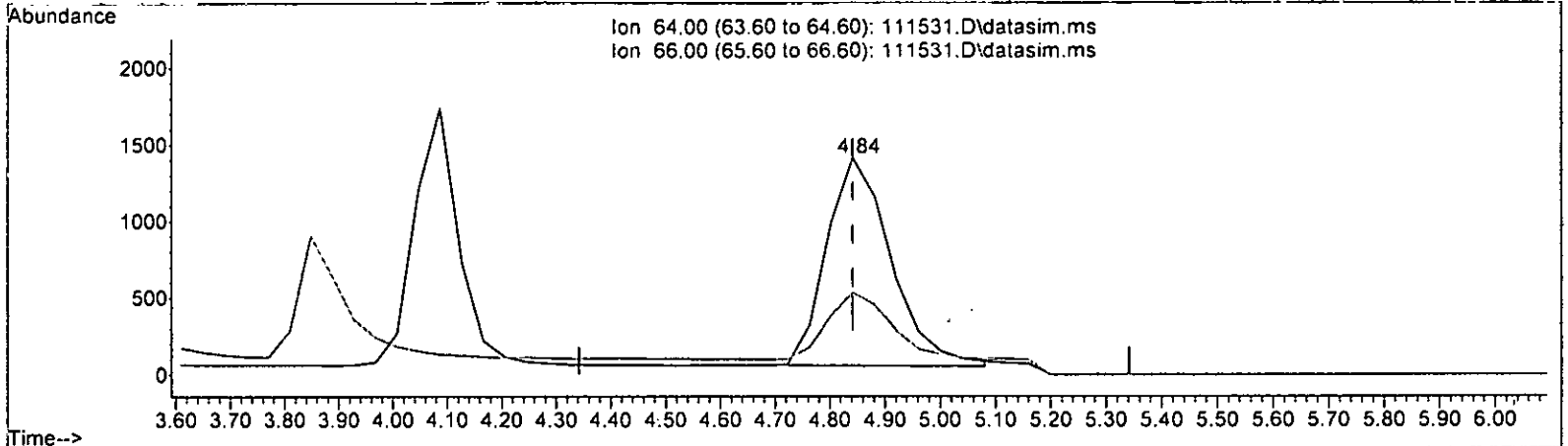
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	3.021 ppbv	
response	12254	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	37.79
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

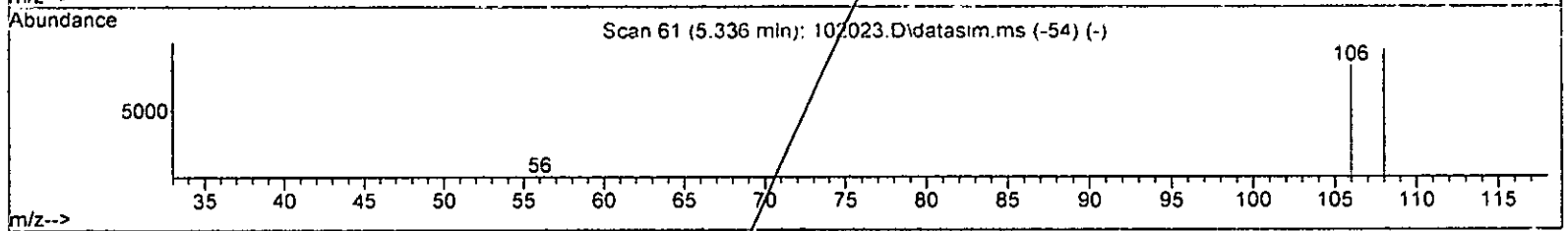
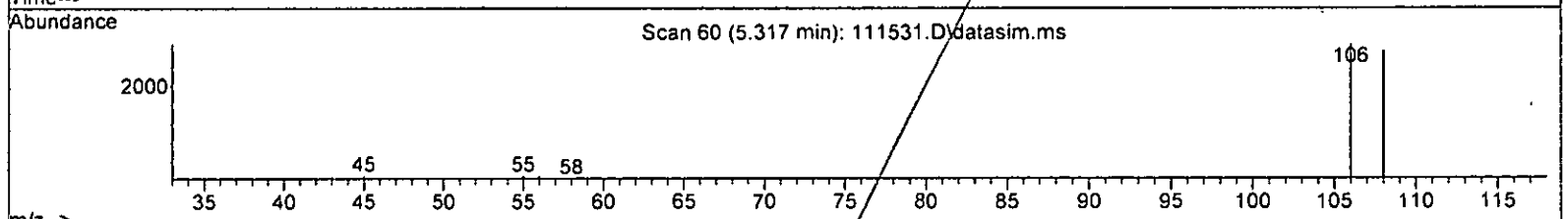
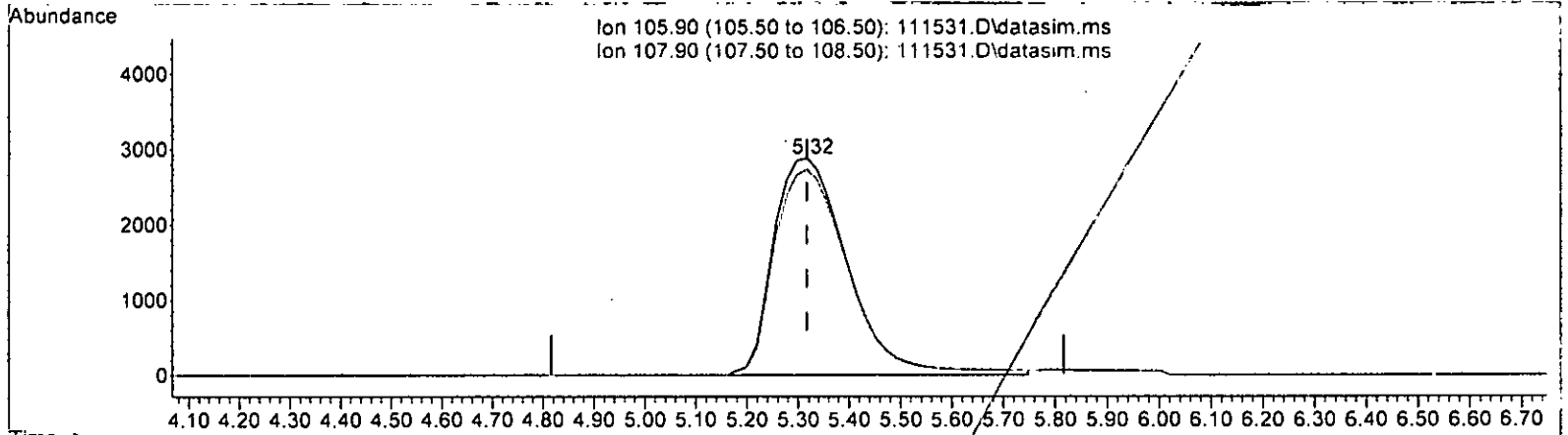
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	2.703 ppbv m	
response	10966	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	37.79
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

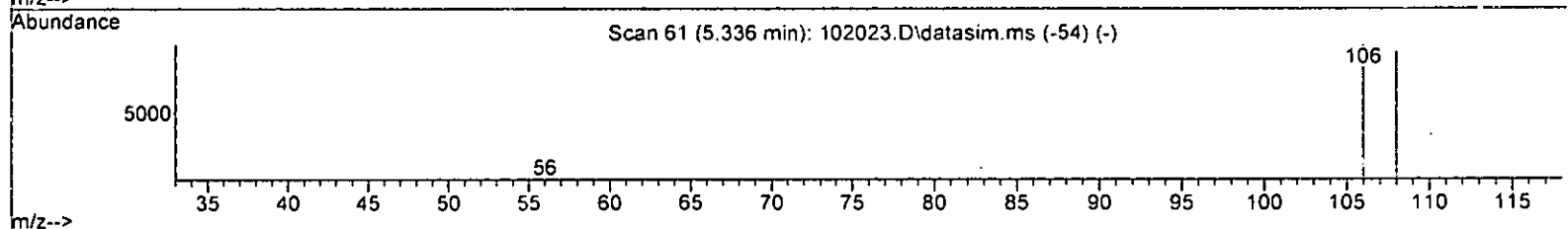
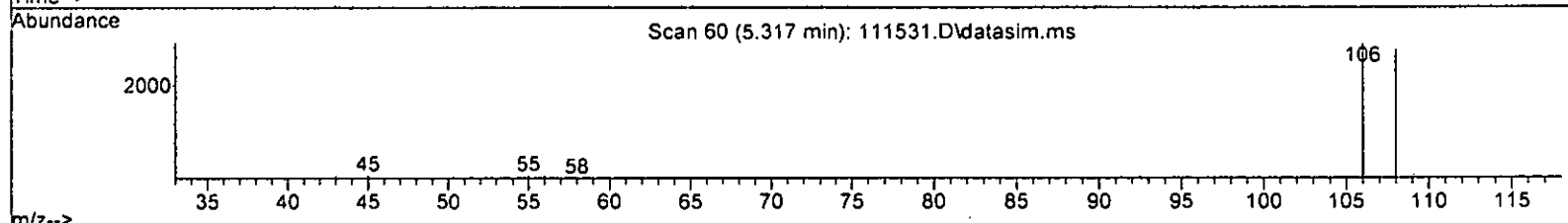
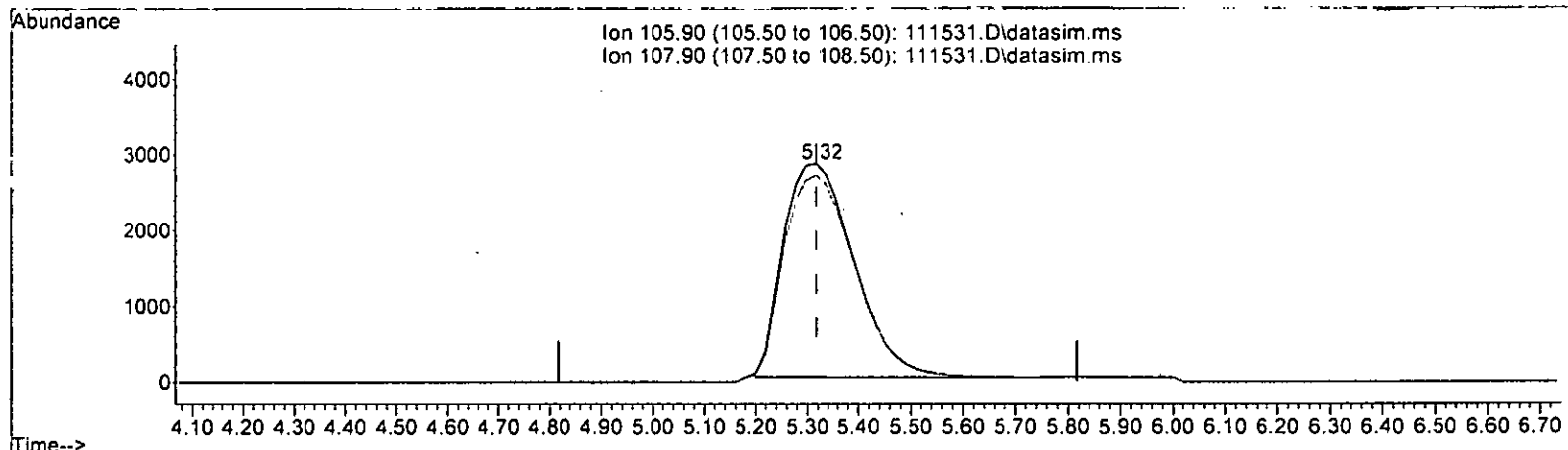
(11) Vinyl bromide (TMP)		
5.317min (+ 0.000)	3.103 ppbv	
response	30951	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	94.65
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115TD15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TD15DC.M



TIC: 111531.D\data.ms

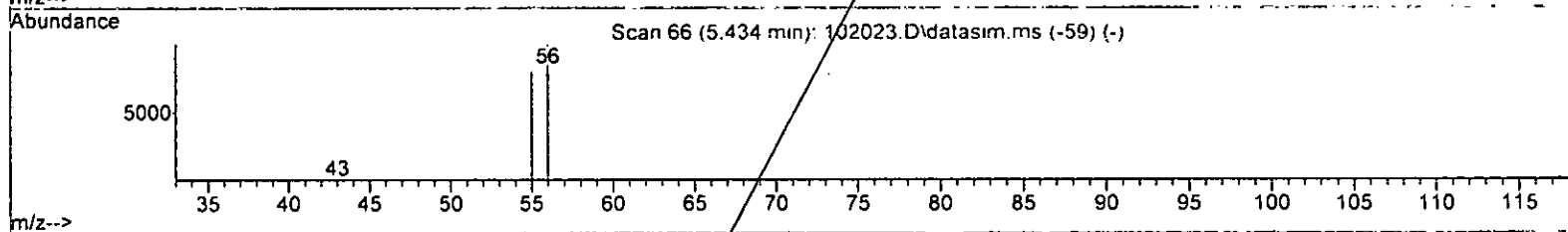
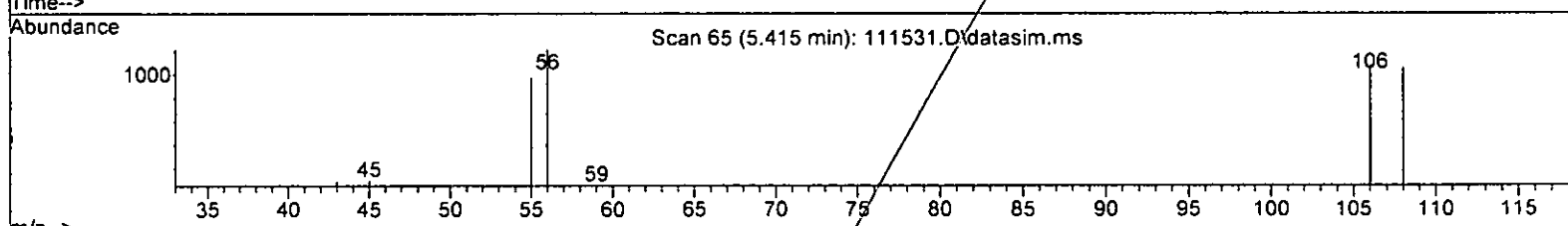
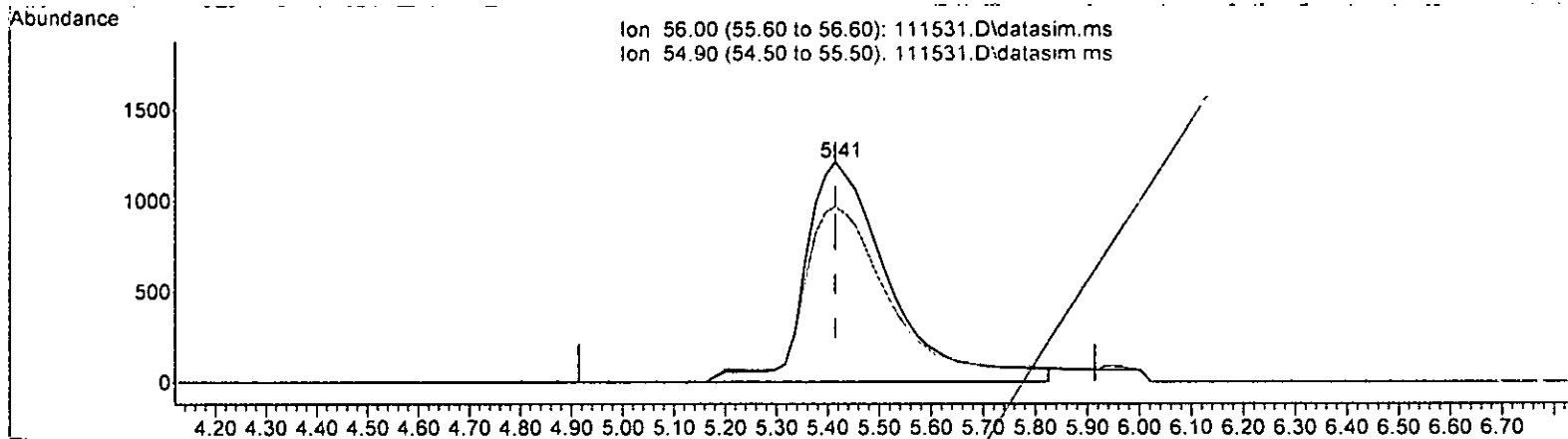
(11) Vinyl bromide (TMP)		
5.317min (+ 0.000) 2.701 ppbv m		
response	26943	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	108.73
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T01Sss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111531.D\data.ms

(13) Acrolein (TMP)		
Time	Response	Concentration
5.415min (-0.000)	14492	3.208 ppbv
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	67.38
0.00	0.00	0.00
0.00	0.00	0.00

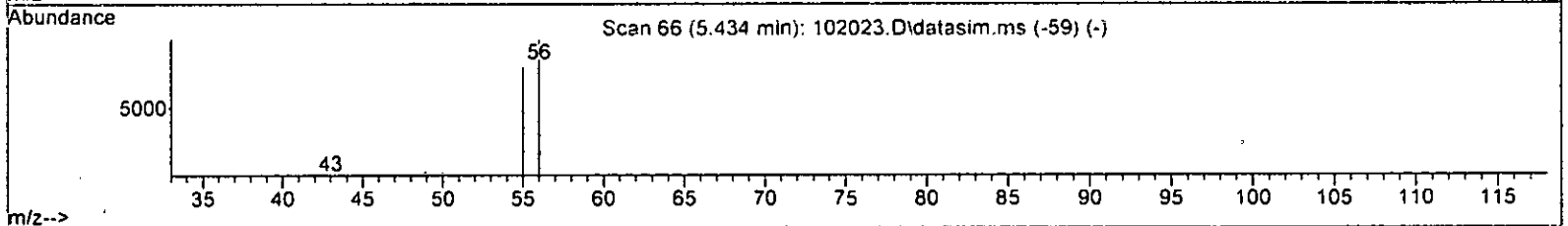
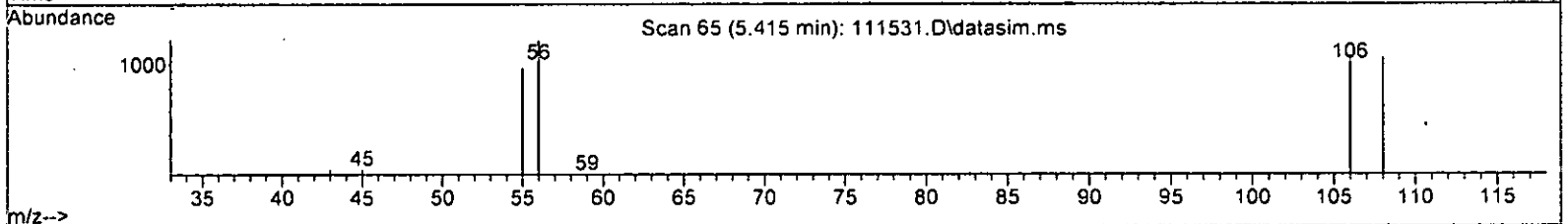
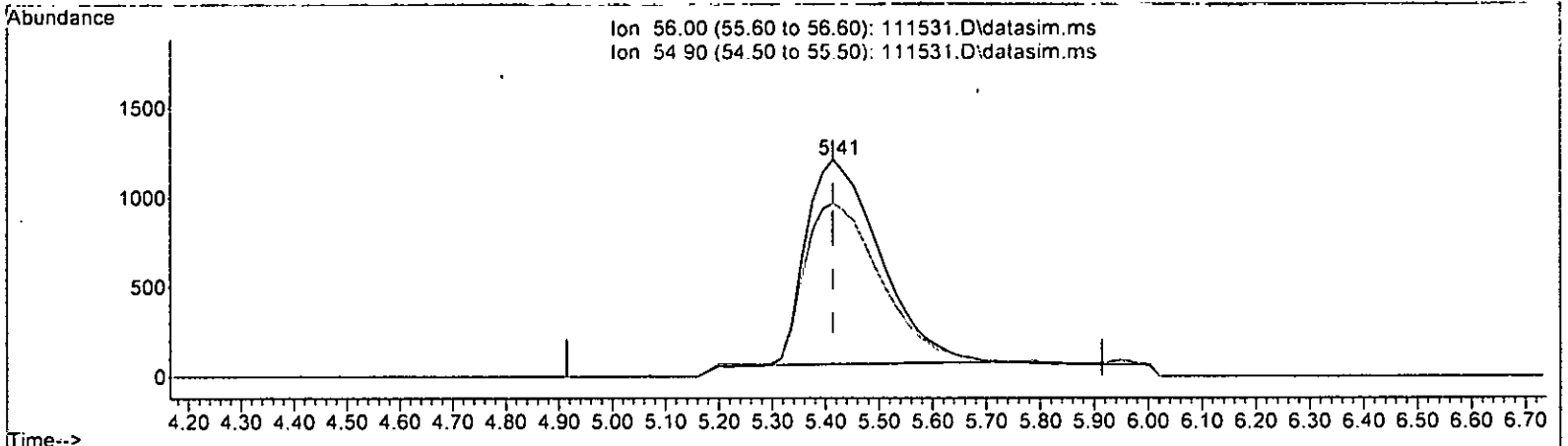
*Handwritten signature*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

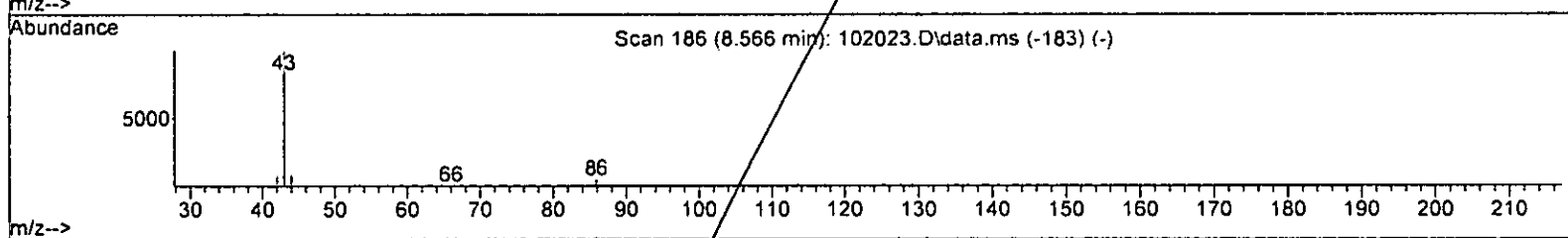
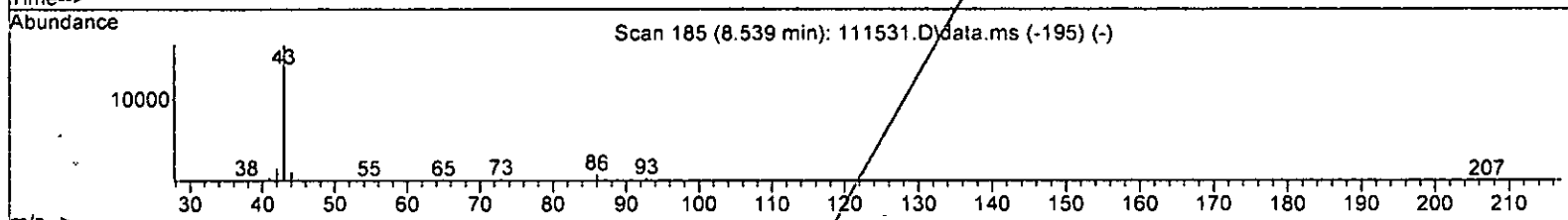
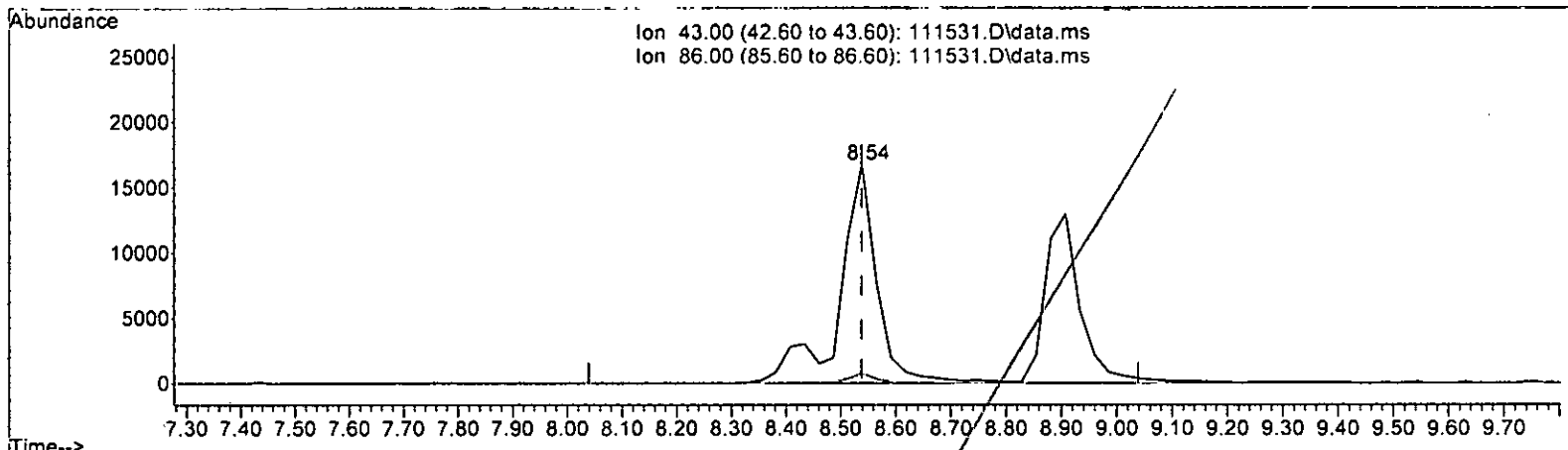
(13) Acrolein (TMP)		
response	Exp%	Act%
5.415min (-0.000) 2.428 ppbv m		
10966		
56.00	100.00	100.00
54.90	81.00	89.05
0.00	0.00	0.00
0.00	0.00	0.00

*W. White*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111531.D\data.ms

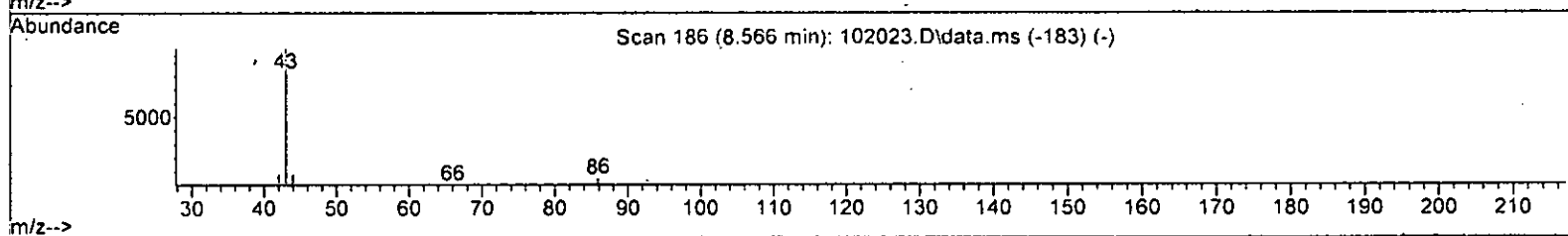
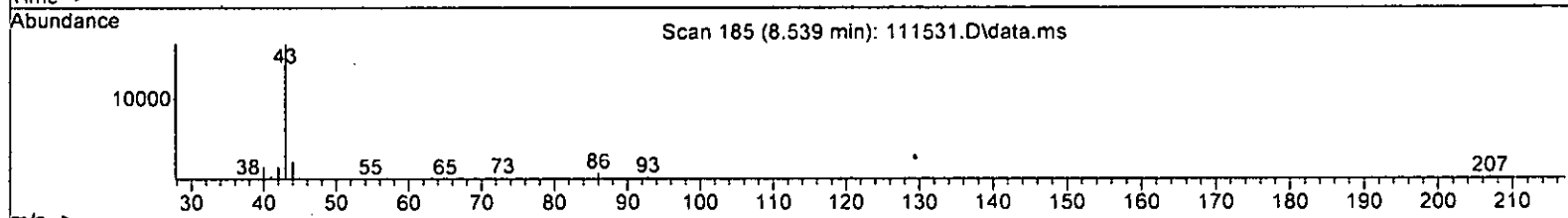
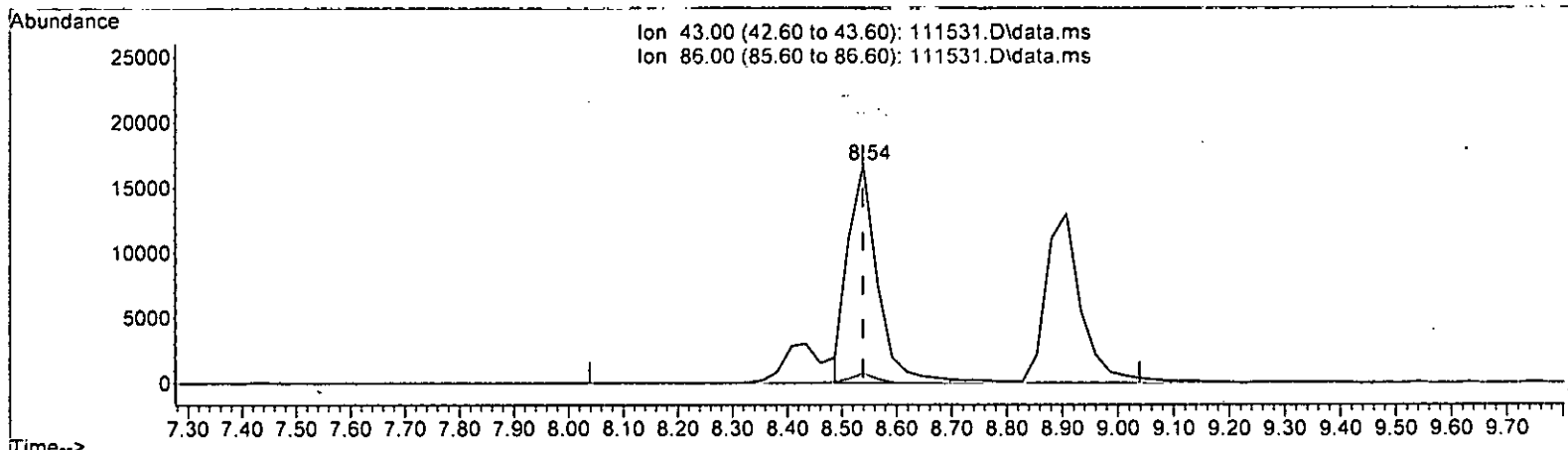
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000)	3.372 ppbv	
response	79442	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	4.44
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

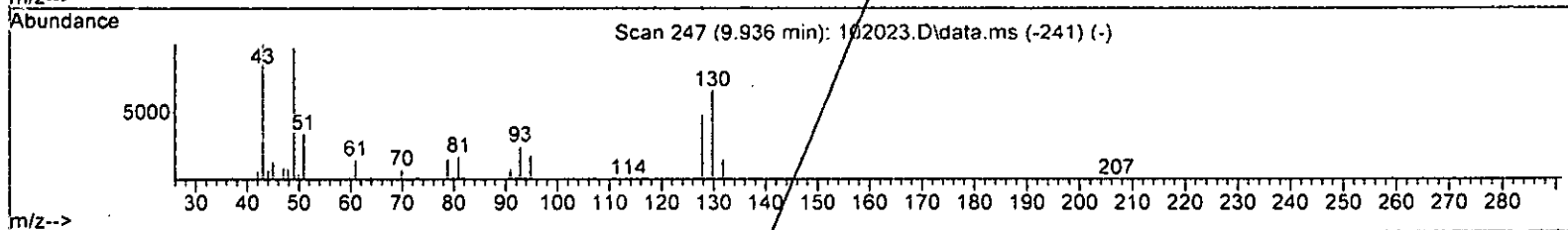
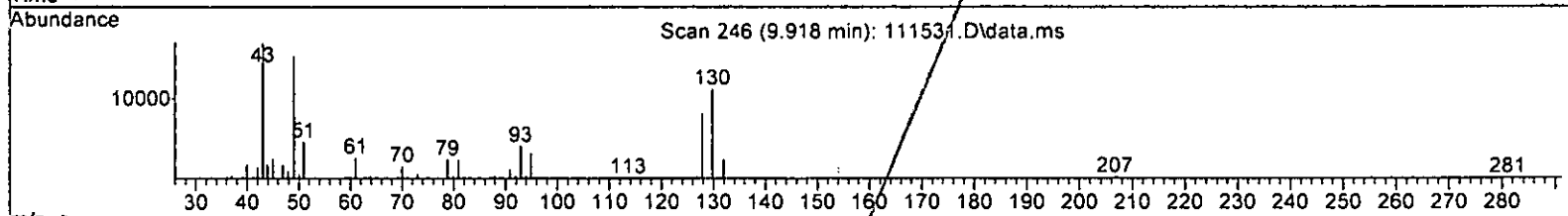
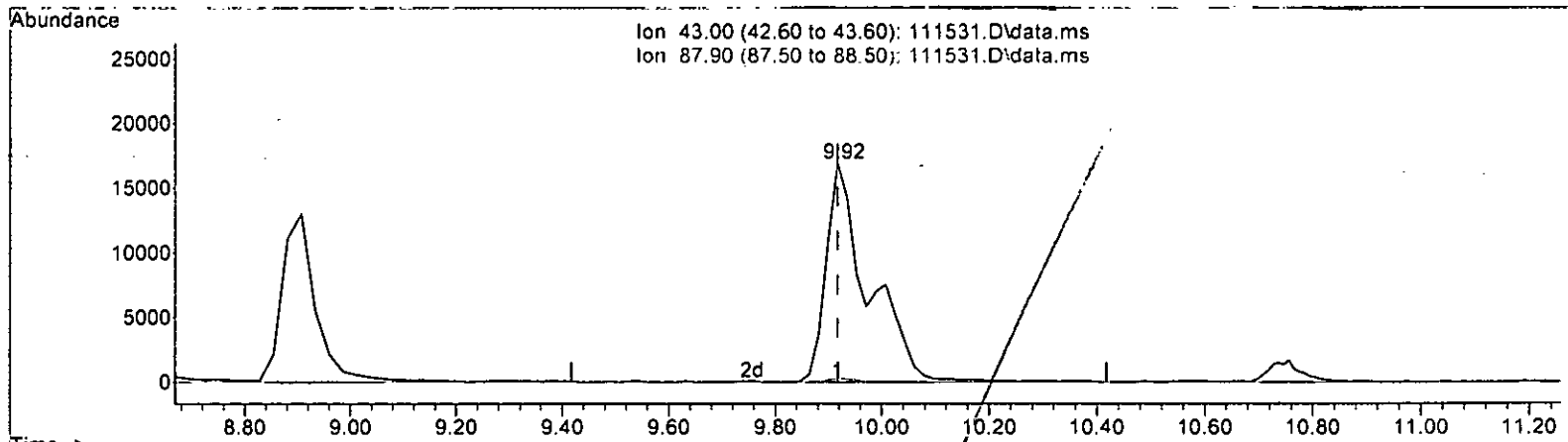
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000)	2.636 ppbv m	
response	62089	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	4.44
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: W/Mark*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

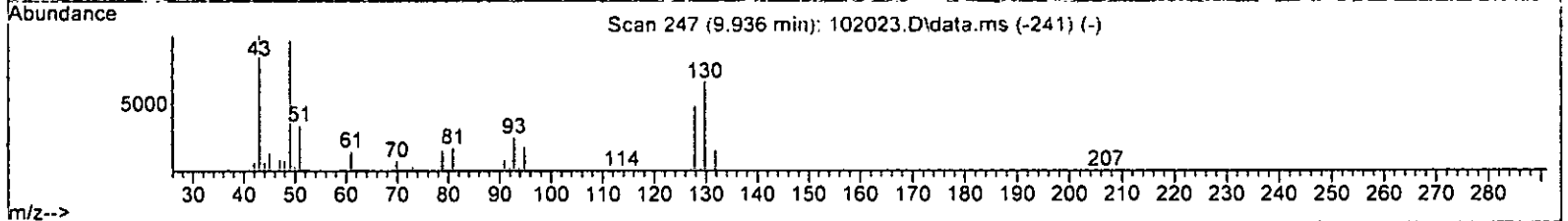
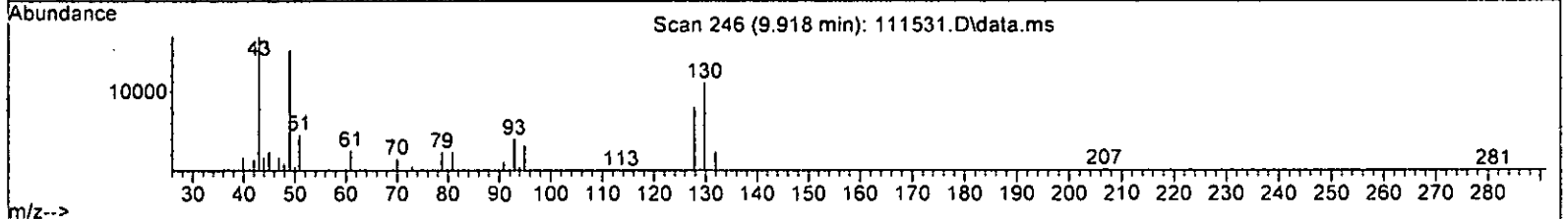
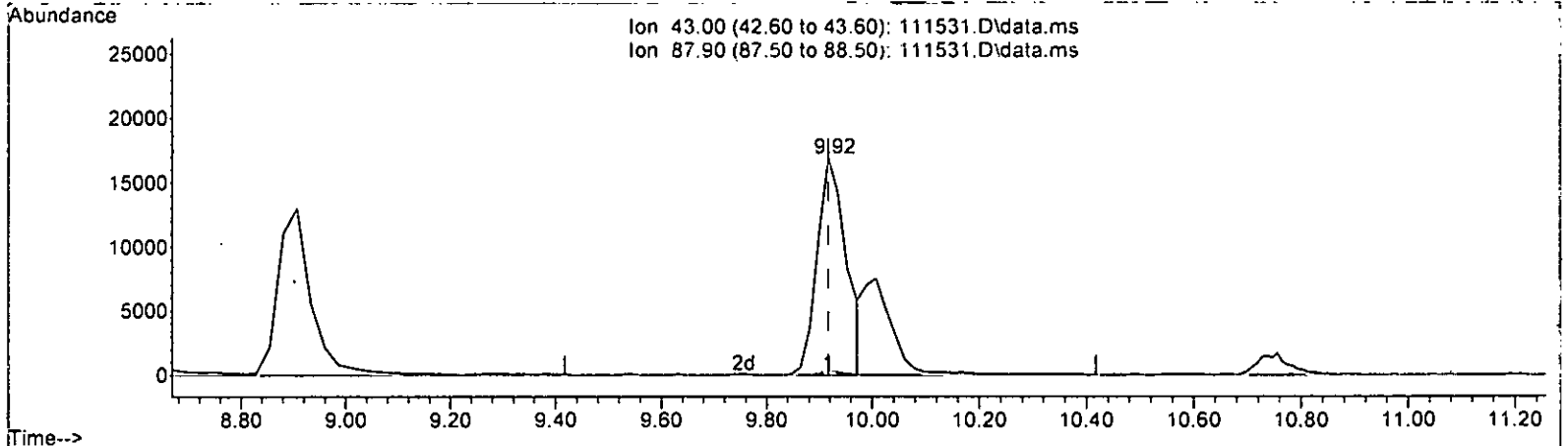
(31) Ethyl acetate (TMP)		
9.918min (-0.000)	3.959 ppbv	
response	92951	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	1.00#
0.00	0.00	0.00
0.00	0.00	0.00

*W. H. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

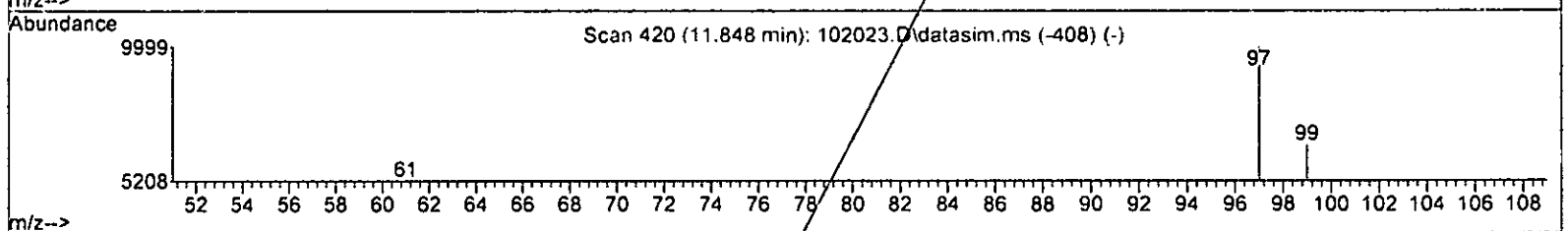
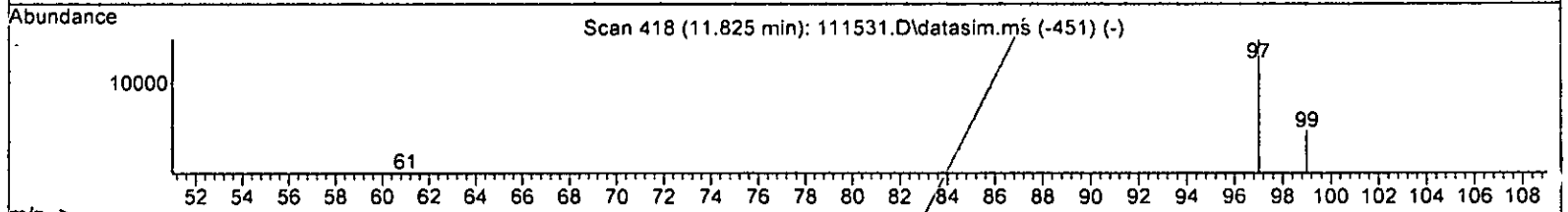
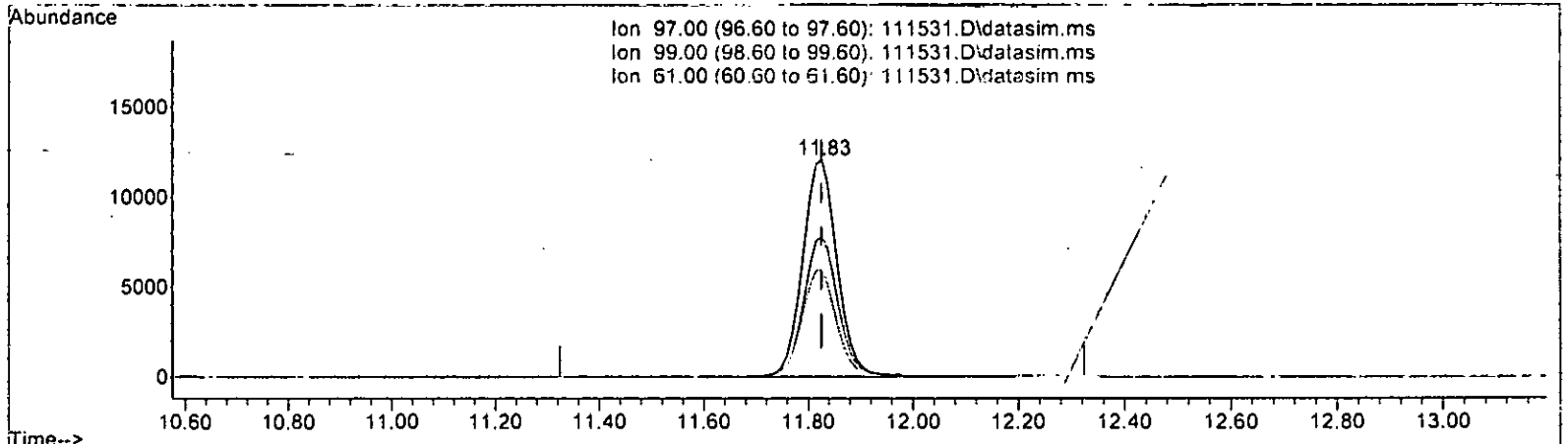
(31) Ethyl acetate (TMP)		
9.918min (-0.000)	2.770 ppbv m	
response	65034	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	1.43
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111531.D\data.ms

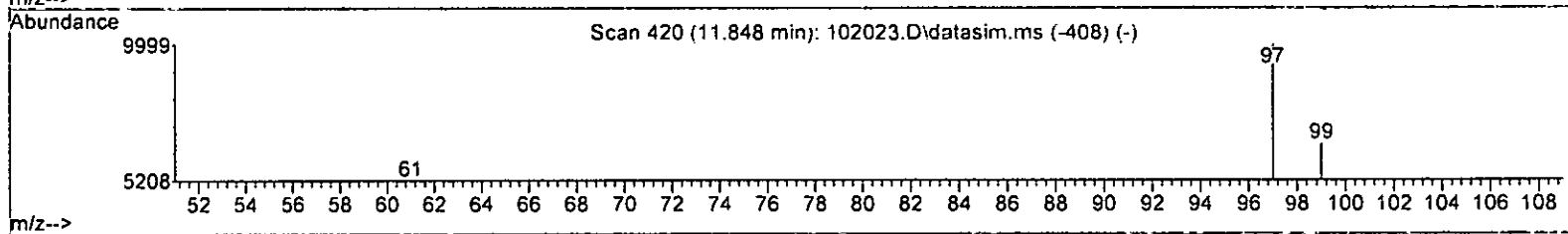
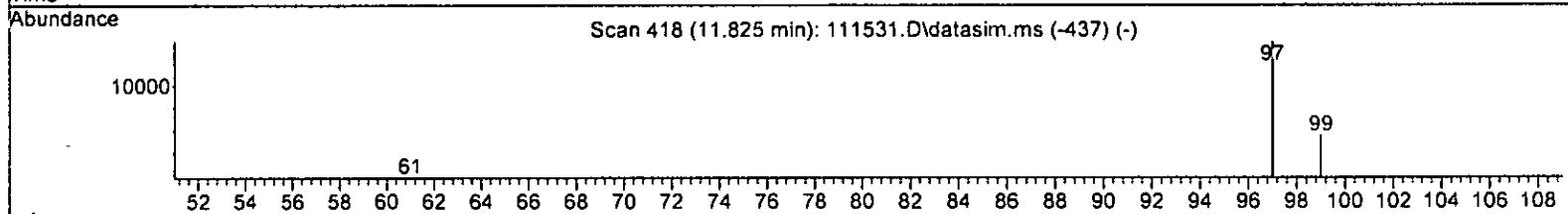
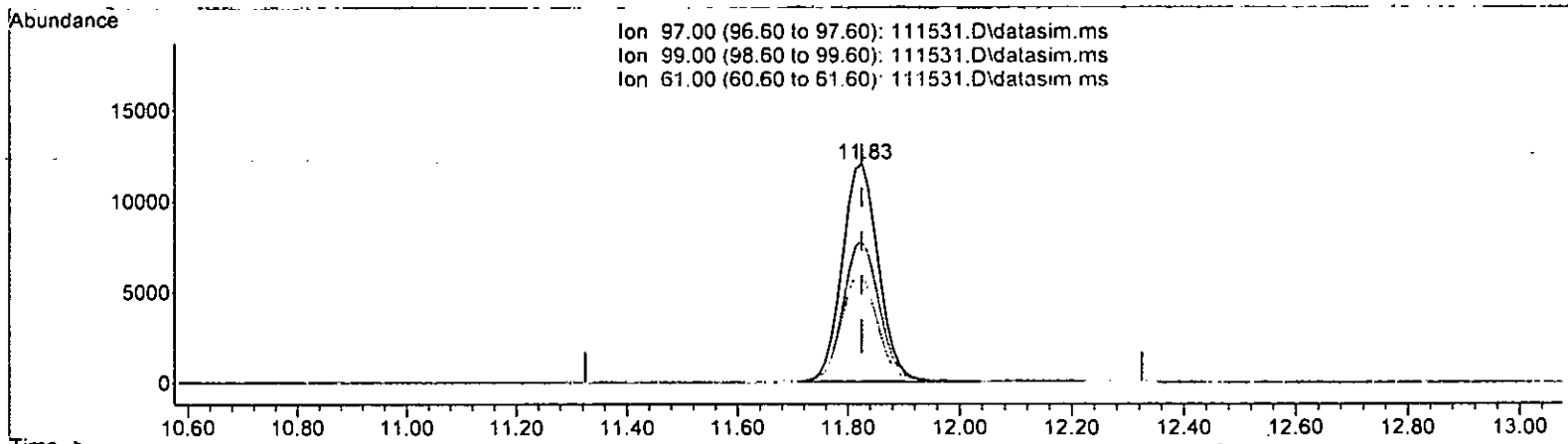
(35) 1,1,1-Trichloroethane (TMP)		
11.825min (+ 0.000)	2.690 ppbv	
response	55745	
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	64.90
61.00	49.30	49.26
0.00	0.00	0.00

*h/n*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

(35)	1,1,1-Trichloroethane (TMP)	
11.825min (+ 0.000)	2.635 ppbv m	
response	54606	
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	64.90
61.00	49.30	49.26
0.00	0.00	0.00

*W/alt*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 2Scc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCM57 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	61975	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	285054	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	252304	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	184349	10.543	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	105.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	25209	3.082	ppbv	90
3) Dichlorodifluoromethane	3.49	85	69321	2.713	ppbv	98
4] Chloromethane	3.73	50	30819m	2.642	ppbv	
5) F-114	3.84	85	70686	2.705	ppbv	98
6] Vinyl chloride	4.09	62	29416	2.565	ppbv	98
7] 1,3-Butadiene	4.29	54	19220	2.550	ppbv #	91
8) Butane	4.36	43	37260	2.754	ppbv	99
9) Bromomethane	4.60	94	30156	2.634	ppbv	92
10] Chloroethane	4.84	64	10966m	2.703	ppbv	
11] Vinyl bromide	5.32	106	26943m	2.701	ppbv	
12) Ethanol	4.96	45	8816	2.145	ppbv	94
13] Acrolein	5.41	56	10966m	2.428	ppbv	
14) Pentane	6.25	43	42830	2.809	ppbv	97
15) Trichlorofluoromethane	5.84	101	79079	2.669	ppbv	99
16) Acetone	5.57	58	11170	2.537	ppbv	93
17) 2-Propanol	5.80	45	51858	2.703	ppbv	93
18] 1,1-Dichloroethene	6.63	96	26078	2.557	ppbv	96
19] trans-1,2-Dichloroethene	8.10	96	25989	2.624	ppbv #	73
20) Methylene chloride	6.80	84	26049	2.842	ppbv	95
21) t-Butyl alcohol (TBA)	6.57	59	46241	2.797	ppbv #	75
22) 3-Chloropropene	6.94	41	36089	2.832	ppbv	100
23) CFC-113	7.15	101	58356	2.714	ppbv	98
24) Carbon disulfide	7.28	76	88752	2.772	ppbv	94
25) Methyl t-butyl ether (...)	8.43	73	59673	2.804	ppbv	99
26) Vinyl acetate	8.54	43	62089m	2.636	ppbv	
27] 1,1-Dichloroethane	8.36	63	55849	2.696	ppbv	99
28] cis-1,2-Dichloroethene	9.64	96	27622	2.637	ppbv	100
29) Hexane	10.01	57	35835	2.796	ppbv	97
30] Chloroform	10.08	83	66242	2.786	ppbv	95
31) Ethyl acetate	9.92	43	65034m	2.770	ppbv	
32) Tetrahydrofuran	10.75	42	30001	2.675	ppbv	97
33) 2-Butanone (MEK)	8.91	72	10955	2.856	ppbv	96
34] 1,2-Dichloroethane (EDC)	11.34	62	42782	2.697	ppbv	99
35] 1,1,1-Trichloroethane	11.83	97	54606m	2.635	ppbv	
36] Carbon tetrachloride	12.86	117	36374	1.666	ppbv	97
37] Benzene	12.61	78	88298	2.727	ppbv	95
38) Cyclohexane	13.07	84	22831	2.695	ppbv	93
40] 1,2-Dichloropropane	13.80	63	40956	2.654	ppbv	99



Data Path : D:\Proc\_GCM57\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCM57

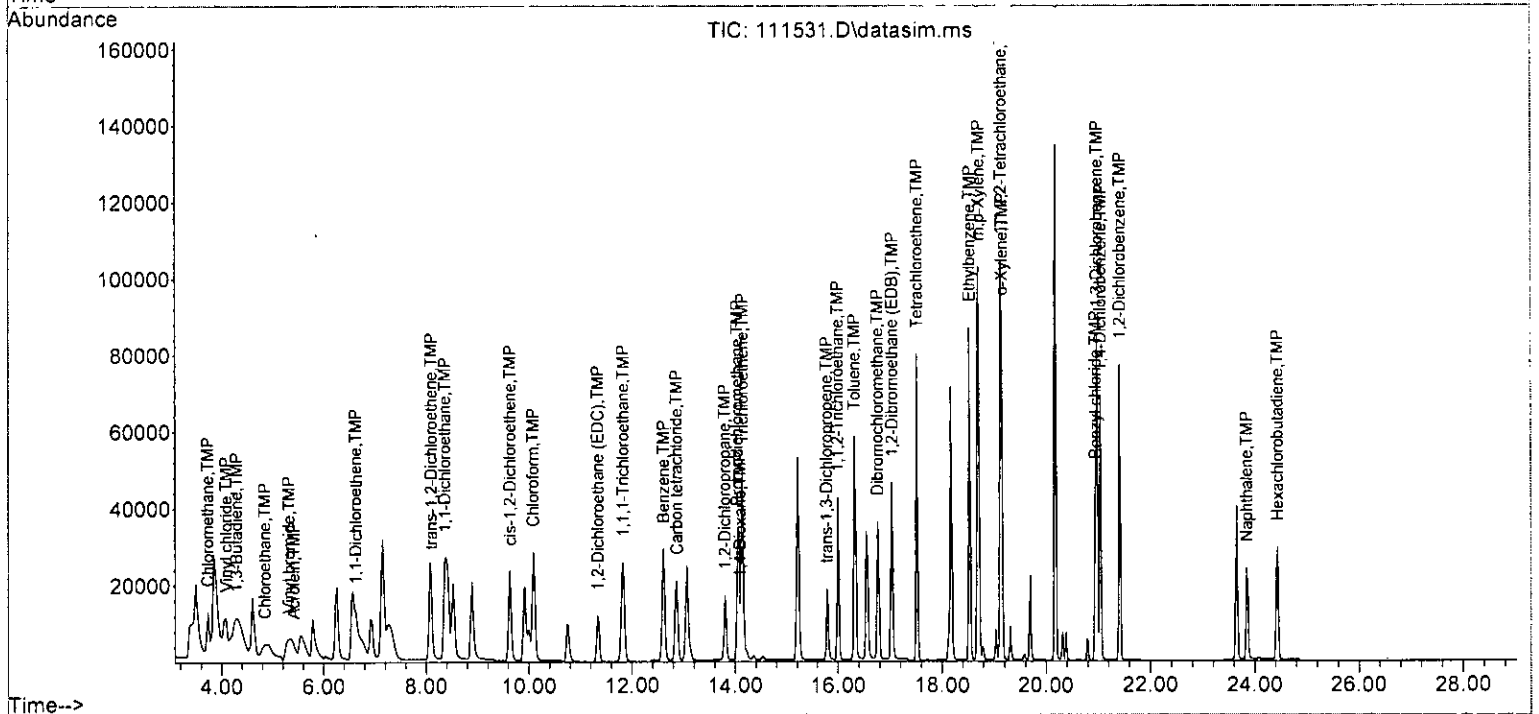
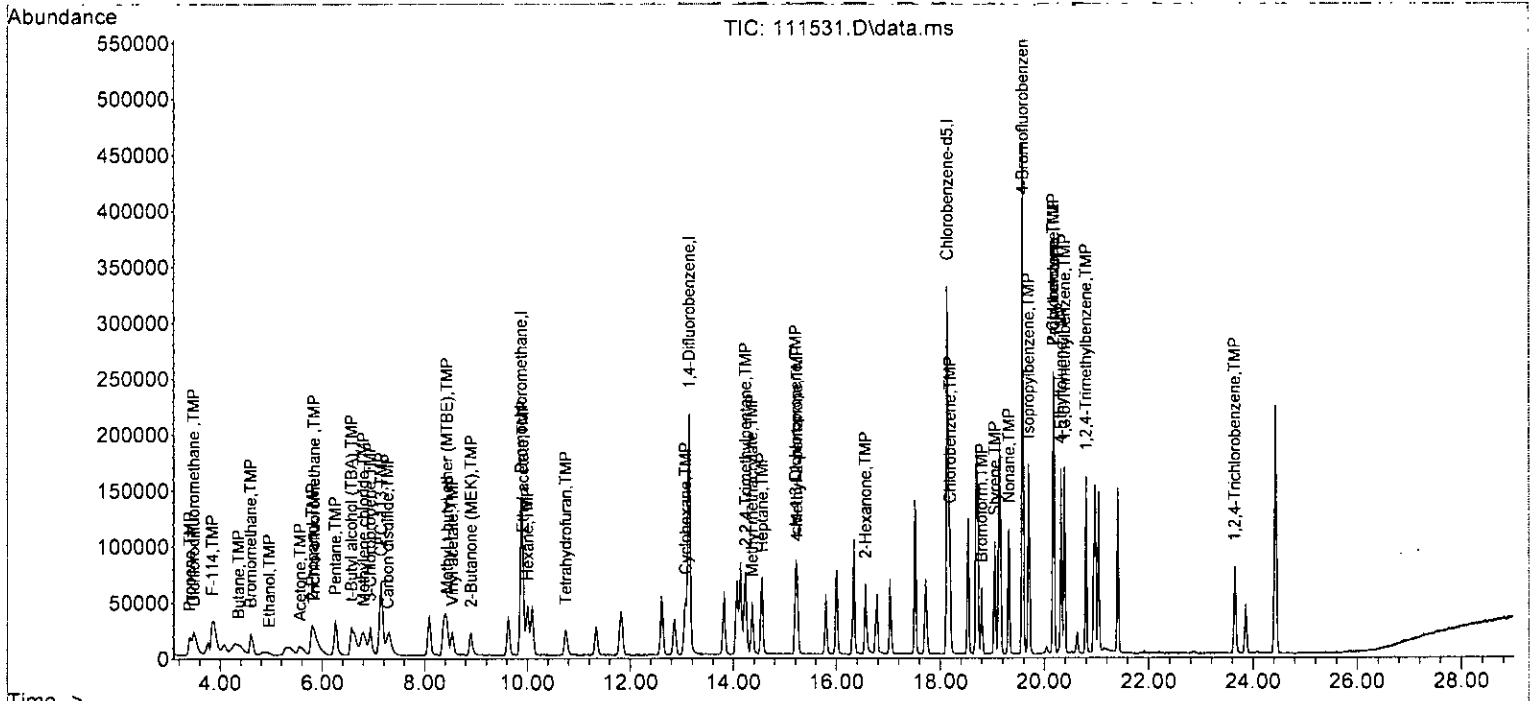
Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCM57 Methods\1115T015ss7.M  
 Quant Title : T0-15 55 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	17518	2.669	ppbv	78
42) 2,2,4-Trimethylpentane	14.24	57	122609	2.691	ppbv	93
43) Methyl methacrylate	14.36	41	36708	2.654	ppbv	96
44) Heptane	14.56	43	51797	2.739	ppbv	98
45] Bromodichloromethane	14.04	83	59200	2.445	ppbv	100
46] Trichloroethene	14.14	95	43413	2.568	ppbv	94
47) cis-1,3-Dichloropropene	15.20	75	44702	2.619	ppbv	92
48) 4-Methyl-2-pentanone	15.23	100	3391	2.688	ppbv #	96
49] trans-1,3-Dichloropropene	15.78	75	42262	2.633	ppbv	82
50] Toluene	16.31	92	55036	2.731	ppbv	97
51] 1,1,2-Trichloroethane	16.00	83	40225	2.741	ppbv	93
52) 2-Hexanone	16.56	43	65975	2.735	ppbv	93
53] Tetrachloroethene	17.52	164	37752	2.704	ppbv	91
54] Dibromochloromethane	16.76	129	43793	1.785	ppbv	99
55] 1,2-Dibromoethane (EDB)	17.04	107	58426	2.699	ppbv	97
57) Chlorobenzene	18.19	112	75900	2.733	ppbv	97
58] Ethylbenzene	18.53	91	123621	2.743	ppbv	96
59] 1,1,2,2-Tetrachloroethane	19.13	83	90916	2.716	ppbv	92
60) Nonane	19.32	43	68538	2.770	ppbv	99
61) Isopropylbenzene	19.70	105	128989	2.853	ppbv	98
62) 2-Chlorotoluene	20.17	126	31705	2.805	ppbv	91
63) Propylbenzene	20.17	91	245974	2.962	ppbv	98
64) 4-Ethyltoluene	20.32	105	112314	2.763	ppbv	99
65] m,p-Xylene	18.70	106	88802	5.558	ppbv	96
66] o-Xylene	19.15	106	43533	2.806	ppbv	99
67) Styrene	19.05	104	59060	2.858	ppbv	96
68) Bromoform	18.80	173	33565	1.294	ppbv	99
70] Benzyl chloride	20.95	91	69517	2.385	ppbv	99
71) 1,3,5-Trimethylbenzene	20.39	105	108574	2.968	ppbv	98
72) 1,2,4-Trimethylbenzene	20.80	105	92552	2.713	ppbv	100
73] 1,3-Dichlorobenzene	20.98	146	73799	2.891	ppbv	99
74] 1,4-Dichlorobenzene	21.05	146	68285	2.858	ppbv	99
75] 1,2-Dichlorobenzene	21.41	146	73948	2.861	ppbv	95
76) 1,2,4-Trichlorobenzene	23.64	180	39701	2.480	ppbv	98
77] Naphthalene	23.84	128	54269	2.569	ppbv	98
78] Hexachlorobutadiene	24.44	225	70740	2.684	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCM57\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCM57 Methods\1115T015ss7.M  
 Quant Title : T0-15 55 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	103	0.00
2 TMP Propene	2.500	3.082	-23.3	118	0.00
3 TMP Dichlorodifluoromethane	2.500	2.713	-8.5	107	0.00
4 TMP Chloromethane	2.500	2.642	-5.7	108	0.00
5 TMP F-114	2.500	2.705	-8.2	112	-0.04
6 TMP Vinyl chloride	2.500	2.565	-2.6	107	0.00
7 TMP 1,3-Butadiene	2.500	2.550	-2.0	108	0.00
8 TMP Butane	2.500	2.754	-10.2	108	0.04
9 TMP Bromomethane	2.500	2.634	-5.4	108	0.00
10 TMP Chloroethane	2.500	2.703	-8.1	105	0.00
11 TMP Vinyl bromide	2.500	2.701	-8.0	106	0.00
12 TMP Ethanol	2.500	2.145	14.2	82	0.00
13 TMP Acrolein	2.500	2.428	2.9	111	0.00
14 TMP Pentane	2.500	2.809	-12.4	108	0.00
15 TMP Trichlorofluoromethane	2.500	2.669	-6.8	102	0.00
16 TMP Acetone	2.500	2.537	-1.5	95	0.00
17 TMP 2-Propanol	2.500	2.703	-8.1	107	0.02
18 TMP 1,1-Dichloroethene	2.500	2.557	-2.3	107	0.00
19 TMP trans-1,2-Dichloroethene	2.500	2.624	-5.0	107	0.00
20 TMP Methylene chloride	2.500	2.842	-13.7	106	0.00
21 TMP t-Butyl alcohol (TBA)	2.500	2.797	-11.9	117	0.00
22 TMP 3-Chloropropene	2.500	2.832	-13.3	115	0.00
23 TMP CFC-113	2.500	2.714	-8.6	104	0.00
24 TMP Carbon disulfide	2.500	2.772	-10.9	101	0.00
25 TMP Methyl t-butyl ether (MTBE)	2.500	2.804	-12.2	108	0.00
26 TMP Vinyl acetate	2.500	2.636	-5.4	101	0.00
27 TMP 1,1-Dichloroethane	2.500	2.696	-7.8	106	0.00
28 TMP cis-1,2-Dichloroethene	2.500	2.637	-5.5	108	0.00
29 TMP Hexane	2.500	2.796	-11.8	113	0.00
30 TMP Chloroform	2.500	2.786	-11.4	108	-0.02
31 TMP Ethyl acetate	2.500	2.770	-10.8	112	0.00
32 TMP Tetrahydrofuran	2.500	2.675	-7.0	112	0.00
33 TMP 2-Butanone (MEK)	2.500	2.856	-14.2	109	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.500	2.697	-7.9	106	0.00
35 TMP 1,1,1-Trichloroethane	2.500	2.635	-5.4	99	0.00
36 TMP Carbon tetrachloride	2.500	1.666	33.4#	64	0.00
37 TMP Benzene	2.500	2.727	-9.1	107	0.00
38 TMP Cyclohexane	2.500	2.695	-7.8	105	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	103	0.00
40 TMP 1,2-Dichloropropane	2.500	2.654	-6.2	107	0.00
41 TMP 1,4-Dioxane	2.500	2.669	-6.8	114	0.00
42 TMP 2,2,4-Trimethylpentane	2.500	2.691	-7.6	106	0.00
43 TMP Methyl methacrylate	2.500	2.654	-6.2	101	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 AL5 Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 55 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	2.500	2.739	-9.6	108	0.00
45 TMP Bromodichloromethane	2.500	2.445	2.2	93	0.00
46 TMP Trichloroethene	2.500	2.568	-2.7	108	0.00
47 TMP cis-1,3-Dichloropropene	2.500	2.619	-4.8	98	0.00
48 TMP 4-Methyl-2-pentanone	2.500	2.688	-7.5	107	0.00
49 TMP trans-1,3-Dichloropropene	2.500	2.633	-5.3	101	0.00
50 TMP Toluene	2.500	2.731	-9.2	108	0.00
51 TMP 1,1,2-Trichloroethane	2.500	2.741	-9.6	106	0.00
52 TMP 2-Hexanone	2.500	2.735	-9.4	110	0.00
53 TMP Tetrachloroethene	2.500	2.704	-8.2	106	0.00
54 TMP Dibromochloromethane	2.500	1.785	28.6	69	0.00
55 TMP 1,2-Dibromoethane (EDB)	2.500	2.699	-8.0	105	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	104	0.00
57 TMP Chlorobenzene	2.500	2.733	-9.3	109	0.00
58 TMP Ethylbenzene	2.500	2.743	-9.7	108	0.00
59 TMP 1,1,2,2-Tetrachloroethane	2.500	2.716	-8.6	105	0.00
60 TMP Nonane	2.500	2.770	-10.8	107	0.02
61 TMP Isopropylbenzene	2.500	2.853	-14.1	106	0.00
62 TMP 2-Chlorotoluene	2.500	2.805	-12.2	106	0.00
63 TMP Propylbenzene	2.500	2.962	-18.5	109	-0.01
64 TMP 4-Ethyltoluene	2.500	2.763	-10.5	110	0.00
65 TMP m,p-Xylene	5.000	5.558	-11.2	109	0.00
66 TMP o-Xylene	2.500	2.806	-12.2	108	0.00
67 TMP Styrene	2.500	2.858	-14.3	113	0.00
68 TMP Bromoform	2.500	1.294	48.2#	50	0.00
69 S 4-Bromofluorobenzene	10.000	10.543	-5.4	102	0.00
70 TMP Benzyl chloride	2.500	2.385	4.6	93	0.00
71 TMP 1,3,5-Trimethylbenzene	2.500	2.968	-18.7	108	0.00
72 TMP 1,2,4-Trimethylbenzene	2.500	2.713	-8.5	112	0.00
73 TMP 1,3-Dichlorobenzene	2.500	2.891	-15.6	110	0.00
74 TMP 1,4-Dichlorobenzene	2.500	2.858	-14.3	111	0.00
75 TMP 1,2-Dichlorobenzene	2.500	2.861	-14.4	109	0.00
76 TMP 1,2,4-Trichlorobenzene	2.500	2.480	0.8	120	0.00
77 TMP Naphthalene	2.500	2.569	-2.8	124	0.00
78 TMP Hexachlorobutadiene	2.500	2.684	-7.4	109	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 2Sppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	103	0.00
2 TMP Propene	1.556	1.627	-4.6	118	0.00
3 TMP Dichlorodifluoromethane	4.123	4.474	-8.5	107	0.00
4 TMP Chloromethane	1.882	1.989	-5.7	108	0.00
5 TMP F-114	4.217	4.562	-8.2	112	-0.04
6 TMP Vinyl chloride	1.851	1.899	-2.6	107	0.00
7 TMP 1,3-Butadiene	1.216	1.241	-2.1	108	0.00
8 TMP Butane	2.183	2.405	-10.2	108	0.04
9 TMP Bromomethane	1.847	1.946	-5.4	108	0.00
10 TMP Chloroethane	0.655	0.708	-8.1	105	0.00
11 TMP Vinyl bromide	1.609	1.739	-8.1	106	0.00
12 TMP Ethanol	0.663	0.569	14.2	82	0.00
13 TMP Acrolein	0.729	0.708	2.9	111	0.00
14 TMP Pentane	2.461	2.764	-12.3	108	0.00
15 TMP Trichlorofluoromethane	4.781	5.104	-6.8	102	0.00
16 TMP Acetone	0.710	0.721	-1.5	95	0.00
17 TMP 2-Propanol	3.096	3.347	-8.1	107	0.02
18 TMP 1,1-Dichloroethene	1.645	1.683	-2.3	107	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.677	-4.9	107	0.00
20 TMP Methylene chloride	1.479	1.681	-13.7	106	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.984	-11.8	117	0.00
22 TMP 3-Chloropropene	2.056	2.329	-13.3	115	0.00
23 TMP CFC-113	3.469	3.766	-8.6	104	0.00
24 TMP Carbon disulfide	5.167	5.728	-10.9	101	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.851	-12.1	108	0.00
26 TMP Vinyl acetate	3.801	4.007	-5.4	101	0.00
27 TMP 1,1-Dichloroethane	3.342	3.605	-7.9	106	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.783	-5.5	108	0.00
29 TMP Hexane	2.068	2.313	-11.8	113	0.00
30 TMP Chloroform	4.060	4.275	-5.3	108	-0.02
31 TMP Ethyl acetate	3.789	4.197	-10.8	112	0.00
32 TMP Tetrahydrofuran	1.809	1.936	-7.0	112	0.00
33 TMP 2-Butanone (MEK)	0.619	0.707	-14.2	109	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.761	-2.8	106	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.524	-5.4	99	0.00
36 TMP Carbon tetrachloride	3.523	2.348	33.4#	64	0.00
37 TMP Benzene	5.688	5.699	-0.2	107	0.00
38 TMP Cyclohexane	1.367	1.474	-7.8	105	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
40 TMP 1,2-Dichloropropane	0.541	0.575	-6.3	107	0.00
41 TMP 1,4-Dioxane	0.230	0.246	-7.0	114	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.721	-7.7	106	0.00
43 TMP Methyl methacrylate	0.485	0.515	-6.2	101	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 5S method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.727	-9.7	108	0.00
45 TMP Bromodichloromethane	0.850	0.831	2.2	93	0.00
46 TMP Trichloroethene	0.593	0.609	-2.7	108	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.627	-4.7	98	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.048	-9.1	107	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.593	-5.3	101	0.00
50 TMP Toluene	0.707	0.772	-9.2	108	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.564	-2.5	106	0.00
52 TMP 2-Hexanone	0.846	0.926	-9.5	110	0.00
53 TMP Tetrachloroethene	0.490	0.530	-8.2	106	0.00
54 TMP Dibromochloromethane	0.861	0.615	28.6	69	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.820	0.5	105	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
57 TMP Chlorobenzene	1.101	1.203	-9.3	109	0.00
58 TMP Ethylbenzene	1.968	1.960	0.4	108	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.441	-3.4	105	0.00
60 TMP Nonane	0.981	1.087	-10.8	107	0.02
61 TMP Isopropylbenzene	1.792	2.045	-14.1	106	0.00
62 TMP 2-Chlorotoluene	0.448	0.503	-12.3	106	0.00
63 TMP Propylbenzene	3.292	3.900	-18.5	109	-0.01
64 TMP 4-Ethyltoluene	1.611	1.781	-10.6	110	0.00
65 TMP m,p-Xylene	0.633	0.704	-11.2	109	0.00
66 TMP o-Xylene	0.615	0.690	-12.2	108	0.00
67 TMP Styrene	0.819	0.936	-14.3	113	0.00
68 TMP Bromoform	1.028	0.532	48.2#	50#	0.00
69 S 4-Bromofluorobenzene	0.693	0.731	-5.5	102	0.00
70 TMP Benzyl chloride	0.987	1.102	-11.7	93	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.721	-18.7	108	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.467	-17.6	112	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.170	-15.6	110	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.083	-14.4	111	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.172	-14.5	109	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.629	-0.5	120	0.00
77 TMP Naphthalene	1.132	0.860	24.0	124	0.00
78 TMP Hexachlorobutadiene	1.045	1.122	-7.4	109	0.00

(#) = Out of Range

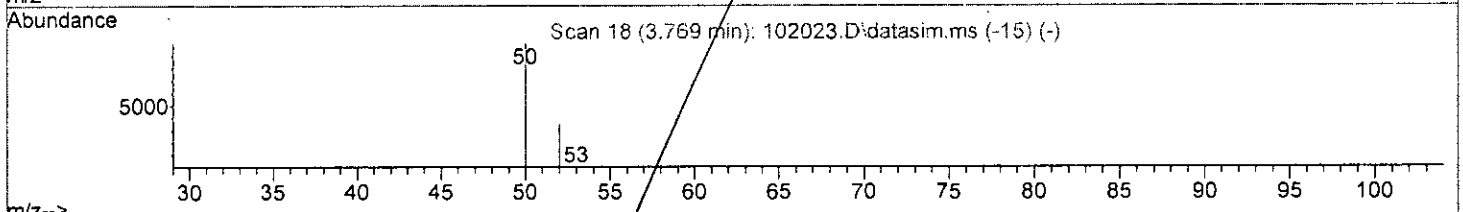
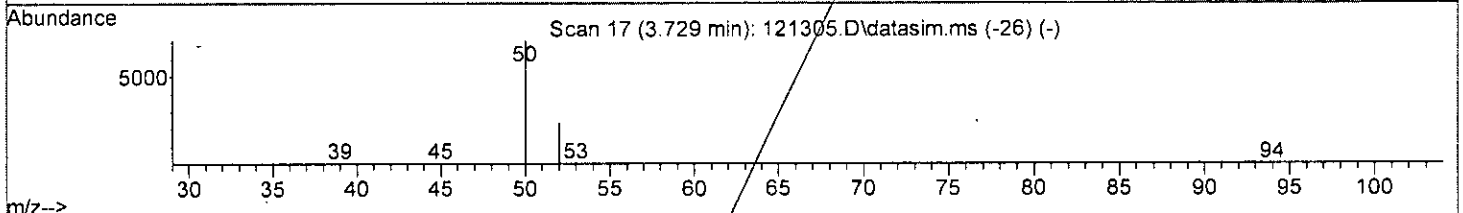
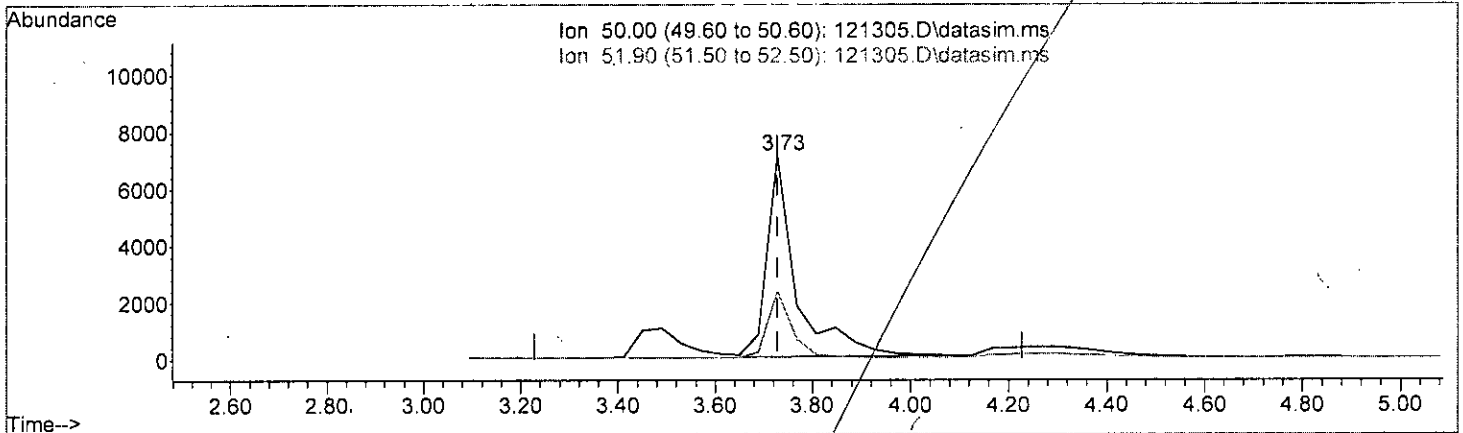
SPCC's out = 0 CCC's out = 0

**EPA TO-15  
CCV Summaries**

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

(4) Chloromethane (TMP)  
 3.729min (+ 0.000) - 3.213 ppbv

response	29495		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	32.84	
0.00	0.00	0.00	
0.00	0.00	0.00	

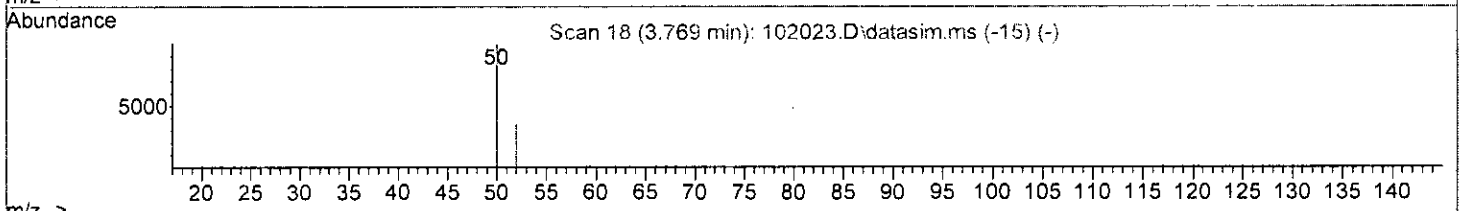
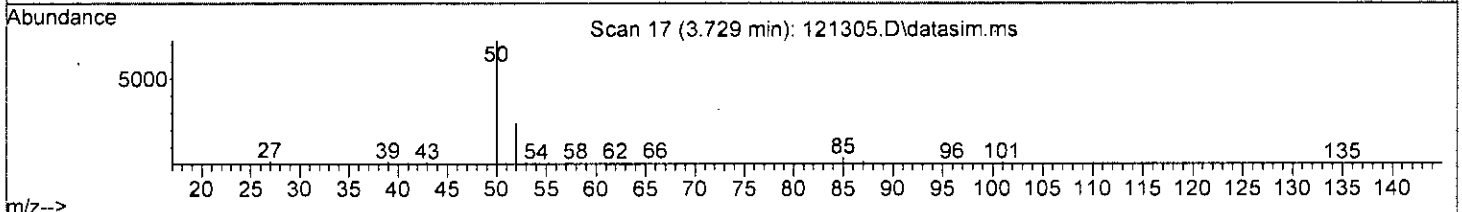
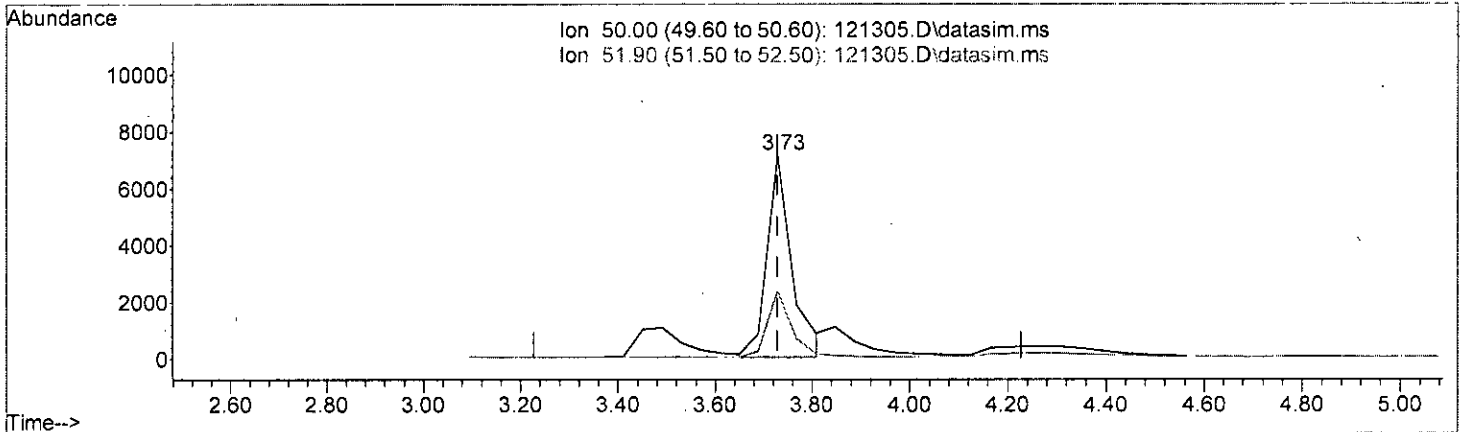
*Handwritten signature: h. raj...*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

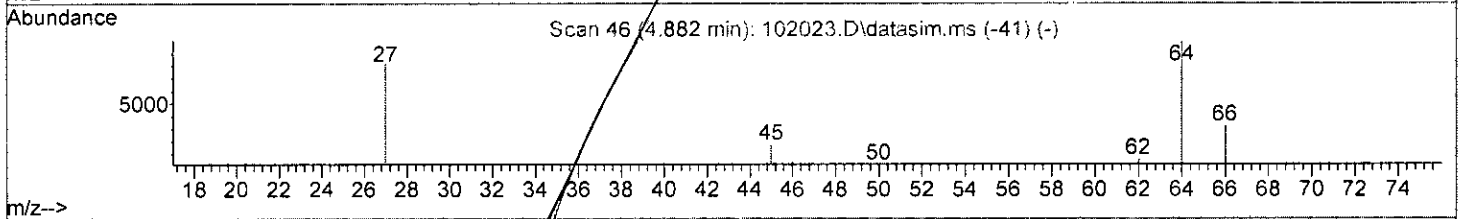
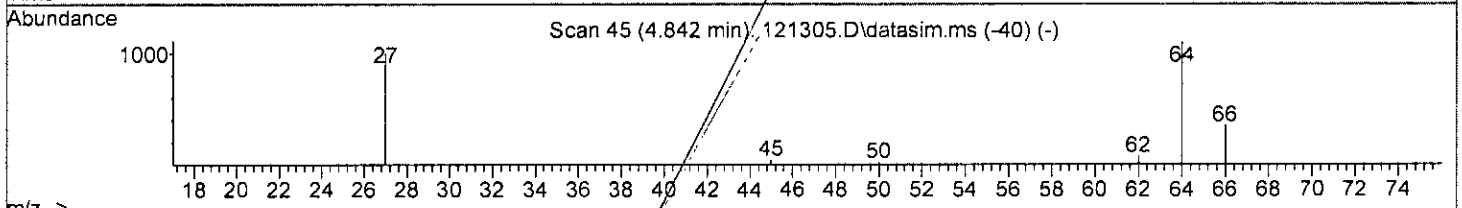
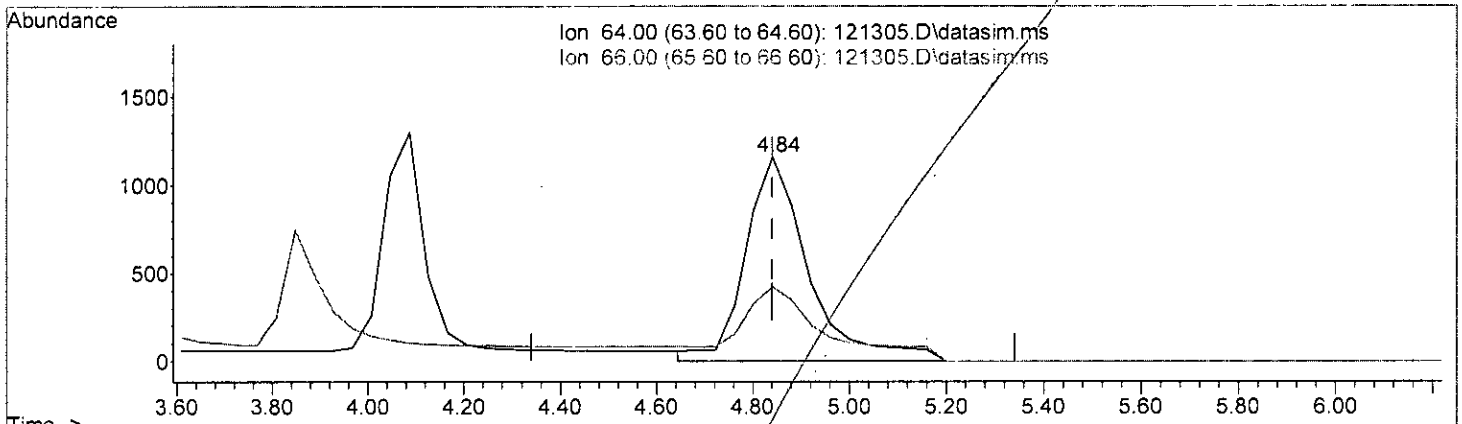
(4) Chloromethane (TMP)			
3.729min (+ 0.000)	2.749	ppbv	m
response	25235		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	33.21	
0.00	0.00	0.00	
0.00	0.00	0.00	

*h*  
*ca/12/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

(10) Chloroethane (TMP)

4.842min (-0.000) 3.188 ppbv

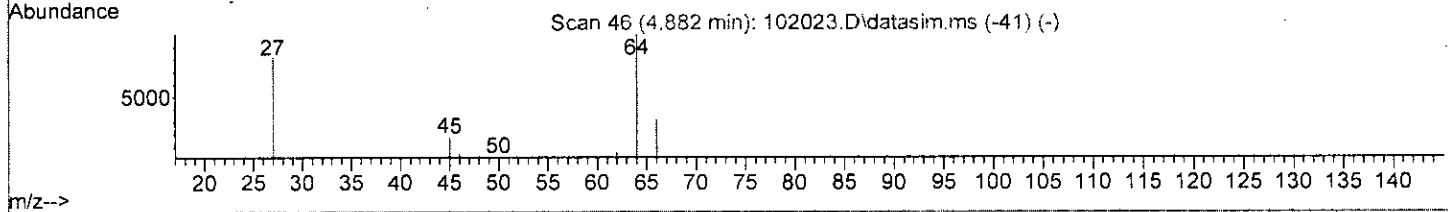
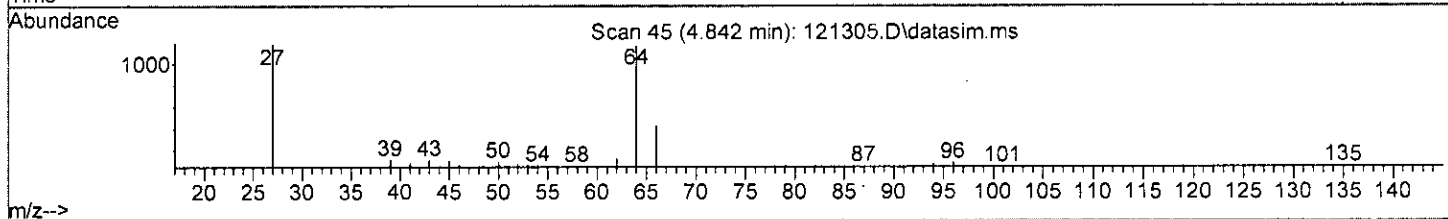
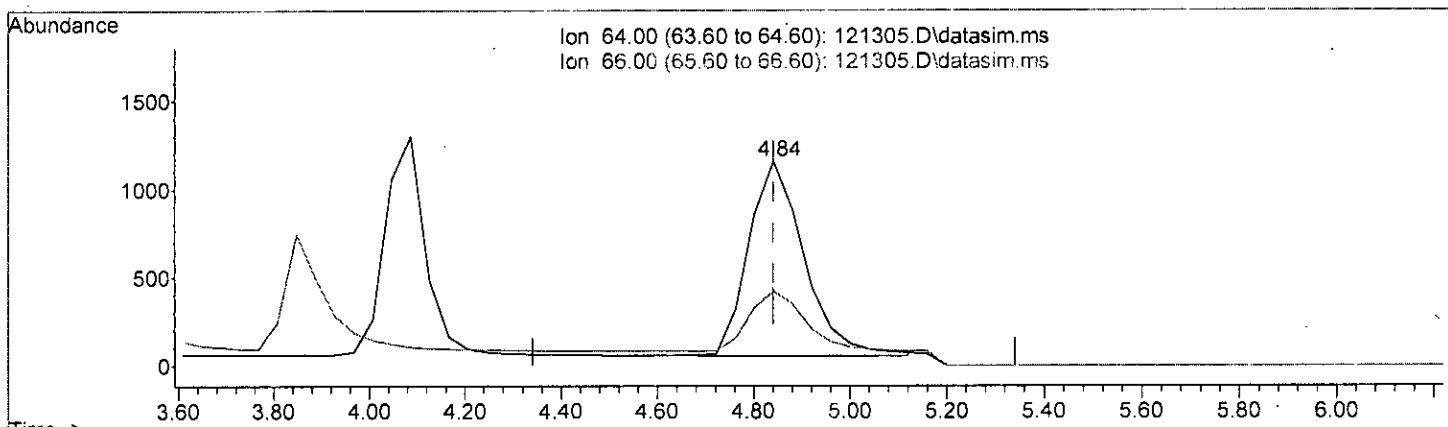
response	10177
Ion	Exp% Act%
64.00	100.00 100.00
66.00	31.80 36.32
0.00	0.00 0.00
0.00	0.00 0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121305.D\data.ms

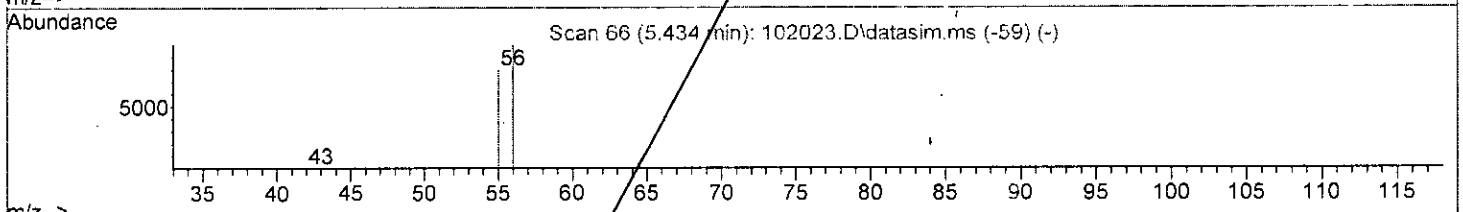
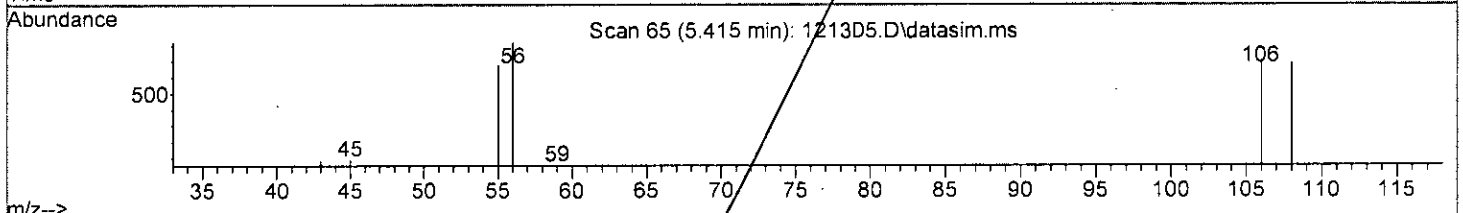
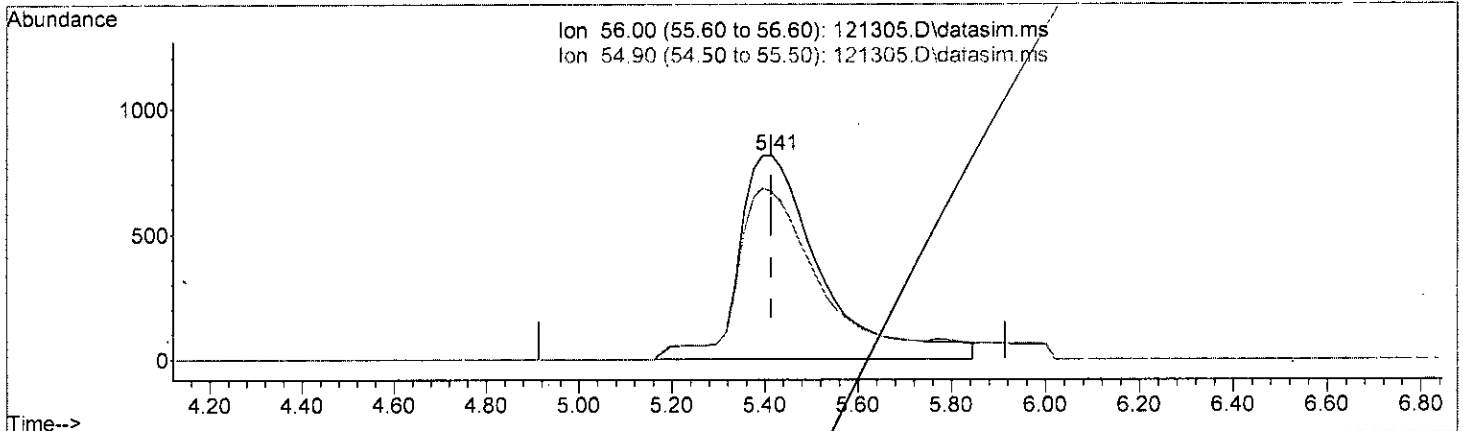
(10) Chloroethane (TMP)			
4.842min (-0.000) 2.756 ppbv m			
response	8796		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	31.80	36.32	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten note: 4.842*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121305.D\data.ms

(13) Acrolein (TMP)  
 5.415min (-0.000) 2.965 ppbv

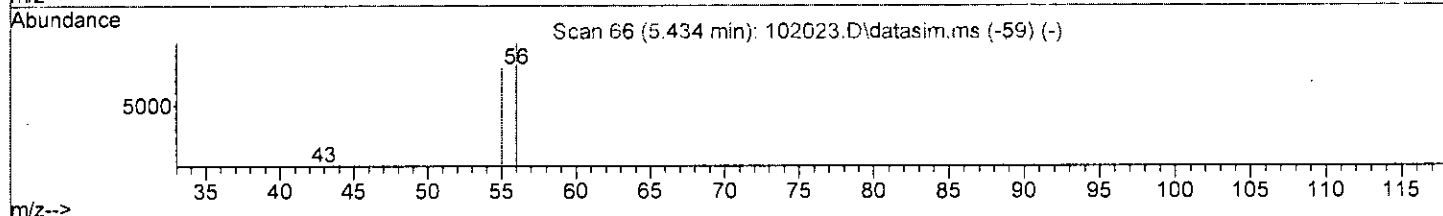
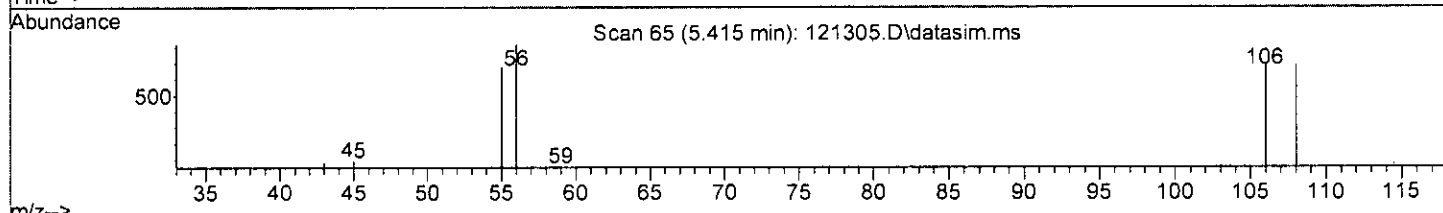
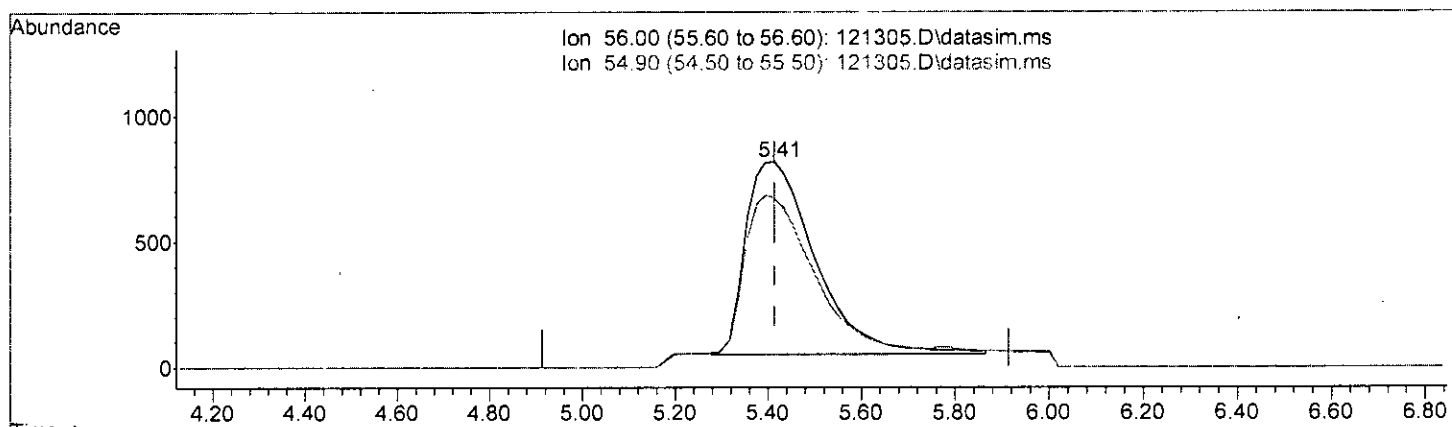
response	Ion	Exp%	Act%
10542	56.00	100.00	100.00
	54.90	81.00	66.67
	0.00	0.00	0.00
	0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

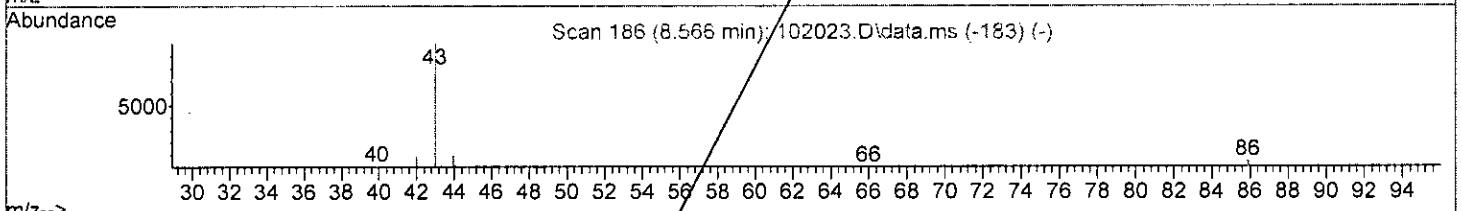
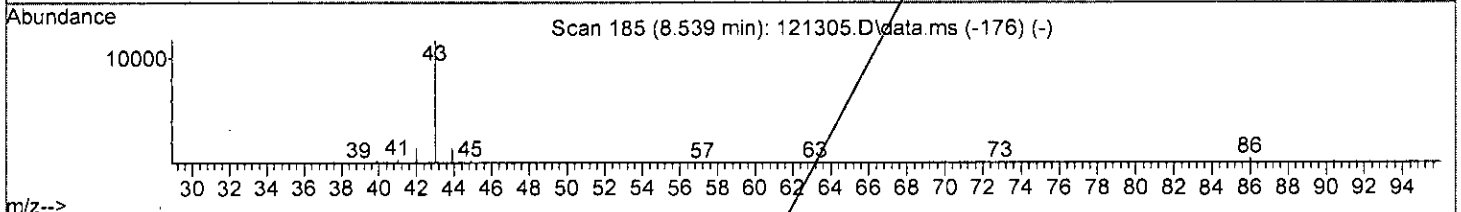
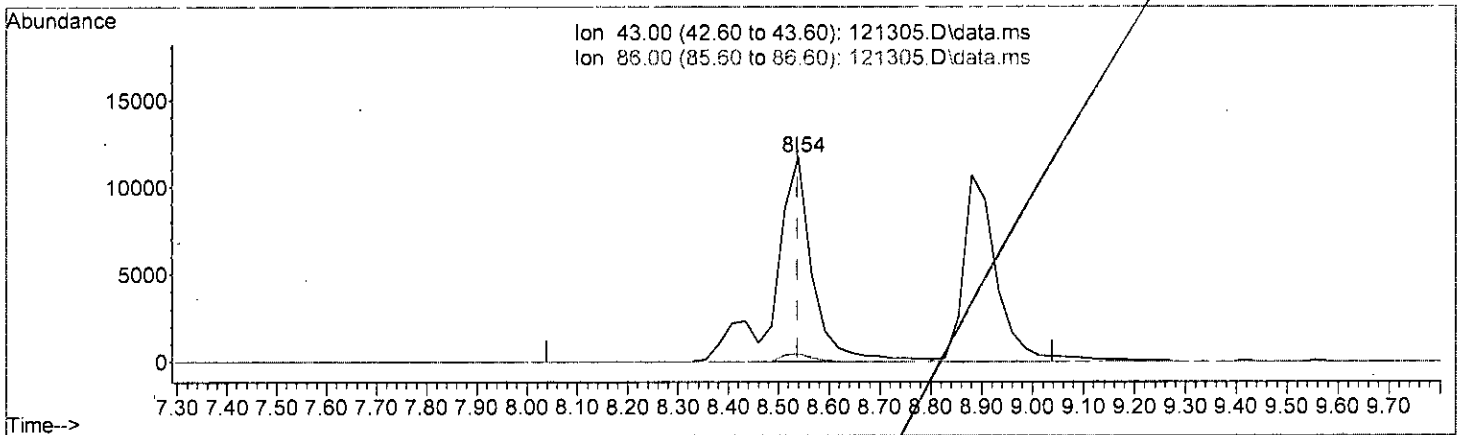
(13) Acrolein (TMP)			
5.415min (-0.000)		2.248 ppbv m	
response	7993		
Ion	Exp%	Act%	
56.00	100.00	100.00	
54.90	81.00	87.93	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: u 12/14/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

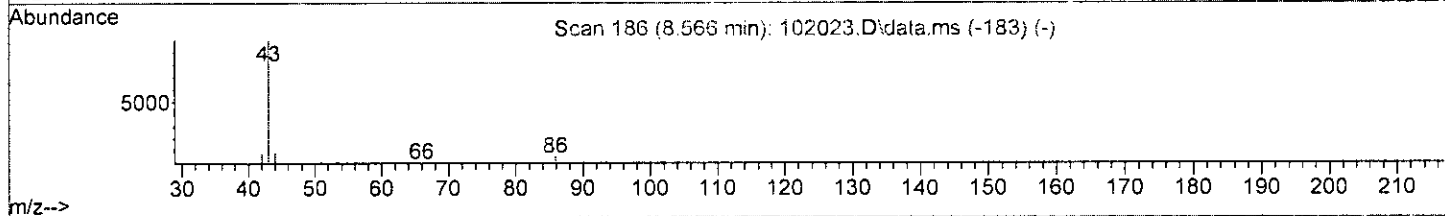
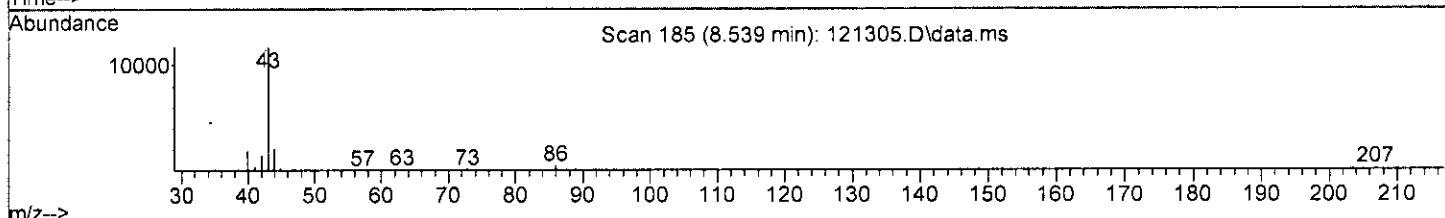
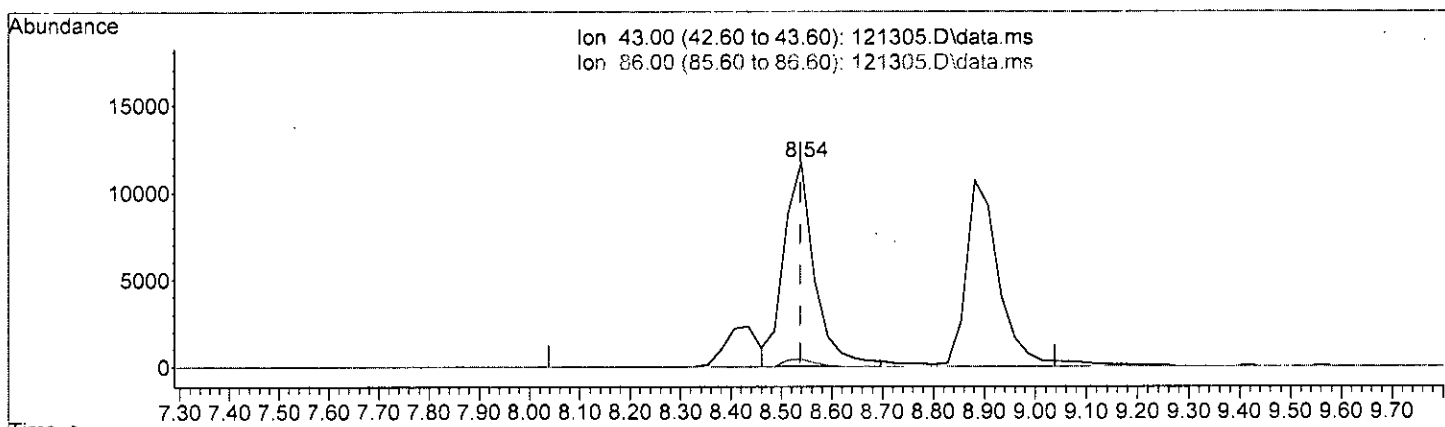
(26) Vinyl acetate (TMP)			
8.539min (+ 0.000)	3.255 ppbv		
response	60334		
Ion	Exp%	Act%	
43.00	100.00	100.00	
86.00	4.20	3.67	
0.00	0.00	0.00	
0.00	0.00	0.00	

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

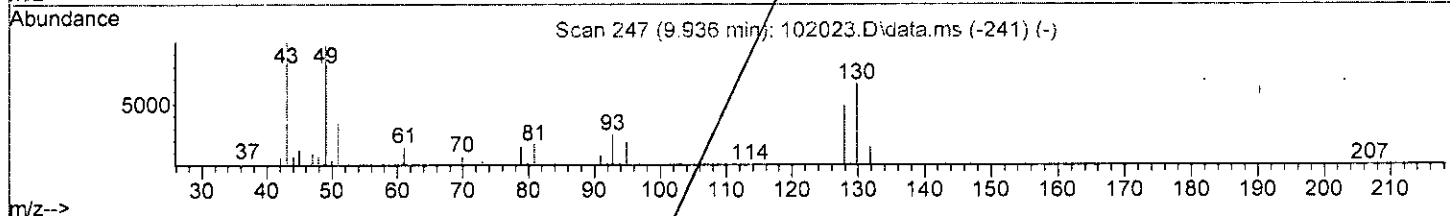
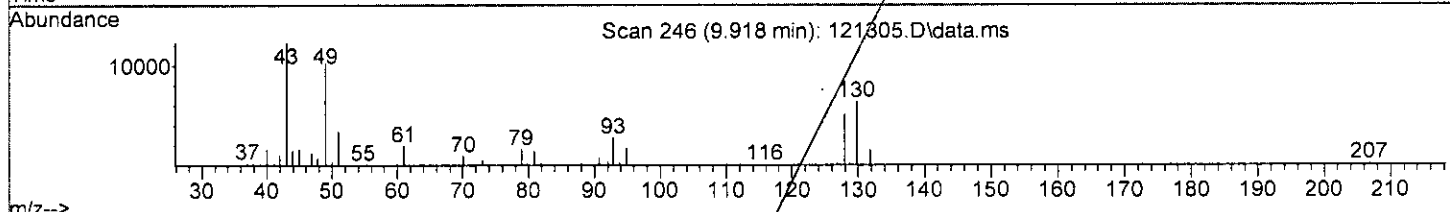
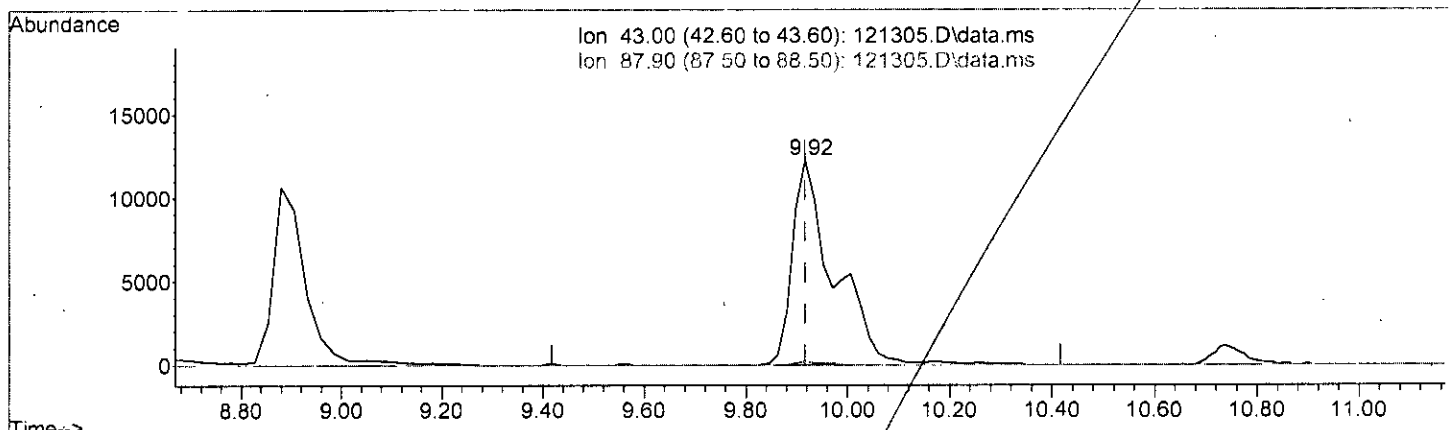
(26) Vinyl acetate (TMP)			
8.539min (+ 0.000)		2.637 ppbv m	
response	48882		
Ion	Exp%	Act%	
43.00	100.00	100.00	
86.00	4.20	3.67	
0.00	0.00	0.00	
0.00	0.00	0.00	

*W 12/14/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

(31) Ethyl acetate (TMP)

9.918min (-0.000) 3.680 ppbv

response 67989

Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.95#
0.00	0.00	0.00
0.00	0.00	0.00

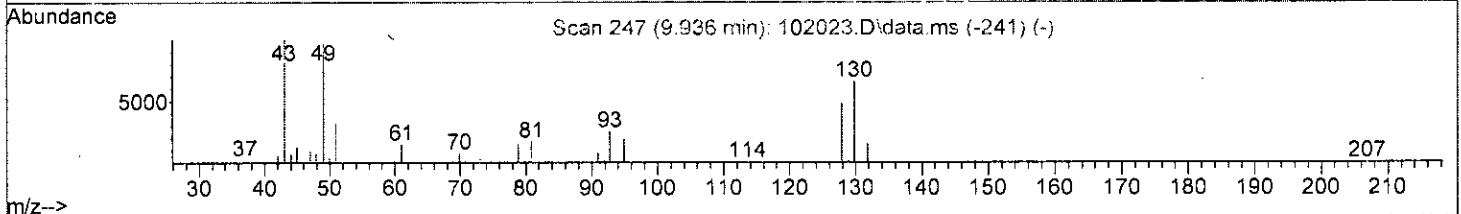
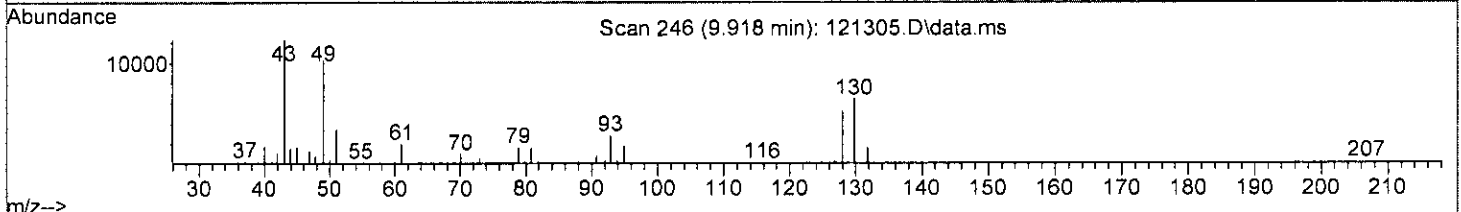
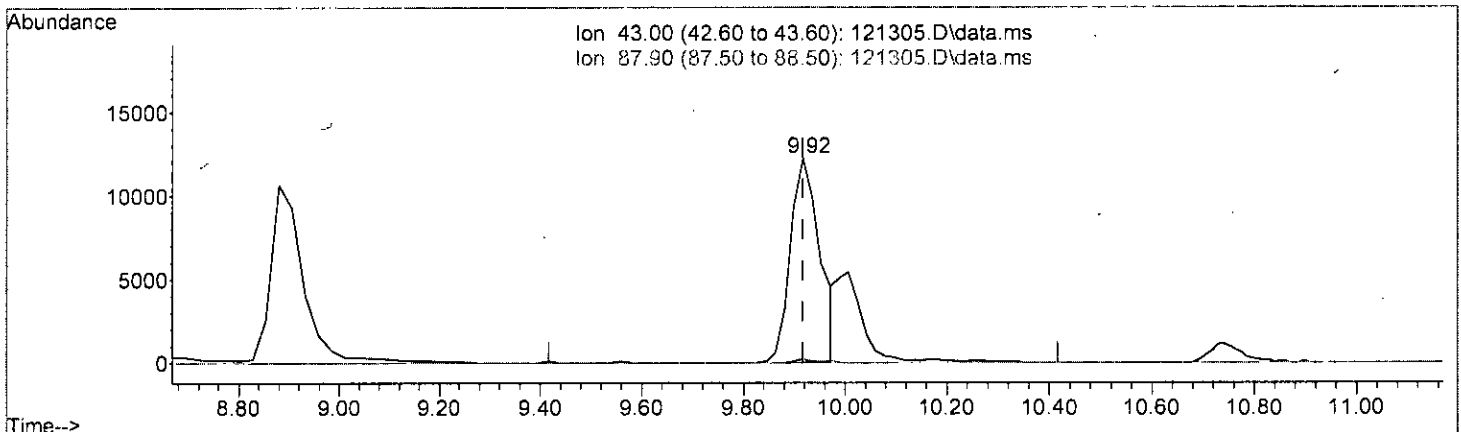
*Handwritten signature: M. J. [unclear]*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

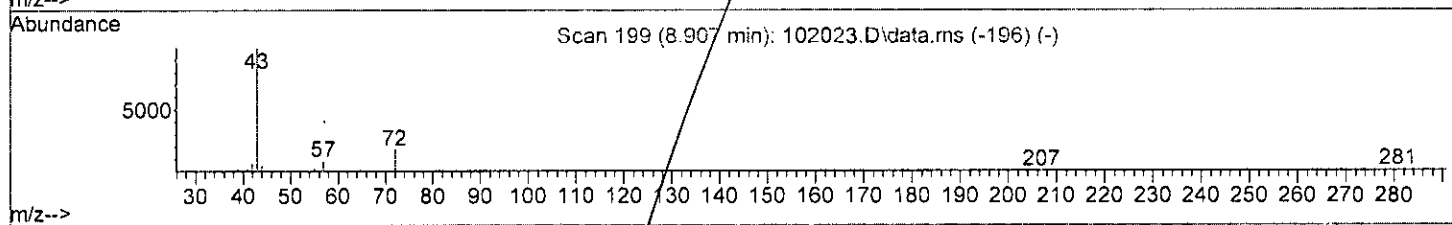
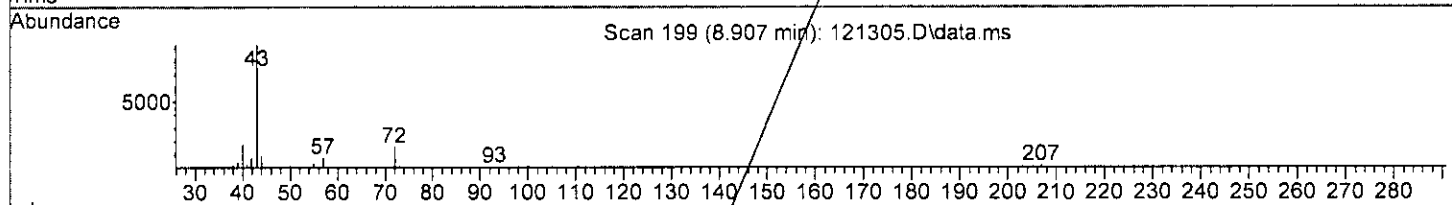
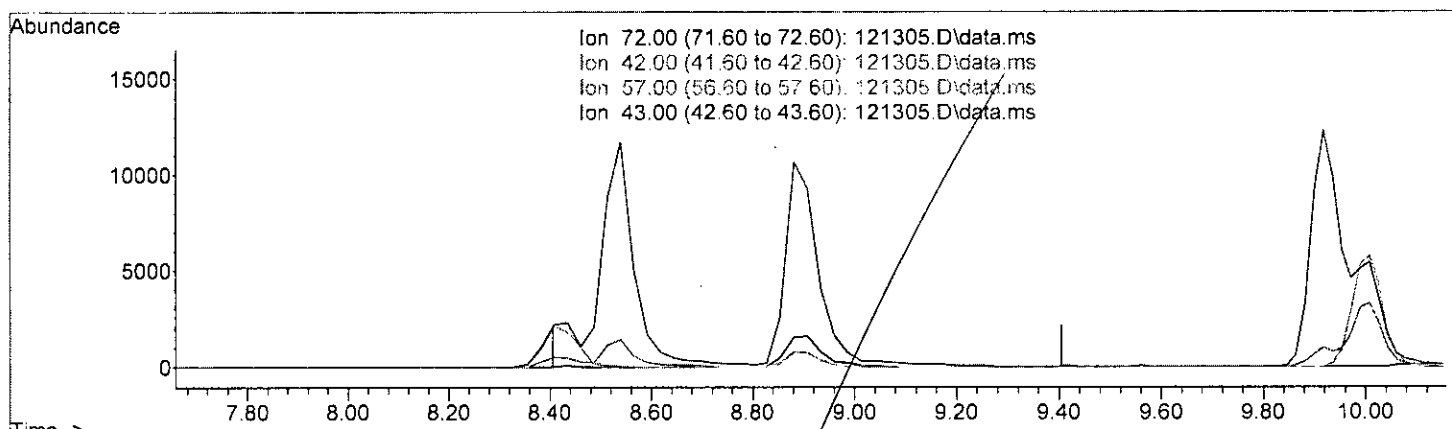
(31) Ethyl acetate (TMP)			
9.918min (-0.000) 2.660 ppbv m			
response	49154		
Ion	Exp%	Act%	
43.00	100.00	100.00	
87.90	1.70	1.32#	
0.00	0.00	0.00	
0.00	0.00	0.00	

*h 12/14/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

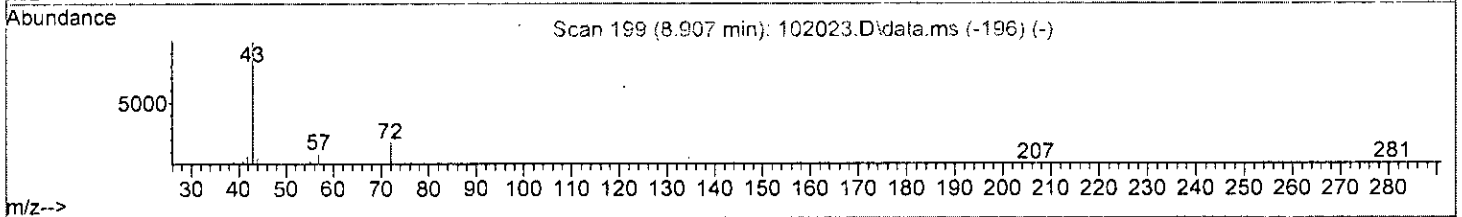
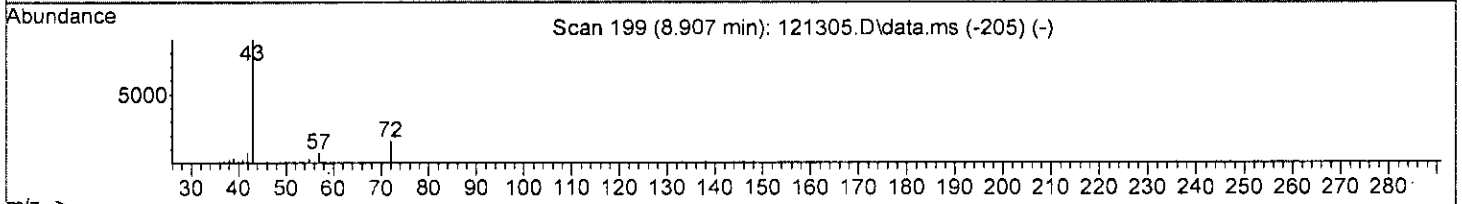
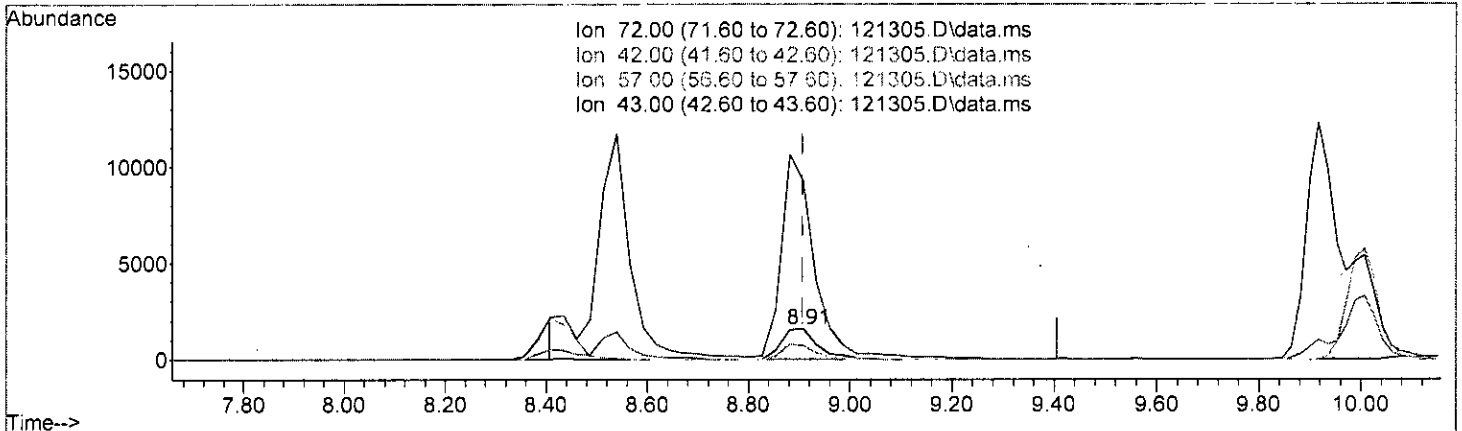
(33) 2-Butanone (MEK) (TMP)		
8.907min	0.000 ppbv d	
response	0	
Ion	Exp%	Act%
72.00	100.00	0.00
42.00	29.90	0.00
57.00	44.20	0.00
43.00	521.60	0.00

*Handwritten signature: h/ [unclear]*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

(33) 2-Butanone (MEK) (TMP)

8.907min (+ 0.000) 2.502 ppbv m

response 7553

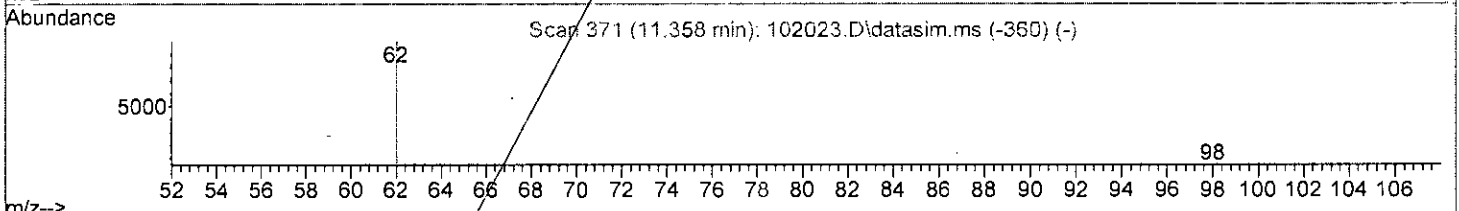
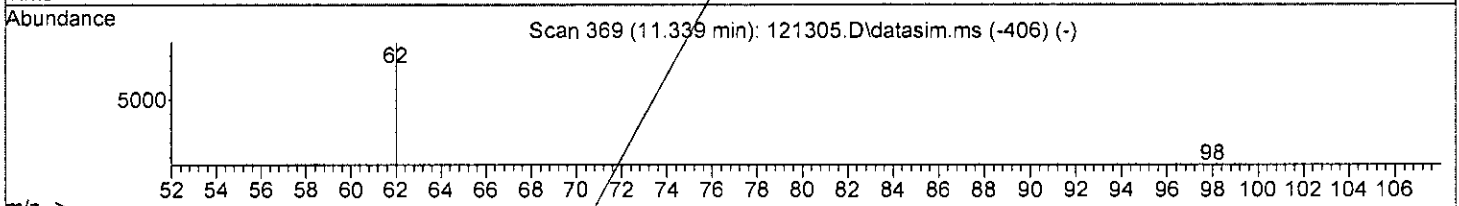
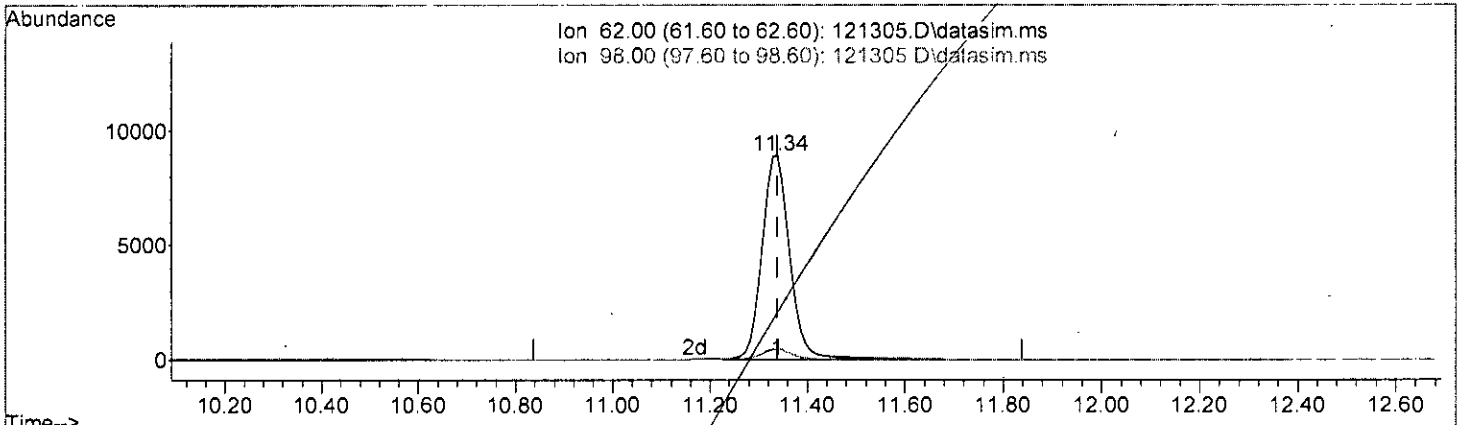
Ion	Exp%	Act%
72.00	100.00	100.00
42.00	29.90	46.12
57.00	44.20	46.12
43.00	521.60	587.60#

*h*  
*12/14/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121305.D\data.ms

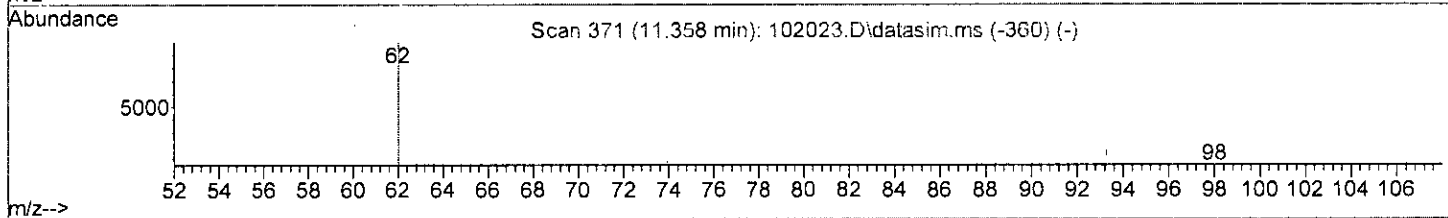
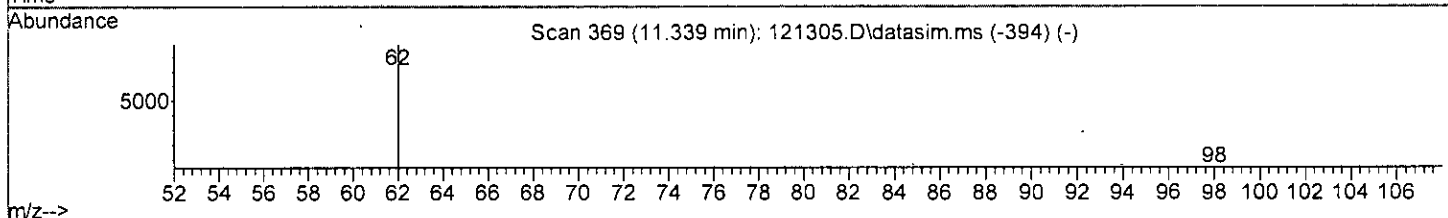
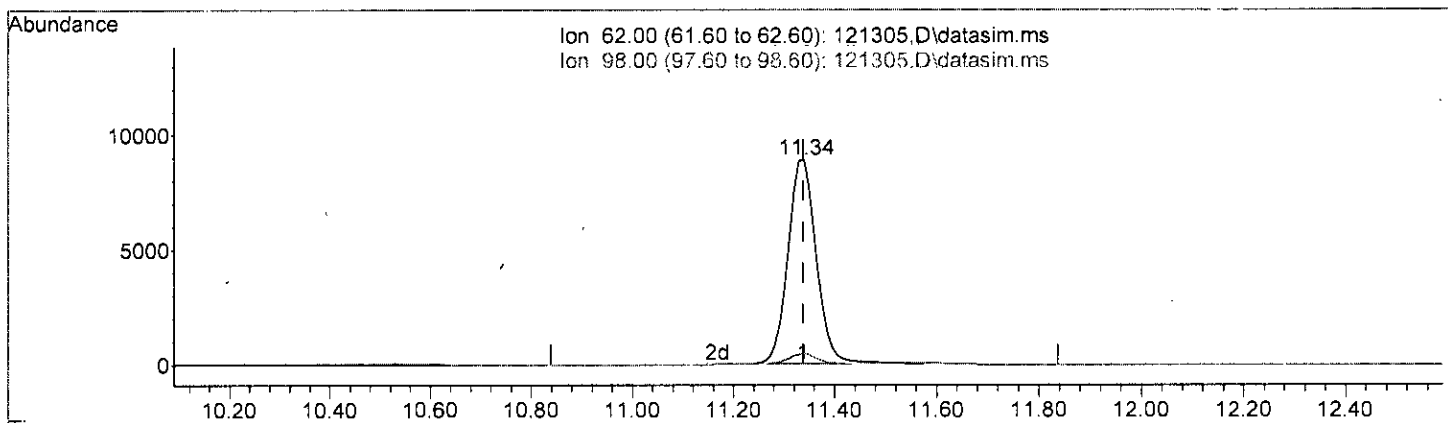
(34) 1,2-Dichloroethane (EDC) (TMP)			
11.339min (+ 0.000)	2.874	ppbv	
response	35848		
Ion	Exp%	Act%	
62.00	100.00	100.00	
98.00	5.30	5.25	
0.00	0.00	0.00	
0.00	0.00	0.00	

*h/calc*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121305.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.339min (+ 0.000) 2.738 ppbv m

response	34175		
Ion	Exp%	Act%	
62.00	100.00	100.00	
98.00	5.30	5.25	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: bat*

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	48772	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	210038	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	195417	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	139264	10.283	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 102.80%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	19633	3.050	ppbv	91
3) Dichlorodifluoromethane	3.48	85	54896	2.730	ppbv	97
4] Chloromethane	3.73	50	25235m	2.749	ppbv	
5) F-114	3.84	85	56858	2.764	ppbv	98
6] Vinyl chloride	4.09	62	22739	2.519	ppbv	98
7] 1,3-Butadiene	4.25	54	13669	2.305	ppbv #	84
8) Butane	4.36	43	28189	2.648	ppbv	94
9) Bromomethane	4.60	94	22613	2.510	ppbv	95
10] Chloroethane	4.84	64	8796m	2.756	ppbv	
11] Vinyl bromide	5.30	106	22887	2.916	ppbv	99
12) Ethanol	4.96	45	6954	2.150	ppbv	94
13] Acrolein	5.41	56	7993m	2.248	ppbv	
14) Pentane	6.25	43	31121	2.593	ppbv	98
15) Trichlorofluoromethane	5.84	101	63824	2.737	ppbv	98
16) Acetone	5.53	58	8815	2.544	ppbv	97
17) 2-Propanol	5.78	45	36803	2.437	ppbv #	95
18] 1,1-Dichloroethene	6.63	96	19473	2.427	ppbv	97
19] trans-1,2-Dichloroethene	8.07	96	18998	2.438	ppbv #	82
20) Methylene chloride	6.80	84	19022	2.637	ppbv	96
21) t-Butyl alcohol (TBA)	6.57	59	34079	2.619	ppbv #	69
22) 3-Chloropropene	6.94	41	29418	2.933	ppbv	94
23) CFC-113	7.15	101	45715	2.702	ppbv	96
24) Carbon disulfide	7.25	76	66403	2.635	ppbv	93
25) Methyl t-butyl ether (...)	8.41	73	40452	2.415	ppbv	100
26) Vinyl acetate	8.54	43	48882m	2.637	ppbv	
27] 1,1-Dichloroethane	8.36	63	44085	2.704	ppbv	99
28] cis-1,2-Dichloroethene	9.64	96	19643	2.383	ppbv	98
29) Hexane	10.01	57	23806	2.360	ppbv	80
30] Chloroform	10.08	83	51461	2.749	ppbv	97
31) Ethyl acetate	9.92	43	49154m	2.660	ppbv	
32) Tetrahydrofuran	10.75	42	21568	2.444	ppbv	94
33) 2-Butanone (MEK)	8.91	72	7553m	2.502	ppbv	
34] 1,2-Dichloroethane (EDC)	11.34	62	34175m	2.738	ppbv	

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35] 1,1,1-Trichloroethane	11.81	97	46080	2.826	ppbv	95
36] Carbon tetrachloride	12.86	117	47811	2.783	ppbv	96
37] Benzene	12.61	78	64922	2.542	ppbv	96
38] Cyclohexane	13.07	84	15411	2.312	ppbv	92
40] 1,2-Dichloropropane	13.80	63	31473	2.768	ppbv	96
41] 1,4-Dioxane	14.09	88	11723	2.424	ppbv	79
42] 2,2,4-Trimethylpentane	14.24	57	85543	2.548	ppbv #	81
43] Methyl methacrylate	14.36	41	28082	2.755	ppbv	95
44] Heptane	14.56	43	35509	2.548	ppbv	98
45] Bromodichloromethane	14.04	83	53462	2.996	ppbv	99
46] Trichloroethene	14.14	95	32398	2.601	ppbv	92
47] cis-1,3-Dichloropropene	15.20	75	34170	2.717	ppbv	91
48] 4-Methyl-2-pentanone	15.23	100	2183	2.349	ppbv #	5
49] trans-1,3-Dichloropropene	15.78	75	32347	2.735	ppbv	85
50] Toluene	16.31	92	37827	2.547	ppbv	98
51] 1,1,2-Trichloroethane	16.00	83	31415	2.910	ppbv	90
52] 2-Hexanone	16.56	43	50262	2.828	ppbv	92
53] Tetrachloroethene	17.52	164	27970	2.719	ppbv	93
54] Dibromochloromethane	16.76	129	52290	2.892	ppbv	99
55] 1,2-Dibromoethane (EDB)	17.04	107	44020	2.762	ppbv	99
57] Chlorobenzene	18.19	112	55032	2.558	ppbv	98
58] Ethylbenzene	18.53	91	81617	2.334	ppbv	96
59] 1,1,2,2-Tetrachloroethane	19.11	83	72646	2.804	ppbv	91
60] Nonane	19.30	43	48913	2.552	ppbv	93
61] Isopropylbenzene	19.70	105	90352	2.580	ppbv	99
62] 2-Chlorotoluene	20.17	126	22023	2.515	ppbv	83
63] Propylbenzene	20.17	91	164519	2.557	ppbv	97
64] 4-Ethyltoluene	20.32	105	72136	2.291	ppbv	99
65] m,p-Xylene	18.70	106	58043	4.690	ppbv	96
66] o-Xylene	19.15	106	28807	2.398	ppbv	97
67] Styrene	19.05	104	36799	2.299	ppbv	97
68] Bromoform	18.80	173	55733	2.773	ppbv	99
70] Benzyl chloride	20.95	91	59748	2.638	ppbv	100
71] 1,3,5-Trimethylbenzene	20.39	105	72194	2.548	ppbv	93
72] 1,2,4-Trimethylbenzene	20.80	105	55400	2.125	ppbv	99
73] 1,3-Dichlorobenzene	20.98	146	51703	2.615	ppbv	98
74] 1,4-Dichlorobenzene	21.04	146	46775	2.528	ppbv	85
75] 1,2-Dichlorobenzene	21.41	146	52276	2.612	ppbv	92
76] 1,2,4-Trichlorobenzene	23.64	180	23941	1.974	ppbv	97
77] Naphthalene	23.84	128	29984	1.954	ppbv	97
78] Hexachlorobutadiene	24.44	225	53835	2.637	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS7\12-13-22\  
Data File : 121305.D  
Acq Dn : 13 Dec 2022 3:24 pm  
Operator : bat  
Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
Misc : Cal line  
ALS Vial : 5 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M

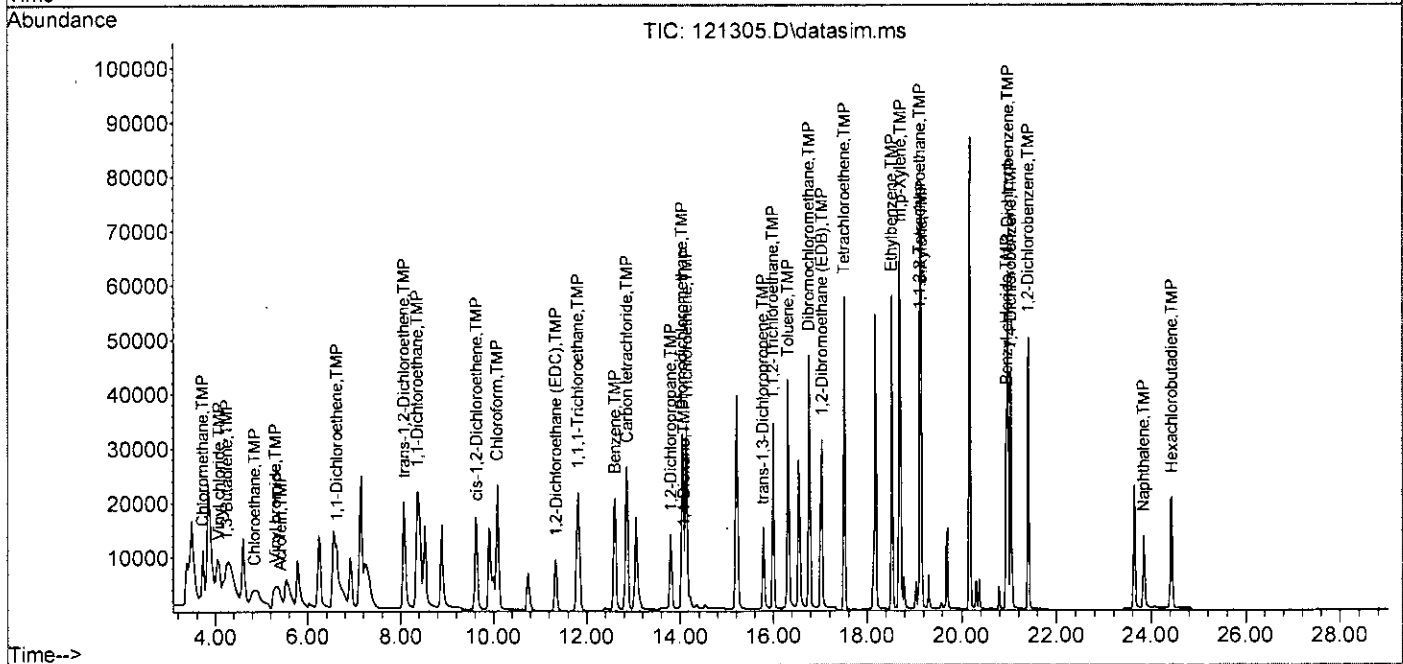
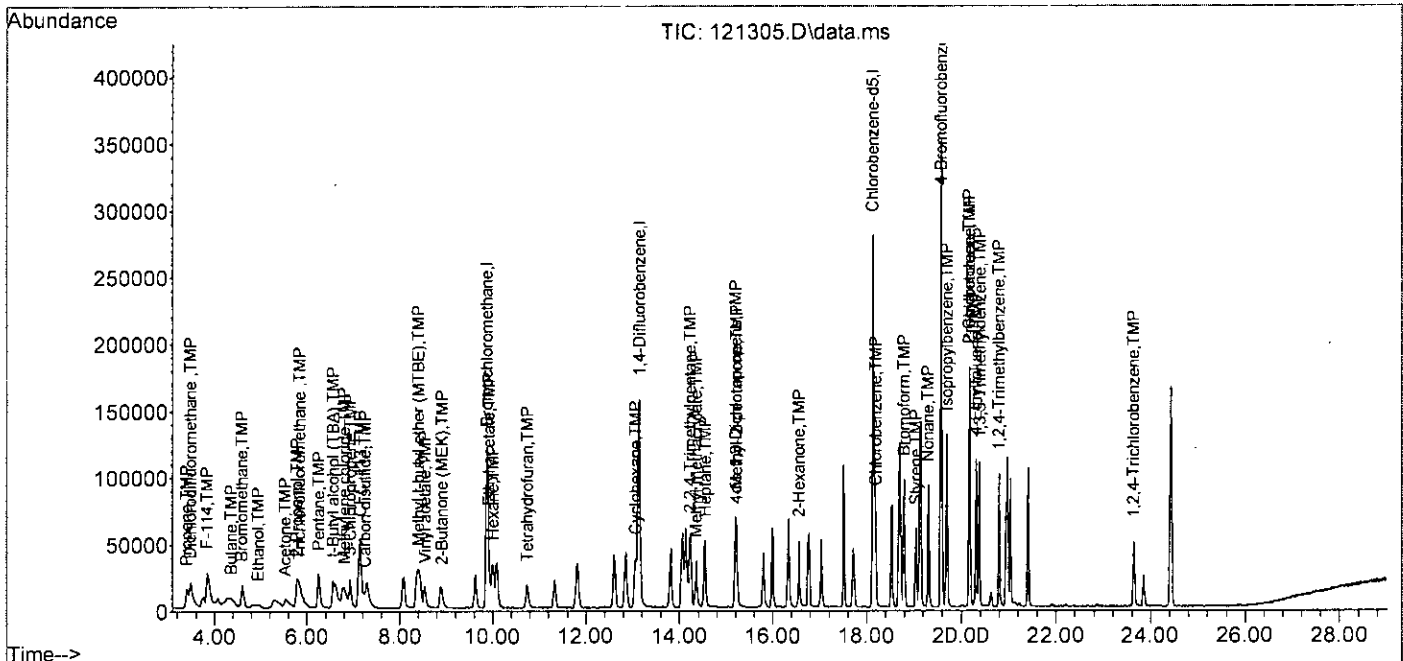
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
(#) = qualifier out of range (m) = manual integration (+) = signals summed						



Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	81	0.00
2 TMP	Propene	2.500	3.050	-22.0	92	0.00
3 TMP	Dichlorodifluoromethane	2.500	2.730	-9.2	84	0.00
4 TMP	Chloromethane	2.500	2.749	-10.0	89	0.00
5 TMP	F-114	2.500	2.764	-10.6	90	-0.04
6 TMP	Vinyl chloride	2.500	2.519	-0.8	83	0.00
7 TMP	1,3-Butadiene	2.500	2.305	7.8	77	-0.04
8 TMP	Butane	2.500	2.648	-5.9	81	0.04
9 TMP	Bromomethane	2.500	2.510	-0.4	81	0.00
10 TMP	Chloroethane	2.500	2.756	-10.2	84	0.00
11 TMP	Vinyl bromide	2.500	2.916	-16.6	90	-0.02
12 TMP	Ethanol	2.500	2.150	14.0	64	0.00
13 TMP	Acrolein	2.500	2.248	10.1	81	0.00
14 TMP	Pentane	2.500	2.593	-3.7	79	0.00
15 -TMP	Trichlorofluoromethane	2.500	2.737	-9.5	82	0.00
16 TMP	Acetone	2.500	2.544	-1.8	75	-0.04
17 TMP	2-Propanol	2.500	2.437	2.5	76	0.00
18 TMP	1,1-Dichloroethene	2.500	2.427	2.9	80	0.00
19 TMP	trans-1,2-Dichloroethene	2.500	2.438	2.5	78	-0.03
20 TMP	Methylene chloride	2.500	2.637	-5.5	78	0.00
21 TMP	t-Butyl alcohol (TBA)	2.500	2.619	-4.8	86	0.00
22 TMP	3-Chloropropene	2.500	2.933	-17.3	94	0.00
23 TMP	CFC-113	2.500	2.702	-8.1	81	0.00
24 TMP	Carbon disulfide	2.500	2.635	-5.4	75	-0.03
25 TMP	Methyl t-butyl ether (MTBE)	2.500	2.415	3.4	73	-0.03
26 TMP	Vinyl acetate	2.500	2.637	-5.5	80	0.00
27 TMP	1,1-Dichloroethane	2.500	2.704	-8.2	84	0.00
28 TMP	cis-1,2-Dichloroethene	2.500	2.383	4.7	77	0.00
29 TMP	Hexane	2.500	2.360	5.6	75	0.00
30 TMP	Chloroform	2.500	2.749	-10.0	84	-0.02
31 TMP	Ethyl acetate	2.500	2.660	-6.4	84	0.00
32 TMP	Tetrahydrofuran	2.500	2.444	2.2	81	0.00
33 TMP	2-Butanone (MEK)	2.500	2.502	-0.1	75	0.00
34 TMP	1,2-Dichloroethane (EDC)	2.500	2.738	-9.5	85	0.00
35 TMP	1,1,1-Trichloroethane	2.500	2.826	-13.0	83	-0.01
36 TMP	Carbon tetrachloride	2.500	2.783	-11.3	84	0.00
37 TMP	Benzene	2.500	2.542	-1.7	78	0.00
38 TMP	Cyclohexane	2.500	2.312	7.5	71	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I	1,4-Difluorobenzene	10.000	10.000	0.0	76	0.00
40 TMP	1,2-Dichloropropane	2.500	2.768	-10.7	82	0.00
41 TMP	1,4-Dioxane	2.500	2.424	3.0	77	0.00
42 TMP	2,2,4-Trimethylpentane	2.500	2.548	-1.9	74	0.00
43 TMP	Methyl methacrylate	2.500	2.755	-10.2	77	0.00
44 TMP	Heptane	2.500	2.548	-1.9	74	0.00
45 TMP	Bromodichloromethane	2.500	2.996	-19.8	84	0.00
46 TMP	Trichloroethene	2.500	2.601	-4.0	81	0.00
47 TMP	cis-1,3-Dichloropropene	2.500	2.717	-8.7	75	0.00
48 TMP	4-Methyl-2-pentanone	2.500	2.349	6.0	69	0.00
49 TMP	trans-1,3-Dichloropropene	2.500	2.735	-9.4	77	0.00
50 TMP	Toluene	2.500	2.547	-1.9	74	0.00
51 TMP	1,1,2-Trichloroethane	2.500	2.910	-16.4	83	0.00
52 TMP	2-Hexanone	2.500	2.828	-13.1	84	0.00
53 TMP	Tetrachloroethene	2.500	2.719	-8.8	79	0.00
54 TMP	Dibromochloromethane	2.500	2.892	-15.7	83	0.00
55 TMP	1,2-Dibromoethane (EDB)	2.500	2.762	-10.5	79	0.00
56 I	Chlorobenzene-d5	10.000	10.000	0.0	80	0.00
57 TMP	Chlorobenzene	2.500	2.558	-2.3	79	0.00
58 TMP	Ethylbenzene	2.500	2.334	6.6	71	0.00
59 TMP	1,1,2,2-Tetrachloroethane	2.500	2.804	-12.2	84	-0.02
60 TMP	Nonane	2.500	2.552	-2.1	76	0.00
61 TMP	Isopropylbenzene	2.500	2.580	-3.2	74	0.00
62 TMP	2-Chlorotoluene	2.500	2.515	-0.6	74	0.00
63 TMP	Propylbenzene	2.500	2.557	-2.3	73	-0.01
64 TMP	4-Ethyltoluene	2.500	2.291	8.4	71	0.00
65 TMP	m,p-Xylene	5.000	4.690	6.2	71	0.00
66 TMP	o-Xylene	2.500	2.398	4.1	72	0.00
67 TMP	Styrene	2.500	2.299	8.0	70	0.00
68 TMP	Bromoform	2.500	2.773	-10.9	83	0.00
69 S	4-Bromofluorobenzene	10.000	10.283	-2.8	77	0.00
70 TMP	Benzyl chloride	2.500	2.638	-5.5	80	0.00
71 TMP	1,3,5-Trimethylbenzene	2.500	2.548	-1.9	72	0.00
72 TMP	1,2,4-Trimethylbenzene	2.500	2.125	15.0	67	0.00
73 TMP	1,3-Dichlorobenzene	2.500	2.615	-4.6	77	0.00
74 TMP	1,4-Dichlorobenzene	2.500	2.528	-1.1	76	-0.01
75 TMP	1,2-Dichlorobenzene	2.500	2.612	-4.5	77	0.00
76 TMP	1,2,4-Trichlorobenzene	2.500	1.974	21.0	72	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
77 TMP Naphthalene	2.500	1.954	21.8	69	0.00
78 TMP Hexachlorobutadiene	2.500	2.637	-5.5	83	0.00

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	81	0.00
2 TMP	Propene	1.556	1.610	-3.5	92	0.00
3 TMP	Dichlorodifluoromethane	4.123	4.502	-9.2	84	0.00
4 TMP	Chloromethane	1.882	2.070	-10.0	89	0.00
5 TMP	F-114	4.217	4.663	-10.6	90	-0.04
6 TMP	Vinyl chloride	1.851	1.865	-0.8	83	0.00
7 TMP	1,3-Butadiene	1.216	1.121	7.8	77	-0.04
8 TMP	Butane	2.183	2.312	-5.9	81	0.04
9 TMP	Bromomethane	1.847	1.855	-0.4	81	0.00
10 TMP	Chloroethane	0.655	0.721	-10.1	84	0.00
11 TMP	Vinyl bromide	1.609	1.877	-16.7	90	-0.02
12 TMP	Ethanol	0.663	0.570	14.0	64	0.00
13 TMP	Acrolein	0.729	0.656	10.0	81	0.00
14 TMP	Pentane	2.461	2.552	-3.7	79	0.00
15 TMP	Trichlorofluoromethane	4.781	5.234	-9.5	82	0.00
16 TMP	Acetone	0.710	0.723	-1.8	75	-0.04
17 TMP	2-Propanol	3.096	3.018	2.5	76	0.00
18 TMP	1,1-Dichloroethene	1.645	1.597	2.9	80	0.00
19 TMP	trans-1,2-Dichloroethene	1.598	1.558	2.5	78	-0.03
20 TMP	Methylene chloride	1.479	1.560	-5.5	78	0.00
21 TMP	t-Butyl alcohol (TBA)	2.668	2.795	-4.8	86	0.00
22 TMP	3-Chloropropene	2.056	2.413	-17.4	94	0.00
23 TMP	CFC-113	3.469	3.749	-8.1	81	0.00
24 TMP	Carbon disulfide	5.167	5.446	-5.4	75	-0.03
25 TMP	Methyl t-butyl ether (MTBE)	3.434	3.318	3.4	73	-0.03
26 TMP	Vinyl acetate	3.801	4.009	-5.5	80	0.00
27 TMP	1,1-Dichloroethane	3.342	3.616	-8.2	84	0.00
28 TMP	cis-1,2-Dichloroethene	1.690	1.611	4.7	77	0.00
29 TMP	Hexane	2.068	1.952	5.6	75	0.00
30 TMP	Chloroform	4.060	4.221	-4.0	84	-0.02
31 TMP	Ethyl acetate	3.789	4.031	-6.4	84	0.00
32 TMP	Tetrahydrofuran	1.809	1.769	2.2	81	0.00
33 TMP	2-Butanone (MEK)	0.619	0.619	0.0	75	0.00
34 TMP	1,2-Dichloroethane (EDC)	2.687	2.803	-4.3	85	0.00
35 TMP	1,1,1-Trichloroethane	3.343	3.779	-13.0	83	-0.01
36 TMP	Carbon tetrachloride	3.523	3.921	-11.3	84	0.00
37 TMP	Benzene	5.688	5.325	6.4	78	0.00
38 TMP	Cyclohexane	1.367	1.264	7.5	71	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I	1,4-Difluorobenzene	1.000	1.000	0.0	76	0.00
40 TMP	1,2-Dichloropropane	0.541	0.599	-10.7	82	0.00
41 TMP	1,4-Dioxane	0.230	0.223	3.0	77	0.00
42 TMP	2,2,4-Trimethylpentane	1.598	1.629	-1.9	74	0.00
43 TMP	Methyl methacrylate	0.485	0.535	-10.3	77	0.00
44 TMP	Heptane	0.663	0.676	-2.0	74	0.00
45 TMP	Bromodichloromethane	0.850	1.018	-19.8	84	0.00
46 TMP	Trichloroethene	0.593	0.617	-4.0	81	0.00
47 TMP	cis-1,3-Dichloropropene	0.599	0.651	-8.7	75	0.00
48 TMP	4-Methyl-2-pentanone	0.044	0.042	4.5	69	0.00
49 TMP	trans-1,3-Dichloropropene	0.563	0.616	-9.4	77	0.00
50 TMP	Toluene	0.707	0.720	-1.8	74	0.00
51 TMP	1,1,2-Trichloroethane	0.550	0.598	-8.7	83	0.00
52 TMP	2-Hexanone	0.846	0.957	-13.1	84	0.00
53 TMP	Tetrachloroethene	0.490	0.533	-8.8	79	0.00
54 TMP	Dibromochloromethane	0.861	0.996	-15.7	83	0.00
55 TMP	1,2-Dibromoethane (EDB)	0.824	0.838	-1.7	79	0.00
56 I	Chlorobenzene-d5	1.000	1.000	0.0	80	0.00
57 TMP	Chlorobenzene	1.101	1.126	-2.3	79	0.00
58 TMP	Ethylbenzene	1.968	1.671	15.1	71	0.00
59 TMP	1,1,2,2-Tetrachloroethane	1.394	1.487	-6.7	84	-0.02
60 TMP	Nonane	0.981	1.001	-2.0	76	0.00
61 TMP	Isopropylbenzene	1.792	1.849	-3.2	74	0.00
62 TMP	2-Chlorotoluene	0.448	0.451	-0.7	74	0.00
63 TMP	Propylbenzene	3.292	3.368	-2.3	73	-0.01
64 TMP	4-Ethyltoluene	1.611	1.477	8.3	71	0.00
65 TMP	m,p-Xylene	0.633	0.594	6.2	71	0.00
66 TMP	o-Xylene	0.615	0.590	4.1	72	0.00
67 TMP	Styrene	0.819	0.753	8.1	70	0.00
68 TMP	Bromoform	1.028	1.141	-11.0	83	0.00
69 S	4-Bromofluorobenzene	0.693	0.713	-2.9	77	0.00
70 TMP	Benzyl chloride	0.987	1.223	-23.9	80	0.00
71 TMP	1,3,5-Trimethylbenzene	1.450	1.478	-1.9	72	0.00
72 TMP	1,2,4-Trimethylbenzene	1.247	1.134	9.1	67	0.00
73 TMP	1,3-Dichlorobenzene	1.012	1.058	-4.5	77	0.00
74 TMP	1,4-Dichlorobenzene	0.947	0.957	-1.1	76	-0.01
75 TMP	1,2-Dichlorobenzene	1.024	1.070	-4.5	77	0.00
76 TMP	1,2,4-Trichlorobenzene	0.626	0.490	21.7	72	0.00

**EPA TO-15**  
**Quality Assurance Data**

Spike Recovery and RPD Summary Report - WATER

Method : D:\GCMS7 Methods\1115TO15ss7.M (RTE Integrator)  
 Title : TO-15 SS method  
 Last Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration

Non-Spiked Sample: 121312.D

Spike Sample	Spike Duplicate Sample
-----	
File ID : 121305.D	121305.D
Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr	02-2958 lcs/ 2.5 ppbv 67-196a rr
Acq Time: 13 Dec 2022 3:24 pm	13 Dec 2022 3:24 pm
-----	

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits	
								RPD	% Rec
Propene	0.0	3	3	3	122	122	0	20	70-130
Dichlorodifluorometh	0.0	3	3	3	109	109	0	20	70-130
Chloromethane	0.0	3	3	3	110	110	0	20	70-130
F-114	0.0	3	3	3	111	111	0	20	70-130
Vinyl chloride	0.0	3	3	3	101	101	0	20	70-130
1,3-Butadiene	0.0	3	2	2	92	92	0	20	70-130
Butane	0.0	3	3	3	106	106	0	20	70-130
Bromomethane	0.0	3	3	3	100	100	0	20	70-130
Chloroethane	0.0	3	3	3	110	110	0	20	70-130
Vinyl bromide	0.0	3	3	3	117	117	0	20	70-130
Ethanol	0.0	3	2	2	86	86	0	20	70-130
Acrolein	0.0	3	2	2	90	90	0	20	70-130
Pentane	0.0	3	3	3	104	104	0	20	70-130
Trichlorofluorometha	0.0	3	3	3	109	109	0	20	70-130
Acetone	0.3	3	3	3	90	90	0	20	70-130
2-Propanol	0.0	3	2	2	96	96	0	20	70-130
1,1-Dichloroethene	0.0	3	2	2	97	97	0	20	70-130
trans-1,2-Dichloroet	0.0	3	2	2	98	98	0	20	70-130
Methylene chloride	0.1	3	3	3	103	103	0	20	70-130
t-Butyl alcohol (TBA	0.0	3	3	3	105	105	0	20	70-130
3-Chloropropene	0.0	3	3	3	117	117	0	20	70-130
CFC-113	0.0	3	3	3	108	108	0	20	70-130
Carbon disulfide	0.0	3	3	3	104	104	0	20	70-130
Methyl t-butyl ether	0.0	3	2	2	97	97	0	20	70-130
Vinyl acetate	0.0	3	3	3	105	105	0	20	70-130
1,1-Dichloroethane	0.0	3	3	3	108	108	0	20	70-130
cis-1,2-Dichloroethe	0.0	3	2	2	95	95	0	20	70-130
Hexane	0.0	3	2	2	94	94	0	20	70-130
Chloroform	0.0	3	3	3	110	110	0	20	70-130
Ethyl acetate	0.0	3	3	3	106	106	0	20	70-130
Tetrahydrofuran	0.0	3	2	2	98	98	0	20	70-130
2-Butanone (MEK)	0.0	3	3	3	100	100	0	20	70-130
1,2-Dichloroethane (	0.0	3	3	3	110	110	0	20	70-130
1,1,1-Trichloroethan	0.0	3	3	3	113	113	0	20	70-130
Carbon tetrachloride	0.0	3	3	3	111	111	0	20	70-130
Benzene	0.0	3	3	3	102	102	0	20	70-130



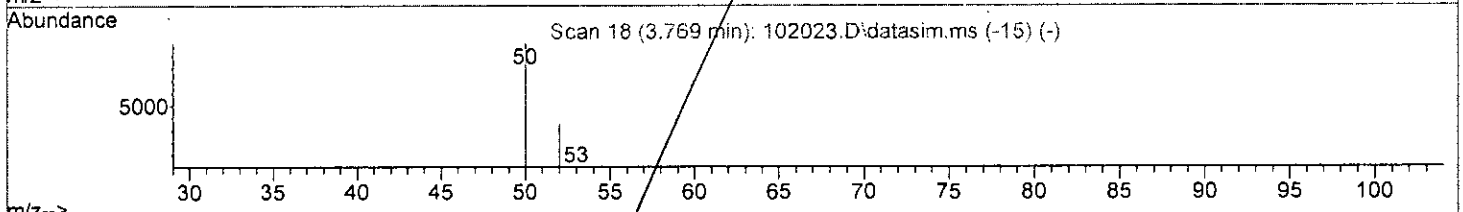
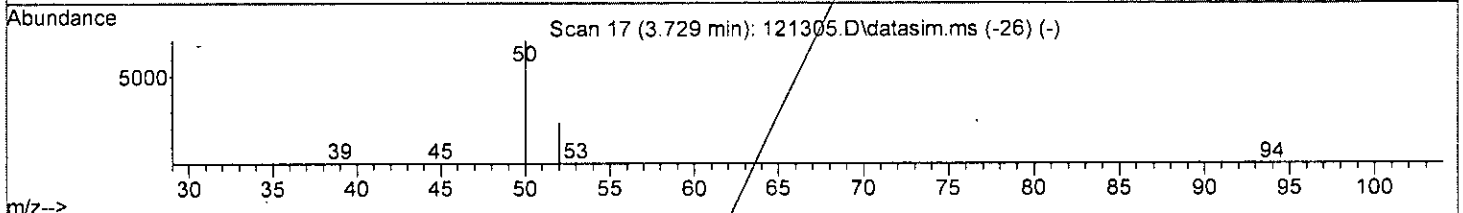
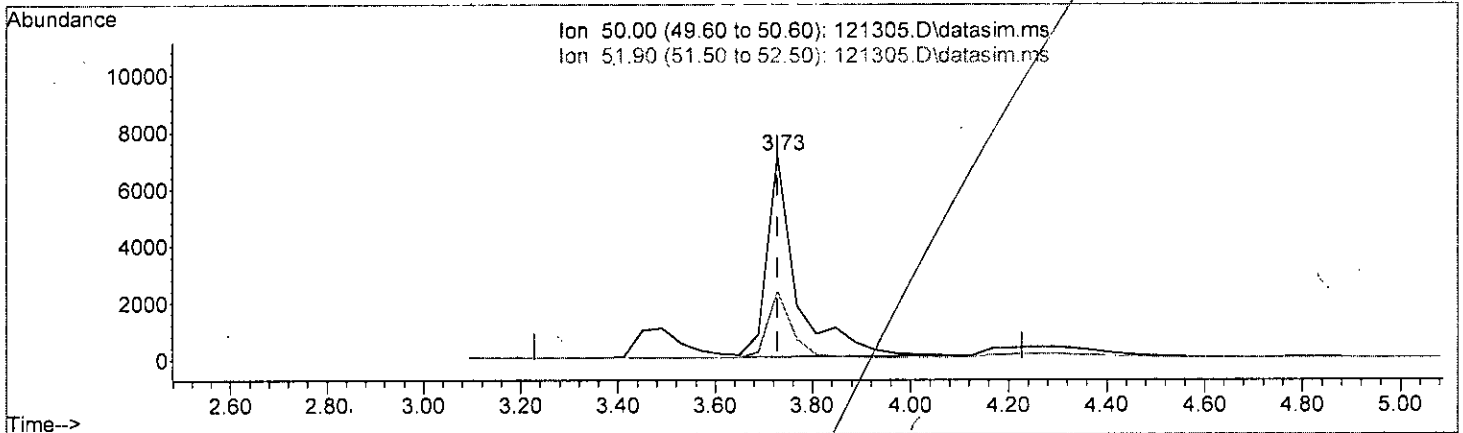
Cyclohexane	0.0	3	2	2	92	92	0	20	70-130
1,2-Dichloropropane	0.0	3	3	3	111	111	0	20	70-130
1,4-Dioxane	0.0	3	2	2	97	97	0	20	70-130
2,2,4-Trimethylpenta	0.0	3	3	3	102	102	0	20	70-130
Methyl methacrylate	0.0	3	3	3	110	110	0	20	70-130
Heptane	0.0	3	3	3	102	102	0	20	70-130
Bromodichloromethane	0.0	3	3	3	120	120	0	20	70-130
Trichloroethene	0.0	3	3	3	104	104	0	20	70-130
cis-1,3-Dichloroprop	0.0	3	3	3	109	109	0	20	70-130
4-Methyl-2-pentanone	0.0	3	2	2	94	94	0	20	70-130
trans-1,3-Dichloropr	0.0	3	3	3	109	109	0	20	70-130
Toluene	0.1	3	3	3	99	99	0	20	70-130
1,1,2-Trichloroethan	0.0	3	3	3	116	116	0	20	70-130
2-Hexanone	0.0	3	3	3	113	113	0	20	70-130
Tetrachloroethane	0.0	3	3	3	108	108	0	20	70-130
Dibromochloromethane	0.0	3	3	3	116	116	0	20	70-130
1,2-Dibromoethane (E	0.0	3	3	3	110	110	0	20	70-130
Chlorobenzene	0.0	3	3	3	102	102	0	20	70-130
Ethylbenzene	0.0	3	2	2	93	93	0	20	70-130
1,1,2,2-Tetrachloroe	0.0	3	3	3	112	112	0	20	70-130
Nonane	0.0	3	3	3	102	102	0	20	70-130
Isopropylbenzene	0.0	3	3	3	103	103	0	20	70-130
2-Chlorotoluene	0.0	3	3	3	101	101	0	20	70-130
Propylbenzene	0.0	3	2	3	102	102	0	20	70-130
4-Ethyltoluene	0.0	3	3	2	91	91	0	20	70-130
m,p-Xylene	0.0	5	5	5	94	94	0	20	70-130
o-Xylene	0.0	3	2	2	96	96	0	20	70-130
Styrene	0.0	3	2	2	92	92	0	20	70-130
Bromoform	0.0	3	3	3	111	111	0	20	70-130
Benzyl chloride	0.0	3	3	3	106	106	0	20	70-130
1,3,5-Trimethylbenze	0.0	3	3	3	102	102	0	20	70-130
1,2,4-Trimethylbenze	0.1	3	2	2	82	82	0	20	70-130
1,3-Dichlorobenzene	0.0	3	3	3	105	105	0	20	70-130
1,4-Dichlorobenzene	0.0	3	3	3	101	101	0	20	70-130
1,2-Dichlorobenzene	0.0	3	3	3	104	104	0	20	70-130
1,2,4-Trichlorobenze	0.0	3	2	2	79	79	0	20	70-130
Naphthalene	0.0	3	2	2	78	78	0	20	70-130
Hexachlorobutadiene	0.0	3	3	3	105	105	0	20	70-130

# - Fails Limit Check

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

(4) Chloromethane (TMP)  
 3.729min (+ 0.000) - 3.213 ppbv

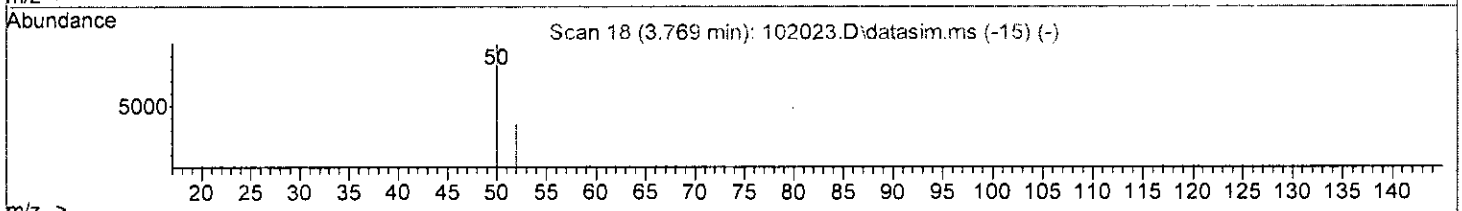
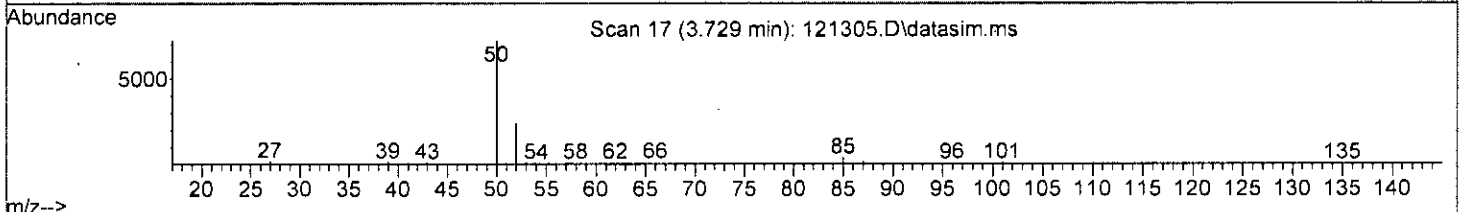
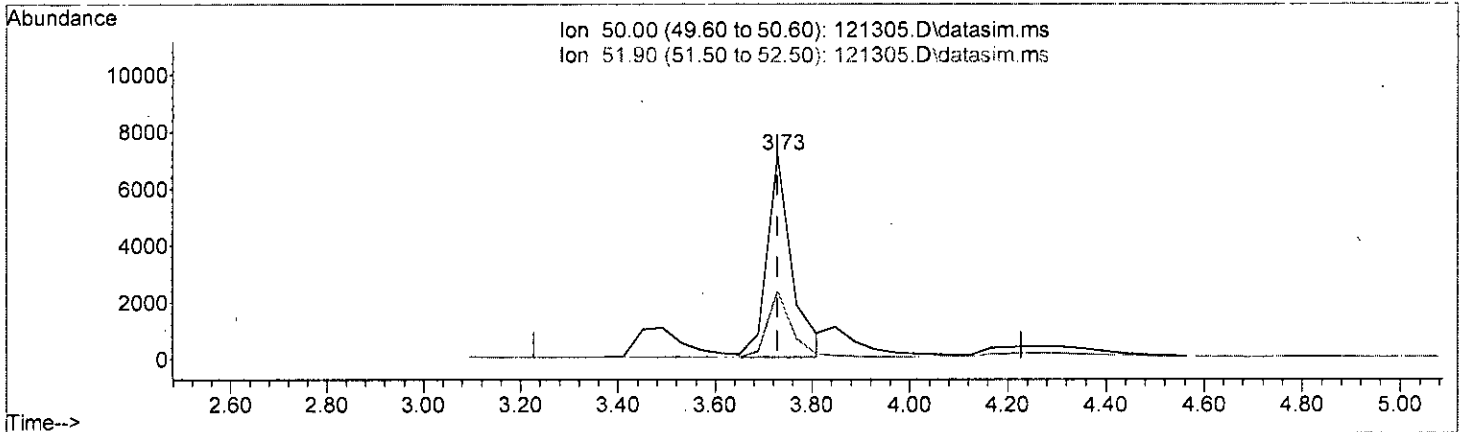
response	29495		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	32.84	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: h. raj...*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

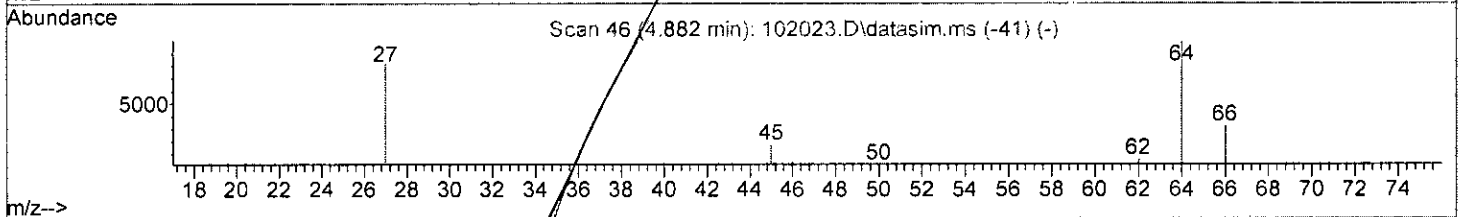
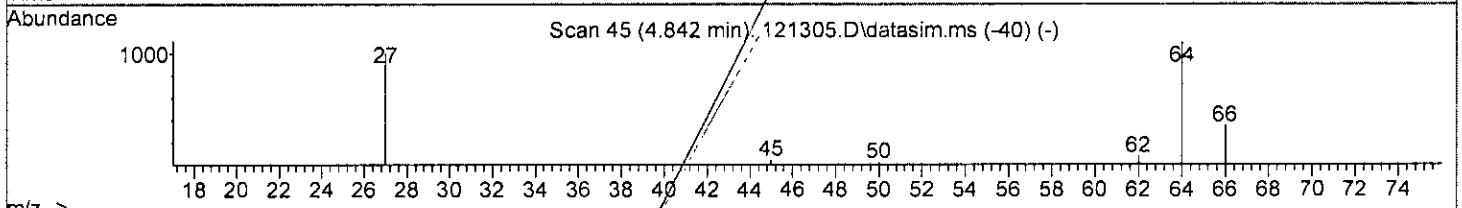
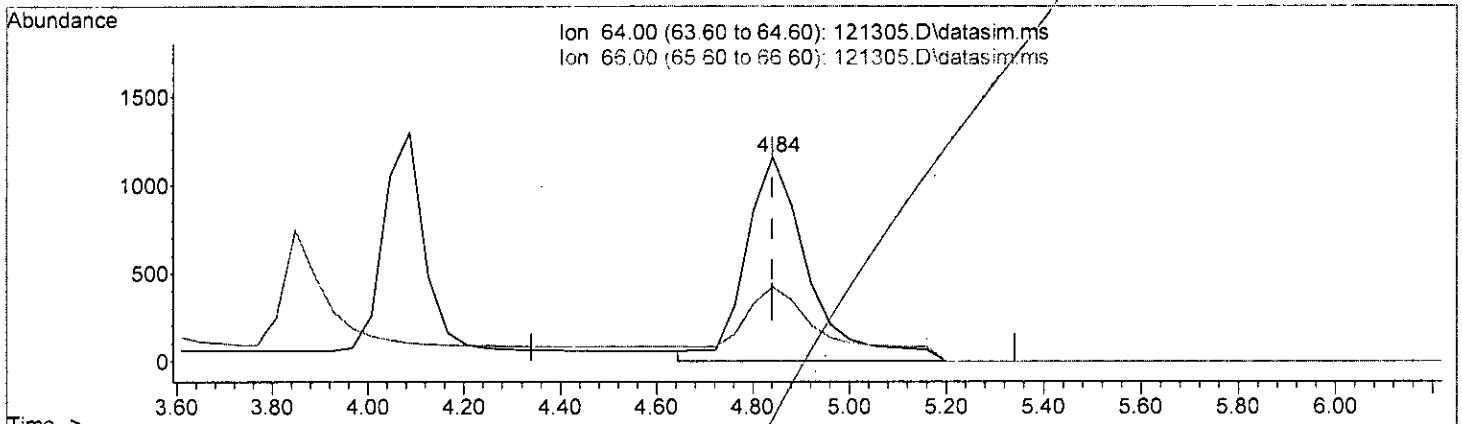
(4) Chloromethane (TMP)			
3.729min (+ 0.000) 2.749 ppbv m			
response	25235		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	33.21	
0.00	0.00	0.00	
0.00	0.00	0.00	

*h*  
*ca/14/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

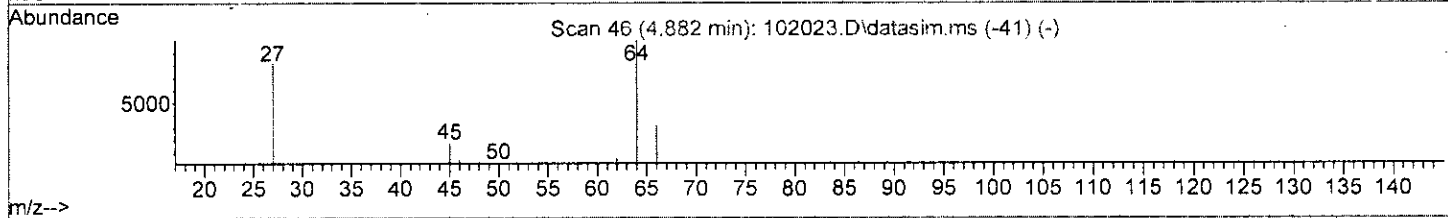
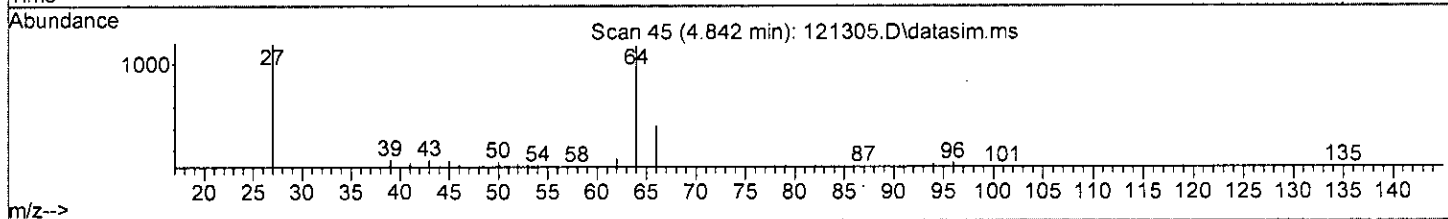
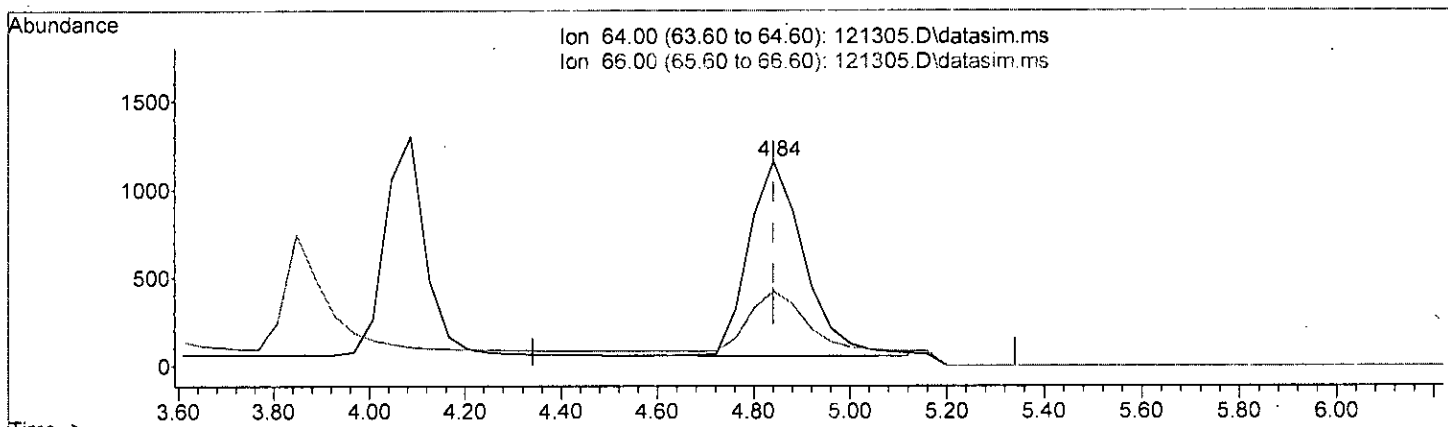
(10) Chloroethane (TMP)			
4.842min (-0.000) 3.188 ppbv			
response	10177		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	31.80	36.32	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: M. J. [unclear]*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121305.D\data.ms

(10) Chloroethane (TMP)

4.842min (-0.000) 2.756 ppbv m

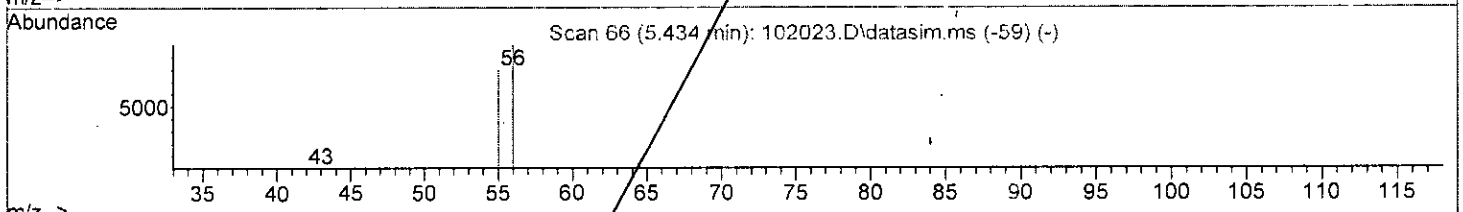
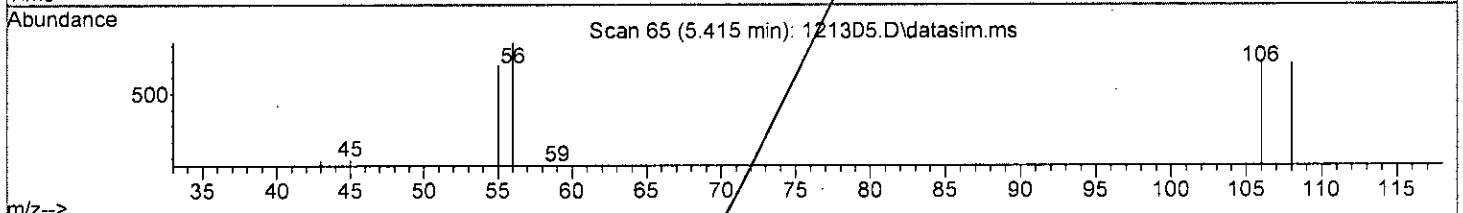
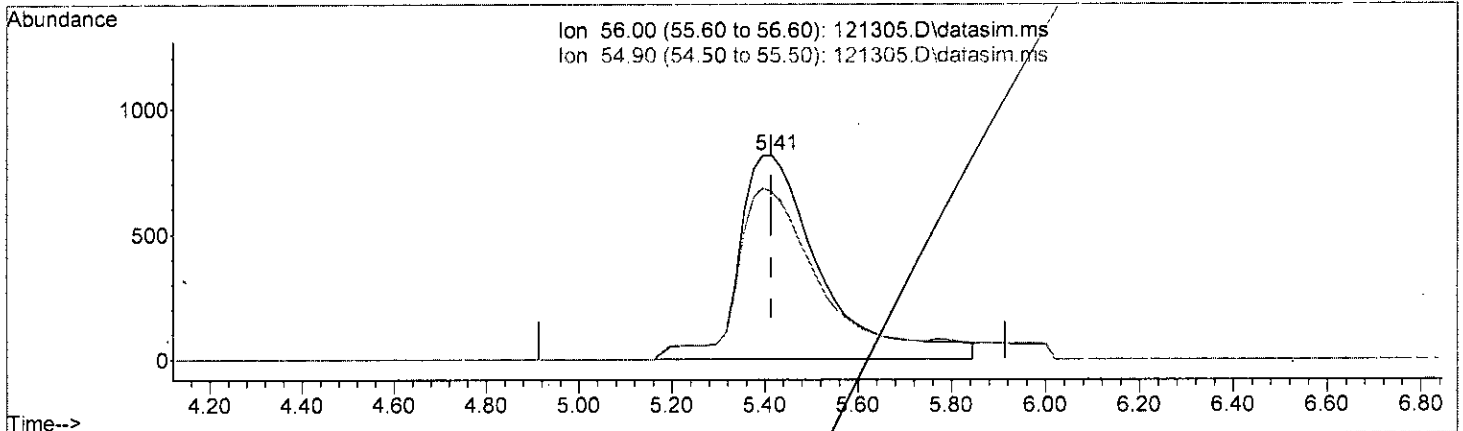
response	8796
Ion	Exp% Act%
64.00	100.00 100.00
66.00	31.80 36.32
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature: H. [unclear]*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121305.D\data.ms

(13) Acrolein (TMP)  
 5.415min (-0.000) 2.965 ppbv

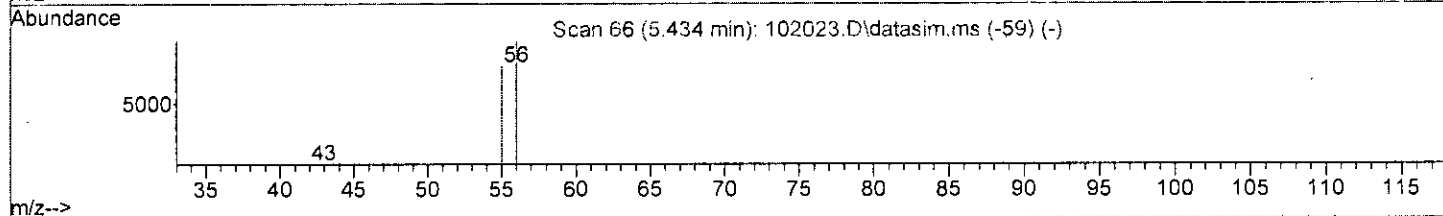
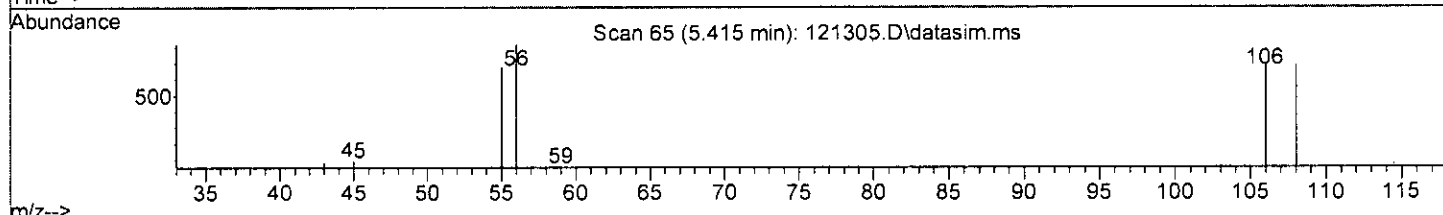
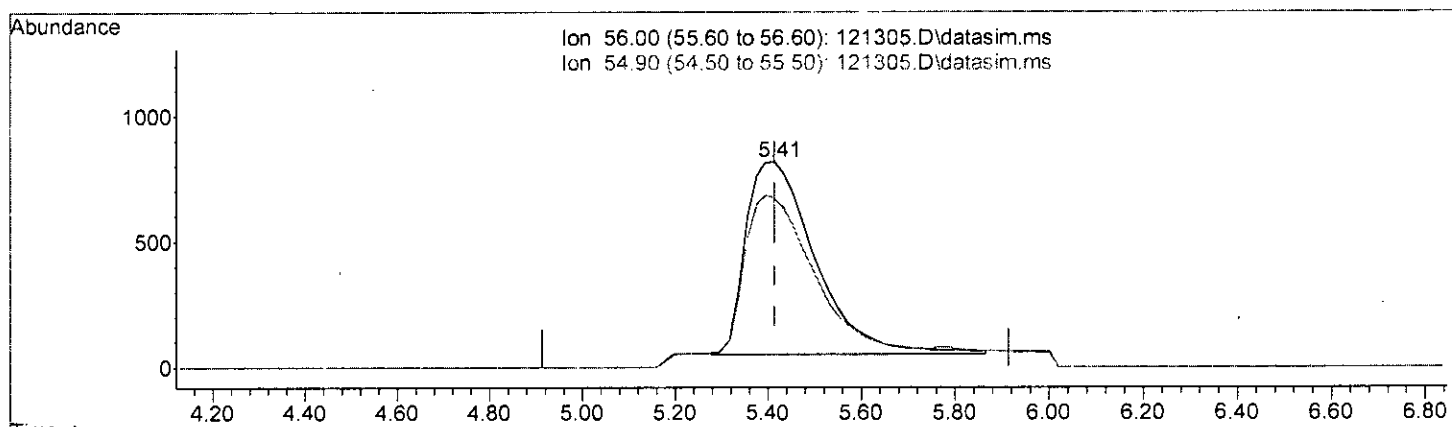
response	Ion	Exp%	Act%
10542	56.00	100.00	100.00
	54.90	81.00	66.67
	0.00	0.00	0.00
	0.00	0.00	0.00

*Handwritten signature: U. [unclear]*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

(13) Acrolein (TMP)

5.415min (-0.000) 2.248 ppbv m

response 7993

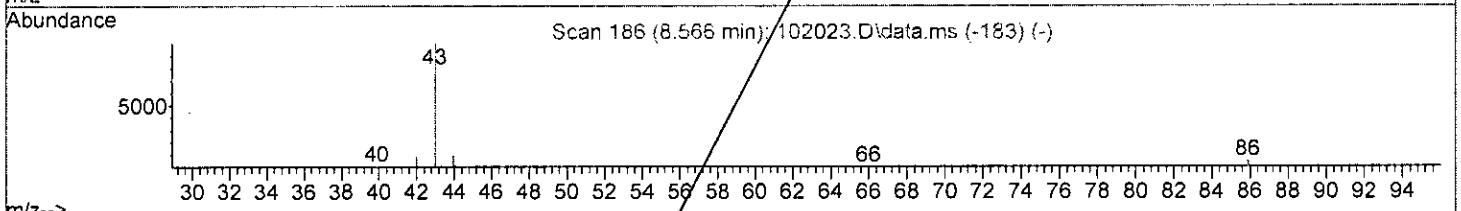
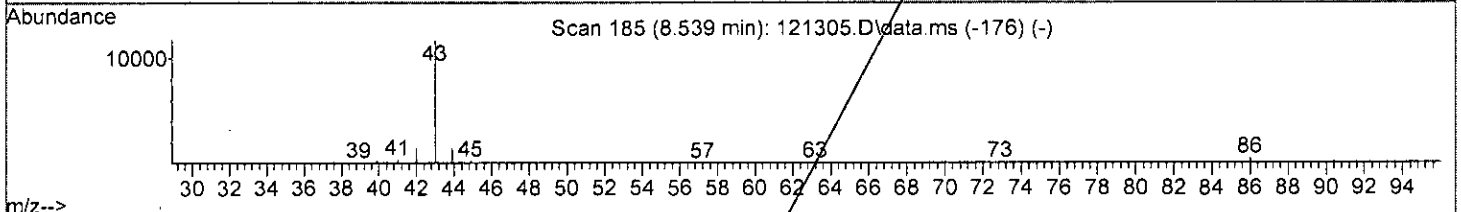
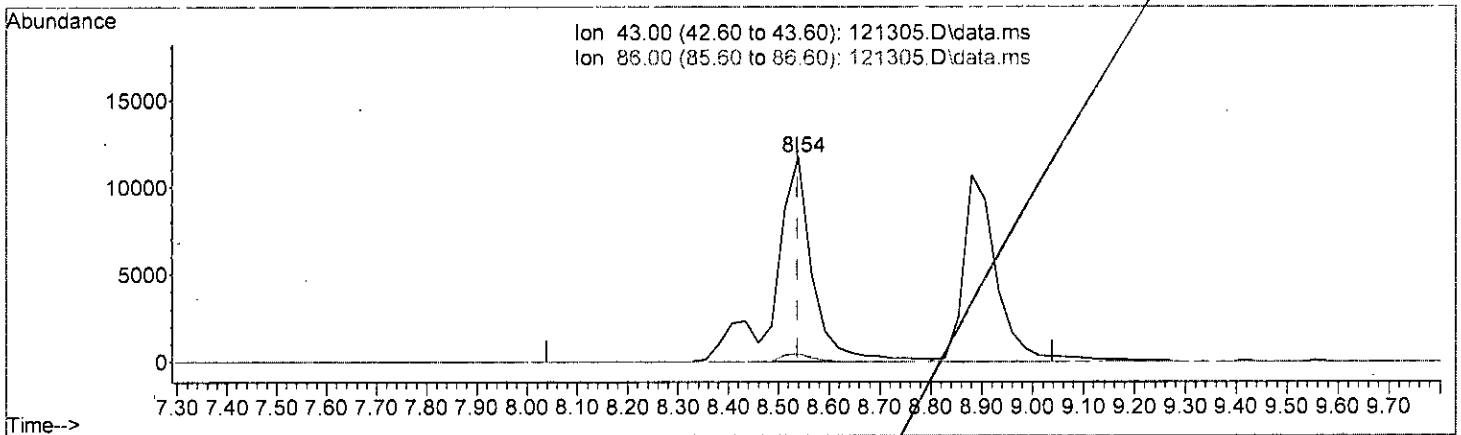
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	87.93
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: u 12/14/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

(26) Vinyl acetate (TMP)			
8.539min (+ 0.000)	3.255 ppbv		
response	60334		
Ion	Exp%	Act%	
43.00	100.00	100.00	
86.00	4.20	3.67	
0.00	0.00	0.00	
0.00	0.00	0.00	

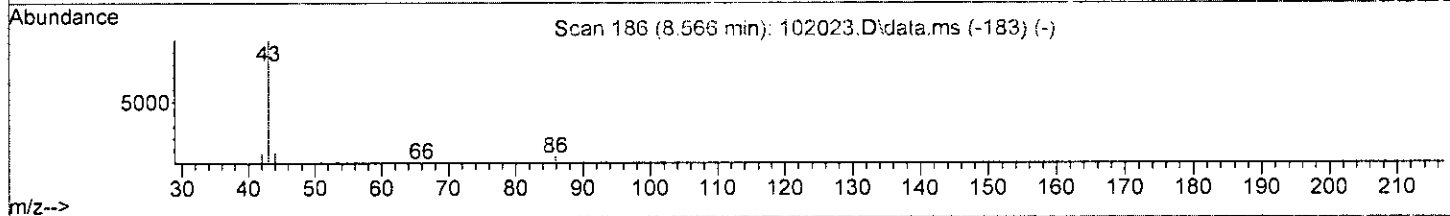
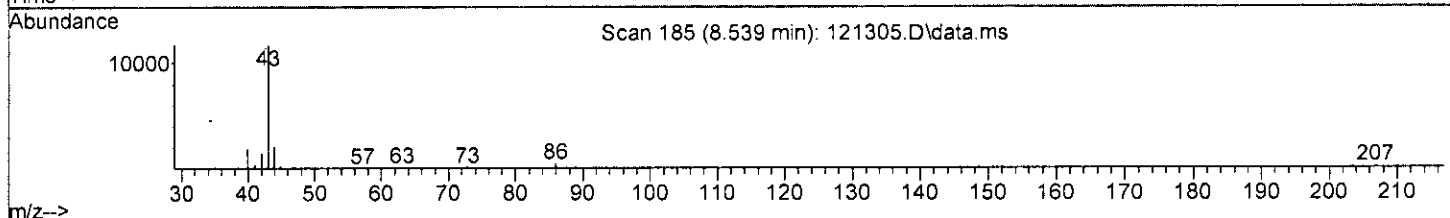
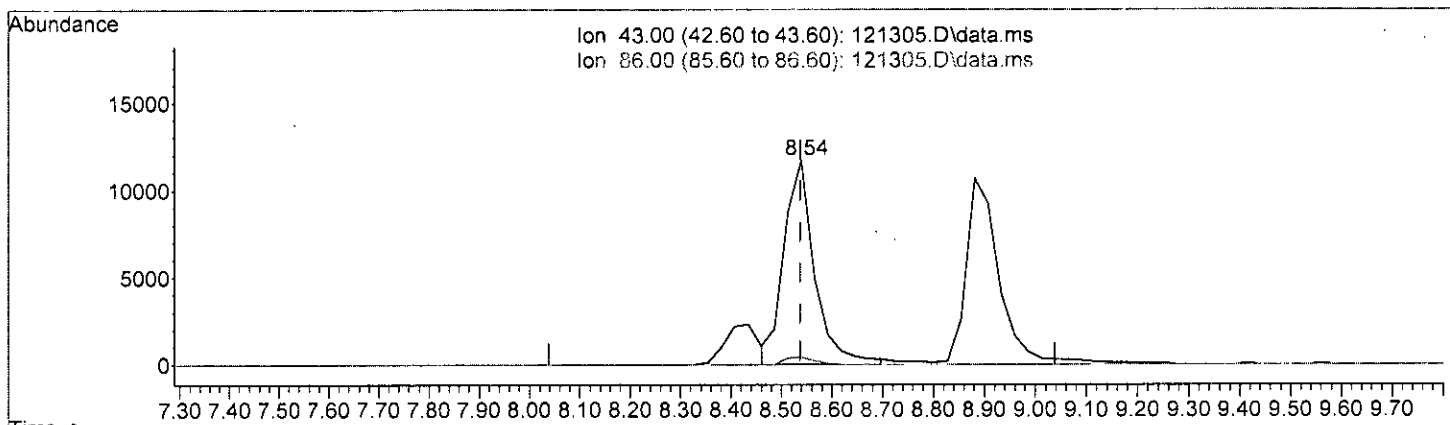
*Handwritten signature: u. [unclear]*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-29S8 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

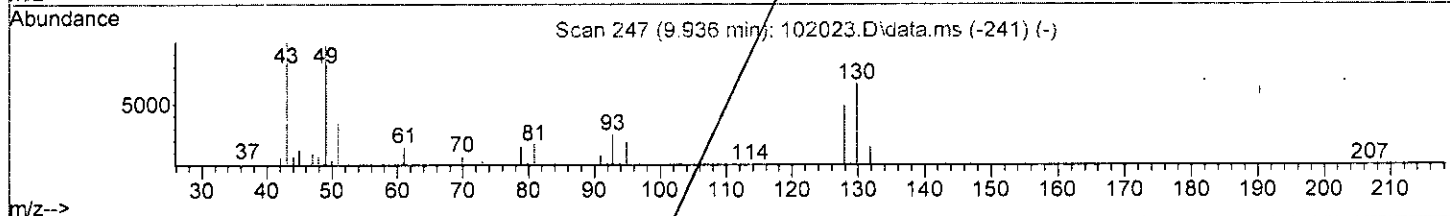
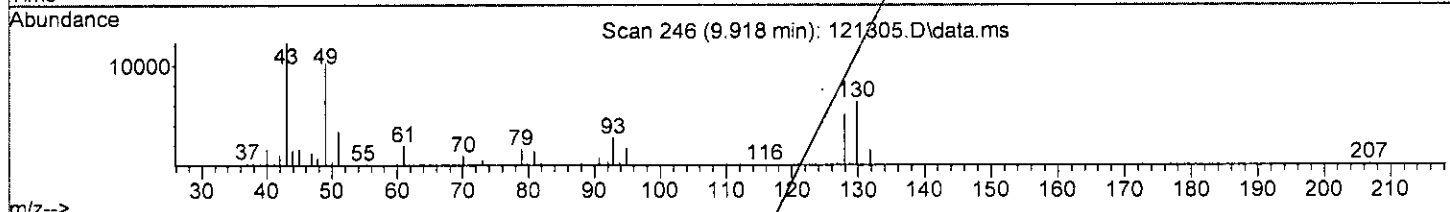
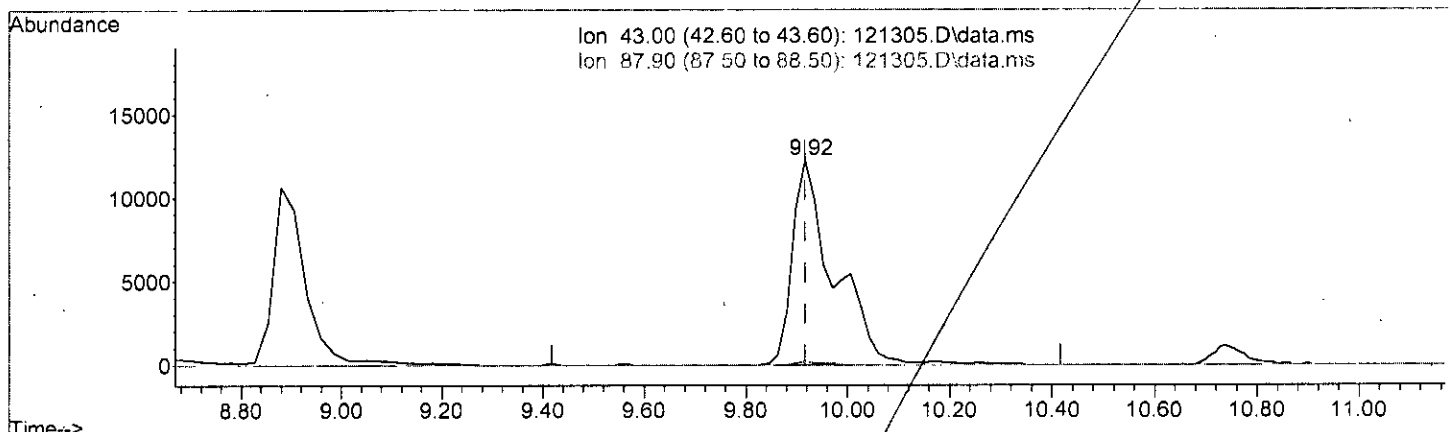
(26) Vinyl acetate (TMP)			
8.539min (+ 0.000)	2.637	ppbv	m
response	48882		
Ion	Exp%	Act%	
43.00	100.00	100.00	
86.00	4.20	3.67	
0.00	0.00	0.00	
0.00	0.00	0.00	

*W 12/14/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

(31) Ethyl acetate (TMP)

9.918min (-0.000) 3.680 ppbv

response 67989

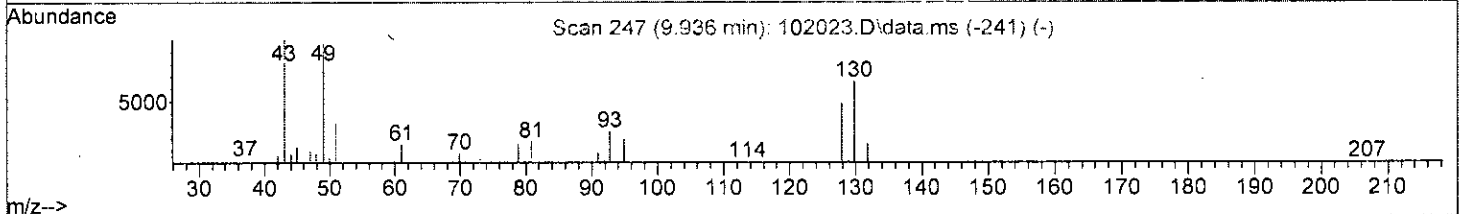
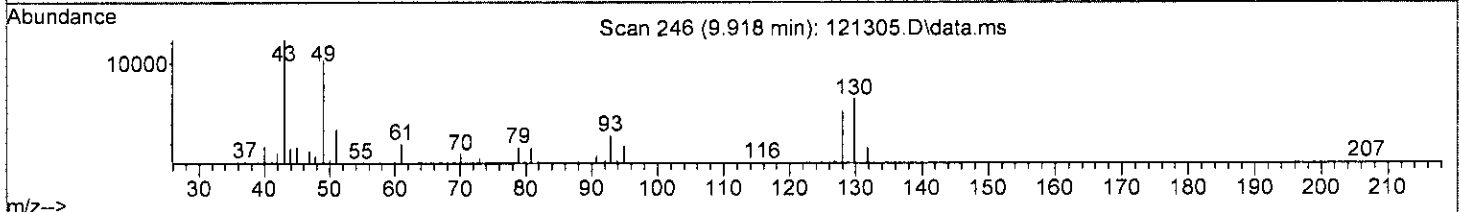
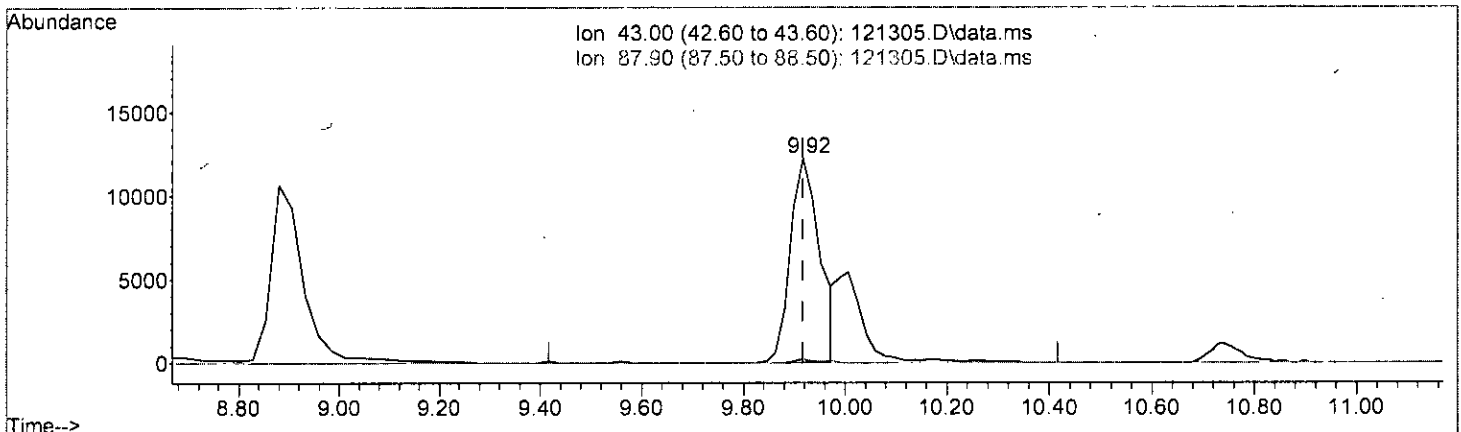
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.95#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: M. J. [unclear]*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

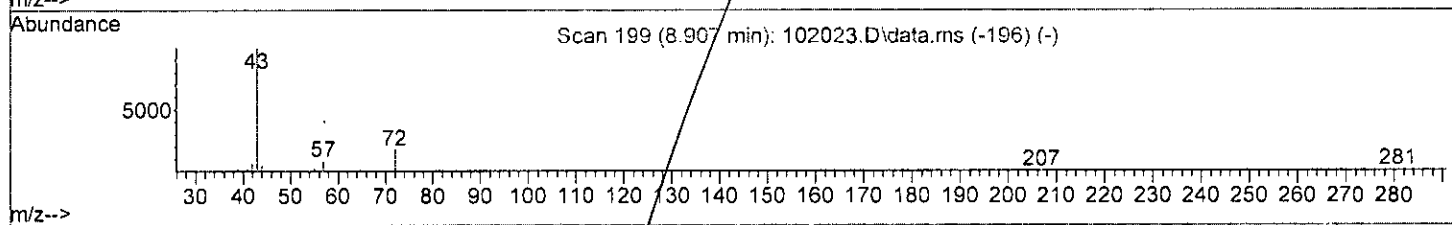
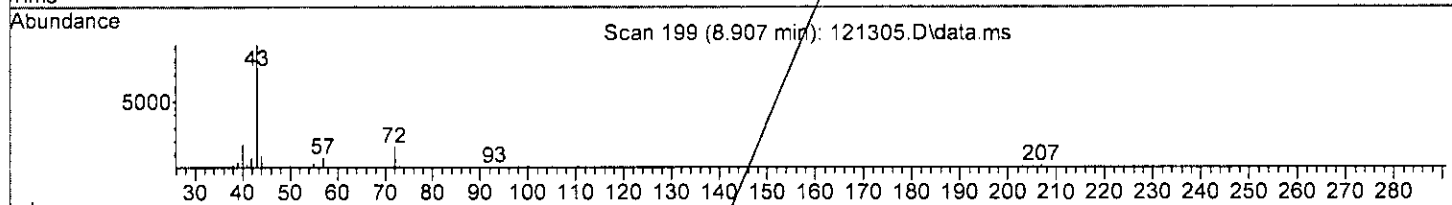
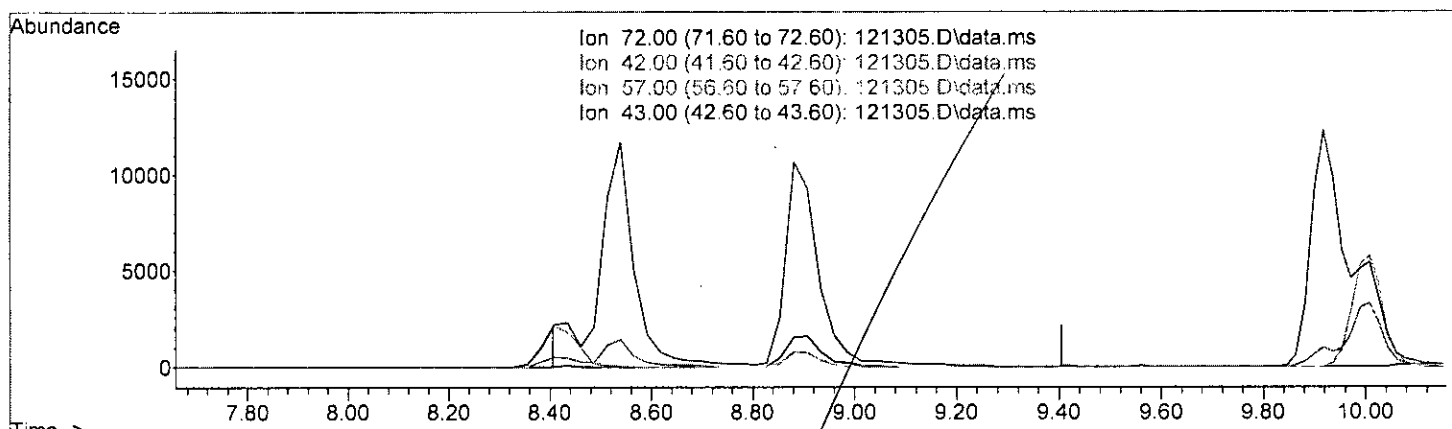
(31) Ethyl acetate (TMP)			
9.918min (-0.000) 2.660 ppbv m			
response	49154		
Ion	Exp%	Act%	
43.00	100.00	100.00	
87.90	1.70	1.32#	
0.00	0.00	0.00	
0.00	0.00	0.00	

*h 12/14/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

(33) 2-Butanone (MEK) (TMP)

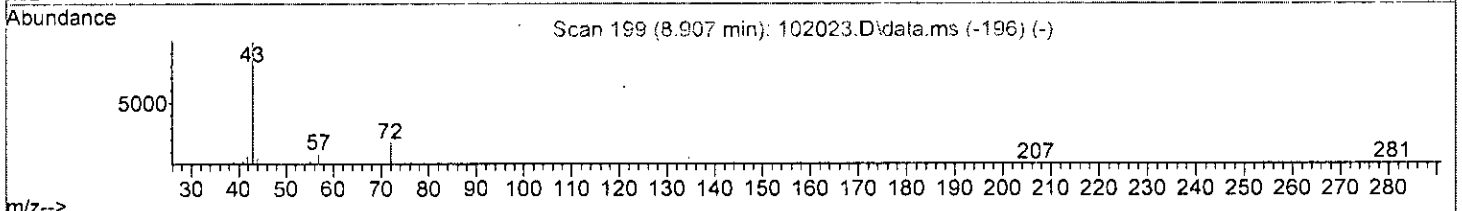
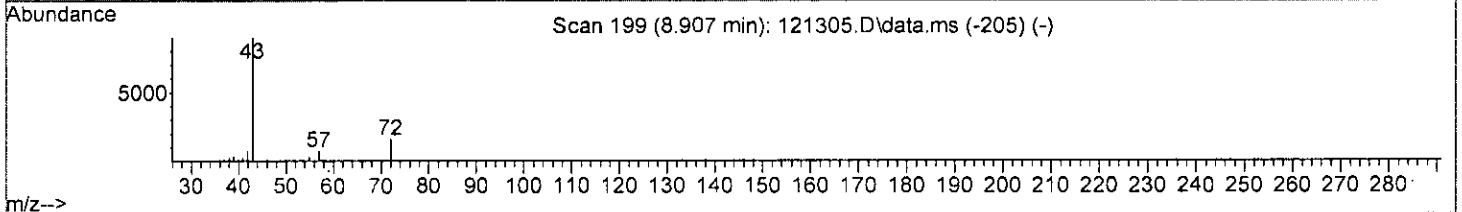
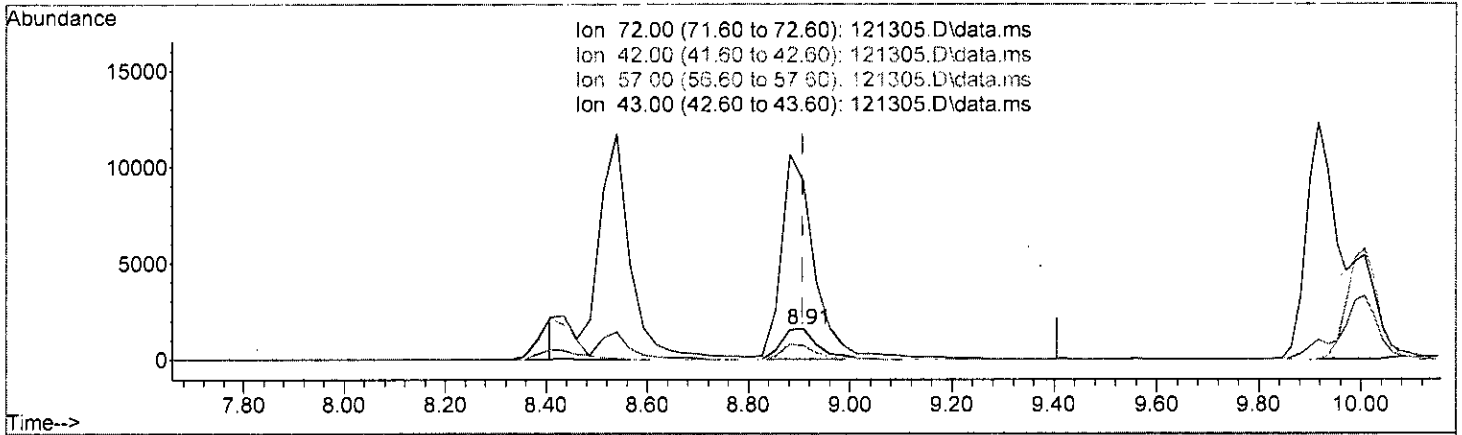
8.907min	0.000 ppbv d	
response	0	
Ion	Exp%	Act%
72.00	100.00	0.00
42.00	29.90	0.00
57.00	44.20	0.00
43.00	521.60	0.00

*h*  
*12/14/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121305.D\data.ms

(33) 2-Butanone (MEK) (TMP)

8.907min (+ 0.000) 2.502 ppbv m

response 7553

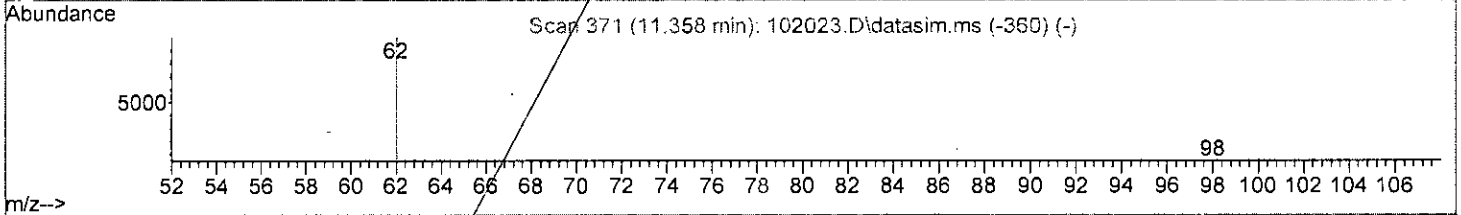
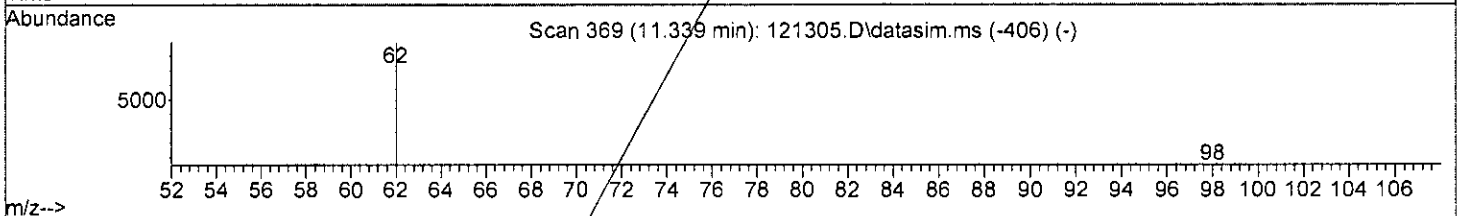
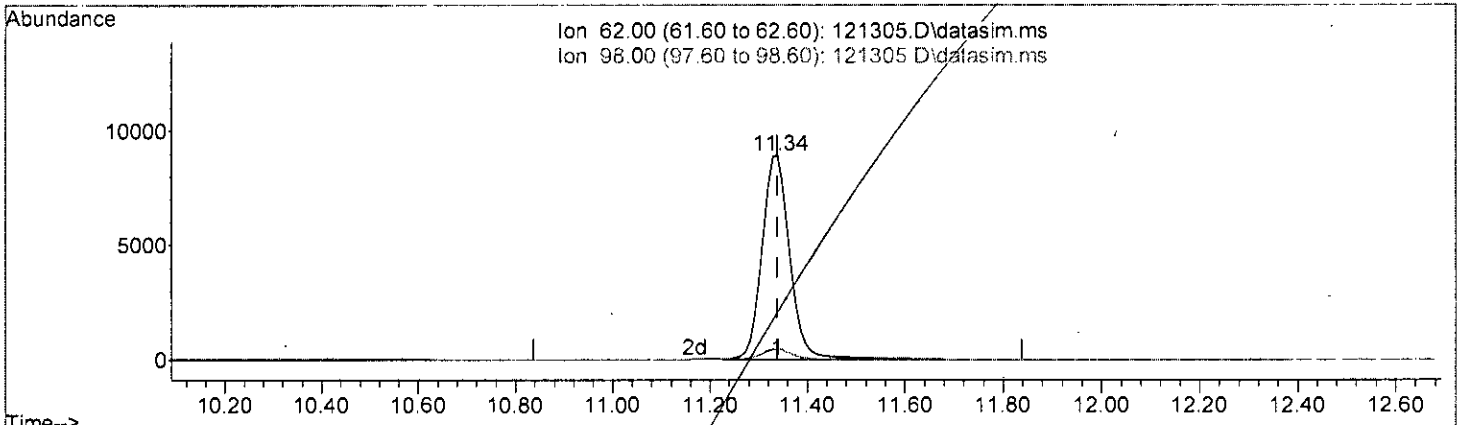
Ion	Exp%	Act%
72.00	100.00	100.00
42.00	29.90	46.12
57.00	44.20	46.12
43.00	521.60	587.60#

*h*  
*12/14/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121305.D\data.ms

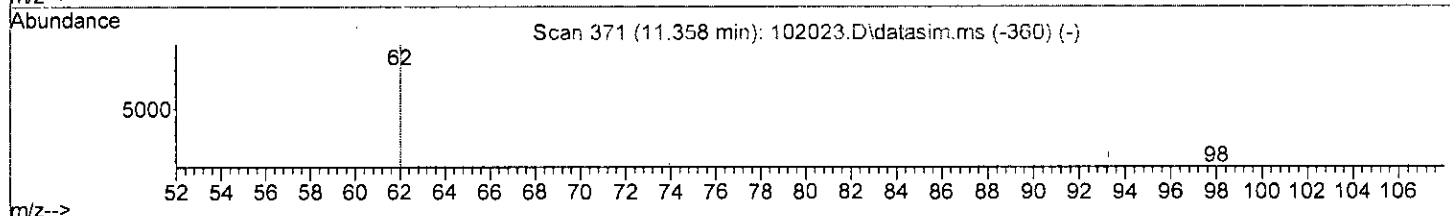
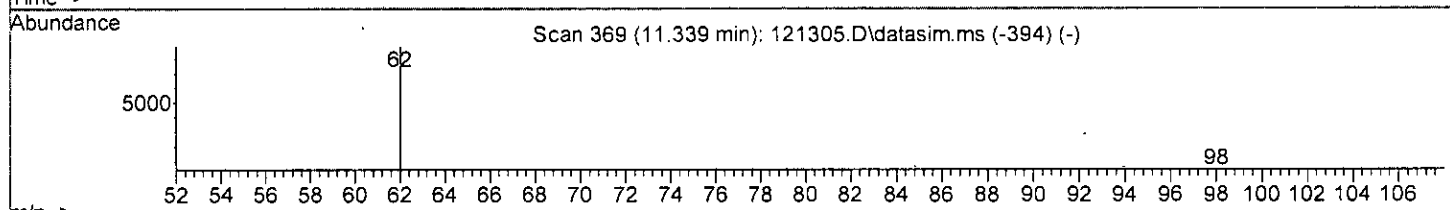
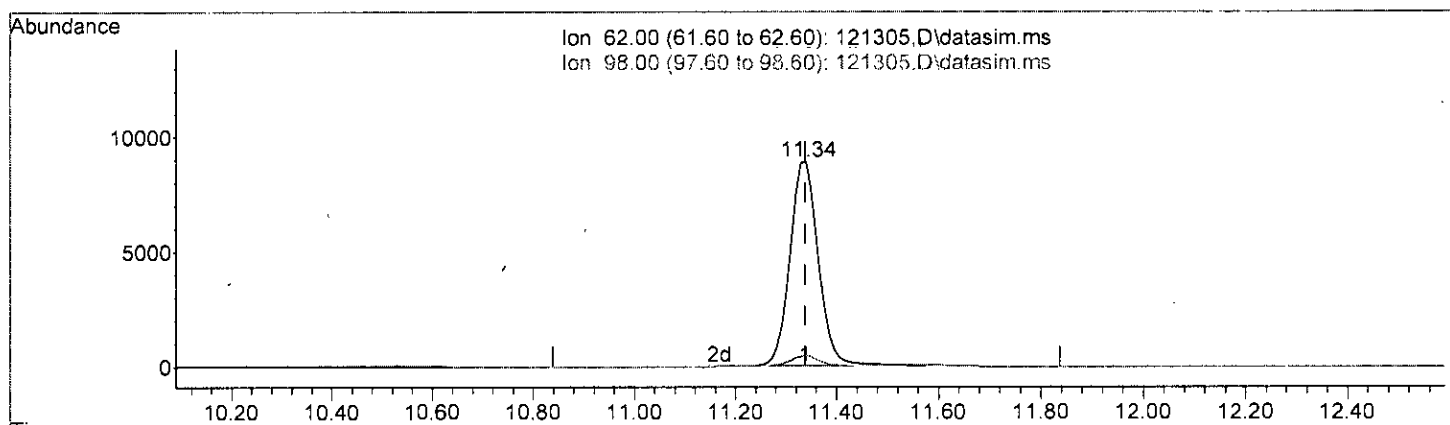
(34) 1,2-Dichloroethane (EDC) (TMP)			
11.339min (+ 0.000)	2.874	ppbv	
response	35848		
Ion	Exp%	Act%	
62.00	100.00	100.00	
98.00	5.30	5.25	
0.00	0.00	0.00	
0.00	0.00	0.00	

*h/c*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121305.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.339min (+ 0.000) 2.738 ppbv m

response	34175		
Ion	Exp%	Act%	
62.00	100.00	100.00	
98.00	5.30	5.25	
0.00	0.00	0.00	
0.00	0.00	0.00	

*bat*  
*12/14/22*

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	48772	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	210038	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	195417	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	139264	10.283	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 102.80%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	19633	3.050	ppbv	91
3) Dichlorodifluoromethane	3.48	85	54896	2.730	ppbv	97
4] Chloromethane	3.73	50	25235m	2.749	ppbv	
5) F-114	3.84	85	56858	2.764	ppbv	98
6] Vinyl chloride	4.09	62	22739	2.519	ppbv	98
7] 1,3-Butadiene	4.25	54	13669	2.305	ppbv #	84
8) Butane	4.36	43	28189	2.648	ppbv	94
9) Bromomethane	4.60	94	22613	2.510	ppbv	95
10] Chloroethane	4.84	64	8796m	2.756	ppbv	
11] Vinyl bromide	5.30	106	22887	2.916	ppbv	99
12) Ethanol	4.96	45	6954	2.150	ppbv	94
13] Acrolein	5.41	56	7993m	2.248	ppbv	
14) Pentane	6.25	43	31121	2.593	ppbv	98
15) Trichlorofluoromethane	5.84	101	63824	2.737	ppbv	98
16) Acetone	5.53	58	8815	2.544	ppbv	97
17) 2-Propanol	5.78	45	36803	2.437	ppbv #	95
18] 1,1-Dichloroethene	6.63	96	19473	2.427	ppbv	97
19] trans-1,2-Dichloroethene	8.07	96	18998	2.438	ppbv #	82
20) Methylene chloride	6.80	84	19022	2.637	ppbv	96
21) t-Butyl alcohol (TBA)	6.57	59	34079	2.619	ppbv #	69
22) 3-Chloropropene	6.94	41	29418	2.933	ppbv	94
23) CFC-113	7.15	101	45715	2.702	ppbv	96
24) Carbon disulfide	7.25	76	66403	2.635	ppbv	93
25) Methyl t-butyl ether (...)	8.41	73	40452	2.415	ppbv	100
26) Vinyl acetate	8.54	43	48882m	2.637	ppbv	
27] 1,1-Dichloroethane	8.36	63	44085	2.704	ppbv	99
28] cis-1,2-Dichloroethene	9.64	96	19643	2.383	ppbv	98
29) Hexane	10.01	57	23806	2.360	ppbv	80
30] Chloroform	10.08	83	51461	2.749	ppbv	97
31) Ethyl acetate	9.92	43	49154m	2.660	ppbv	
32) Tetrahydrofuran	10.75	42	21568	2.444	ppbv	94
33) 2-Butanone (MEK)	8.91	72	7553m	2.502	ppbv	
34] 1,2-Dichloroethane (EDC)	11.34	62	34175m	2.738	ppbv	



Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35] 1,1,1-Trichloroethane	11.81	97	46080	2.826	ppbv	95
36] Carbon tetrachloride	12.86	117	47811	2.783	ppbv	96
37] Benzene	12.61	78	64922	2.542	ppbv	96
38] Cyclohexane	13.07	84	15411	2.312	ppbv	92
40] 1,2-Dichloropropane	13.80	63	31473	2.768	ppbv	96
41] 1,4-Dioxane	14.09	88	11723	2.424	ppbv	79
42] 2,2,4-Trimethylpentane	14.24	57	85543	2.548	ppbv #	81
43] Methyl methacrylate	14.36	41	28082	2.755	ppbv	95
44] Heptane	14.56	43	35509	2.548	ppbv	98
45] Bromodichloromethane	14.04	83	53462	2.996	ppbv	99
46] Trichloroethene	14.14	95	32398	2.601	ppbv	92
47] cis-1,3-Dichloropropene	15.20	75	34170	2.717	ppbv	91
48] 4-Methyl-2-pentanone	15.23	100	2183	2.349	ppbv #	5
49] trans-1,3-Dichloropropene	15.78	75	32347	2.735	ppbv	85
50] Toluene	16.31	92	37827	2.547	ppbv	98
51] 1,1,2-Trichloroethane	16.00	83	31415	2.910	ppbv	90
52] 2-Hexanone	16.56	43	50262	2.828	ppbv	92
53] Tetrachloroethene	17.52	164	27970	2.719	ppbv	93
54] Dibromochloromethane	16.76	129	52290	2.892	ppbv	99
55] 1,2-Dibromoethane (EDB)	17.04	107	44020	2.762	ppbv	99
57] Chlorobenzene	18.19	112	55032	2.558	ppbv	98
58] Ethylbenzene	18.53	91	81617	2.334	ppbv	96
59] 1,1,2,2-Tetrachloroethane	19.11	83	72646	2.804	ppbv	91
60] Nonane	19.30	43	48913	2.552	ppbv	93
61] Isopropylbenzene	19.70	105	90352	2.580	ppbv	99
62] 2-Chlorotoluene	20.17	126	22023	2.515	ppbv	83
63] Propylbenzene	20.17	91	164519	2.557	ppbv	97
64] 4-Ethyltoluene	20.32	105	72136	2.291	ppbv	99
65] m,p-Xylene	18.70	106	58043	4.690	ppbv	96
66] o-Xylene	19.15	106	28807	2.398	ppbv	97
67] Styrene	19.05	104	36799	2.299	ppbv	97
68] Bromoform	18.80	173	55733	2.773	ppbv	99
70] Benzyl chloride	20.95	91	59748	2.638	ppbv	100
71] 1,3,5-Trimethylbenzene	20.39	105	72194	2.548	ppbv	93
72] 1,2,4-Trimethylbenzene	20.80	105	55400	2.125	ppbv	99
73] 1,3-Dichlorobenzene	20.98	146	51703	2.615	ppbv	98
74] 1,4-Dichlorobenzene	21.04	146	46775	2.528	ppbv	85
75] 1,2-Dichlorobenzene	21.41	146	52276	2.612	ppbv	92
76] 1,2,4-Trichlorobenzene	23.64	180	23941	1.974	ppbv	97
77] Naphthalene	23.84	128	29984	1.954	ppbv	97
78] Hexachlorobutadiene	24.44	225	53835	2.637	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS7\12-13-22\  
Data File : 121305.D  
Acq Dn : 13 Dec 2022 3:24 pm  
Operator : bat  
Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
Misc : Cal line  
ALS Vial : 5 Sample Multiplier: 1  
InstName : GCMS7

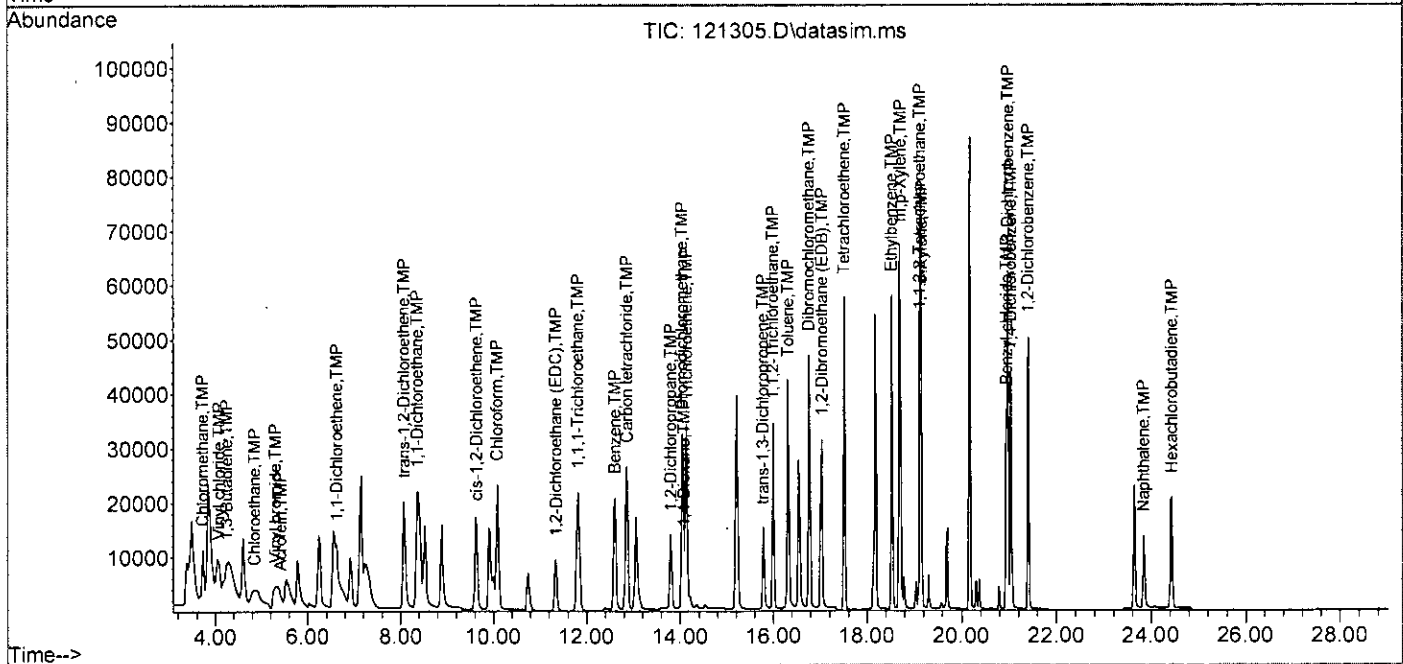
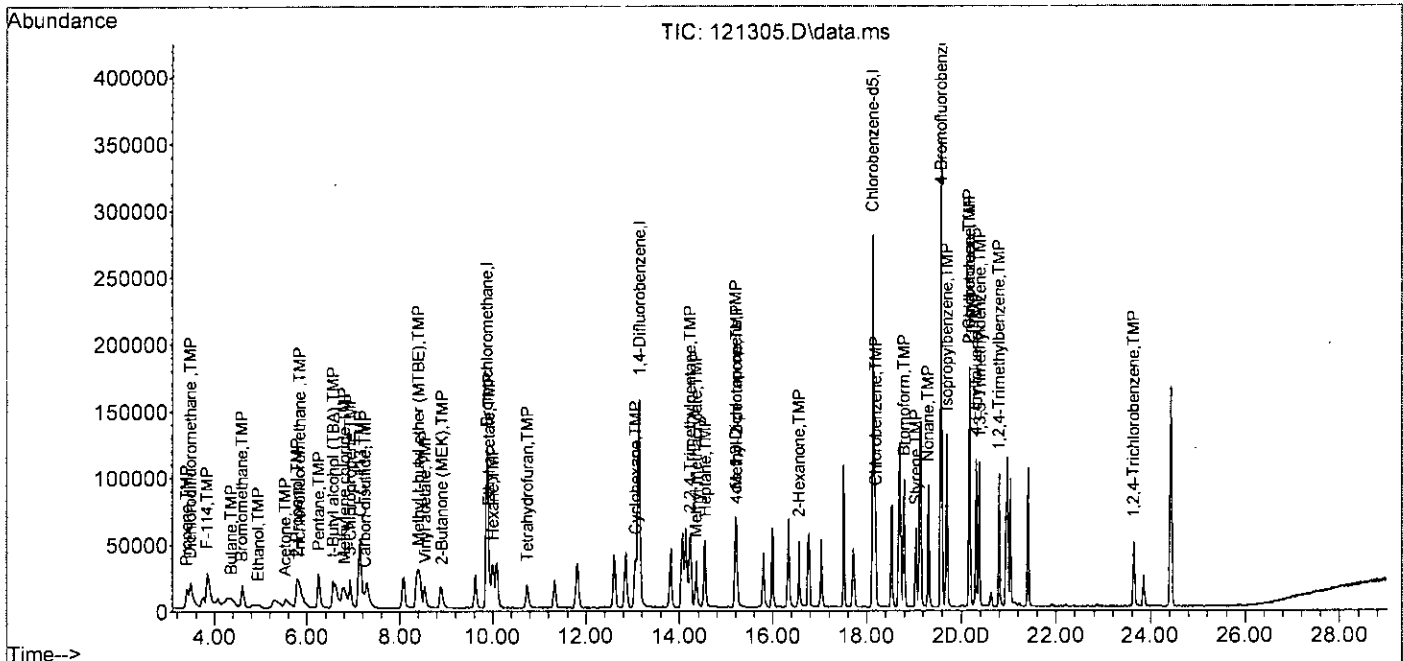
Quant Time: Dec 14 14:55:51 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : TO-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth: T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

Quantitation Report (QT Reviewed)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	81	0.00
2 TMP	Propene	2.500	3.050	-22.0	92	0.00
3 TMP	Dichlorodifluoromethane	2.500	2.730	-9.2	84	0.00
4 TMP	Chloromethane	2.500	2.749	-10.0	89	0.00
5 TMP	F-114	2.500	2.764	-10.6	90	-0.04
6 TMP	Vinyl chloride	2.500	2.519	-0.8	83	0.00
7 TMP	1,3-Butadiene	2.500	2.305	7.8	77	-0.04
8 TMP	Butane	2.500	2.648	-5.9	81	0.04
9 TMP	Bromomethane	2.500	2.510	-0.4	81	0.00
10 TMP	Chloroethane	2.500	2.756	-10.2	84	0.00
11 TMP	Vinyl bromide	2.500	2.916	-16.6	90	-0.02
12 TMP	Ethanol	2.500	2.150	14.0	64	0.00
13 TMP	Acrolein	2.500	2.248	10.1	81	0.00
14 TMP	Pentane	2.500	2.593	-3.7	79	0.00
15 -TMP	Trichlorofluoromethane	2.500	2.737	-9.5	82	0.00
16 TMP	Acetone	2.500	2.544	-1.8	75	-0.04
17 TMP	2-Propanol	2.500	2.437	2.5	76	0.00
18 TMP	1,1-Dichloroethene	2.500	2.427	2.9	80	0.00
19 TMP	trans-1,2-Dichloroethene	2.500	2.438	2.5	78	-0.03
20 TMP	Methylene chloride	2.500	2.637	-5.5	78	0.00
21 TMP	t-Butyl alcohol (TBA)	2.500	2.619	-4.8	86	0.00
22 TMP	3-Chloropropene	2.500	2.933	-17.3	94	0.00
23 TMP	CFC-113	2.500	2.702	-8.1	81	0.00
24 TMP	Carbon disulfide	2.500	2.635	-5.4	75	-0.03
25 TMP	Methyl t-butyl ether (MTBE)	2.500	2.415	3.4	73	-0.03
26 TMP	Vinyl acetate	2.500	2.637	-5.5	80	0.00
27 TMP	1,1-Dichloroethane	2.500	2.704	-8.2	84	0.00
28 TMP	cis-1,2-Dichloroethene	2.500	2.383	4.7	77	0.00
29 TMP	Hexane	2.500	2.360	5.6	75	0.00
30 TMP	Chloroform	2.500	2.749	-10.0	84	-0.02
31 TMP	Ethyl acetate	2.500	2.660	-6.4	84	0.00
32 TMP	Tetrahydrofuran	2.500	2.444	2.2	81	0.00
33 TMP	2-Butanone (MEK)	2.500	2.502	-0.1	75	0.00
34 TMP	1,2-Dichloroethane (EDC)	2.500	2.738	-9.5	85	0.00
35 TMP	1,1,1-Trichloroethane	2.500	2.826	-13.0	83	-0.01
36 TMP	Carbon tetrachloride	2.500	2.783	-11.3	84	0.00
37 TMP	Benzene	2.500	2.542	-1.7	78	0.00
38 TMP	Cyclohexane	2.500	2.312	7.5	71	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
39 I	1,4-Difluorobenzene	10.000	10.000	0.0	76	0.00
40 TMP	1,2-Dichloropropane	2.500	2.768	-10.7	82	0.00
41 TMP	1,4-Dioxane	2.500	2.424	3.0	77	0.00
42 TMP	2,2,4-Trimethylpentane	2.500	2.548	-1.9	74	0.00
43 TMP	Methyl methacrylate	2.500	2.755	-10.2	77	0.00
44 TMP	Heptane	2.500	2.548	-1.9	74	0.00
45 TMP	Bromodichloromethane	2.500	2.996	-19.8	84	0.00
46 TMP	Trichloroethene	2.500	2.601	-4.0	81	0.00
47 TMP	cis-1,3-Dichloropropene	2.500	2.717	-8.7	75	0.00
48 TMP	4-Methyl-2-pentanone	2.500	2.349	6.0	69	0.00
49 TMP	trans-1,3-Dichloropropene	2.500	2.735	-9.4	77	0.00
50 TMP	Toluene	2.500	2.547	-1.9	74	0.00
51 TMP	1,1,2-Trichloroethane	2.500	2.910	-16.4	83	0.00
52 TMP	2-Hexanone	2.500	2.828	-13.1	84	0.00
53 TMP	Tetrachloroethene	2.500	2.719	-8.8	79	0.00
54 TMP	Dibromochloromethane	2.500	2.892	-15.7	83	0.00
55 TMP	1,2-Dibromoethane (EDB)	2.500	2.762	-10.5	79	0.00
56 I	Chlorobenzene-d5	10.000	10.000	0.0	80	0.00
57 TMP	Chlorobenzene	2.500	2.558	-2.3	79	0.00
58 TMP	Ethylbenzene	2.500	2.334	6.6	71	0.00
59 TMP	1,1,2,2-Tetrachloroethane	2.500	2.804	-12.2	84	-0.02
60 TMP	Nonane	2.500	2.552	-2.1	76	0.00
61 TMP	Isopropylbenzene	2.500	2.580	-3.2	74	0.00
62 TMP	2-Chlorotoluene	2.500	2.515	-0.6	74	0.00
63 TMP	Propylbenzene	2.500	2.557	-2.3	73	-0.01
64 TMP	4-Ethyltoluene	2.500	2.291	8.4	71	0.00
65 TMP	m,p-Xylene	5.000	4.690	6.2	71	0.00
66 TMP	o-Xylene	2.500	2.398	4.1	72	0.00
67 TMP	Styrene	2.500	2.299	8.0	70	0.00
68 TMP	Bromoform	2.500	2.773	-10.9	83	0.00
69 S	4-Bromofluorobenzene	10.000	10.283	-2.8	77	0.00
70 TMP	Benzyl chloride	2.500	2.638	-5.5	80	0.00
71 TMP	1,3,5-Trimethylbenzene	2.500	2.548	-1.9	72	0.00
72 TMP	1,2,4-Trimethylbenzene	2.500	2.125	15.0	67	0.00
73 TMP	1,3-Dichlorobenzene	2.500	2.615	-4.6	77	0.00
74 TMP	1,4-Dichlorobenzene	2.500	2.528	-1.1	76	-0.01
75 TMP	1,2-Dichlorobenzene	2.500	2.612	-4.5	77	0.00
76 TMP	1,2,4-Trichlorobenzene	2.500	1.974	21.0	72	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
77 TMP Naphthalene	2.500	1.954	21.8	69	0.00
78 TMP Hexachlorobutadiene	2.500	2.637	-5.5	83	0.00

(#) = Out of Range                      SPCC's out = 0    CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	81	0.00
2 TMP	Propene	1.556	1.610	-3.5	92	0.00
3 TMP	Dichlorodifluoromethane	4.123	4.502	-9.2	84	0.00
4 TMP	Chloromethane	1.882	2.070	-10.0	89	0.00
5 TMP	F-114	4.217	4.663	-10.6	90	-0.04
6 TMP	Vinyl chloride	1.851	1.865	-0.8	83	0.00
7 TMP	1,3-Butadiene	1.216	1.121	7.8	77	-0.04
8 TMP	Butane	2.183	2.312	-5.9	81	0.04
9 TMP	Bromomethane	1.847	1.855	-0.4	81	0.00
10 TMP	Chloroethane	0.655	0.721	-10.1	84	0.00
11 TMP	Vinyl bromide	1.609	1.877	-16.7	90	-0.02
12 TMP	Ethanol	0.663	0.570	14.0	64	0.00
13 TMP	Acrolein	0.729	0.656	10.0	81	0.00
14 TMP	Pentane	2.461	2.552	-3.7	79	0.00
15 TMP	Trichlorofluoromethane	4.781	5.234	-9.5	82	0.00
16 TMP	Acetone	0.710	0.723	-1.8	75	-0.04
17 TMP	2-Propanol	3.096	3.018	2.5	76	0.00
18 TMP	1,1-Dichloroethene	1.645	1.597	2.9	80	0.00
19 TMP	trans-1,2-Dichloroethene	1.598	1.558	2.5	78	-0.03
20 TMP	Methylene chloride	1.479	1.560	-5.5	78	0.00
21 TMP	t-Butyl alcohol (TBA)	2.668	2.795	-4.8	86	0.00
22 TMP	3-Chloropropene	2.056	2.413	-17.4	94	0.00
23 TMP	CFC-113	3.469	3.749	-8.1	81	0.00
24 TMP	Carbon disulfide	5.167	5.446	-5.4	75	-0.03
25 TMP	Methyl t-butyl ether (MTBE)	3.434	3.318	3.4	73	-0.03
26 TMP	Vinyl acetate	3.801	4.009	-5.5	80	0.00
27 TMP	1,1-Dichloroethane	3.342	3.616	-8.2	84	0.00
28 TMP	cis-1,2-Dichloroethene	1.690	1.611	4.7	77	0.00
29 TMP	Hexane	2.068	1.952	5.6	75	0.00
30 TMP	Chloroform	4.060	4.221	-4.0	84	-0.02
31 TMP	Ethyl acetate	3.789	4.031	-6.4	84	0.00
32 TMP	Tetrahydrofuran	1.809	1.769	2.2	81	0.00
33 TMP	2-Butanone (MEK)	0.619	0.619	0.0	75	0.00
34 TMP	1,2-Dichloroethane (EDC)	2.687	2.803	-4.3	85	0.00
35 TMP	1,1,1-Trichloroethane	3.343	3.779	-13.0	83	-0.01
36 TMP	Carbon tetrachloride	3.523	3.921	-11.3	84	0.00
37 TMP	Benzene	5.688	5.325	6.4	78	0.00
38 TMP	Cyclohexane	1.367	1.264	7.5	71	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121305.D  
 Acq On : 13 Dec 2022 3:24 pm  
 Operator : bat  
 Sample : 02-2958 lcs/ 2.5 ppbv 67-196a rr  
 Misc : Cal line  
 ALS Vial : 5 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:55:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

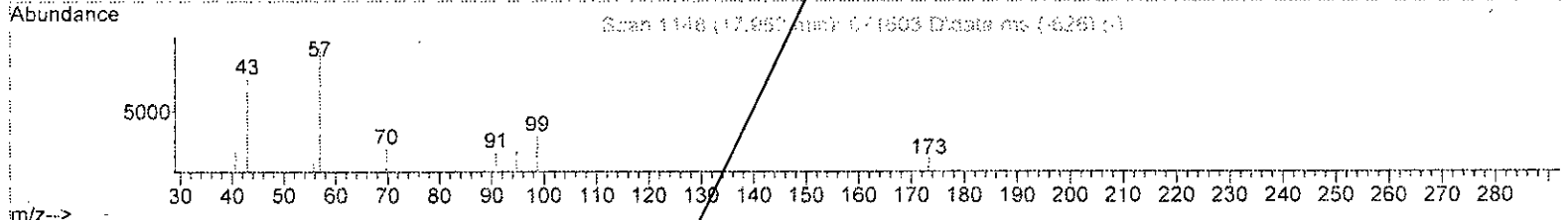
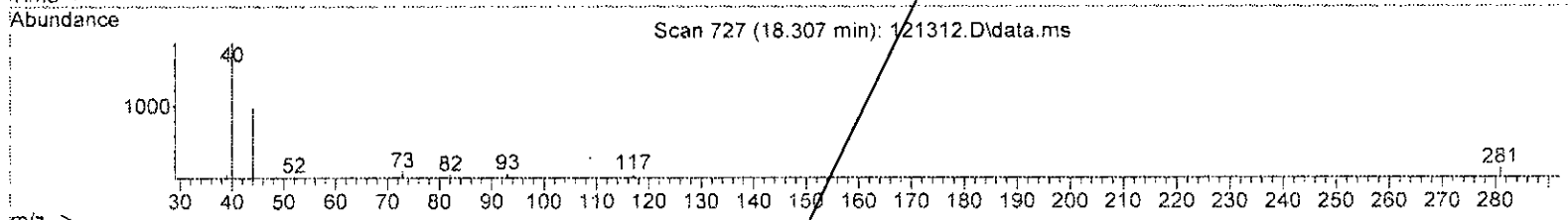
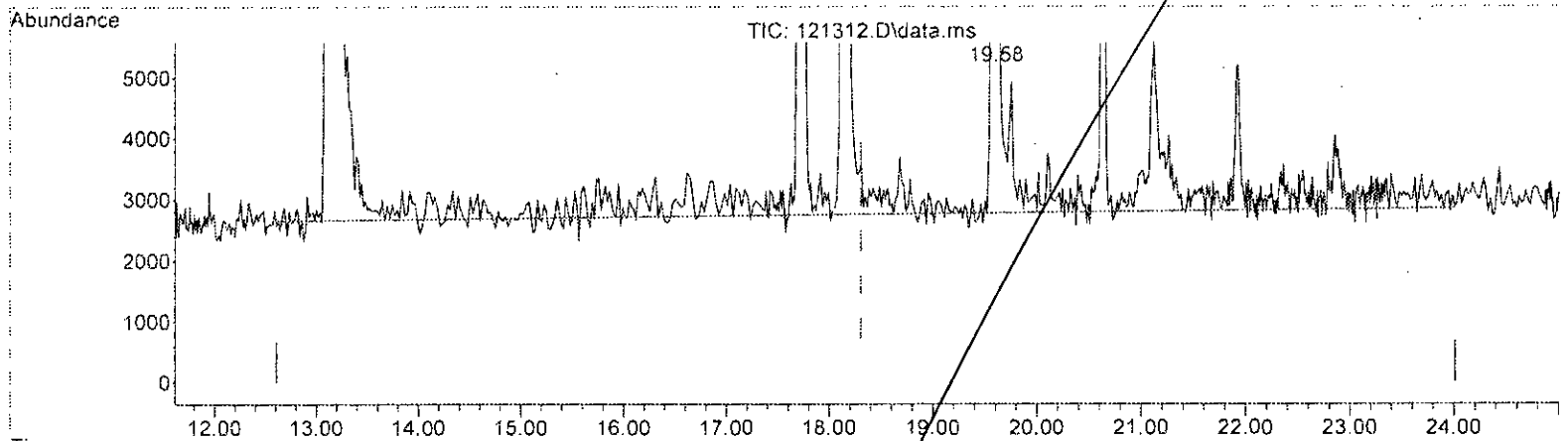
Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	76	0.00
40 TMP 1,2-Dichloropropane	0.541	0.599	-10.7	82	0.00
41 TMP 1,4-Dioxane	0.230	0.223	3.0	77	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.629	-1.9	74	0.00
43 TMP Methyl methacrylate	0.485	0.535	-10.3	77	0.00
44 TMP Heptane	0.663	0.676	-2.0	74	0.00
45 TMP Bromodichloromethane	0.850	1.018	-19.8	84	0.00
46 TMP Trichloroethene	0.593	0.617	-4.0	81	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.651	-8.7	75	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.042	4.5	69	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.616	-9.4	77	0.00
50 TMP Toluene	0.707	0.720	-1.8	74	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.598	-8.7	83	0.00
52 TMP 2-Hexanone	0.846	0.957	-13.1	84	0.00
53 TMP Tetrachloroethene	0.490	0.533	-8.8	79	0.00
54 TMP Dibromochloromethane	0.861	0.996	-15.7	83	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.838	-1.7	79	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	80	0.00
57 TMP Chlorobenzene	1.101	1.126	-2.3	79	0.00
58 TMP Ethylbenzene	1.968	1.671	15.1	71	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.487	-6.7	84	-0.02
60 TMP Nonane	0.981	1.001	-2.0	76	0.00
61 TMP Isopropylbenzene	1.792	1.849	-3.2	74	0.00
62 TMP 2-Chlorotoluene	0.448	0.451	-0.7	74	0.00
63 TMP Propylbenzene	3.292	3.368	-2.3	73	-0.01
64 TMP 4-Ethyltoluene	1.611	1.477	8.3	71	0.00
65 TMP m,p-Xylene	0.633	0.594	6.2	71	0.00
66 TMP o-Xylene	0.615	0.590	4.1	72	0.00
67 TMP Styrene	0.819	0.753	8.1	70	0.00
68 TMP Bromoform	1.028	1.141	-11.0	83	0.00
69 S 4-Bromofluorobenzene	0.693	0.713	-2.9	77	0.00
70 TMP Benzyl chloride	0.987	1.223	-23.9	80	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.478	-1.9	72	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.134	9.1	67	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.058	-4.5	77	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.957	-1.1	76	-0.01
75 TMP 1,2-Dichlorobenzene	1.024	1.070	-4.5	77	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.490	21.7	72	0.00



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:10:55 2022  
 Quant Method : D:\GCMS7 Methods\1213GAS80silox7.M  
 Quant Title : TO-15 method  
 QLast Update : Wed Dec 14 20:57:10 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121312.D\data.ms

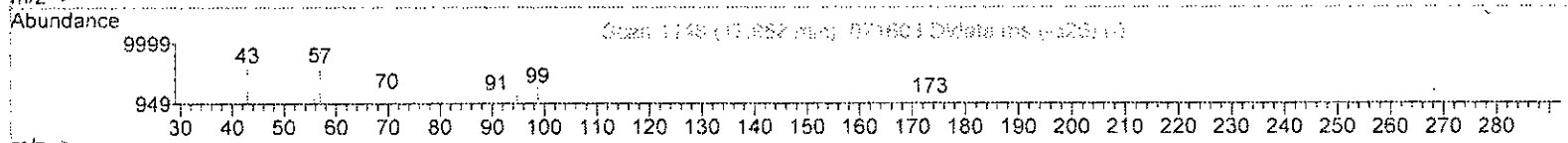
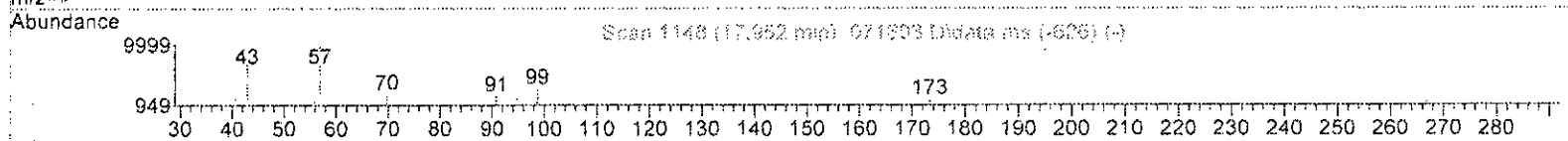
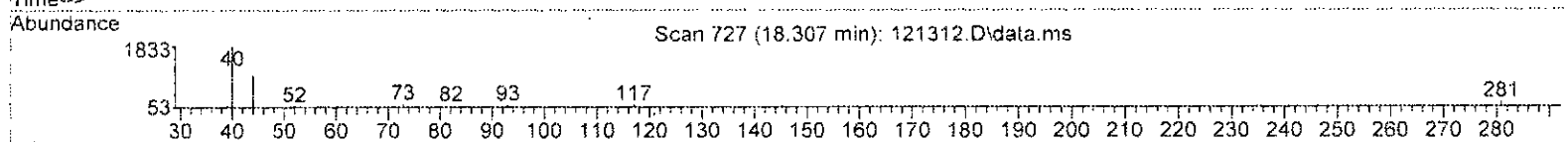
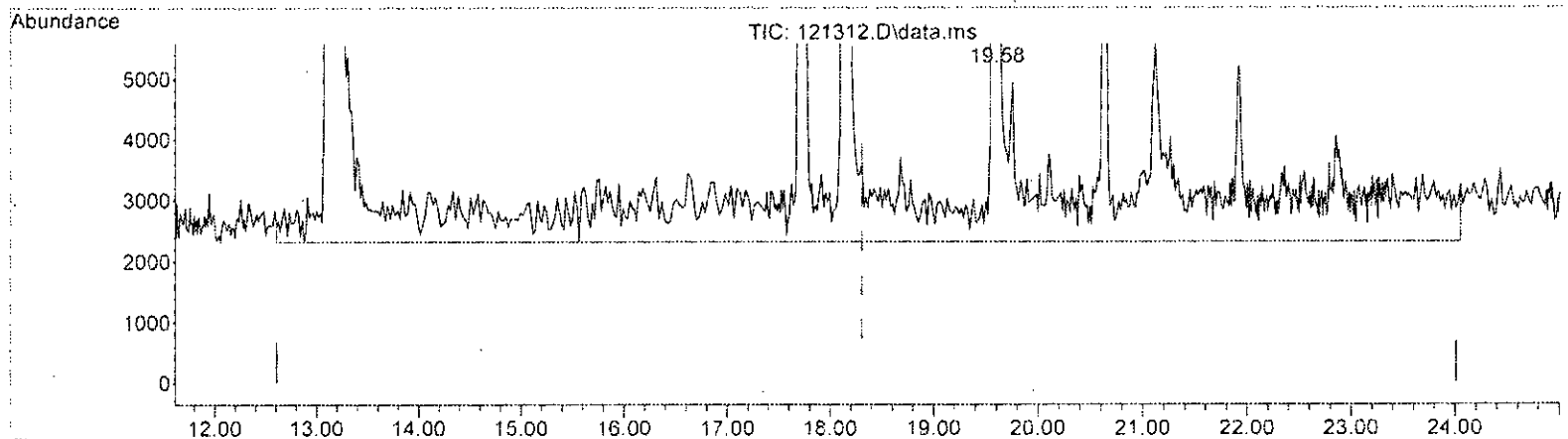
(5) NWTPH-Gx (HMF)		
18.310min ( 0.000)	5.532 ppbv m	
response	151747	
Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*h*  
*calculated*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:10:55 2022  
 Quant Method : D:\GCMS7 Methods\1213GAS80silox7.M  
 Quant Title : TO-15 method  
 QLast Update : Wed Dec 14 20:57:10 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121312.D\data.ms

(5) NWTPH-Gx (HMP)		
18.310min ( 0.000)	75.402 ppbv m	
response	2068133	
Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*h*  
*10/14/22*

Area Percent Report

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 3 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : D:\GCMS7 Methods\1213GAS80silox7.M  
 Title : IO-15 method

Signal : TIC: 121312.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.278	130	139	147	rBV	17161	77881	13.42%	3.373%
2	9.864	236	243	258	rBV	106701	394439	67.97%	17.083%
3	13.142	486	493	517	rBV	128294	552811	95.26%	23.942%
4	17.716	688	694	704	rVB	53641	148042	25.51%	6.412%
5	18.130	713	718	730	rBV	220437	580289	100.00%	25.132%
6	19.578	787	792	799	rBV	235172	524034	90.31%	22.696%
7	20.638	847	856	863	rBV	10739	31462	5.42%	1.363%

Sum of corrected areas: 2308958

Signal : TIC: 121312.D\datsim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.513	64	67	78	rBV3	904	4901	43.22%	12.099%
2	5.767	78	80	91	rVB3	174	844	7.44%	2.084%
3	6.021	91	92	96	rBV3	223	2006	17.69%	4.952%
4	6.574	110	112	116	rVB2	232	858	7.57%	2.118%
5	7.284	134	139	146	rVB	588	3238	28.56%	7.994%
6	12.397	449	451	460	rBV2	353	3699	32.62%	9.132%
7	13.130	488	492	511	rBV	1965	8210	72.40%	20.268%
8	13.577	515	516	518	rBV	203	1030	9.08%	2.543%
9	17.709	690	693	704	rVB	209	647	5.71%	1.597%
10	17.921	706	707	708	rBV	224	694	6.12%	1.713%
11	18.136	715	718	727	rBV	4284	11339	100.00%	27.993%
12	19.584	789	792	796	rBV	756	1994	17.59%	4.923%
13	23.437	1138	1139	1140	rBV	402	1047	9.23%	2.585%

Sum of corrected areas: 40507

Area Percent Report

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 3 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : D:\GCMS7 Methods\1213GAS80silox7.M  
 Title : TO-15 method

Signal : TIC: 121312.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.278	130	139	147	rBV	17161	77881	13.42%	3.373%
2	9.864	236	243	258	rBV	106701	394439	67.97%	17.083%
3	13.142	486	493	517	rBV	128294 <sup>b</sup>	552811	95.26%	23.942%
4	17.716	688	694	704	rVB	53641 <sup>e</sup>	148042	25.51%	6.412%
5	18.130	713	718	730	rBV	220437 <sup>c</sup>	580289	100.00%	25.132%
6	19.578	787	792	799	rBV	235172 <sup>d</sup>	524034	90.31%	22.696%
7	20.638	847	856	863	rBV	10739 <sup>f</sup>	31462	5.42%	1.363%

Sum of corrected areas: 2308958

Signal : TIC: 121312.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.513	64	67	78	rBV3	904	4901	43.22%	12.099%
2	5.767	78	80	91	rVB3	174	844	7.44%	2.084%
3	6.021	91	92	96	rBV3	223	2006	17.69%	4.952%
4	6.574	110	112	116	rVB2	232	858	7.57%	2.118%
5	7.284	134	139	146	rVB	588	3238	28.56%	7.994%
6	12.397	449	451	460	rBV2	353	3699	32.62%	9.132%
7	13.130	488	492	511	rBV	1965	8210	72.40%	20.268%
8	13.577	515	516	518	rBV	203	1030	9.08%	2.543%
9	17.709	690	693	704	rVB	209	647	5.71%	1.597%
10	17.921	706	707	708	rBV	224	694	6.12%	1.713%
11	18.136	715	718	727	rBV	4284	11339	100.00%	27.993%
12	19.584	789	792	796	rBV	756	1994	17.59%	4.923%
13	23.437	1138	1139	1140	rBV	402	1047	9.23%	2.585%

Sum of corrected areas: 40507

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:10:55 2022  
 Quant Method : D:\GCMS7 Methods\1213GAS80silox7.M  
 Quant Title : TO-15 method  
 QLast Update : Wed Dec 14 20:57:10 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Bromochloromethane	9.86	128	47986	10.000	ppbv	#-0.02	
2) 1,4-Difluorobenzene	13.14	114	191662	10.000	ppbv	0.00	
3) Chlorobenzene-d5	18.13	117	178213	10.000	ppbv	0.00	
System Monitoring Compounds							
4) 4-Bromofluorobenzene	19.58	95	104426	9.258	ppbv	0.00	
Spiked Amount	10.000	Range	70 - 130	Recovery	=	92.60%	
Target Compounds							
5) NWTPH-Gx	18.31	TIC	2068133m	75.402	ppbv		

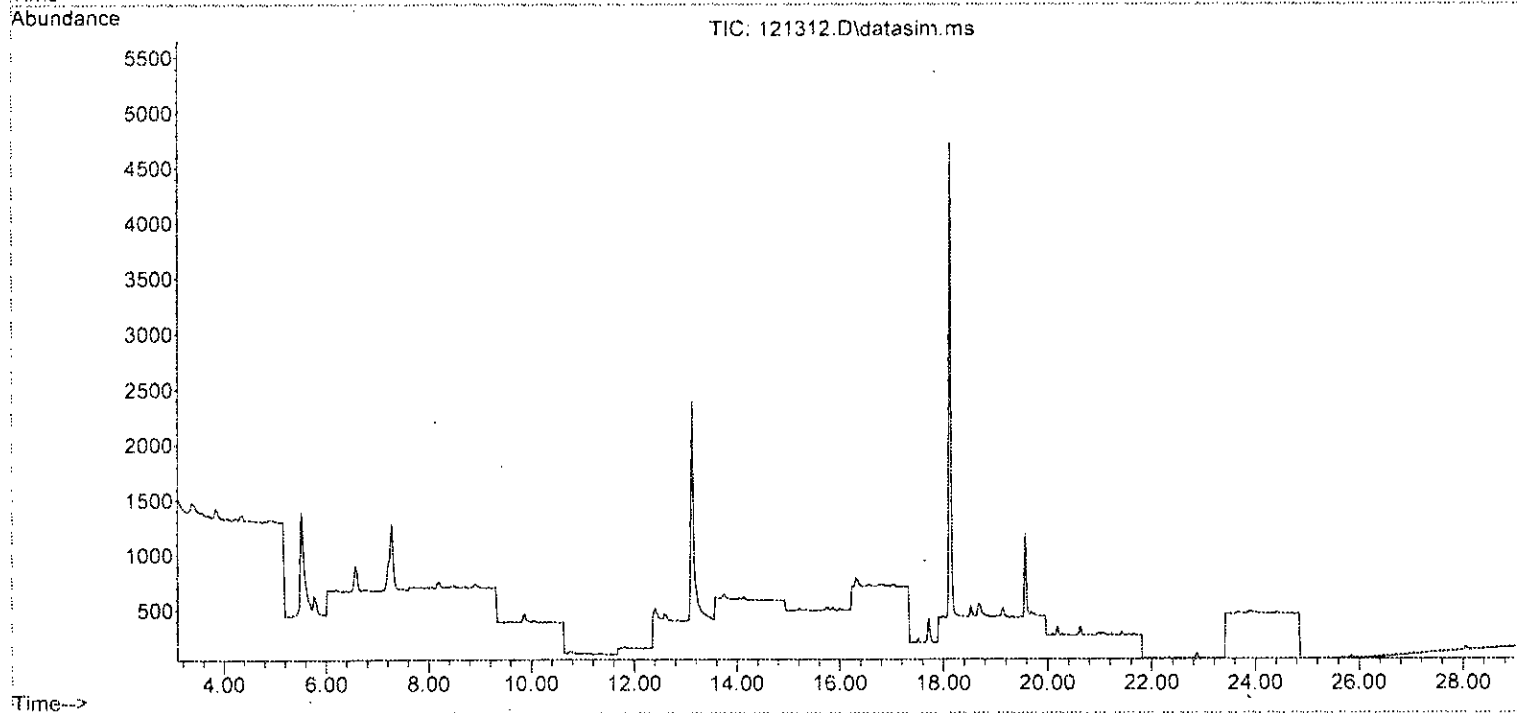
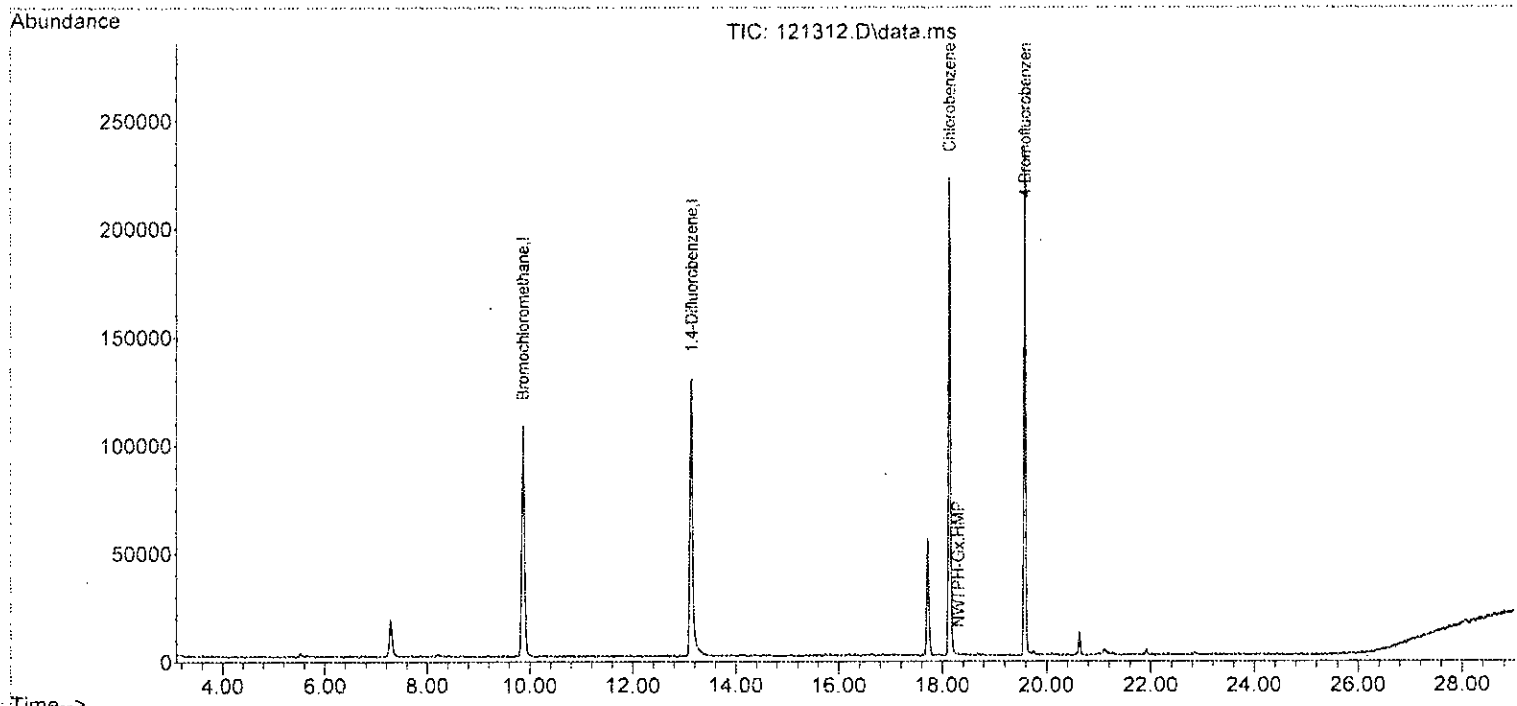
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*280 ppbv*

*12/14/22*

Data Path : D:\Proc\_GCMS7\12-13-22\  
Data File : 121312.D  
Acq On : 13 Dec 2022 8:01 pm  
Operator : bat  
Sample : 02-2958 MB  
Misc : T1  
ALS Vial : 12 Sample Multiplier: 1  
InstName : GCMS7

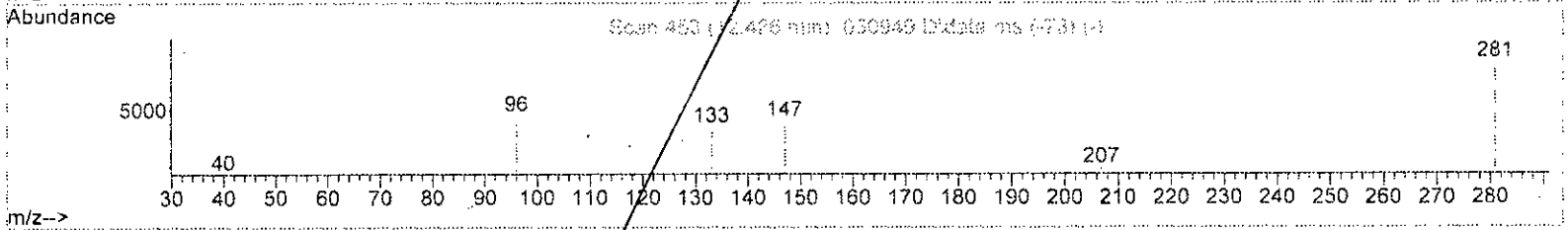
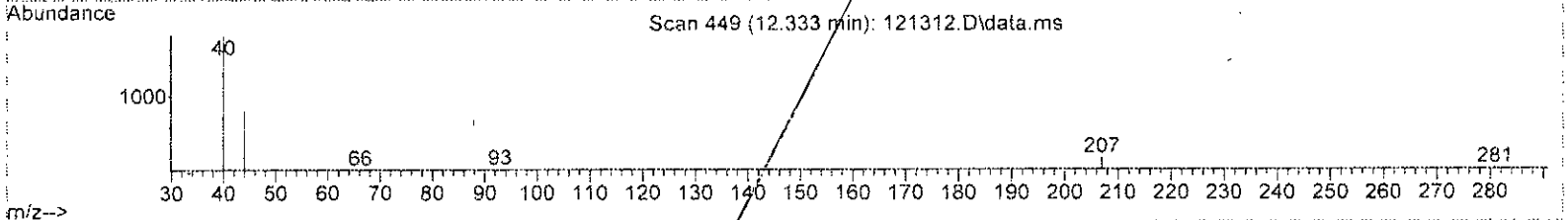
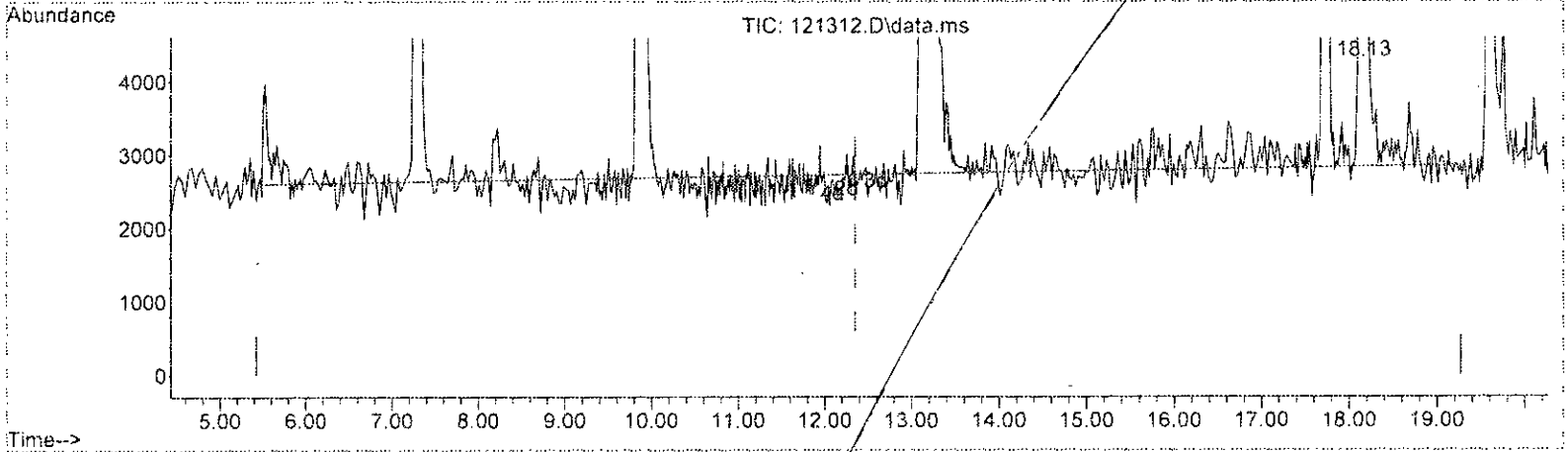
Quant Time: Dec 14 21:10:55 2022  
Quant Method : D:\GCMS7 Methods\1213GAS80silox7.M  
Quant Title : TO-15 method  
QLast Update : Wed Dec 14 20:57:10 2022  
Response via : Initial Calibration  
DataAcq Meth:TO1SDC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH T0-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121312.D\data.ms

(19) APH EC5-8 aliphatics (H)

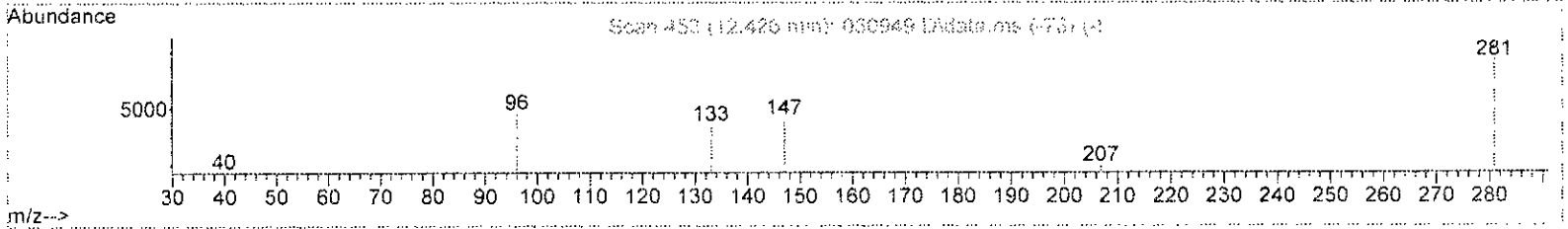
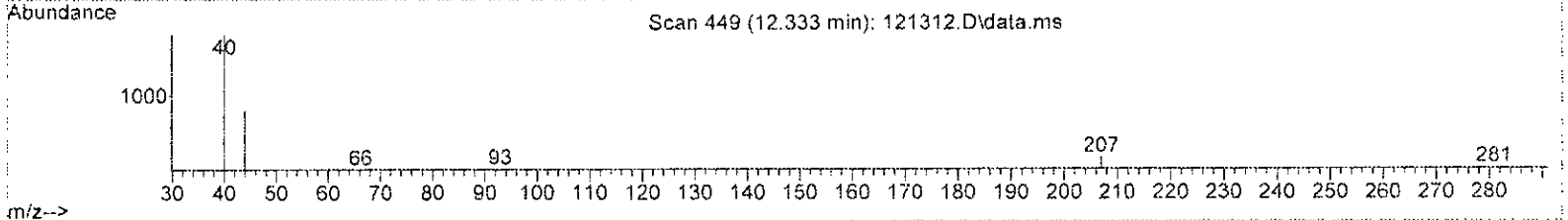
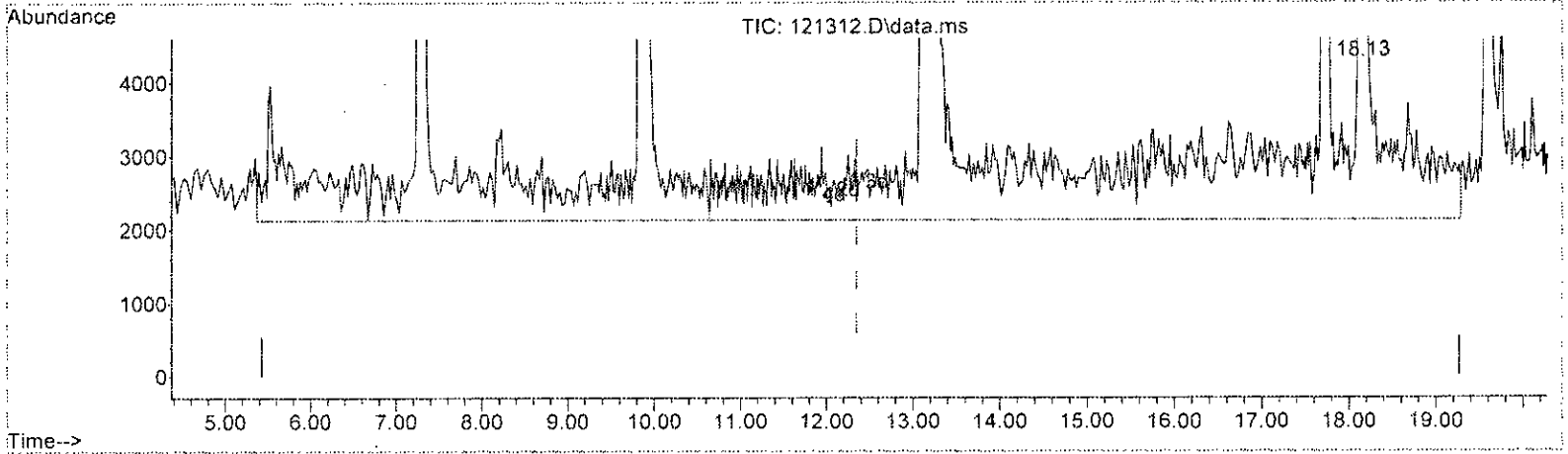
12.350min ( 0.000)	24.830 ug/m3 m
response	339128
Signal	Exp% Act%
TIC	100.00 100.00
0.00	0.00 0.00
0.00	0.00 0.00
0.00	0.00 0.00

12/14/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121312.D\data.ms

(19) APH EC5-8 aliphatics (H)			
12.350min ( 0.000)	170.290 ug/m3 m		
response	2325818		
Signal	Exp%	Act%	
TIC	100.00	100.00	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	

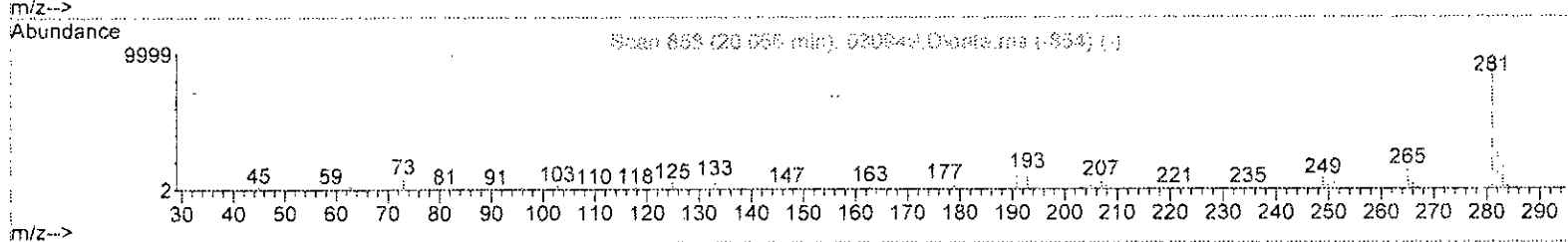
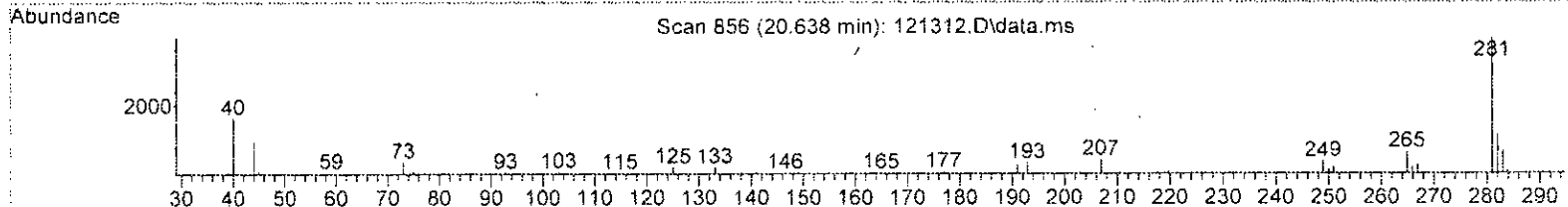
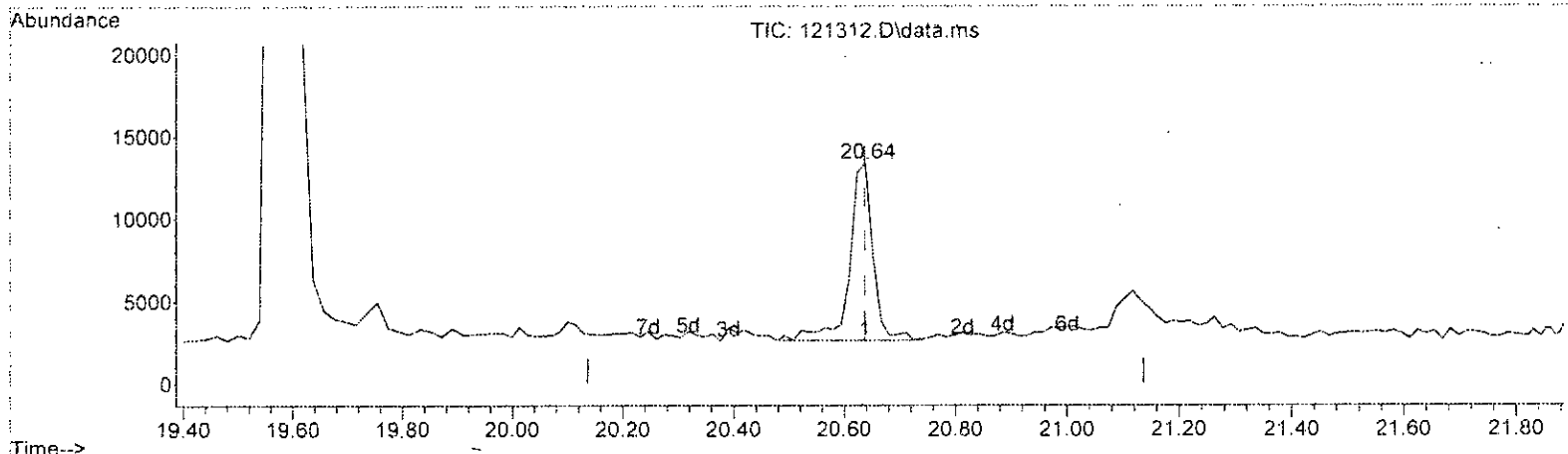
h  
12/14/22



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCMS7 Methods\120SAPH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121312.D\data.ms

(23) Octamethylcyclotetrasiloxane

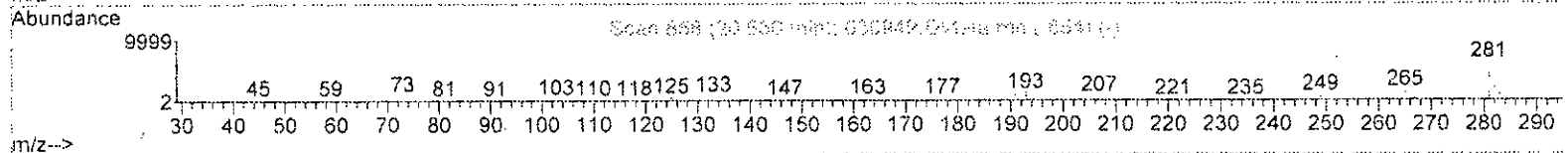
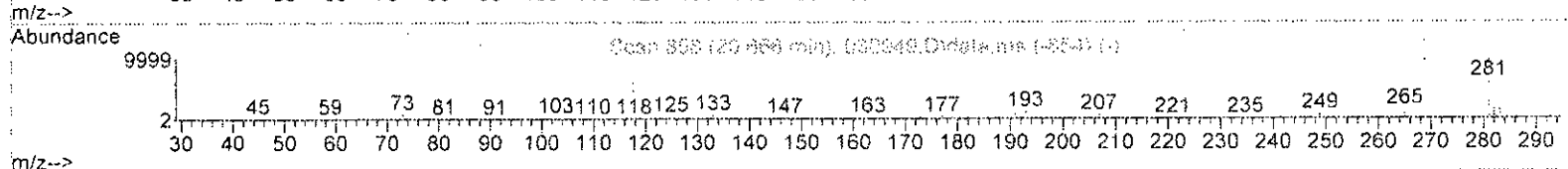
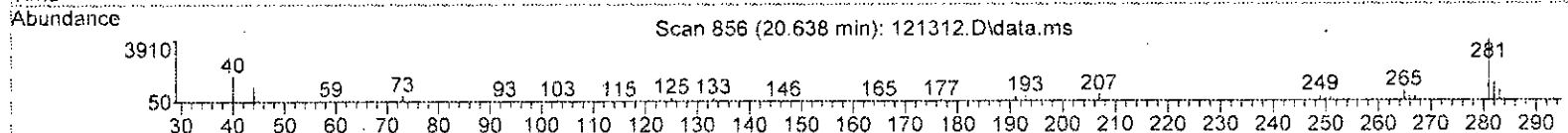
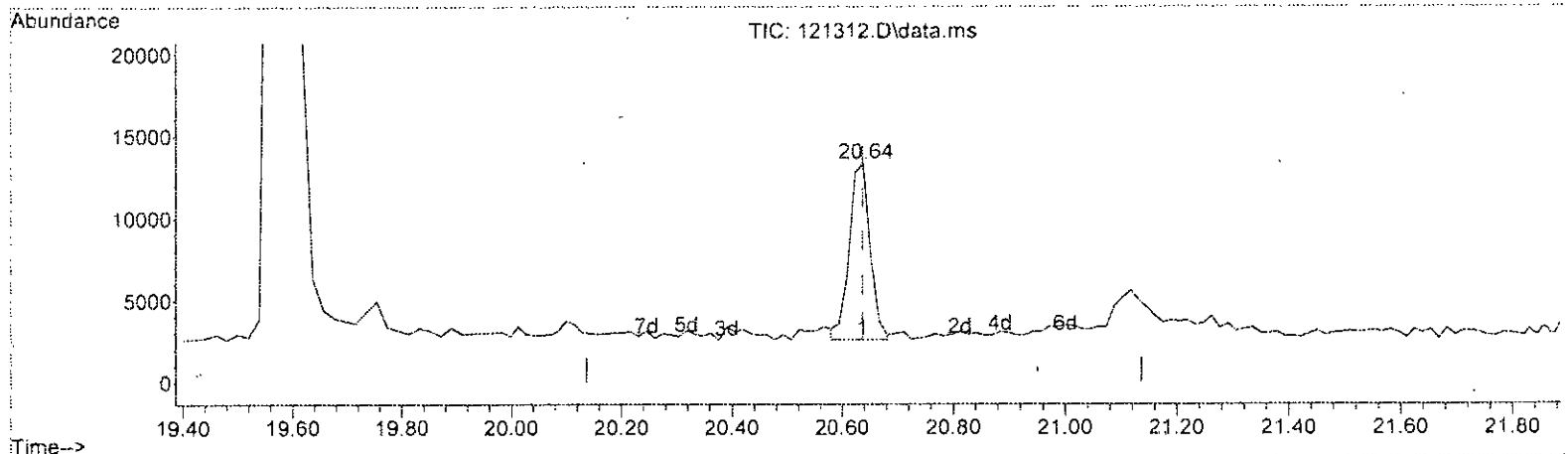
20.638min (+ 0.001) 41.782 ppbv

response	31544		
Signal	Exp%	Act%	
TIC	100.00	100.00	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH T0-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121312.D\data.ms

(23) Octamethylcyclotetrasiloxane

20.638min (+ 0.001) 36.723 ppbv m

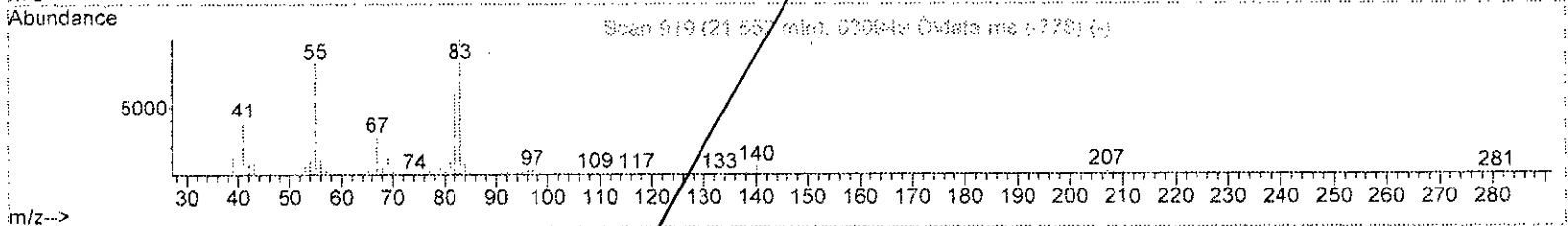
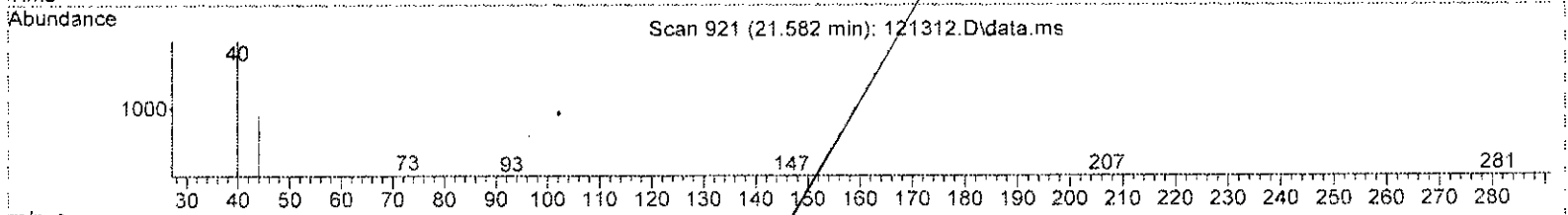
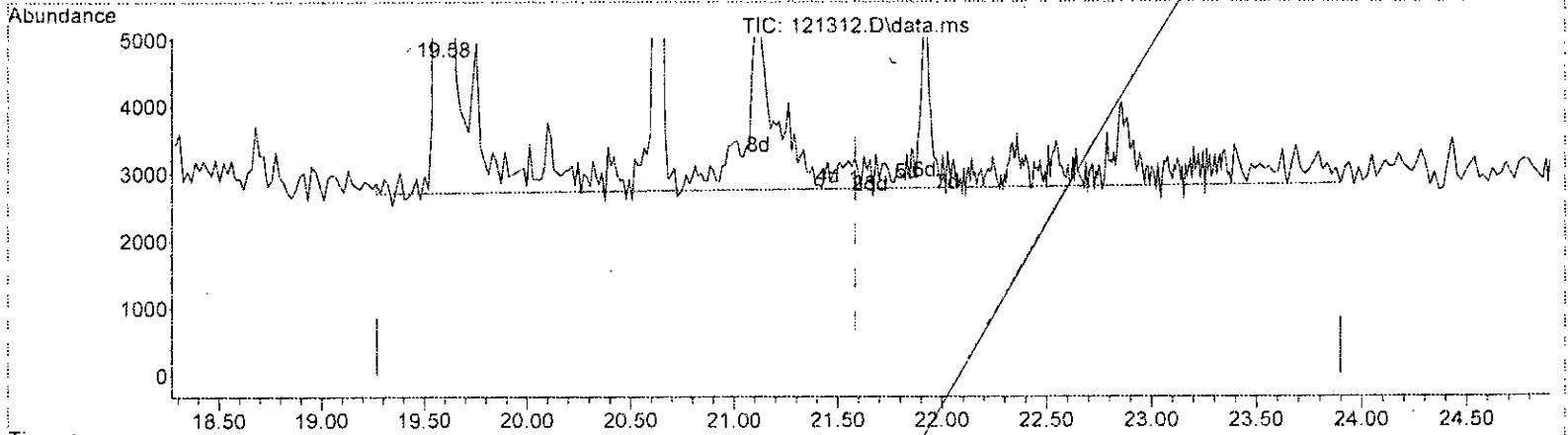
response 27724

Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCM57 Methods\1205APH7.M  
 Quant Title : APH T0-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121312.D\data.ms

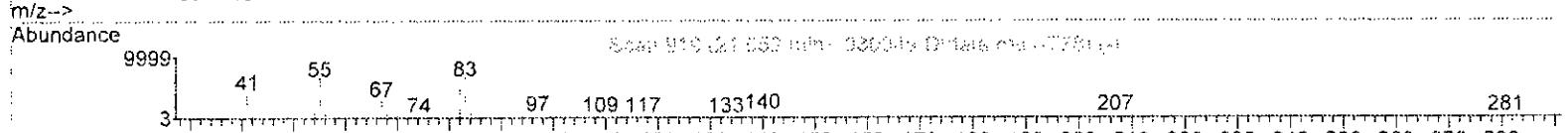
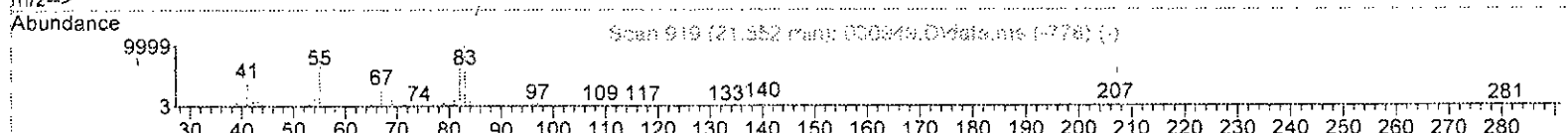
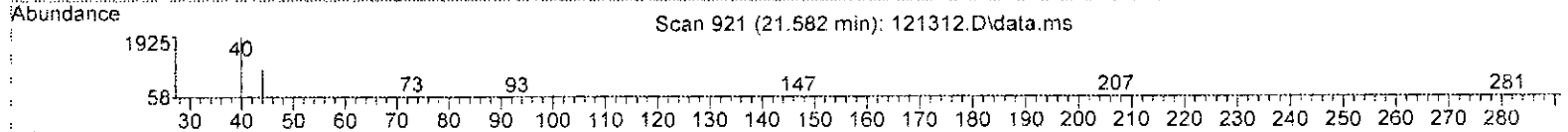
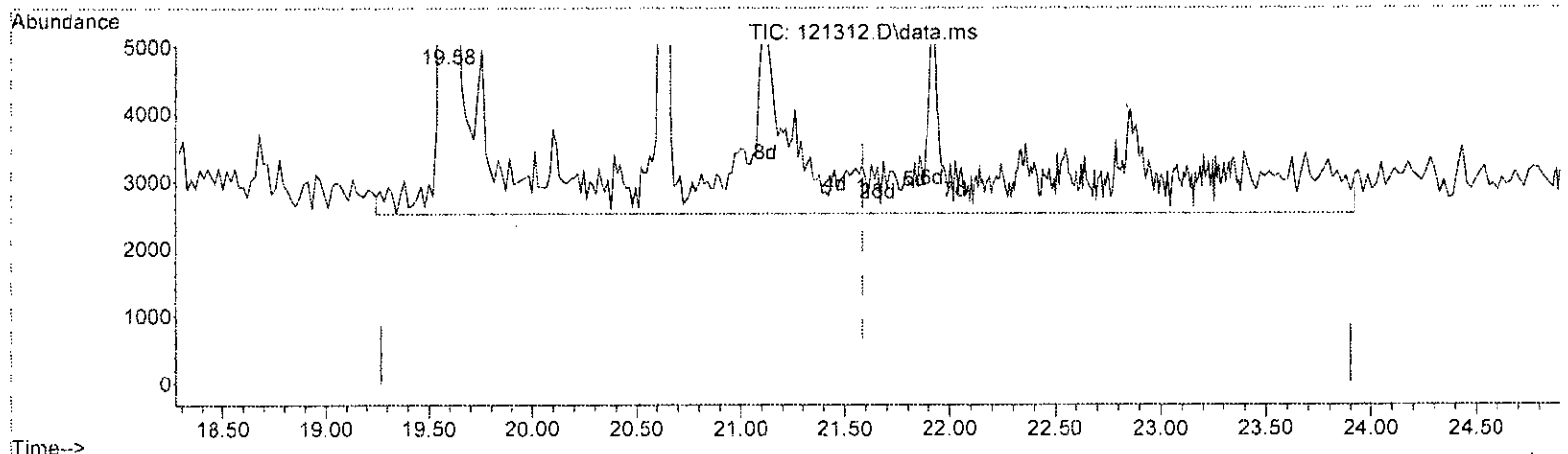
(36)	APH EC9-12 aliphatics (H)
21.585min ( 0.000)	-4.823 ug/m3 m
response	-73716
Signal	Exp% Act%
TIC	100.00 100.00
0.00	0.00 -0.00
0.00	0.00 -0.00
0.00	0.00 -0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121312.D\data.ms

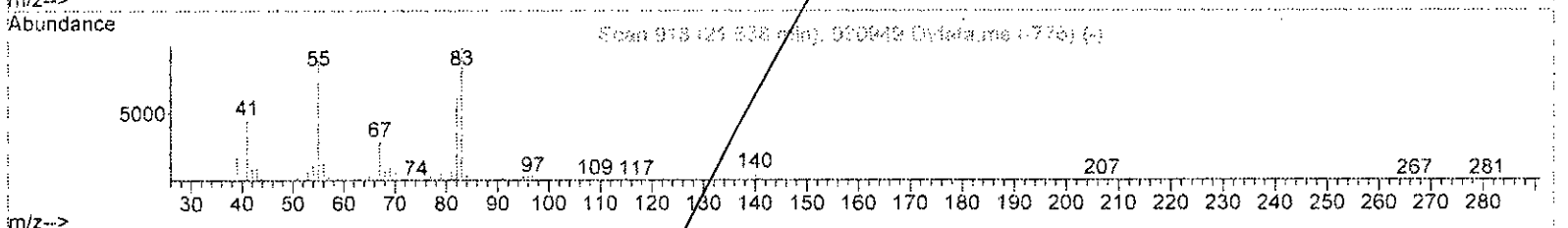
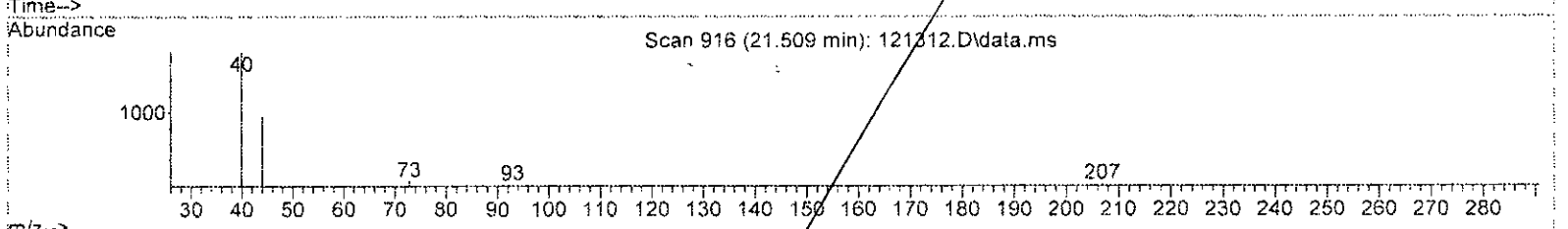
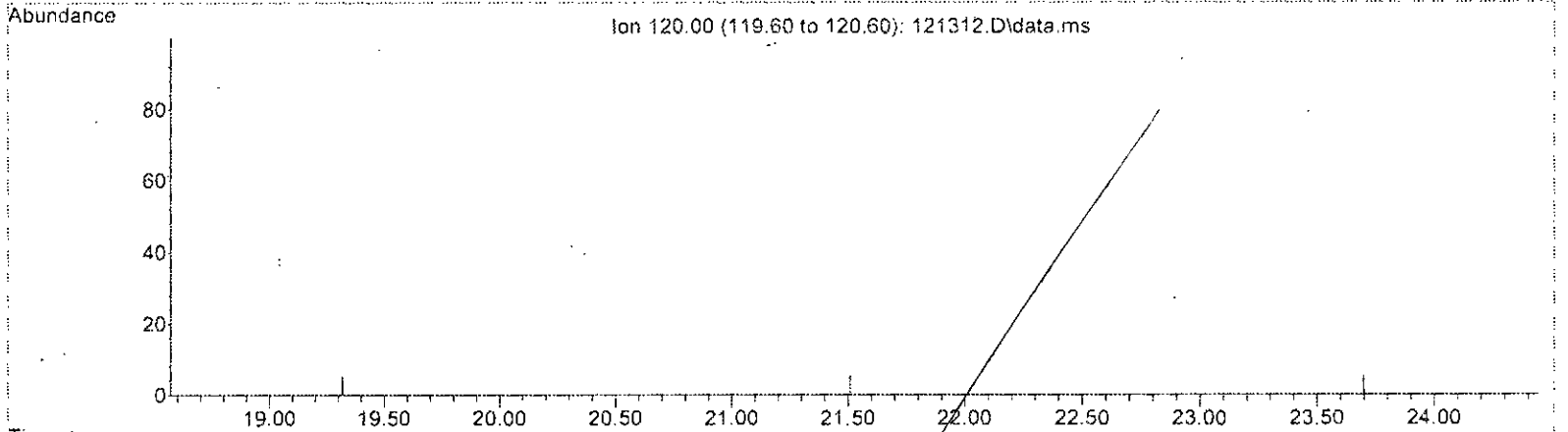
(36) APH EC9-12 aliphatics (H)		
21.585min ( 0.000) 33.766 ug/m3 m		
response	516132	
Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121312.D\data.ms

(44) APH EC9-10 aromatics (1) (H)

21.509min ( 0.000) -242.823 ug/m3 m

response -516619

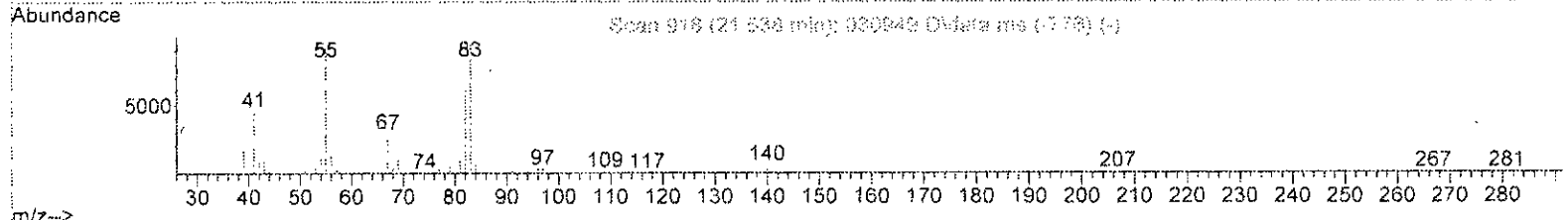
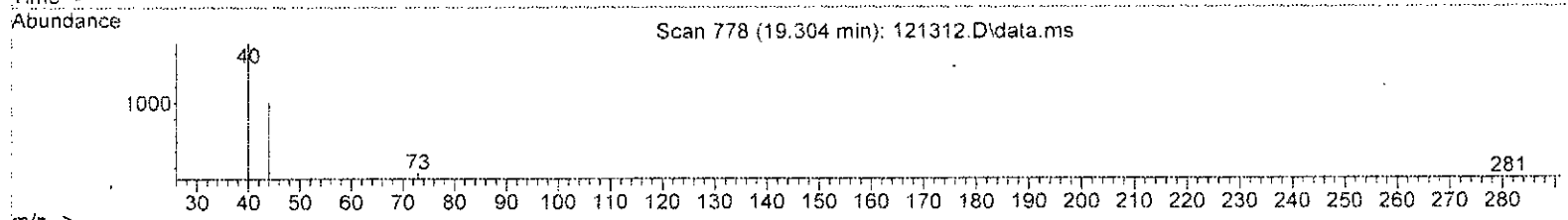
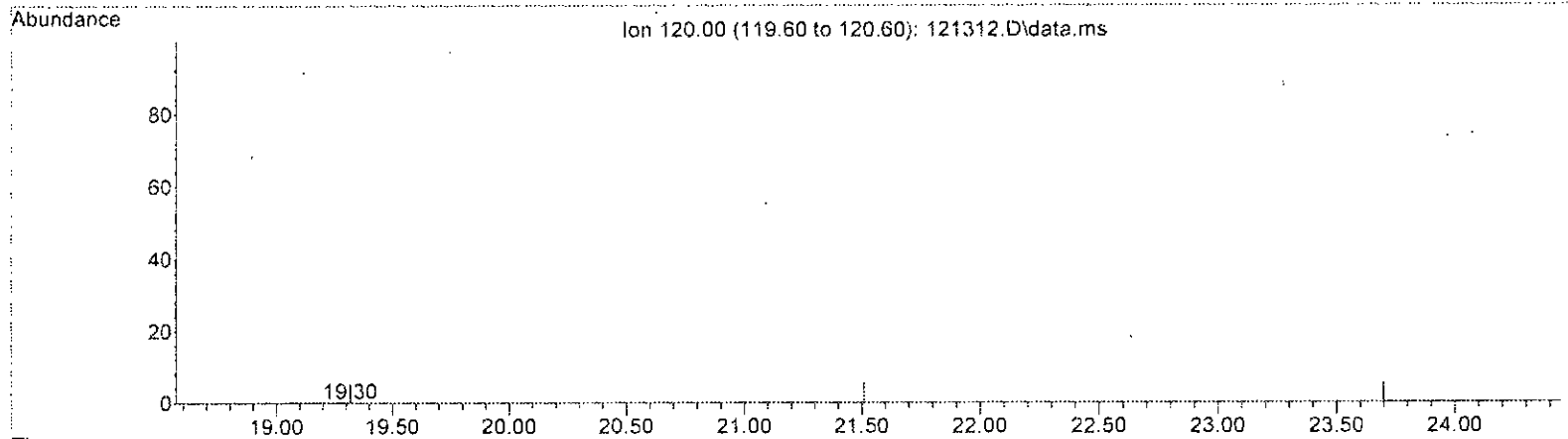
Ion	Exp%	Act%
120.00	100.00	100.00
0.00	0.00	-0.00
0.00	0.00	-0.00
0.00	0.00	-0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121312.D\data.ms

(44) APH EC9-10 aromatics (1) (H)

21.509min ( 0.000) 0.000 ug/m3 m

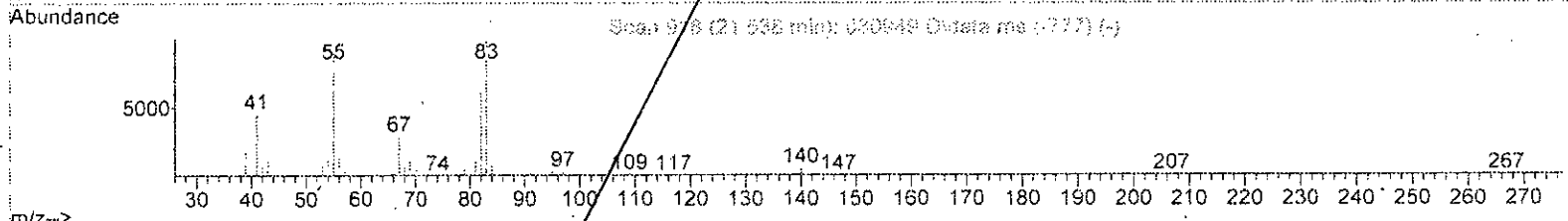
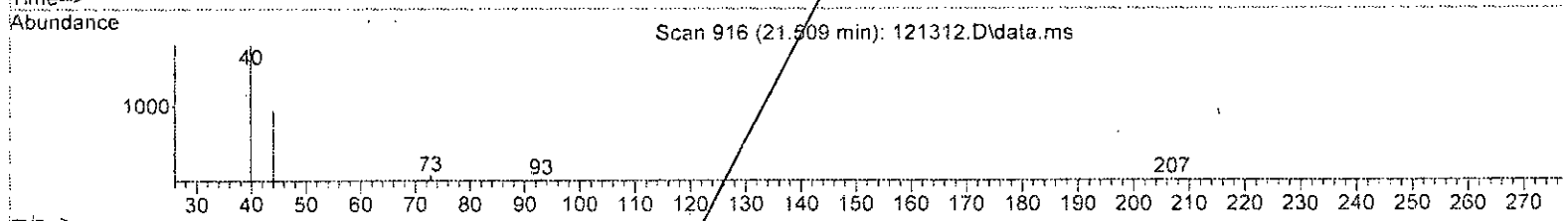
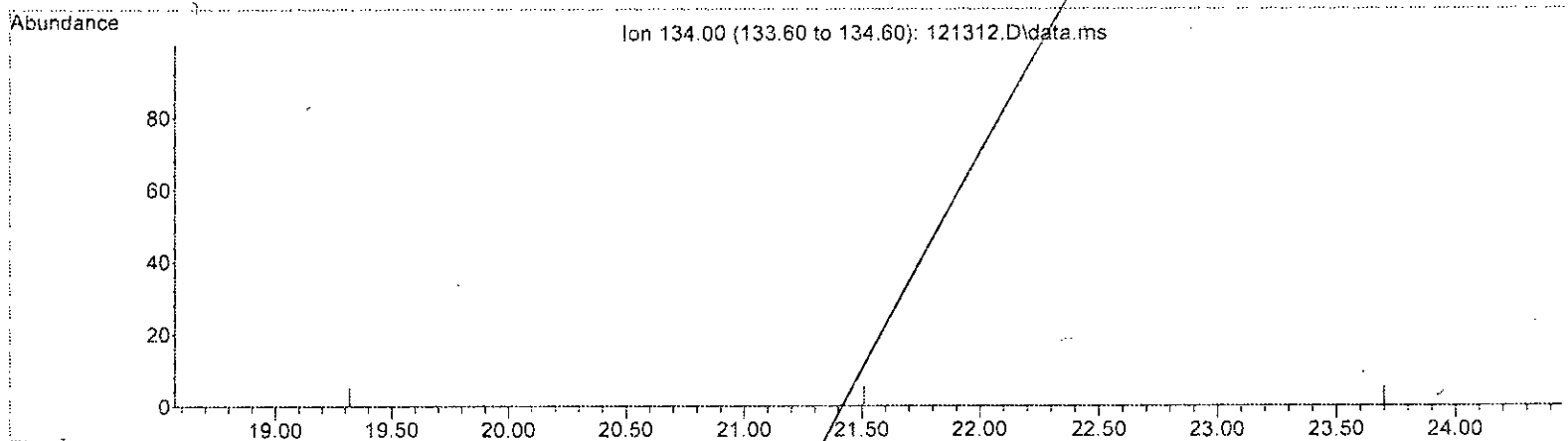
response	Ion	Exp%	Act%
0	120.00	-100.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121312.D\data.ms

(45) APH EC9-10 aromatics (2) (H)  
 21.509min ( 0.000) -418.068 ug/m3 m  
 response -516619

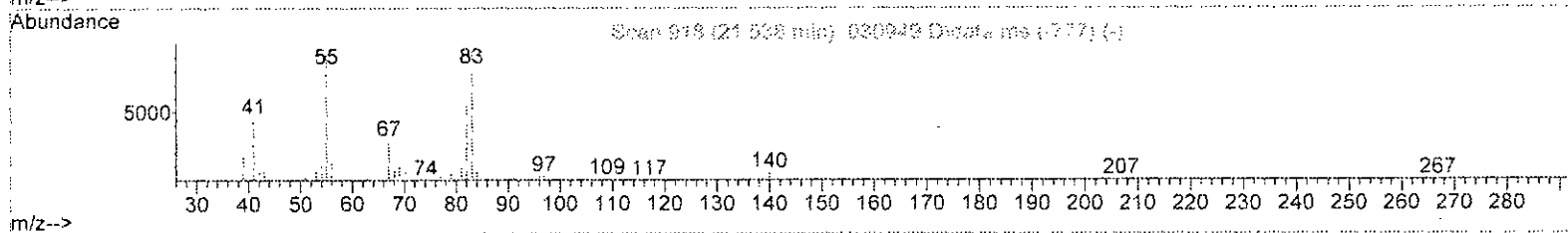
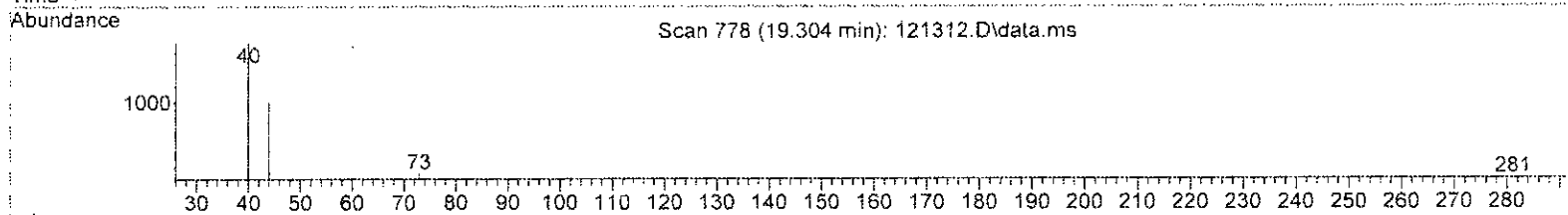
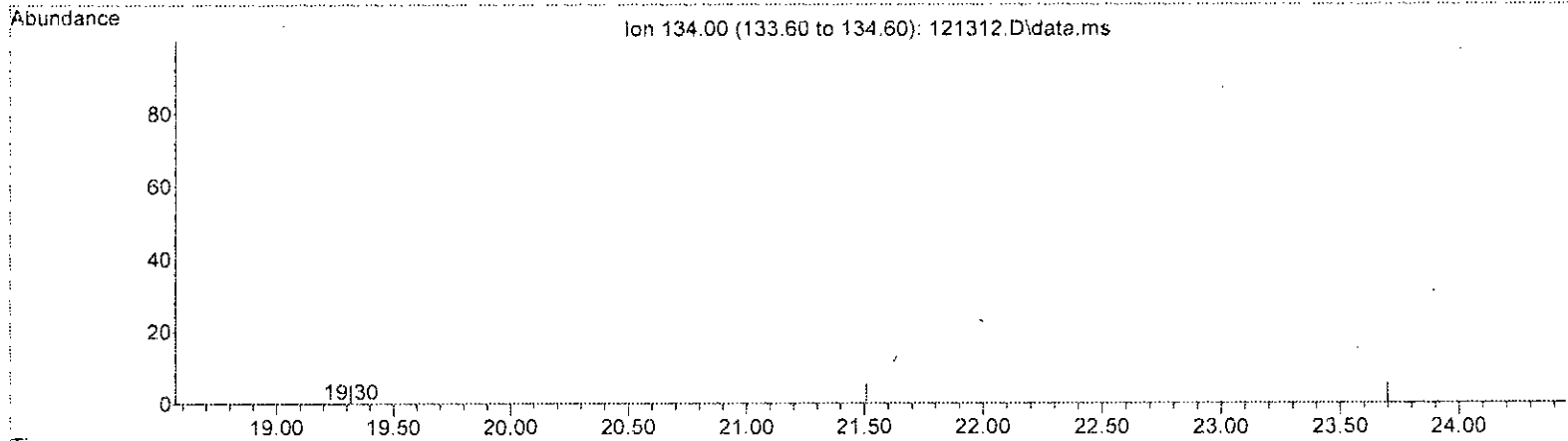
Ion	Exp%	Act%
134.00	100.00	100.00
0.00	0.00	-0.00
0.00	0.00	-0.00
0.00	0.00	-0.00

*h*  
*calculated*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121312.D\data.ms

(45) APH EC9-10 aromatics (2) (H)  
 21.509min ( 0.000) 0.000 ug/m3 m

response	0	
Ion	Exp%	Act%
134.00	100.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*u*  
*at*



Data Path : D:\Proc\_GCM57\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCM57 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	47986	50.000	ug/m3	#-0.02
10) 1,4-Difluorobenzene	13.14	114	191662	50.000	ug/m3	0.00
20) Chlorobenzene-d5	18.13	117	178213	50.000	ug/m3	0.00

System Monitoring Compounds						
37) 4-Bromofluorobenzene	19.58	95	104426	60.609	ug/m3	0.00
Spiked Amount	71.000	Range	70 - 130	Recovery	=	85.37%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) IS-1 Bromochloromethane	9.86	TIC	394439	51.799	ug/m3	91
3) IS-2 1,4-Difluorobenzene	13.14	TIC	508247	50.189	ug/m3	95
4) IS-3 Chlorobenzene-d5	18.13	TIC	580289	46.002	ug/m3	96
5) Methylene chloride	6.73	TIC	5305	31.046	ug/m3	70
6) Acetone	0.00		0	N.D.	d	
7) 2-Propanol	0.00		0	N.D.	d	
8) 1,3-Butadiene	0.00		0	N.D.		
9) Methyl t-butyl ether	0.00		0	N.D.		
11) Benzene	0.00		0	N.D.		
12) Isopentane	0.00		0	N.D.	d	
13) Hexane	0.00		0	N.D.	d	
14) Cyclohexane	0.00		0	N.D.	d	
15) 2,3-Dimethylpentane	0.00		0	N.D.	d	
16) Heptane	0.00		0	N.D.	d	
17) Octane	0.00		0	N.D.	d	
18) APH EC5-8 aliphatics T...	12.33		0	N.D.		
19) APH EC5-8 aliphatics	12.35	TIC	2325818m	170.290	ug/m3	
21) S 4-Bromofluorobenzene	19.58	TIC	524034	44.143	ug/m3	95
22) Hexamethylcyclotrisilo...	17.72	TIC	150520	44.797	ppbv	100
23) Octamethylcyclotetrasil...	20.64	TIC	27724m	36.723	ppbv	
24) Toluene	0.00		0	N.D.		
25) Ethylbenzene	18.54	91	61	N.D.		
26) m,p-Xylene	0.00		0	N.D.		
27) o-Xylene	0.00		0	N.D.		
28) Naphthalene	0.00		0	N.D.		
29) 2,3-Dimethylheptane	18.68	TIC	2965	0.172	ug/m3#	58
30) Nonane	19.38	TIC	1163	0.070	ug/m3#	60
31) Decane	20.81	TIC	1678	1.111	ug/m3#	59
32) Butylcyclohexane	21.45	TIC	573	0.027	ug/m3#	58
33) Dodecane	22.19	TIC	298	1.374	ug/m3#	64
34) Dodecane	23.69	TIC	1767	5.366	ug/m3#	73
35) APH EC9-12 aliphatics ...	21.58	TIC	8444m	0.552	ug/m3	
36) APH EC9-12 aliphatics	21.59	TIC	516132m	33.766	ug/m3	
38) Isopropylbenzene	0.00		0	N.D.		
39) 1-Methyl-3-ethylbenzene	0.00		0	N.D.		
40) 1,3,5-Trimethylbenzene	0.00		0	N.D.		
41) p-Isopropyltoluene	0.00		0	N.D.		
42) 1,2,3-Trimethylbenzene	0.00		0	N.D.		

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

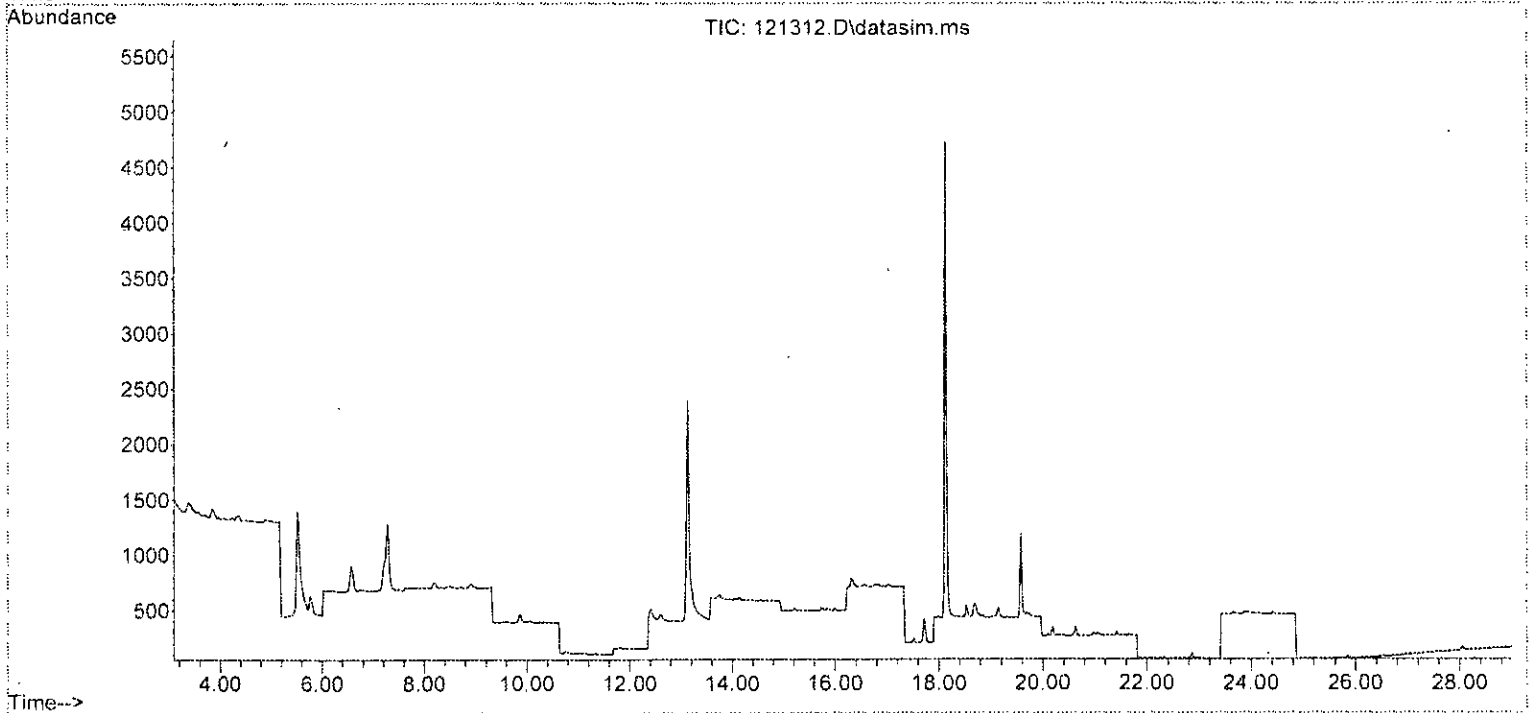
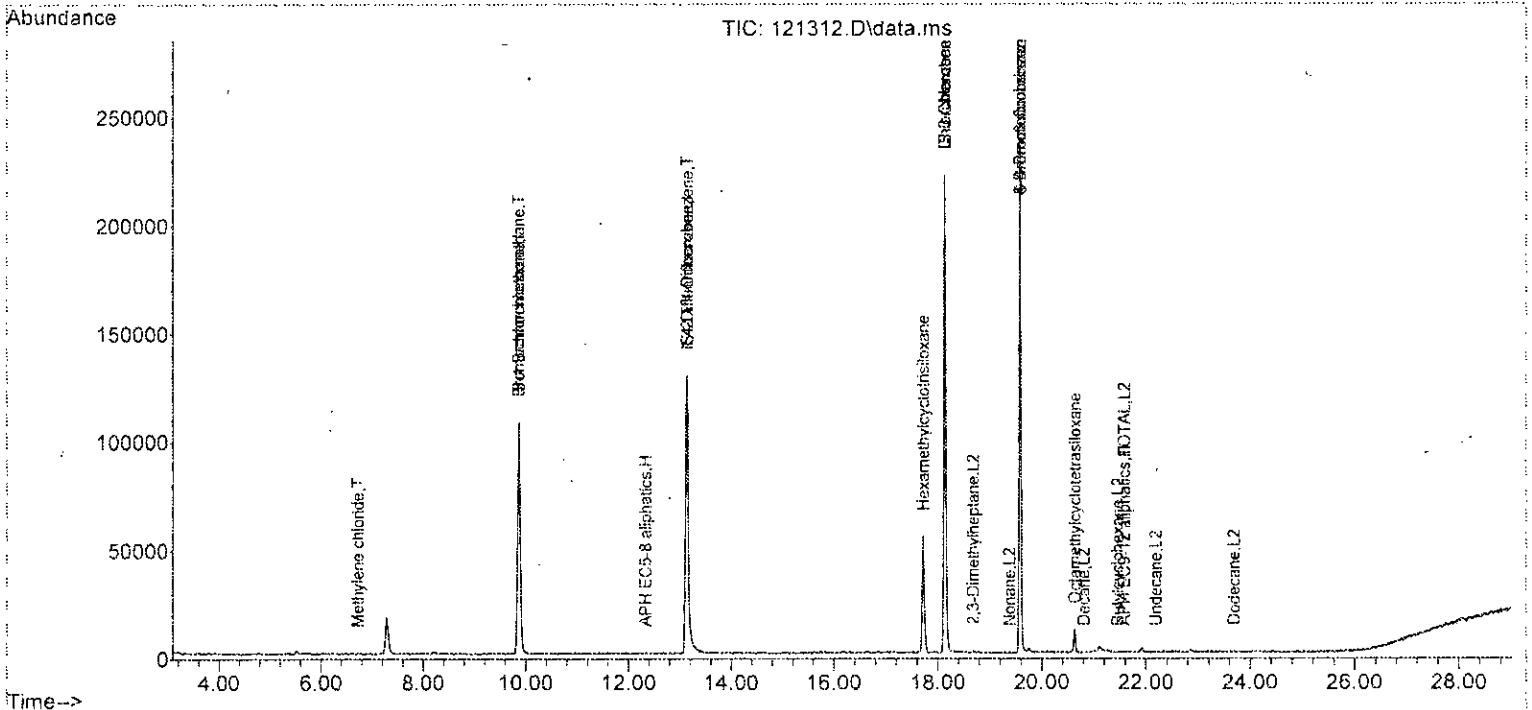
Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH T0-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) APH EC9-10 aromatics T...	21.45		0		N.D.	
44) APH EC9-10 aromatics (1)	21.51		0		N.D.	
45) APH EC9-10 aromatics (2)	21.51		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 21:11:52 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

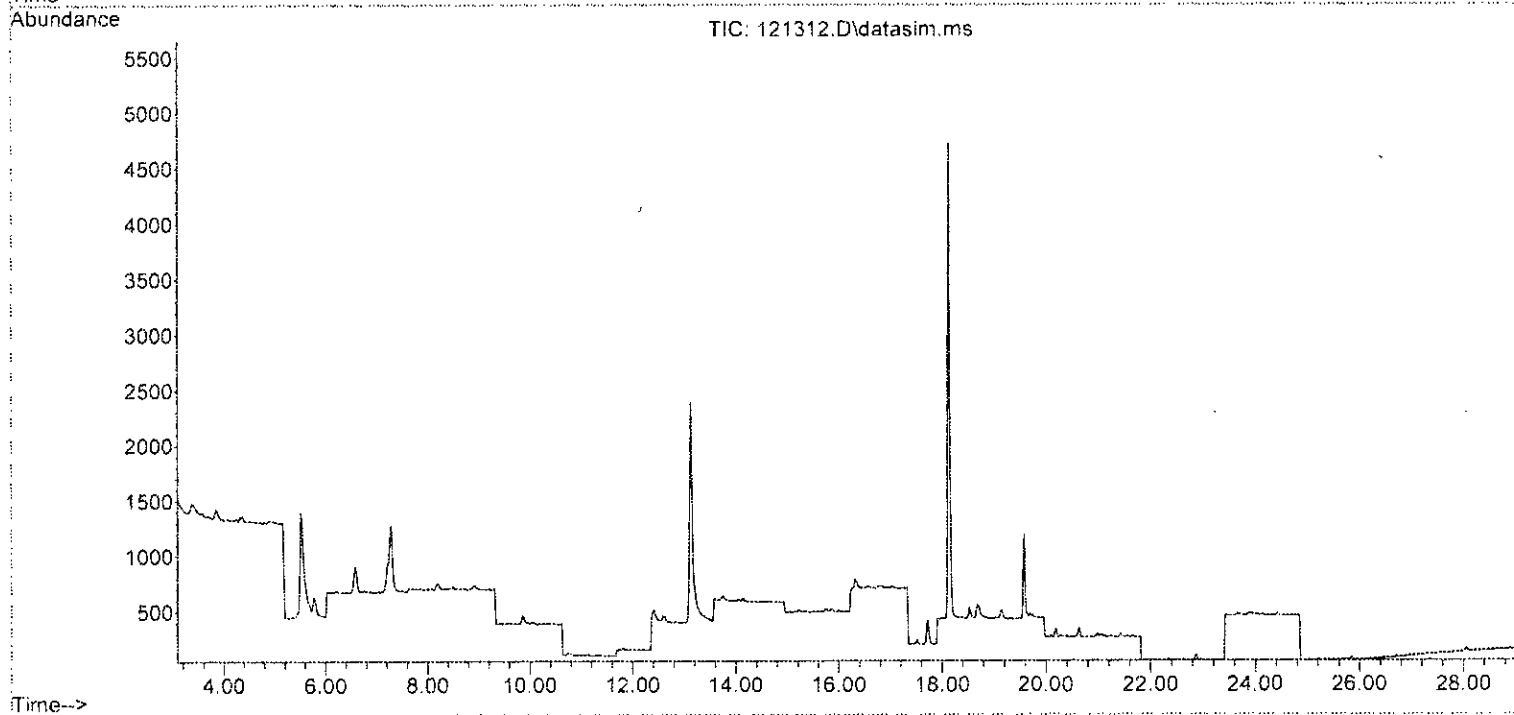
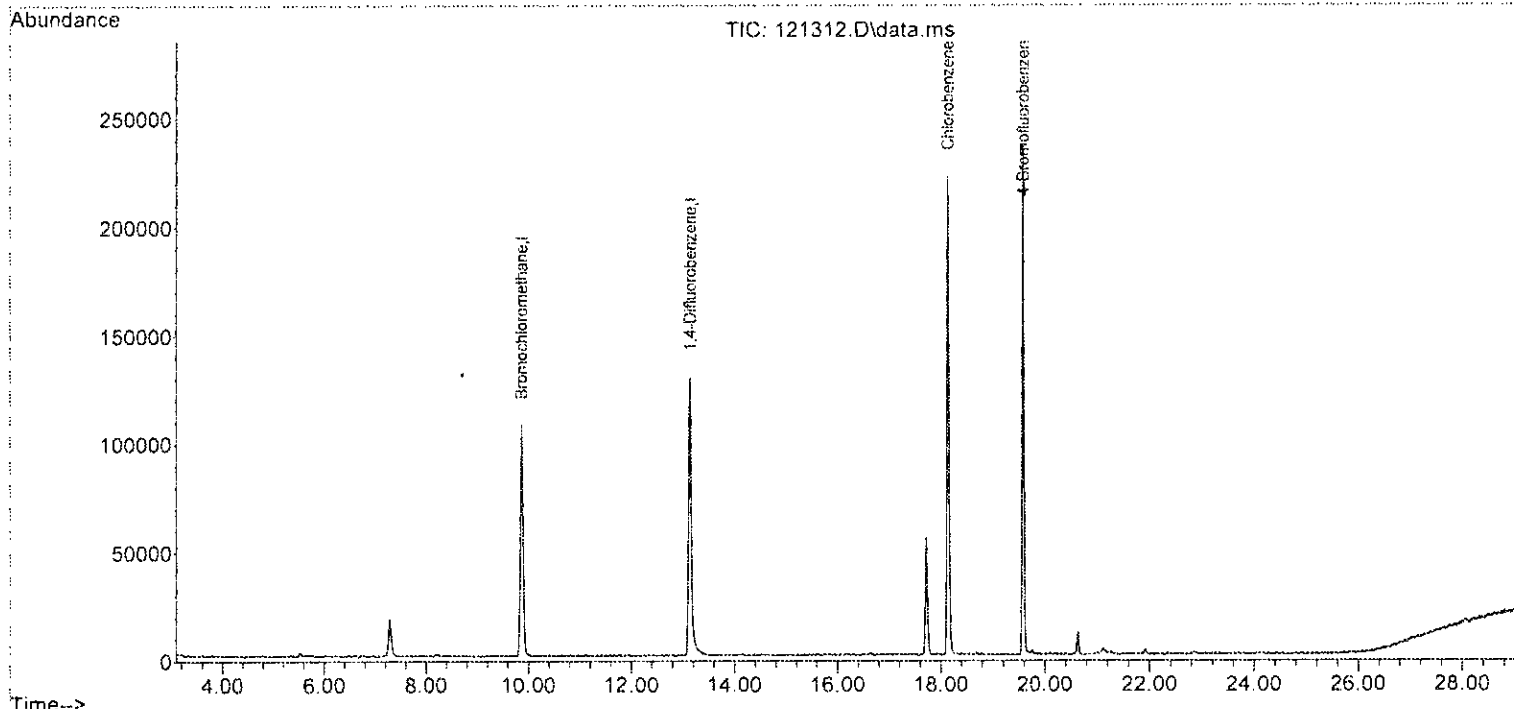
Quant Time: Dec 14 14:56:01 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

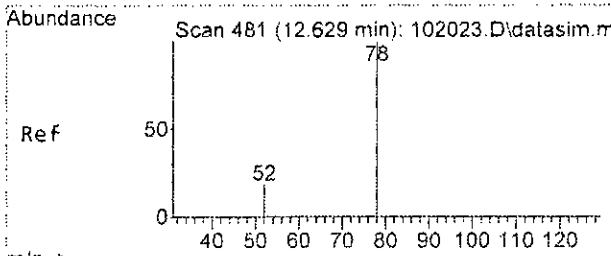
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Bromochloromethane	9.86	128	47986	10.000	ppbv	-0.02	
39) 1,4-Difluorobenzene	13.14	114	191662	10.000	ppbv	0.00	
56) Chlorobenzene-d5	18.13	117	178213	10.000	ppbv	0.00	
System Monitoring Compounds							
69) 4-Bromofluorobenzene	19.58	95	104426	8.455	ppbv	0.00	
Spiked Amount	10.000	Range	70 - 130	Recovery	=	84.60%	
Target Compounds							
37] Benzene	12.61	78	231	Below Cal		99	Qvalue
58] Ethylbenzene	18.53	91	193	Below Cal		94	
77] Naphthalene	23.88	128	165	Below Cal		87	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-13-22\  
Data File : 121312.D  
Acq On : 13 Dec 2022 8:01 pm  
Operator : bat  
Sample : 02-2958 MB  
Misc : T1  
ALS Vial : 12 Sample Multiplier: 1  
InstName : GCMS7

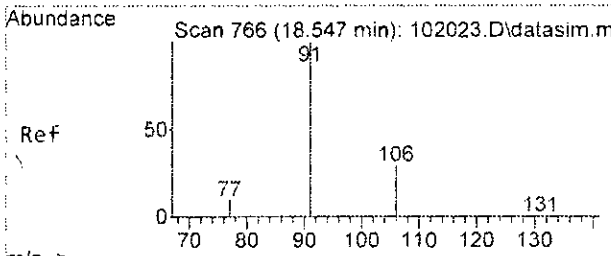
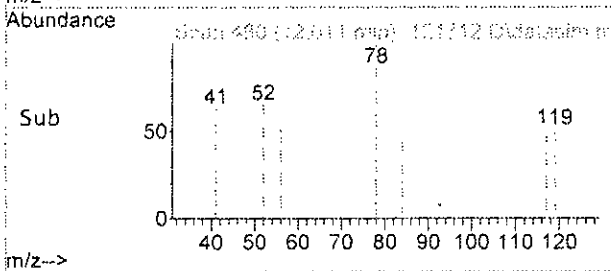
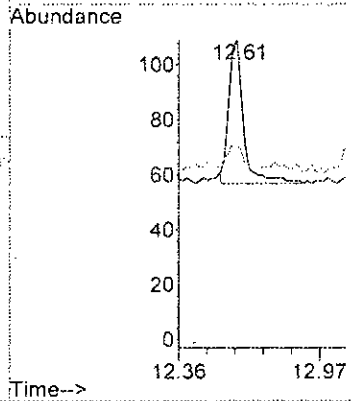
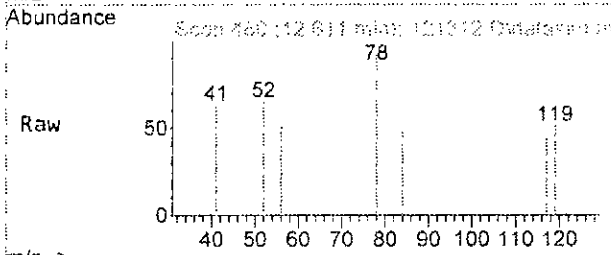
Quant Time: Dec 14 14:56:01 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M





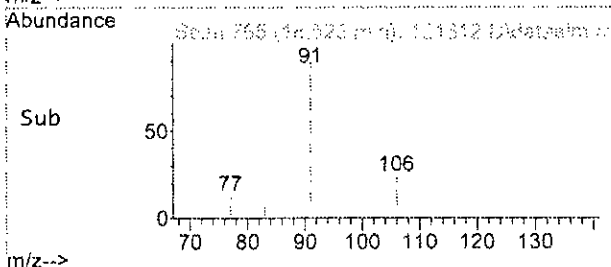
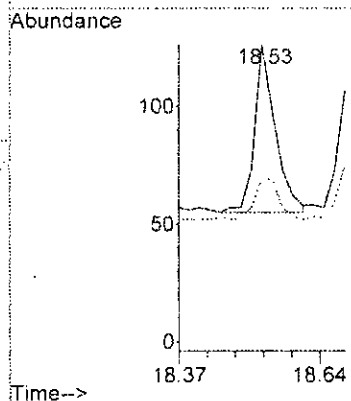
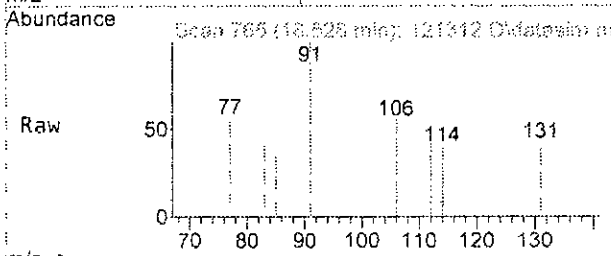
#37  
Benzene  
Concen: Below Cal  
RT: 12.61 min Scan# 480  
Delta R.T. 0.000 min  
Lab File: 121312.D  
Acq: 13 Dec 2022 8:01 pm

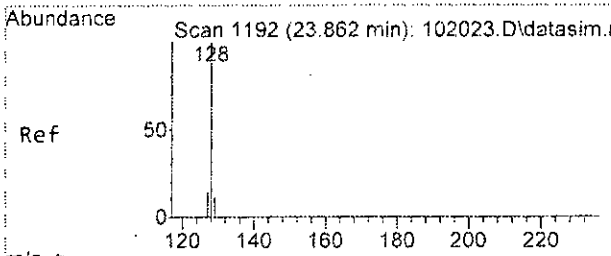
Tgt Ion: 78 Resp: 231  
Ion Ratio Lower Upper  
78 100  
52 19.2 0.0 49.7



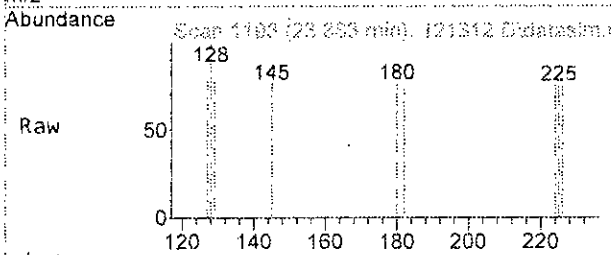
#58  
Ethylbenzene  
Concen: Below Cal  
RT: 18.53 min Scan# 765  
Delta R.T. 0.000 min  
Lab File: 121312.D  
Acq: 13 Dec 2022 8:01 pm

Tgt Ion: 91 Resp: 193  
Ion Ratio Lower Upper  
91 100  
106 23.9 0.0 57.0



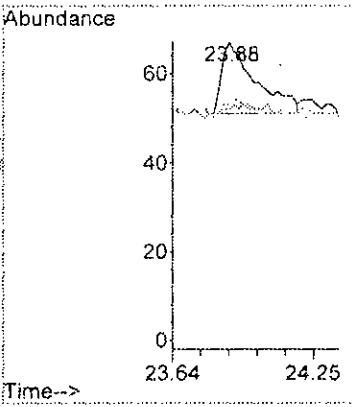
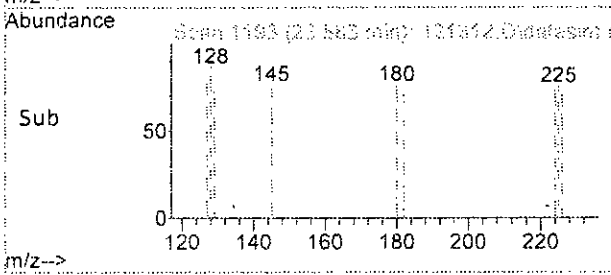


#77  
 Naphthalene  
 Concen: Below Cal  
 RT: 23.88 min Scan# 1193  
 Delta R.T. 0.042 min  
 Lab File: 121312.D  
 Acq: 13 Dec 2022 8:01 pm



Tgt Ion: 128 Resp: 165

Ion	Ratio	Lower	Upper
128	100		
129	6.3	0.0	41.0
127	18.8	0.0	43.2



Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.Q  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:01 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	47986	10.000	ppbv	-0.02
39) 1,4-Difluorobenzene	13.14	114	191662	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	178213	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	104426	8.455	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	84.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0		N.D.	
3) Dichlorodifluoromethane	0.00		0		N.D.	
4) Chloromethane	0.00		0		N.D.	
5) F-114	0.00		0		N.D.	
6) Vinyl chloride	0.00		0		N.D.	
7) 1,3-Butadiene	0.00		0		N.D.	
8) Butane	0.00		0		N.D.	
9) Bromomethane	0.00		0		N.D.	
10) Chloroethane	0.00		0		N.D.	
11) Vinyl bromide	0.00		0		N.D. d	
12) Ethanol	0.00		0		N.D.	
13) Acrolein	0.00		0		N.D.	
14) Pentane	0.00		0		N.D.	
15) Trichlorofluoromethane	0.00		0		N.D.	
16) Acetone	5.53	58	970		N.D.	
17) 2-Propanol	5.78	45	486		N.D.	
18) 1,1-Dichloroethene	0.00		0		N.D.	
19) trans-1,2-Dichloroethene	0.00		0		N.D.	
20) Methylene chloride	6.73	84	450		N.D.	
21) t-Butyl alcohol (TBA)	0.00		0		N.D.	
22) 3-Chloropropene	0.00		0		N.D.	
23) CFC-113	0.00		0		N.D.	
24) Carbon disulfide	7.23	76	936		N.D.	
25) Methyl t-butyl ether (...)	0.00		0		N.D.	
26) Vinyl acetate	0.00		0		N.D.	
27) 1,1-Dichloroethane	0.00		0		N.D.	
28) cis-1,2-Dichloroethene	0.00		0		N.D.	
29) Hexane	0.00		0		N.D.	
30) Chloroform	0.00		0		N.D.	
31) Ethyl acetate	0.00		0		N.D.	
32) Tetrahydrofuran	0.00		0		N.D.	
33) 2-Butanone (MEK)	0.00		0		N.D.	
34) 1,2-Dichloroethane (EDC)	0.00		0		N.D. d	
35) 1,1,1-Trichloroethane	11.68	97	133		N.D.	
36) Carbon tetrachloride	0.00		0		N.D.	
37] Benzene	12.61	78	231	Below Cal		99
38) Cyclohexane	0.00		0		N.D. d	
40) 1,2-Dichloropropane	0.00		0		N.D. d	



Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

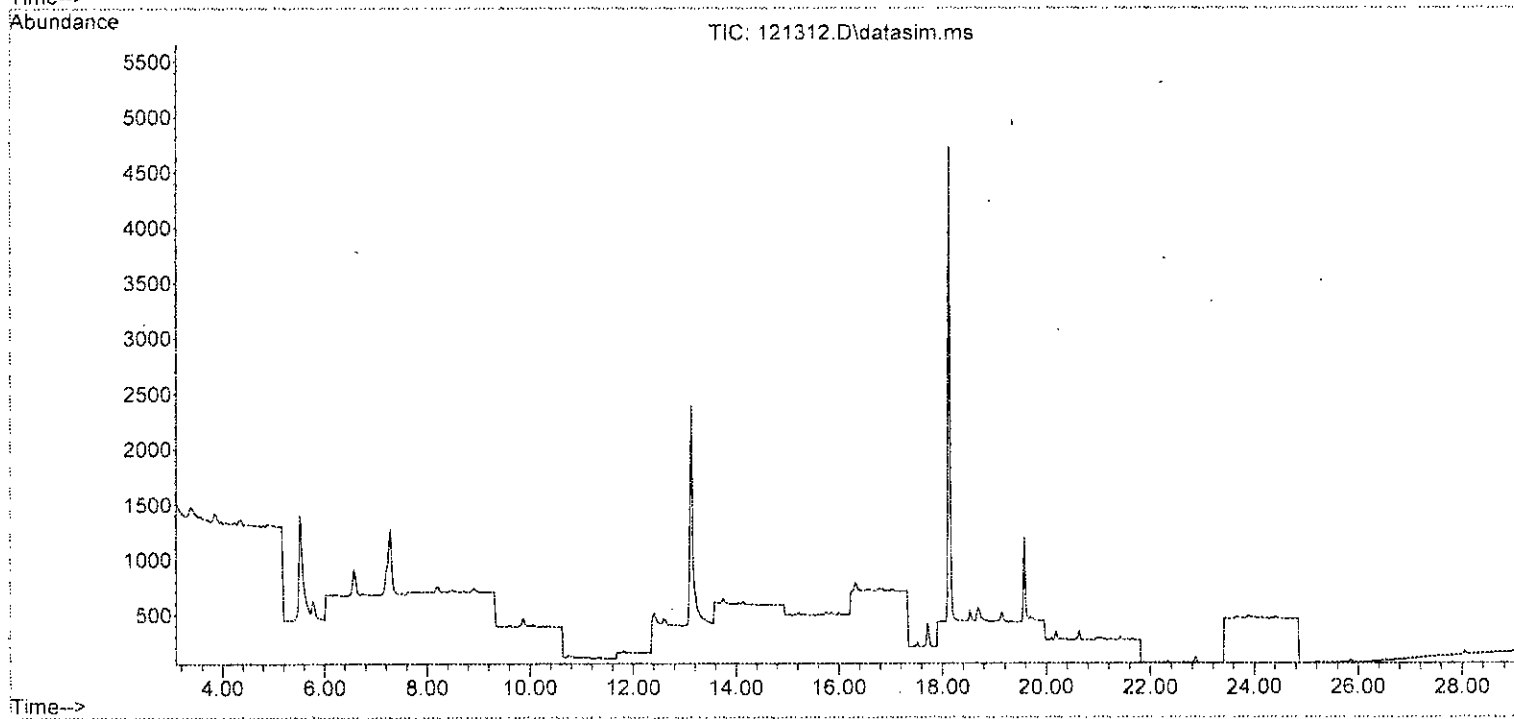
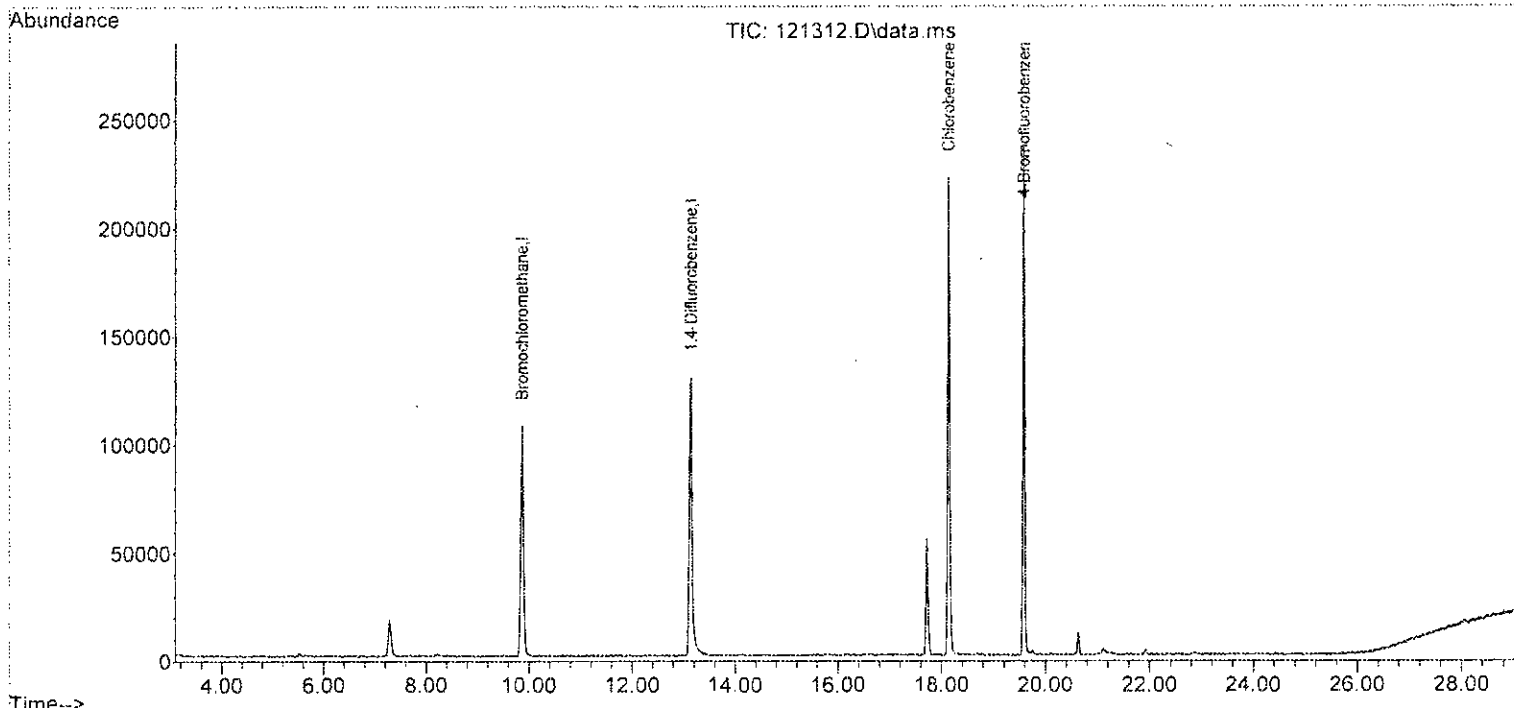
Quant Time: Dec 14 14:56:01 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D.	
43) Methyl methacrylate	0.00		0		N.D.	
44) Heptane	0.00		0		N.D.	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	0.00		0		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	15.74	75	119		N.D.	
50) Toluene	16.31	92	1004		N.D.	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	0.00		0		N.D.	
53) Tetrachloroethene	17.35	164	273		N.D.	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58] Ethylbenzene	18.53	91	193	Below Cal		94
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
60) Nonane	0.00		0		N.D.	
61) Isopropylbenzene	0.00		0		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	20.20	91	224		N.D.	
64) 4-Ethyltoluene	20.38	105	187		N.D.	
65) m,p-Xylene	18.70	106	141		N.D.	
66) o-Xylene	0.00		0		N.D.	
67) Styrene	0.00		0		N.D.	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D.	
71) 1,3,5-Trimethylbenzene	20.38	105	187		N.D.	
72) 1,2,4-Trimethylbenzene	20.38	105	187		N.D.	
73) 1,3-Dichlorobenzene	0.00		0		N.D.	
74) 1,4-Dichlorobenzene	0.00		0		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77] Naphthalene	23.88	128	165	Below Cal		87
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121312.D  
 Acq On : 13 Dec 2022 8:01 pm  
 Operator : bat  
 Sample : 02-2958 MB  
 Misc : T1  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

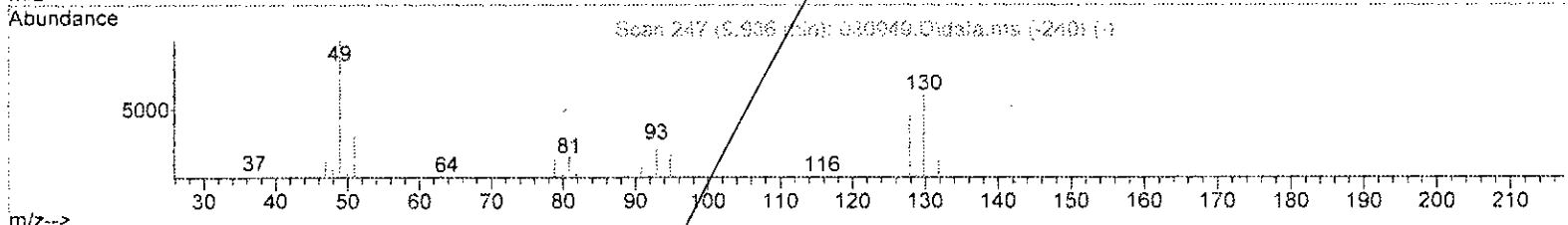
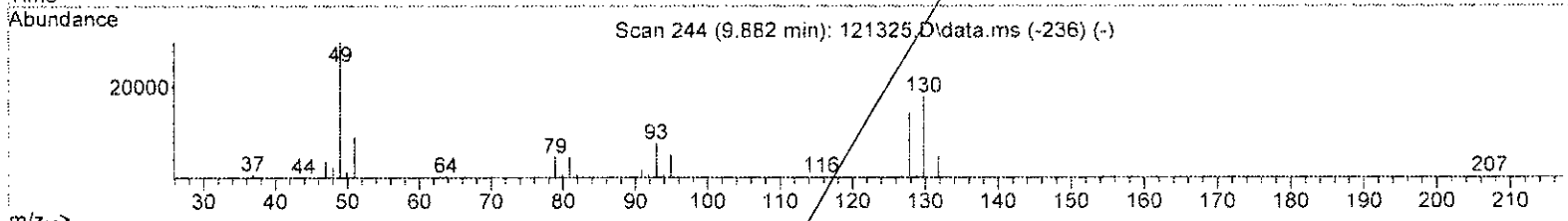
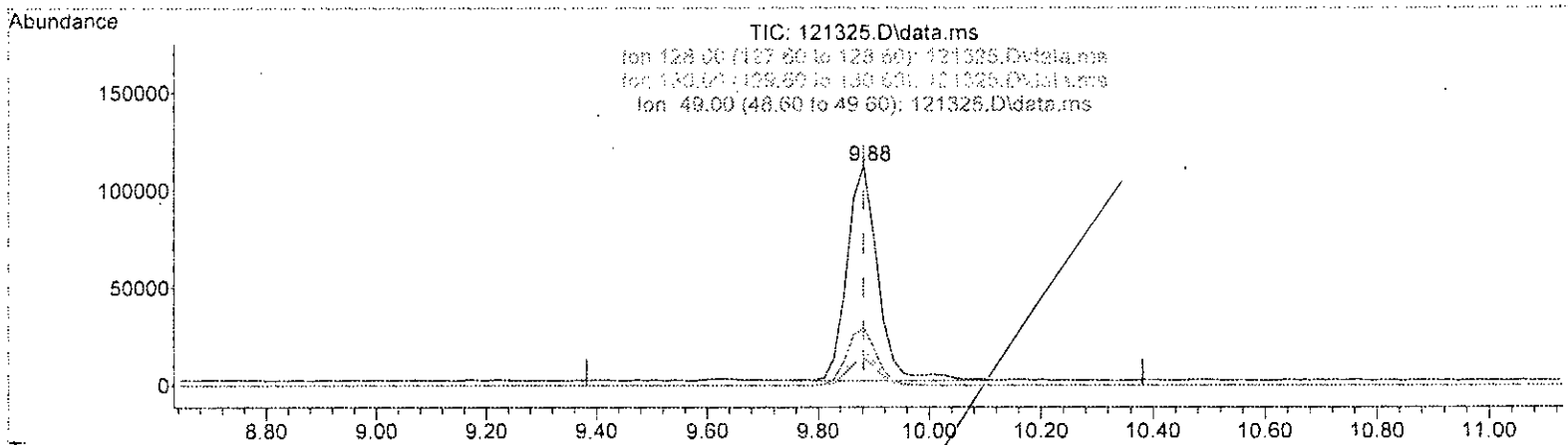
Quant Time: Dec 14 14:56:01 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121325.D\data.ms

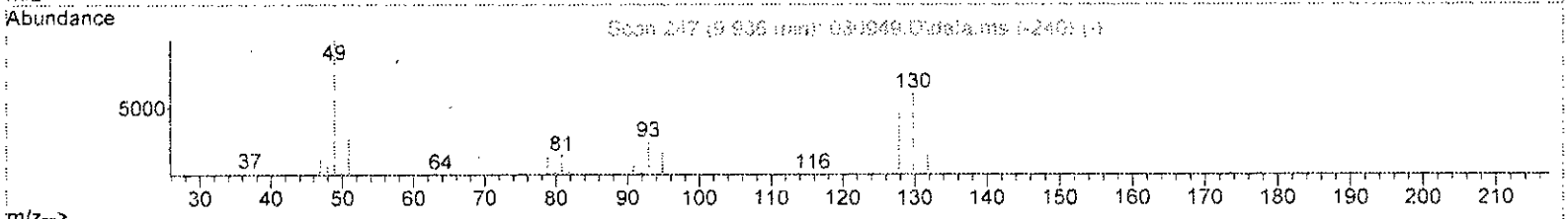
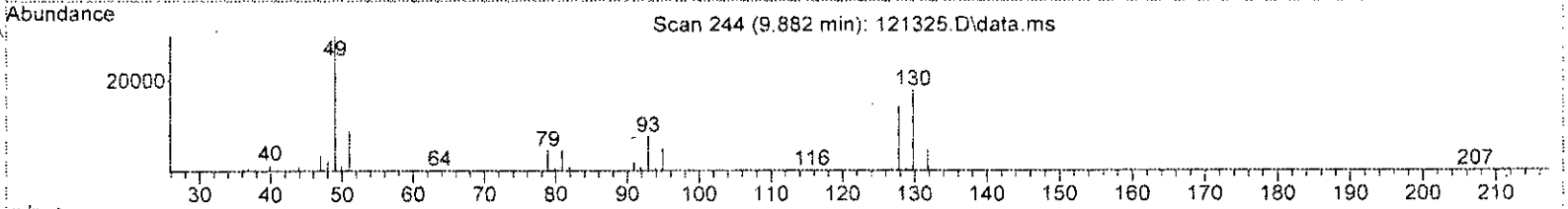
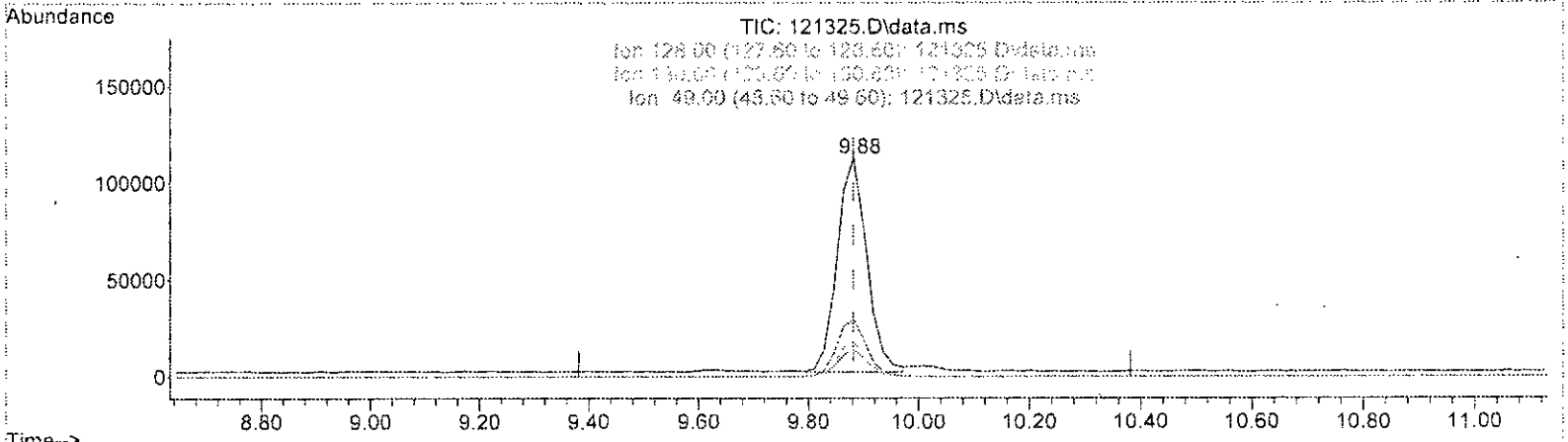
(2) IS-1 Bromochloromethane (T)		
9.882min (+ 0.000)	52.219 ug/m3	
response	423603	
Signal	Exp%	Act%
TIC	100.00	100.00
128.00	14.80	12.74
130.00	19.20	16.07
49.00	20.60	26.97

*bat*  
*12/15/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH T0-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121325.D\data.ms

(2) IS-1 Bromochloromethane (T)

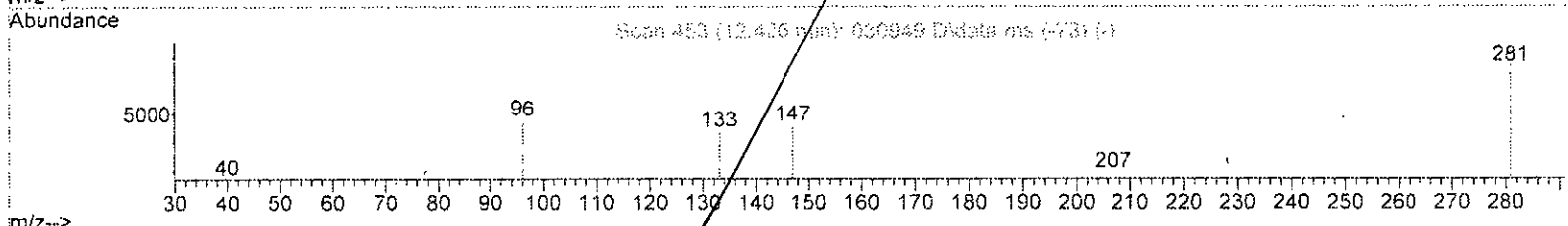
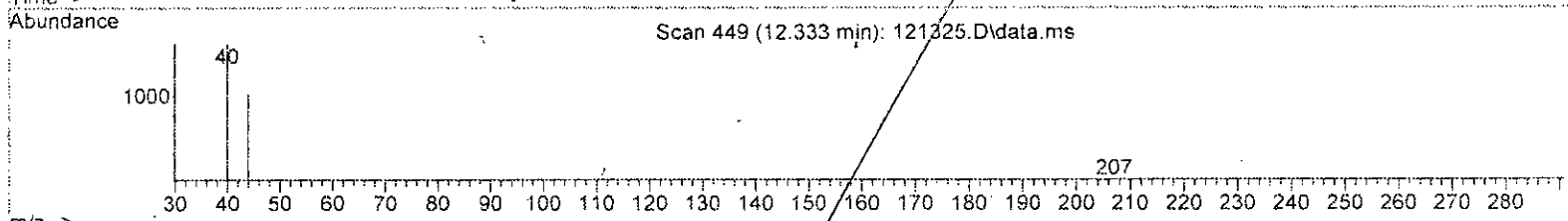
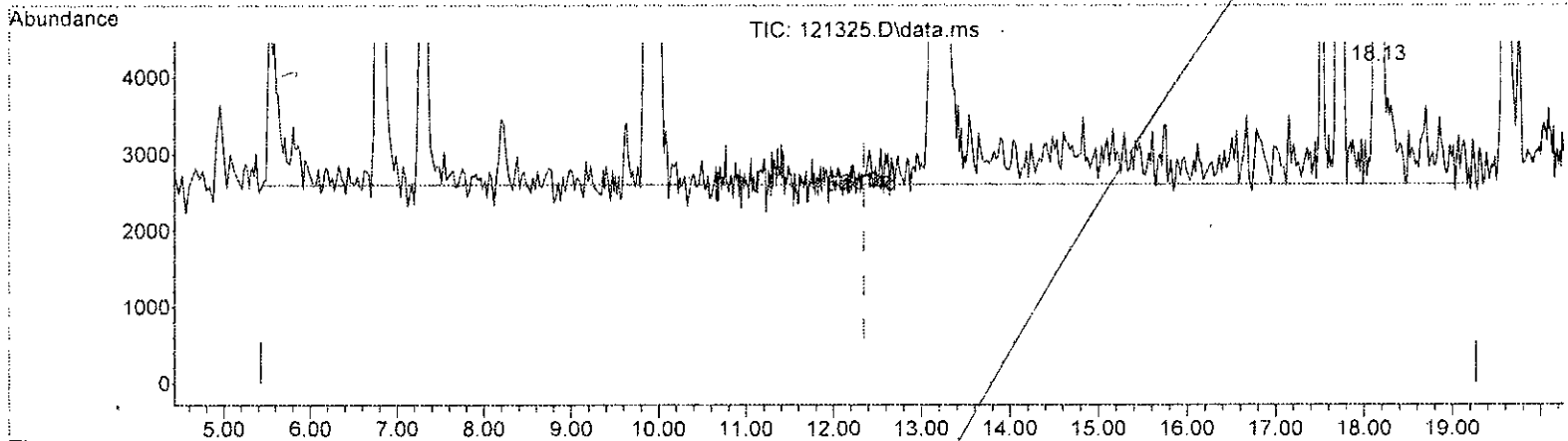
Retention Time (min)	Response	Exp%	Act%
9.882min (+ 0.000)	50.722 ug/m3 m		
response	411460		
Signal	Exp%	Act%	
TIC	100.00	100.00	
128.00	14.80	13.12	
130.00	19.20	16.55	
49.00	20.60	27.77	

*Handwritten signature: h. alster*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121325.D\data.ms

(19) APH EC5-8 aliphatics (H)

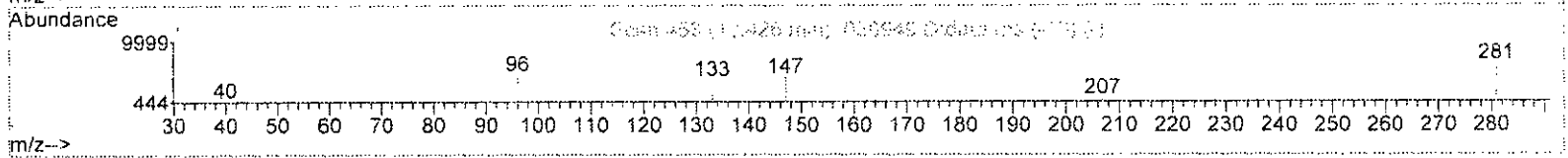
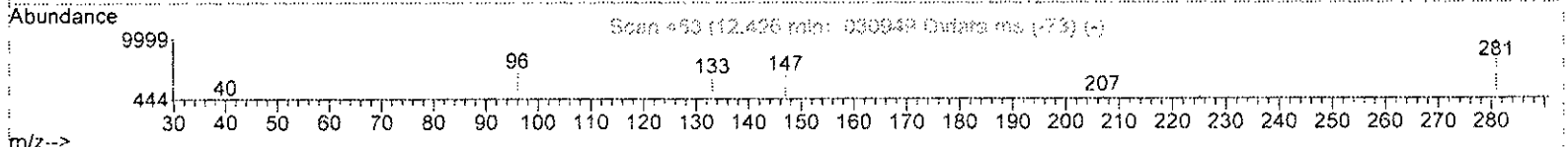
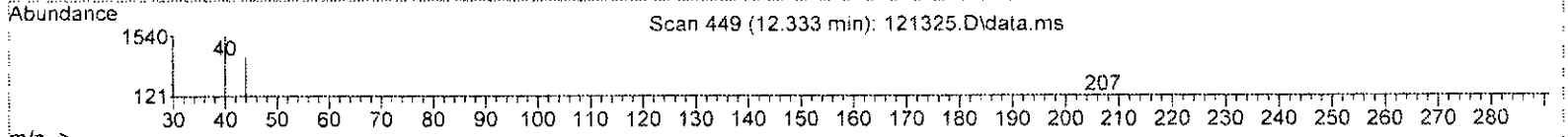
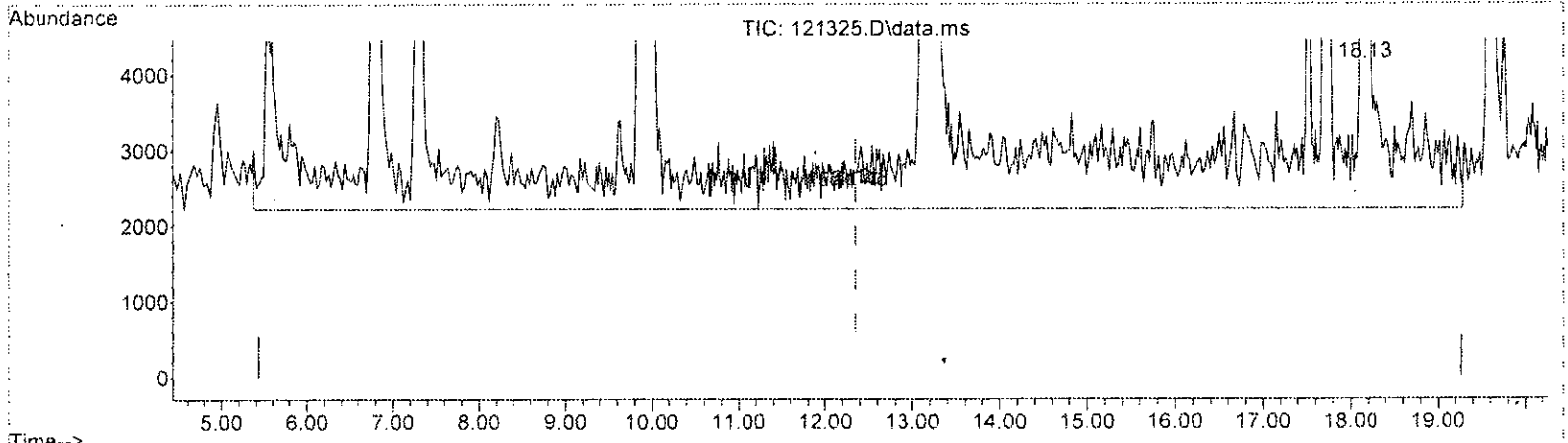
12.350min ( 0.000)	36.309 ug/m3 m
response	530788
Signal	Exp% Act%
TIC	100.00 100.00
0.00	0.00 0.00
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121325.D\data.ms

(19) APH EC5-8 aliphatics (H)

12.350min ( 0.000) 165.521 ug/m3 m

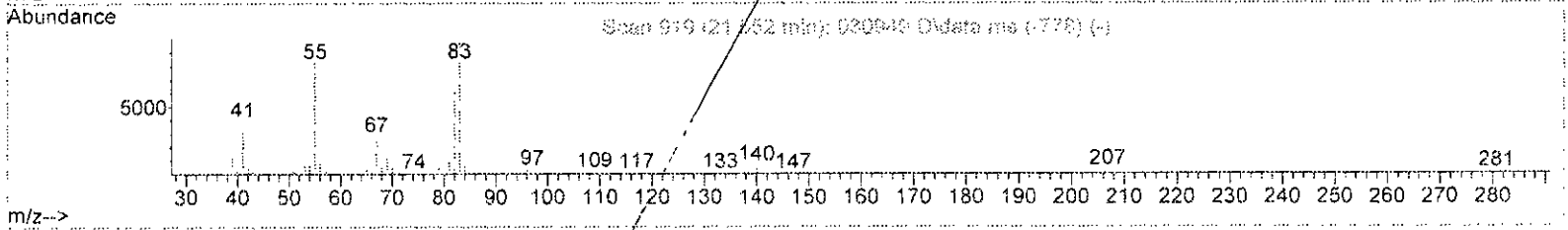
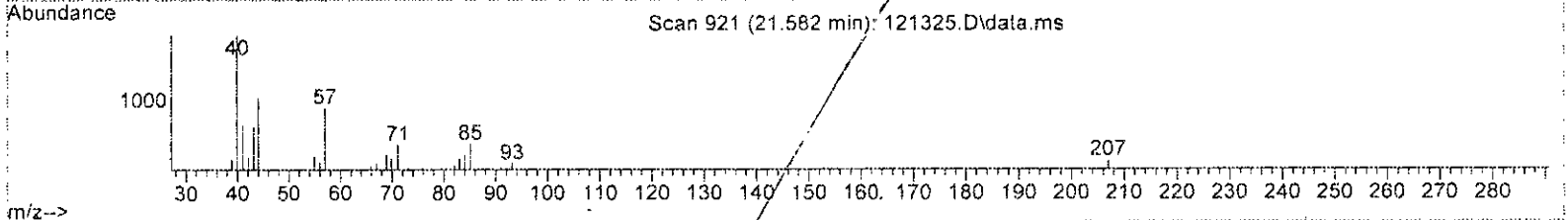
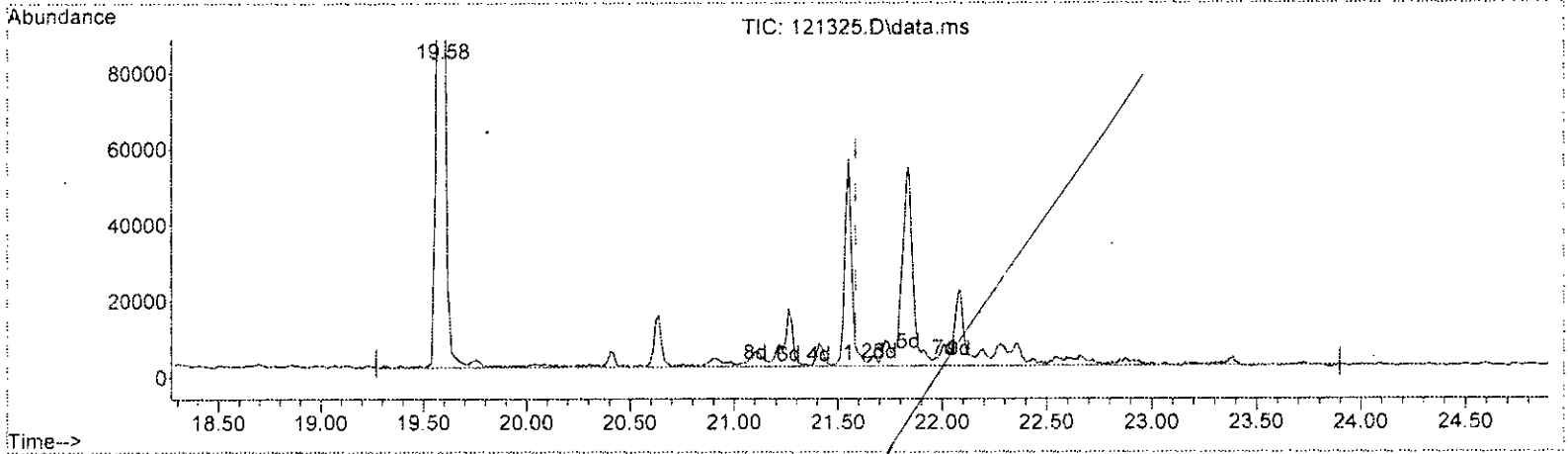
response	2419729		
Signal	Exp%	Act%	
TIC	100.00	100.00	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121325.D\data.ms

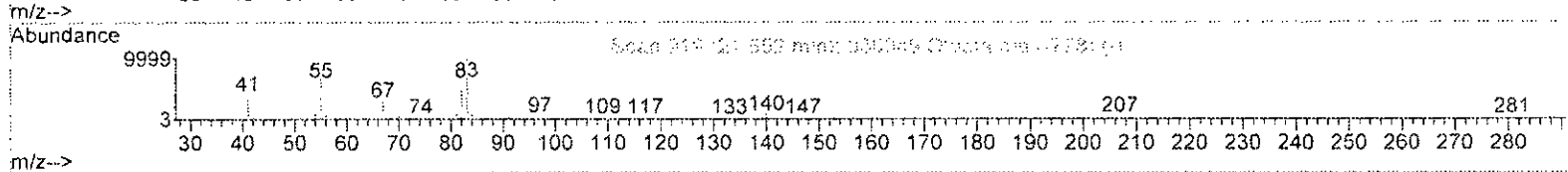
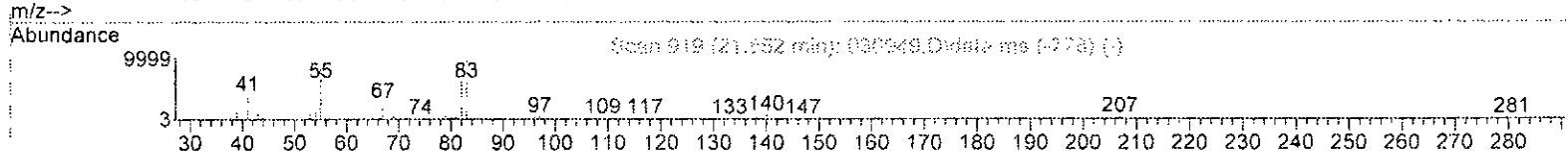
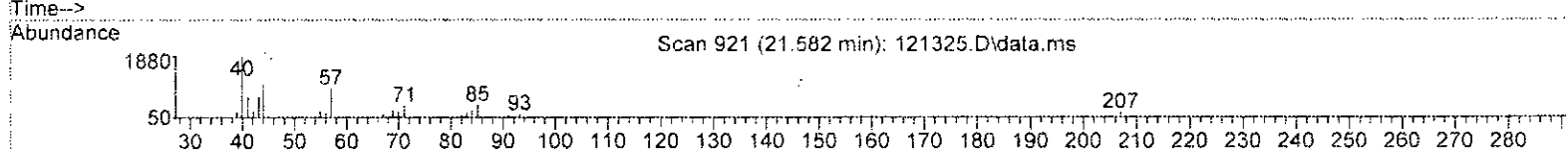
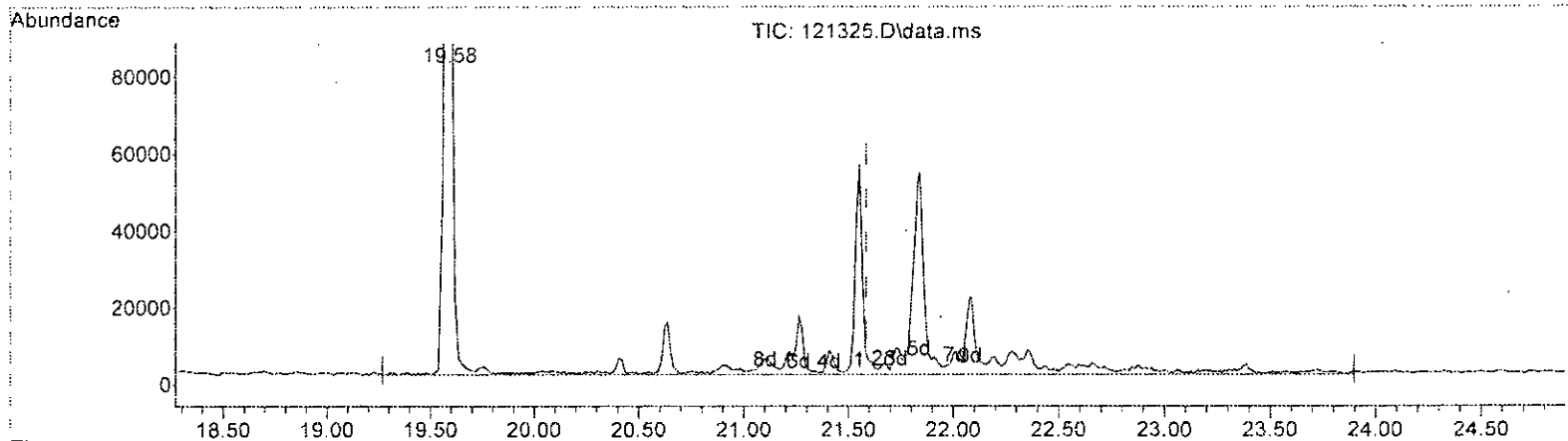
(36) APH EC9-12 aliphatics (H)		
21.585min ( 0.000) 35.095 ug/m3 m		
response	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121325.D\data.ms

(36) APH EC9-12 aliphatics (H)  
 21.585min ( 0.000) 75.339 ug/m3 m  
 response 1213836

Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

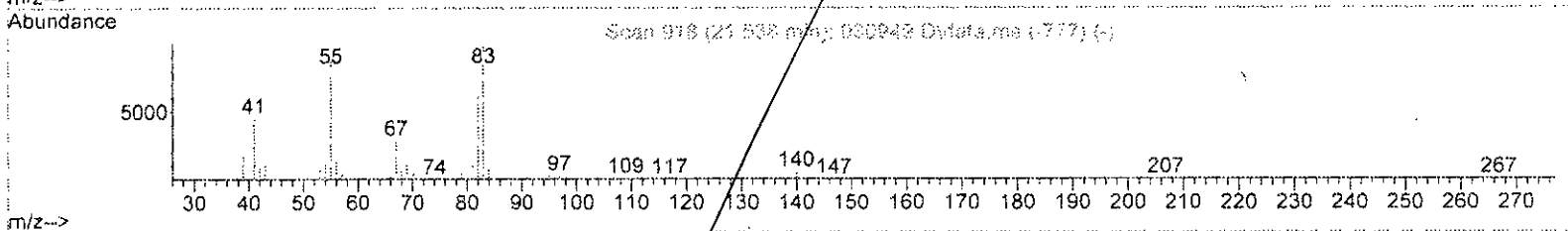
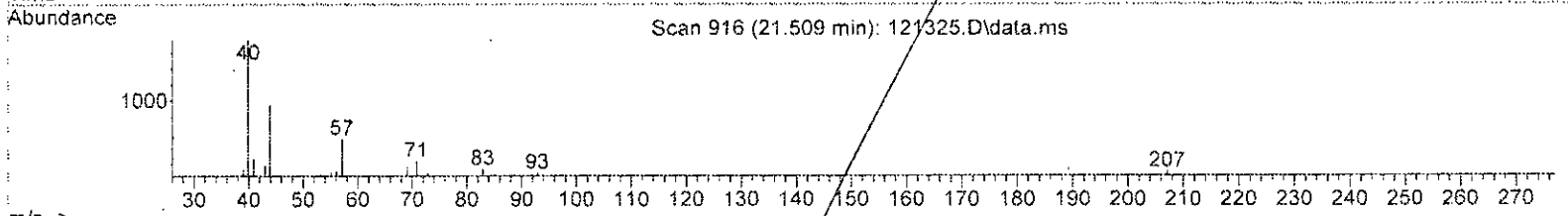
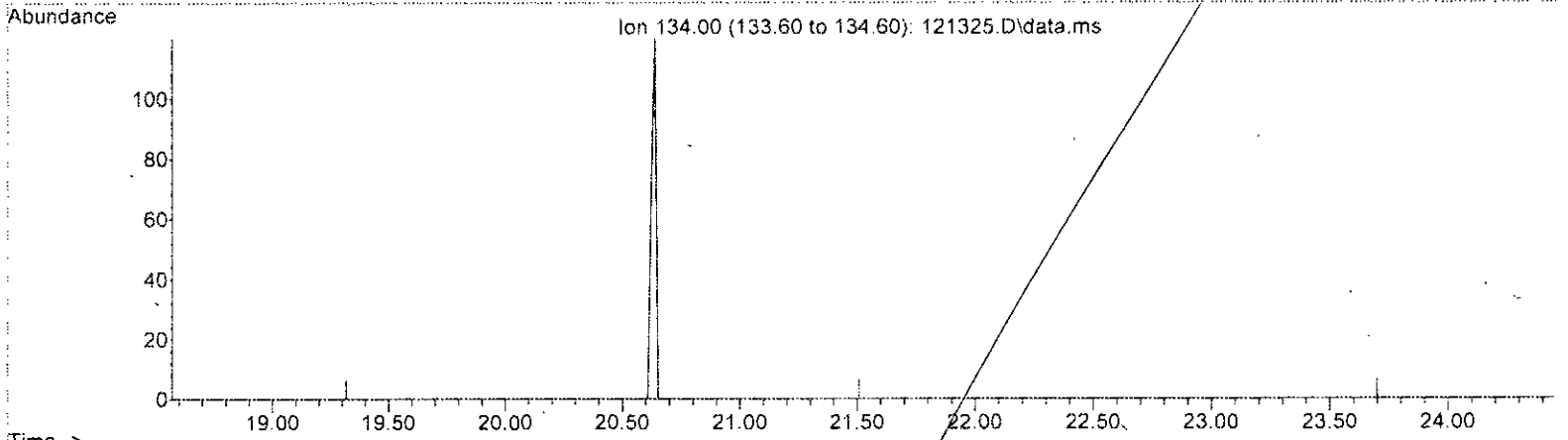
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121325.D\data.ms

(45) APH EC9-10 aromatics (2) (H)  
 21.509min ( 0.000) -423.952 ug/m3/m

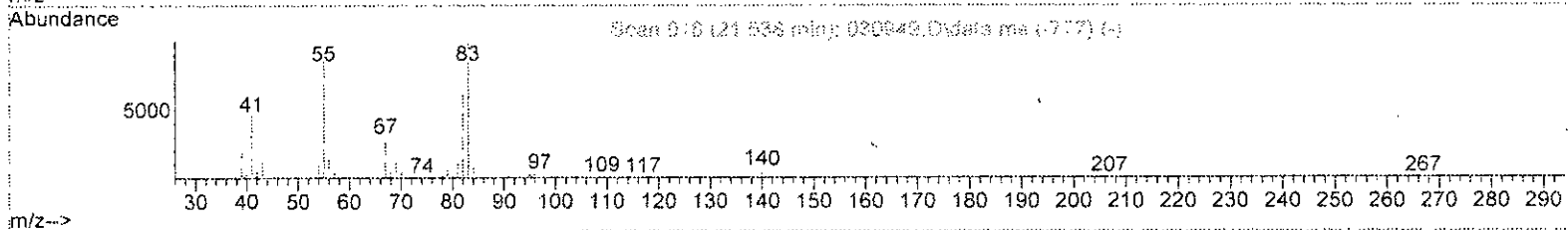
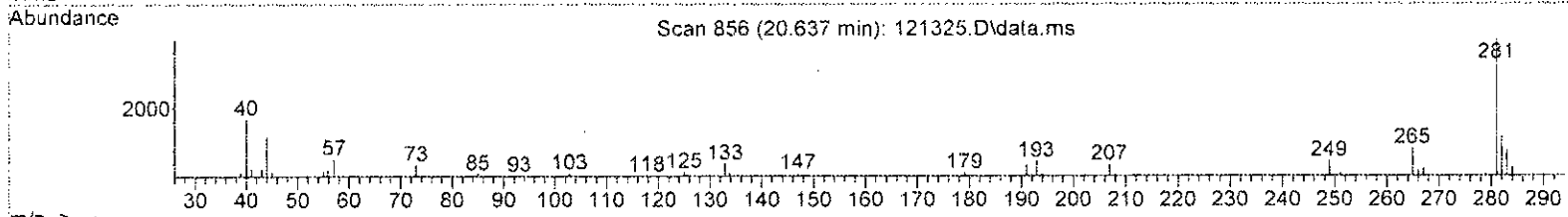
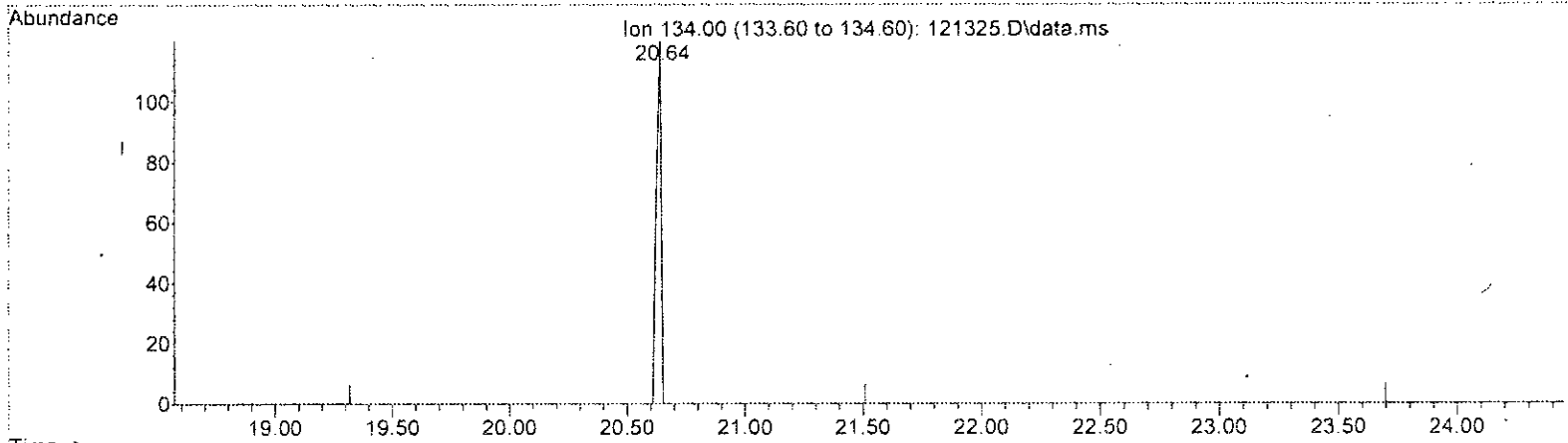
response	Ion	Exp%	Act%
-552202	134.00	100.00	100.00
	0.00	0.00	-0.00
	0.00	0.00	-0.00
	0.00	0.00	-0.00

*h*  
*ref*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO1SDC.M



TIC: 121325.D\data.ms

(45) APH EC9-10 aromatics (2) (H)  
 21.509min ( 0.000) 0.102 ug/m3 m

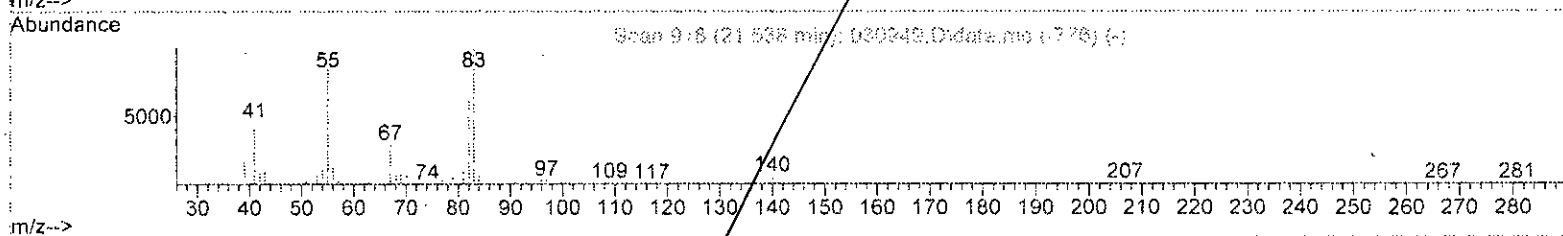
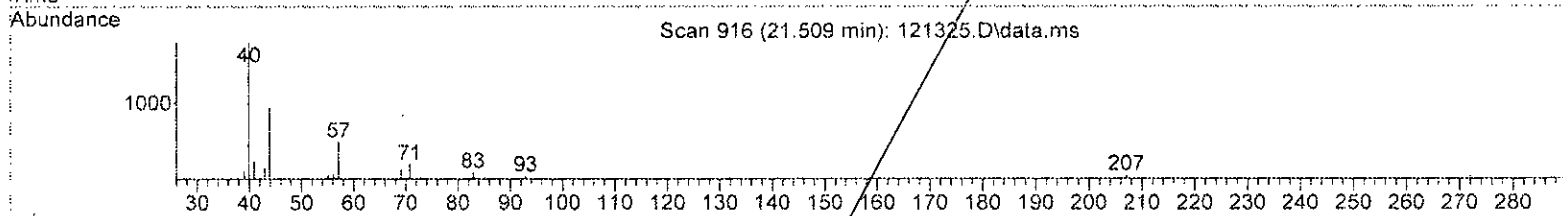
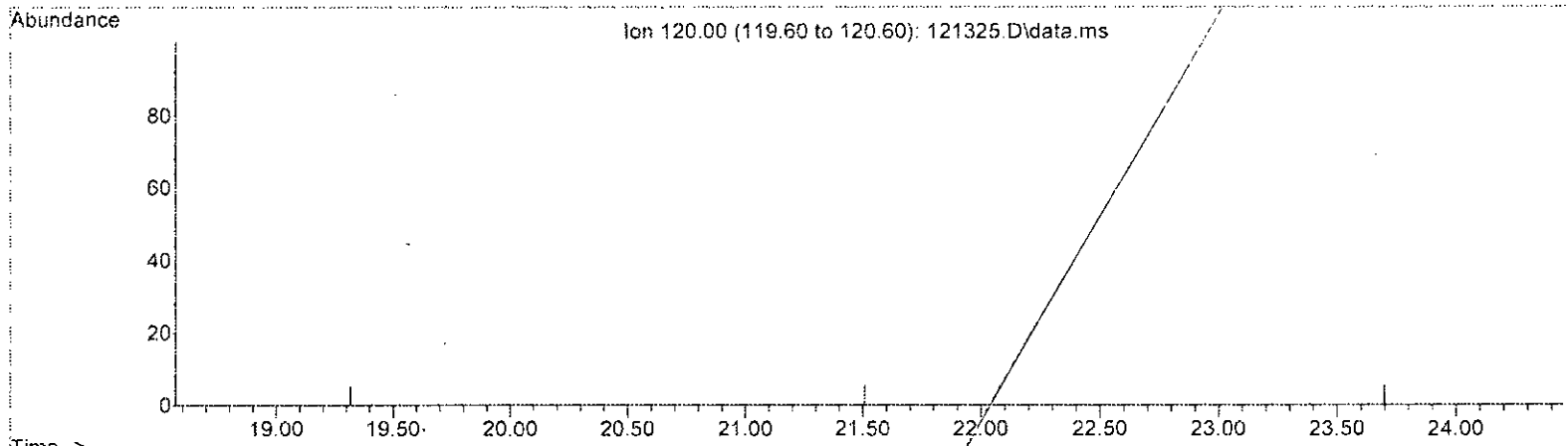
response	133	
Ion	Exp%	Act%
134.00	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121325.D\data.ms

(44) APH EC9-10 aromatics (1) (H)  
 21.509min ( 0.000) -246.300 ug/m3 m  
 response -552335

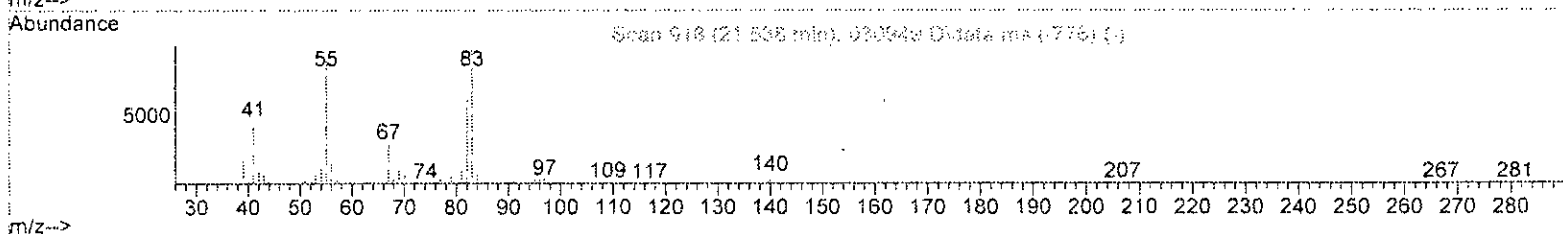
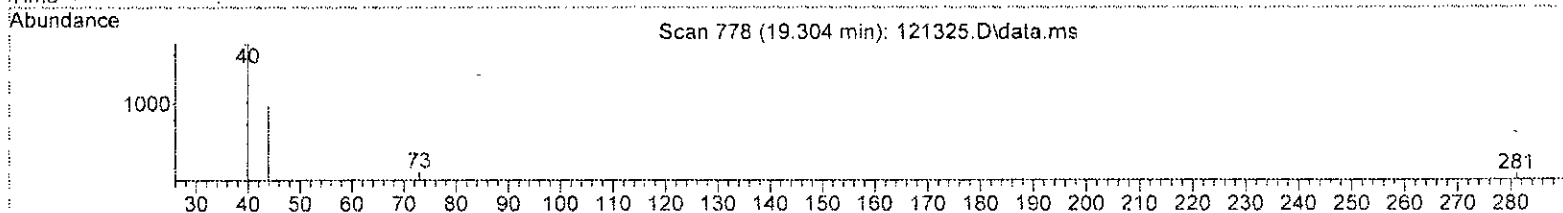
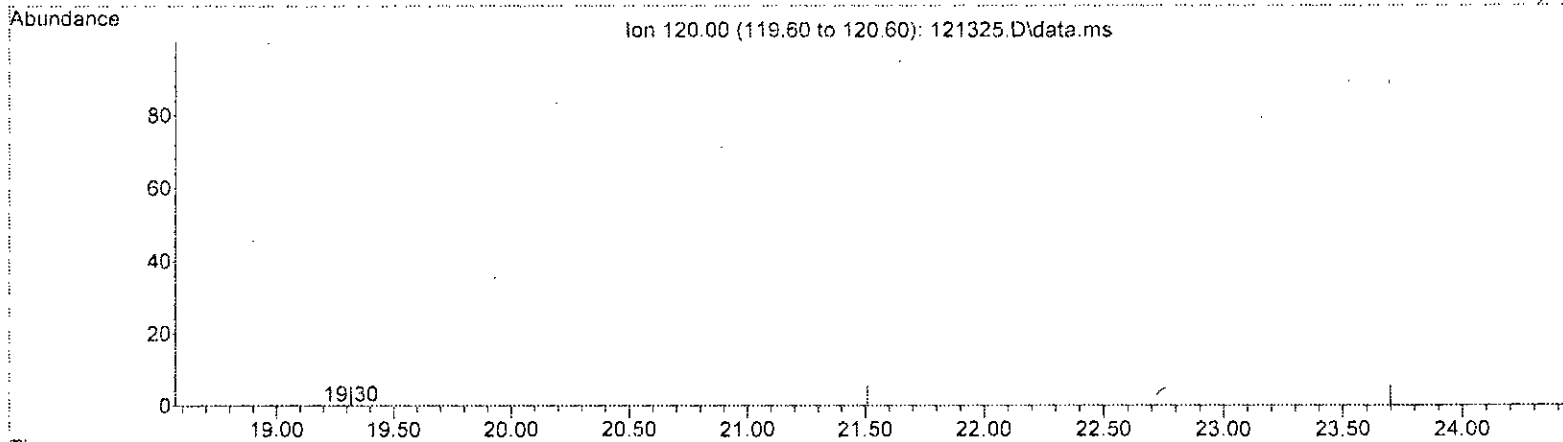
Ion	Exp%	Act%
120.00	100.00	100.00
0.00	0.00	-0.00
0.00	0.00	-0.00
0.00	0.00	-0.00

*h  
12/15/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH T0-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121325.D\data.ms

(44) APH EC9-10 aromatics (1) (H)

21.509min ( 0.000) 0.000 ug/m3 m

response	0	
Ion	Exp%	Act%
120.00	100.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*h*  
*bat*

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.88	128	51119	50.000	ug/m3	# 0.00
10) 1,4-Difluorobenzene	13.14	114	205145	50.000	ug/m3	0.00
20) Chlorobenzene-d5	18.13	117	187844	50.000	ug/m3	0.00

System Monitoring Compounds						
37) 4-Bromofluorobenzene	19.58	95	109328	60.201	ug/m3	0.00
Spiked Amount	71.000	Range	70 - 130	Recovery	=	84.79%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) IS-1 Bromochloromethane	9.88	TIC	411460m	50.722	ug/m3	
3) IS-2 1,4-Difluorobenzene	13.14	TIC	538389	49.907	ug/m3	94
4) IS-3 Chlorobenzene-d5	18.13	TIC	625034	46.512	ug/m3	95
5) Methylene chloride	6.78	TIC	46338	254.557	ug/m3	93
6) Acetone	5.53	TIC	19851	12.933	ppbv	100
7) 2-Propanol	5.80	TIC	4348	0.607	ppbv	100
8) 1,3-Butadiene	0.00		0	N.D.		
9) Methyl t-butyl ether	0.00		0	N.D.		
11) Benzene	12.62	78	305	0.039	ug/m3	61
12) Isopentane	5.53	TIC	19851	1.454	ug/m3#	52
13) Hexane	9.88	TIC	423603	30.022	ug/m3	61
14) Cyclohexane	13.14	TIC	539428	35.337	ug/m3	94
15) 2,3-Dimethylpentane	13.54	TIC	2139	0.110	ug/m3#	65
16) Heptane	14.48	TIC	1681	0.112	ug/m3	61
17) Octane	17.36	TIC	1814	0.186	ug/m3#	67
18) APH EC5-8 aliphatics T...	12.41	TIC	988516m	67.619	ug/m3	
19) APH EC5-8 aliphatics	12.35	TIC	2419729m	165.521	ug/m3	
21) S 4-Bromofluorobenzene	19.58	TIC	554234	44.293	ug/m3	96
22) Hexamethylcyclotrisilo...	17.72	TIC	134959	38.107	ppbv	100
23) Octamethylcyclotetrasil...	20.64	TIC	32951	41.408	ppbv	100
24) Toluene	16.34	92	151	0.033	ug/m3#	1
25) Ethylbenzene	18.54	91	68	N.D.		
26) m,p-Xylene	0.00		0	N.D.		
27) o-Xylene	0.00		0	N.D.		
28) Naphthalene	0.00		0	N.D.		
29) 2,3-Dimethylheptane	18.70	TIC	3523	0.194	ug/m3#	60
30) Nonane	19.30	TIC	1284	0.074	ug/m3#	60
31) Decane	20.90	TIC	12320	1.672	ug/m3	79
32) Butylcyclohexane	21.55	TIC	124499	5.574	ug/m3	64
33) Undecane	22.20	TIC	5626	1.636	ug/m3	88
34) Dodecane	23.39	TIC	9039	5.734	ug/m3	88
35) APH EC9-12 aliphatics ...	21.55	TIC	156291m	9.700	ug/m3	
36) APH EC9-12 aliphatics	21.59	TIC	1213836m	75.339	ug/m3	
38) Isopropylbenzene	0.00		0	N.D.		
39) 1-Methyl-3-ethylbenzene	0.00		0	N.D.		
40) 1,3,5-Trimethylbenzene	0.00		0	N.D.		
41) p-Isopropyltoluene	0.00		0	N.D.		
42) 1,2,3-Trimethylbenzene	0.00		0	N.D.		

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

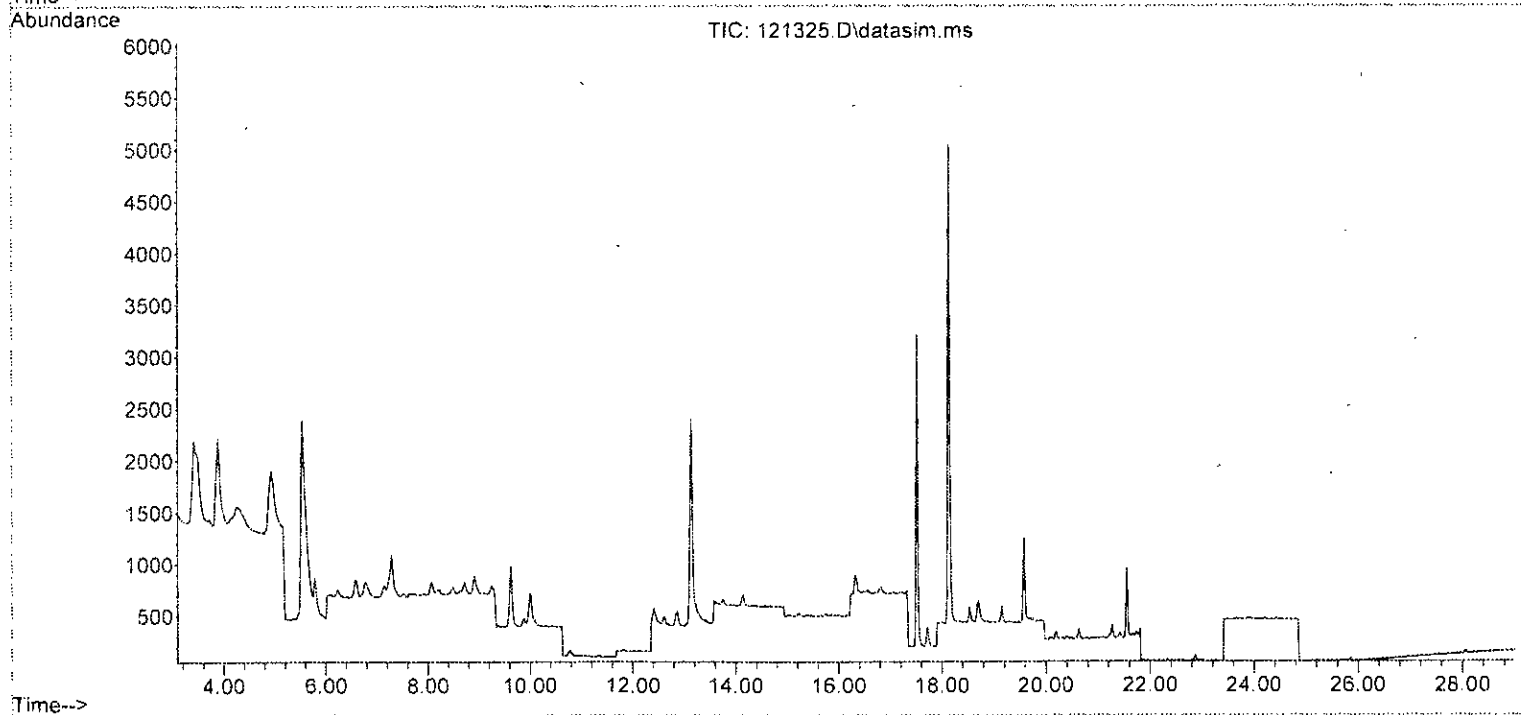
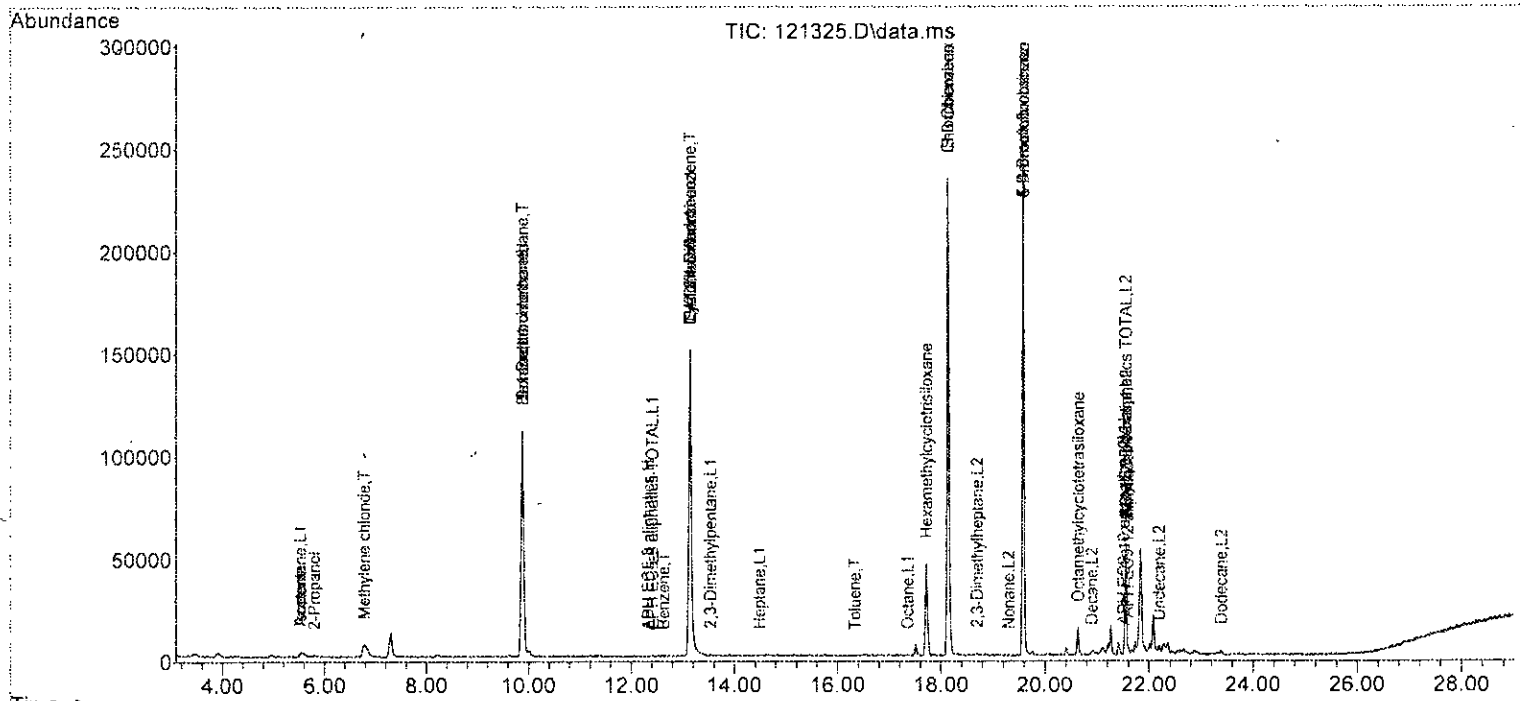
Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 Qlast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) APH EC9-10 aromatics T...	21.55		0		N.D.	
44) APH EC9-10 aromatics (1)	21.51		0		N.D.	
45) APH EC9-10 aromatics (2)	21.51	134	133m	0.102	ug/m3	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:50:50 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:48:55 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

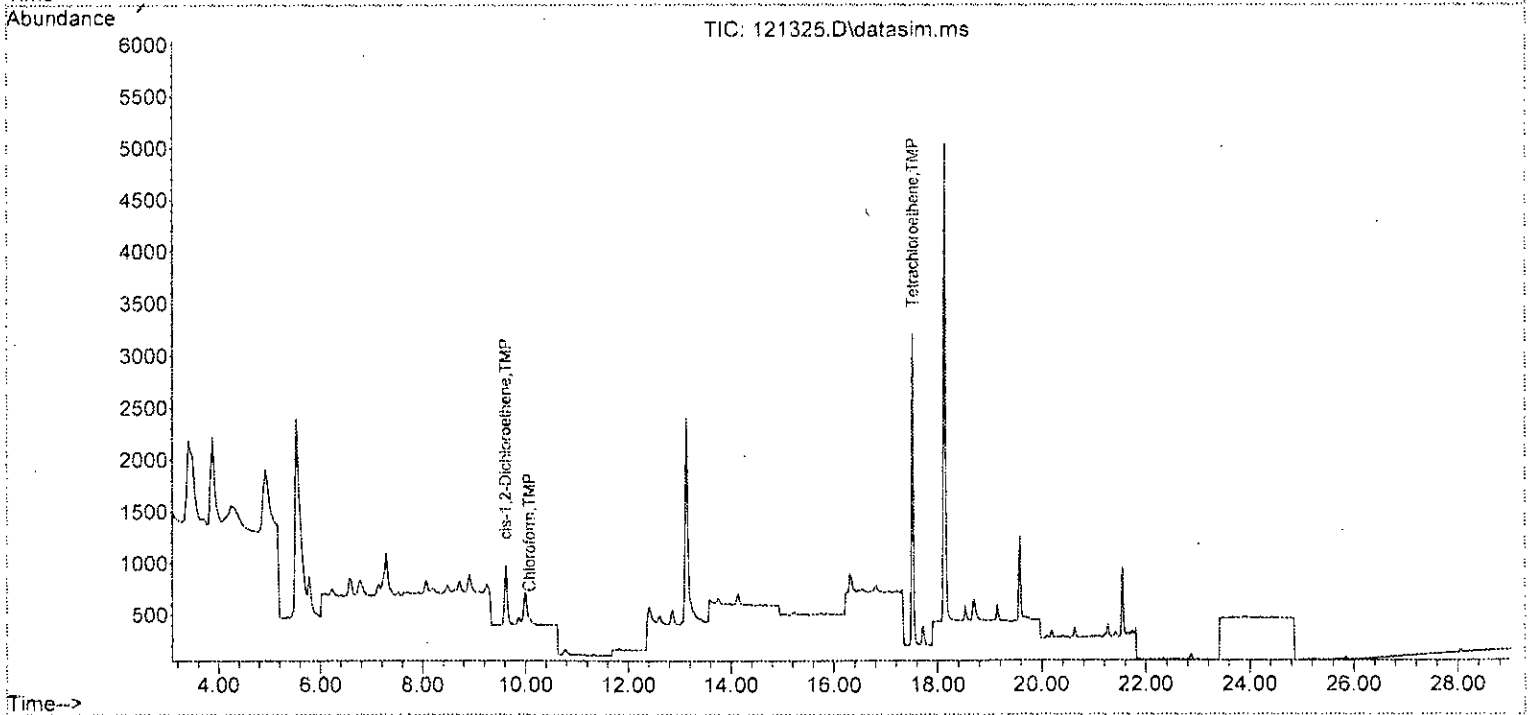
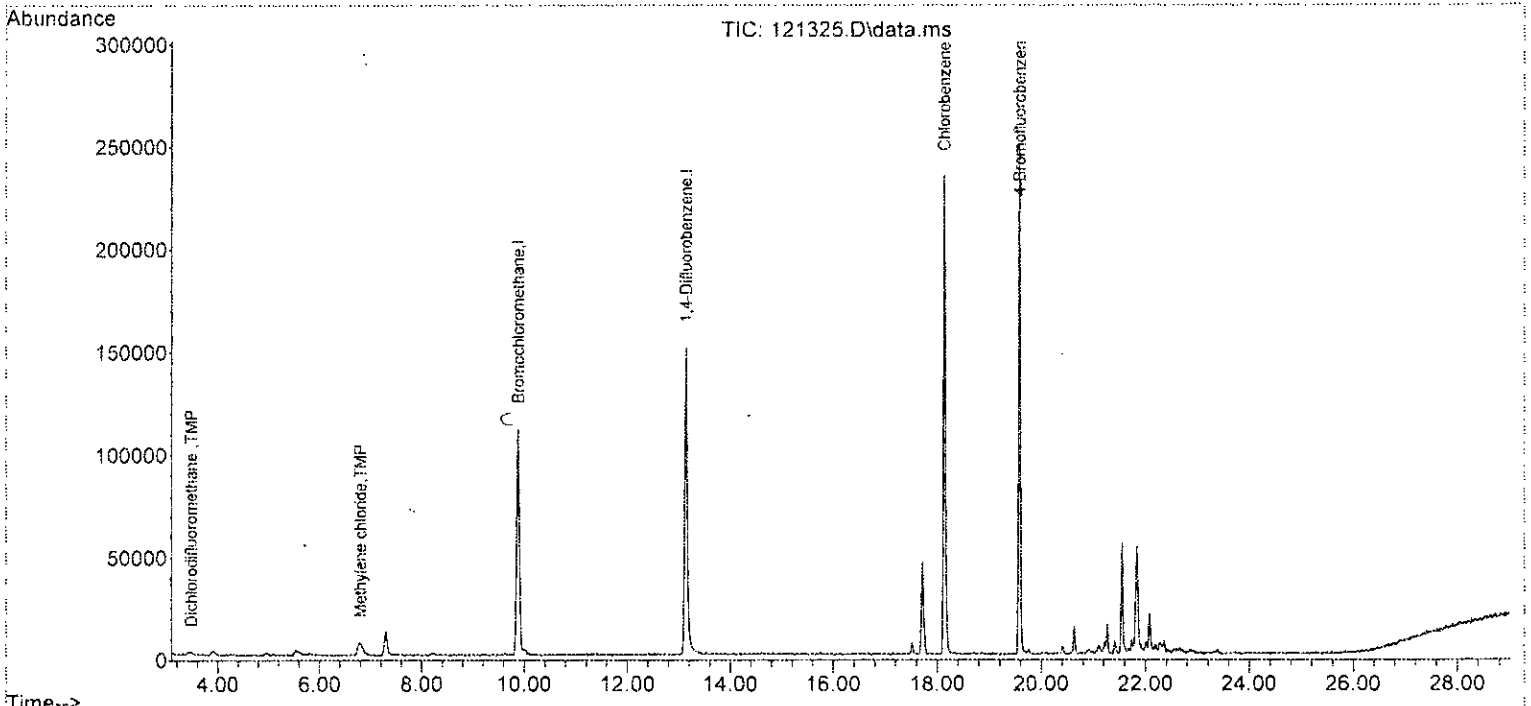
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.88	128	51119	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	205145	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	187844	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	109328	8.398	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	84.00%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	3.49	85	2058	0.098	ppbv	95
20) Methylene chloride	6.80	84	8541	1.130	ppbv	95
28] cis-1,2-Dichloroethene	9.62	96	710	0.082	ppbv	86
30] Chloroform	10.08	83	110	0.001	ppbv	96
37] Benzene	12.61	78	494	Below Cal		90
53] Tetrachloroethene	17.52	164	1529	0.152	ppbv	91
77] Naphthalene	23.46	128	262	Below Cal	#	1
-----						

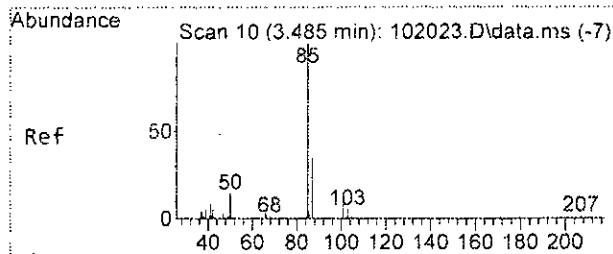
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\Proc\_GCMS7\12-13-22\  
Data File : 121325.D  
Acq On : 14 Dec 2022 6:07 am  
Operator : bat  
Sample : 212012-01 1/5.0  
Misc : T10  
ALS Vial : 25 Sample Multiplier: 1  
InstName : GCMS7

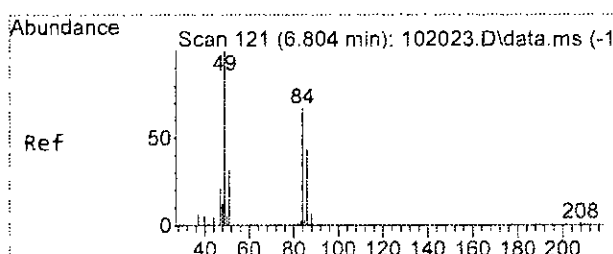
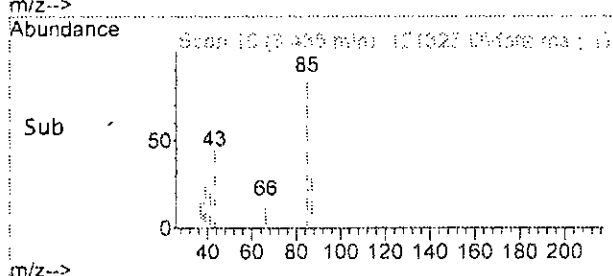
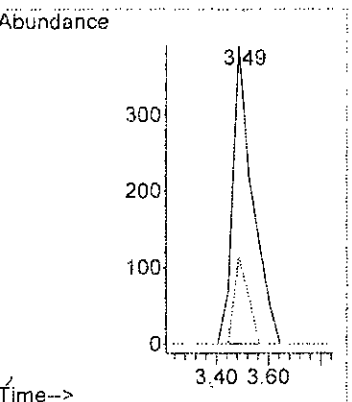
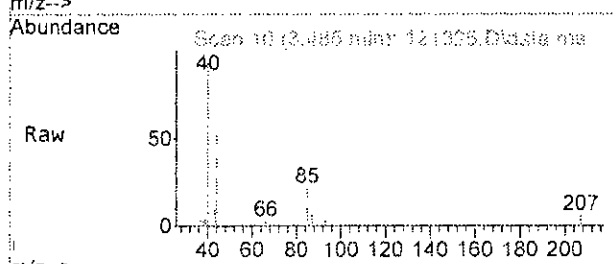
Quant Time: Dec 15 14:48:55 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : TO-15 SS method  
Qlast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth: T015DC.M





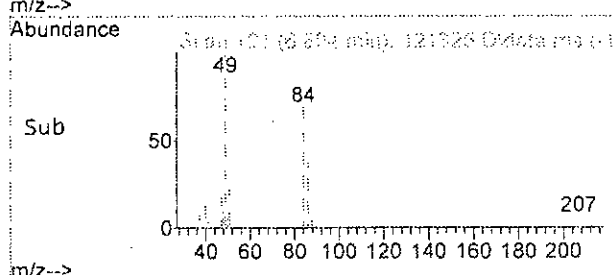
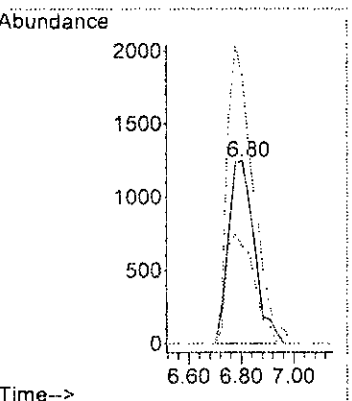
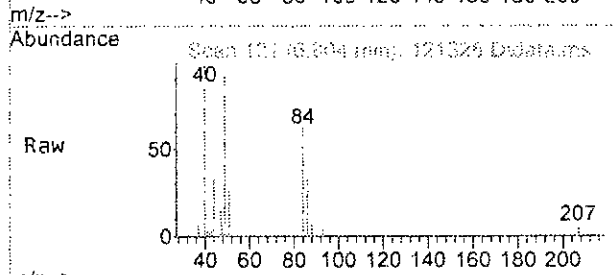
#3  
 Dichlorodifluoromethane  
 Concen: 0.098 ppbv  
 RT: 3.49 min Scan# 10  
 Delta R.T. 0.000 min  
 Lab File: 121325.D  
 Acq: 14 Dec 2022 6:07 am

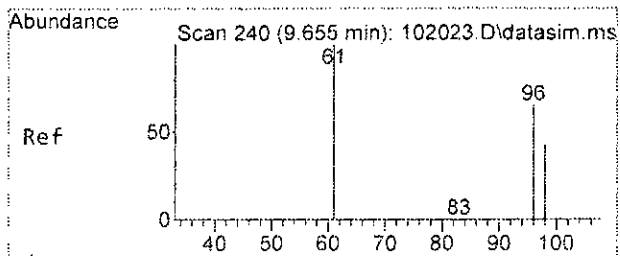
Tgt Ion: 85 Resp: 2058  
 Ion Ratio Lower Upper  
 85 100  
 87 29.2 2.2 62.2



#20  
 Methylene chloride  
 Concen: 1.130 ppbv  
 RT: 6.80 min Scan# 121  
 Delta R.T. 0.000 min  
 Lab File: 121325.D  
 Acq: 14 Dec 2022 6:07 am

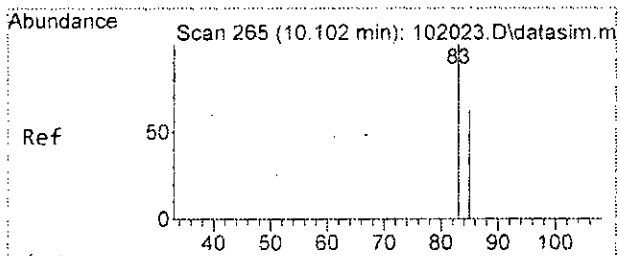
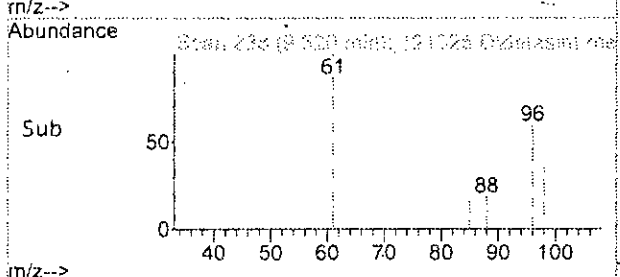
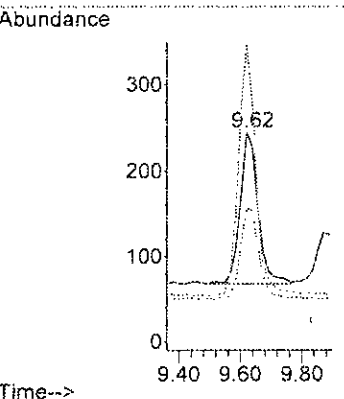
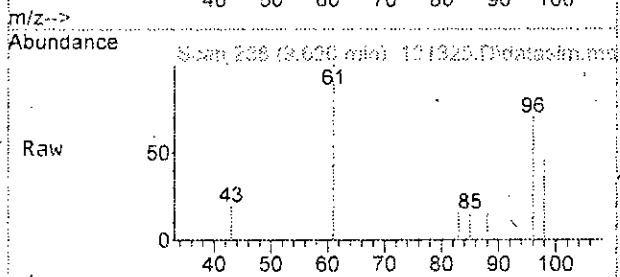
Tgt Ion: 84 Resp: 8541  
 Ion Ratio Lower Upper  
 84 100  
 86 53.3 33.9 93.9  
 49 145.6 116.6 176.6





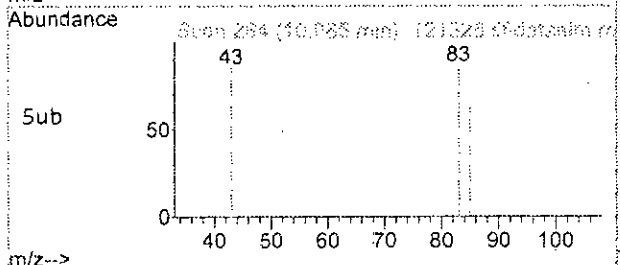
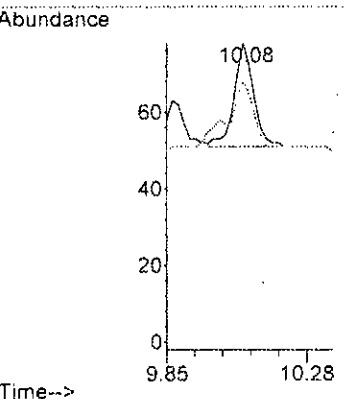
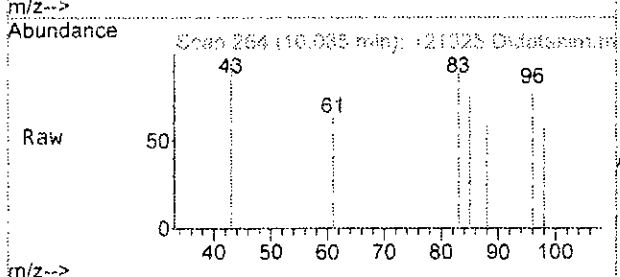
#28  
 cis-1,2-Dichloroethene  
 Concen: 0.082 ppbv  
 RT: 9.62 min Scan# 238  
 Delta R.T. -0.018 min  
 Lab File: 121325.D  
 Acq: 14 Dec 2022 6:07 am

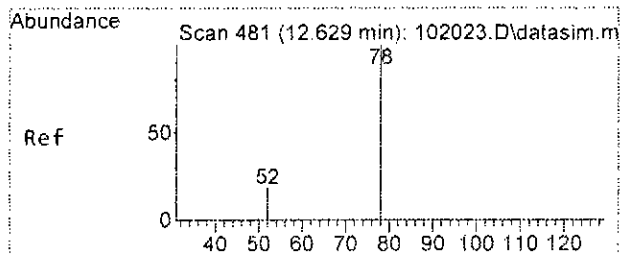
Tgt Ion	Resp	Lower	Upper
96	100		
61	166.7	116.0	176.0
98	59.3	35.2	95.2



#30  
 Chloroform  
 Concen: 0.001 ppbv  
 RT: 10.08 min Scan# 264  
 Delta R.T. -0.017 min  
 Lab File: 121325.D  
 Acq: 14 Dec 2022 6:07 am

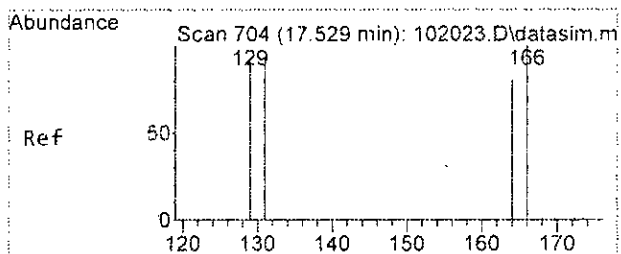
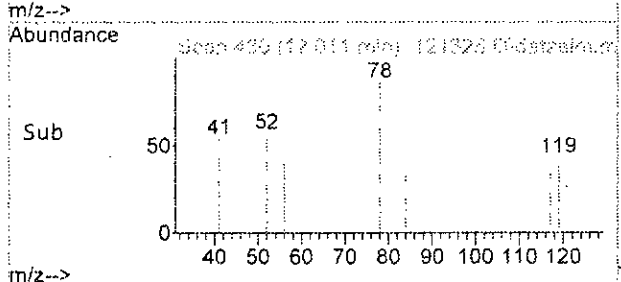
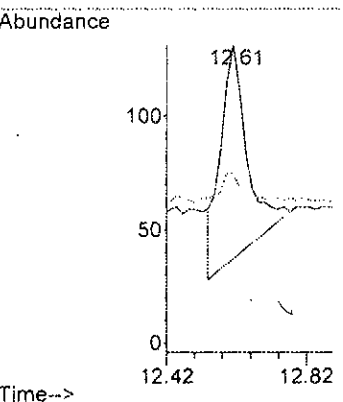
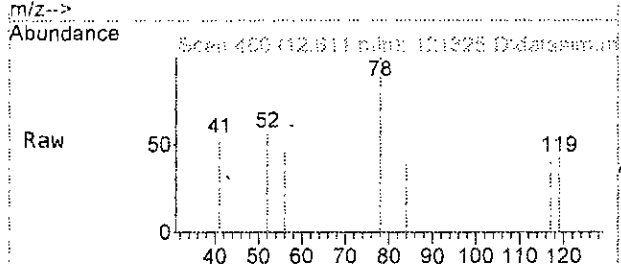
Tgt Ion	Resp	Lower	Upper
83	100		
85	63.0	36.3	96.3





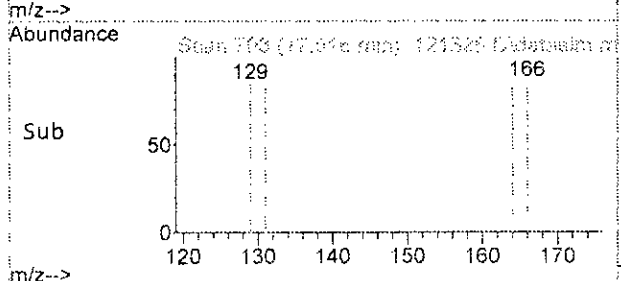
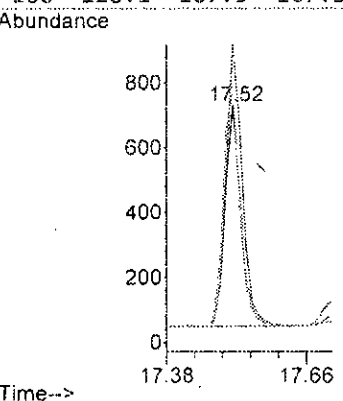
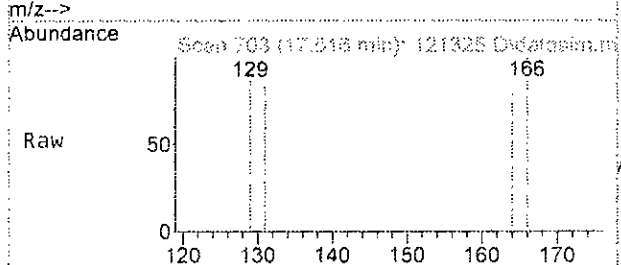
#37  
Benzene  
Concen: Below Cal  
RT: 12.61 min Scan# 480  
Delta R.T. 0.000 min  
Lab File: 121325.D  
Acq: 14 Dec 2022 6:07 am

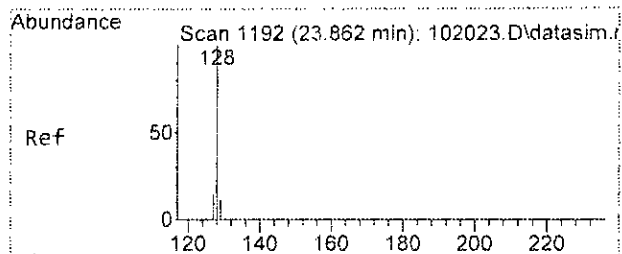
Tgt Ion	Resp	Lower	Upper
78	100		
52	15.1	0.0	49.7



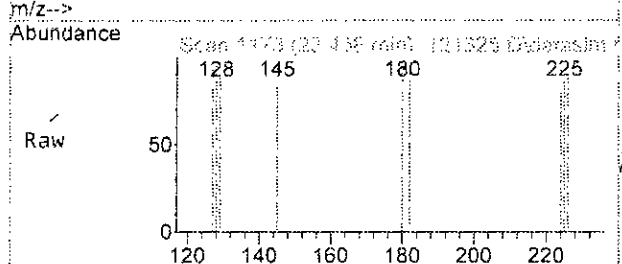
#53  
Tetrachloroethene  
Concen: 0.152 ppbv  
RT: 17.52 min Scan# 703  
Delta R.T. 0.000 min  
Lab File: 121325.D  
Acq: 14 Dec 2022 6:07 am

Tgt Ion	Resp	Lower	Upper
164	100		
129	108.1	63.2	123.2
131	106.2	70.7	130.7
166	128.1	107.5	167.5



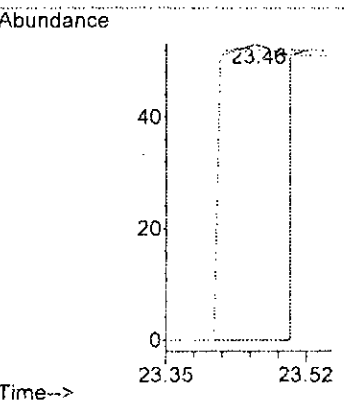
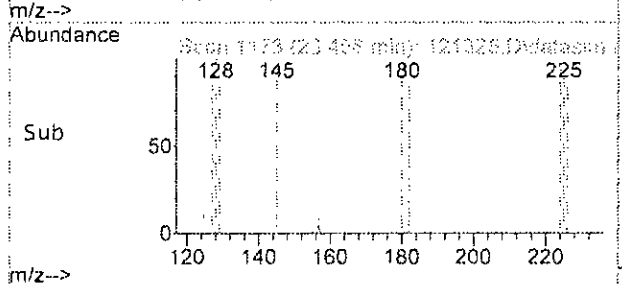


#77  
 Naphthalene  
 Concen: Below Cal  
 RT: 23.46 min Scan# 1173  
 Delta R.T. -0.383 min  
 Lab File: 121325.D  
 Acq: 14 Dec 2022 6:07 am



Tgt Ion:128 Resp: 262

Ion	Ratio	Lower	Upper
128	100		
129	98.1	0.0	41.0#
127	94.3	0.0	43.2#



Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 14:48:55 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.88	128	51119	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	205145	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	187844	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	109328	8.398	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	84.00%	
Target Compounds						
						Qvalue
2) Propene	3.45	41	868	N.D.		
3) Dichlorodifluoromethane	3.49	85	2058	0.098	ppbv	95
4) Chloromethane	3.73	50	238	N.D.		
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) 1,3-Butadiene	0.00		0	N.D.		
8) Butane	4.36	43	1106	N.D.		
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	4.96	45	3093	N.D.		
13) Acrolein	0.00		0	N.D.		
14) Pentane	0.00		0	N.D.		
15) Trichlorofluoromethane	5.80	101	813	N.D.		
16) Acetone	5.53	58	3231	N.D.		
17) 2-Propanol	5.80	45	1093	N.D.		
18) 1,1-Dichloroethene	0.00		0	N.D.		
19) trans-1,2-Dichloroethene	8.07	96	150	N.D.		
20) Methylene chloride	6.80	84	8541	1.130	ppbv	95
21) t-Butyl alcohol (TBA)	0.00		0	N.D.		
22) 3-Chloropropene	6.80	41	581	N.D.		
23) CFC-113	0.00		0	N.D.		
24) Carbon disulfide	7.23	76	1026	N.D.		
25) Methyl t-butyl ether (...)	0.00		0	N.D.		
26) Vinyl acetate	8.51	43	216	N.D.		
27) 1,1-Dichloroethane	0.00		0	N.D.		
28] cis-1,2-Dichloroethene	9.62	96	710	0.082	ppbv	86
29) Hexane	9.99	57	1728	N.D.		
30] Chloroform	10.08	83	110	0.001	ppbv	96
31) Ethyl acetate	10.03	43	1518	N.D.		
32) Tetrahydrofuran	0.00		0	N.D.		
33) 2-Butanone (MEK)	0.00		0	N.D.		
34) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d	
35) 1,1,1-Trichloroethane	11.73	97	203	N.D.		
36) Carbon tetrachloride	12.86	117	251	N.D.		
37] Benzene	12.61	78	494	Below Cal		90
38) Cyclohexane	13.14	84	1234	N.D.		
40) 1,2-Dichloropropane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121325.D  
 Acq On : 14 Dec 2022 6:07 am  
 Operator : bat  
 Sample : 212012-01 1/5.0  
 Misc : T10  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

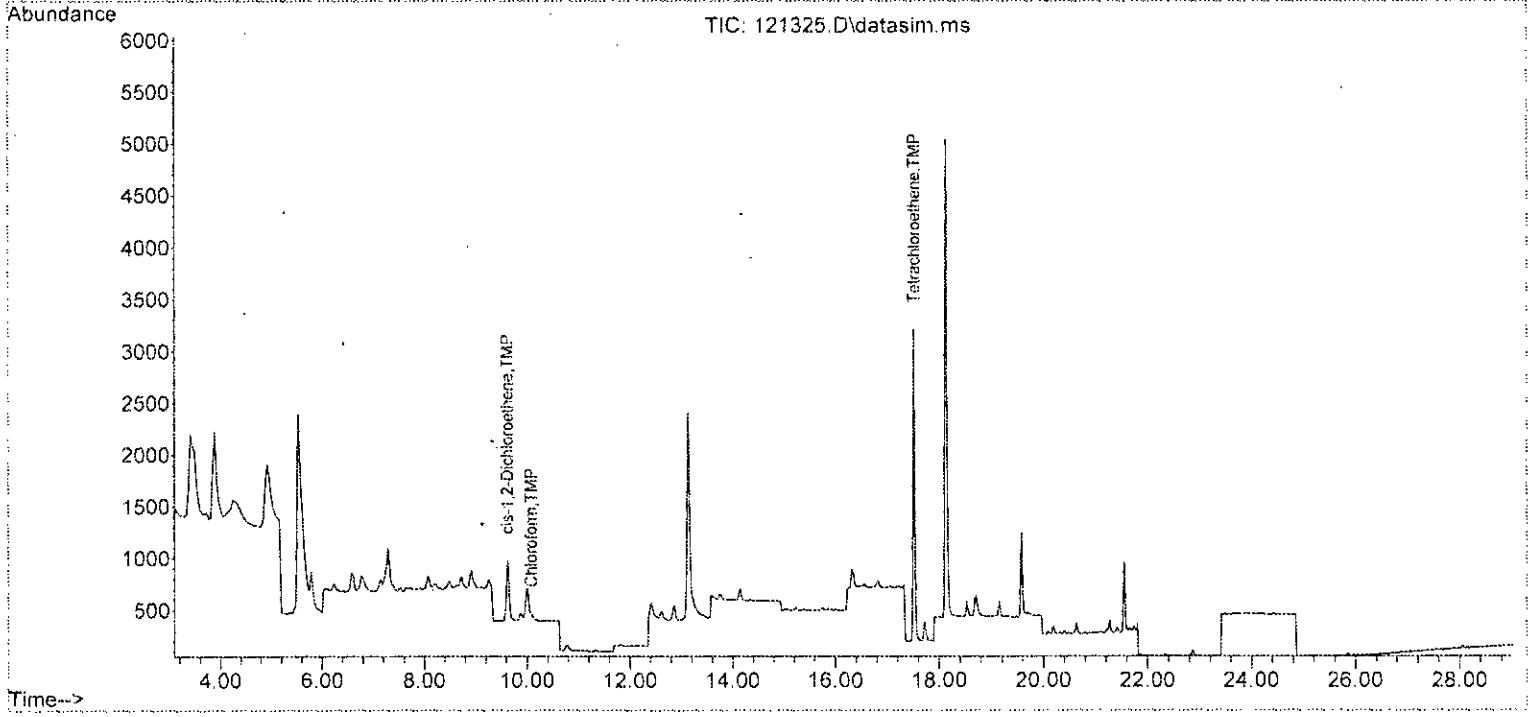
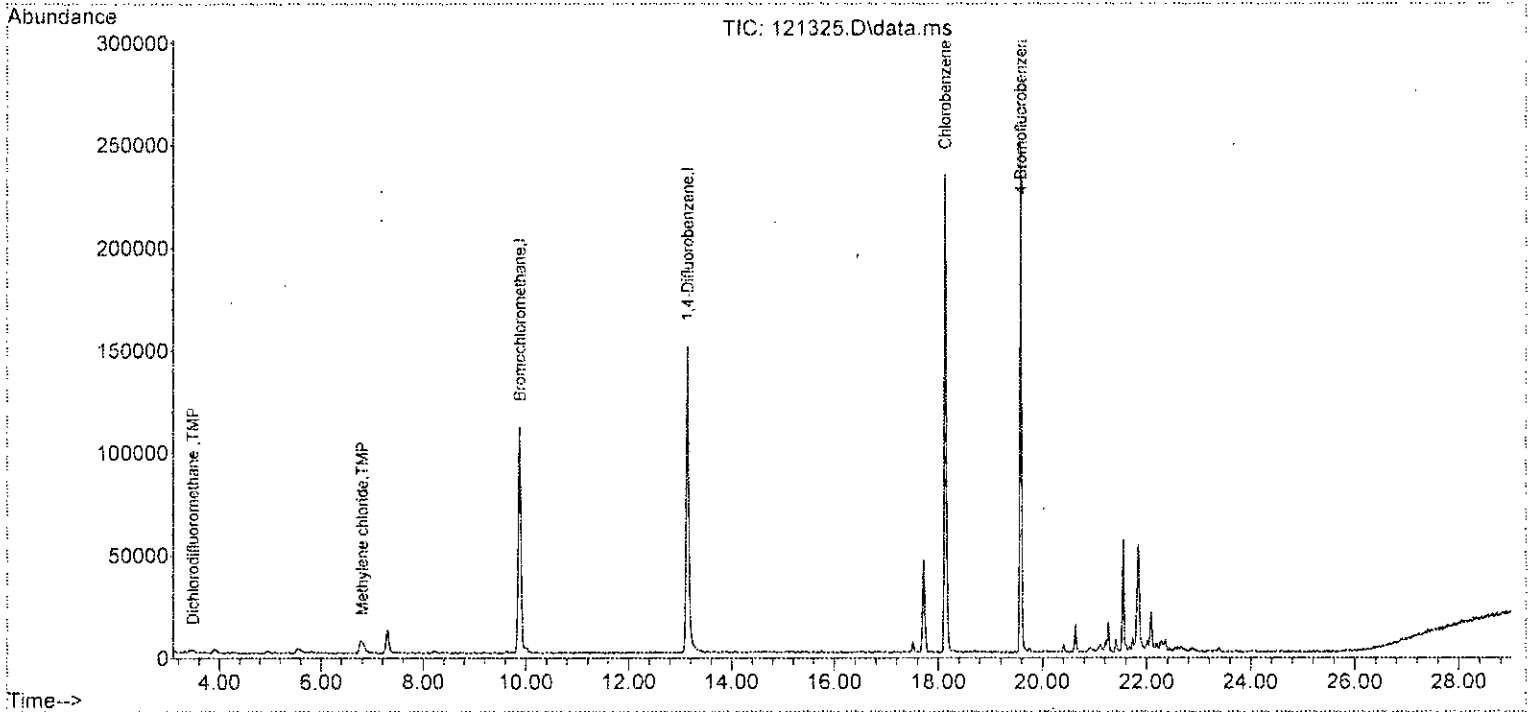
Quant Time: Dec 15 14:48:55 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D.	
43) Methyl methacrylate	0.00		0		N.D.	
44) Heptane	0.00		0		N.D.	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	14.14	95	117		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	16.31	92	1673		N.D.	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	0.00		0		N.D.	
53] Tetrachloroethene	17.52	164	1529	0.152	ppbv	91
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	18.53	91	266		N.D.	
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
60) Nonane	19.62	43	288		N.D.	
61) Isopropylbenzene	19.60	105	188		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D.	
64) 4-Ethyltoluene	20.30	105	254		N.D.	
65) m,p-Xylene	18.70	106	218		N.D.	
66) o-Xylene	18.70	106	153		N.D.	
67) Styrene	0.00		0		N.D.	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D.	d
71) 1,3,5-Trimethylbenzene	20.39	105	112		N.D.	
72) 1,2,4-Trimethylbenzene	20.61	105	100		N.D.	
73) 1,3-Dichlorobenzene	0.00		0		N.D.	
74) 1,4-Dichlorobenzene	0.00		0		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77] Naphthalene	23.46	128	262	Below Cal	#	1
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-13-22\  
Data File : 121325.D  
Acq On : 14 Dec 2022 6:07 am  
Operator : bat  
Sample : 212012-01 1/5.0  
Misc : T10  
ALS Vial : 25 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Dec 15 14:48:55 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : TO-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:TO15DC.M

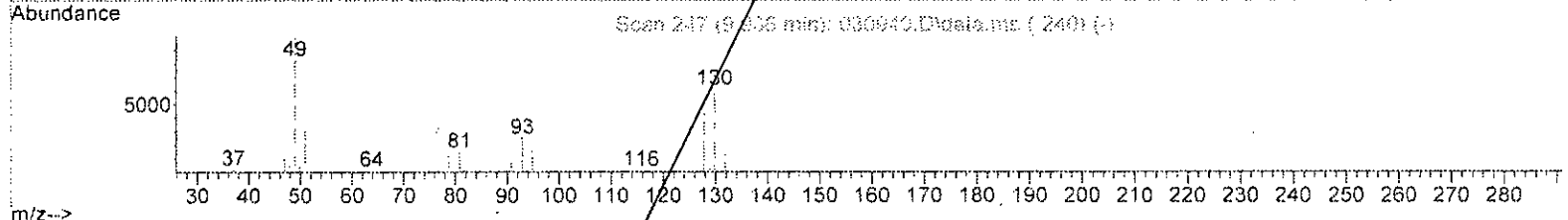
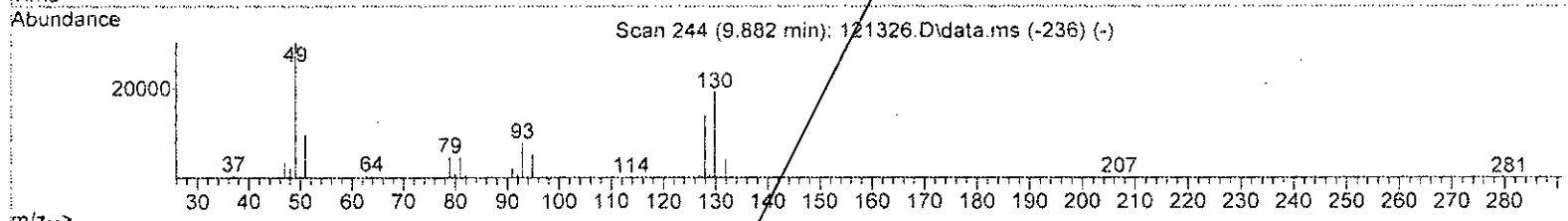
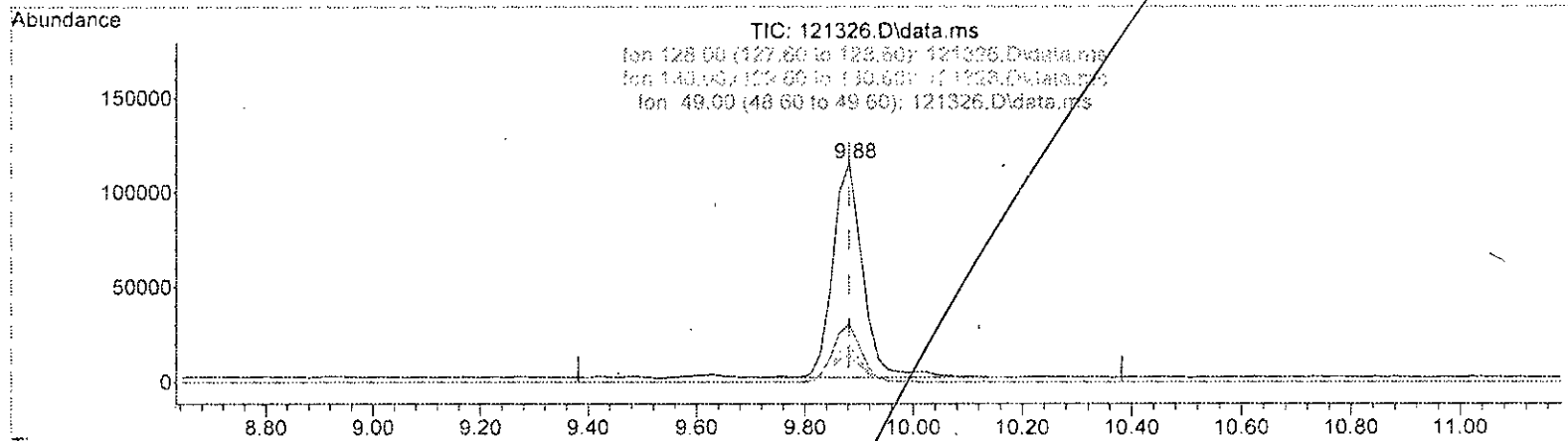




Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121326.D\data.ms

(2) IS-1 Bromochloromethane (7)

9.882min (+ 0.000) 52.357 ug/m3

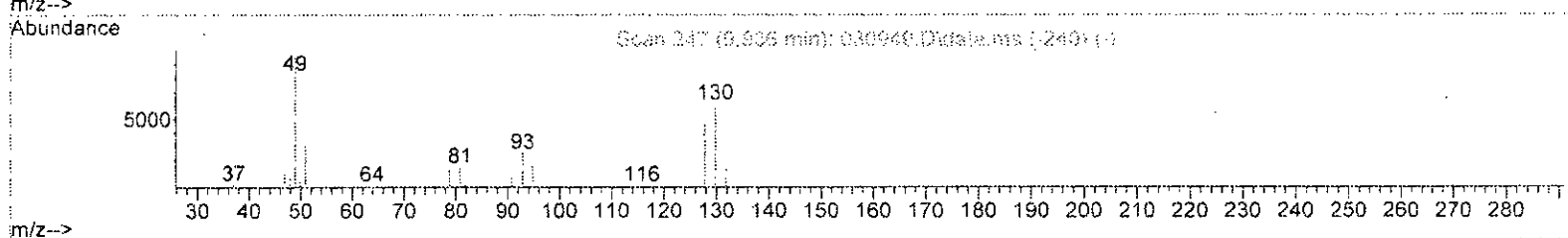
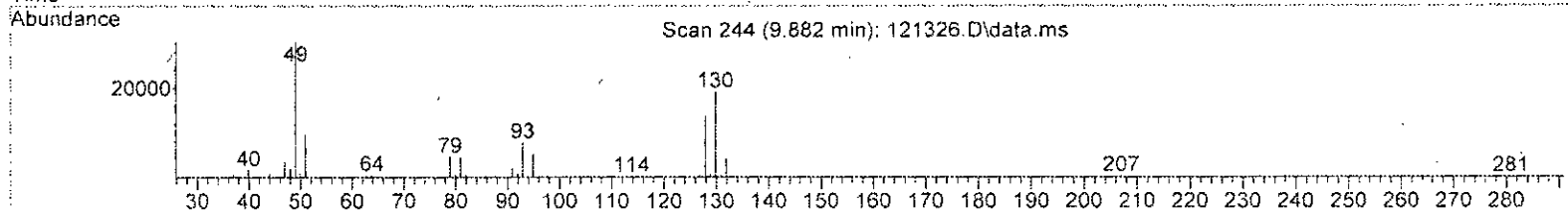
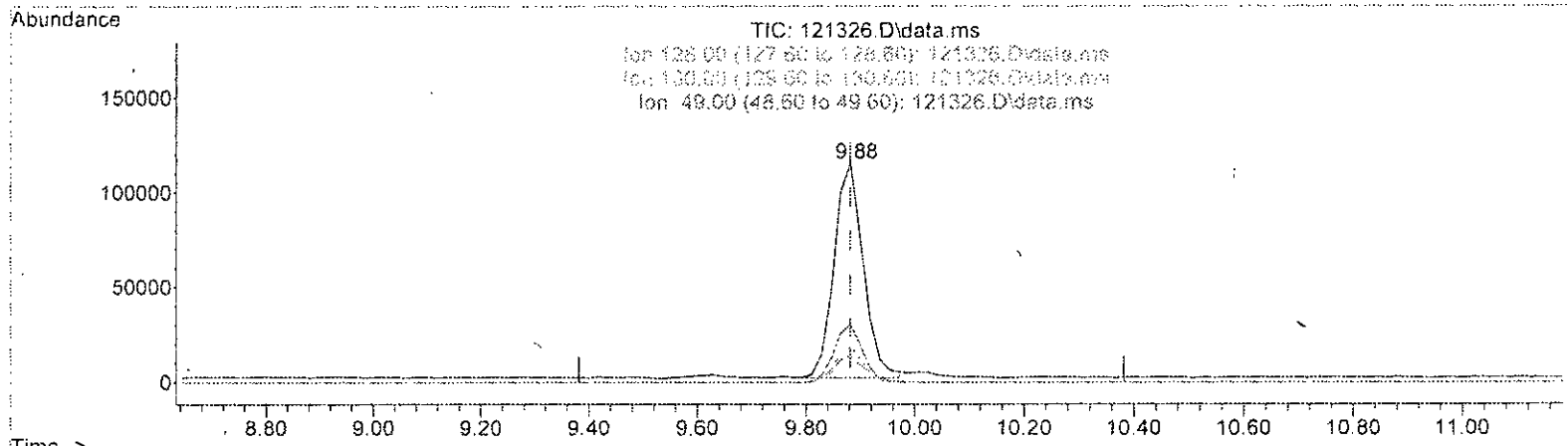
response	432584
Signal	Exp% Act%
TIC	100.00 100.00
128.00	14.80 12.34
130.00	19.20 16.84
49.00	20.60 26.82

*h*  
*ca/stu*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121326.D\data.ms

(2) IS-1 Bromochloromethane (T)

Retention Time (min)	Expected Concentration (ug/m3)	Actual Concentration (ug/m3)
9.882min (+ 0.000)	50.738	50.738
128.00	14.80	12.73
130.00	19.20	17.38
49.00	20.60	27.67

response 419207

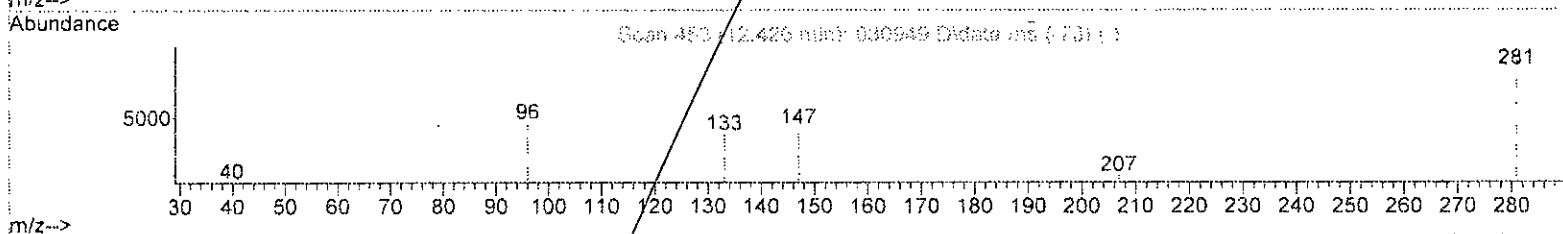
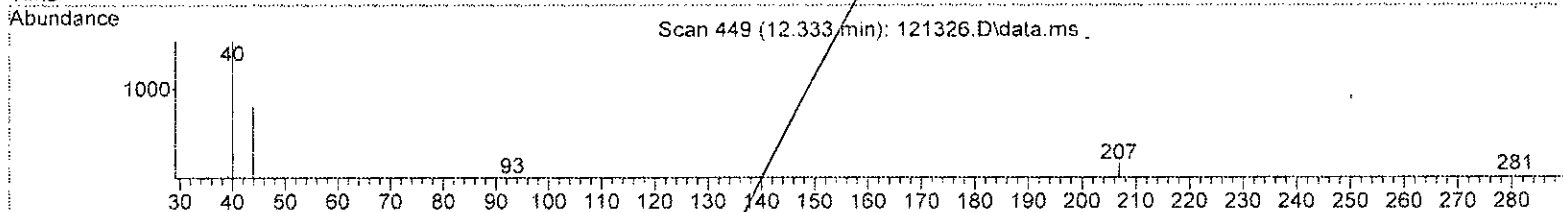
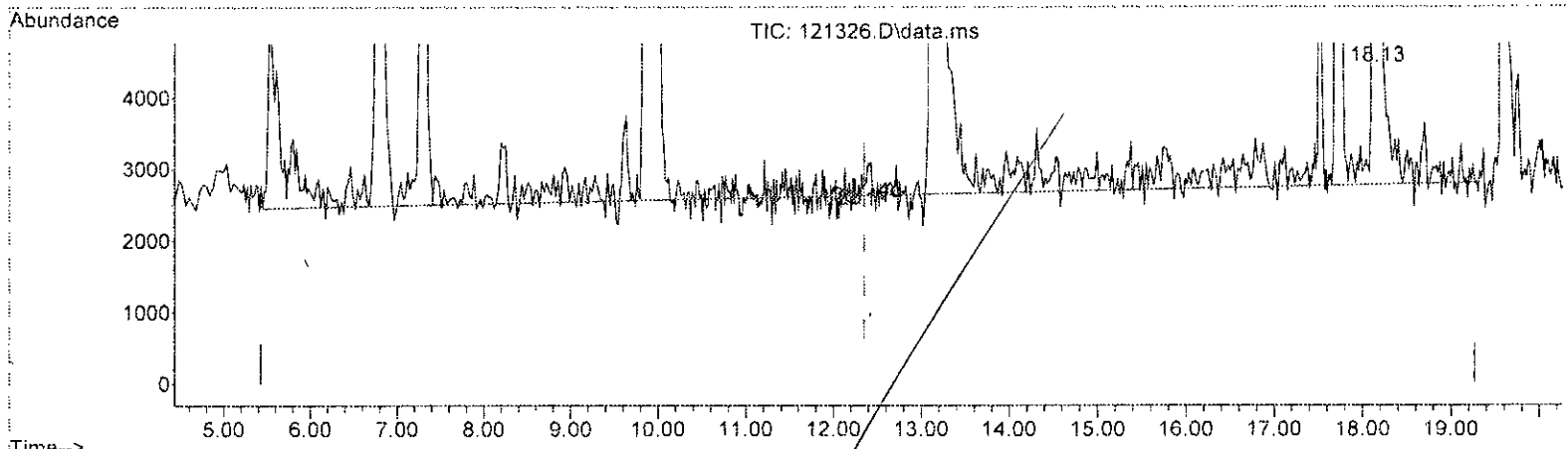
Signal	Exp%	Act%
TIC	100.00	100.00
128.00	14.80	12.73
130.00	19.20	17.38
49.00	20.60	27.67

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 Qlast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121326.D\data.ms

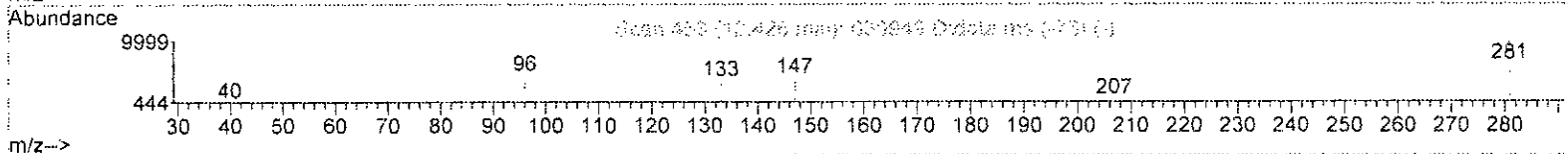
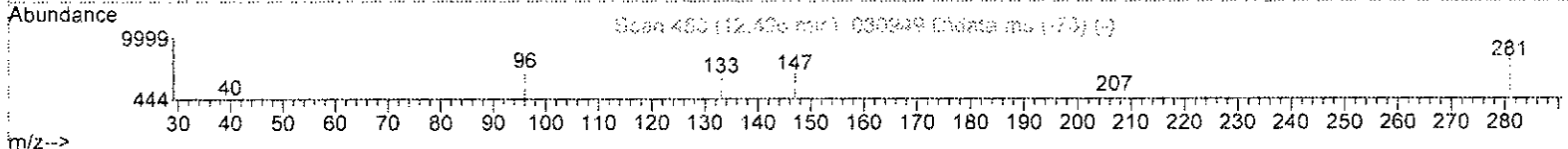
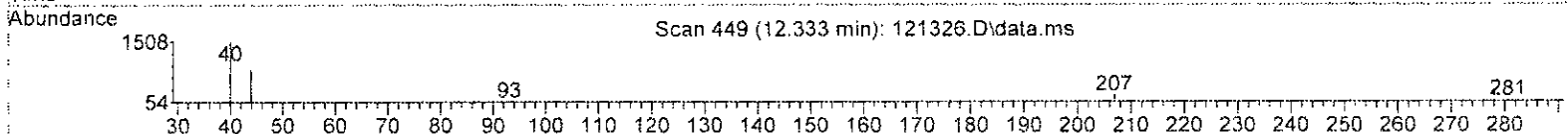
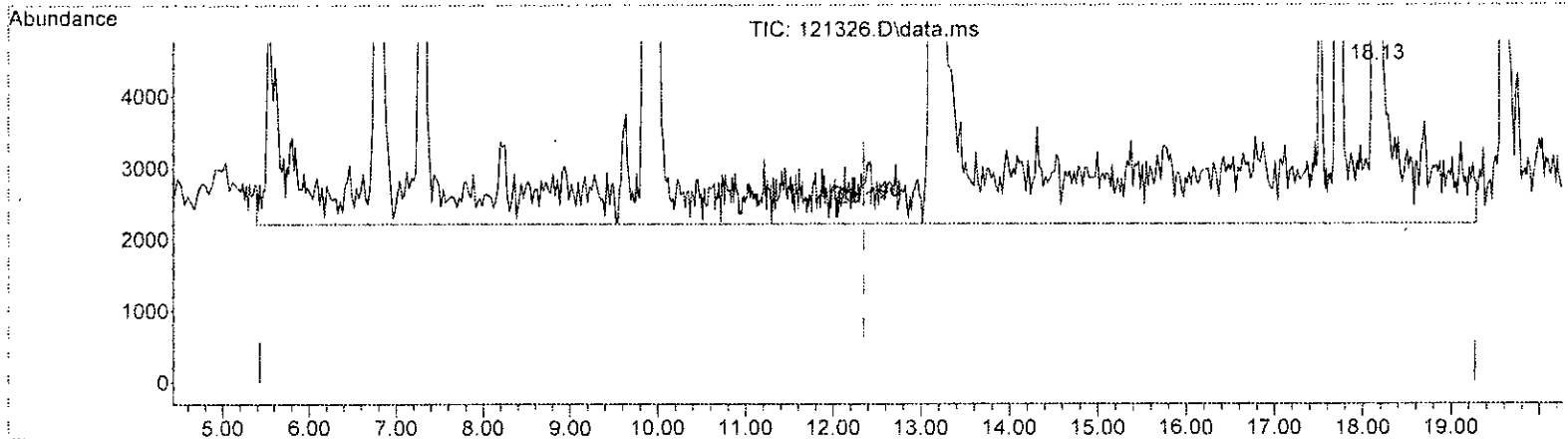
(19) APH EC5-8 aliphatics (H)			
12.350min	( 0.000)	32.875	ug/m3 m
response	489197		
Signal	Exp%	Act%	
TIC	100.00	100.00	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: h. g. 12/15/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH T0-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121326.D\data.ms

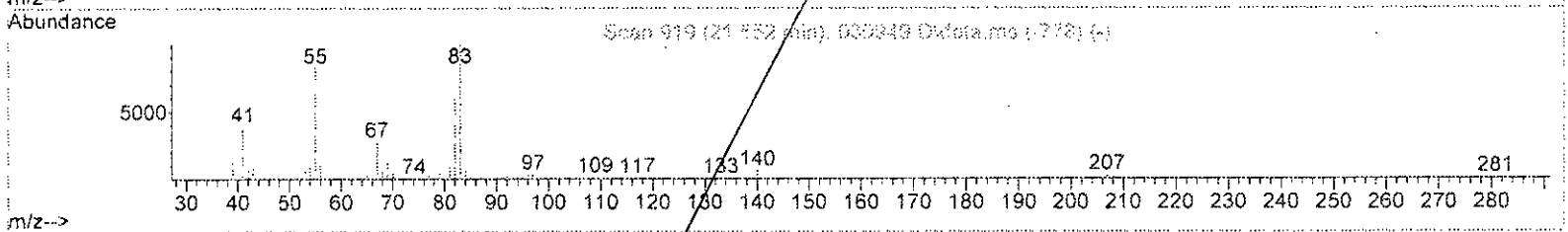
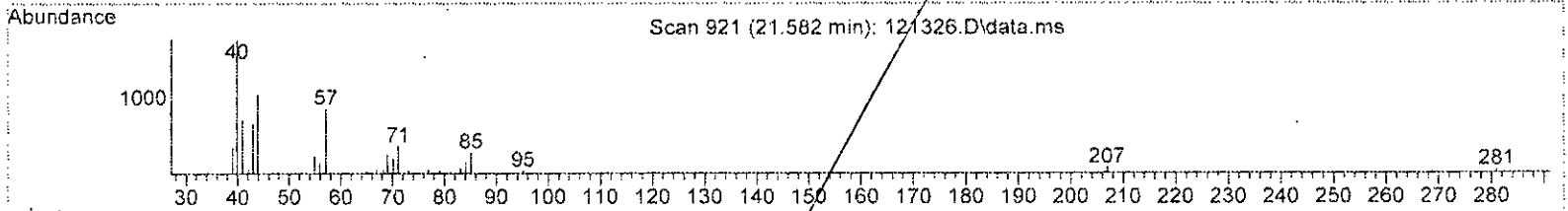
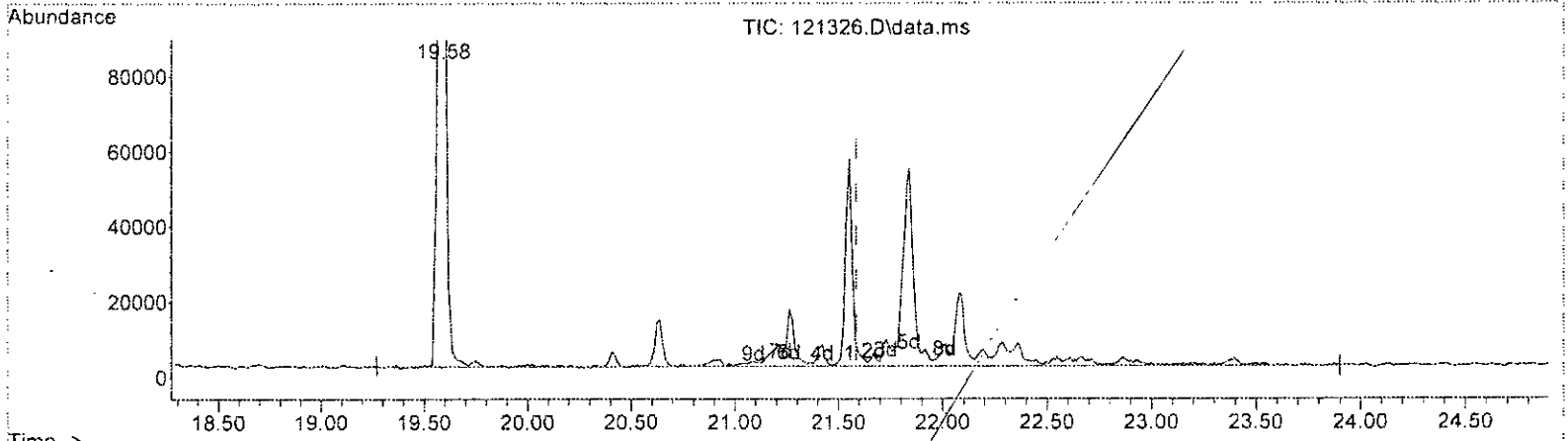
(19) APH EC5-8 aliphatics (H)			
12.350min ( 0.000) 163.418 ug/m3 m			
response	2431745		
Signal	Exp%	Act%	
TIC	100.00	100.00	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121326.D\data.ms

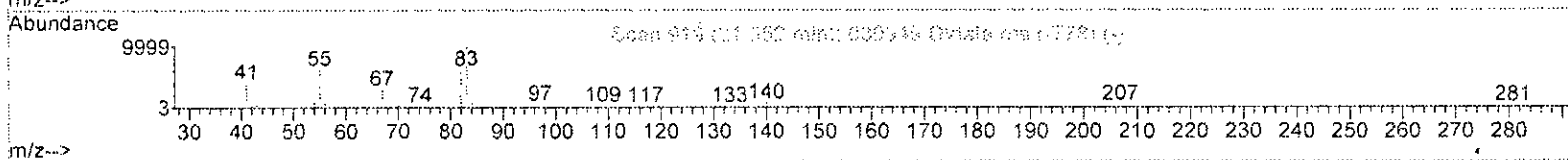
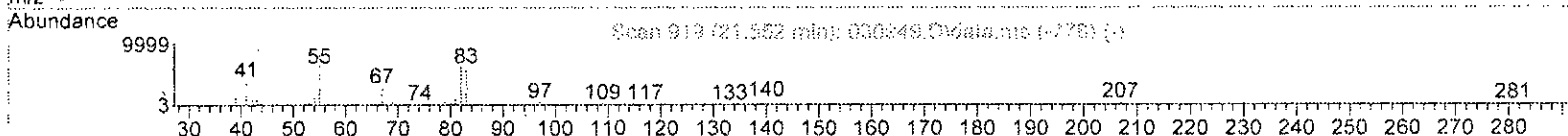
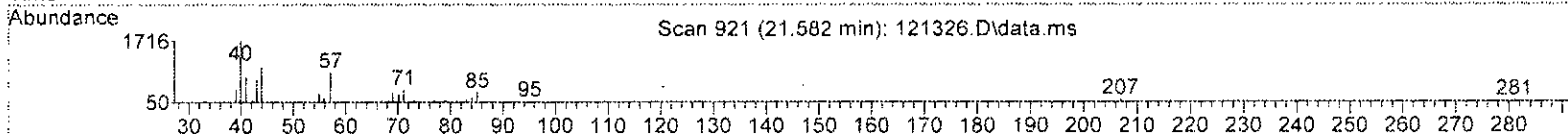
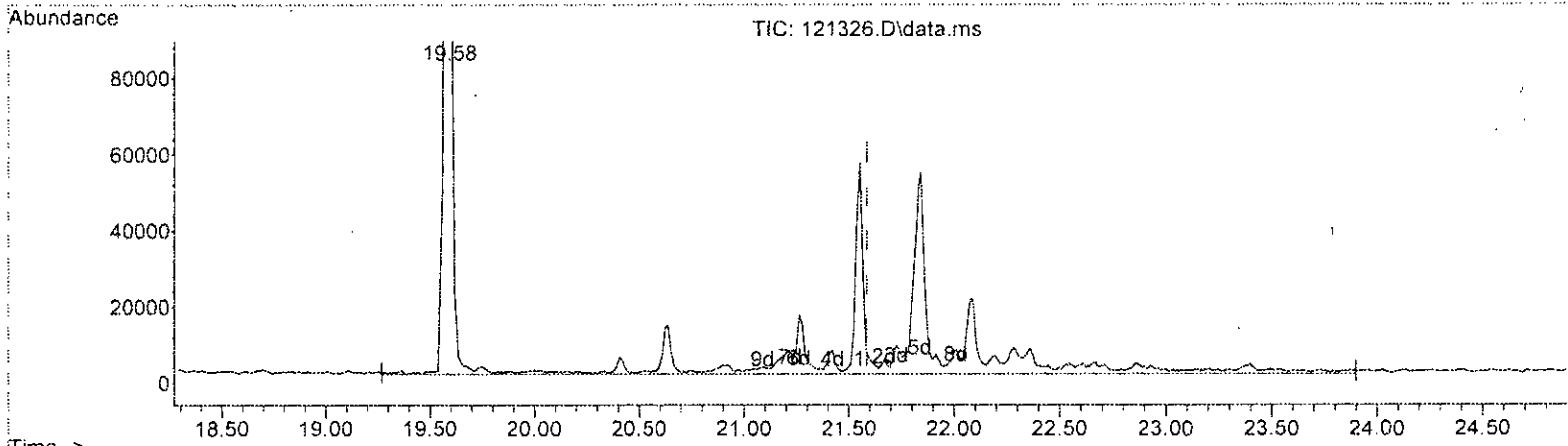
(36) APH EC9-12 aliphatics (H)			
21.585min ( 0.000)	33.205 ug/m3 m		
response	547945		
Signal	Exp%	Act%	
TIC	100.00	100.00	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	

*h m/s/w*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121326.D\data.ms

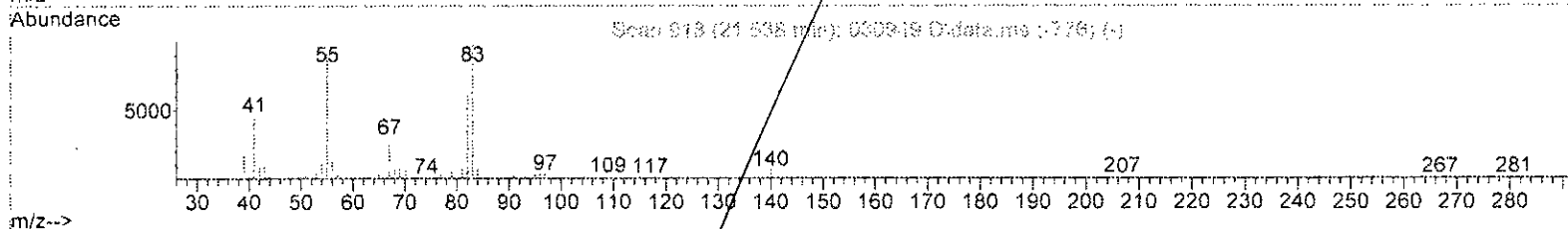
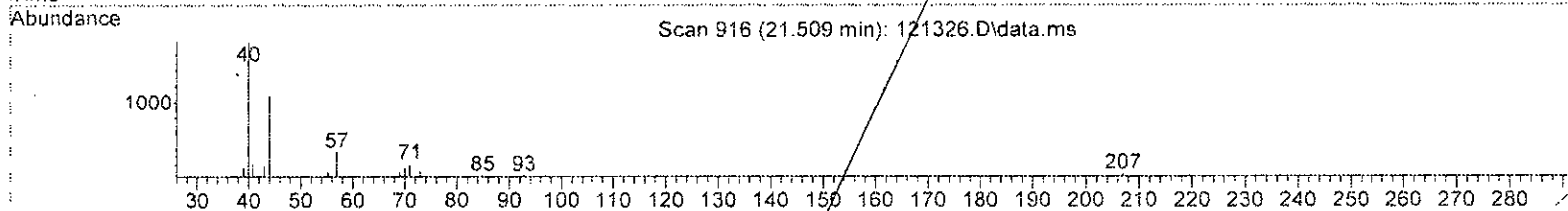
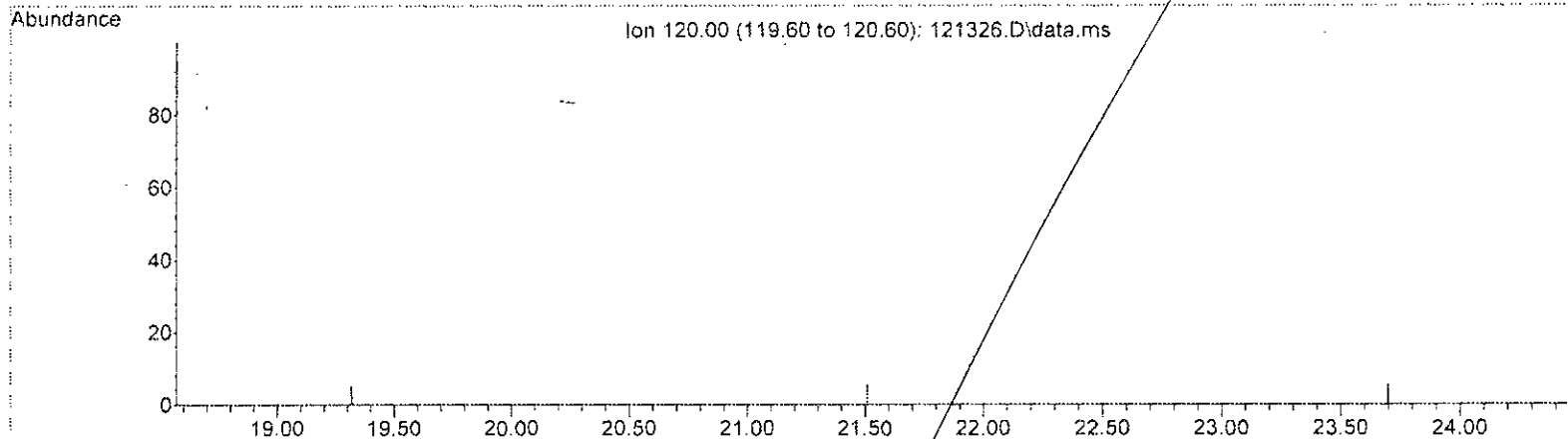
(36) APH EC9-12 aliphatics (H)			
21.585min ( 0.000) 74.827 ug/m3 m			
response	1234784		
Signal	Exp%	Act%	
TIC	100.00	100.00	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	

h  
12/15/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH T0-15 method  
 Qlast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121326.D\data.ms

(44) APH EC9-10 aromatics (1) (H)  
 21.509min ( 0.000) -243.629 ug/m3 m  
 response -559573

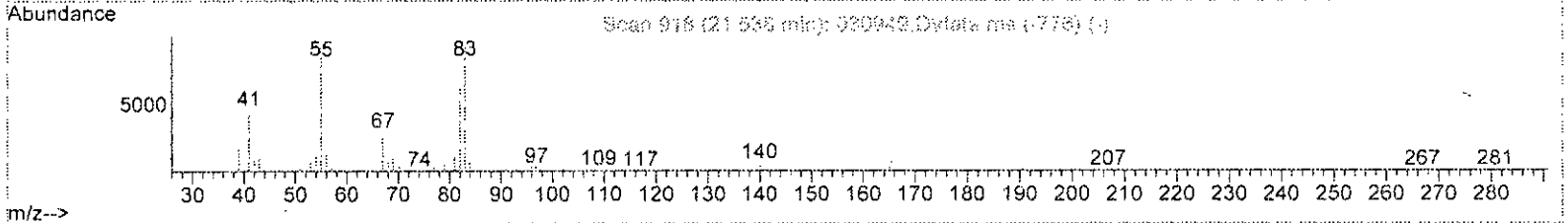
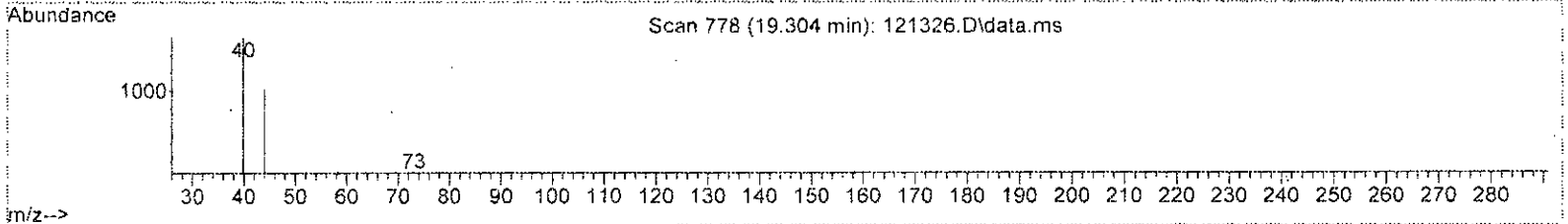
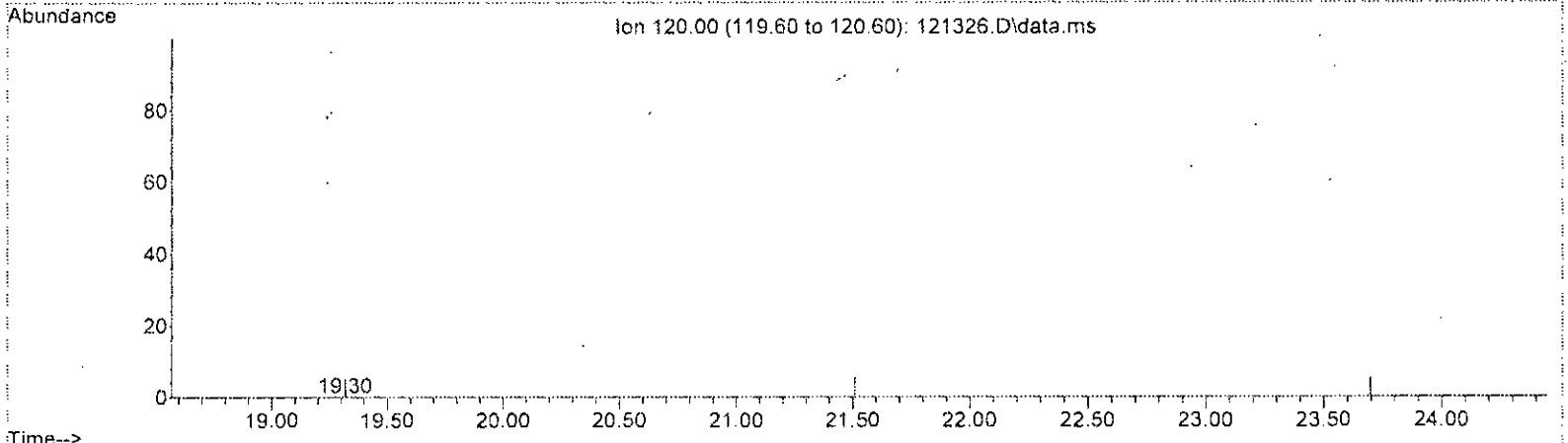
Ion	Exp%	Act%
120.00	100.00	100.00
0.00	0.00	-0.00
0.00	0.00	-0.00
0.00	0.00	-0.00

*Handwritten signature: A. Alifan*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121326.D\data.ms

Ion	Exp%	Act%
120.00	100.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

(44) APH EC9-10 aromatics (1) (H)  
 21.509min ( 0.000) 0.000 ug/m3 m  
 response 0

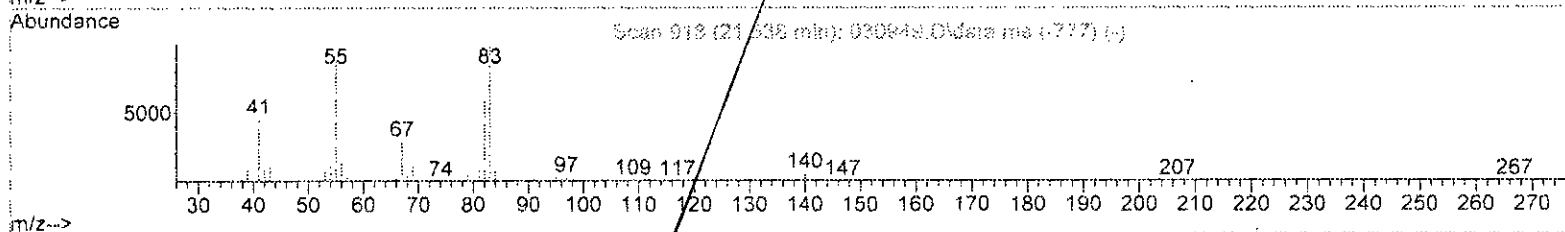
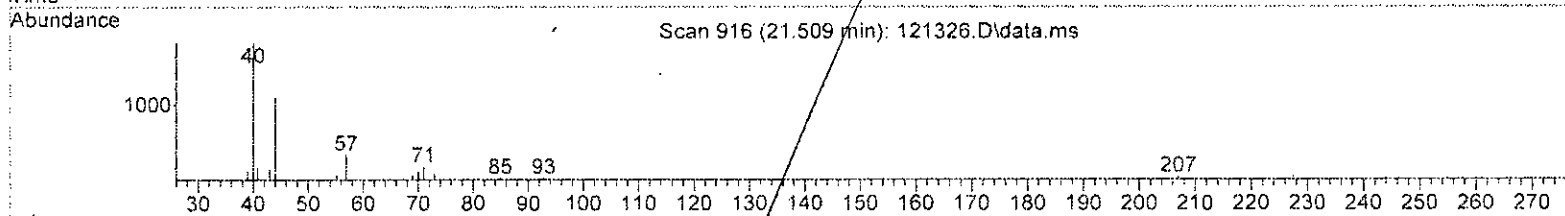
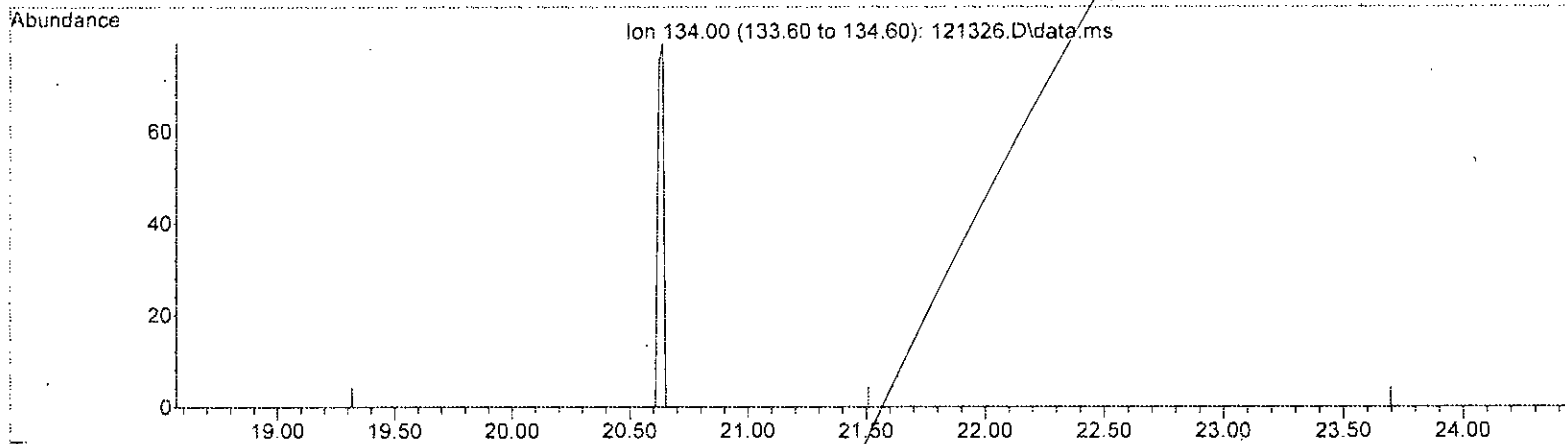
*Handwritten signature: a rafstew*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121326.D\data.ms

(45) APH EC9-10 aromatics (2) (H)

21.509min ( 0.000) -419.375 ug/m3 m

response -559464

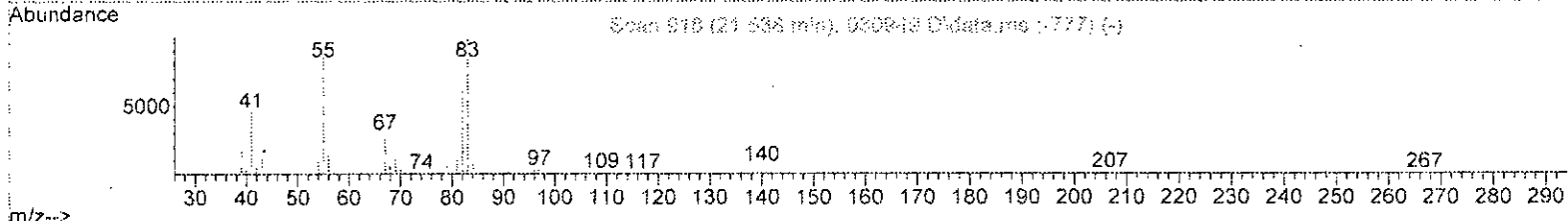
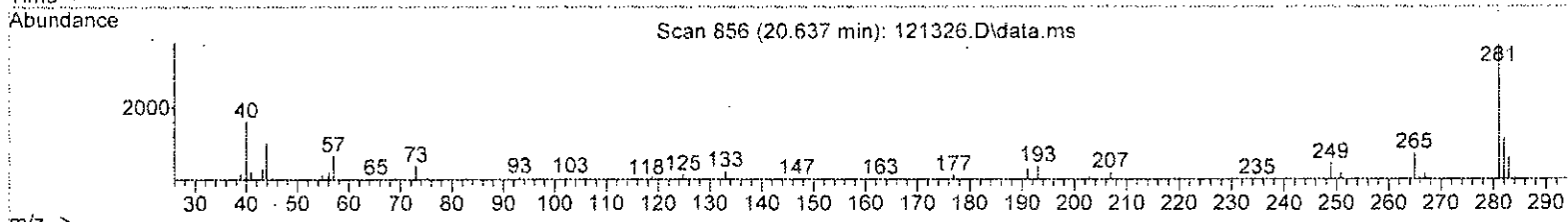
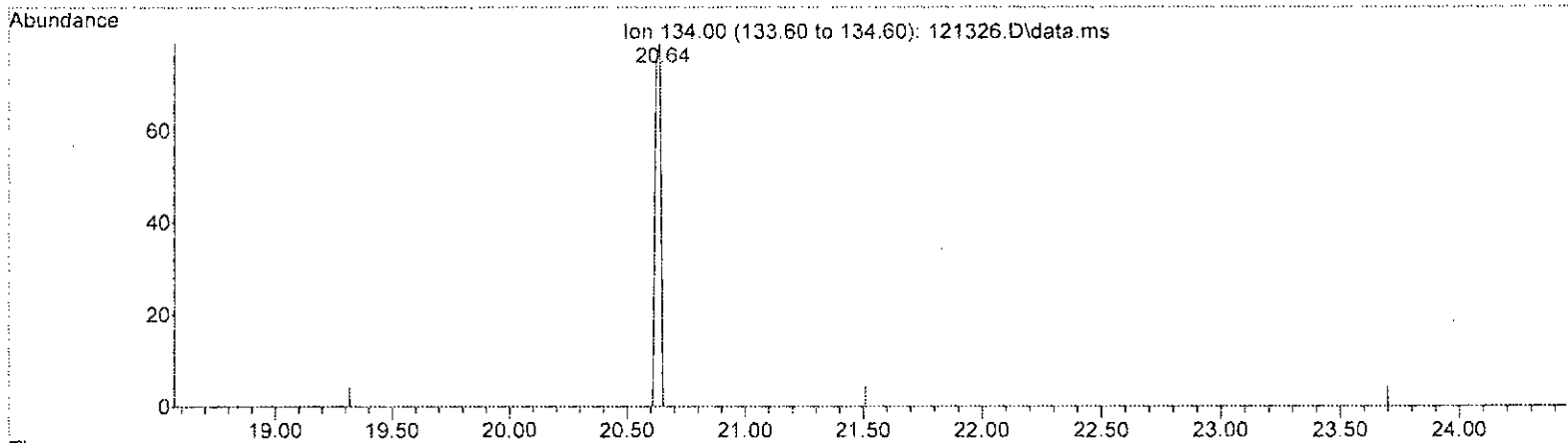
Ion	Exp%	Act%
134.00	100.00	100.00
0.00	0.00	-0.00
0.00	0.00	-0.00
0.00	0.00	-0.00

*h*  
*calibration*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121326.D\data.ms

(45) APH EC9-10 aromatics (2) (H)  
 21.509min ( 0.000) 0.082 ug/m3 m  
 response 109

Ion	Exp%	Act%
134.00	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*h  
calculated*

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	52065	50.000	ug/m3	# 0.00
10) 1,4-Difluorobenzene	13.14	114	208818	50.000	ug/m3	0.00
20) Chlorobenzene-d5	18.13	117	192391	50.000	ug/m3	0.00

System Monitoring Compounds						
37) 4-Bromofluorobenzene	19.58	95	111935	60.180	ug/m3	0.00
Spiked Amount	71.000	Range	70 - 130	Recovery	=	84.76%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) IS-1 Bromochloromethane	9.88	TIC	419207m	50.738	ug/m3	
3) IS-2 1,4-Difluorobenzene	13.14	TIC	553396	50.366	ug/m3	96
4) IS-3 Chlorobenzene-d5	18.13	TIC	631669	46.152	ug/m3	95
5) Methylene chloride	6.78	TIC	46290	249.673	ug/m3	96
6) Acetone	5.53	TIC	20053	12.827	ppbv	100
7) 2-Propanol	5.80	TIC	7424	1.018	ppbv	100
8) 1,3-Butadiene	0.00		0	N.D.		
9) Methyl t-butyl ether	0.00		0	N.D.		
11) Benzene	12.61	78	113	0.014	ug/m3	61
12) Isopentane	5.53	TIC	20053	1.443	ug/m3#	53
13) Hexane	9.88	TIC	432021	30.080	ug/m3	61
14) Cyclohexane	12.96	TIC	3733	0.240	ug/m3	91
15) 2,3-Dimethylpentane	13.14	TIC	553396	28.065	ug/m3	64
16) Heptane	14.53	TIC	3808	0.249	ug/m3	61
17) Octane	17.37	TIC	1444	0.145	ug/m3#	61
18) APH EC5-8 aliphatics T...	12.43	TIC	1014455m	68.173	ug/m3	
19) APH EC5-8 aliphatics	12.35	TIC	2431745m	163.418	ug/m3	
21) S 4-Bromofluorobenzene	19.58	TIC	566342	44.191	ug/m3	95
22) Hexamethylcyclotrisilo...	17.72	TIC	128823	35.515	ppbv	100
23) Octamethylcyclotetrasil...	20.64	TIC	34175	41.931	ppbv	100
24) Toluene	0.00		0	N.D.		
25) Ethylbenzene	18.54	91	156	0.019	ug/m3#	44
26) m,p-Xylene	0.00		0	N.D.		
27) o-Xylene	0.00		0	N.D.		
28) Naphthalene	0.00		0	N.D.		
29) 2,3-Dimethylheptane	18.50	TIC	4210	0.226	ug/m3#	58
30) Nonane	19.36	TIC	1346	0.075	ug/m3#	64
31) Decane	20.93	TIC	7706	1.417	ug/m3	90
32) Butylcyclohexane	21.55	TIC	126985	5.551	ug/m3	64
33) Undecane	22.19	TIC	7900	1.739	ug/m3	96
34) Dodecane	23.39	TIC	7138	5.628	ug/m3	85
35) APH EC9-12 aliphatics ...	21.55	TIC	155285m	9.410	ug/m3	
36) APH EC9-12 aliphatics	21.59	TIC	1234784m	74.827	ug/m3	
38) Isopropylbenzene	0.00		0	N.D.		
39) 1-Methyl-3-ethylbenzene	0.00		0	N.D.		
40) 1,3,5-Trimethylbenzene	0.00		0	N.D.		
41) p-Isopropyltoluene	0.00		0	N.D.		
42) 1,2,3-Trimethylbenzene	0.00		0	N.D.		

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

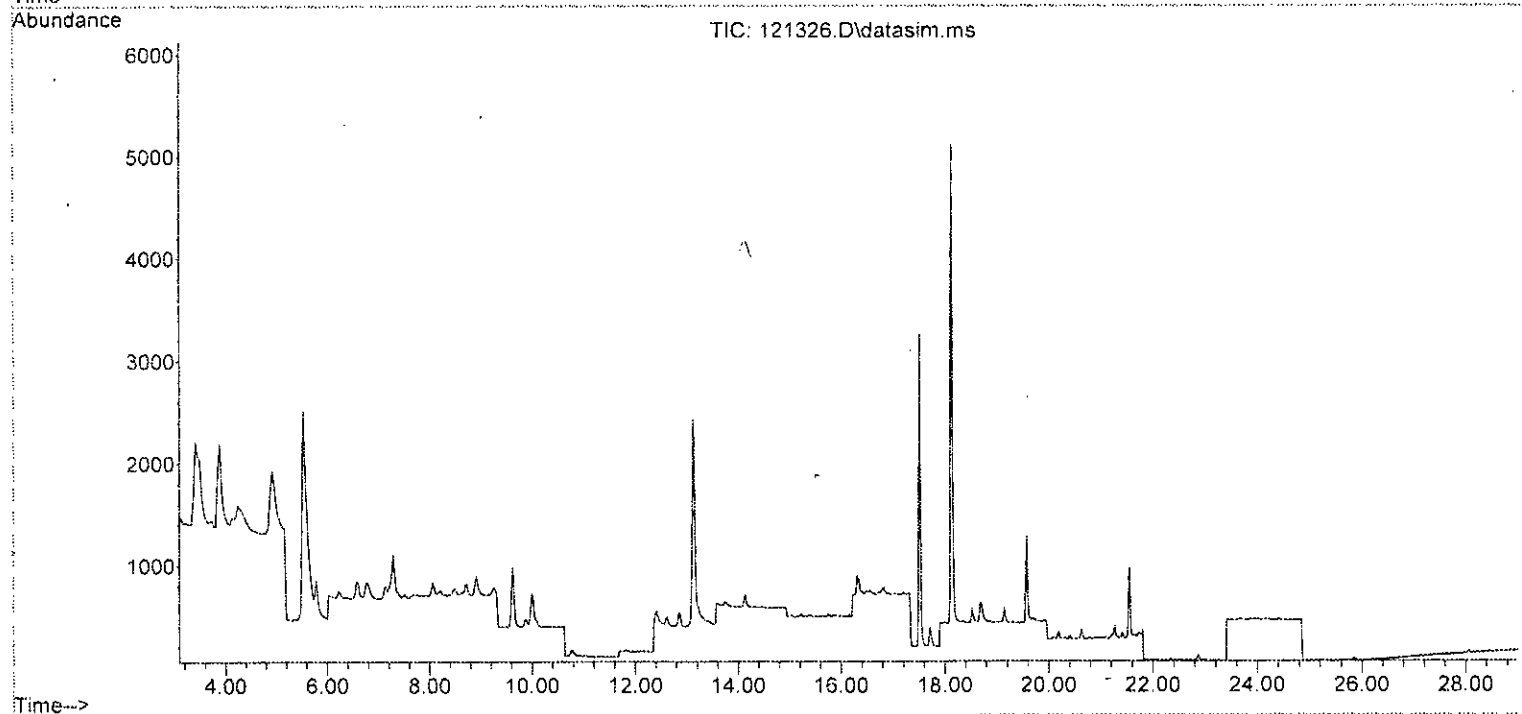
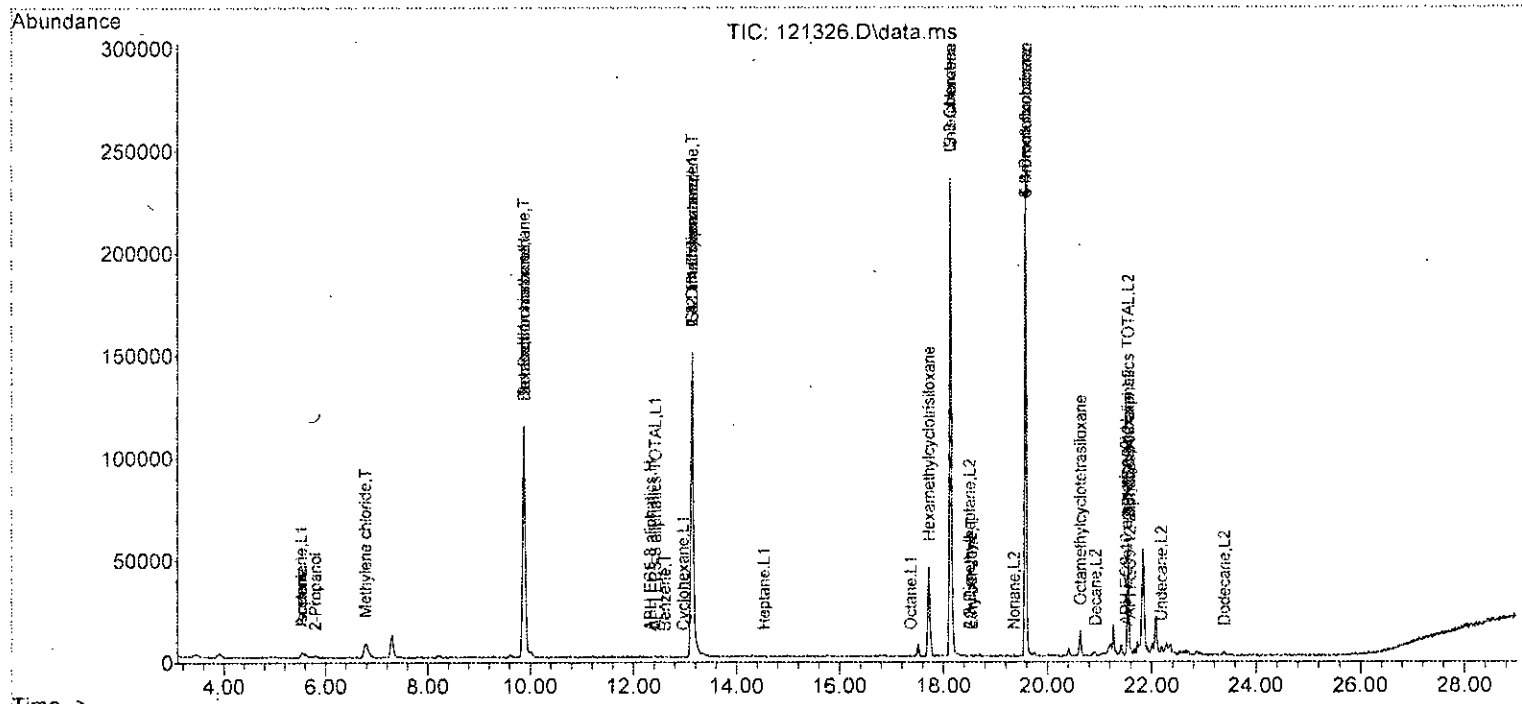
Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH T0-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) APH EC9-10 aromatics T...	21.55		0			N.D.
44) APH EC9-10 aromatics (1)	21.51		0			N.D.
45) APH EC9-10 aromatics (2)	21.51	134	109m	0.082	ug/m3	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

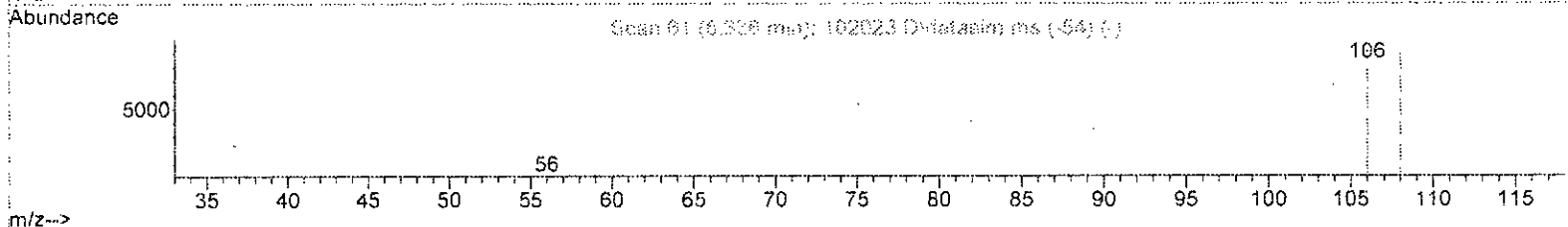
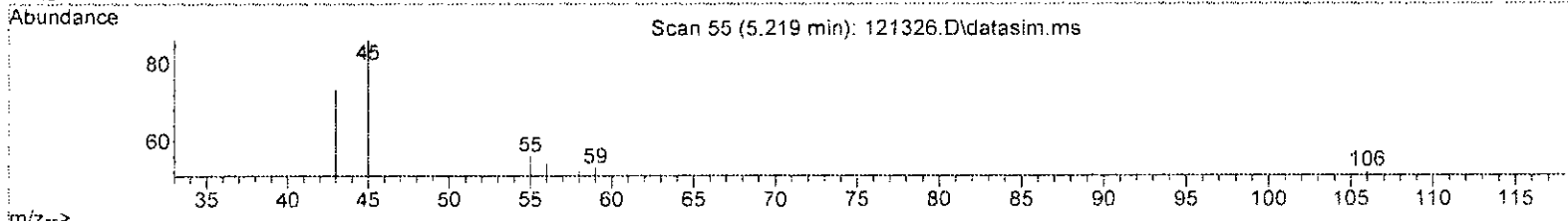
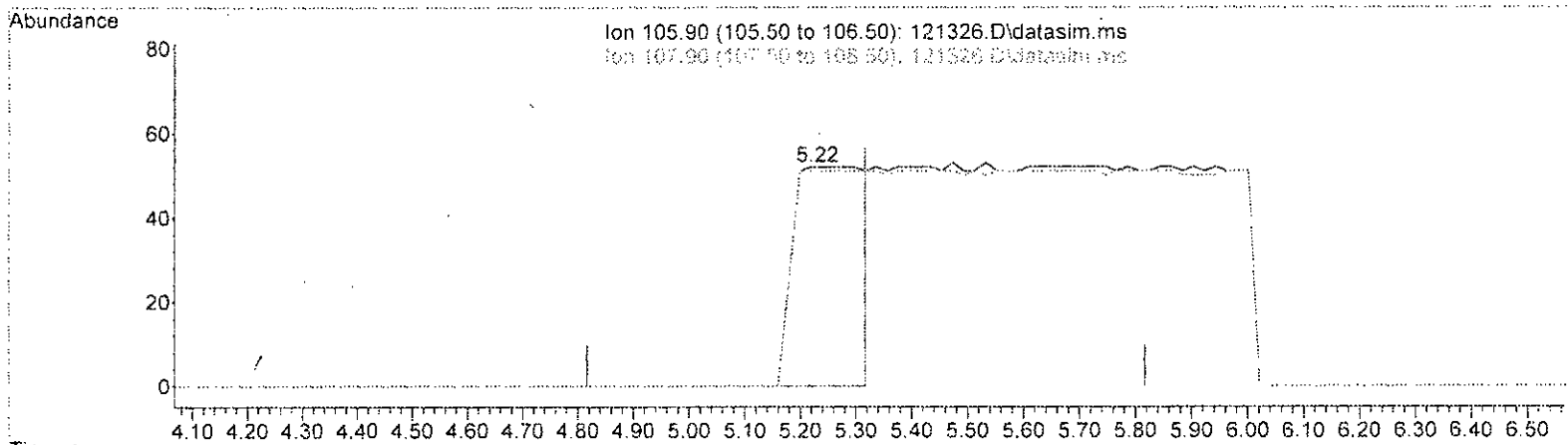
Quant Time: Dec 15 15:36:40 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH T0-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:29 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121326.D\data.ms

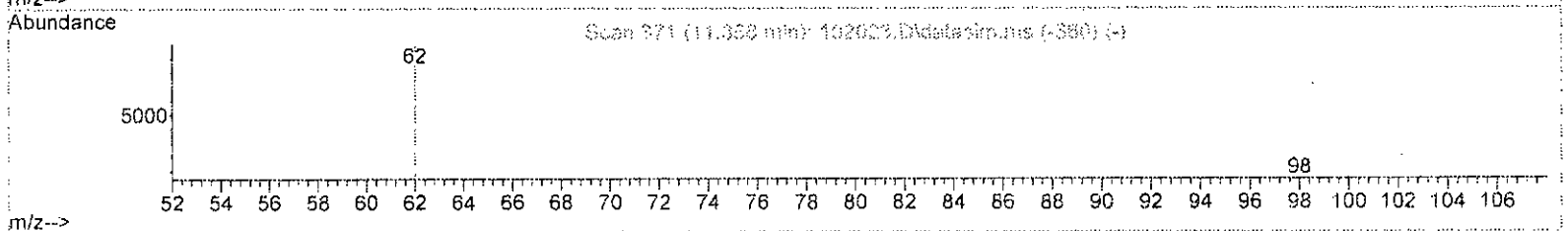
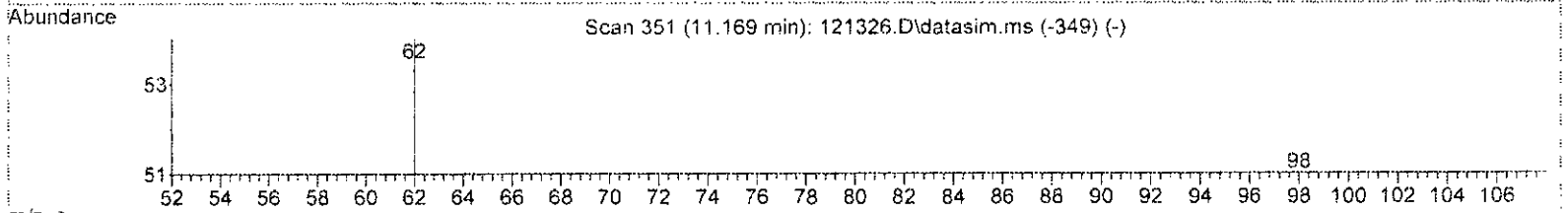
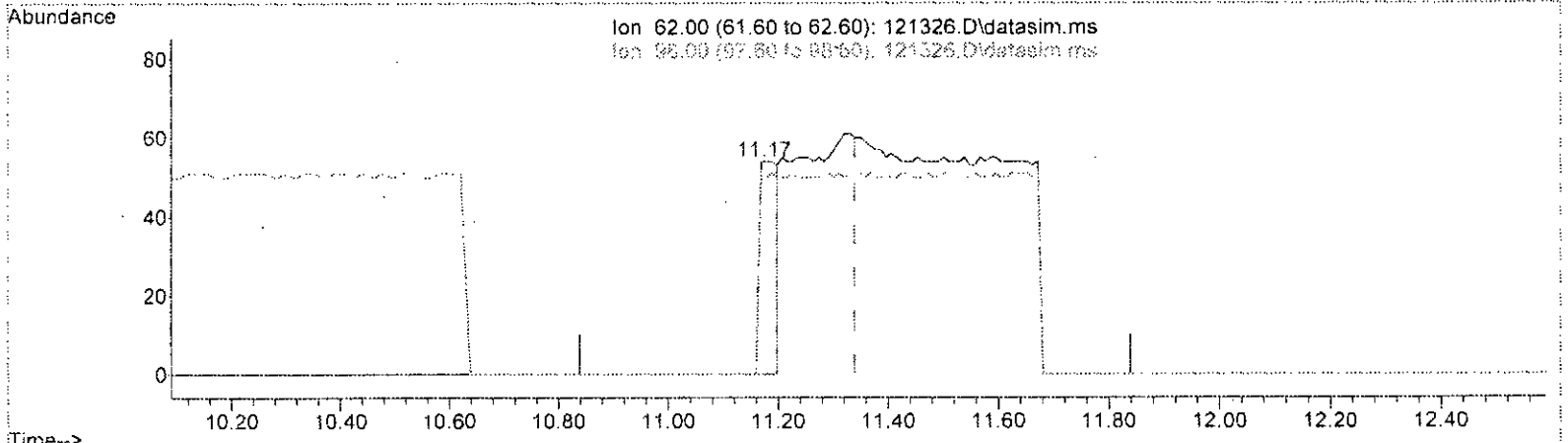
(11) Vinyl bromide (TMP)  
 5.219min (-0.098) 0.064 ppbv  
 response 534

Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:29 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121326.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

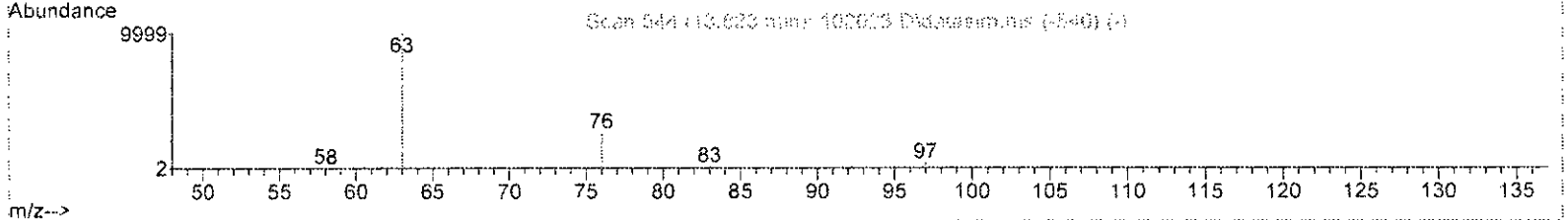
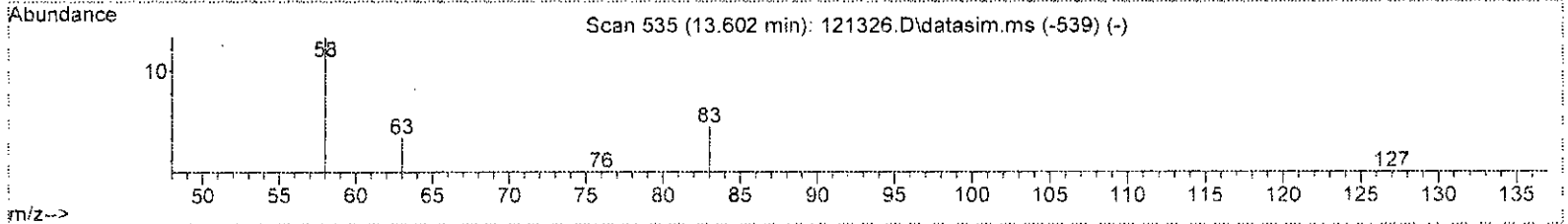
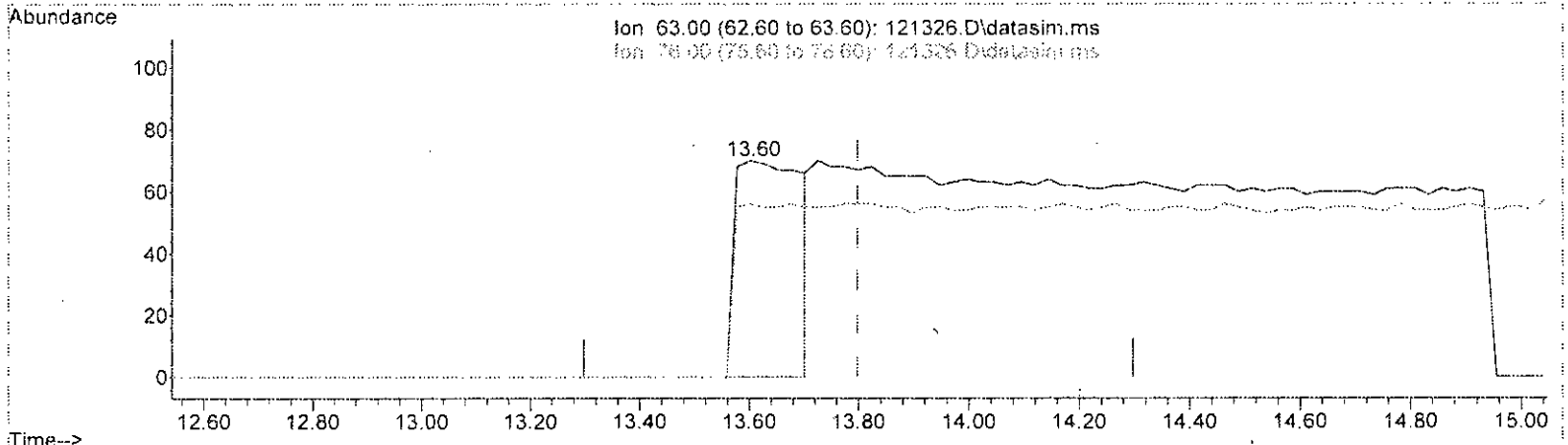
11.169min (-0.170) 0.005 ppbv

response	122	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	94.44#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:29 2022  
 Quant Method : D:\GCMS7 Methods\111ST015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121326.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.602min (-0.196) 0.049 ppbv

response 554

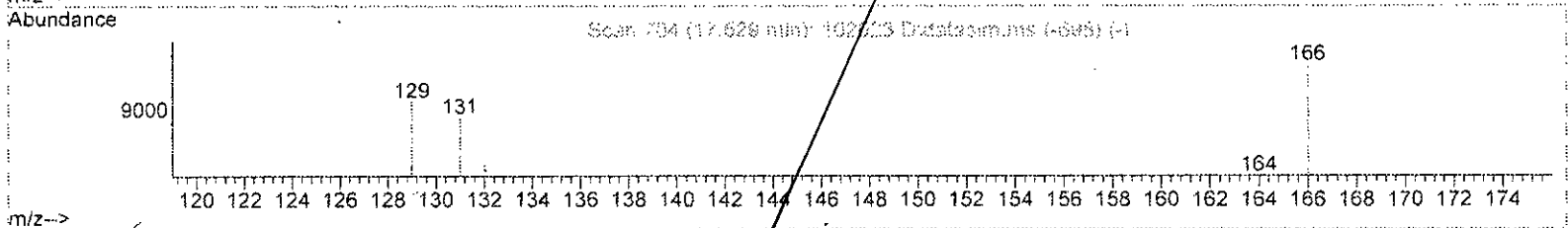
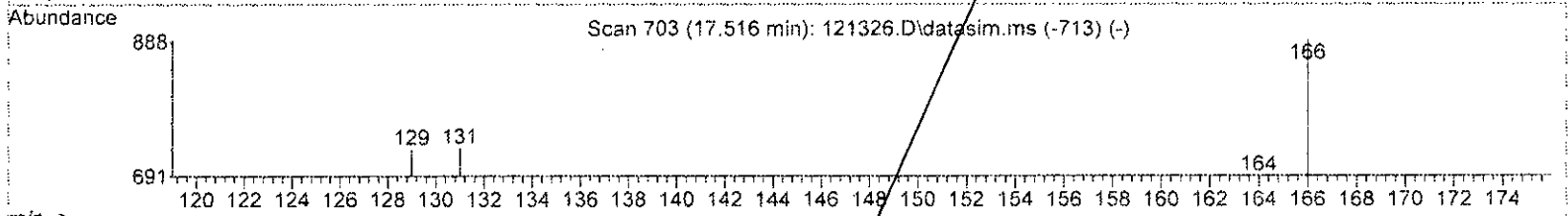
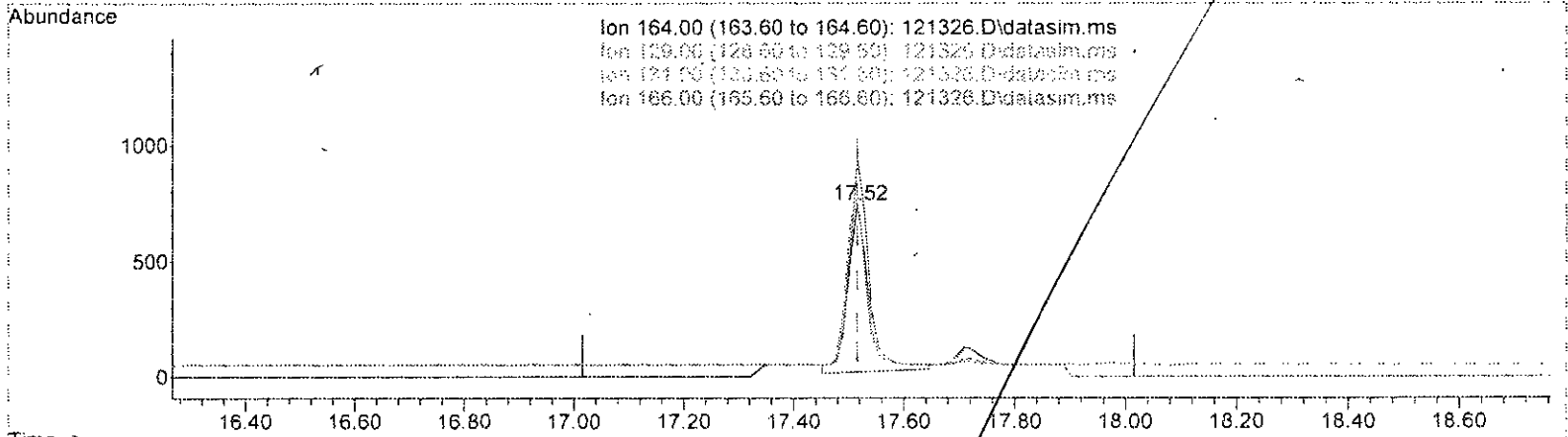
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	80.00#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:29 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121326.D\data.ms

(53) Tetrachloroethene (TME)

17.516min (+ 0.000) 0.185 ppbv

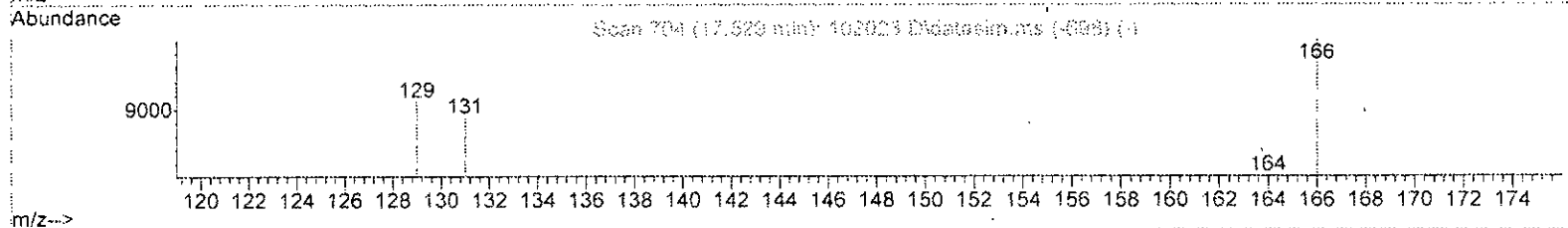
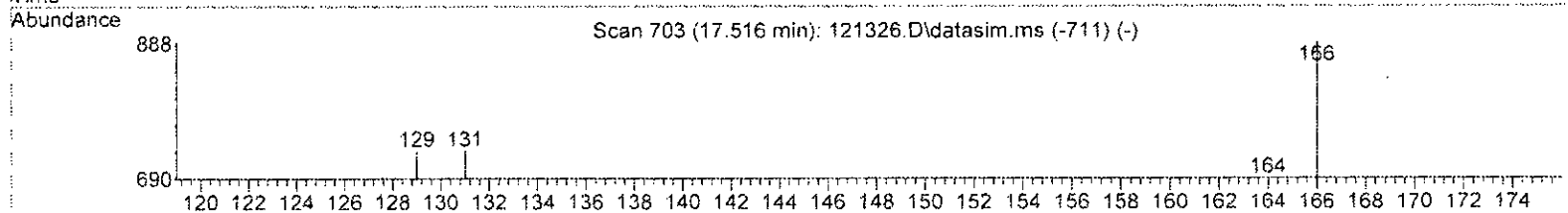
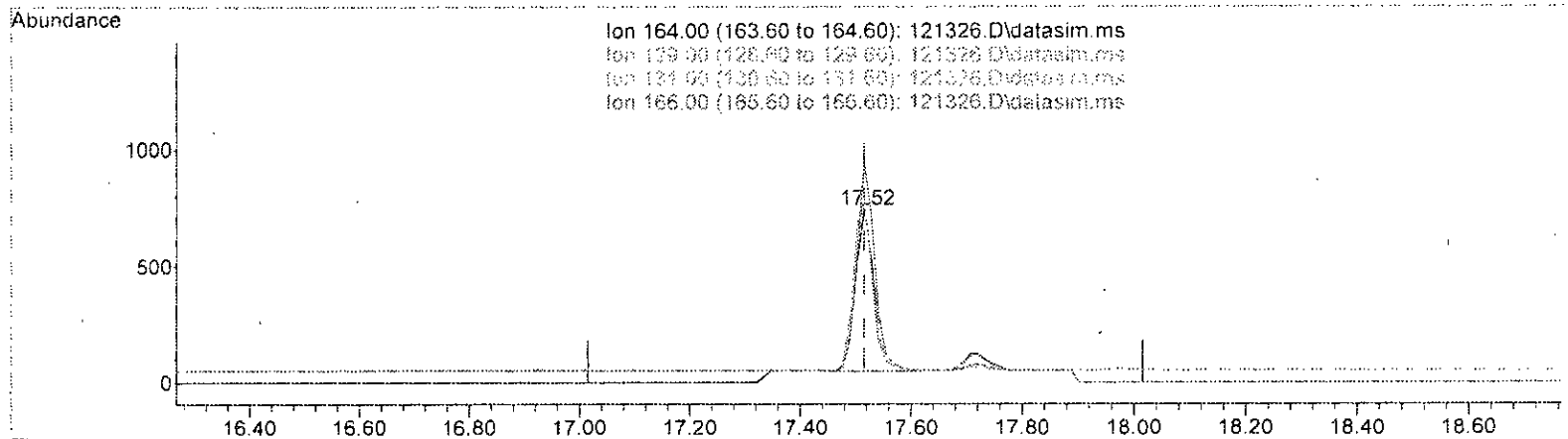
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	105.48
131.00	100.70	105.63
166.00	137.50	128.57

*h*  
*calibration*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:29 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121326.D\data.ms

(53) Tetrachloroethene (TMP)

17.516min (+ 0.000) 0.156 ppbv m

response 1596

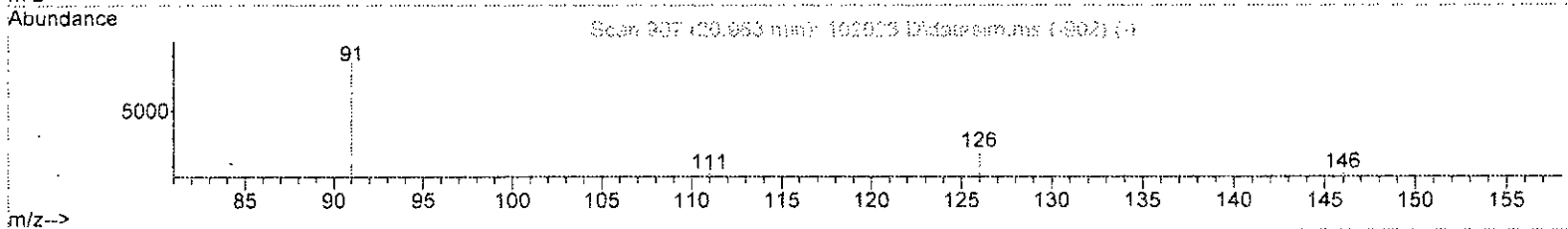
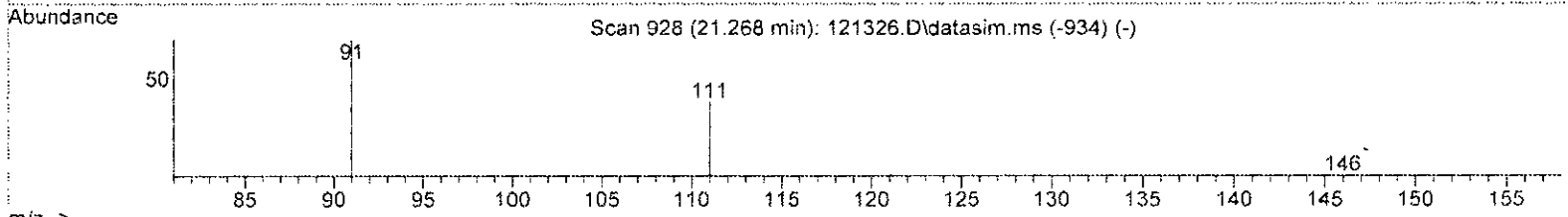
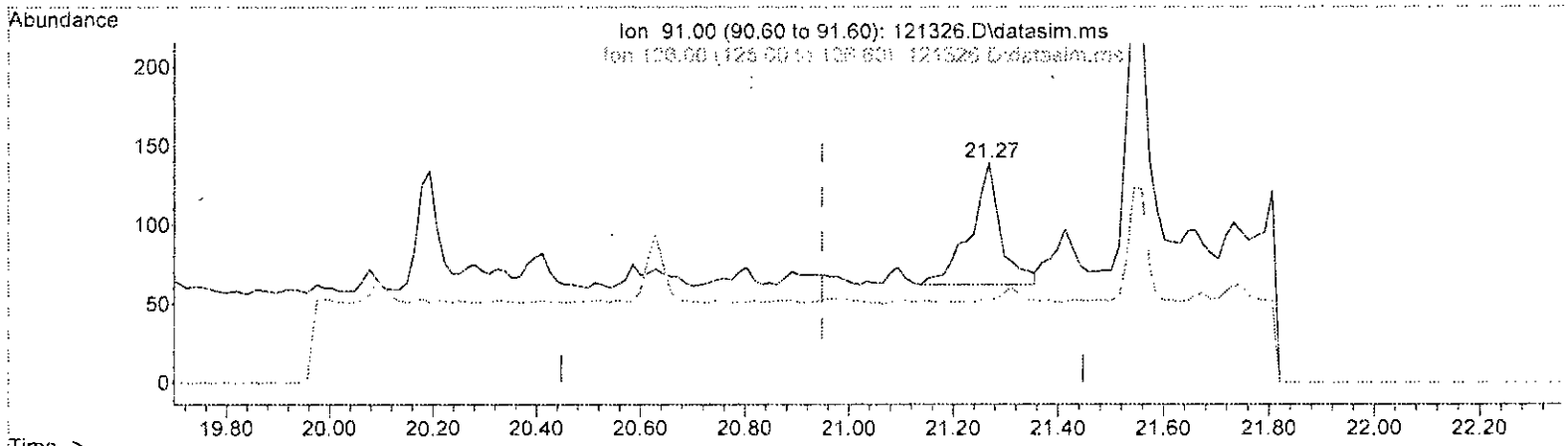
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	105.25
131.00	100.70	105.52
166.00	137.50	126.65

*h  
calculated*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:29 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121326.D\data.ms

(70) Benzyl chloride (TMP)  
 21.268min (+ 0.320) 0.014 ppbv  
 response 308

Ion	Exp%	Act%
91.00	100.00	100.00
126.00	20.00	1.30
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

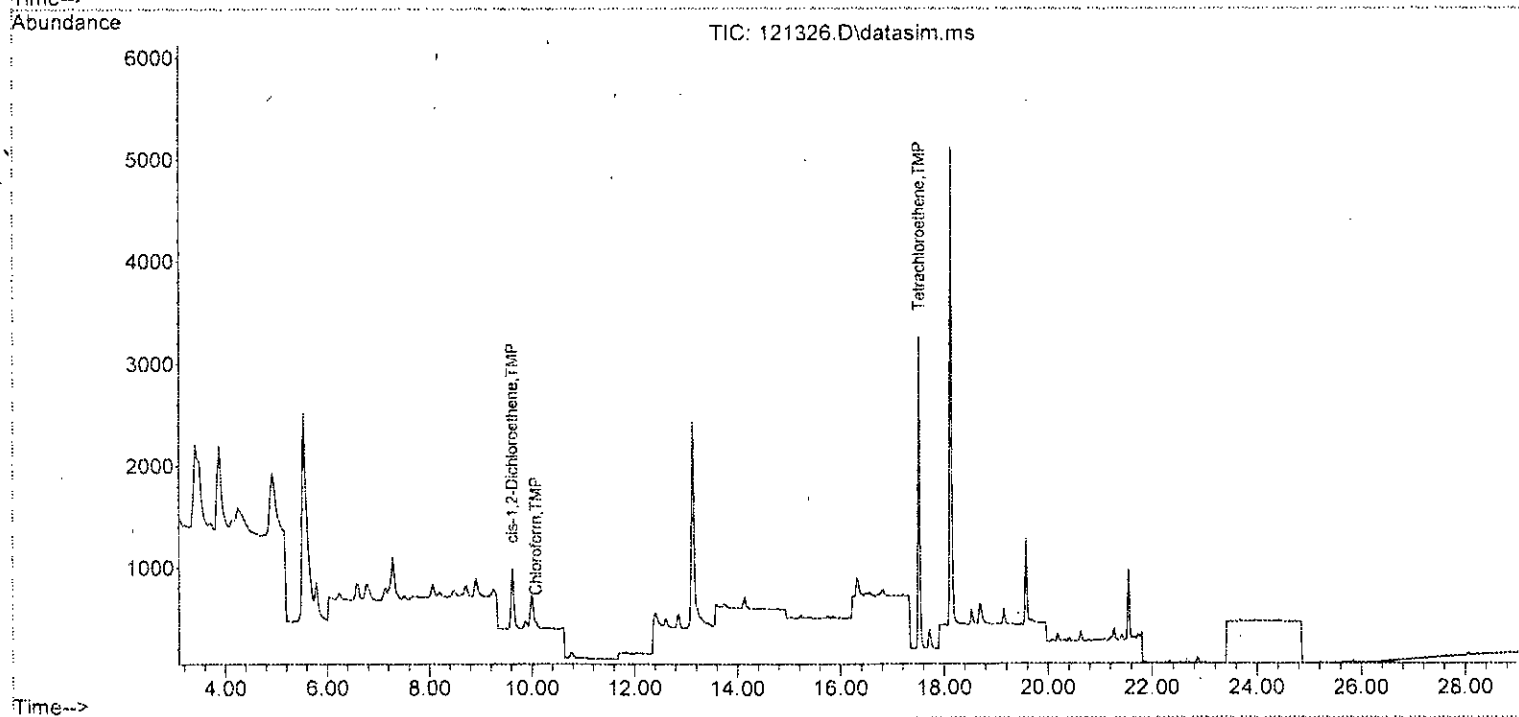
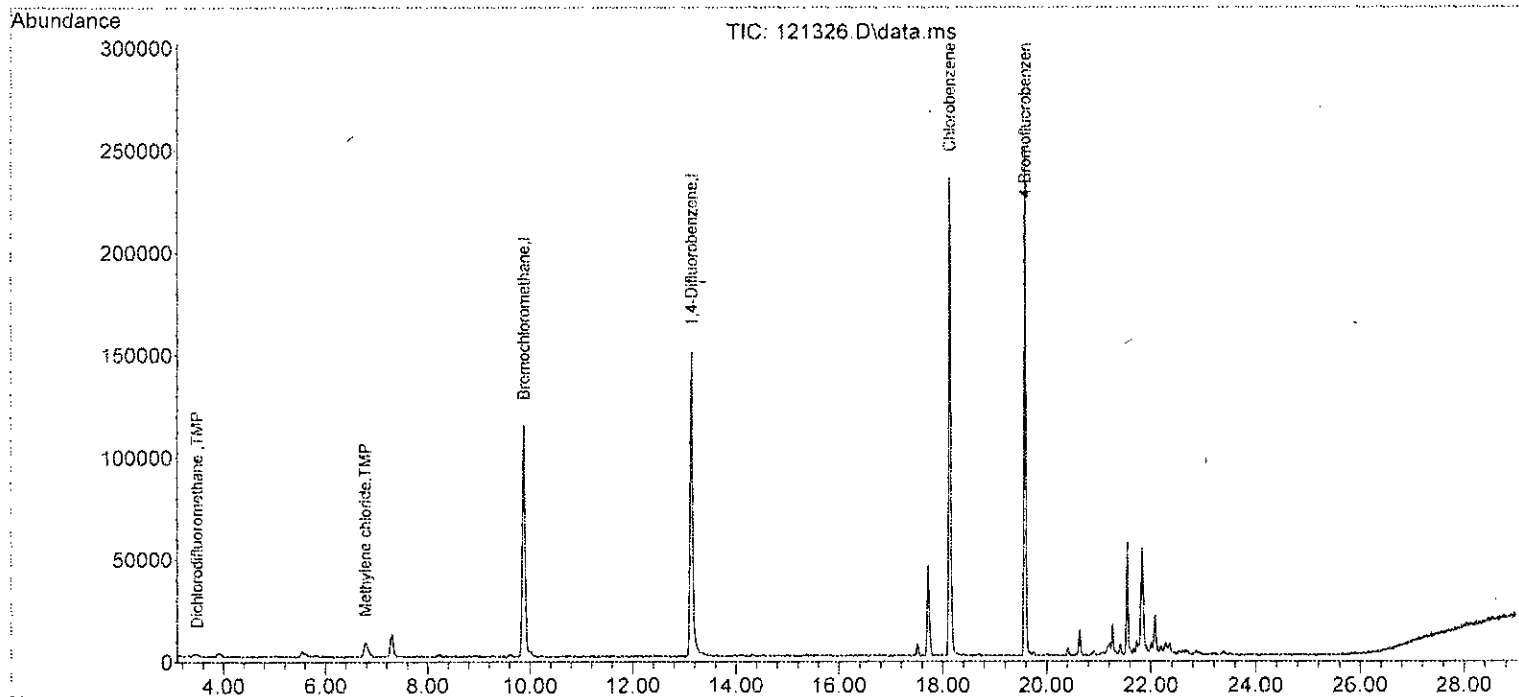
Quant Time: Dec 14 14:56:29 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

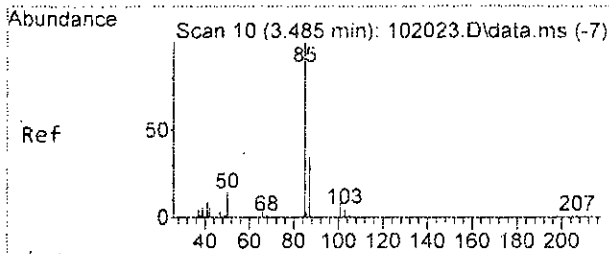
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.88	128	52065	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	208818	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	192391	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	111935	8.395	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	84.00%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.49	85	2060	0.096	ppbv	94
20) Methylene chloride	6.78	84	9665	1.255	ppbv	93
28] cis-1,2-Dichloroethene	9.62	96	702	0.080	ppbv	83
30] Chloroform	10.08	83	107	0.001	ppbv	93
37] Benzene	12.61	78	259	Below Cal		97
53] Tetrachloroethene	17.52	164	1596m	0.156	ppbv	
77] Naphthalene	23.44	128	198	Below Cal	#	1
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-13-22\  
Data File : 121326.D  
Acq On : 14 Dec 2022 6:42 am  
Operator : bat  
Sample : 212012-01 dup 1/5.0  
Misc : T10  
ALS Vial : 26 Sample Multiplier: 1  
InstName : GCMS7

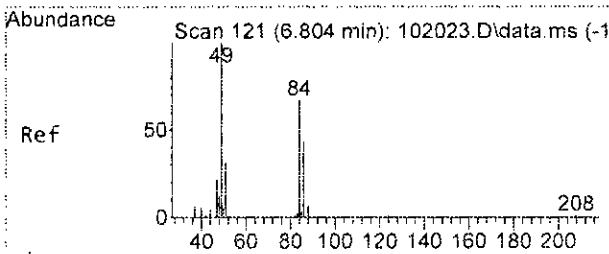
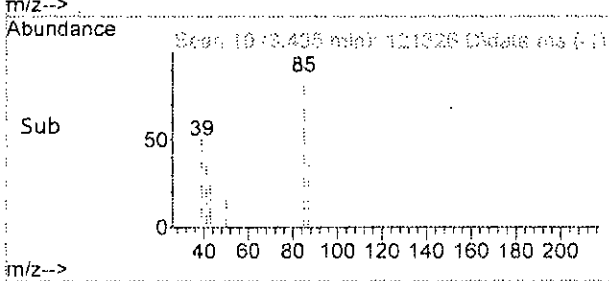
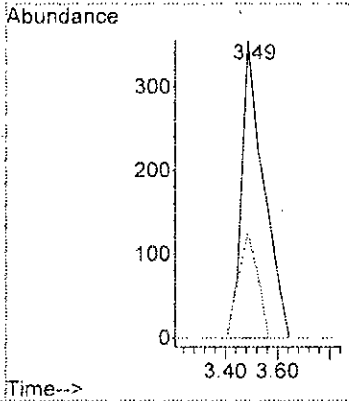
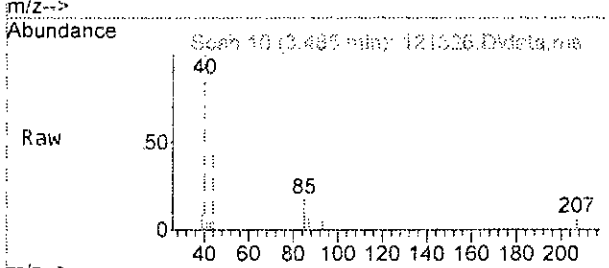
Quant Time: Dec 14 14:56:29 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth: T015DC.M





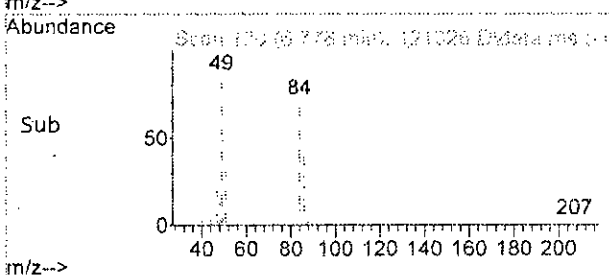
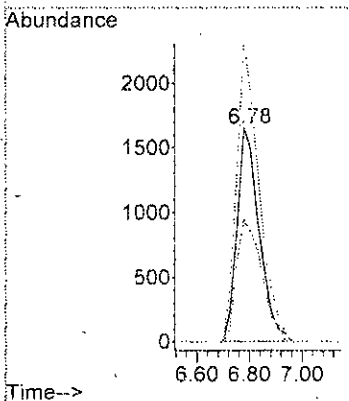
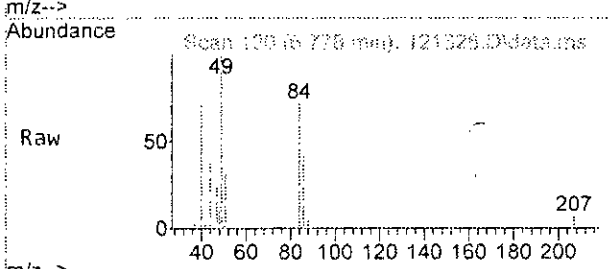
#3  
 Dichlorodifluoromethane  
 Concen: 0.096 ppbv  
 RT: 3.49 min Scan# 10  
 Delta R.T. 0.000 min  
 Lab File: 121326.D  
 Acq: 14 Dec 2022 6:42 am

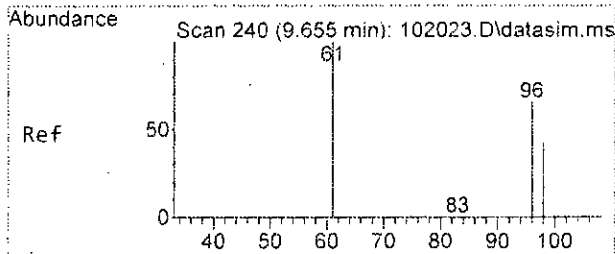
Tgt Ion: 85 Resp: 2060  
 Ion Ratio Lower Upper  
 85 100  
 87 35.5 2.2 62.2



#20  
 Methylene chloride  
 Concen: 1.255 ppbv  
 RT: 6.78 min Scan# 120  
 Delta R.T. -0.026 min  
 Lab File: 121326.D  
 Acq: 14 Dec 2022 6:42 am

Tgt Ion: 84 Resp: 9665  
 Ion Ratio Lower Upper  
 84 100  
 86 56.8 33.9 93.9  
 49 139.7 116.6 176.6

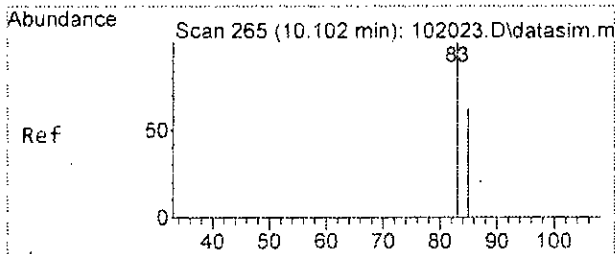
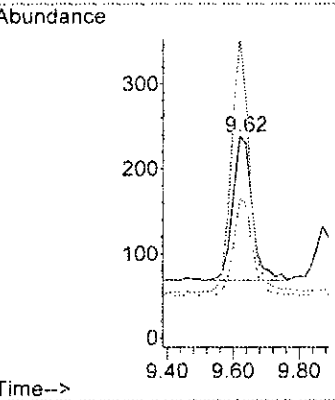
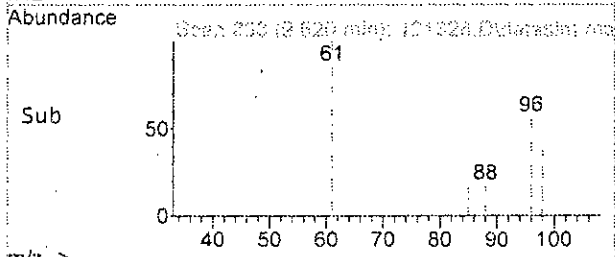
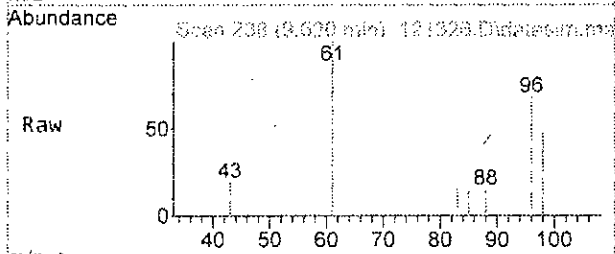




#28  
 cis-1,2-Dichloroethene  
 Concen: 0.080 ppbv  
 RT: 9.62 min Scan# 238  
 Delta R.T. -0.018 min  
 Lab File: 121326.D  
 Acq: 14 Dec 2022 6:42 am

Tgt Ion: 96 Resp: 702

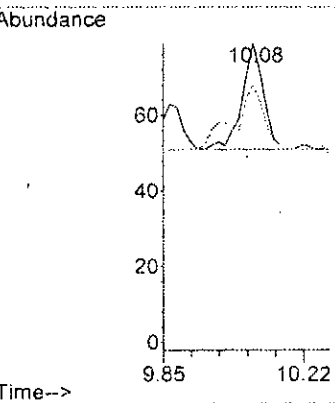
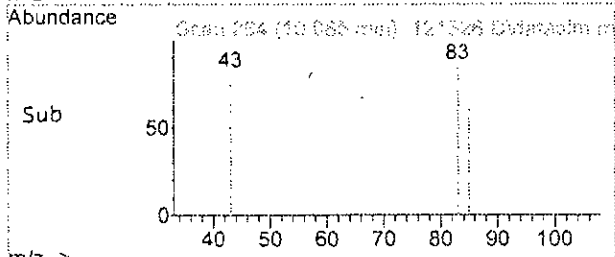
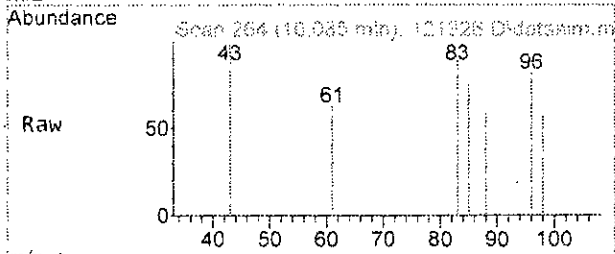
Ion	Ratio	Lower	Upper
96	100		
61	174.7	116.0	176.0
98	67.1	35.2	95.2

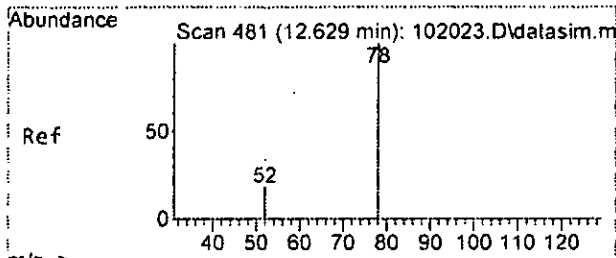


#30  
 Chloroform  
 Concen: 0.001 ppbv  
 RT: 10.08 min Scan# 264  
 Delta R.T. -0.017 min  
 Lab File: 121326.D  
 Acq: 14 Dec 2022 6:42 am

Tgt Ion: 83 Resp: 107

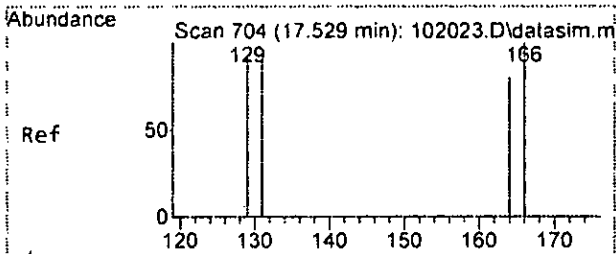
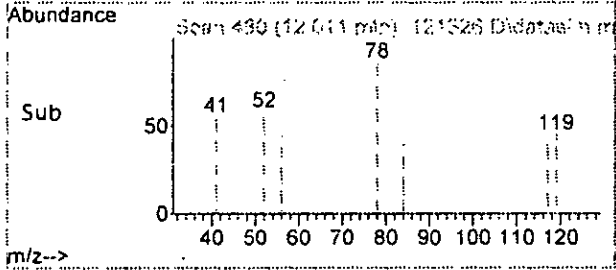
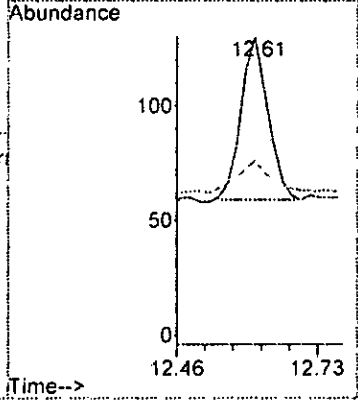
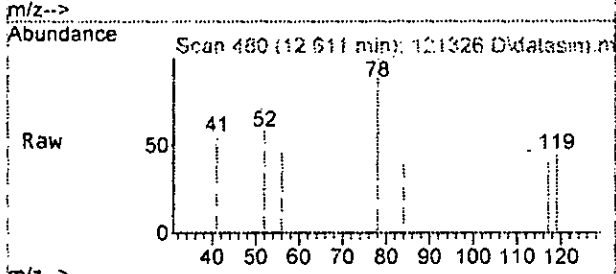
Ion	Ratio	Lower	Upper
83	100		
85	60.7	36.3	96.3





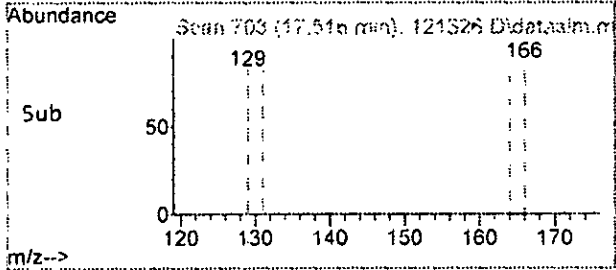
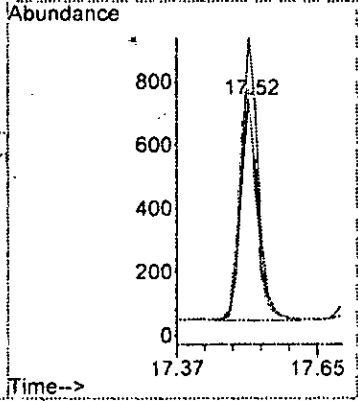
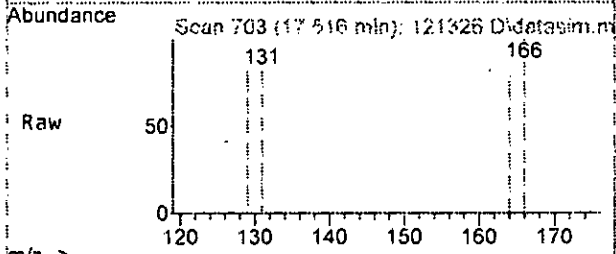
#37  
Benzene  
Concen: Below Cal  
RT: 12.61 min Scan# 480  
Delta R.T. 0.000 min  
Lab File: 121326.D  
Acq: 14 Dec 2022 6:42 am

Tgt Ion	Resp	Lower	Upper
78	100		
52	18.3	0.0	49.7

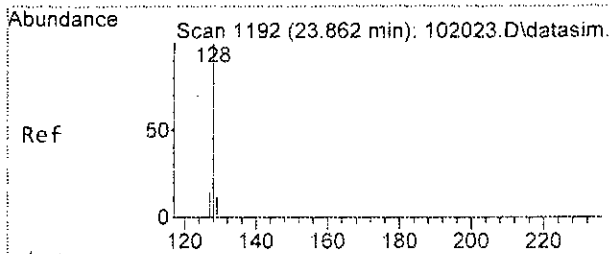


#53  
Tetrachloroethene  
Concen: 0.156 ppbv m  
RT: 17.52 min Scan# 703  
Delta R.T. 0.000 min  
Lab File: 121326.D  
Acq: 14 Dec 2022 6:42 am

Tgt Ion	Resp	Lower	Upper
164	100		
129	105.2	63.2	123.2
131	105.5	70.7	130.7
166	126.6	107.5	167.5

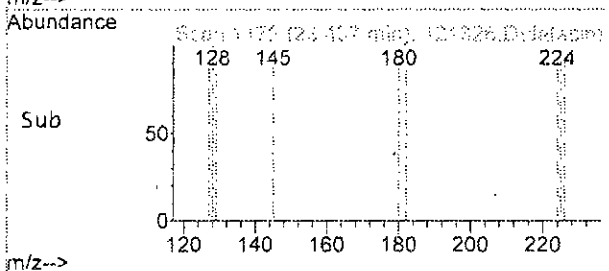
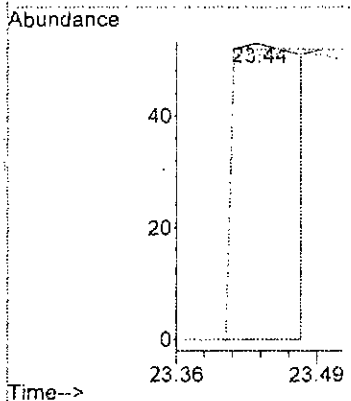
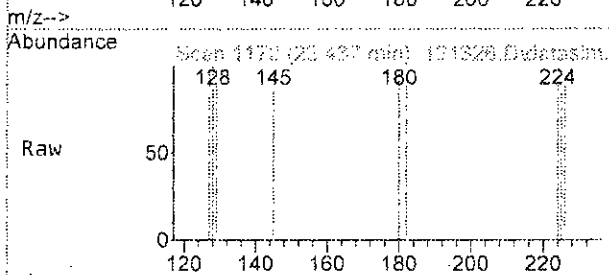






#77  
 Naphthalene  
 Concen: Below Cal  
 RT: 23.44 min Scan# 1172  
 Delta R.T. -0.404 min  
 Lab File: 121326.D  
 Acq: 14 Dec 2022 6:42 am

Tgt Ion	Resp	Lower	Upper
128	100		
129	98.1	0.0	41.0#
127	96.2	0.0	43.2#



Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:29 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Bromochloromethane	9.88	128	52065	10.000	ppbv	0.00	
39) 1,4-Difluorobenzene	13.14	114	208818	10.000	ppbv	0.00	
56) Chlorobenzene-d5	18.13	117	192391	10.000	ppbv	0.00	
System Monitoring Compounds							
69) 4-Bromofluorobenzene	19.58	95	111935	8.395	ppbv	0.00	
Spiked Amount	10.000	Range	70 - 130	Recovery	=	84.00%	
Target Compounds							
							Qvalue
2) Propene	3.45	41	925	N.D.			
3) Dichlorodifluoromethane	3.49	85	2060	0.096	ppbv		94
4) Chloromethane	3.73	50	200	N.D.			
5) F-114	0.00		0	N.D.			
6) Vinyl chloride	0.00		0	N.D.			
7) 1,3-Butadiene	0.00		0	N.D.			
8) Butane	4.32	43	1173	N.D.			
9) Bromomethane	0.00		0	N.D.			
10) Chloroethane	0.00		0	N.D.			
11) Vinyl bromide	0.00		0	N.D.	d		
12) Ethanol	4.96	45	3080	N.D.			
13) Acrolein	0.00		0	N.D.			
14) Pentane	0.00		0	N.D.			
15) Trichlorofluoromethane	5.80	101	424	N.D.			
16) Acetone	5.55	58	2986	N.D.			
17) 2-Propanol	5.80	45	993	N.D.			
18) 1,1-Dichloroethene	0.00		0	N.D.			
19) trans-1,2-Dichloroethene	8.07	96	166	N.D.			
20) Methylene chloride	6.78	84	9665	1.255	ppbv		93
21) t-Butyl alcohol (TBA)	0.00		0	N.D.			
22) 3-Chloropropene	6.80	41	230	N.D.			
23) CFC-113	0.00		0	N.D.			
24) Carbon disulfide	7.25	76	761	N.D.			
25) Methyl t-butyl ether (...)	0.00		0	N.D.			
26) Vinyl acetate	0.00		0	N.D.			
27) 1,1-Dichloroethane	0.00		0	N.D.			
28] cis-1,2-Dichloroethene	9.62	96	702	0.080	ppbv		83
29) Hexane	10.01	57	1657	N.D.			
30] Chloroform	10.08	83	107	0.001	ppbv		93
31) Ethyl acetate	10.01	43	1420	N.D.			
32) Tetrahydrofuran	0.00		0	N.D.			
33) 2-Butanone (MEK)	0.00		0	N.D.			
34) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d		
35) 1,1,1-Trichloroethane	11.68	97	203	N.D.			
36) Carbon tetrachloride	12.84	117	271	N.D.			
37] Benzene	12.61	78	259	Below Cal			97
38) Cyclohexane	13.14	84	967	N.D.			
40) 1,2-Dichloropropane	0.00		0	N.D.	d		

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

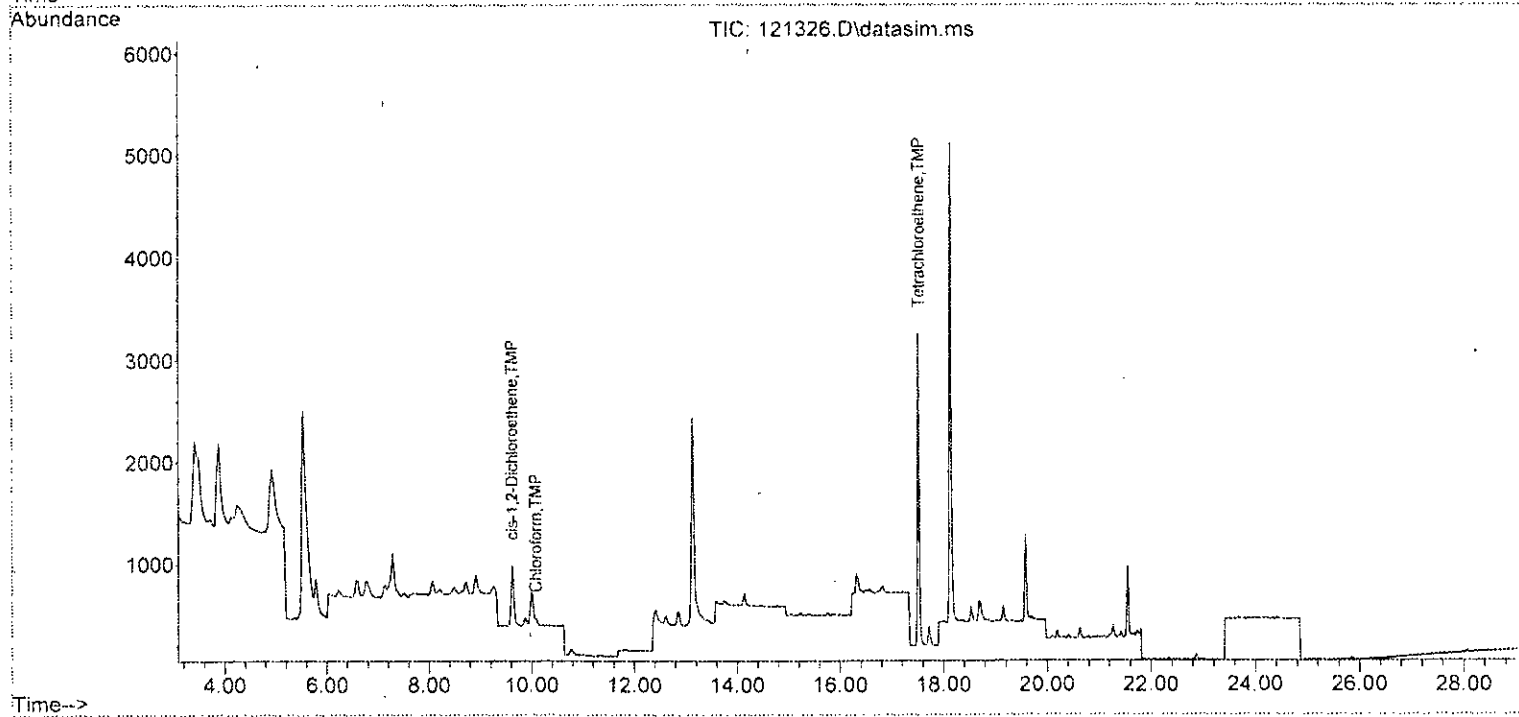
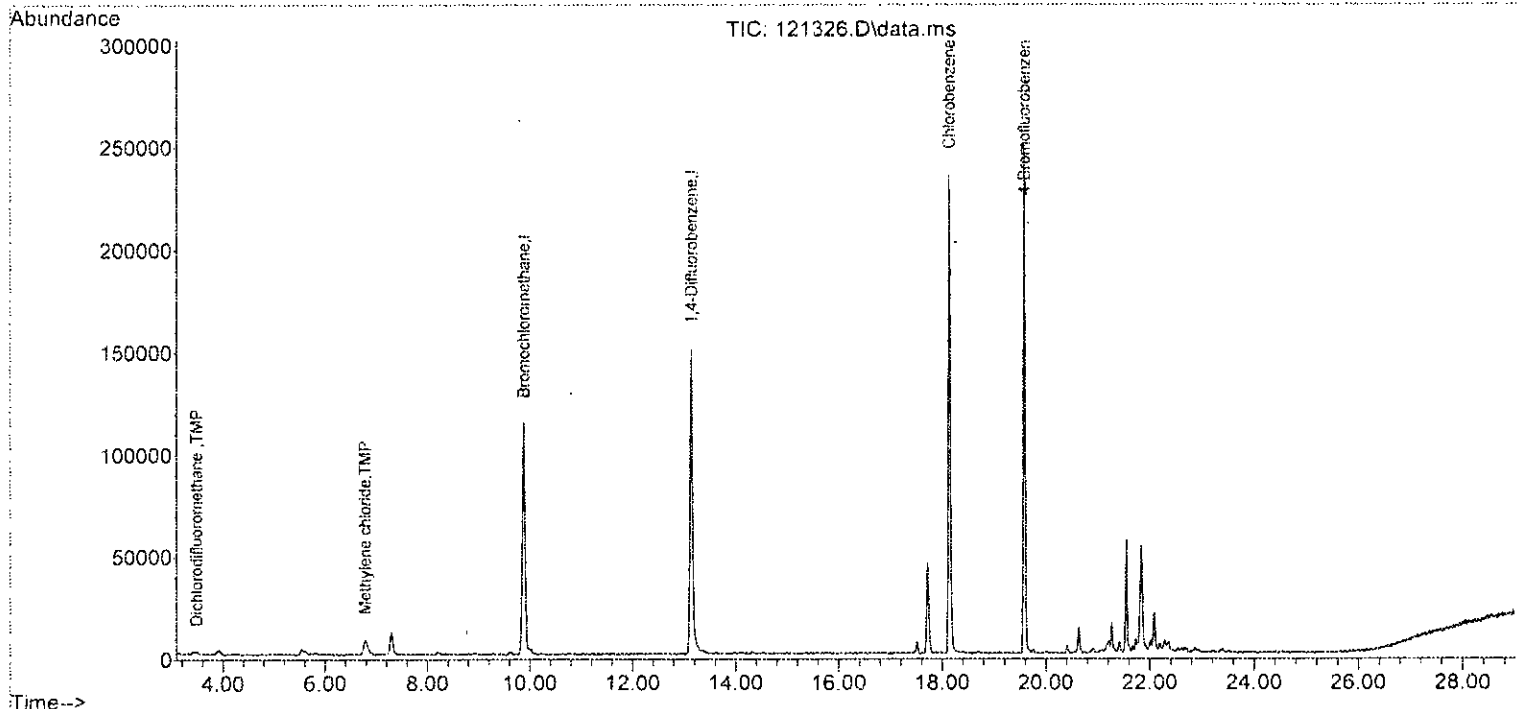
Quant Time: Dec 14 14:56:29 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D.	
43) Methyl methacrylate	0.00		0		N.D.	
44) Heptane	14.38	43	164		N.D.	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	14.14	95	111		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	16.31	92	1251		N.D.	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	0.00		0		N.D.	
53] Tetrachloroethene	17.52	164	1596m	0.156	ppbv	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	18.53	91	264		N.D.	
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
60) Nonane	19.09	43	163		N.D.	
61) Isopropylbenzene	0.00		0		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	20.19	91	142		N.D.	
64) 4-Ethyltoluene	20.27	105	153		N.D.	
65) m,p-Xylene	18.70	106	236		N.D.	
66) o-Xylene	19.15	106	113		N.D.	
67) Styrene	0.00		0		N.D.	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D. d	
71) 1,3,5-Trimethylbenzene	20.27	105	153		N.D.	
72) 1,2,4-Trimethylbenzene	20.81	105	132		N.D.	
73) 1,3-Dichlorobenzene	0.00		0		N.D.	
74) 1,4-Dichlorobenzene	0.00		0		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77] Naphthalene	23.44	128	198	Below Cal	#	1
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121326.D  
 Acq On : 14 Dec 2022 6:42 am  
 Operator : bat  
 Sample : 212012-01 dup 1/5.0  
 Misc : T10  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:29 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

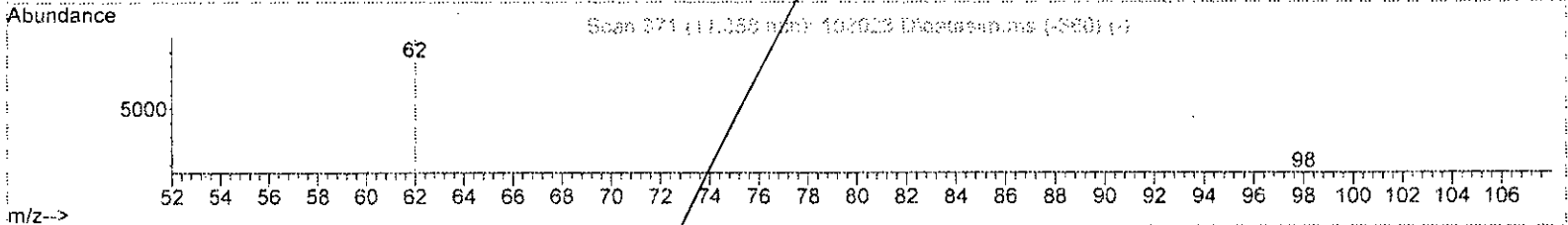
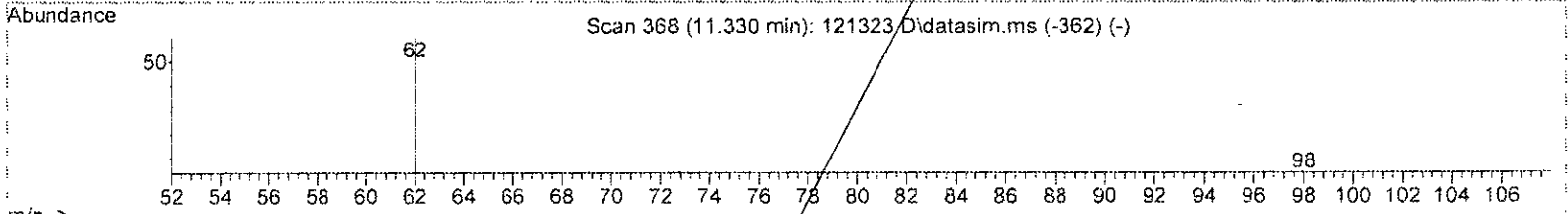
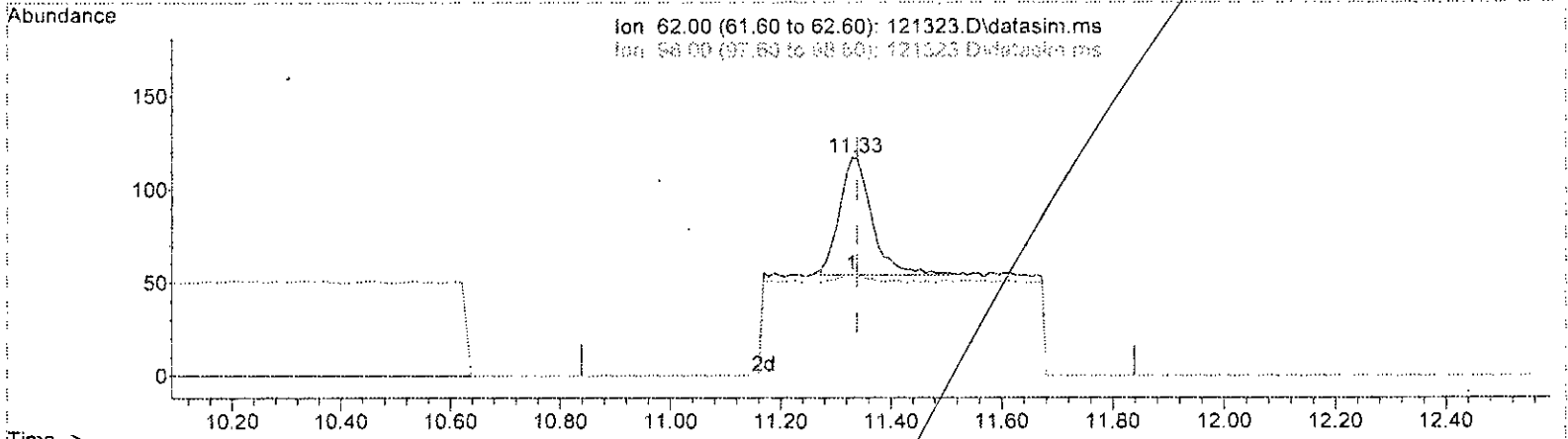


# EPA TO-15 Sample Data

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121323.D  
 Acq On : 14 Dec 2022 4:48 am  
 Operator : bat  
 Sample : 212114-01  
 Misc : T9  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:23 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121323.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.330min (-0.009) 0.015 ppbv

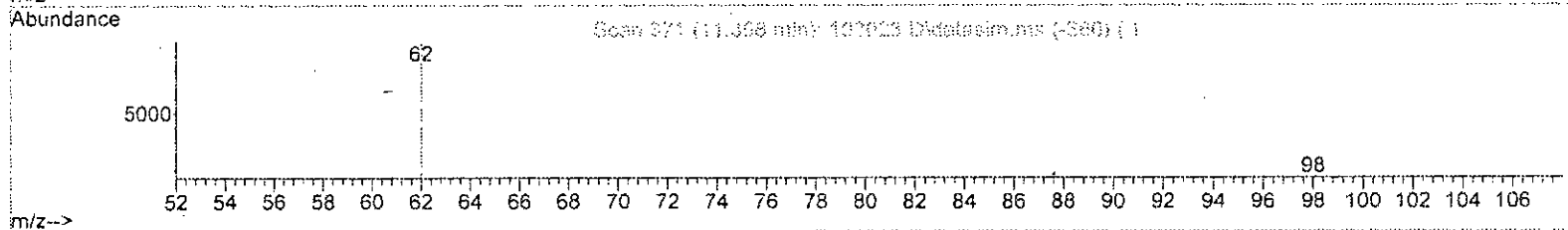
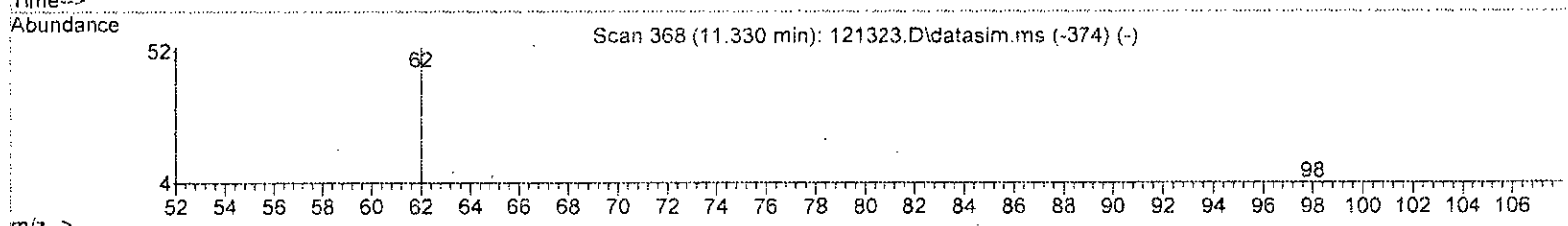
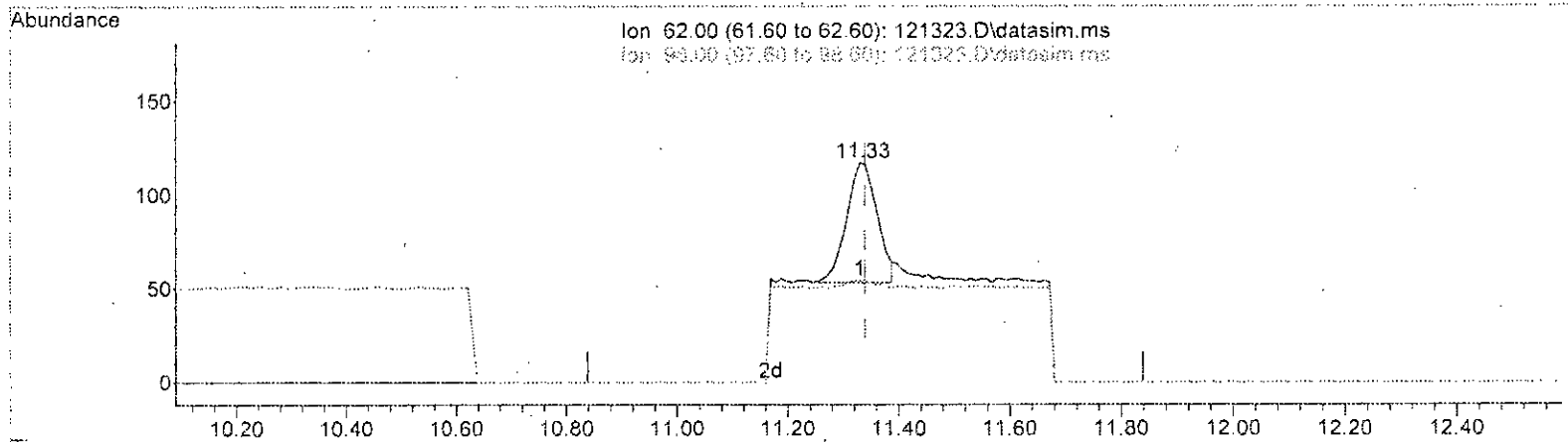
response	256		
Ion	Exp%	Act%	
62.00	100.00	100.00	
98.00	5.30	6.35	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: u/alk*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121323.D  
 Acq On : 14 Dec 2022 4:48 am  
 Operator : bat  
 Sample : 212114-01  
 Misc : T9  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:23 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121323.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.330min (-0.009) 0.014 ppbv m

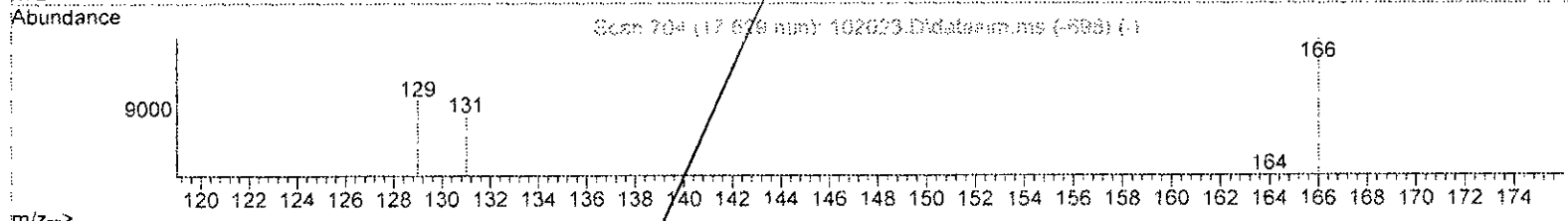
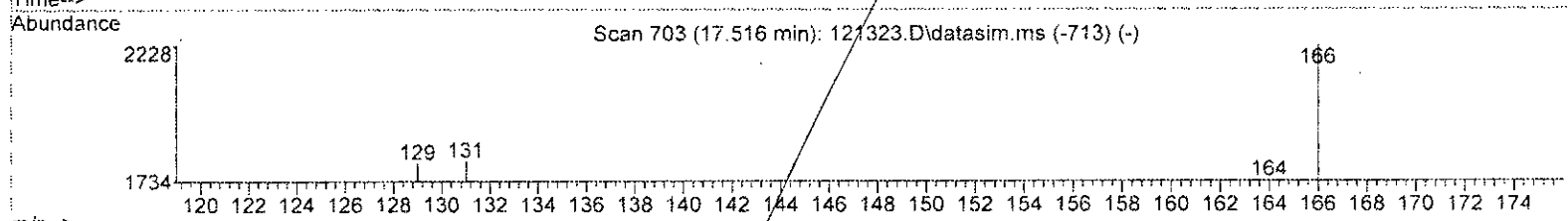
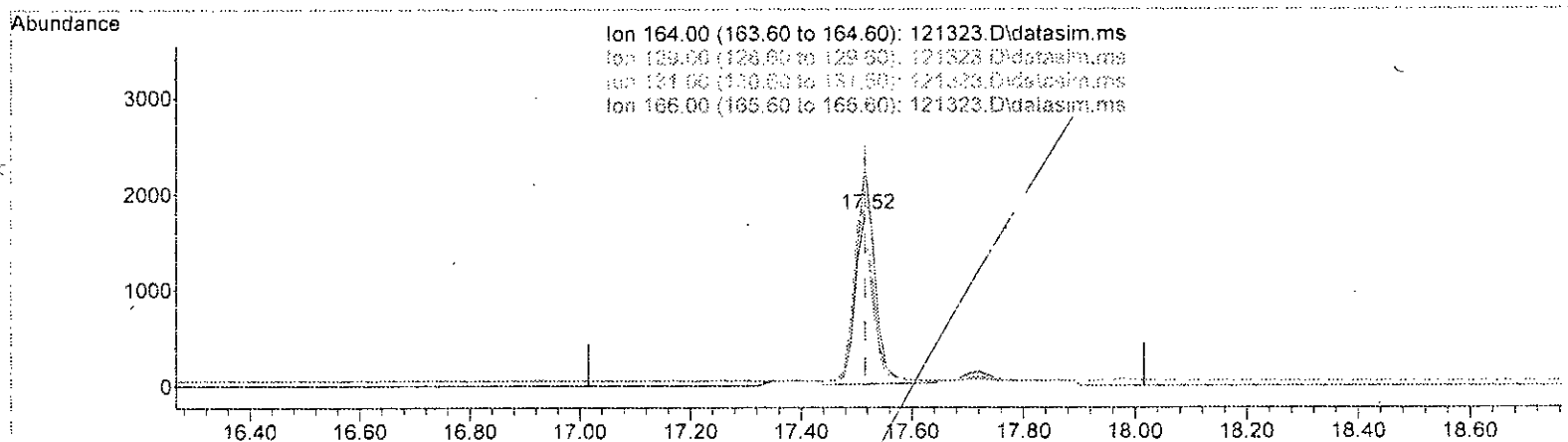
response	245
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 46.15#
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121323.D  
 Acq On : 14 Dec 2022 4:48 am  
 Operator : bat  
 Sample : 212114-01  
 Misc : T9  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:23 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121323.D\data.ms

(53) Tetrachloroethene (TMP)

17.516min (-0.000) 0.447 ppbv

response 4254

Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	103.69
131.00	100.70	104.15
166.00	137.50	128.51

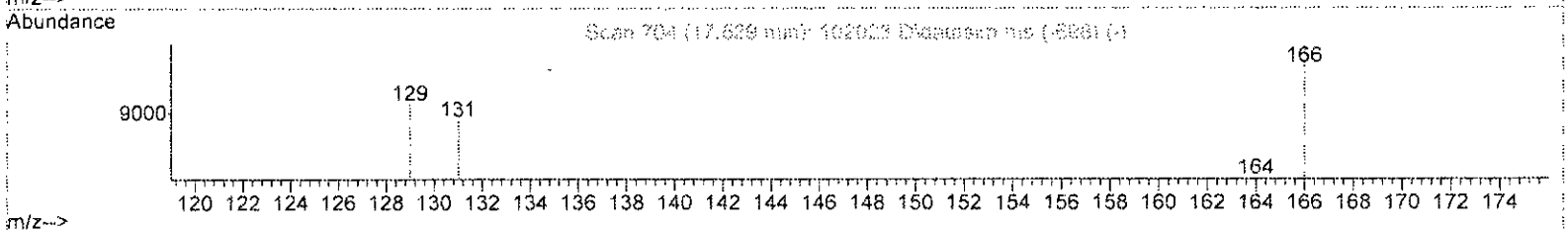
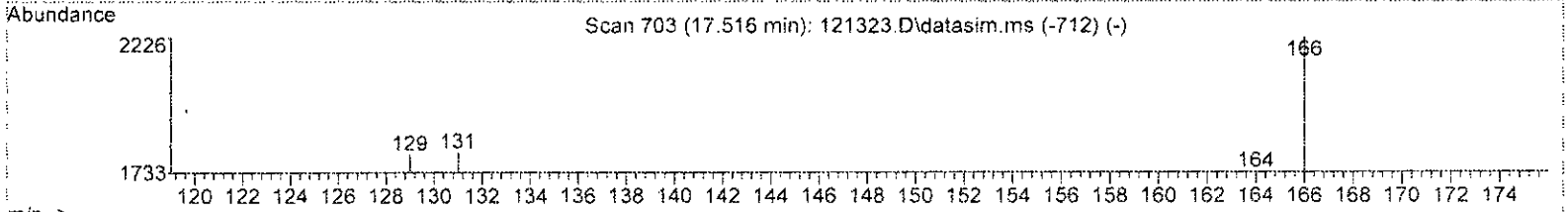
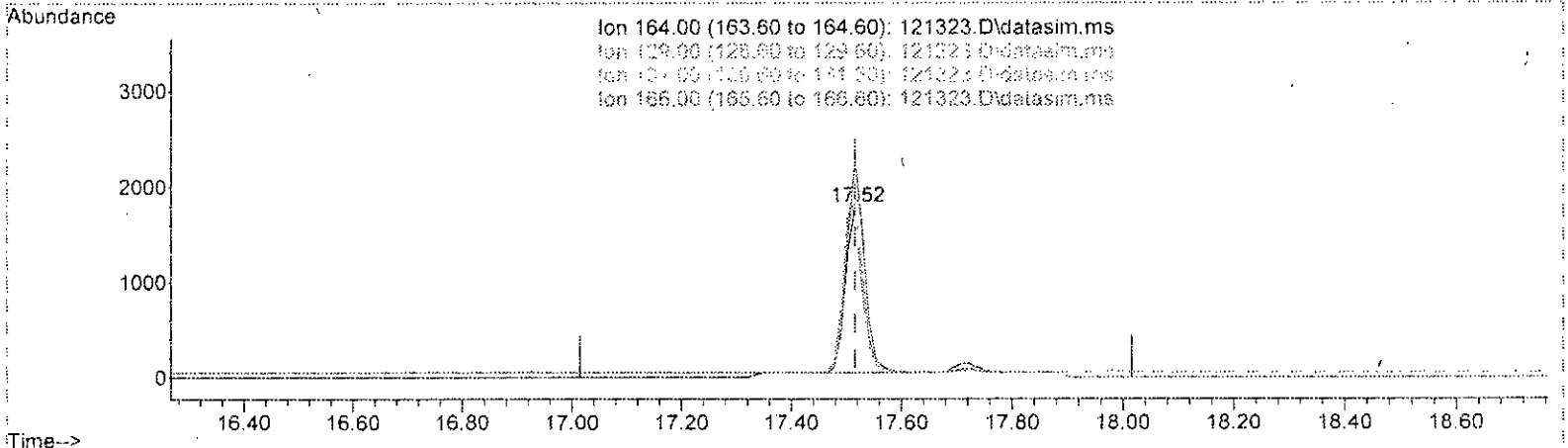
*h  
a/s/h*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121323.D  
 Acq On : 14 Dec 2022 4:48 am  
 Operator : bat  
 Sample : 212114-01  
 Misc : T9  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:23 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121323.D\data.ms

(53) Tetrachloroethene (TMP)

17.516min (-0.000) 0.410 ppbv m

response 3910

Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	103.58
131.00	100.70	104.09
166.00	137.50	127.72

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121323.D  
 Acq On : 14 Dec 2022 4:48 am  
 Operator : bat  
 Sample : 212114-01  
 Misc : T9  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

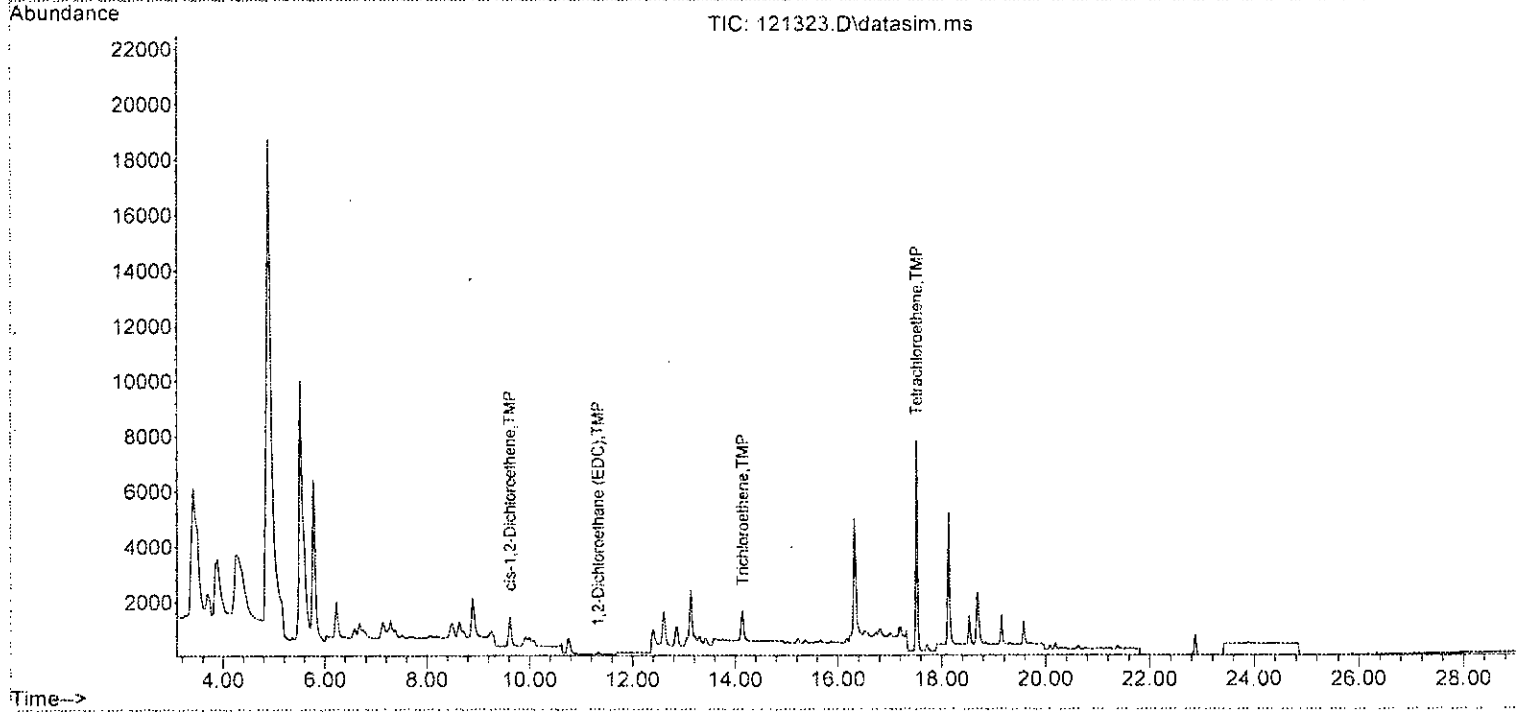
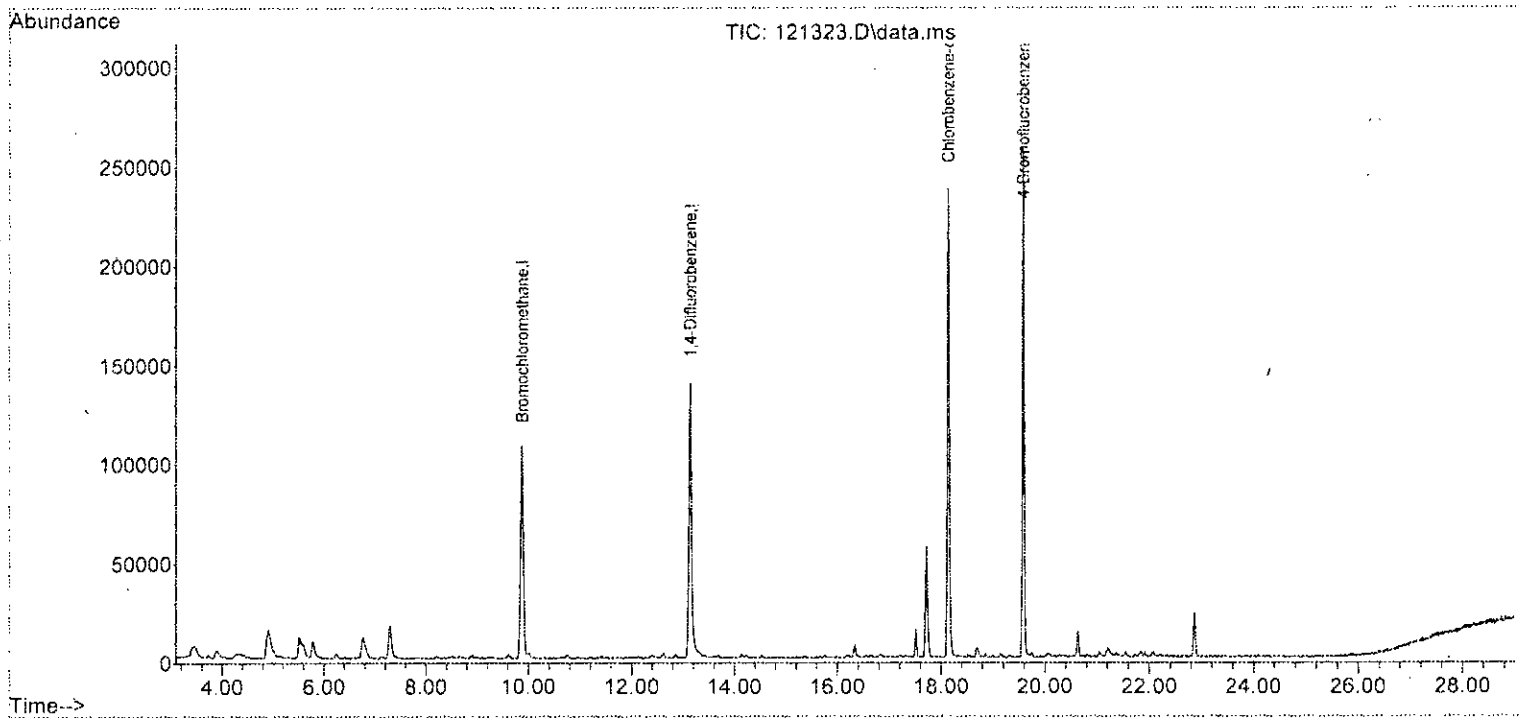
Quant Time: Dec 14 14:56:23 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

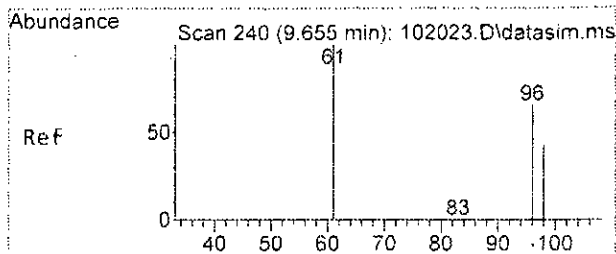
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	52144	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	194483	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	192451	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	115989	8.697	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	87.00%
Target Compounds						
28] cis-1,2-Dichloroethene	9.62	96	1264	0.143	ppbv	93
34] 1,2-Dichloroethane (EDC)	11.33	62	245m	0.014	ppbv	
46] Trichloroethene	14.14	95	1093	0.095	ppbv	93
53] Tetrachloroethene	17.52	164	3910m	0.410	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-13-22\  
Data File : 121323.D  
Acq On : 14 Dec 2022 4:48 am  
Operator : bat  
Sample : 212114-01  
Misc : T9  
ALS Vial : 23 Sample Multiplier: 1  
InstName : GCMS7

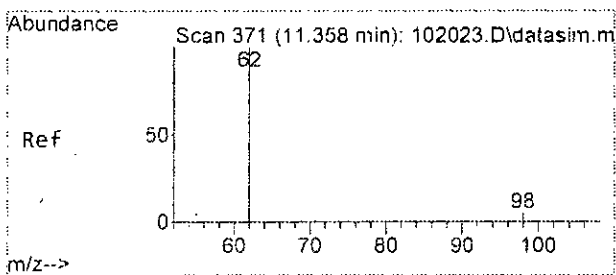
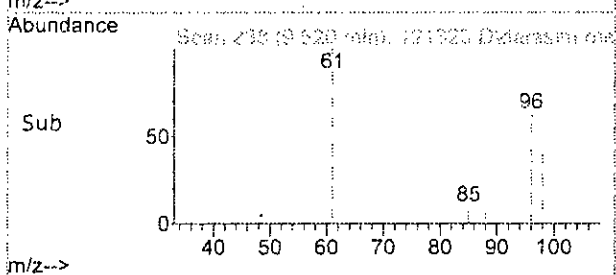
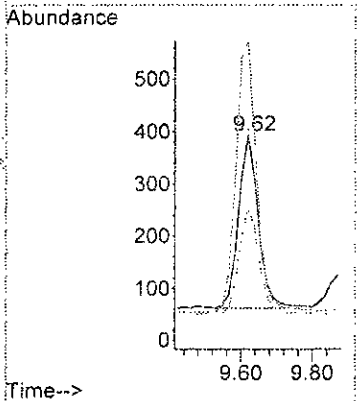
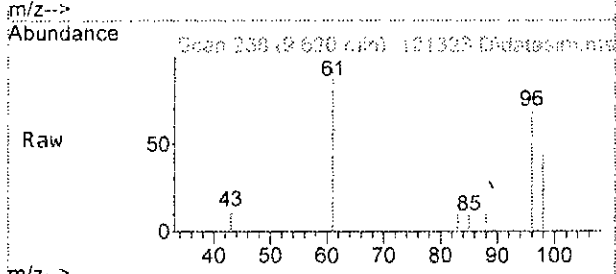
Quant Time: Dec 14 14:56:23 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : TO-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:TO15DC.M





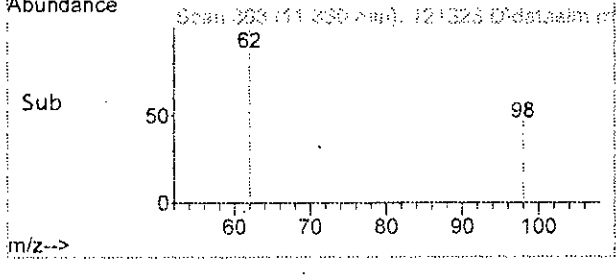
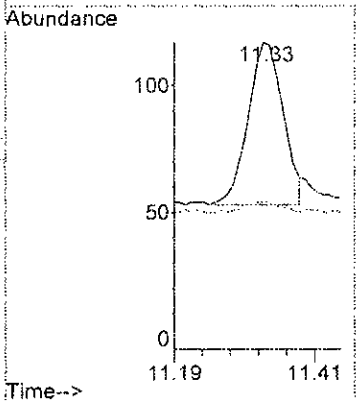
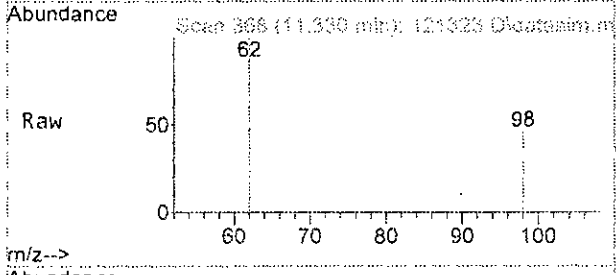
#28  
 cis-1,2-Dichloroethene  
 Concen: 0.143 ppbv  
 RT: 9.62 min Scan# 238  
 Delta R.T. -0.018 min  
 Lab File: 121323.D  
 Acq: 14 Dec 2022 4:48 am

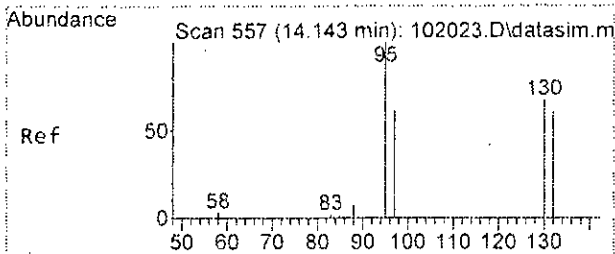
Tgt Ion	Resp	Lower	Upper
96	1264		
61	156.4	116.0	176.0
98	60.9	35.2	95.2



#34  
 1,2-Dichloroethane (EDC)  
 Concen: 0.014 ppbv m  
 RT: 11.33 min Scan# 368  
 Delta R.T. -0.009 min  
 Lab File: 121323.D  
 Acq: 14 Dec 2022 4:48 am

Tgt Ion	Resp	Lower	Upper
62	245		
98	46.2	0.0	35.3#

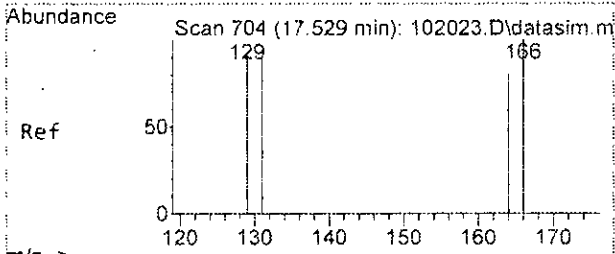
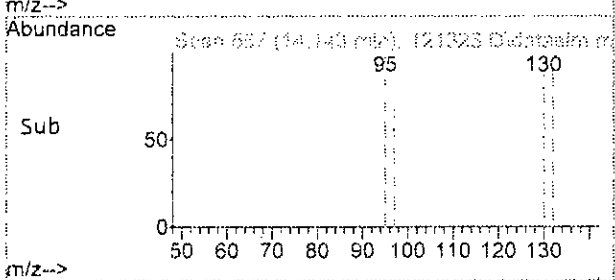
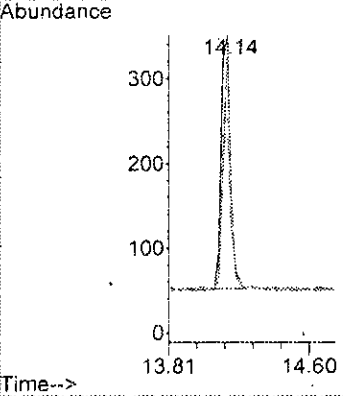
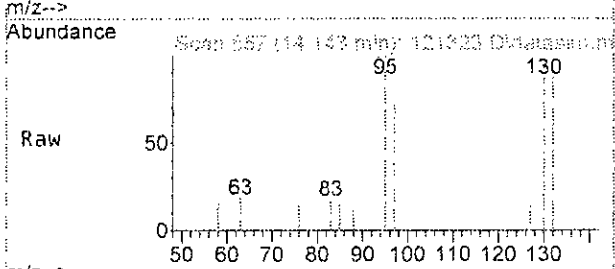




#46  
 Trichloroethene  
 Concen: 0.095 ppbv  
 RT: 14.14 min Scan# 557  
 Delta R.T. -0.000 min  
 Lab File: 121323.D  
 Acq: 14 Dec 2022 4:48 am

Tgt Ion: 95 Resp: 1093

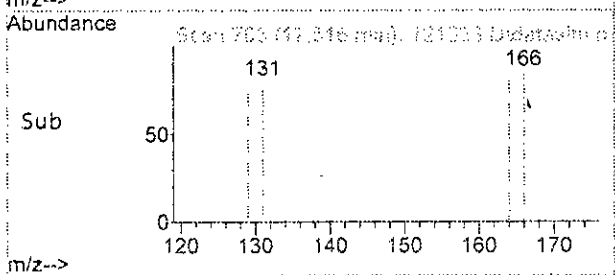
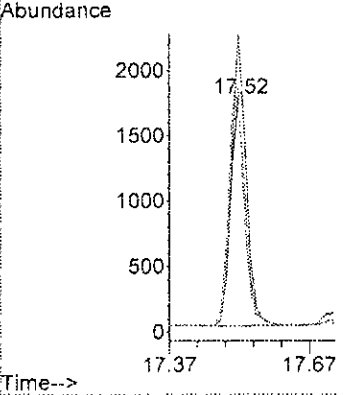
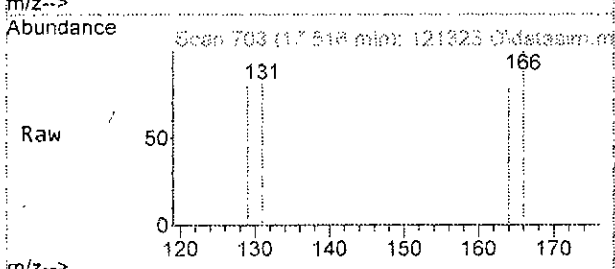
Ion	Ratio	Lower	Upper
95	100		
97	67.9	37.1	97.1
130	93.6	56.1	116.1
132	92.6	54.3	114.3



#53  
 Tetrachloroethene  
 Concen: 0.410 ppbv m  
 RT: 17.52 min Scan# 703  
 Delta R.T. -0.000 min  
 Lab File: 121323.D  
 Acq: 14 Dec 2022 4:48 am

Tgt Ion: 164 Resp: 3910

Ion	Ratio	Lower	Upper
164	100		
129	103.6	63.2	123.2
131	104.1	70.7	130.7
166	127.7	107.5	167.5



Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121323.D  
 Acq On : 14 Dec 2022 4:48 am  
 Operator : bat  
 Sample : 212114-01  
 Misc : T9  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 14 14:56:23 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	52144	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	194483	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	192451	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	115989	8.697	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	87.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0	N.D.	d	
3) Dichlorodifluoromethane	0.00		0	N.D.	d	
4) Chloromethane	0.00		0	N.D.	d	
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) 1,3-Butadiene	0.00		0	N.D.	d	
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	0.00		0	N.D.	d	
13) Acrolein	0.00		0	N.D.	d	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	0.00		0	N.D.	d	
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	0.00		0	N.D.	d	
18) 1,1-Dichloroethene	0.00		0	N.D.		
19) trans-1,2-Dichloroethene	8.07	96	104	N.D.		
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	0.00		0	N.D.		
23) CFC-113	0.00		0	N.D.	d	
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	0.00		0	N.D.		
26) Vinyl acetate	0.00		0	N.D.	d	
27) 1,1-Dichloroethane	0.00		0	N.D.		
28] cis-1,2-Dichloroethene	9.62	96	1264	0.143	ppbv	93
29) Hexane	0.00		0	N.D.	d	
30) Chloroform	0.00		0	N.D.	d	
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	0.00		0	N.D.	d	
33) 2-Butanone (MEK)	0.00		0	N.D.	d	
34] 1,2-Dichloroethane (EDC)	11.33	62	245m	0.014	ppbv	
35) 1,1,1-Trichloroethane	0.00		0	N.D.		
36) Carbon tetrachloride	0.00		0	N.D.	d	
37) Benzene	0.00		0	N.D.	d	
38) Cyclohexane	0.00		0	N.D.	d	
40) 1,2-Dichloropropane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS7\12-13-22\  
 Data File : 121323.D  
 Acq On : 14 Dec 2022 4:48 am  
 Operator : bat  
 Sample : 212114-01  
 Misc : T9  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

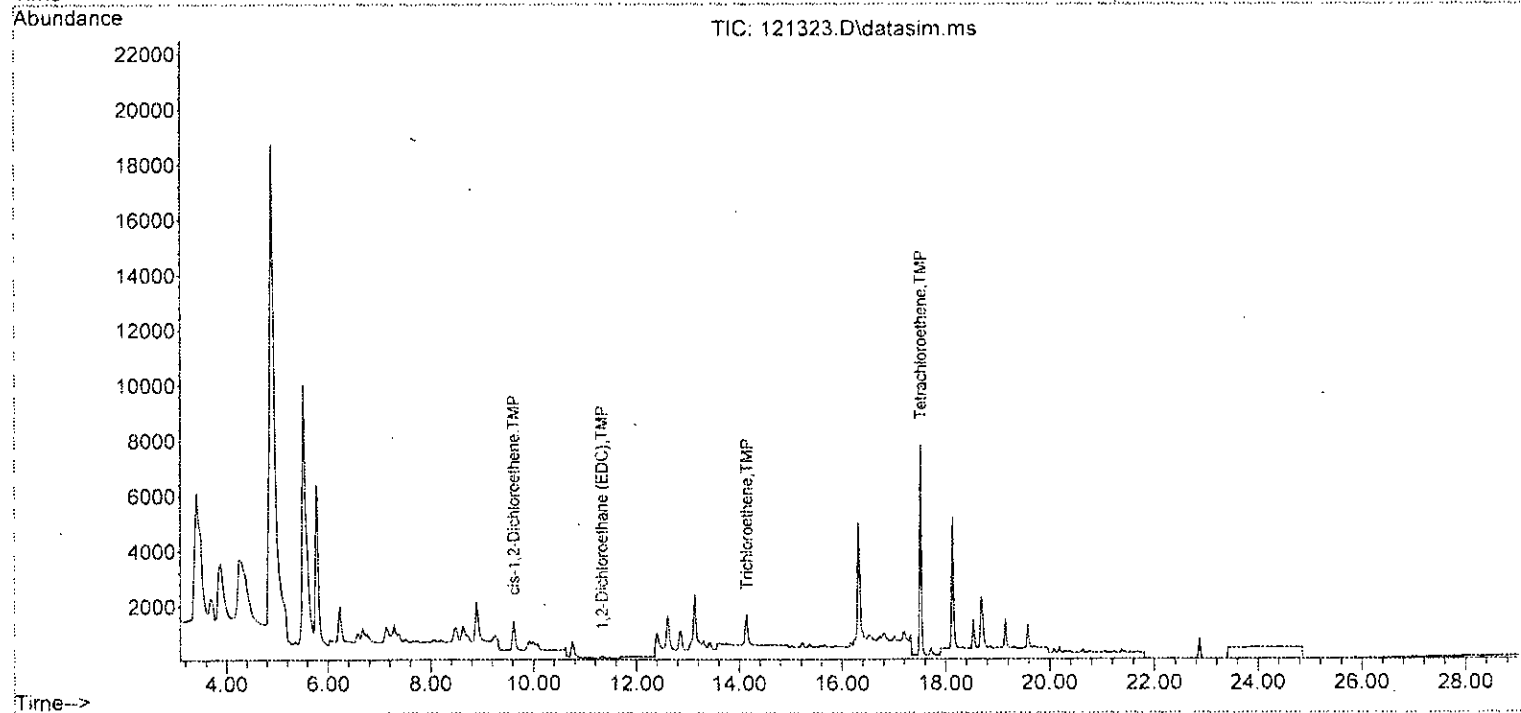
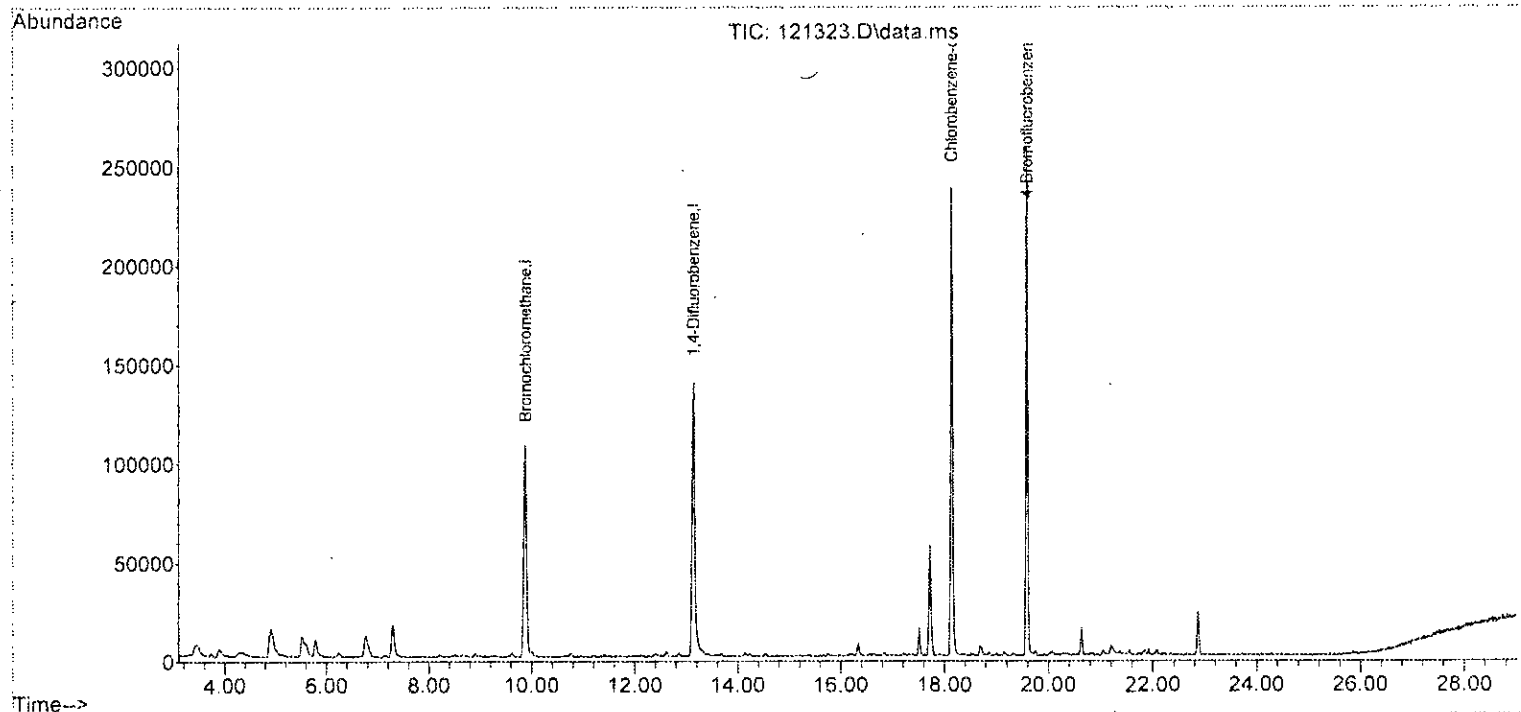
Quant Time: Dec 14 14:56:23 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D. d	
43) Methyl methacrylate	0.00		0		N.D. d	
44) Heptane	0.00		0		N.D. d	
45) Bromodichloromethane	0.00		0		N.D.	
46] Trichloroethene	14.14	95	1093	0.095	ppbv	93
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	0.00		0		N.D. d	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	0.00		0		N.D. d	
53] Tetrachloroethene	17.52	164	3910m	0.410	ppbv	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	0.00		0		N.D. d	
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
60) Nonane	0.00		0		N.D. d	
61) Isopropylbenzene	0.00		0		N.D. d	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D. d	
64) 4-Ethyltoluene	0.00		0		N.D. d	
65) m,p-Xylene	0.00		0		N.D. d	
66) o-Xylene	0.00		0		N.D. d	
67) Styrene	0.00		0		N.D. d	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D. d	
71) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
72) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
73) 1,3-Dichlorobenzene	0.00		0		N.D.	
74) 1,4-Dichlorobenzene	0.00		0		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77) Naphthalene	0.00		0		N.D. d	
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-13-22\  
Data File : 121323.D  
Acq On : 14 Dec 2022 4:48 am  
Operator : bat  
Sample : 212114-01  
Misc : T9  
ALS Vial : 23 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Dec 14 14:56:23 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M





F&B Project 212177

# Chain of Custody, Shipping & Receiving Documents, Sample Condition Checklist

**Chain of Custody Record & Laboratory Analysis Request** 212177

12109/22

Laboratory Number: Friedman and Bruya  
 Date: 12/9/2022  
 Project Name: Carson Cleaners Remedial Investigation  
 Project Number: 212280-01.01  
 Project Manager: Gavin Casson / Jennifer Marsala  
 Phone Number: 206-287-9130  
 Shipment Method: Drop Off

Line	Field Sample ID	Date	Start Time	End Time	Initial Volume	End Volume	Matrix	No. of Containers	Test Parameters		Comments
									VOCs - EPA Method TO-15	Lab ID	
1	CC-SS-01-20121209	12/9/2022	0815	1625	29.0	3.5	Air	1	X	01	SUB-SUB, CAN: 18561, REG: 12
2	CC-SS-02-20121209	12/9/2022	0830	1515	~35.0	28.5	Air	1	X	02	SUB-SUB, CAN: 37214, REG ID: 18
3	CC-SS-03-20121209	12/9/2022	0800	1640	29.0	19.0	Air	1	X	03	SUB-SUB, CAN: 23227, REG: 03
4	CC-IA-01-20121209	12/9/2022	0815	1625	38.0	5.0	Air	1	X	04	FIND ONE AIR, CAN: 40308, REG: 03851
5	CC-IA-02-20121209	12/9/2022	0830	1630	29.0	5.0	Air	1	X	05	FIND ONE AIR, CAN: 20545, REG: 05182
6	CC-IA-03-20121209	12/9/2022					Air	1	X		
7	CC-IA-04-20121209	12/9/2022	0800	1640	28.5	3.5	Air	1	X	06	FIND ONE AIR, CAN: 39224, REG: 07845
8	CC-AA-01-20121209	12/9/2022	0720	1615	29.0	2.5	Air	1	X	07	AIRBENT AIR, REG ID: 05350, CAN ID: 21484
9											
10											
11											
12											
13											
14											
15											

Notes: See QAPP for analytes and methods

CC-SS-02 AND CC-SS-04 ~~ISSUES~~ AND ISSUES w/ WATSON.

Relinquished By: Stephan Smith Company: Anchor OEA LLC  
 Signature/Printed Name: Stephan Smith Date/Time: 12-9-22/1730

Received By: [Signature] Company: ESB  
 Signature/Printed Name: [Signature] Date/Time: 12/09/22/17:30

Relinquished By: \_\_\_\_\_ Company: \_\_\_\_\_  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Company: \_\_\_\_\_  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples received at 19 °C

ANCHOR OEA  
 TARA ARSANG  
 STANWIND

NP

Soil Gas Manifolds/Tubing  
Billing Sheet

Company Anchor

Client (Person requesting supplies) Stephen Strehl

Address (if new client) \_\_\_\_\_

Client's project/PO# (if known) Carson Cleaners

- 3 x TO15 Soil Gas Manifolds (\$40 each)
- \_\_\_\_\_ ft. - FEP Tubing (\$4/foot)
- \_\_\_\_\_ x Purge Can (\$30/each)
- \_\_\_\_\_ x Unused Can Restocking (\$75/each)
- \_\_\_\_\_ x Tedlar bags (\$13/each)
- \_\_\_\_\_ boxes - FedEx Ground (\$25/box)
- \_\_\_\_\_ boxes - FedEx Express 2<sup>nd</sup> day air (\$50/box)
- \_\_\_\_\_ boxes - FedEx Express next day air (\$100/box)

Date 11/12/2

Initials EMB

Put in Mike's box after filling out

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 212177 CLIENT Anchor INITIALS/ AP  
DATE: 12/09/22

If custody seals are present on cooler, are they intact?  NA  YES  NO

Cooler/Sample temperature 19 °C

Were samples received on ice/cold packs?  YES  NO

How did samples arrive?  Over the Counter  
 Picked up by F&BI  
 FedEx/UPS/GSO

Number of days samples have been sitting prior to receipt at laboratory 0 days

Is there a Chain-of-Custody\* (COC)?  YES  NO  
\*or other representative documents, letters, and/or shipping memos

Are the samples clearly identified? (explain "no" answer below)  YES  NO

Is the following information provided on the COC\* ? (explain "no" answer below)

Sample ID's	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	# of Containers	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Date Sampled	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Relinquished	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Time Sampled	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Requested analysis	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below)  YES  NO

Were appropriate sample containers used?  YES  NO  Unknown

If custody seals are present on samples, are they intact?  NA  YES  NO

Are samples requiring no headspace, headspace free?  NA  YES  NO

Air Samples: Were any additional canisters received?  NA  YES  NO

If Yes, number of unused 1L canisters \_\_\_\_\_  
number of unused 6L canisters \_\_\_\_\_

Explain "no" items from above (use the back if needed)  
CC-FA-03 valve not closed. Cap on tight.

# CANISTER ORDER/TRACKING FORM

**PREPARE ON: DATE** 12/7 **READY TIME:** 4 pm

**Company** Anchor **Contact** Stephen Strick

**Project Name** Carson Cleaners **Sampling Date:** \_\_\_\_\_  Match w/ coolers

**Analytes:**  cVOCs  BTEXN  Full List  APH  Unknown  Other \_\_\_\_\_

**Ship:**  Sameday  Ground  2 Day  Overnight  F&B \_\_\_\_\_  Pick Up \_\_\_\_\_

**Notes/Delivery Address:** \_\_\_\_\_

## CANISTERS/FLOW CONTROLLERS REQUESTED

#	Size/Controller	Certification
_____	<input type="checkbox"/> 1L SG	<input type="checkbox"/> Ind <input type="checkbox"/> Batch <input type="checkbox"/> 150 cc/min (red) <input type="checkbox"/> 200 cc/min (yellow)
<u>3</u>	<input checked="" type="checkbox"/> 6L SG	<input checked="" type="checkbox"/> Ind <input type="checkbox"/> Batch <input type="checkbox"/> OK to sub for 1L
<u>4</u>	<input checked="" type="checkbox"/> 6L 8hr IA	<input checked="" type="checkbox"/> Ind <input type="checkbox"/> Batch
_____	<input type="checkbox"/> 6L 24hr IA	<input type="checkbox"/> Ind <input type="checkbox"/> Batch
_____	<input type="checkbox"/> 6L Purge Can	
_____	<input type="checkbox"/> 1L SG N2 @ 30 PSI   <input type="checkbox"/> 6L SG N2 @ 30 PSI	

(SG = Soil Gas; IA = Indoor Air)

Soil Gas Manifolds:  Y  N How many? 3 (\$40 each)

Additional Tubing:  Y  N How long? \_\_\_\_\_ ft (\$4 per foot)

Tedlar Bags:  Y  N How many? \_\_\_\_\_ (\$13 each)

Additional Ferrules:  Y  N How many? \_\_\_\_\_ (No fee)

Other Item: \_\_\_\_\_ How many? \_\_\_\_\_ (\$\_\_\_\_\_ each)

## CHECK OUT

- Time can/controllers assembled 3:00  Vacuum Check >28" Hg, reset to 0"
- 0" on gauge after 30 min OK
- Entered Can Controller IDs into Database
- Nuts/Ferrules Included on Ring
- Put Canister in Box
- Included in Box:  COC  ID Tags
- If requested:  Manifolds  Extra Tubing  Tedlar Bags  Addtl Ferrules
- Manifold Billing Sheet to Mike's Box

Canisters (# Returned/Date)	Flow Controllers (# Returned/Date)
6L <u>7</u> <sup>Emb 12/12</sup> 1L _____   IA <u>4</u> SG <u>3</u> <sup>12/12</sup>   <input checked="" type="checkbox"/> OK <input type="checkbox"/> Damage _____	
6L _____ 1L _____   IA _____ SG _____   <input type="checkbox"/> OK <input type="checkbox"/> Damage _____	

# Laboratory Worksheets

## TO-15 EXTRACTION WORKSHEET (AIR)

HT \_\_\_\_\_

Project #: 212177  
 Client: ACQ  
 QC Batch ID: 02-2970  
 Samples checked against COC R

Date Received: 12/9/22  
 Date Extracted: 12/16/22  
 Date Analyzed: \_\_\_\_\_  
 GCMS  7  8, Seq. Date \_\_\_\_\_

<b>Sample Type:</b> <input checked="" type="checkbox"/> Soil Gas <input type="checkbox"/> Indoor Air <input type="checkbox"/> Other _____	<b>Requested Analytes:</b> <input type="checkbox"/> TO-15 Full List (sDF=3.3) <input type="checkbox"/> BTEX (sDF=3.3) <input type="checkbox"/> cVOCs (sDF=10) <input type="checkbox"/> Naphthalene (sDF=3.3) <input type="checkbox"/> APH (sDF=39) <input type="checkbox"/> EDB,EDC,Hex,MTBE (sDF=10) <input type="checkbox"/> _____ <input checked="" type="checkbox"/> Other <u>PCE+Daughters</u>	<b>Reporting Units:</b> <input checked="" type="checkbox"/> µg/m <sup>3</sup> <input type="checkbox"/> Other _____ <input type="checkbox"/> ve's not Acceptable <input type="checkbox"/> Dilutions Not Acceptable for Non-Detects <input checked="" type="checkbox"/> Screen Samples First
Due Date: <u>12/26</u> sDF = Acceptable Dilution Factor For Soil Gas iDF = Acceptable Dilution Factor For Indoor Air		

Sample ID	Canister ID	Initial Vacuum (Pi)	Final Vacuum (Pf)	Initial Dilution Factor	Volume Injected (cc)	Final Dilution Factor	Observations
01	18561	12.98	19.92	1.53	75	1/5.0	
02	37214	1.18	19.91	<del>1.4</del> <sup>1.9</sup>	75	1/5.6	
03	23227	5.78	19.96	<del>3.45</del> <sup>4.14</sup>	75	1/11	
B <sup>13</sup> <del>12/16/22</del> _____ M 12/16							

Initials \_\_\_\_\_

	✓	Volume	Conc. (ppm)	Compound(s)	Lot #	Initials	Date
Solvent		NA	NA	NA			
Other							
Internal Standard(s)/ Surrogate(s)	✓	50 cc	50 ppbv	TO-15 IS/Surr Mix	68-352	B	12/16
Other							

Project Leader Initials: ML      NOTES: -02 & -03 may have water  
Screen on 12/14 B&T

Calculated by R 12/22/22      Reviewed by YA 12/27/22



**TO-15 EXTRACTION WORKSHEET (AIR)**

HT \_\_\_\_\_

Project #: 212177  
 Client: ACQ  
 QC Batch ID: 02-2970  
 Samples checked against COC R

Date Received: 12/16/22  
 Date Extracted: 12/16/22  
 Date Analyzed: \_\_\_\_\_  
 GCMS  8, Seq. Date \_\_\_\_\_

<b>Sample Type:</b> <input type="checkbox"/> Soil Gas <input type="checkbox"/> Indoor Air <input type="checkbox"/> Other _____  Due Date: <u>12/26</u>	<b>Requested Analytes:</b> <input type="checkbox"/> TO-15 Full List (sDF=3.3) <input type="checkbox"/> cVOCs (sDF=10) <input type="checkbox"/> APH (sDF=39) <input type="checkbox"/> _____ sDF = Acceptable Dilution Factor For Soil Gas iDF = Acceptable Dilution Factor For Indoor Air	<input type="checkbox"/> BTEX (sDF=33) <input type="checkbox"/> Naphthalene (sDF=3.3) <input type="checkbox"/> EDB,EDC,Hex,MTBE (sDF=10) <input checked="" type="checkbox"/> Other <u>PCE+Daughters</u>	<b>Reporting Units:</b> <input checked="" type="checkbox"/> µg/m3 <input type="checkbox"/> Other _____ <input type="checkbox"/> ve's not Acceptable <input type="checkbox"/> Dilutions Not Acceptable for Non-Detects <input type="checkbox"/> Screen Samples First
		_____	

Sample ID	Canister ID	Initial Vacuum (Pi)	Final Vacuum (Pf)	Initial Dilution Factor	Volume Injected (cc)	Final Dilution Factor	Observations
04	40708				250	F.5	
05	20545				1	1	
06	37224				1	1	
07	21484						
	B 12/16/22						

Initials \_\_\_\_\_

	✓	Volume	Conc. (ppm)	Compound(s)	Lot #	Initials	Date
Solvent		NA	NA	NA			
Other							
Internal Standard(s)/ Surrogate(s)	✓	50 cc	50 ppbv	TO-15 IS/Surr Mix	68-75A	R	12/16
Other							

Project Leader Initials: AK NOTES: \_\_\_\_\_  
 Calculated by K 12/22/22 Reviewed by YA 12/27/22

# BATCH ORGANIC EXTRACTION WORKSHEET

Date Extracted: 12/16/22 14:50 Technician: RJ

QA Batch: **02-2970**

Matrix	Solvent	Analysis	
<input type="checkbox"/> Soil	<input type="checkbox"/> Methylene Chloride	<input type="checkbox"/> Diesel	<input type="checkbox"/> 8270 SIM
<input type="checkbox"/> Water	<input type="checkbox"/> Acetone	<input type="checkbox"/> Gas/BTEX	<input type="checkbox"/> 8270
<input type="checkbox"/> Product	<input type="checkbox"/> Methanol	<input type="checkbox"/> HCID	<input type="checkbox"/> 8260
<input type="checkbox"/> Wipe	<input type="checkbox"/> Hexane		<input type="checkbox"/> PCB
<input checked="" type="checkbox"/> Other <u>Air</u>	<input type="checkbox"/> Other _____		<input type="checkbox"/> Organic Lead
			<input type="checkbox"/> Methamphetamine
			<input type="checkbox"/> Other <u>TO15/APH/GX</u>

Clean Up:  Florsil (FL)  Copper (Cu)  
 Silica  Filtration  H<sub>2</sub>SO<sub>4</sub>  Other

Sample ID	pH Waters only	Sample Weight/Volume	Extraction Solvent Volume	Final Volume	Dilutions		Clean Up (Circle)			Observations
					Amt. Extract	Amt. Solvent	Silica	FL Filter	Cu H <sub>2</sub> SO <sub>4</sub>	
<u>MB</u>		<u>250</u>								
<u>LCS(TO15)</u>		<u>25</u>								
<u>LCS(APH)</u>		<u>150</u>								
<u>LCS(GX)</u>		<u>20</u>								
<u>212172-02</u>		<u>75</u>								
<u>212172-02 dup</u>		<u>75</u>								
<u>R</u>	<u>12/16/22</u>									

Initials

### Samples in Batch

<u>212177-01</u>	<u>212177-05</u>	<u>212175-02</u>	<u>212175-06</u>	
<u>-02</u>	<u>-06</u>	<u>-03</u>		
<u>-03</u>	<u>-07</u>	<u>-04</u>		
<u>-04</u>	<u>212175-01</u>	<u>-05</u>		

Date/Initials

Matrix Spikes:	<u>25cc</u> # of <u>25ppbv</u> ppm of <u>TO15 ccv/LCS</u> Amount Concentration Analytes and Solvent	Lot # <u>68-40A</u>	Date/Initials <u>12/16/22 RJ</u>
Matrix Spikes:	<u>150cc</u> # of <u>112-5ug/L</u> ppm of <u>APH LCS</u> Amount Concentration Analytes and Solvent	Lot # <u>68-6B</u>	
MS Surrogates:	<u>20cc</u> # of <u>1.000ppbv</u> ppm of <u>GX ccv/LCS</u> Amount Concentration Analytes and Solvent	Lot # <u>68-30B</u>	
Internal Standards:	<u>50cc</u> # of <u>50 ppbv</u> ppm of <u>TO15 IS/SURK/BFB</u> Amount Concentration Analytes and Solvent	Lot # <u>68-35A</u>	

Notes:

**EPA TO-15**  
**MDLs**

**Reported MDL Data and Calculations**

Converted from Reported Air MDLs ppb

Analysis: TO-15  
 Matrix: Air  
 Instrument ID: GCMS #7  
 Reporting Units: ug/m3

Standard(s) spiked:  
 Volume spiked:  
 Date(s) Extracted: 3/22/2021, 03/30/21,  
 Date(s) Analyzed: 3/24/2021, 03/30/21,  
 Date Calculated: 3/24/21, 04/01/21, 01/21/21  
 Calculation Analyst: BAT, AS

Analyte	(StdDev*2.998) MDL	(2*MDL) PQL	(5*MDL) PQL	Std Dev	Mean	Spike Level	% Rec.
Propene	0.4304	0.8608	2.1520	0.1436	0.2838	0.1721	165
Dichlorodifluoromethane	0.2791	0.5581	1.3953	0.0931	0.5316	0.4945	108
Chloromethane	0.0643	0.1287	0.3217	0.0215	0.2424	0.2065	117
F-114	0.1664	0.3329	0.8322	0.0555	0.7113	0.6991	102
Vinyl chloride	0.0242	0.0484	0.1211	0.0081	0.0572	0.0511	112
1,3-Butadiene	0.0239	0.0478	0.1195	0.0080	0.0512	0.0442	116
Butane	2.1383	4.2766	10.6914	0.7132	4.7542	4.7542	100
Bromomethane	3.8203	7.6405	19.1014	1.2743	8.9606	7.7661	115
Chloroethane	0.0776	0.1552	0.3881	0.0259	0.2599	0.2638	99
Vinyl Bromide	0.1004	0.2007	0.5018	0.0335	0.3921	0.4375	90
Ethanol	4.2256	8.4511	21.1278	1.4095	4.3394	3.7685	115
Acrolein	0.0494	0.0987	0.2468	0.0165	0.1166	0.1146	102
Pentane	3.1981	6.3962	15.9904	1.0667	5.4183	5.9018	92
Trichlorofluoromethane	0.1954	0.3908	0.9770	0.0652	0.5899	0.5618	105
Acetone	1.8530	3.7061	9.2652	0.6181	5.0716	4.7509	107
2-Propanol	2.0247	4.0494	10.1235	0.6754	4.7622	4.9162	97
1,1-Dichloroethene	0.0568	0.1136	0.2840	0.0189	0.1056	0.0793	133
trans-1,2-Dichloroethene	0.0347	0.0693	0.1733	0.0116	0.0902	0.0793	114
Methylene chloride	3.1799	6.3599	15.8997	1.0607	7.5608	6.9472	109
t-Butyl alcohol (TBA)	3.2671	6.5343	16.3357	1.0898	5.9940	6.0630	99
3-Chloropropene	2.4590	4.9180	12.2951	0.8202	6.1177	6.2601	98
CFC-113	0.3043	0.6085	1.5213	0.1015	0.7606	0.7664	99
Carbon disulfide	3.6241	7.2482	18.1206	1.2088	6.4956	6.2282	104
Methyl t-butyl ether (...)	3.7340	7.4680	18.6700	1.2455	6.8231	7.2106	95
Vinyl acetate	3.5615	7.1230	17.8075	1.1880	6.4933	7.0421	92
1,1-Dichloroethane	0.0219	0.0439	0.1097	0.0073	0.0885	0.0809	109
cis-1,2-Dichloroethene	0.0362	0.0724	0.1809	0.0121	0.0877	0.0793	111
Hexane	3.3258	6.6517	16.6292	1.1094	6.4027	7.0495	91
Chloroform	0.0366	0.0733	0.1832	0.0122	0.1056	0.0977	108
Ethyl acetate	3.2257	6.4514	16.1285	1.0759	7.4096	7.2074	103
Tetrahydrofuran	0.1553	0.3106	0.7764	0.0518	0.2739	0.2949	93
2-Butanone (MEK)	3.0782	6.1565	15.3912	1.0268	5.6921	5.8986	97
1,2-Dichloroethane (EDC)	0.0331	0.0661	0.1654	0.0110	0.0870	0.0809	108
1,1,1-Trichloroethane	0.0417	0.0834	0.2085	0.0139	0.1214	0.1091	111
Carbon tetrachloride	0.0659	0.1318	0.3296	0.0220	0.1431	0.1258	114
Benzene	0.0289	0.0579	0.1447	0.0097	0.0747	0.0639	117
Cyclohexane	3.1077	6.2153	15.5383	1.0366	6.3955	6.8843	93
1,2-Dichloropropane	0.0804	0.1609	0.4022	0.0268	0.4829	0.4621	105
1,4-Dioxane	0.0795	0.1590	0.3974	0.0265	0.3383	0.3604	94
2,2,4-Trimethylpentane	2.6817	5.3634	13.4086	0.8945	9.1600	9.3440	98
Methyl Methacrylate	2.5467	5.0933	12.7334	0.8495	8.6679	8.1898	106
Heptane	2.0853	4.1706	10.4265	0.6956	8.1054	8.1971	99
Bromodichloromethane	0.0363	0.0726	0.1816	0.0121	0.1550	0.1340	116
Trichloroethene	0.0515	0.1030	0.2574	0.0172	0.1223	0.1075	114
cis-1,3-Dichloropropene	0.2049	0.4097	1.0244	0.0683	0.5180	0.4539	114
4-Methyl-2-pentanone	2.2479	4.4958	11.2395	0.7498	8.5541	8.1930	104
trans-1,3-Dichloropropene	0.0619	0.1238	0.3095	0.0206	0.4726	0.4539	104
Toluene	0.0794	0.1589	0.3972	0.0265	0.3825	0.3769	102
1,1,2-Trichloroethane	0.0287	0.0573	0.1433	0.0096	0.1214	0.1091	111
2-Hexanone	2.1976	4.3952	10.9880	0.7330	8.5259	8.1930	104
Tetrachloroethene	0.1446	0.2891	0.7229	0.0482	0.7910	0.6782	117
Dibromochloromethane	0.0528	0.1055	0.2638	0.0176	0.1991	0.1704	117
1,2-Dibromoethane (EDB)	0.0519	0.1037	0.2594	0.0173	0.1671	0.1537	109
Chlorobenzene	0.1180	0.2361	0.5902	0.0394	0.4627	0.4604	101
Ethylbenzene	0.1285	0.2570	0.6425	0.0429	0.3582	0.4342	83
1,1,2,2-Tetrachloroethane	0.0479	0.0957	0.2394	0.0160	0.1485	0.1373	108
Nonane	3.6205	7.2410	18.1025	1.2076	9.6995	10.4916	92
Isopropylbenzene	5.2598	10.5196	26.2991	1.7544	10.3796	9.8315	106
2-Chlorotoluene	4.8967	9.7934	24.4836	1.6333	10.6760	10.3550	103
Propylbenzene	4.3113	8.6226	21.5564	1.4381	9.8432	9.8315	100
4-Ethyltoluene	4.5322	9.0645	22.6612	1.5118	9.3866	9.8315	95
m,p-Xylene	0.2558	0.5115	1.2788	0.0853	0.6969	0.8685	80
o-Xylene	0.1536	0.3073	0.7682	0.0512	0.3479	0.4342	80
Styrene	0.1516	0.3033	0.7582	0.0506	0.3328	0.4260	78
Bromoform	0.5132	1.0265	2.5661	0.1712	0.9768	1.0337	95
Benzyl chloride	0.0310	0.0619	0.1549	0.0103	0.0951	0.1035	92
1,3,5-Trimethylbenzene	3.8218	7.6435	19.1088	1.2748	9.7332	9.8315	99
1,2,4-Trimethylbenzene	3.6101	7.2201	18.0504	1.2042	9.0732	9.8315	92
1,3-Dichlorobenzene	0.1088	0.2175	0.5438	0.0363	0.5764	0.6012	96
1,4-Dichlorobenzene	0.1267	0.2534	0.6335	0.0423	0.5373	0.6012	89
1,2-Dichlorobenzene	0.1154	0.2308	0.5769	0.0385	0.5779	0.6012	96
1,2,4-Trichlorobenzene	0.5098	1.0196	2.5491	0.1701	0.7662	0.7421	103
Naphthalene	0.0931	0.1863	0.4657	0.0311	0.0976	0.1048	93
Hexachlorobutadiene	0.1081	0.2162	0.5405	0.0361	0.3146	0.2133	148
IA Naphthalene	0.0271	0.0543	0.1357	0.0091	0.1212	0.1048	116
Gasoline Range Organics	29.6568	59.3135	148.2838	9.8922	332.9713	328.0000	102

**EPA TO-15**  
**Sequence Tables**

Sequence Name: C:\msdchem\1\sequence\11-15-22.s

Comment:

Operator: bat

Data Path: D:\GCMS7\GCMS7\_DATA\11-15-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:


Data Analysis Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch  
(X) Full Method              (X) Inject Anyway  
( ) Reprocessing Only        ( ) Don't Inject

-----

Line	Sample Name/Misc Info
1) Sample	1 111501 TO15DC rinse
2) Sample	2 111502 TO15DC BFB 67-184a
3) Sample	3 111503 TO15DC 25 ppbv std prime
4) Sample	4 111504 TO15DC 25 ppbv scv prime
5) Sample	5 111505 TO15DC 1.0 ppbv prime
6) Sample	6 111506 TO15DC 0.1 ppbv prime
7) Sample	7 111507 TO15DC 0.05 ppbv prime
8) Sample	8 111508 TO15DC 0.02 ppbv prime
9) Sample	9 111509 SRINSE rinse, short
10) Sample	10 111510 SRINSE rinse, short
11) Sample	11 111511 SRINSE rinse, short
12) Sample	12 111512 TO15DC rinse
13) Sample	13 111513 TO15DC rinse
14) Sample	14 111514 TO15DC rinse
15) Sample	15 111515 TO15DC 0.01 ppbv TO15 67-196e
16) Sample	16 111516 TO15DC 0.01 ppbv 67-196e
17) Sample	17 111517 TO15DC 0.02 ppbv 67-196e
18) Sample	18 111518 TO15DC 0.05 ppbv 67-196D
19) Sample	19 111519 TO15DC 0.1 ppbv 67-196c
20) Sample	20 111520 TO15DC 0.2 ppbv 67-196B
21) Sample	21 111521 TO15DC 0.5 ppbv 67-196B
22) Sample	22 111522 TO15DC 1.0 ppbv 67-196B
23) Sample	23 111523 TO15DC 2.5 ppbv 67-196a
24) Sample	24 111524 TO15DC 4.0 ppbv 67-196a
25) Sample	25 111525 TO15DC 5.0 ppbv 67-196a
26) Sample	26 111526 TO15DC 8.0 ppbv 67-196a
27) Sample	27 111527 TO15DC 10 ppbv 67-196a
28) Sample	28 111528 TO15DC 15 ppbv 67-196a
29) Sample	29 111529 TO15DC rinse
30) Sample	30 111530 TO15DC rinse
31) Sample	31 111531 TO15DC 2.5 ppbv 67-167a
32) Sample	32 111532 TO15DC rinse

Sample	1	rinse	TO15DC	111601	T1
Sample	2	BFB 67-184a	TO15DC	111602	T1
Sample	3	02-2755 lcs/ 2.5ppbv 67-196a	TO15DC	111603	cal line
Sample	4	5 ppbv APH 67-163a	TO15DC	111604	Line 2
Sample	5	02-2755 lcs/ 67 ug/m3 67-160b	TO15DC	111605	Line 3
Sample	6	tree rinse	SRINSE	111606	T1
Sample	7	tree rinse	SRINSE	111607	T1
Sample	8	rinse	TO15DC	111608	T1
Sample	9	rinse	TO15DC	111609	T1
Sample	10	02-2755 MB	TO15DC	111610	T1
Sample	11	211099-01	TO15DC	111611	T2
Sample	12	211099-02	TO15DC	111612	T3
Sample	13	211099-03	TO15DC	111613	T4
Sample	14	211099-04	TO15DC	111614	T5
Sample	15	211099-05	TO15DC	111615	T6
Sample	16	211099-06	TO15DC	111616	T7
Sample	17	211099-07	TO15DC	111617	T8
Sample	18	211099-08	TO15DC	111618	T9
Sample	19	rinse	TO15DC	111619	T1
Sample	20	211070-01 dup 1/5.3	TO15DC	111620	T10
Sample	21	211070-01 1/5.3	TO15DC	111621	T10
Sample	22	211070-02 1/5.1	TO15DC	111622	T11
Sample	23	211070-03 1/5.5	TO15DC	111623	T12
Sample	24	rinse	TO15DC	111624	T1
Sample	25	211069-03 1/4.8	TO15DC	111625	T13
Sample	26	211069-02 1/4.8	TO15DC	111626	T14
Sample	27	211069-01 1/5.4	TO15DC	111627	T15
Sample	28	rinse	TO15DC	111628	T1
Sample	29	211048-01 1/270	TO15DC	111629	Line 4
Sample	30	rinse	TO15DC	111630	T1
Sample	31	rinse	TO15DC	111631	T1

  
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## Injection Log

Data Directory: D:\Proc\_GCMS7\11-15-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 111501.D rinse	TO15DC.M T1	1	1.000	15 Nov 2022 6:19 pm
2) 111502.D BFB 67-184a	TO15DC.M T1	2	1.000	15 Nov 2022 6:54 pm
3) 111503.D 25 ppbv std prime	TO15DC.M cal line	3	1.000	15 Nov 2022 7:29 pm
4) 111504.D 25 ppbv scv prime	TO15DC.M T7	4	1.000	15 Nov 2022 8:04 pm
5) 111505.D 1.0 ppbv prime	TO15DC.M T6	5	1.000	15 Nov 2022 8:38 pm
6) 111506.D 0.1 ppbv prime	TO15DC.M T5	6	1.000	15 Nov 2022 9:14 pm
7) 111507.D 0.05 ppbv prime	TO15DC.M T4	7	1.000	15 Nov 2022 9:50 pm
8) 111508.D 0.02 ppbv prime	TO15DC.M T3	8	1.000	15 Nov 2022 10:27 pm
9) 111509.D rinse, short	SRINSE.M T1	9	1.000	15 Nov 2022 11:06 pm
10) 111510.D rinse, short	SRINSE.M T1	10	1.000	15 Nov 2022 11:42 pm
11) 111511.D rinse, short	SRINSE.M T1	11	1.000	16 Nov 2022 12:18 am
12) 111512.D rinse	TO15DC.M T1	12	1.000	16 Nov 2022 1:00 am
13) 111513.D rinse	TO15DC.M T1	13	1.000	16 Nov 2022 1:44 am
14) 111514.D rinse	TO15DC.M T1	14	1.000	16 Nov 2022 2:28 am
15) 111515.D 0.01 ppbv TO15 67-..	TO15DC.M T3, 125cc of 0.02..	15	1.000	16 Nov 2022 3:05 am
16) 111516.D 0.01 ppbv 67-196e	TO15DC.M T3, 125cc of 0.02..	16	1.000	16 Nov 2022 3:43 am
17) 111517.D 0.02 ppbv 67-196e	TO15DC.M T3, 250cc of 0.02p..	17	1.000	16 Nov 2022 4:27 am
18) 111518.D 0.05 ppbv 67-196D	TO15DC.M T4, 250cc of 0.05p..	18	1.000	16 Nov 2022 5:11 am
19) 111519.D 0.1 ppbv 67-196c	TO15DC.M T5, 250cc of 0.1ppbv	19	1.000	16 Nov 2022 5:54 am
20) 111520.D 0.2 ppbv 67-196B	TO15DC.M T6, 50cc of 1ppbv	20	1.000	16 Nov 2022 6:29 am
21) 111521.D	TO15DC.M			



0.5 ppbv 67-196B	T6, 125cc of 1ppbv	21	1.000	16 Nov 2022	7:07 am
22) 111522.D	TO15DC.M				
1.0 ppbv 67-196B	T6, 250cc of 1ppbv	22	1.000	16 Nov 2022	7:51 am
23) 111523.D	TO15DC.M				
2.5 ppbv 67-196a	cal line, 25cc of ..	23	1.000	16 Nov 2022	8:25 am
24) 111524.D	TO15DC.M				
4.0 ppbv 67-196a	cal line, 25cc of ..	24	1.000	16 Nov 2022	9:00 am
25) 111525.D	TO15DC.M				
5.0 ppbv 67-196a	cal line, 25cc of ..	25	1.000	16 Nov 2022	9:34 am
26) 111526.D	TO15DC.M				
8.0 ppbv 67-196a	cal line, 25cc of ..	26	1.000	16 Nov 2022	10:10 am
27) 111527.D	TO15DC.M				
10 ppbv 67-196a	cal line, 25cc of ..	27	1.000	16 Nov 2022	10:46 am
28) 111528.D	TO15DC.M				
15 ppbv 67-196a	cal line, 25cc of ..	28	1.000	16 Nov 2022	11:25 am
29) 111529.D	TO15DC.M				
rinse	T1	29	1.000	16 Nov 2022	12:08 pm
30) 111530.D	TO15DC.M				
rinse	T1	30	1.000	16 Nov 2022	12:52 pm
31) 111531.D	TO15DC.M				
2.5 ppbv 67-167a	T7, 25cc of 25ppbv	31	1.000	16 Nov 2022	1:27 pm

Sequence Name: D:\GCMS7\GCMS7\_Data\12-16-22.s

Comment:

Operator: bat

Data Path: D:\GCMS7\GCMS7\_DATA\12-16-22\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run On A Barcode Mismatch

(X) Full Method (X) Inject Anyway

( ) Reprocessing Only ( ) Don't Inject

*M.12/9*

Line	Sample Name/Misc Info
1) Sample	1 121601 TO15DC rinse
2) Sample	2 121602 TO15DC BFB 68-35a
3) Sample	3 121603 TO15DC 02-2970 lcs/ 2.5 ppbv 68-40a
4) Sample	4 121604 TO15DC 5 ppbv APH 68-5a
5) Sample	6 121605 TO15DC 02-2970 lcs/ 67 ug/ml 68-6b
6) Sample	7 121606 TO15DC 02-2970 lcs/ 80 ppbv Gx 68-30
7) Sample	8 121607 SRINSE rinse, short
8) Sample	8 121608 SRINSE rinse, short
9) Sample	9 121609 TO15DC rinse
10) Sample	10 121610 TO15DC rinse
11) Sample	11 121611 TO15DC 02-2970 MB
12) Sample	12 121612 TO15DC 212177-07
13) Sample	13 121613 TO15DC 212177-06
14) Sample	14 121614 TO15DC 212177-05
15) Sample	15 121615 TO15DC 212177-04
16) Sample	16 121616 TO15DC 212177-01 1/5.0
17) Sample	17 121617 TO15DC 212177-03 1/11
18) Sample	18 121618 TO15DC 212177-02 1/56
19) Sample	19 121619 TO15DC rinse
20) Sample	20 121620 TO15DC rinse
21) Sample	21 121621 TO15DC 212175-04
22) Sample	22 121622 TO15DC 212175-05
23) Sample	23 121623 TO15DC 212175-06
24) Sample	24 121624 TO15DC 212175-01 1/5.2
25) Sample	25 121625 TO15DC 212175-02 1/5.2
26) Sample	26 121626 TO15DC 212175-03 1/5.1
27) Sample	27 121627 TO15DC rinse
28) Sample	28 121628 TO15DC 212172-02 dup 1/4.8
29) Sample	29 121629 TO15DC 212172-02 1/4.8
30) Sample	30 121630 TO15DC 212172-01 1/7.8
31) Sample	31 121631 TO15DC rinse
32) Sample	32 121632 TO15DC rinse

Sample	1	rinse	TO15DC	121601	T1
Sample	2	BFB 68-35a	TO15DC	121602	T1
Sample	3	02-2970 lcs/ 2.5 ppbv 68-40a	TO15DC	121603	Cal line
Sample	4	5 ppbv APH 68-5a	TO15DC	121604	line 2
Sample	6	02-2970 lcs/ 67 ug/ml 68-6b	TO15DC	121605	line 3
Sample	7	02-2970 lcs/ 80 ppbv Gx 68-30b	TO15DC	121606	line 4
Sample	8	rinse, short	SRINSE	121607	T1
Sample	8	rinse, short	SRINSE	121608	T1
Sample	9	rinse	TO15DC	121609	T1
Sample	10	rinse	TO15DC	121610	T1
Sample	11	02-2970 MB	TO15DC	121611	T1
Sample	12	212177-07	TO15DC	121612	T2
Sample	13	212177-06	TO15DC	121613	T3
Sample	14	212177-05	TO15DC	121614	T4
Sample	15	212177-04	TO15DC	121615	T5
Sample	16	212177-01 1/5.0	TO15DC	121616	T6
Sample	17	212177-03 1/11	TO15DC	121617	T7
Sample	18	212177-02 1/56	TO15DC	121618	T8
Sample	19	rinse	TO15DC	121619	T1
Sample	20	rinse	TO15DC	121620	T1
Sample	21	212175-04	TO15DC	121621	T9
Sample	22	212175-05	TO15DC	121622	T10
Sample	23	212175-06	TO15DC	121623	T11
Sample	24	212175-01 1/5.2	TO15DC	121624	T12
Sample	25	212175-02 1/5.2	TO15DC	121625	T13
Sample	26	212175-03 1/5.1	TO15DC	121626	T14
Sample	27	rinse	TO15DC	121627	T1
Sample	28	212172-02 dup 1/4.8	TO15DC	121628	T15
Sample	29	212172-02 1/4.8	TO15DC	121629	T15
Sample	30	212172-01 1/7.8	TO15DC	121630	T16
Sample	31	rinse	TO15DC	121631	T1
Sample	32	rinse	TO15DC	121632	T1

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12/16/24

## Injection Log

Data Directory: D:\Proc\_GCMS7\12-16-22\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) 121601.D rinse	TO15DC.M T1	1	1.000	16 Dec 2022 2:45 pm
2) 121602.D BFB 68-35a	TO15DC.M T1	2	1.000	16 Dec 2022 3:20 pm
3) 121603.D 02-2970 lcs/ 2.5 p.. Cal line	TO15DC.M line 2	3	1.000	16 Dec 2022 3:55 pm
4) 121604.D 5 ppbv APH 68-5a	TO15DC.M line 2	4	1.000	16 Dec 2022 4:30 pm
5) 121605.D 02-2970 lcs/ 67 ug.. line 3	TO15DC.M line 3	6	1.000	16 Dec 2022 5:09 pm
6) 121606.D 02-2970 lcs/ 80 pp.. line 4	TO15DC.M line 4	7	1.000	16 Dec 2022 5:44 pm
7) 121607.D rinse, short	SRINSE.M T1	8	1.000	16 Dec 2022 6:29 pm
8) 121608.D rinse, short	SRINSE.M T1	8	1.000	16 Dec 2022 7:06 pm
9) 121609.D rinse	TO15DC.M T1	9	1.000	16 Dec 2022 7:48 pm
10) 121610.D rinse	TO15DC.M T1	10	1.000	16 Dec 2022 8:31 pm
11) 121611.D 02-2970 MB	TO15DC.M T1	11	1.000	16 Dec 2022 9:15 pm
12) 121612.D 212177-07	TO15DC.M T2	12	1.000	16 Dec 2022 10:00 pm
13) 121613.D 212177-06	TO15DC.M T3	13	1.000	16 Dec 2022 10:44 pm
14) 121614.D 212177-05	TO15DC.M T4	14	1.000	16 Dec 2022 11:32 pm
15) 121615.D 212177-04	TO15DC.M T5	15	1.000	17 Dec 2022 12:19 am
16) 121616.D 212177-01 1/5.0	TO15DC.M T6	16	1.000	17 Dec 2022 12:55 am
17) 121617.D 212177-03 1/11	TO15DC.M T7	17	1.000	17 Dec 2022 1:30 am
18) 121618.D 212177-02 1/56	TO15DC.M T8	18	1.000	17 Dec 2022 2:05 am
19) 121619.D rinse	TO15DC.M T1	19	1.000	17 Dec 2022 2:49 am
20) 121620.D rinse	TO15DC.M T1	20	1.000	17 Dec 2022 3:32 am
21) 121621.D	TO15DC.M			

*Handwritten notes:*

- Vertical line through samples 1-11 and 13-20.
- Vertical line through samples 12, 14, 15, 16, 17, 18, 19, 20.
- Sample 12: *PLEP Daylight*
- Sample 11: *12/16*
- Sample 1: *12/16*

212175-04	T9		21	1.000	17 Dec 2022	4:18 am
22) 121622.D		TO15DC.M				
212175-05	T10		22	1.000	17 Dec 2022	5:05 am
23) 121623.D		TO15DC.M				
212175-06	T11		23	1.000	17 Dec 2022	5:49 am
24) 121624.D		TO15DC.M				
212175-01 1/5.2	T12		24	1.000	17 Dec 2022	6:24 am
25) 121625.D		TO15DC.M				
212175-02 1/5.2	T13		25	1.000	17 Dec 2022	6:59 am
26) 121626.D		TO15DC.M				
212175-03 1/5.1	T14		26	1.000	17 Dec 2022	7:35 am
27) 121627.D		TO15DC.M				
rinse	T1		27	1.000	17 Dec 2022	8:19 am
28) 121628.D		TO15DC.M				
212172-02 dup 1/4.8	T15		28	1.000	17 Dec 2022	8:54 am
29) 121629.D		TO15DC.M				
212172-02 1/4.8	T15		29	1.000	17 Dec 2022	9:29 am
30) 121630.D		TO15DC.M				
212172-01 1/7.8	T16		30	1.000	17 Dec 2022	10:03 am
31) 121631.D		TO15DC.M				
rinse	T1		31	1.000	17 Dec 2022	10:47 am
32) 121632.D		TO15DC.M				
rinse	T1		32	1.000	17 Dec 2022	11:31 am

21/22

CVOC  
PA

BIEX

QC

# EPA TO-15 Checklists

# GC/MS ICAL Checklist

Instrument: GC/MS 7

Sequence Date: 11-15-22

Shift # 1

Item	Initial	Date
Shift and Batch		
Initial Calibration Analyzed, Evaluated and Passed	✓ <i>Ret</i>	11-18-22
2nd source passed <span style="float: right;"><i>* See note</i></span>	✓	
Analyte retention time checked	✓	
Tune passed	✓	
Non-Conformance Report filled out (if needed)	NA	

Notes: *- Carbon tetrachloride - raised RL to 2.5 ppbv*  
*- Brominated analytes (Bromodichloromethane, Dibromochloromethane, Bromoform - raised RL to 2.5 ppbv)*  
*\* - SCV but for Carbon tetrachloride & Bromoform "CA"*  
*Low Benzyl Chloride "CA"*

Attach this sheet to raw data package.

YA 11/21/22

Supervisor Initials and Date

## TO-15/TO-17 Daily Checklist

Instrument: GC/MS 7      Sequence Date: 12-16-22      Shift # 1

Item	Initial	Date
Shift and Batch		
All samples analyzed within 24 hour shift	✓ BJ	12-22-22
Internal Standards within limits 60%-140% of the CCV	✓	
Surrogate recoveries within limits (TO-15 only)	✓	
Laboratory control sample (LCS) recoveries within limits	✓	
Tune Analyzed and Passed	✓	
Continuing Calibration Analyzed, Evaluated and Passed	see N/ide	
Non-Conformance Report filled out (if needed)	NA	

Notes: EEhand out high in air, naphthalene  
- and 1,2,4-trichlorobenzene out air

Attach this sheet to raw data package.

YA 12/22/22  
 Supervisor Initials and Date



**EPA TO-15**  
**Internal Standard/Surrogate Summaries**

GC/MS QA-QC Check Report

Tune File : D:\Proc\_GCMS7\11-15-22\111502.D  
 Tune Time : 15 Nov 2022 6:54 pm

Daily Calibration File : D:\Proc\_GCMS7\11-15-22\111523.D

(BFB)

60056 277968 243467

File	Sample	Surrogate	Recovery %	Internal	Standard	Responses
111516.D	0.01 ppbv	91		63553	284548	252181
111517.D	0.02 ppbv	93		62504	285561	252187
111518.D	0.05 ppbv	90		63103	281669	250812
111519.D	0.1 ppbv 6	90		62284	285873	251782
111520.D	0.2 ppbv 6	92		63282	281999	252889
111521.D	0.5 ppbv 6	98		62780	282561	247110
111522.D	1.0 ppbv 6	99		61897	280612	252262
111523.D	2.5 ppbv 6	107		60056	277968	243467
111524.D	4.0 ppbv 6	106		61124	281759	251020
111525.D	5.0 ppbv 6	108		60983	276283	244337
111526.D	8.0 ppbv 6	107		57898	276532	249716
111527.D	10 ppbv 67	107		58357	276208	247864
111528.D	15 ppbv 67	113		58999	278765	247324
111531.D	2.5 ppbv 6	105		61975	285054	252304

(fails) - fails 24hr time check \* - fails criteria

Created: Fri Nov 18 15:30:42 2022 GCMS7

GC/MS QA-QC Check Report

Tune File : D:\Proc\_GCMS7\12-16-22\121602.D  
 Tune Time : 16 Dec 2022 3:20 pm

Daily Calibration File : D:\Proc\_GCMS7\12-16-22\121603.D

(BFB)

48699 202988 185926

File	Sample	Surrogate Recovery %	Internal	Standard	Responses
121609.D	rinse	85	48931	194659	180164
121610.D	rinse	82	45646	188408	174265
121611.D	02-2970 MB	83	46293	184657	166712
121612.D	212177-07	85	44819	179599	165033
121613.D	212177-06	85	44033	169942	164348
121614.D	212177-05	86	47906	185442	178237
121615.D	212177-04	84	47825	187147	183230
121616.D	212177-01	86	49496	196417	178767
121617.D	212177-03	88	50105	198061	178253
121618.D	212177-02	85	51670	196572	182484
121619.D	rinse	86	48253	197186	179026
121620.D	rinse	83	50110	197301	179543
121621.D	212175-04	88	49010	182908	190006
121622.D	212175-05	91	48570	190191	186472
121623.D	212175-06	92	49006	191668	181149
121624.D	212175-01	86	48034	196089	191768
121625.D	212175-02	87	49892	198728	187206
121626.D	212175-03	85	49658	197319	192083
121627.D	rinse	85	49535	196562	178572

T015  
 page 1 of 1  
 12/16/22

121628.D	212172-02	81	51221	194179	182206
121629.D	212172-02	83	49147	196780	181102
121630.D	212172-01	97	49637	198671	196619
121631.D	rinse	82	49665	192186	180491
121632.D	rinse	82	49511	193092	178379

*KOIS*  
*page 20/2*  
*12/22/22*

(fails) - fails 24hr time check \* - fails criteria

Created: Thu Dec 22 14:54:20 2022 GCMS7

GC/MS QA-QC Check Report

CF

Tune File : D:\Proc\_GCMS7\12-16-22\121602.D

Tune Time : 16 Dec 2022 3:20 pm

Daily Calibration File : D:\Proc\_GCMS7\12-16-22\121606.D

(BFB)

48429 205671 184733

File Sample Surrogate Recovery % Internal Standard Responses

=====  
121611.D  
02-2970 MB 90 46293 184657 166712

-----  
121628.D  
212172-02 88 51221 194179 182206

-----  
121629.D  
212172-02 90 49147 196780 181102

-----  
121630.D  
212172-01 105 49637 198671 196619

-----  
(fails) - fails 24hr time check \* - fails criteria

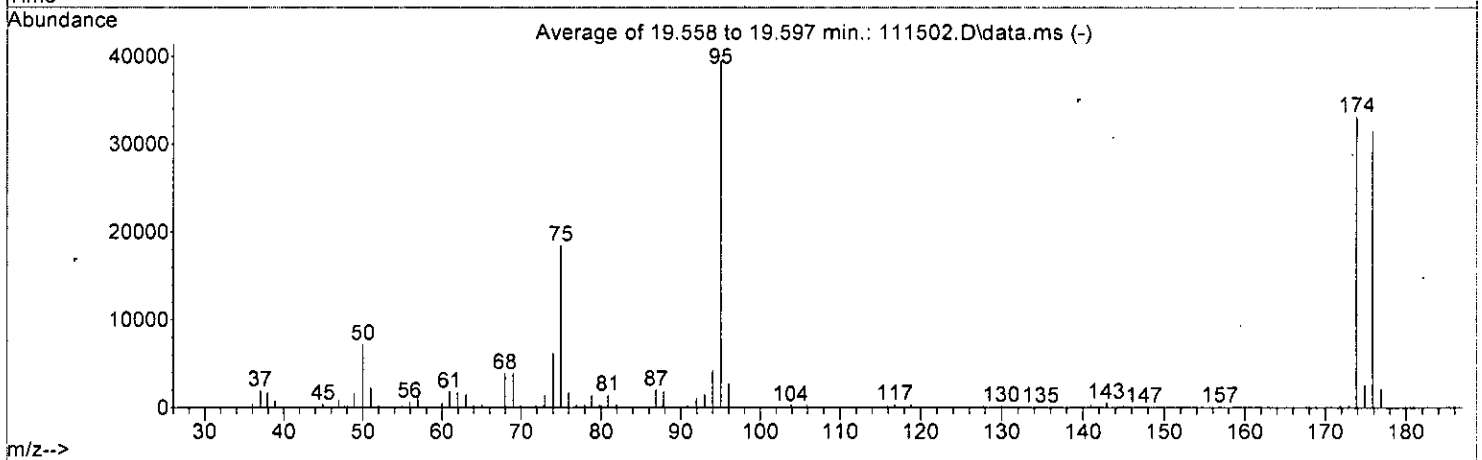
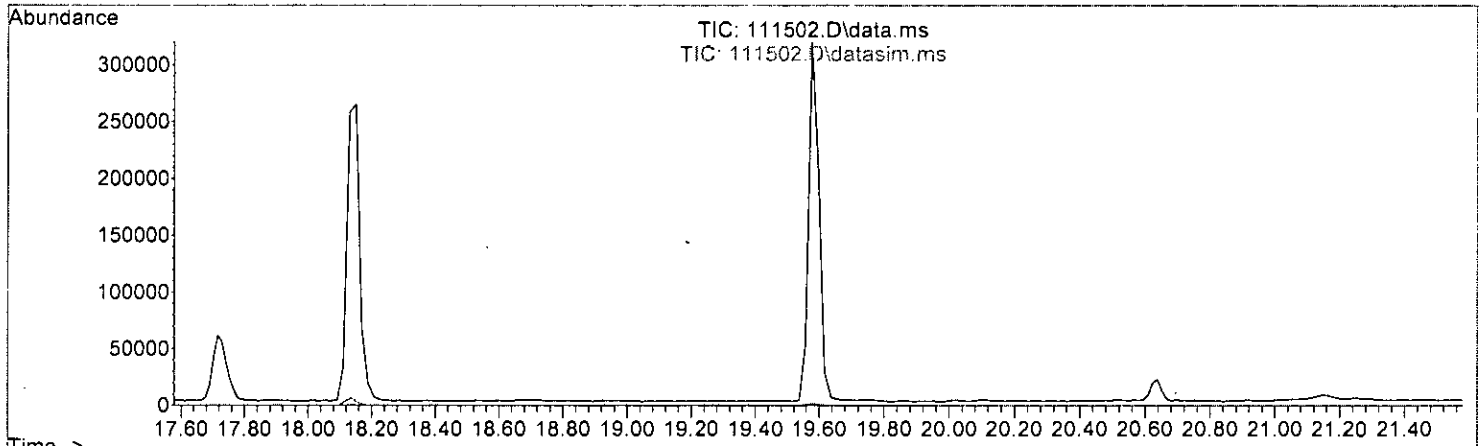
Created: Thu Dec 22 14:56:25 2022 GCMS7

**EPA TO-15  
Tune Summaries**

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111502.D  
 Acq On : 15 Nov 2022 6:54 pm  
 Operator : bat  
 Sample : BFB 67-184a  
 Misc : T1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p  
 Integration File signal 2: rteint2.p

Method : D:\GCMS7 Methods\1115T015ss7.M  
 Title : T0-15 SS method  
 Last Update : Fri Nov 18 12:30:32 2022



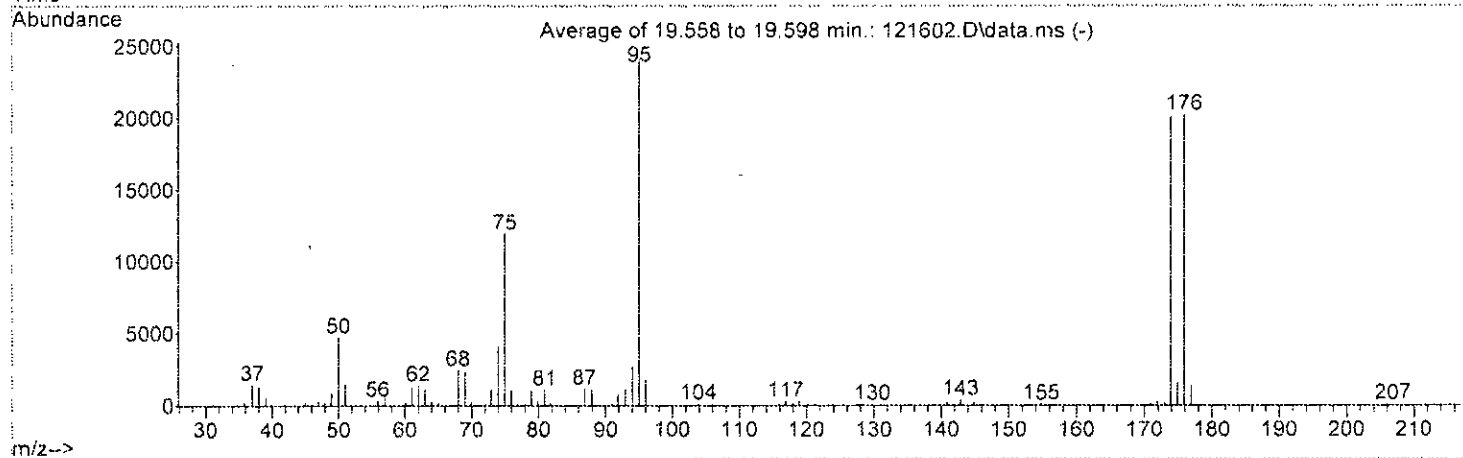
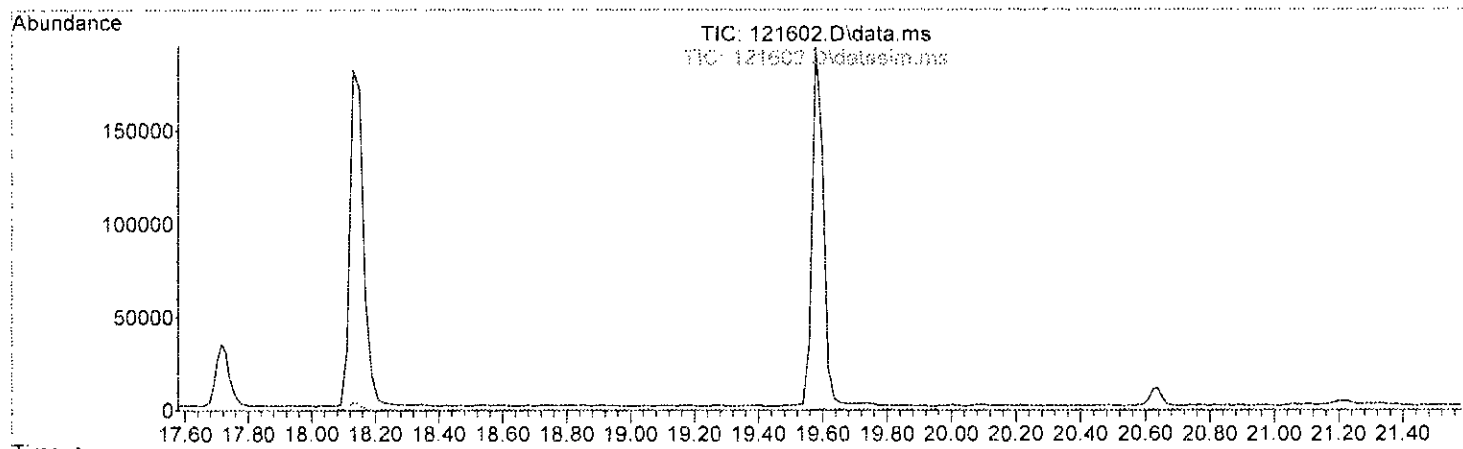
AutoFind: Scans 791, 792, 793; Background Corrected with Scan 787

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	7157	PASS
75	95	30	66	46.8	18431	PASS
95	95	100	100	100.0	39397	PASS
96	95	5	9	6.6	2599	PASS
173	174	0.00	2	0.5	155	PASS
174	95	50	120	84.0	33111	PASS
175	174	4	9	7.3	2426	PASS
176	174	93	101	94.8	31402	PASS
177	176	5	9	6.4	2022	PASS

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121602.D  
 Acq On : 16 Dec 2022 3:20 pm  
 Operator : bat  
 Sample : BFB 68-35a  
 Misc : T1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p  
 Integration File signal 2: rteint2.p

Method : D:\GCMS7 Methods\1115T015ss7.M  
 Title : TO-15 SS method  
 Last Update : Fri Nov 18 12:30:32 2022



AutoFind: Scans 791, 792, 793; Background Corrected with Scan 787

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.6	4709	PASS
75	95	30	66	49.5	11918	PASS
95	95	100	100	100.0	24068	PASS
96	95	5	9	7.3	1761	PASS
173	174	0.00	2	0.7	144	PASS
174	95	50	120	83.3	20043	PASS
175	174	4	9	7.5	1498	PASS
176	174	93	101	100.9	20229	PASS
177	176	5	9	6.7	1355	PASS



**EPA TO-15**  
**Initial Calibrations**

Calibration Status Report GCMS7

Method Path : D:\GCMS7 Methods\  
 Method File : 1115TO15ss7.M  
 Title : TO-15 SS method  
 Last Update : Fri Nov 18 12:30:32 2022  
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.01	-1	10	D:\Proc_GCMS7\11-15-22\111516.D
2	0.02	0	10	D:\Proc_GCMS7\11-15-22\111517.D
3	0.05	0	10	D:\Proc_GCMS7\11-15-22\111518.D
4	0.1	0	10	D:\Proc_GCMS7\11-15-22\111519.D
5	0.2	0	10	D:\Proc_GCMS7\11-15-22\111520.D
6	0.5	1	10	D:\Proc_GCMS7\11-15-22\111521.D
7	1	1	10	D:\Proc_GCMS7\11-15-22\111522.D
8	2.5	3	10	D:\Proc_GCMS7\11-15-22\111523.D
9	4	4	10	D:\Proc_GCMS7\11-15-22\111524.D
10	5	5	10	D:\Proc_GCMS7\11-15-22\111525.D
11	8	8	10	D:\Proc_GCMS7\11-15-22\111526.D
12	10	10	10	D:\Proc_GCMS7\11-15-22\111527.D
13	15	15	10	D:\Proc_GCMS7\11-15-22\111528.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.01	Nov 16 12:19 2022	Nov 16 12:16 2022	16 Nov 2022 3:43 am
2	0.02	Nov 16 12:19 2022	Nov 16 12:15 2022	16 Nov 2022 4:27 am
3	0.05	Nov 16 12:19 2022	Nov 16 12:14 2022	16 Nov 2022 5:11 am
4	0.1	Nov 16 12:19 2022	Nov 16 11:55 2022	16 Nov 2022 5:54 am
5	0.2	Nov 16 12:19 2022	Nov 16 12:00 2022	16 Nov 2022 6:29 am
6	0.5	Nov 16 12:19 2022	Nov 16 11:57 2022	16 Nov 2022 7:07 am
7	1	Nov 16 12:19 2022	Nov 16 12:02 2022	16 Nov 2022 7:51 am
8	2.5	Nov 16 12:19 2022	Nov 16 12:03 2022	16 Nov 2022 8:25 am
9	4	Nov 16 12:19 2022	Nov 16 12:05 2022	16 Nov 2022 9:00 am
10	5	Nov 16 12:19 2022	Nov 16 12:06 2022	16 Nov 2022 9:34 am
11	8	Nov 16 12:19 2022	Nov 16 12:07 2022	16 Nov 2022 10:10 am
12	10	Nov 16 12:19 2022	Nov 16 12:08 2022	16 Nov 2022 10:46 am
13	15	Nov 16 12:19 2022	Nov 16 12:09 2022	16 Nov 2022 11:25 am

1115TO15ss7.M Fri Nov 18 12:37:52 2022

## Compound List Report GCMS7

Method Path : D:\GCMS7 Methods\  
 Method File : 1115T015ss7.M  
 Title : TO-15 SS method  
 Last Update : Fri Nov 18 12:30:32 2022  
 Response Via : Initial Calibration

Total Cpnds : 78

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I Bromochloromethane	128	9.88	1.000	A	2	A	B
2	T Propene	41	3.41	0.345	Q	2	A	B
3	T Dichlorodifluoromethane	85	3.48	0.353	A	1	A	B
4	T Chloromethane	-50	3.73	0.377	A	1	A	B
5	T F-114	85	3.88	0.393	A	2	A	B
6	T Vinyl chloride	-62	4.09	0.414	A	1	A	B
7	T 1,3-Butadiene	-54	4.29	0.434	A	3	A	B
8	T Butane	43	4.32	0.437	A	1	A	B
9	T Bromomethane	94	4.60	0.465	A	1	A	B
10	T Chloroethane	-64	4.84	0.490	A	1	A	B
11	T Vinyl bromide	-106	5.32	0.538	A	1	A	B
12	T Ethanol	45	4.96	0.501	A	1	A	B
13	T Acrolein	-56	5.42	0.548	A	1	A	B
14	T Pentane	43	6.25	0.633	A	2	A	B
15	T Trichlorofluoromethane	101	5.84	0.591	A	1	A	B
16	T Acetone	58	5.57	0.563	A	1	A	B
17	T 2-Propanol	45	5.78	0.585	A	2	A	B
18	T 1,1-Dichloroethene	-96	6.63	0.671	A	2	A	B
19	T trans-1,2-Dichloroethene	-96	8.10	0.819	A	2	A	B
20	T Methylene chloride	84	6.80	0.689	A	2	A	B
21	T t-Butyl alcohol (TBA)	59	6.57	0.665	A	1	A	B
22	T 3-Chloropropene	41	6.94	0.702	A	1	A	B
23	T CFC-113	101	7.15	0.723	A	2	A	B
24	T Carbon disulfide	76	7.28	0.736	A	2	A	B
25	T Methyl t-butyl ether (MTBE)	73	8.43	0.853	A	1	A	B
26	T Vinyl acetate	43	8.54	0.864	A	1	A	B
27	T 1,1-Dichloroethane	-63	8.36	0.846	A	2	A	B
28	T cis-1,2-Dichloroethene	-96	9.64	0.975	A	2	A	B
29	T Hexane	57	10.01	1.013	A	2	A	B
30	T Chloroform	-83	10.10	1.022	Q	1	A	B
31	T Ethyl acetate	43	9.92	1.004	A	1	A	B
32	T Tetrahydrofuran	42	10.75	1.088	A	1	A	B
33	T 2-Butanone (MEK)	72	8.91	0.901	A	3	A	B
34	T 1,2-Dichloroethane (EDC)	-62	11.34	1.147	Q	1	A	B
35	T 1,1,1-Trichloroethane	-97	11.82	1.197	A	2	A	B
36	T Carbon tetrachloride	-117	12.86	1.302	A	1	A	B
37	T Benzene	-78	12.61	1.276	Q	1	A	B
38	T Cyclohexane	84	13.07	1.323	A	2	A	B
39	I 1,4-Difluorobenzene	114	13.14	1.000	A	2	A	B
40	T 1,2-Dichloropropane	-63	13.80	1.050	A	1	A	B
41	T 1,4-Dioxane	-88	14.09	1.072	A	1	A	B
42	T 2,2,4-Trimethylpentane	57	14.24	1.083	A	2	A	B
43	T Methyl methacrylate	41	14.36	1.093	A	2	A	B
44	T Heptane	43	14.56	1.108	A	3	A	B
45	T Bromodichloromethane	-83	14.04	1.069	A	2	A	B
46	T Trichloroethene	-95	14.14	1.076	A	3	A	B
47	T cis-1,3-Dichloropropene	75	15.20	1.157	A	2	A	B
48	T 4-Methyl-2-pentanone	100	15.23	1.158	A	3	A	B
49	T trans-1,3-Dichloropropene	-75	15.78	1.201	A	2	A	B
50	T Toluene	-92	16.31	1.241	A	1	A	B
51	T 1,1,2-Trichloroethane	-83	16.00	1.217	Q	2	A	B
52	T 2-Hexanone	43	16.56	1.260	A	3	A	B
53	T Tetrachloroethene	-164	17.52	1.333	A	3	A	B
54	T Dibromochloromethane	-129	16.76	1.275	A	2	A	B
55	T 1,2-Dibromoethane (EDB)	-107	17.04	1.297	Q	2	A	B

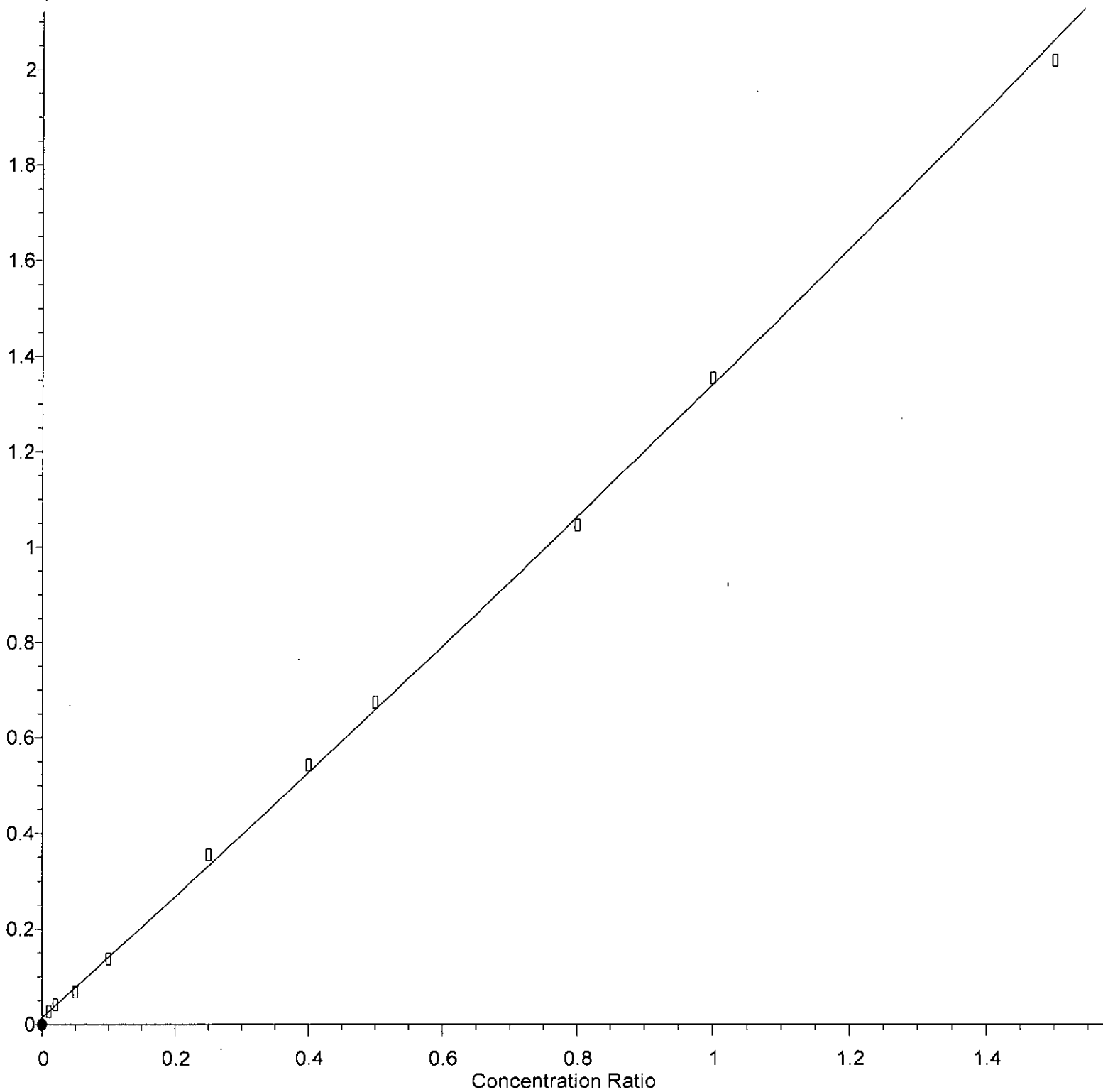
56	I	Chlorobenzene-d5	117	18.13	1.000	A	2	A	B
57	T	Chlorobenzene	112	18.19	1.003	A	2	A	B
58	T	Ethylbenzene	-91	18.53	1.022	Q	1	A	B
59	T	1,1,2,2-Tetrachloroethane	-83	19.13	1.055	Q	2	A	B
60	T	Nonane	43	19.30	1.065	A	3	A	B
61	T	Isopropylbenzene	105	19.70	1.086	A	1	A	B
62	T	2-Chlorotoluene	126	20.17	1.113	A	1	A	B
63	T	Propylbenzene	91	20.19	1.113	A	1	A	B
64	T	4-Ethyltoluene	105	20.32	1.121	A	1	A	B
65	T	m,p-Xylene	-106	18.70	1.032	A	1	A	B
66	T	o-Xylene	-106	19.15	1.056	A	1	A	B
67	T	Styrene	104	19.05	1.051	A	1	A	B
68	T	Bromoform	173	18.80	1.037	A	2	A	B
69	S	4-Bromofluorobenzene	95	19.58	1.080	A	2	A	B
70	T	Benzyl chloride	-91	20.95	1.155	QO	1	A	B
71	T	1,3,5-Trimethylbenzene	105	20.39	1.125	A	1	A	B
72	T	1,2,4-Trimethylbenzene	105	20.80	1.147	Q	1	A	B
73	T	1,3-Dichlorobenzene	-146	20.98	1.157	A	2	A	B
74	T	1,4-Dichlorobenzene	-146	21.05	1.161	A	2	A	B
75	T	1,2-Dichlorobenzene	-146	21.41	1.181	A	2	A	B
76	T	1,2,4-Trichlorobenzene	180	23.64	1.304	QO	2	A	B
77	T	Naphthalene	-128	23.84	1.315	Q	2	A	B
78	T	Hexachlorobutadiene	-225	24.44	1.348	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin  
 #Qual = number of qualifiers  
 A/H = Area or Height  
 ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

-----  
 1115T015ss7.M Fri Nov 18 12:37:44 2022

Propene

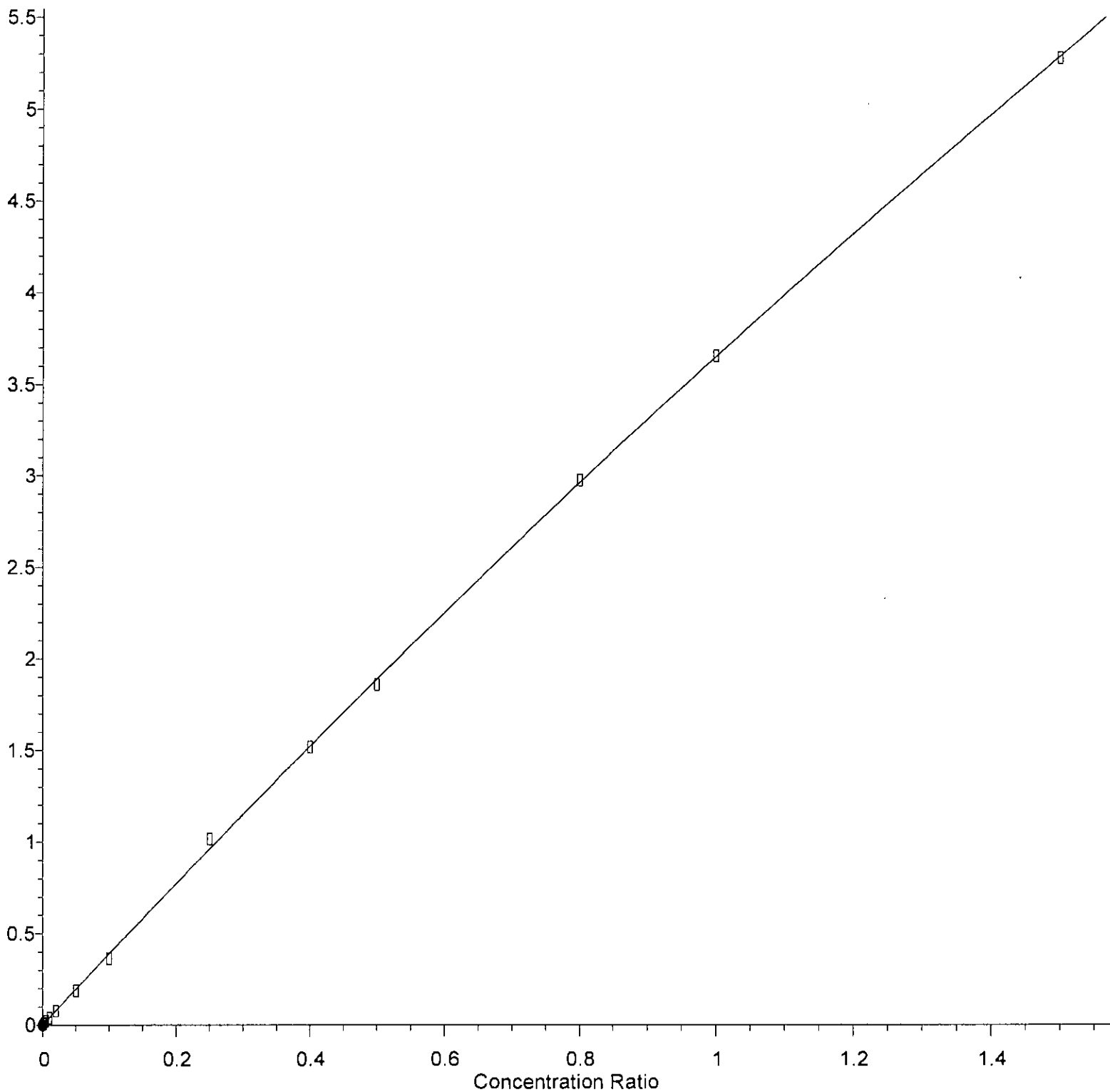
Response Ratio



$R = 7.642e-002 A^2 + 1.250e+000 A + 1.410e-002$   
Coef of Det ( $r^2$ ) = 0.995306 Curve Fit: Quadratic w( $1/a^2$ )  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

# Chloroform

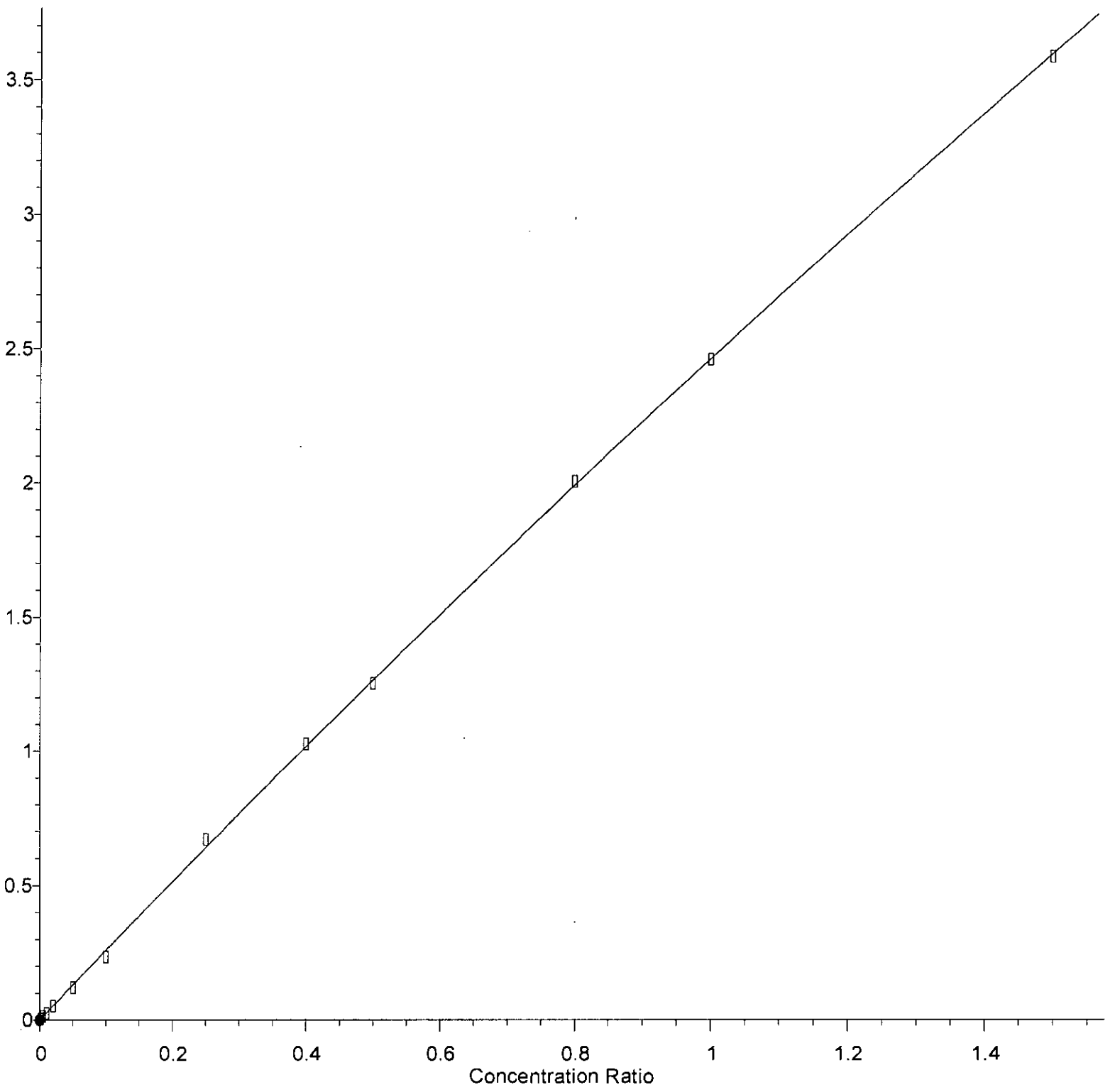
Response Ratio



$R = -2.518e-001 A^2 + 3.901e+000 A + 1.712e-003$   
Coef of Det ( $r^2$ ) = 0.999617 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

1,2-Dichloroethane (EDC)

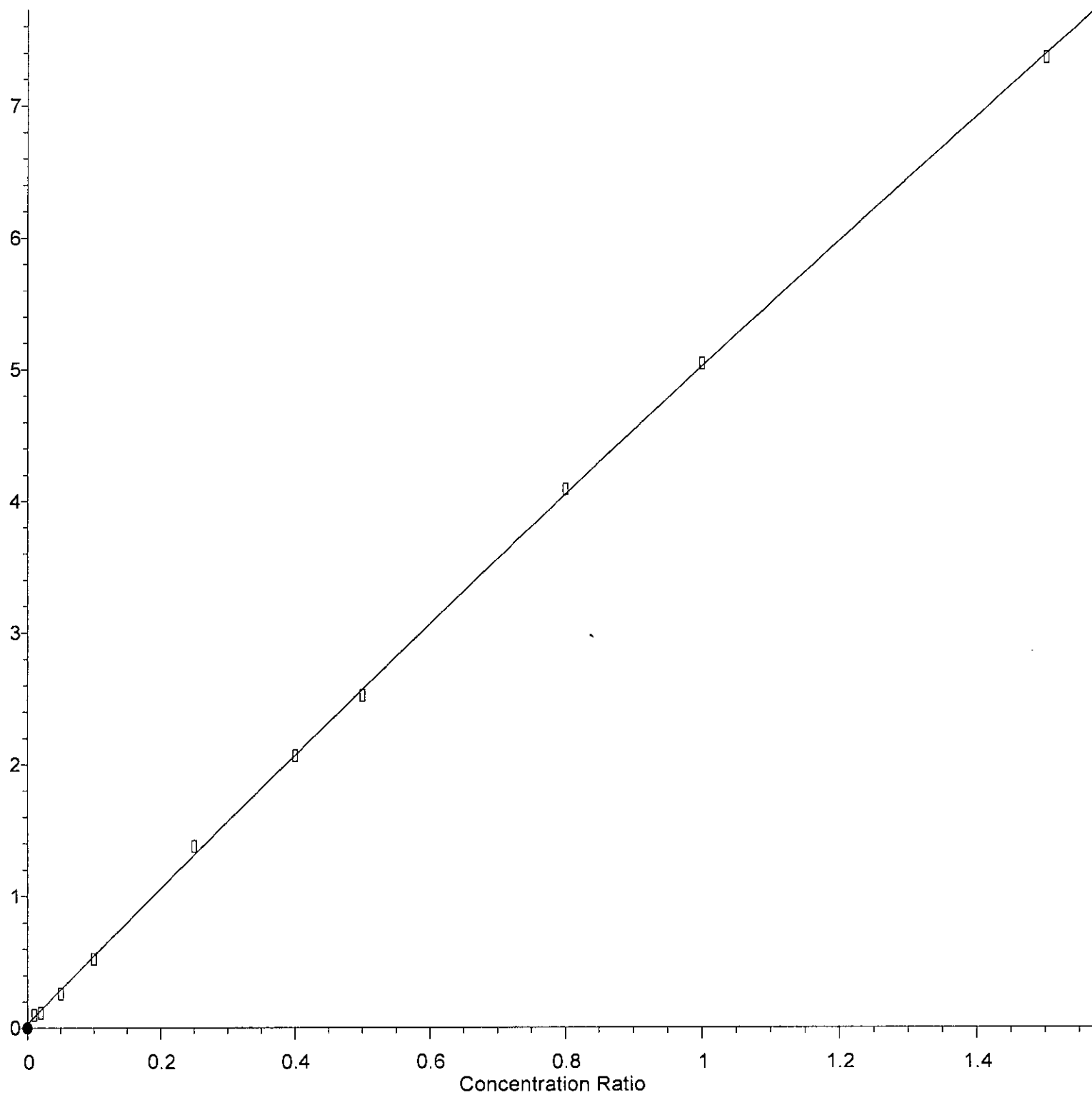
Response Ratio



$R = -1.295e-001 A^2 + 2.591e+000 A + 9.788e-004$   
Coef of Det ( $r^2$ ) = 0.999541 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

# Benzene

Response Ratio

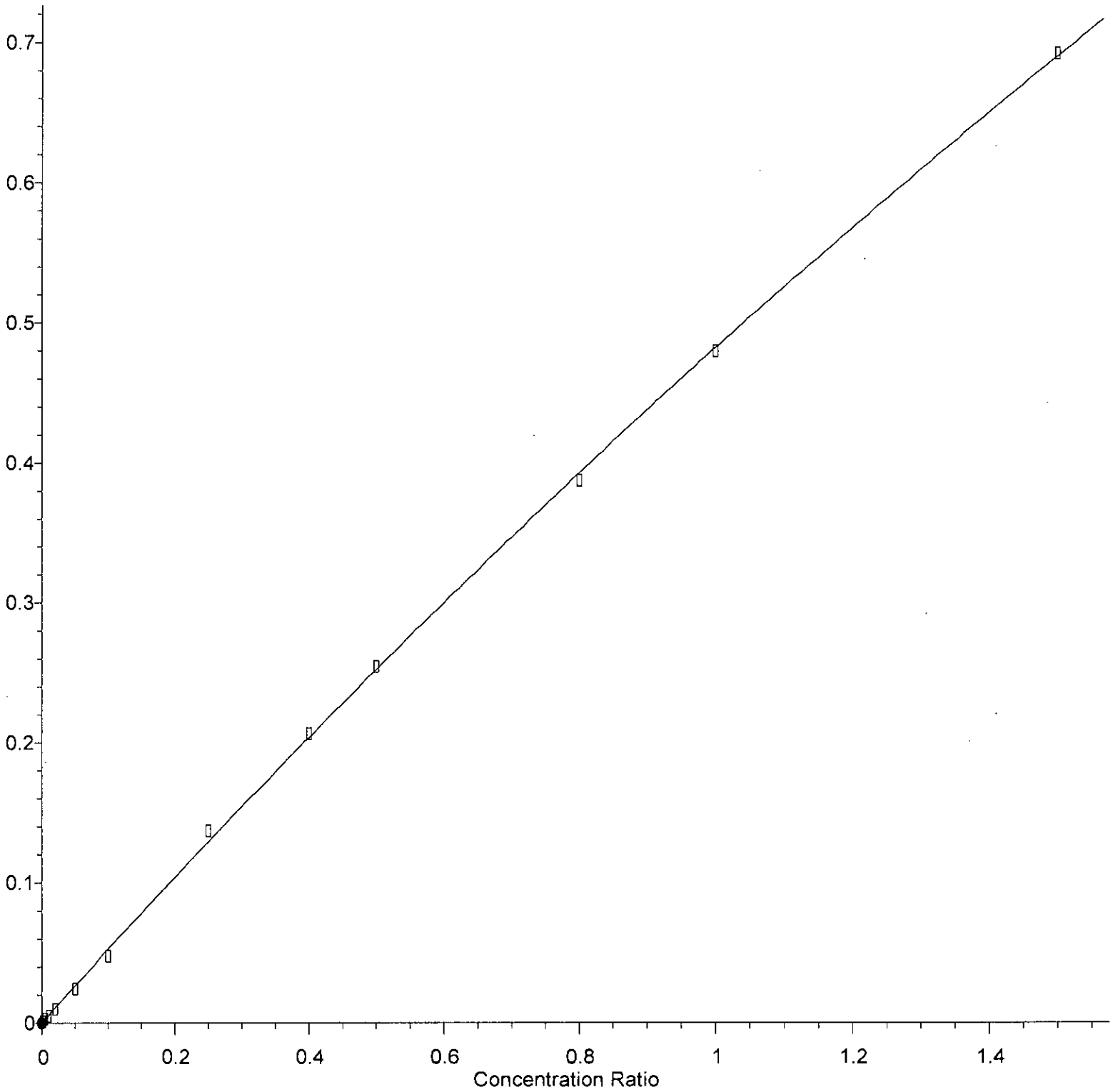


$R = -1.651e-001 A^2 + 5.153e+000 A + 3.193e-002$   
Coef of Det ( $r^2$ ) = 0.999101 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022



1,1,2-Trichloroethane

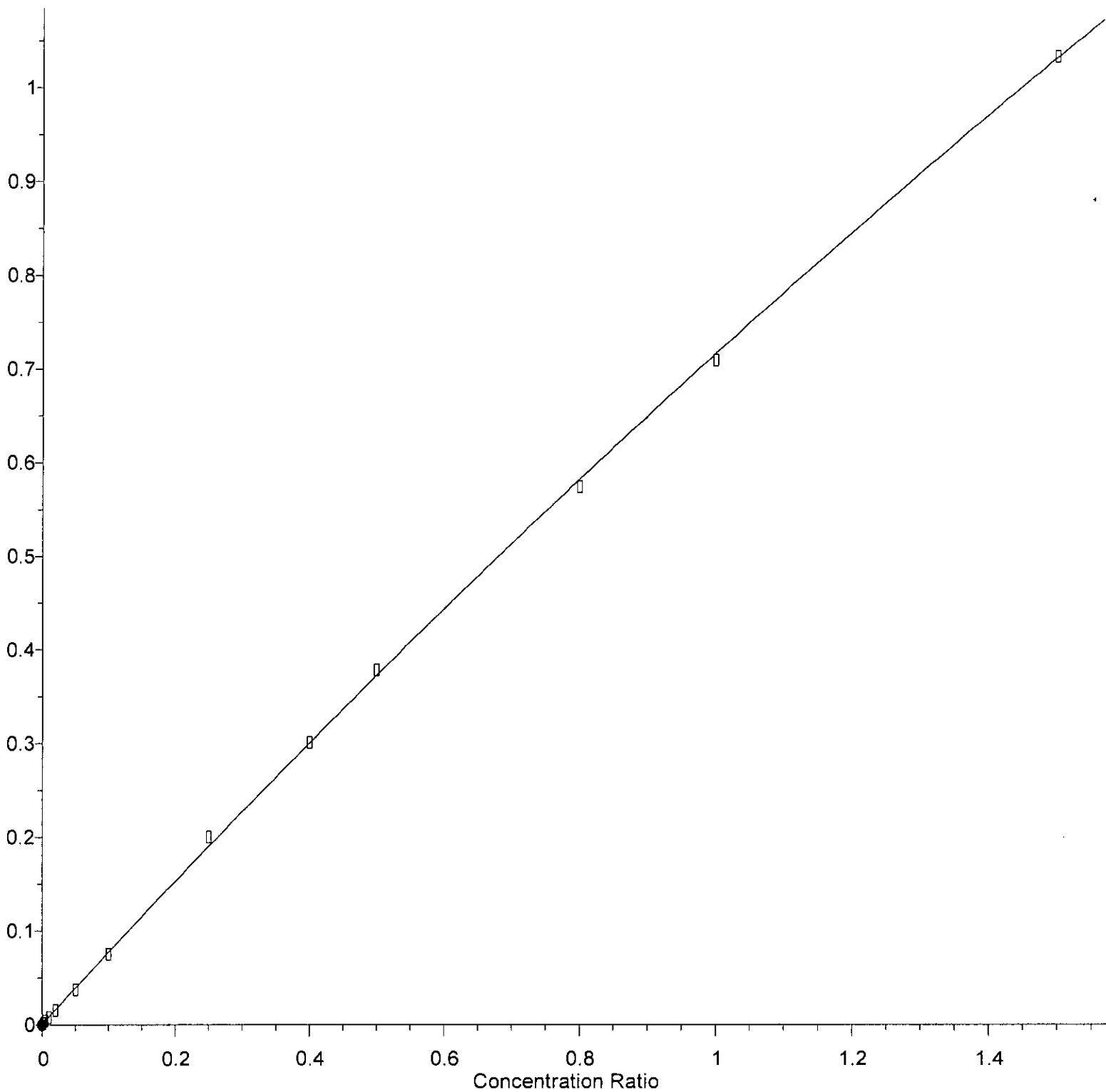
Response Ratio



$R = -4.431e-002 A^2 + 5.260e-001 A + 2.710e-004$   
Coef of Det ( $r^2$ ) = 0.999386 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

1,2-Dibromoethane (EDB)

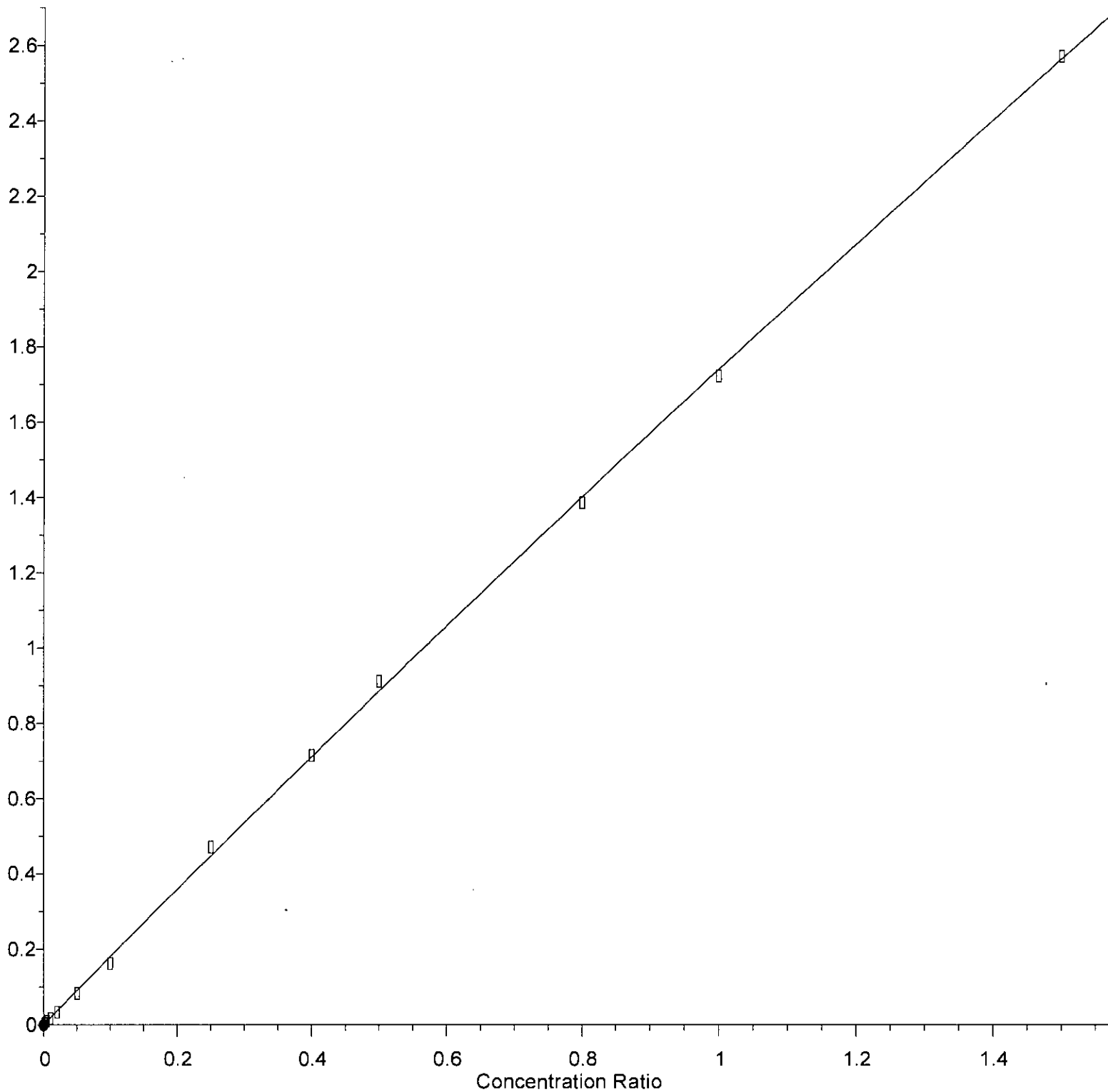
Response Ratio



R = -5.679e-002 A\*A + 7.728e-001 A + 4.918e-004  
Coef of Det (r^2) = 0.998482 Curve Fit: Quadratic w(1/a^2)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

# Ethylbenzene

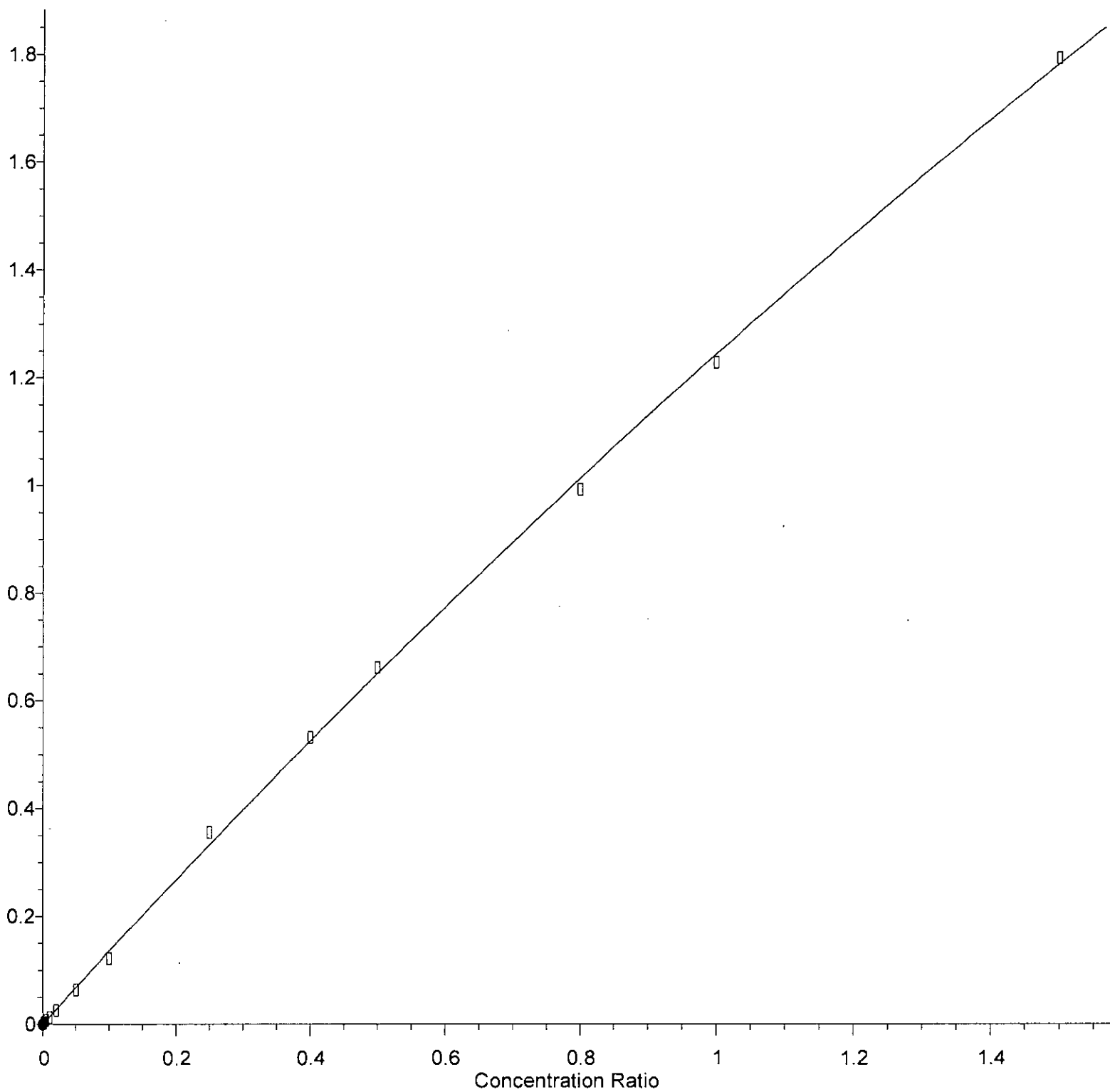
Response Ratio



$R = -5.879e-002 A^2 + 1.797e+000 A + 1.320e-003$   
Coef of Det ( $r^2$ ) = 0.999290 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

1,1,2,2-Tetrachloroethane

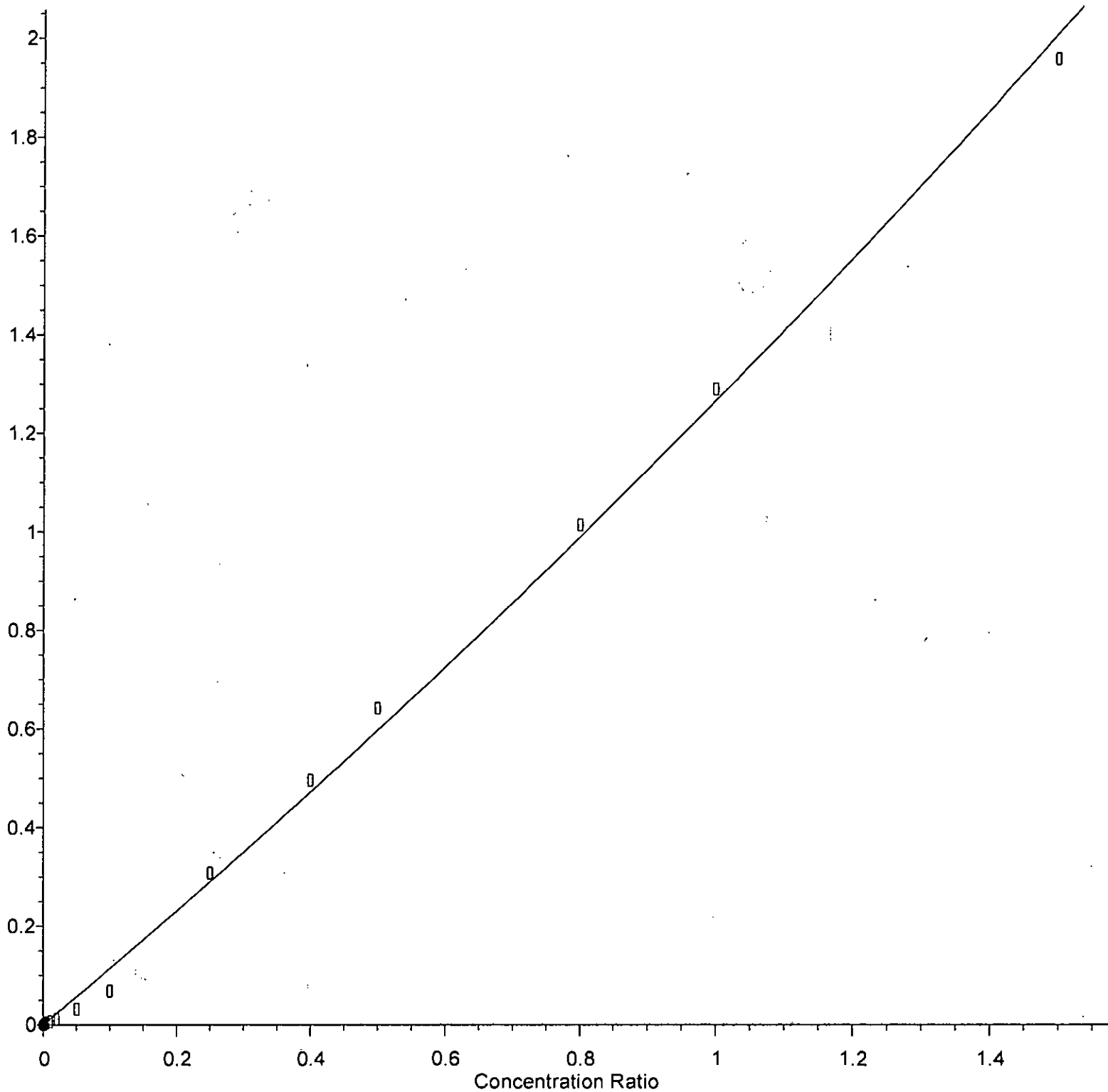
Response Ratio



$R = -1.123e-001 A^2 + 1.355e+000 A + 5.401e-004$   
Coef of Det ( $r^2$ ) = 0.999169 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

Benzyl chloride

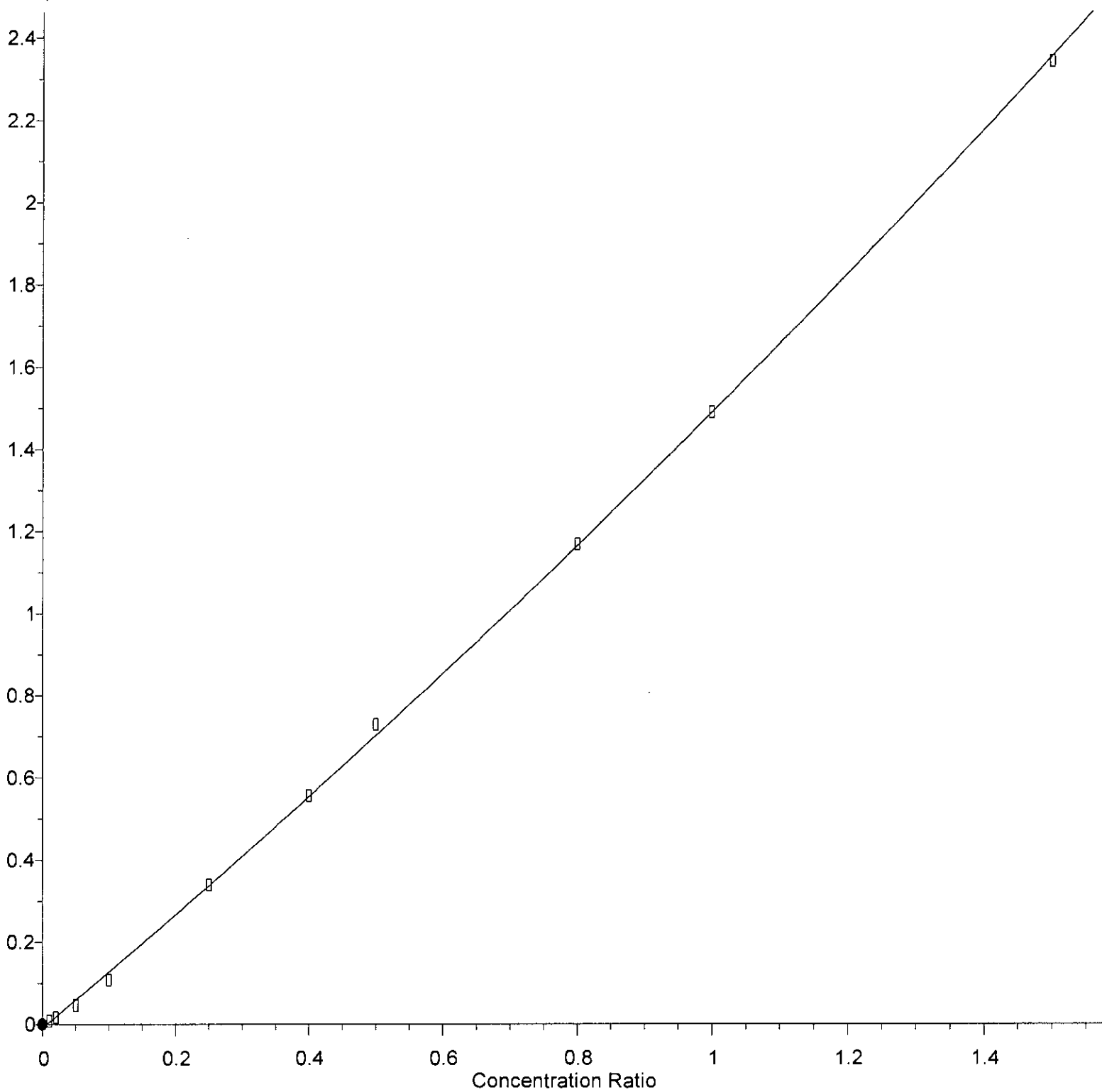
Response Ratio



R = 1.461e-001 A\*A + 1.120e+000 A + 0.000e+000  
Coef of Det (r^2) = 0.993475 Curve Fit: Quad w(1/a)/(0,0)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

1,2,4-Trimethylbenzene

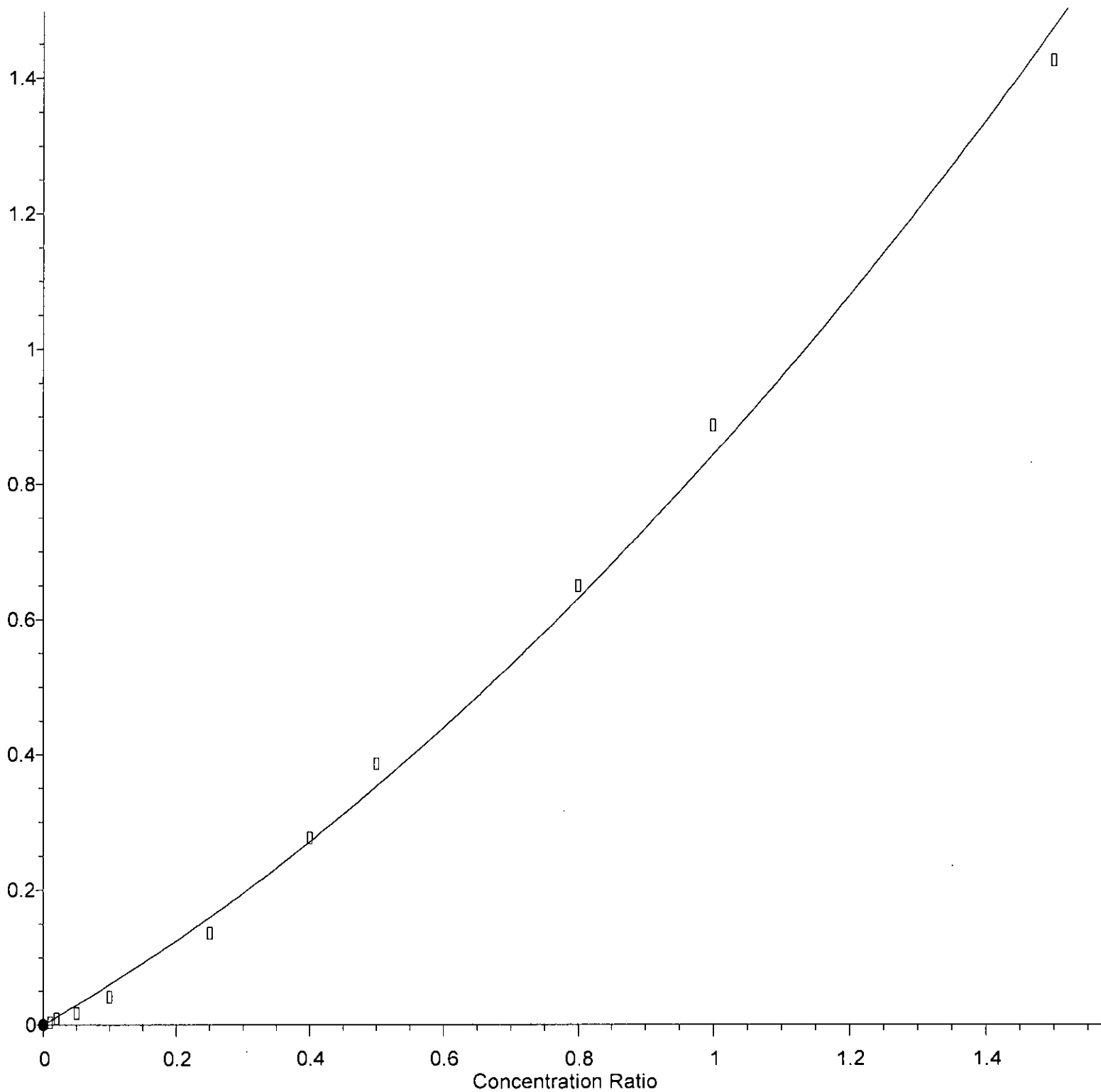
Response Ratio



$R = 1.565e-001 A^2 + 1.342e+000 A - 8.726e-003$   
Coef of Det ( $r^2$ ) = 0.998884 Curve Fit: Quadratic w(1/a)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

1,2,4-Trichlorobenzene

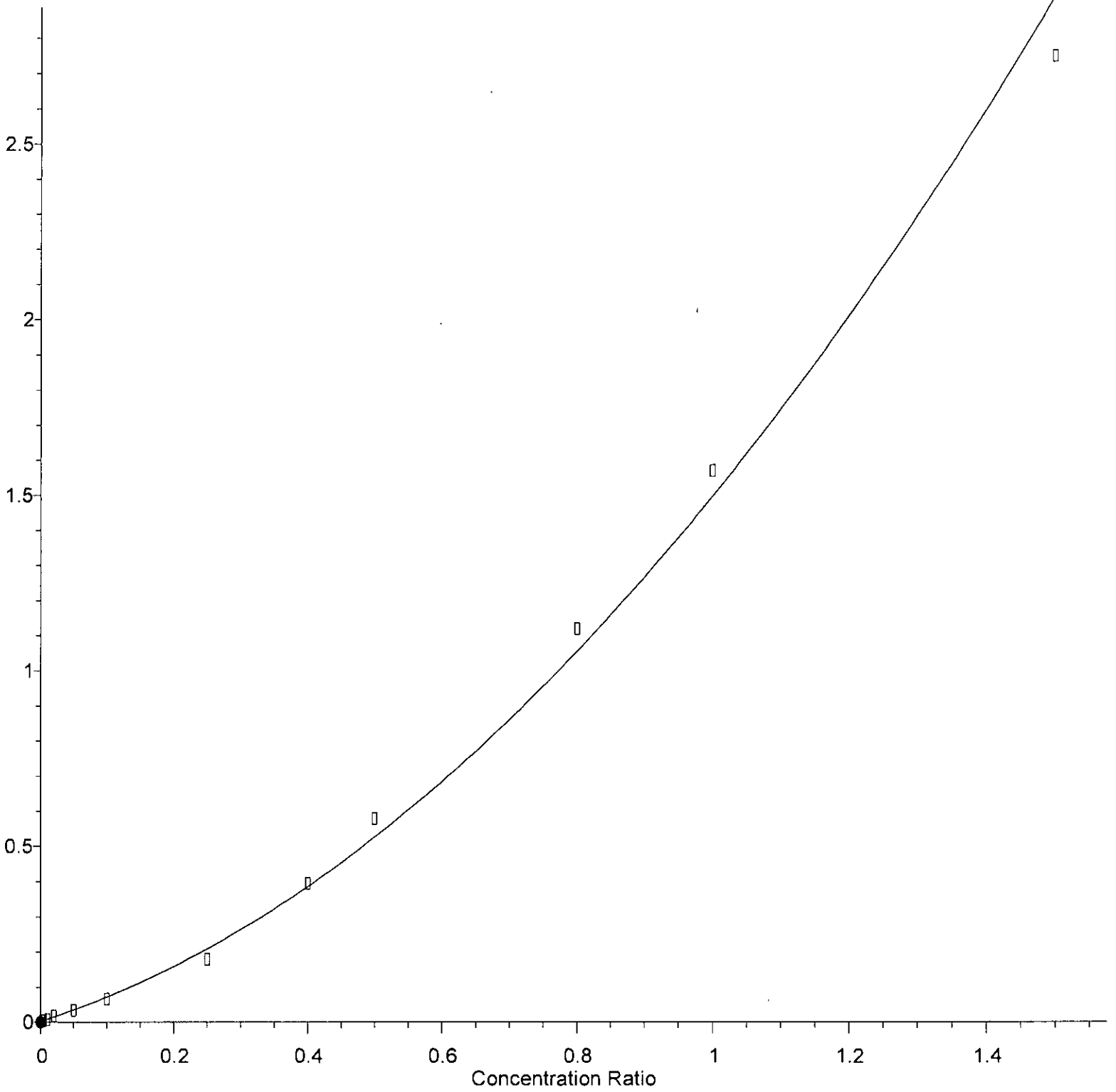
Response Ratio



R = 2.779e-001 A\*A + 5.657e-001 A + 0.000e+000  
Coef of Det (r^2) = 0.996017 Curve Fit: Quad w(1/a)/(0,0)  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022

# Naphthalene

Response Ratio



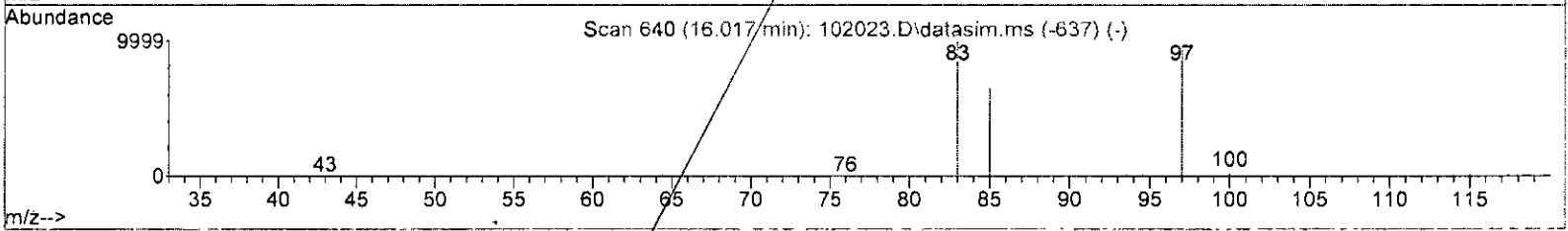
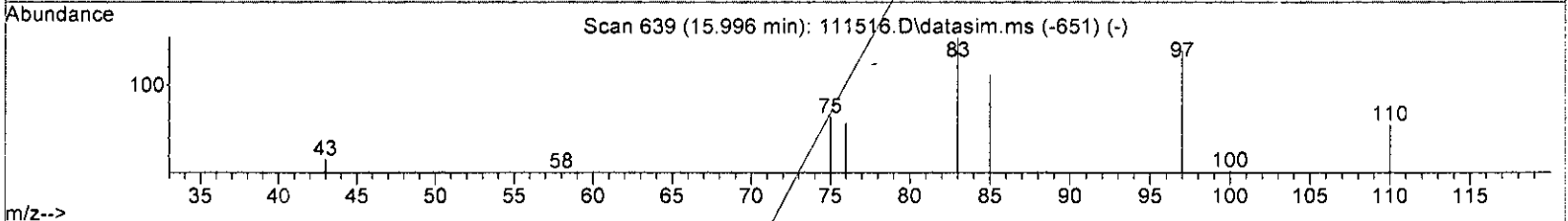
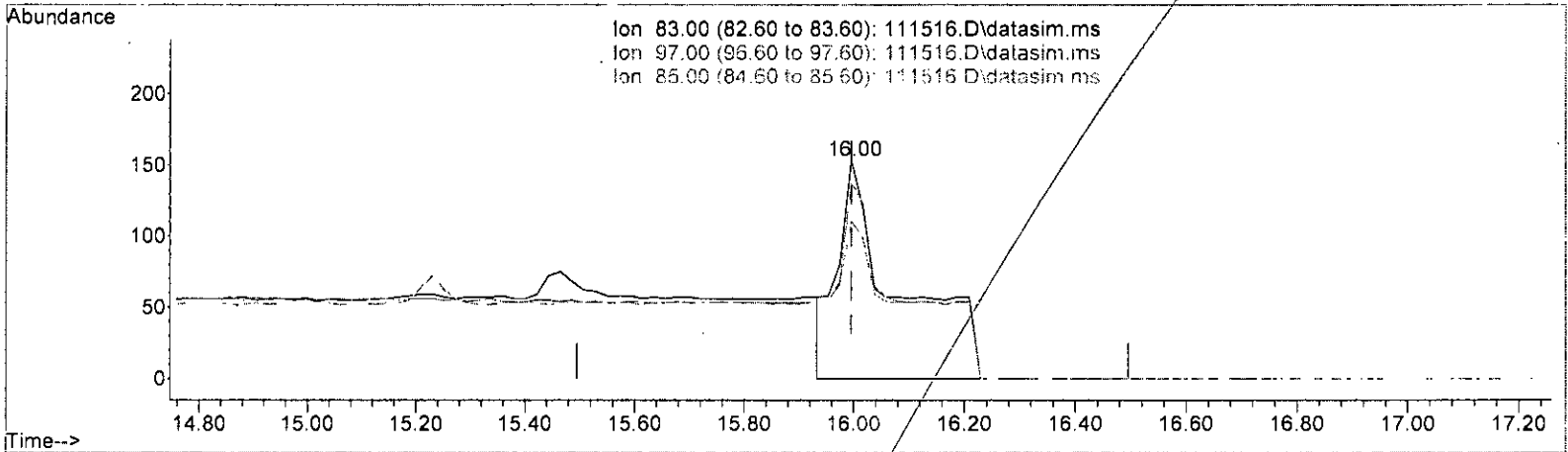
$R = 8.986e-001 A^2 + 5.966e-001 A + 2.531e-003$   
Coef of Det ( $r^2$ ) = 0.993302 Curve Fit: Quadratic w( $1/a^2$ )  
Method Name: D:\GCMS7 Methods\1115TO15ss7.M  
Calibration Table Last Updated: Fri Nov 18 12:30:32 2022



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111516.D\data.ms

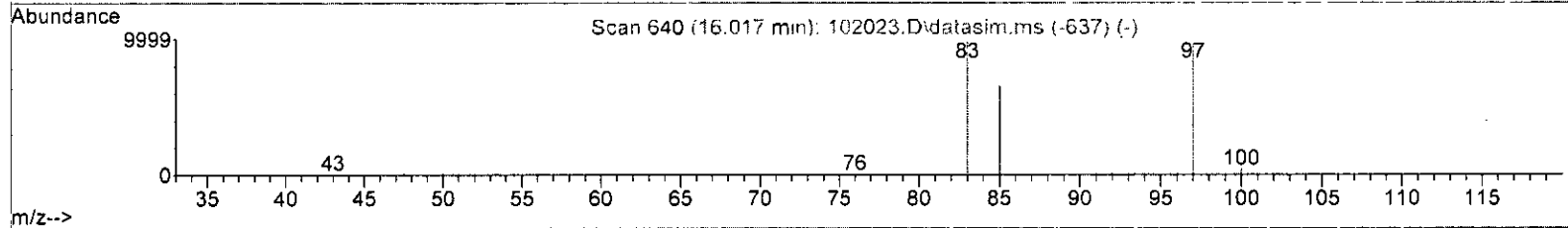
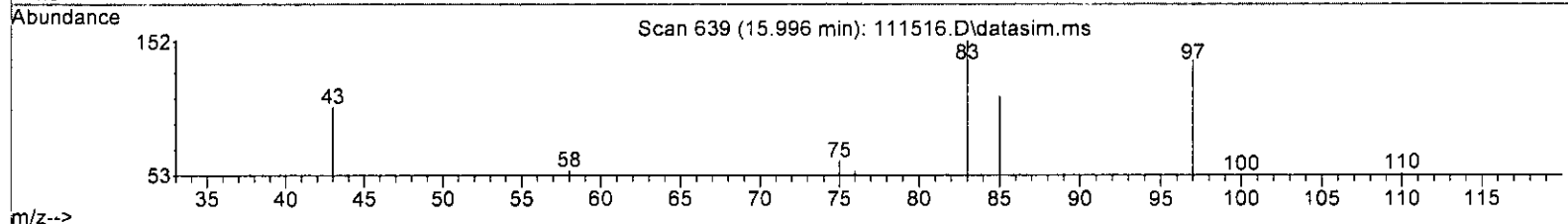
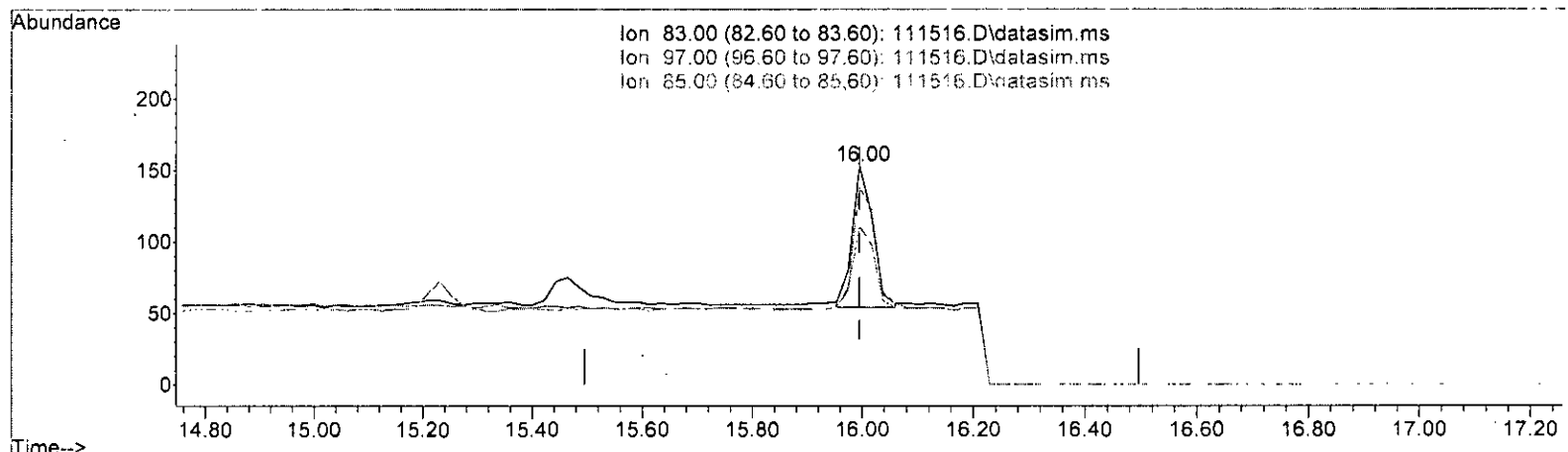
(51) 1,1,2-Trichloroethane (TME)		
15.996min (-0.000)	0.075 ppbv	
response	1204	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	90.20
85.00	60.50	72.55
0.00	0.00	0.00

*Handwritten signature: u/bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111516.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)			
15.996min	(-0.000)	0.012 ppbv	m
response	257		
Ion	Exp%	Act%	
83.00	100.00	100.00	
97.00	81.80	90.20	
85.00	60.50	72.55	
0.00	0.00	0.00	

*Handwritten signature: L. J. / 11/18/22*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	63553	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	284548	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.15	117	252181	10.000	ppbv	0.02

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	158274	9.056	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	90.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
2) Propene	0.00		0	N.D.	d		
3) Dichlorodifluoromethane	0.00		0	N.D.	d		
4) Chloromethane	0.00		0	N.D.	d		
5) F-114	0.00		0	N.D.	d		
6) Vinyl chloride	0.00		0	N.D.	d		
7) 1,3-Butadiene	0.00		0	N.D.	d		
8) Butane	0.00		0	N.D.	d		
9) Bromomethane	0.00		0	N.D.	d		
10) Chloroethane	0.00		0	N.D.	d		
11) Vinyl bromide	0.00		0	N.D.	d		
12) Ethanol	0.00		0	N.D.	d		
13) Acrolein	0.00		0	N.D.	d		
14) Pentane	0.00		0	N.D.	d		
15) Trichlorofluoromethane	0.00		0	N.D.	d		
16) Acetone	0.00		0	N.D.	d		
17) 2-Propanol	0.00		0	N.D.	d		
18) 1,1-Dichloroethene	0.00		0	N.D.	d		
19) trans-1,2-Dichloroethene	0.00		0	N.D.	d		
20) Methylene chloride	0.00		0	N.D.	d		
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d		
22) 3-Chloropropene	0.00		0	N.D.	d		
23) CFC-113	0.00		0	N.D.	d		
24) Carbon disulfide	0.00		0	N.D.	d		
25) Methyl t-butyl ether (...)	0.00		0	N.D.	d		
26) Vinyl acetate	0.00		0	N.D.	d		
27) 1,1-Dichloroethane	0.00		0	N.D.	d		
28) cis-1,2-Dichloroethene	0.00		0	N.D.	d		
29) Hexane	0.00		0	N.D.	d		
30] Chloroform	10.08	83	384	0.011	ppbv	88	
31) Ethyl acetate	0.00		0	N.D.	d		
32) Tetrahydrofuran	0.00		0	N.D.	d		
33) 2-Butanone (MEK)	0.00		0	N.D.	d		
34] 1,2-Dichloroethane (EDC)	11.34	62	260	0.012	ppbv	97	
35) 1,1,1-Trichloroethane	0.00		0	N.D.	d		
36) Carbon tetrachloride	0.00		0	N.D.	d		
37) Benzene	0.00		0	N.D.	d		
38) Cyclohexane	0.00		0	N.D.	d		
40) 1,2-Dichloropropane	0.00		0	N.D.	d		

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

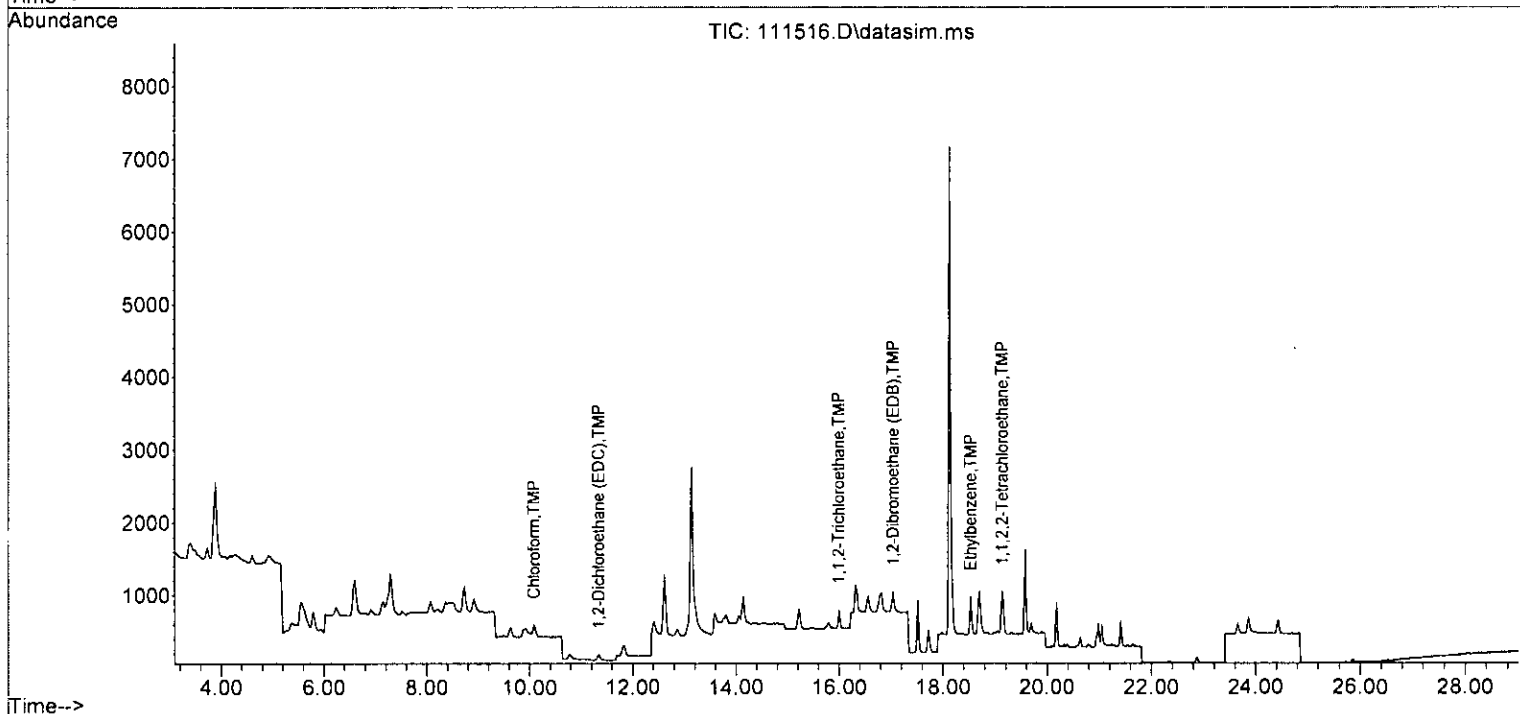
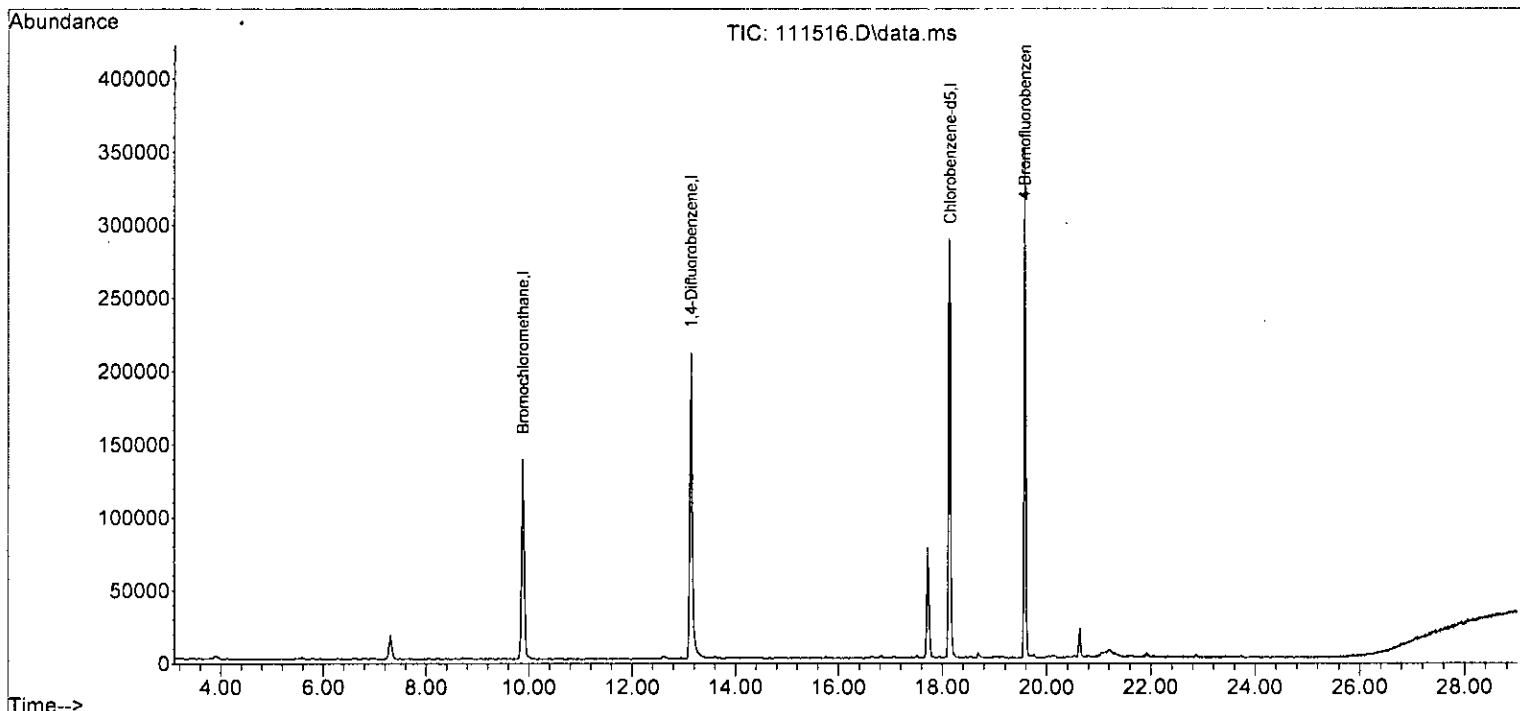
Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0	N.D.	d	
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45) Bromodichloromethane	0.00		0	N.D.	d	
46) Trichloroethene	0.00		0	N.D.	d	
47) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
48) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
49) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
50) Toluene	0.00		0	N.D.	d	
51] 1,1,2-Trichloroethane	16.00	83	257m	0.012	ppbv	
52) 2-Hexanone	0.00		0	N.D.	d	
53) Tetrachloroethene	0.00		0	N.D.	d	
54) Dibromochloromethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	361	0.010	ppbv	98
57) Chlorobenzene	0.00		0	N.D.	d	
58] Ethylbenzene	18.53	91	894	0.012	ppbv	97
59] 1,1,2,2-Tetrachloroethane	19.13	83	547	0.012	ppbv	94
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	0.00		0	N.D.	d	
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63) Propylbenzene	0.00		0	N.D.	d	
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65) m,p-Xylene	0.00		0	N.D.	d	
66) o-Xylene	0.00		0	N.D.	d	
67) Styrene	0.00		0	N.D.	d	
68) Bromoform	0.00		0	N.D.	d	
70) Benzyl chloride	20.95	91	269	N.D.	d	
71) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
72) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
73) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
74) 1,4-Dichlorobenzene	0.00		0	N.D.	d	
75) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
77) Naphthalene	0.00		0	N.D.	d	
78) Hexachlorobutadiene	0.00		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 AL5 Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	-1.000	0.000	0.0	0	-3.41#
3 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-3.48#
4 TMP Chloromethane	-1.000	0.000	0.0	0	-3.73#
5 TMP F-114	-1.000	0.000	0.0	0	-3.88#
6 TMP Vinyl chloride	-1.000	0.000	0.0	0	-4.09#
7 TMP 1,3-Butadiene	-1.000	0.000	0.0	0	-4.29#
8 TMP Butane	-1.000	0.000	0.0	0	-4.32#
9 TMP Bromomethane	-1.000	0.000	0.0	0	-4.60#
10 TMP Chloroethane	-1.000	0.000	0.0	0	-4.84#
11 TMP Vinyl bromide	-1.000	0.000	0.0	0	-5.32#
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.96#
13 TMP Acrolein	-1.000	0.000	0.0	0	-5.42#
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-5.84#
16 TMP Acetone	-1.000	0.000	0.0	0	-5.57#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	-1.000	0.000	0.0	0	-6.63#
19 TMP trans-1,2-Dichloroethene	-1.000	0.000	0.0	0	-8.10#
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.80#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	-1.000	0.000	0.0	0	-6.94#
23 TMP CFC-113	-1.000	0.000	0.0	0	-7.15#
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-8.43#
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.54#
27 TMP 1,1-Dichloroethane	-1.000	0.000	0.0	0	-8.36#
28 TMP cis-1,2-Dichloroethene	-1.000	0.000	0.0	0	-9.64#
29 TMP Hexane	-1.000	0.000	0.0	0	-10.01#
30 TMP Chloroform	0.010	0.011	-10.0	100	-0.02
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.92#
32 TMP Tetrahydrofuran	-1.000	0.000	0.0	0	-10.75#
33 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-8.91#
34 TMP 1,2-Dichloroethane (EDC)	0.010	0.012	-20.0	100	0.00
35 TMP 1,1,1-Trichloroethane	-1.000	0.000	0.0	0	-11.82#
36 TMP Carbon tetrachloride	-1.000	0.000	0.0	0	-12.86#
37 TMP Benzene	-1.000	0.000	0.0	0	-12.61#
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.07#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.010	0.000	100.0#	0	-13.80#
41 TMP 1,4-Dioxane	-1.000	0.000	0.0	0	-14.09#
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.24#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.56#
45 TMP Bromodichloromethane	0.010	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	0.010	0.000	100.0#	0	-14.14#
47 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.20#
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.23#
49 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.78#
50 TMP Toluene	-1.000	0.000	0.0	0	-16.31#
51 TMP 1,1,2-Trichloroethane	0.010	0.012	-20.0	101	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	-1.000	0.000	0.0	0	-17.52#
54 TMP Dibromochloromethane	0.010	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.010	0.010	0.0	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.02
57 TMP Chlorobenzene	-1.000	0.000	0.0	0	-18.19#
58 TMP Ethylbenzene	0.010	0.012	-20.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.010	0.012	-20.0	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.30#
61 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-19.70#
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	-1.000	0.000	0.0	0	-20.19#
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.32#
65 TMP m,p-Xylene	-1.000	0.000	0.0	0	-18.70#
66 TMP o-Xylene	-1.000	0.000	0.0	0	-19.15#
67 TMP Styrene	-1.000	0.000	0.0	0	-19.05#
68 TMP Bromoform	-1.000	0.000	0.0	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.056	9.4	100	0.00
70 TMP Benzyl chloride	0.010	0.010	0.0	100	0.00
71 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-20.39#
72 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-20.80#
73 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-20.98#
74 TMP 1,4-Dichlorobenzene	-1.000	0.000	0.0	0	-21.05#
75 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-21.41#
76 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-23.64#
77 TMP Naphthalene	-1.000	0.000	0.0	0	-23.84#
78 TMP Hexachlorobutadiene	-1.000	0.000	0.0	0	-24.44#

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	0.000	100.0#	0#	-3.41#
3 TMP Dichlorodifluoromethane	4.123	0.000#	100.0#	0#	-3.48#
4 TMP Chloromethane	1.882	0.000#	100.0#	0#	-3.73#
5 TMP F-114	4.217	0.000	100.0#	0#	-3.88#
6 TMP Vinyl chloride	1.851	0.000#	100.0#	0#	-4.09#
7 TMP 1,3-Butadiene	1.216	0.000	100.0#	0#	-4.29#
8 TMP Butane	2.183	0.000	100.0#	0#	-4.32#
9 TMP Bromomethane	1.847	0.000#	100.0#	0#	-4.60#
10 TMP Chloroethane	0.655	0.000#	100.0#	0#	-4.84#
11 TMP Vinyl bromide	1.609	0.000	100.0#	0#	-5.32#
12 TMP Ethanol	0.663	0.000	100.0#	0#	-4.96#
13 TMP Acrolein	0.729	0.000	100.0#	0#	-5.42#
14 TMP Pentane	2.461	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.781	0.000#	100.0#	0#	-5.84#
16 TMP Acetone	0.710	0.000#	100.0#	0#	-5.57#
17 TMP 2-Propanol	3.096	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.645	0.000#	100.0#	0#	-6.63#
19 TMP trans-1,2-Dichloroethene	1.598	0.000	100.0#	0#	-8.10#
20 TMP Methylene chloride	1.479	0.000#	100.0#	0#	-6.80#
21 TMP t-Butyl alcohol (TBA)	2.668	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.056	0.000	100.0#	0#	-6.94#
23 TMP CFC-113	3.469	0.000	100.0#	0#	-7.15#
24 TMP Carbon disulfide	5.167	0.000	100.0#	0#	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	3.434	0.000#	100.0#	0#	-8.43#
26 TMP Vinyl acetate	3.801	0.000#	100.0#	0#	-8.54#
27 TMP 1,1-Dichloroethane	3.342	0.000#	100.0#	0#	-8.36#
28 TMP cis-1,2-Dichloroethene	1.690	0.000#	100.0#	0#	-9.64#
29 TMP Hexane	2.068	0.000	100.0#	0#	-10.01#
30 TMP Chloroform	4.060	6.042	-48.8#	100	-0.02
31 TMP Ethyl acetate	3.789	0.000	100.0#	0#	-9.92#
32 TMP Tetrahydrofuran	1.809	0.000	100.0#	0#	-10.75#
33 TMP 2-Butanone (MEK)	0.619	0.000	100.0#	0#	-8.91#
34 TMP 1,2-Dichloroethane (EDC)	2.687	4.091	-52.3#	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	0.000#	100.0#	0#	-11.82#
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	0.000#	100.0#	0#	-12.61#
38 TMP Cyclohexane	1.367	0.000	100.0#	0#	-13.07#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.000	100.0#	0#	-13.80#
41 TMP 1,4-Dioxane	0.230	0.000	100.0#	0#	-14.09#
42 TMP 2,2,4-Trimethylpentane	1.598	0.000	100.0#	0#	-14.24#
43 TMP Methyl methacrylate	0.485	0.000	100.0#	0#	-14.36#



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111516.D  
 Acq On : 16 Nov 2022 3:43 am  
 Operator : bat  
 Sample : 0.01 ppbv 67-196e  
 Misc : T3, 125cc of 0.02ppbv  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:41:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.000	100.0#	0#	-14.56#
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.000	100.0#	0#	-14.14#
47 TMP cis-1,3-Dichloropropene	0.599	0.000	100.0#	0#	-15.20#
48 TMP 4-Methyl-2-pentanone	0.044	0.000	100.0#	0#	-15.23#
49 TMP trans-1,3-Dichloropropene	0.563	0.000	100.0#	0#	-15.78#
50 TMP Toluene	0.707	0.000	100.0#	0#	-16.31#
51 TMP 1,1,2-Trichloroethane	0.550	0.903	-64.2#	101	0.00
52 TMP 2-Hexanone	0.846	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.490	0.000#	100.0#	0#	-17.52#
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	1.269	-54.0#	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.02
57 TMP Chlorobenzene	1.101	0.000#	100.0#	0#	-18.19#
58 TMP Ethylbenzene	1.968	3.545	-80.1#	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	2.169	-55.6#	100	0.00
60 TMP Nonane	0.981	0.000	100.0#	0#	-19.30#
61 TMP Isopropylbenzene	1.792	0.000	100.0#	0#	-19.70#
62 TMP 2-Chlorotoluene	0.448	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.292	0.000	100.0#	0#	-20.19#
64 TMP 4-Ethyltoluene	1.611	0.000	100.0#	0#	-20.32#
65 TMP m,p-Xylene	0.633	0.000#	100.0#	0#	-18.70#
66 TMP o-Xylene	0.615	0.000#	100.0#	0#	-19.15#
67 TMP Styrene	0.819	0.000#	100.0#	0#	-19.05#
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.628	9.4	100	0.00
70 TMP Benzyl chloride	0.987	1.067	-8.1	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	0.000	100.0#	0#	-20.39#
72 TMP 1,2,4-Trimethylbenzene	1.247	0.000	100.0#	0#	-20.80#
73 TMP 1,3-Dichlorobenzene	1.012	0.000	100.0#	0#	-20.98#
74 TMP 1,4-Dichlorobenzene	0.947	0.000	100.0#	0#	-21.05#
75 TMP 1,2-Dichlorobenzene	1.024	0.000	100.0#	0#	-21.41#
76 TMP 1,2,4-Trichlorobenzene	0.626	0.000	100.0#	0#	-23.64#
77 TMP Naphthalene	1.132	0.000	100.0#	0#	-23.84#
78 TMP Hexachlorobutadiene	1.045	0.000	100.0#	0#	-24.44#

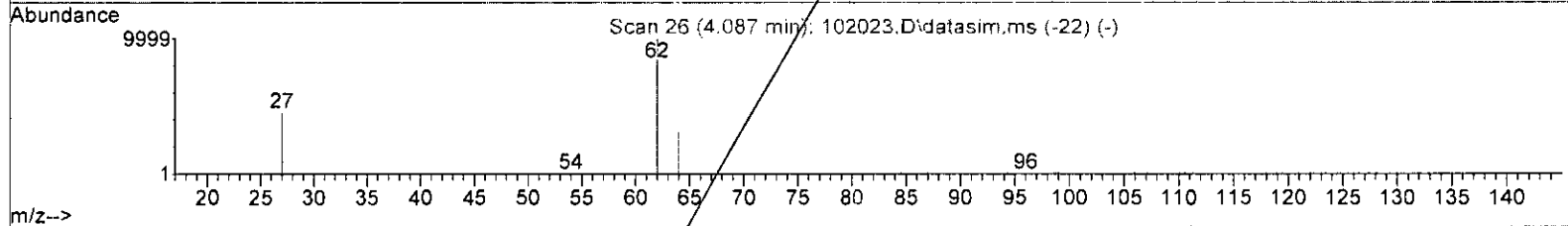
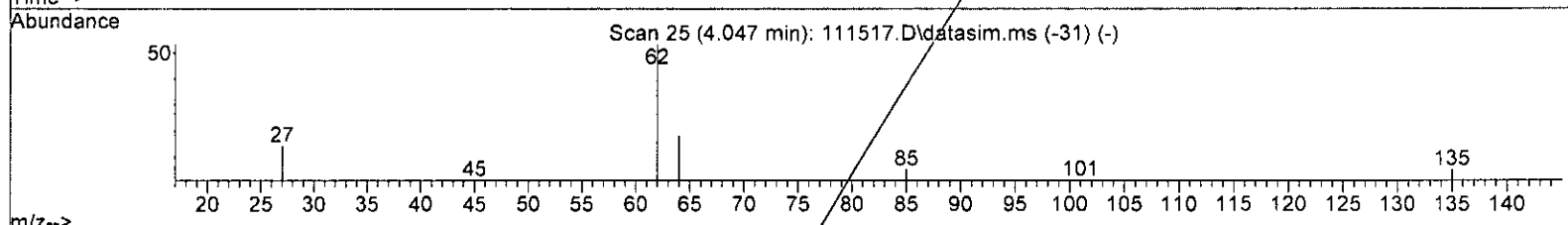
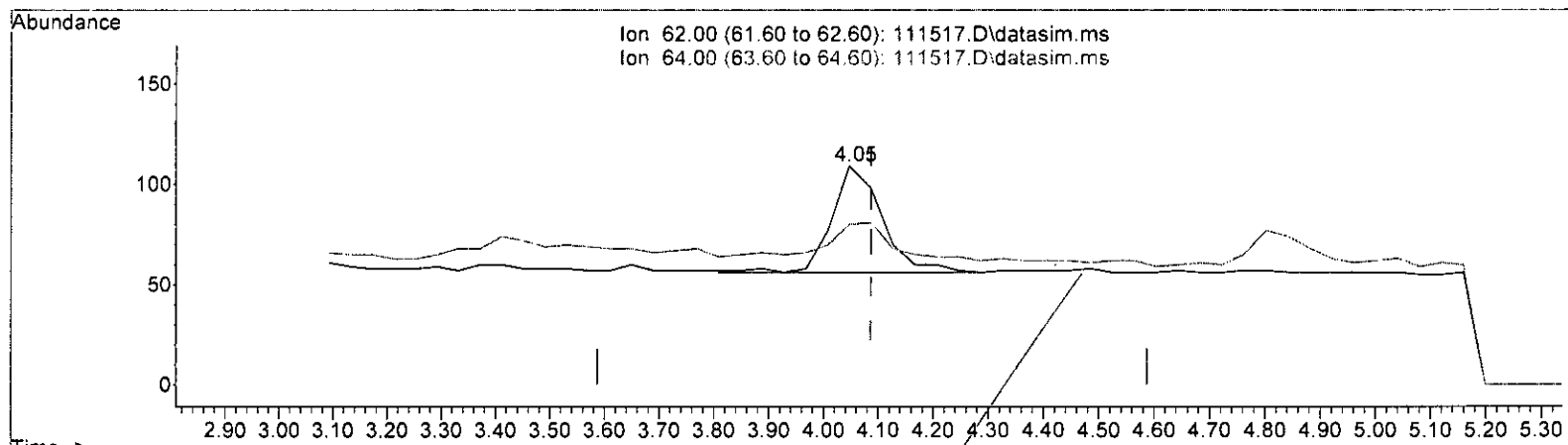
(#) = Out of Range

SPCC's out = 25 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

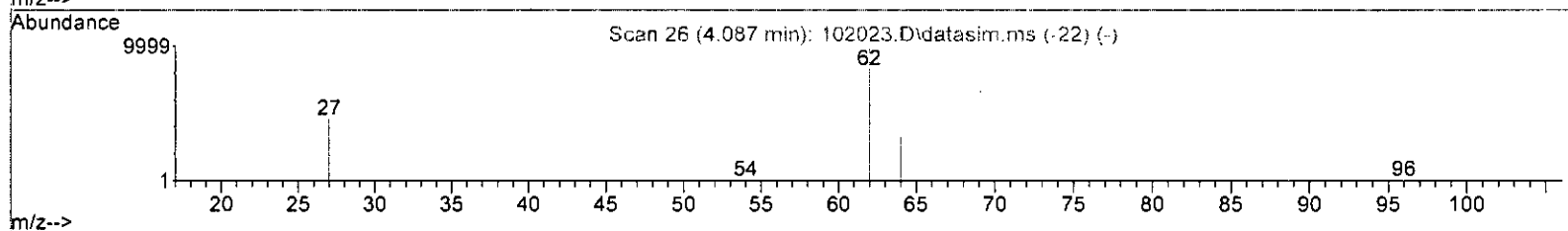
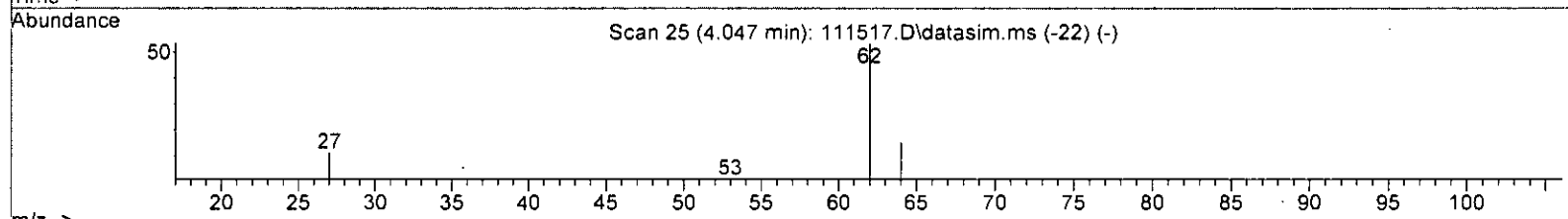
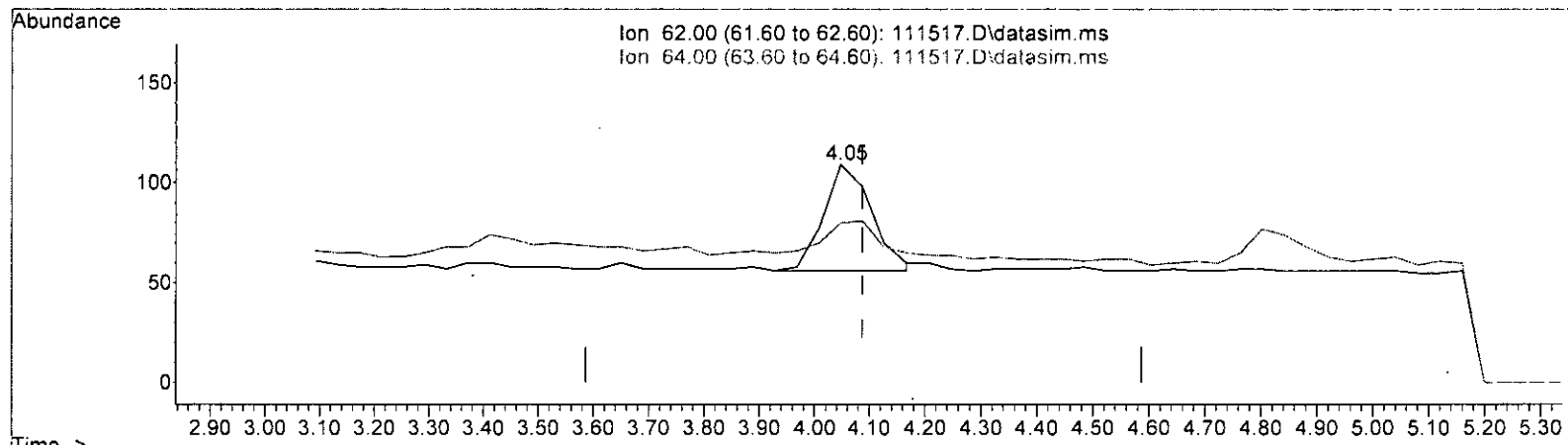
(6) Vinyl chloride (TMP)		
4.047min (-0.040)	0.030 ppbv	
response	343	
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	31.50	33.96
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: W/12/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO1SDC.M



TIC: 111517.D\data.ms

(6) Vinyl chloride (TMP)  
 4.047min (-0.040) 0.028 ppbv m  
 response 324

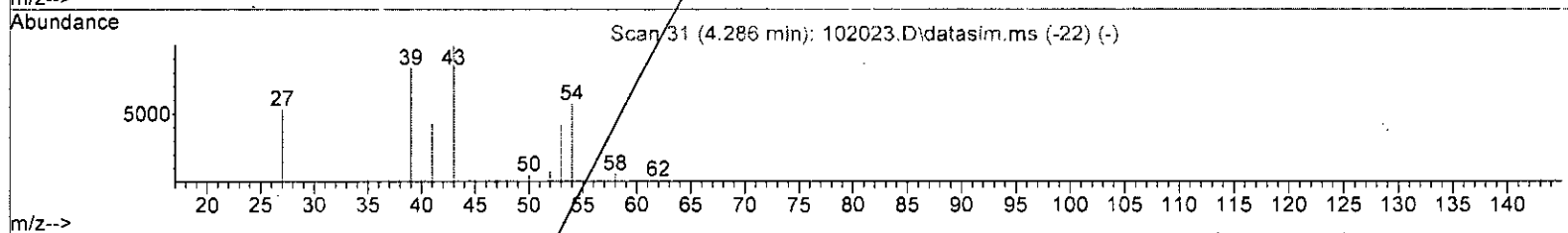
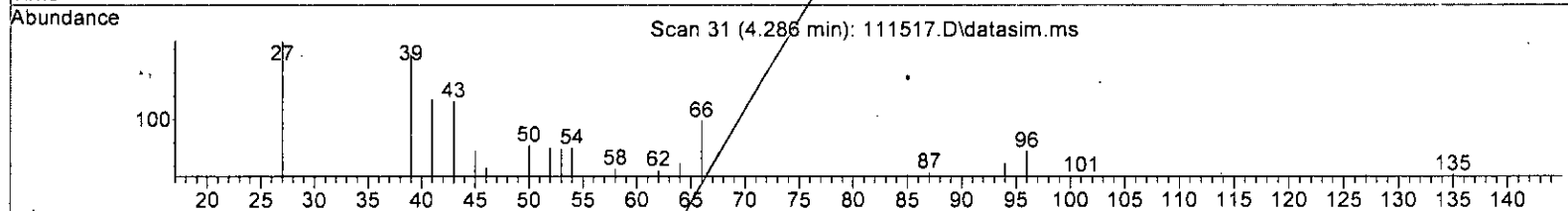
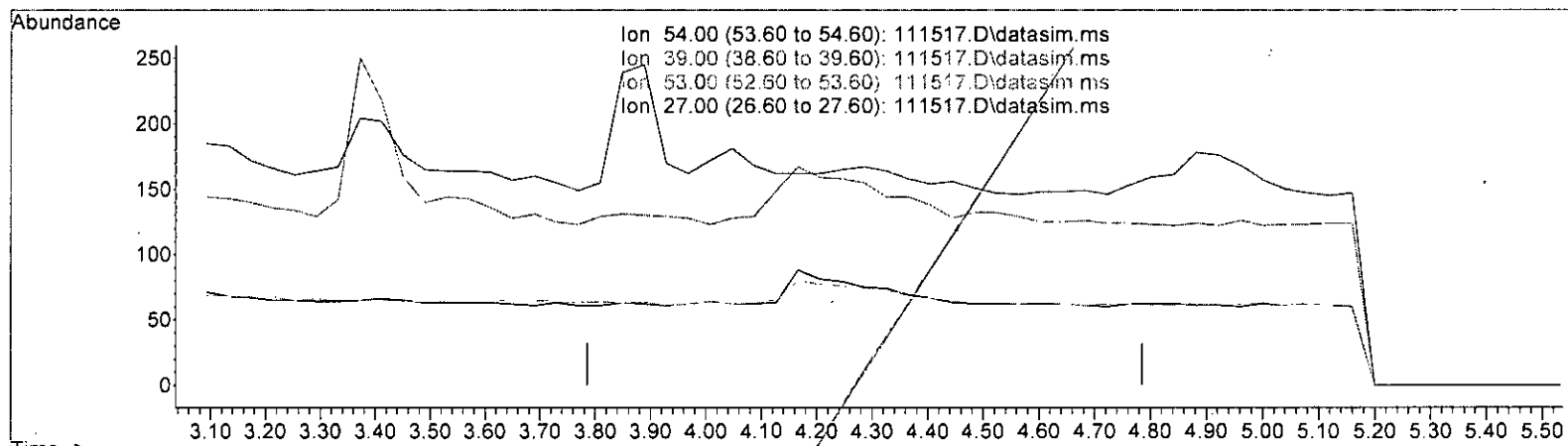
Ion	Exp%	Act%
62.00	100.00	100.00
64.00	31.50	73.39#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(7) 1,3-Butadiene (TMP)

4.286min (-4.286) 0.000 ppbv

response 0

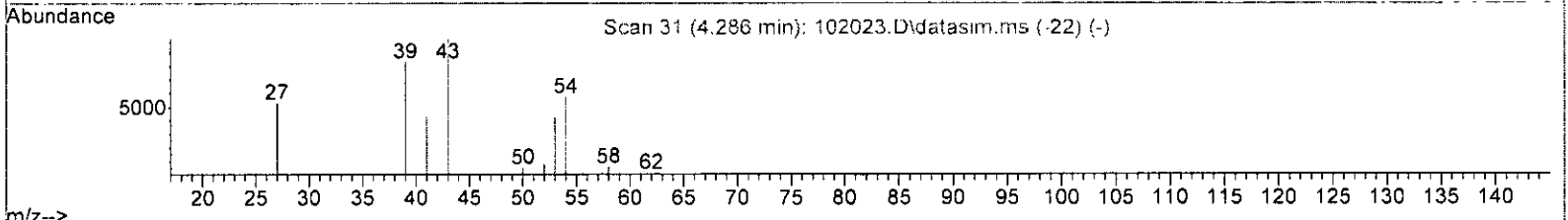
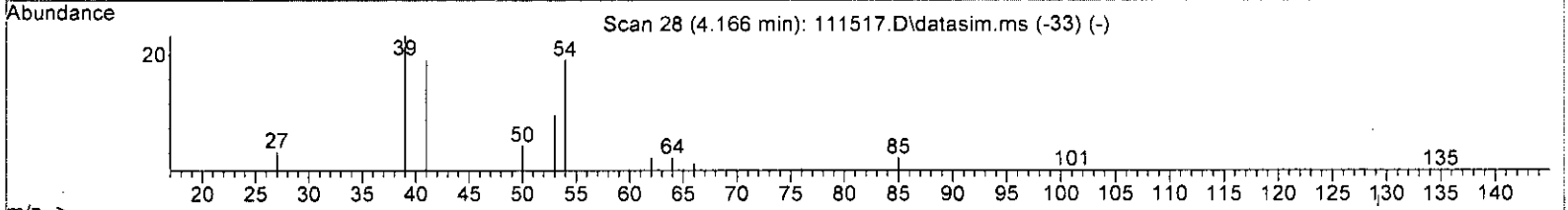
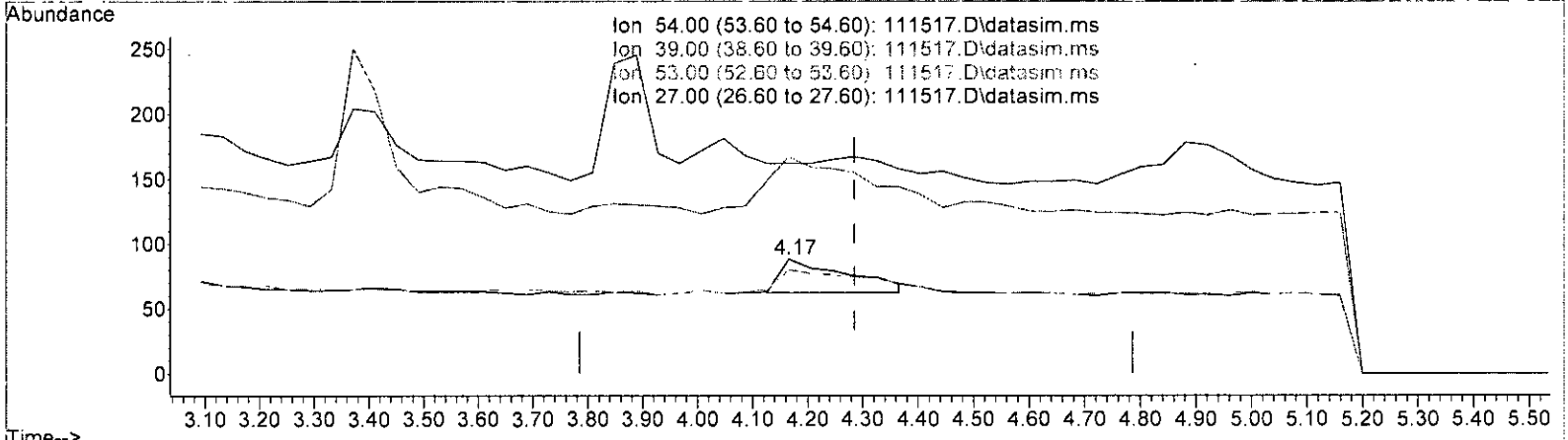
Ion	Exp%	Act%
54.00	100.00	0.00
39.00	127.60	0.00#
53.00	72.40	0.00#
27.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(7) 1,3-Butadiene (TMP)

4.166min (-0.120) 0.029 ppbv m

response 224

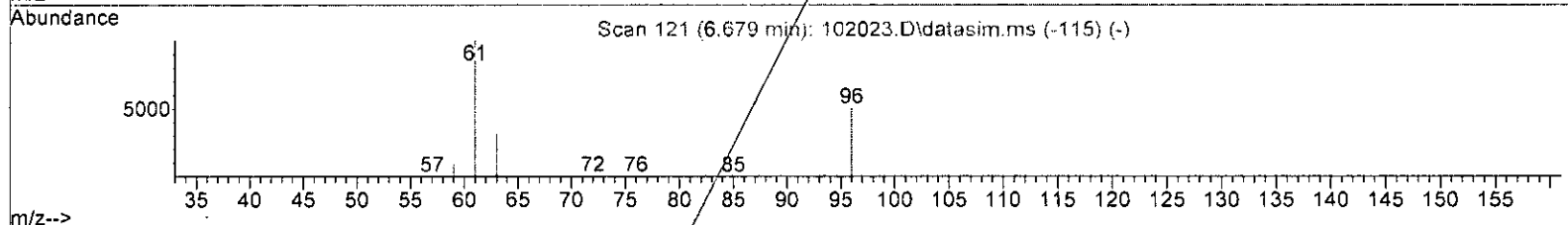
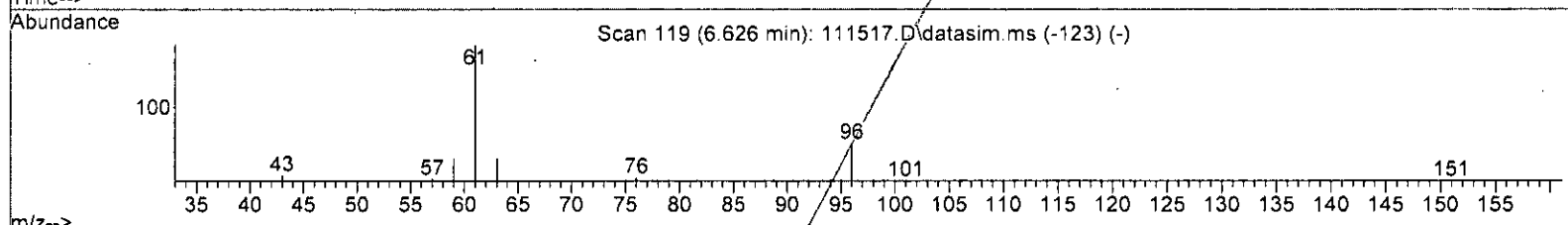
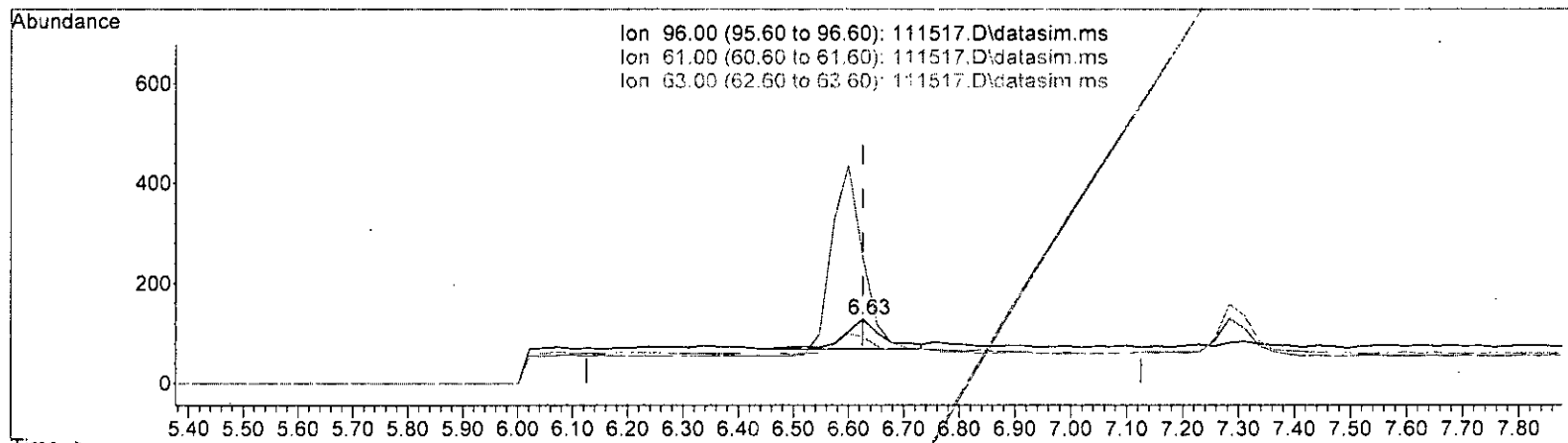
Ion	Exp%	Act%
54.00	100.00	100.00
39.00	127.60	189.77#
53.00	72.40	90.91
27.00	0.00	184.09#

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

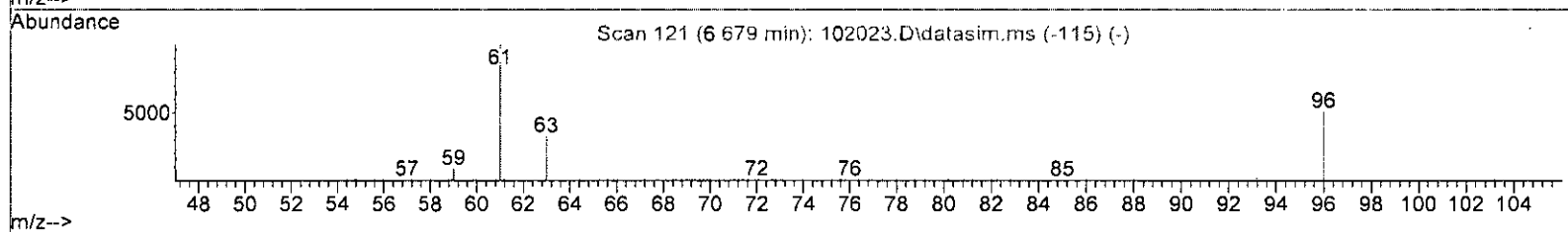
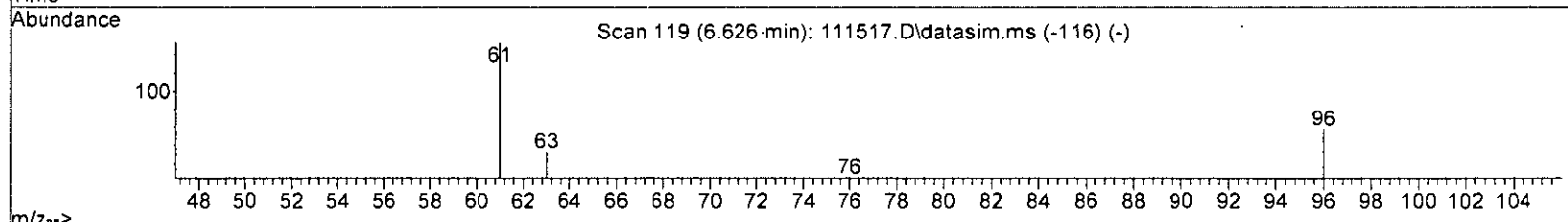
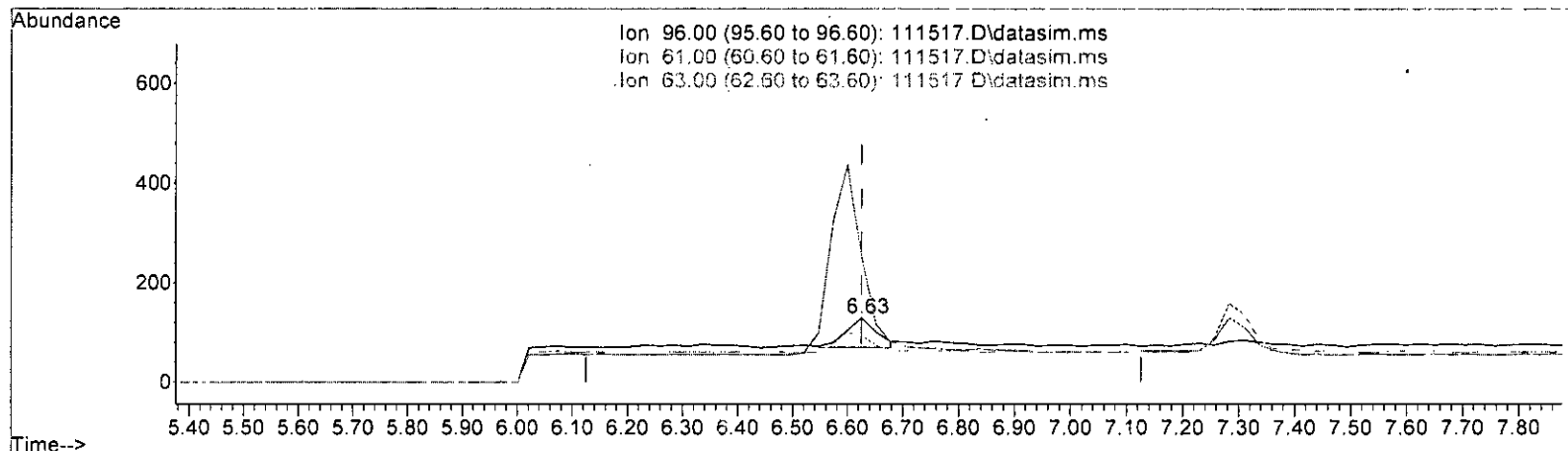
(18) 1,1-Dichloroethene (TMP)		
6.626min (+ 0.000)	0.028 ppbv	
response	293	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	189.00	328.33#
63.00	62.00	53.33
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

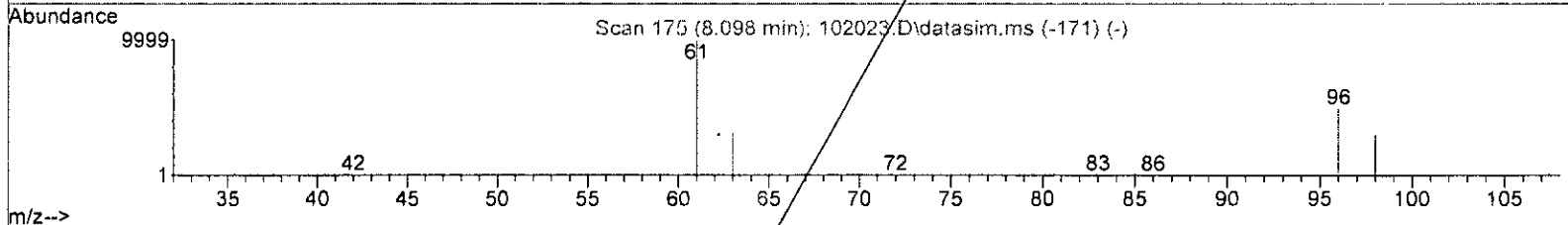
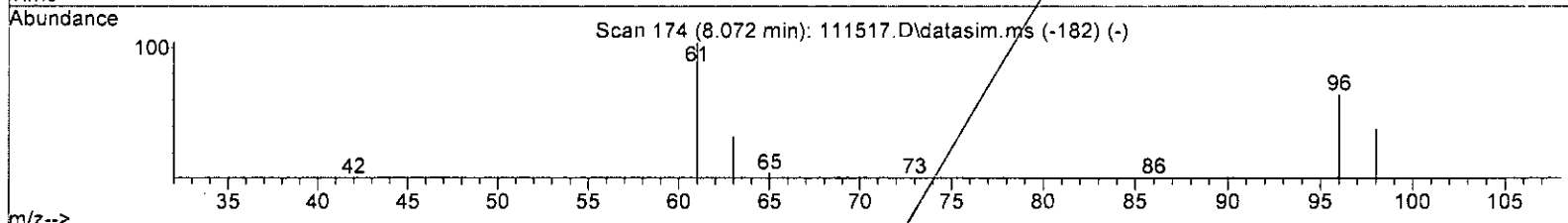
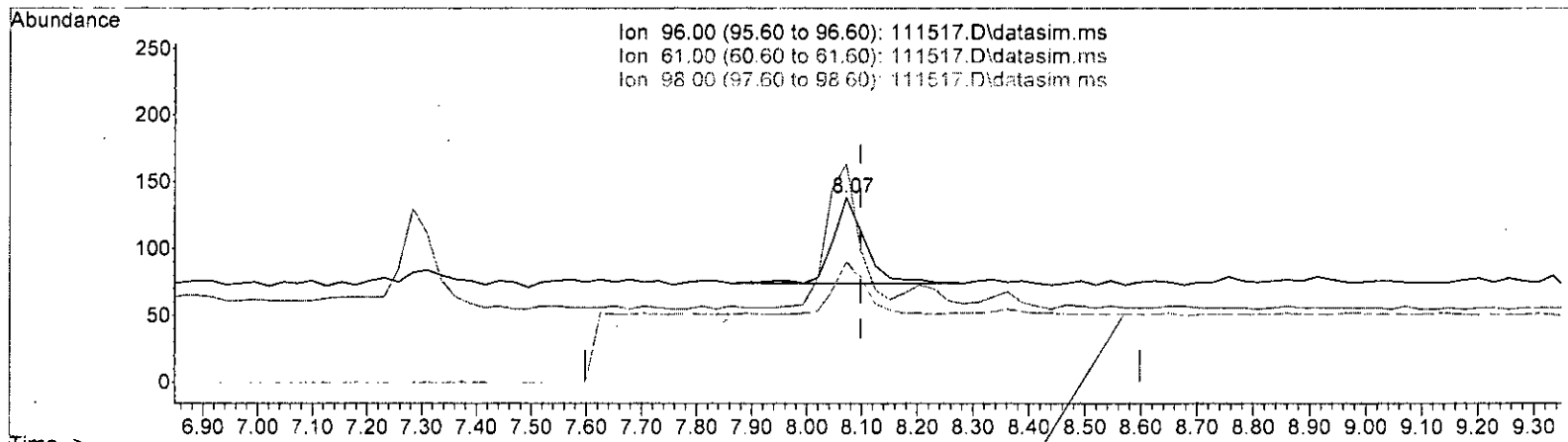
(18) 1,1-Dichloroethene (TMP)		
6.626min (+ 0.000)	0.022 ppbv m	
response	230	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	189.00	196.12
63.00	62.00	72.87
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(19) trans-1,2-Dichloroethene (TMP)  
 8.072min (-0.026) 0.027 ppbv  
 response 266

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	177.90	165.63
98.00	64.20	60.94
0.00	0.00	0.00

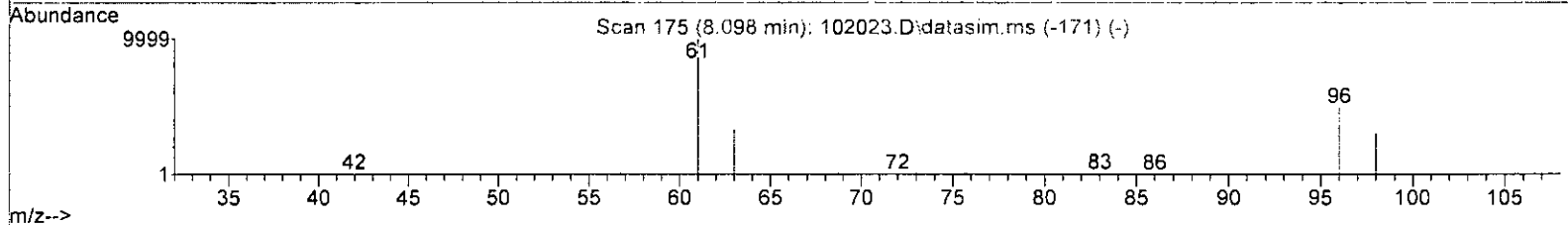
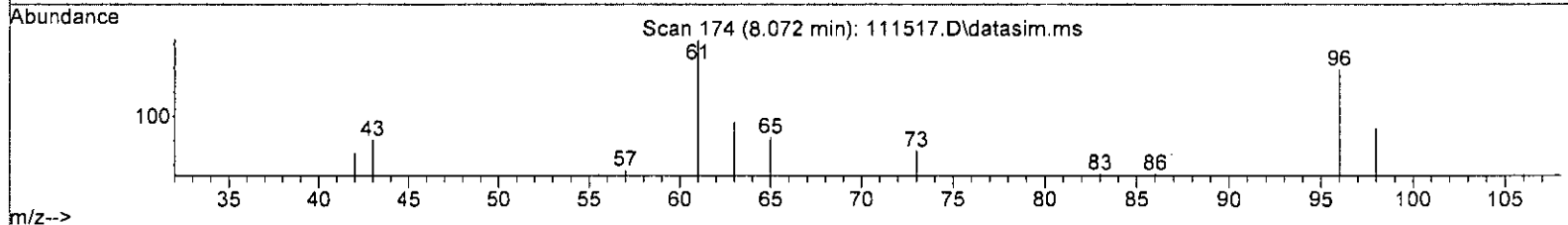
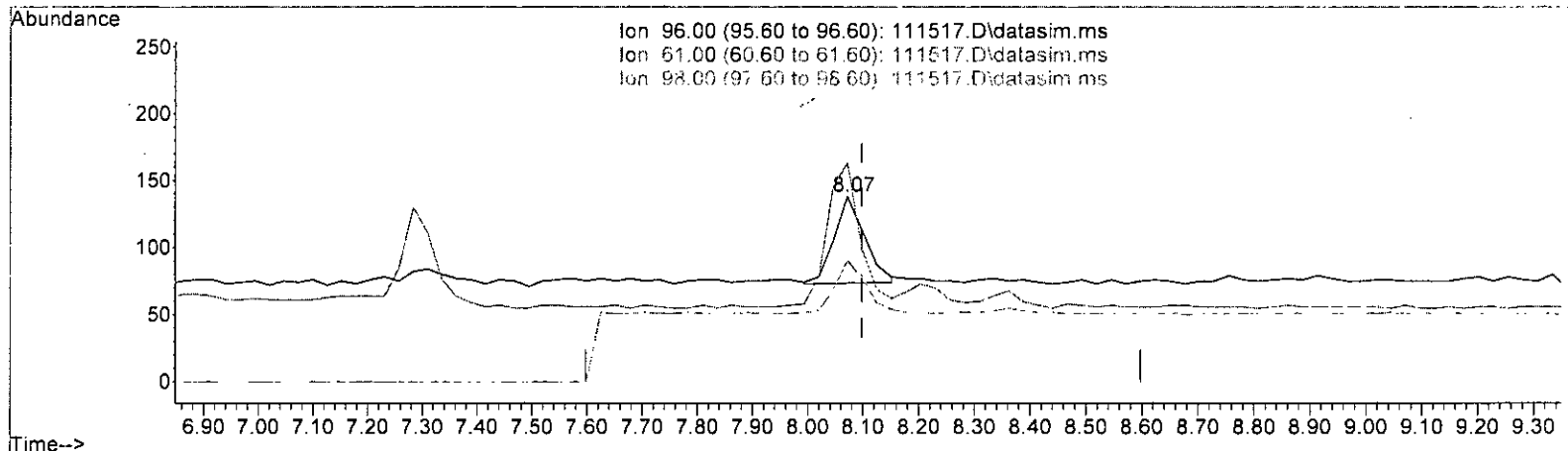
*Handwritten signature and date: 11/18/22*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(19) trans-1,2-Dichloroethene (TMP)

8.072min (-0.026) 0.025 ppbv m

response 249

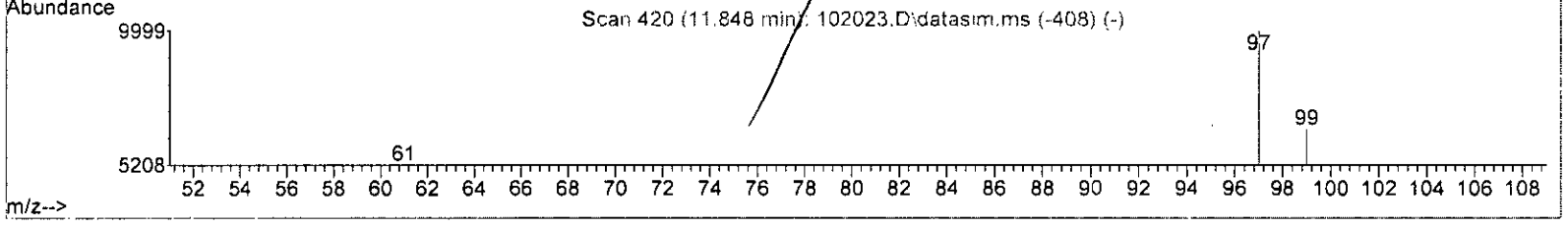
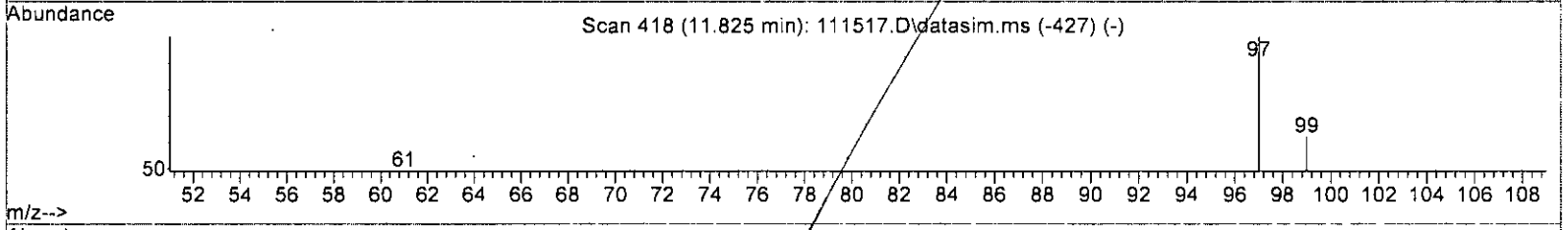
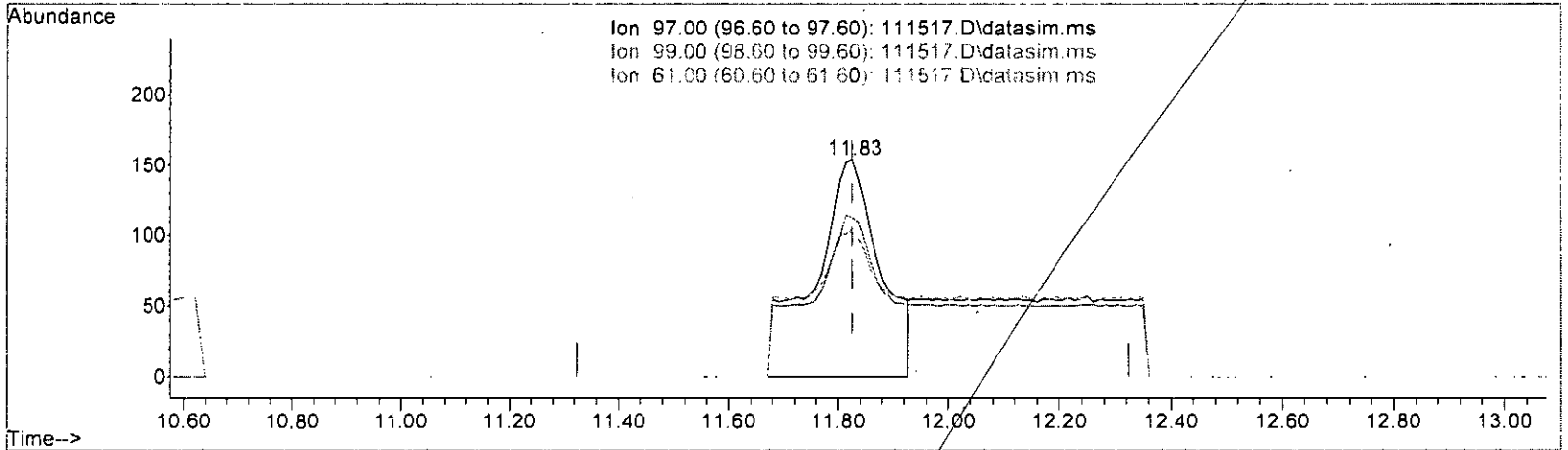
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	177.90	118.12#
98.00	64.20	65.22
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 0.061 ppbv

response 1267

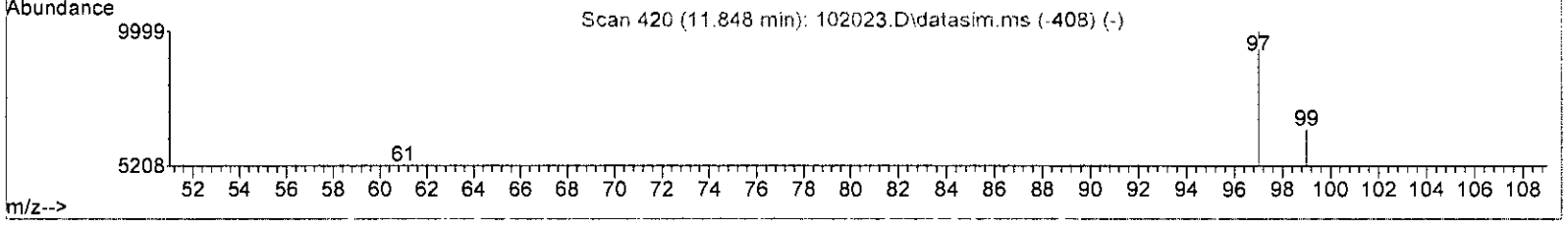
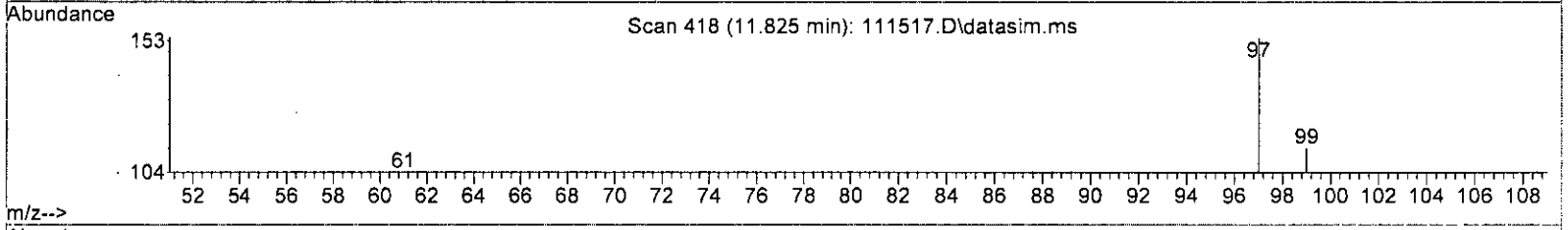
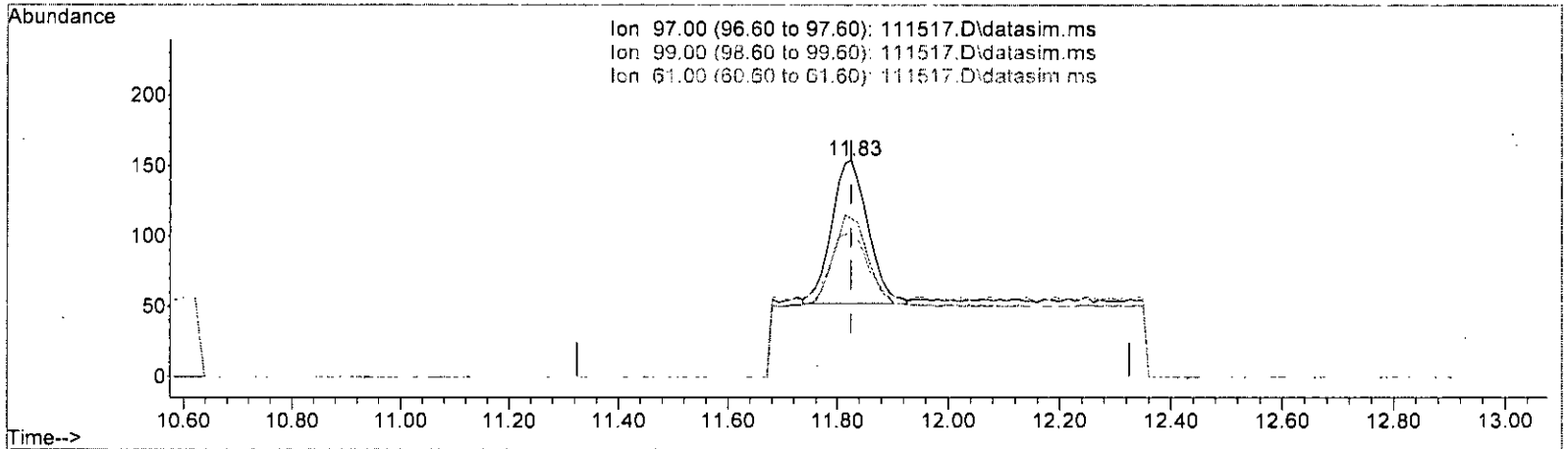
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	73.38
61.00	49.30	67.53
0.00	0.00	0.00

*Handwritten signature and date: 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 0.023 ppbv m

response 472

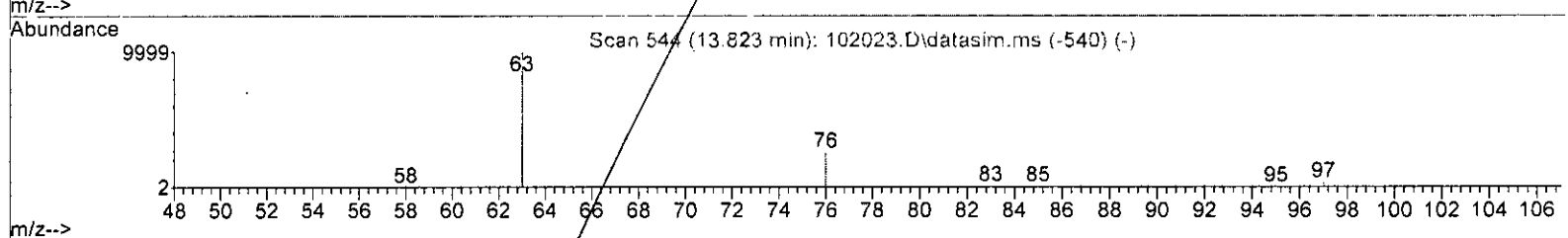
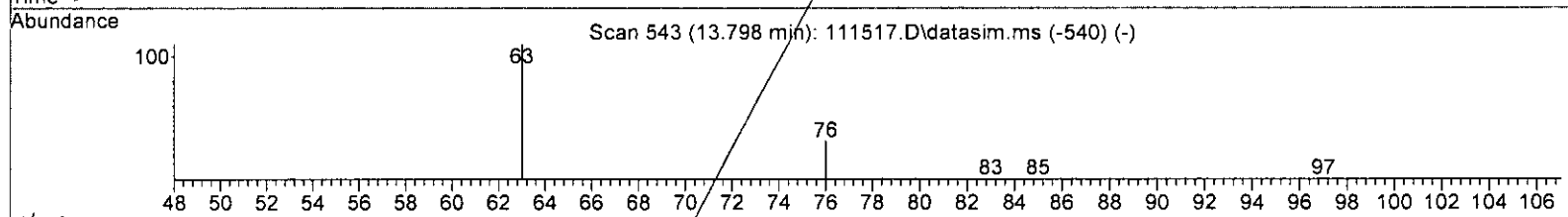
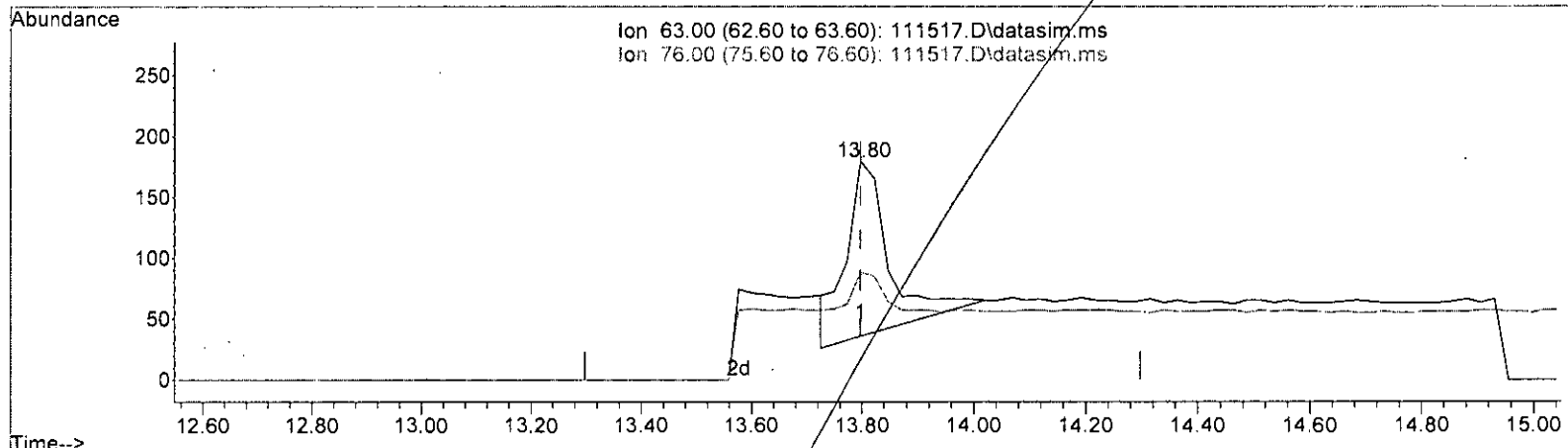
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	73.38
61.00	49.30	67.53
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

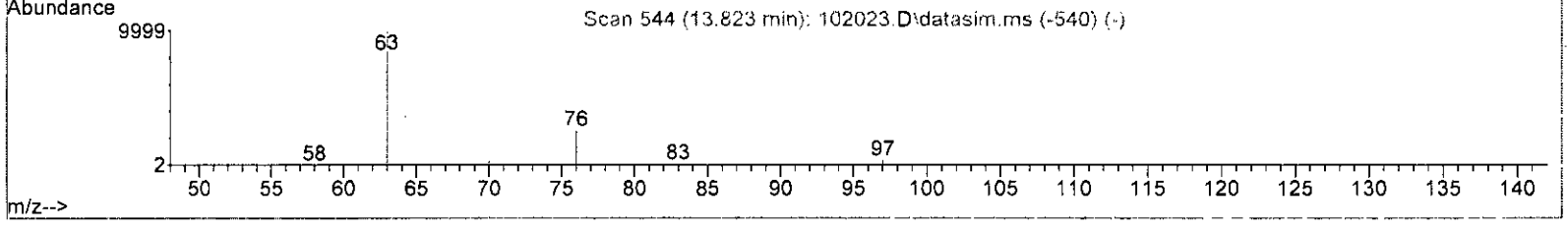
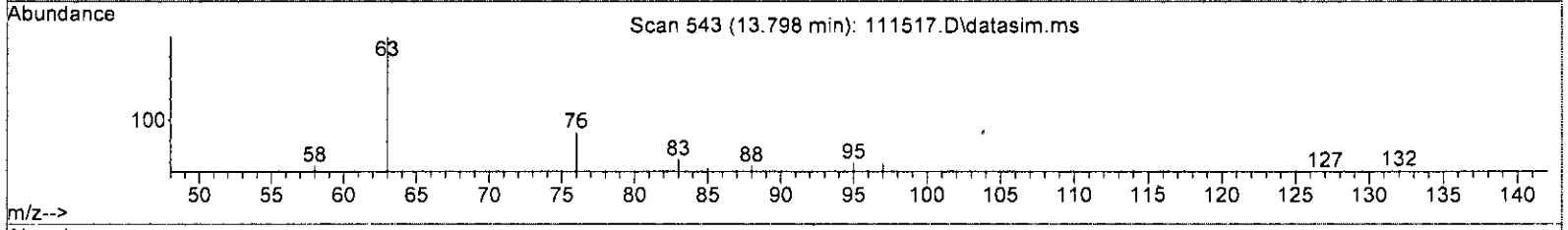
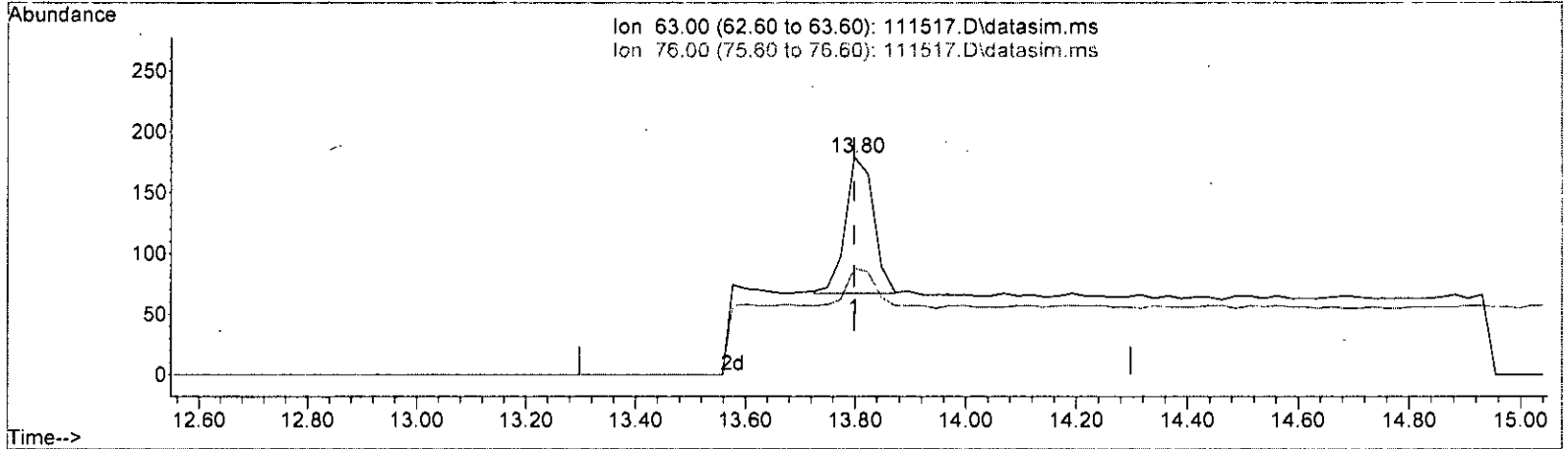
(40)	1,2-Dichloropropane (TMP)	
	13.798min (+ 0.000)	0.050 ppbv
response	771	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	28.07
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature and date: 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.798min (+ 0.000) 0.026 ppbv m

response 396

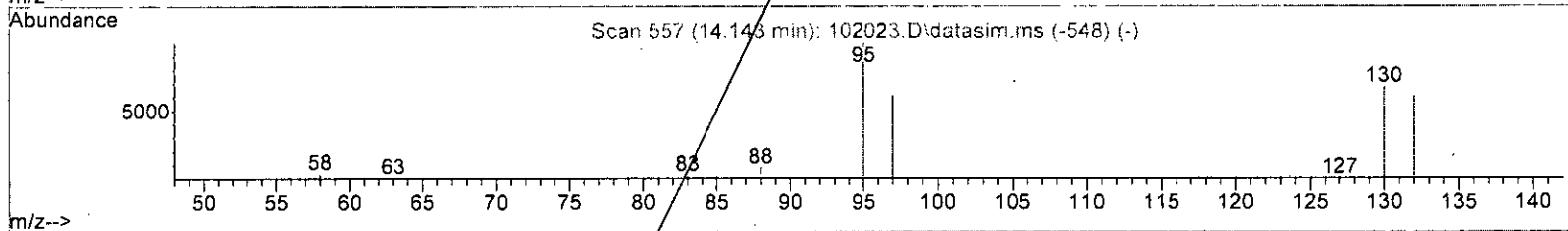
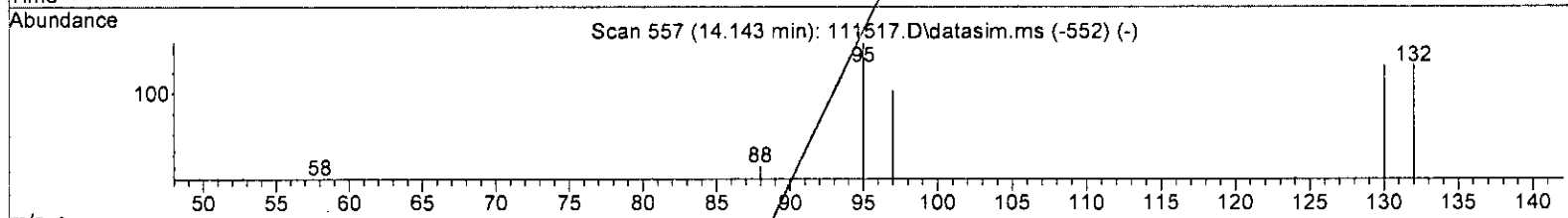
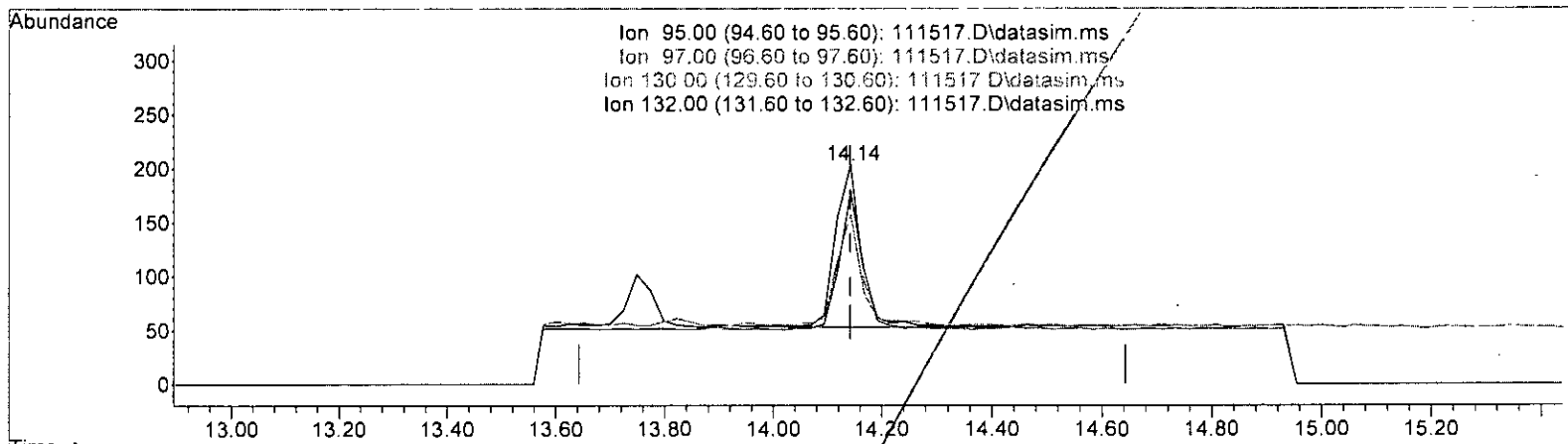
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	49.16
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: W/ 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(46) Trichloroethene (TMP)

14.143min (-0.000) 0.029 ppbv

response 498

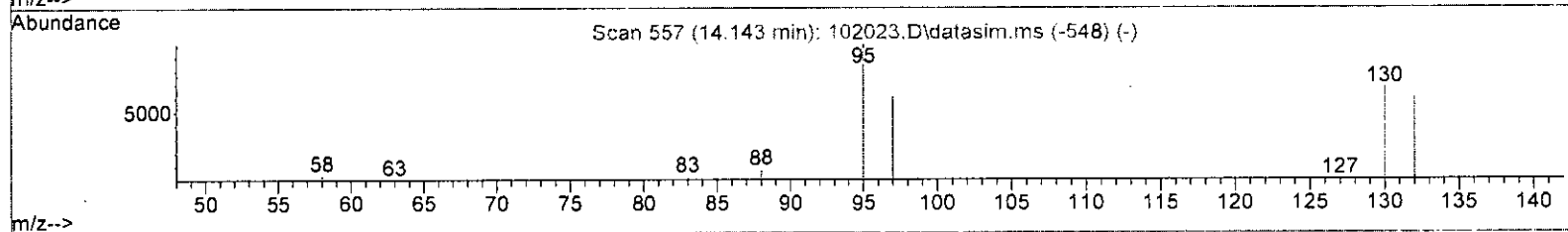
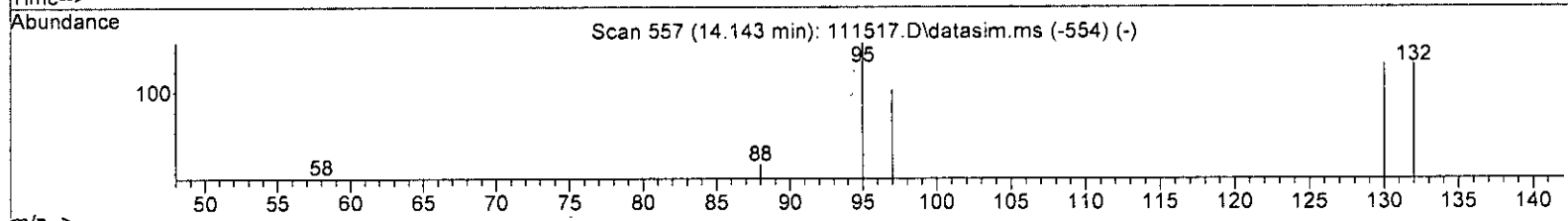
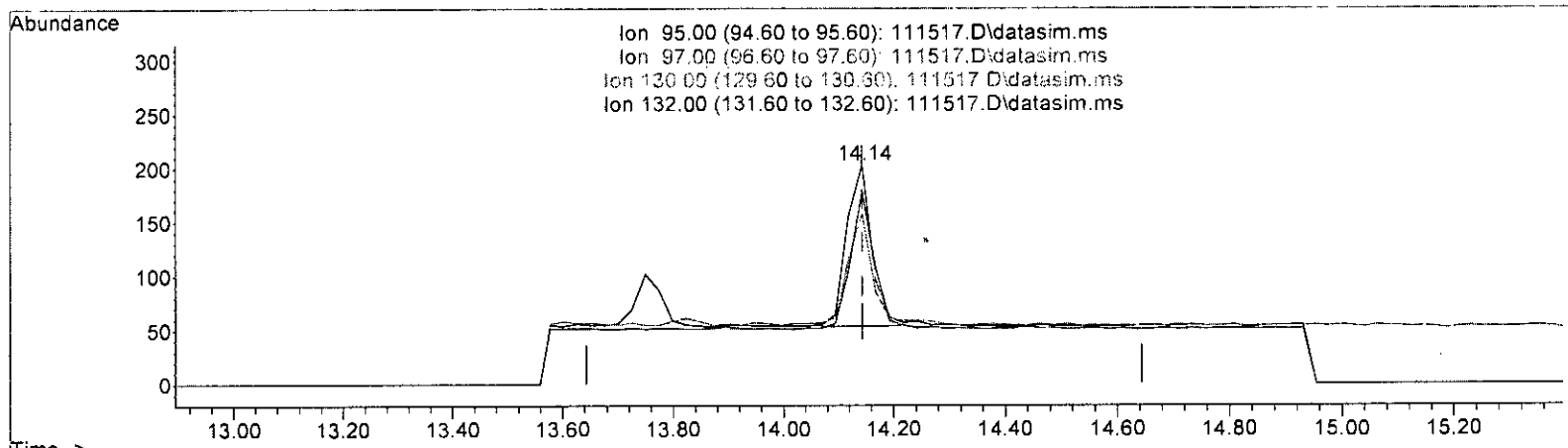
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	67.10	68.67
130.00	86.10	84.67
132.00	84.30	85.33

*Handwritten signature: M/11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(46) Trichloroethene (TMP)

14.143min (-0.000) 0.028 ppbv m

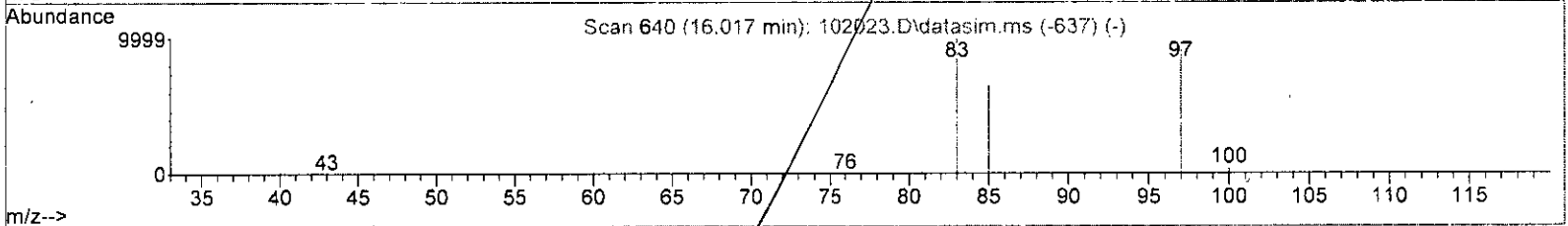
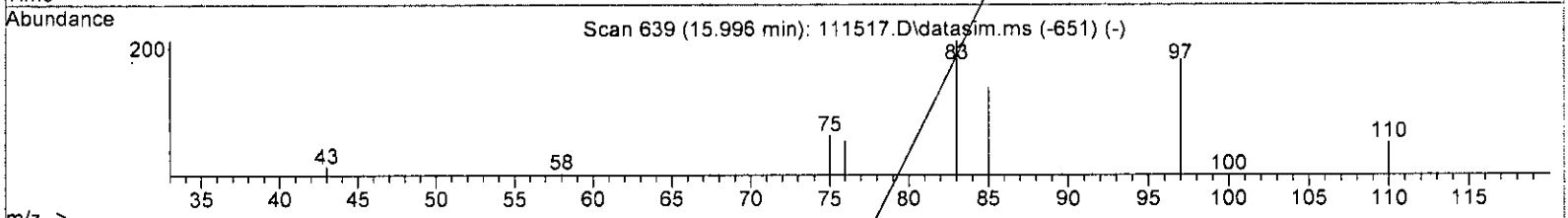
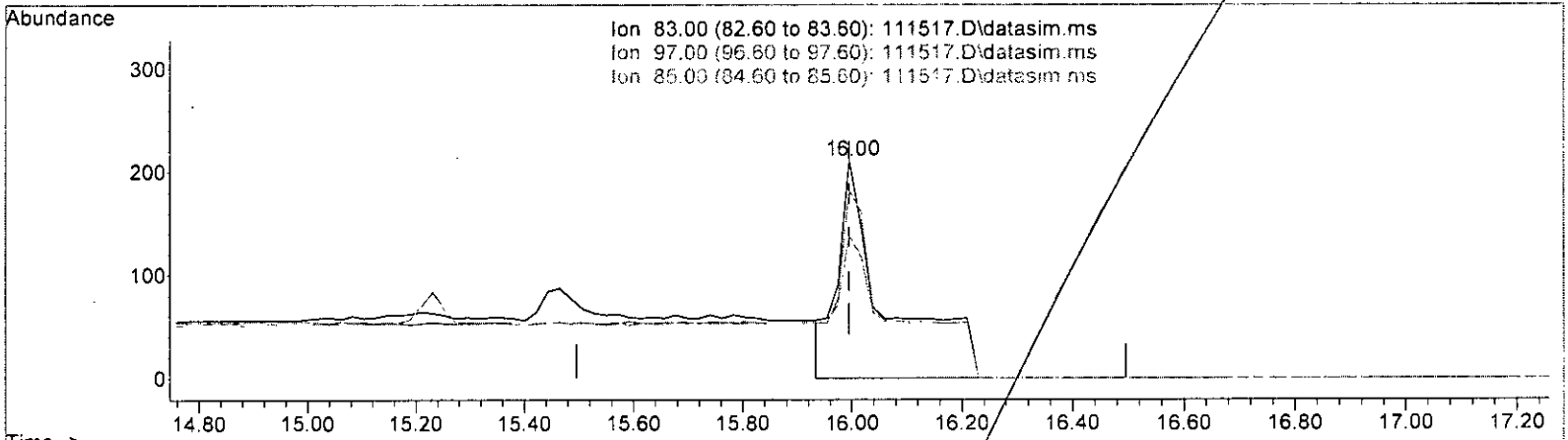
response	467	
Ion	Exp%	Act%
95.00	100.00	100.00
97.00	67.10	77.83
130.00	86.10	87.19
132.00	84.30	88.18

*Handwritten signature and date: 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)

15.996min (-0.000) 0.084 ppbv

response	1344		
Ion	Exp%	Act%	
83.00	100.00	100.00	
97.00	81.80	86.26	
85.00	60.50	65.40	
0.00	0.00	0.00	

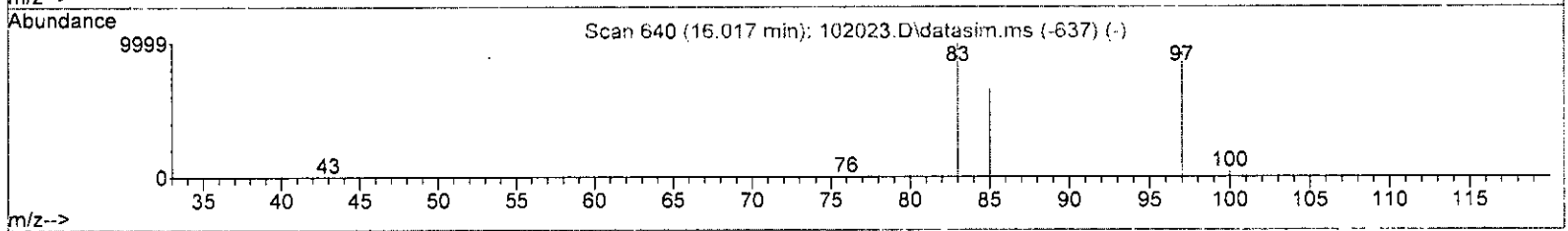
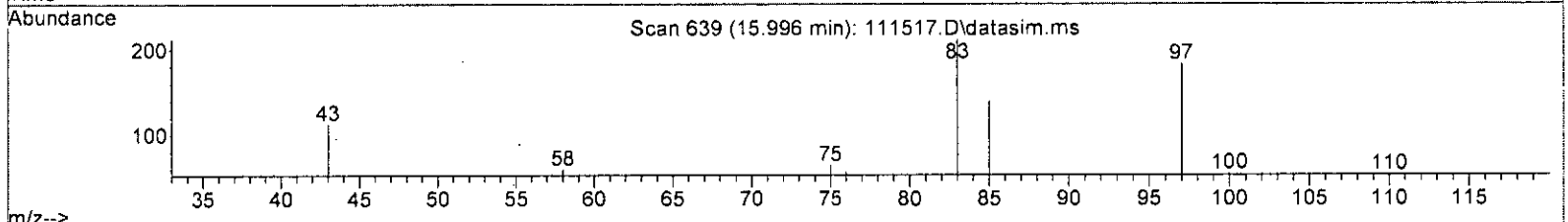
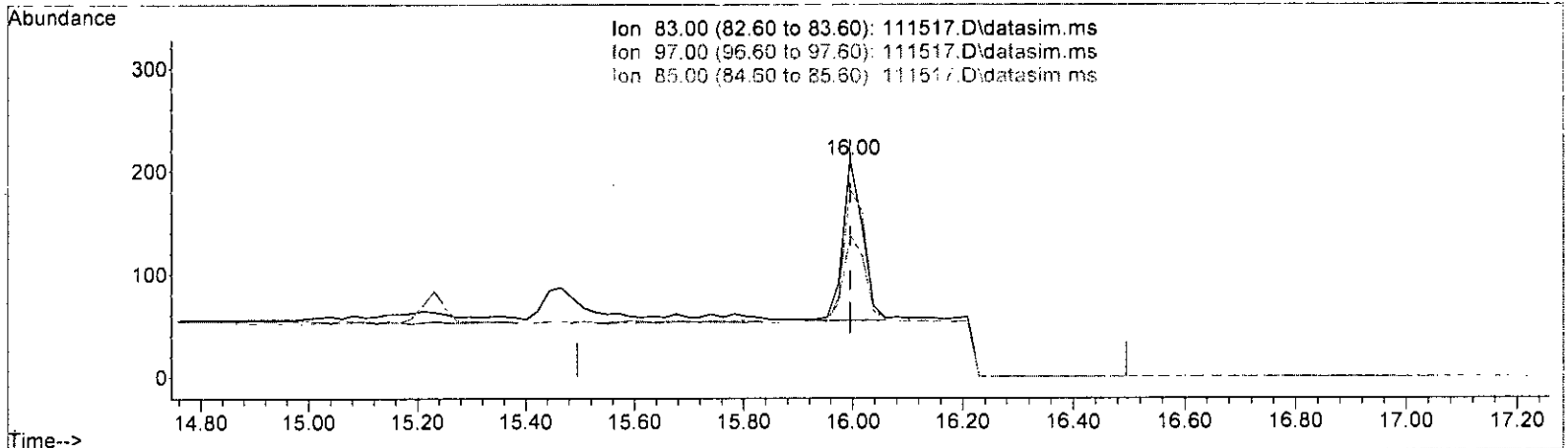
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)

15.996min (-0.000) 0.021 ppbv m

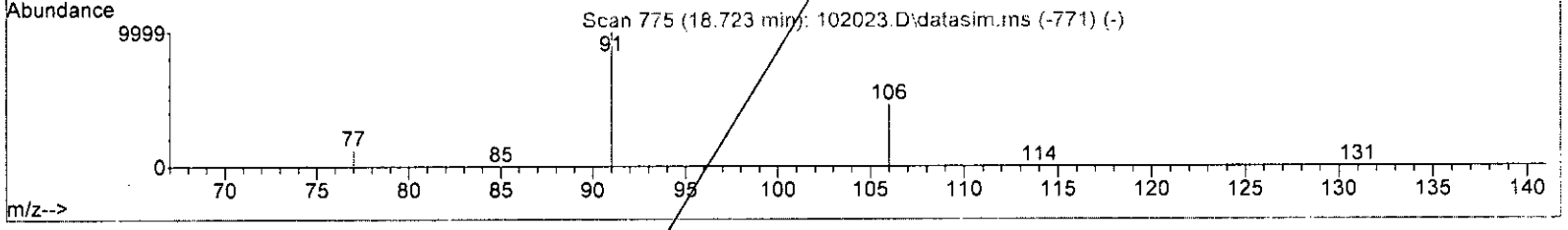
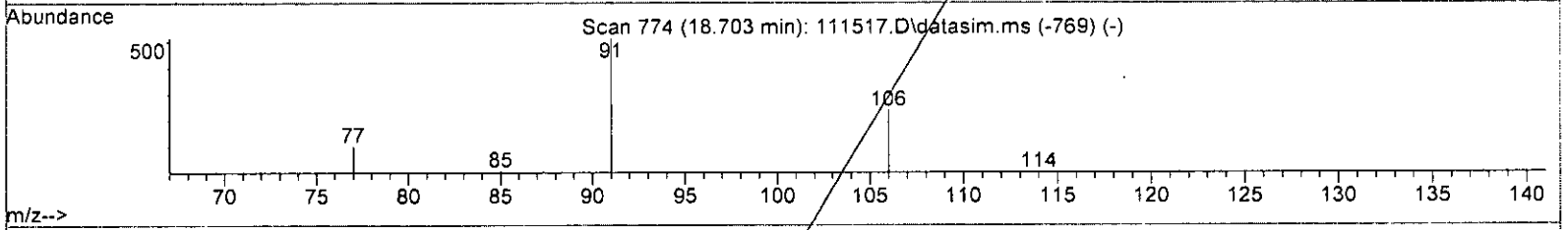
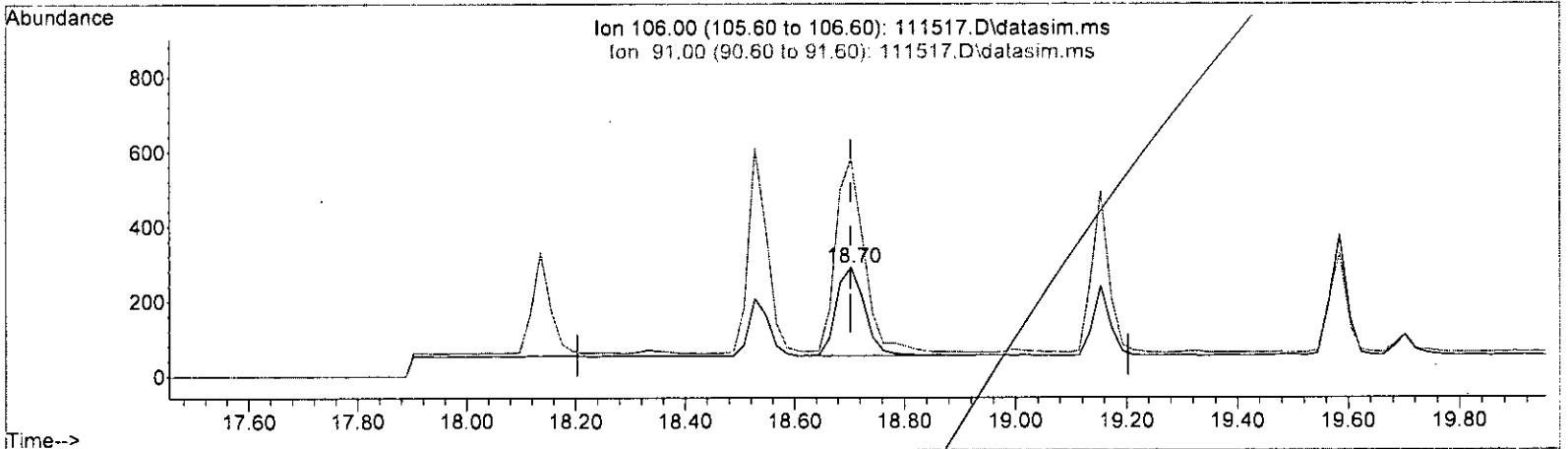
response 393

Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	86.26
85.00	60.50	65.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(65) m,p-Xylene (TMP)

18.703min (+ 0.000) 0.053 ppbv

response 852

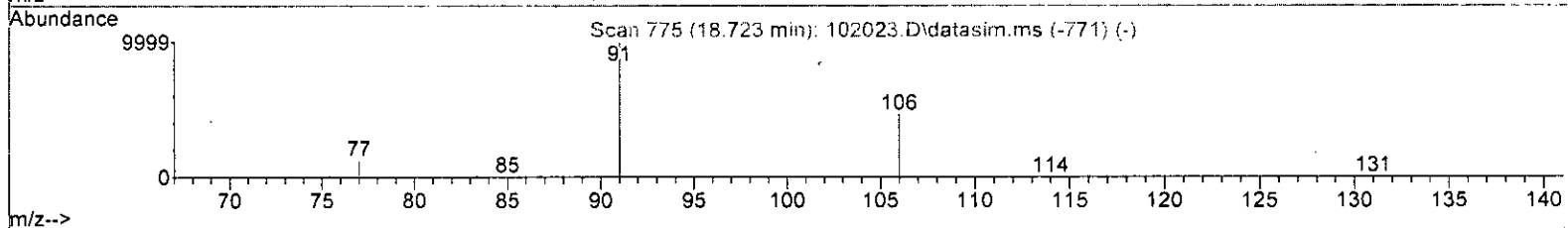
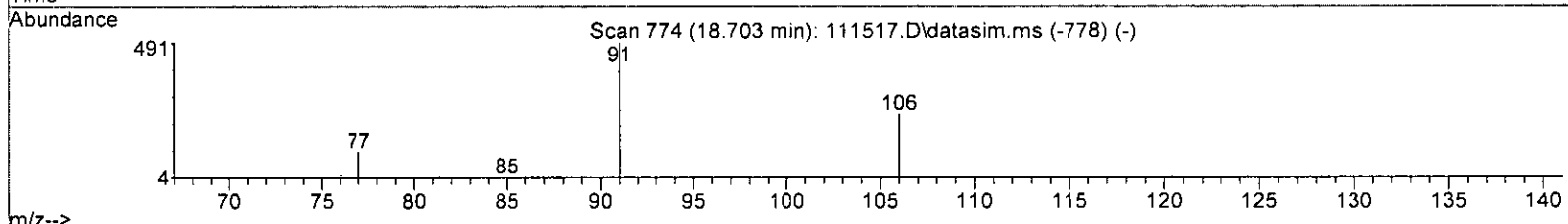
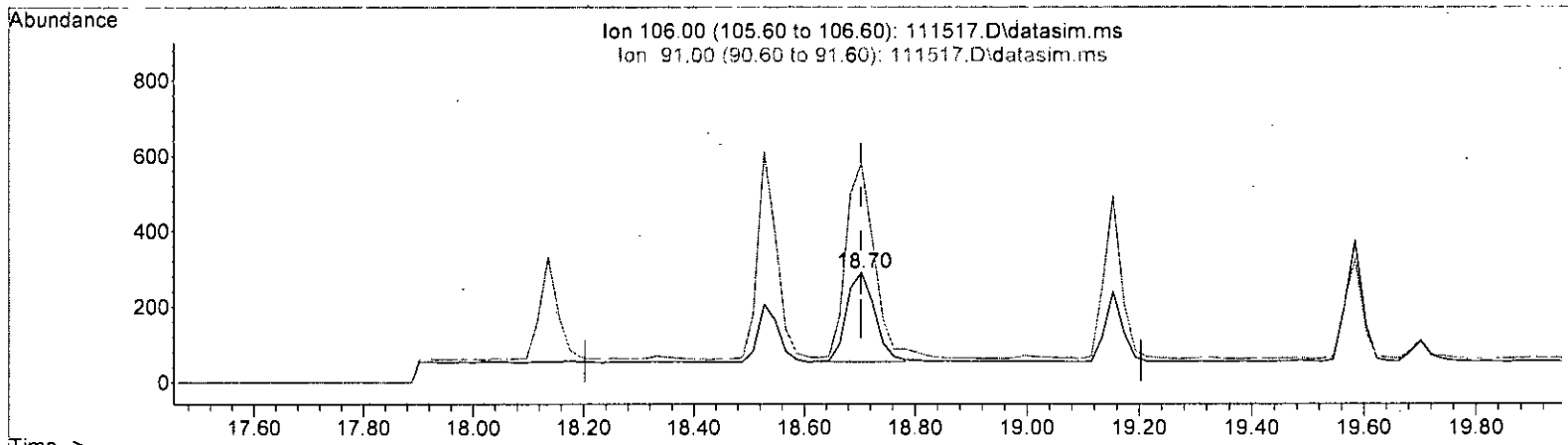
Ion	Exp%	Act%
106.00	100.00	100.00
91.00	223.00	218.22
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: u/ (11/18/22)*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111517.D\data.ms

(65) m,p-Xylene (TMP)

18.703min (+ 0.000) 0.052 ppbv m

response 835

Ion	Exp%	Act%
106.00	100.00	100.00
91.00	223.00	200.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	62504	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	285561	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	252187	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	161862	9.261	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	92.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0		N.D. d	
3) Dichlorodifluoromethane	0.00		0		N.D. d	
4) Chloromethane	0.00		0		N.D. d	
5) F-114	0.00		0		N.D. d	
6] Vinyl chloride	4.05	62	324m	0.028	ppbv	
7] 1,3-Butadiene	4.17	54	224m	0.029	ppbv	
8) Butane	0.00		0		N.D.	
9) Bromomethane	0.00		0		N.D.	
10) Chloroethane	0.00		0		N.D. d	
11) Vinyl bromide	0.00		0		N.D. d	
12) Ethanol	0.00		0		N.D. d	
13) Acrolein	0.00		0		N.D. d	
14) Pentane	0.00		0		N.D.	
15) Trichlorofluoromethane	0.00		0		N.D. d	
16) Acetone	0.00		0		N.D. d	
17) 2-Propanol	0.00		0		N.D. d	
18] 1,1-Dichloroethene	6.63	96	230m	0.022	ppbv	
19] trans-1,2-Dichloroethene	8.07	96	249m	0.025	ppbv	
20) Methylene chloride	0.00		0		N.D. d	
21) t-Butyl alcohol (TBA)	0.00		0		N.D. d	
22) 3-Chloropropene	0.00		0		N.D. d	
23) CFC-113	0.00		0		N.D. d	
24) Carbon disulfide	0.00		0		N.D. d	
25) Methyl t-butyl ether (...)	0.00		0		N.D. d	
26) Vinyl acetate	0.00		0		N.D. d	
27] 1,1-Dichloroethane	8.36	63	517	0.025	ppbv	98
28] cis-1,2-Dichloroethene	9.62	96	278	0.026	ppbv	92
29) Hexane	0.00		0		N.D. d	
30] Chloroform	10.08	83	588	0.020	ppbv	96
31) Ethyl acetate	0.00		0		N.D. d	
32) Tetrahydrofuran	0.00		0		N.D. d	
33) 2-Butanone (MEK)	0.00		0		N.D. d	
34] 1,2-Dichloroethane (EDC)	11.34	62	385	0.020	ppbv	99
35] 1,1,1-Trichloroethane	11.83	97	472m	0.023	ppbv	
36) Carbon tetrachloride	0.00		0		N.D. d	
37) Benzene	0.00		0		N.D. d	
38) Cyclohexane	0.00		0		N.D. d	
40] 1,2-Dichloropropane	13.80	63	396m	0.026	ppbv	

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

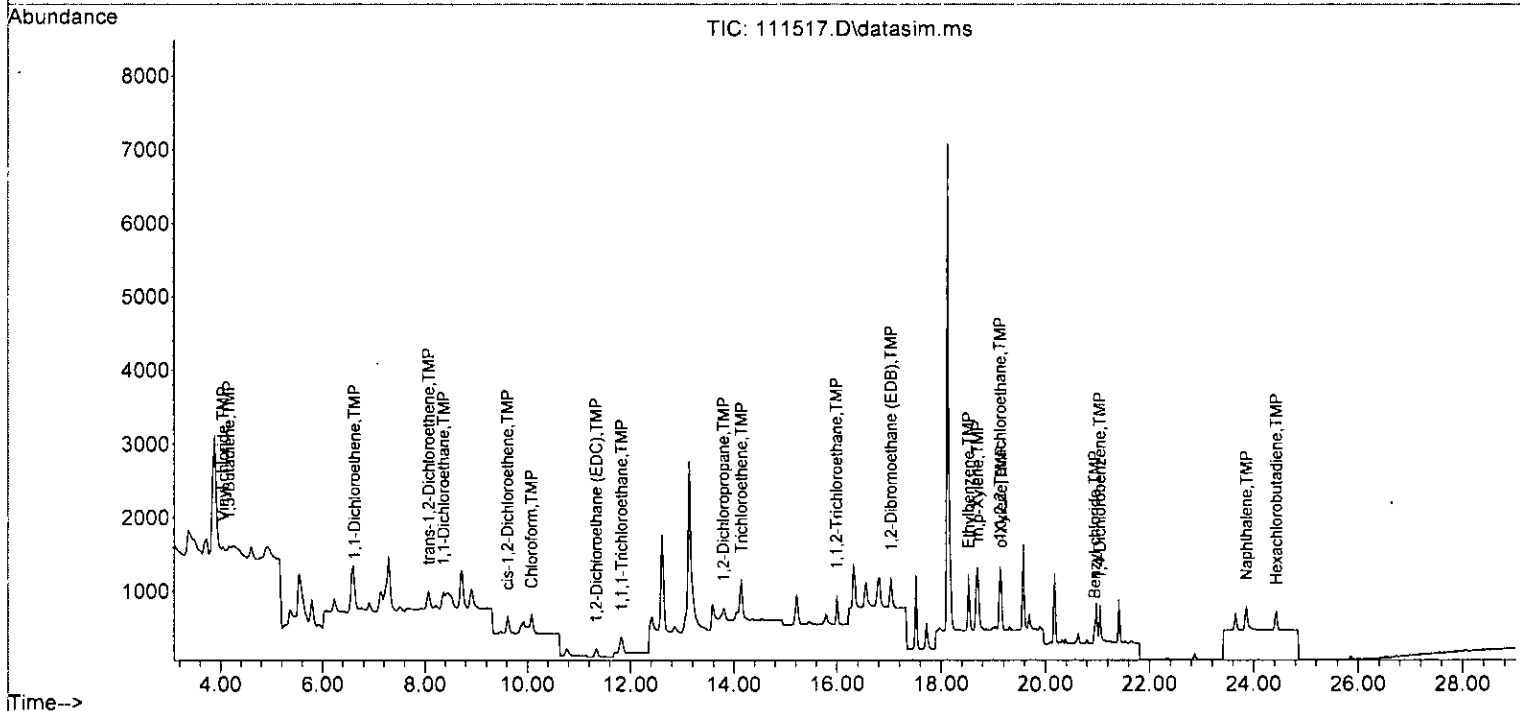
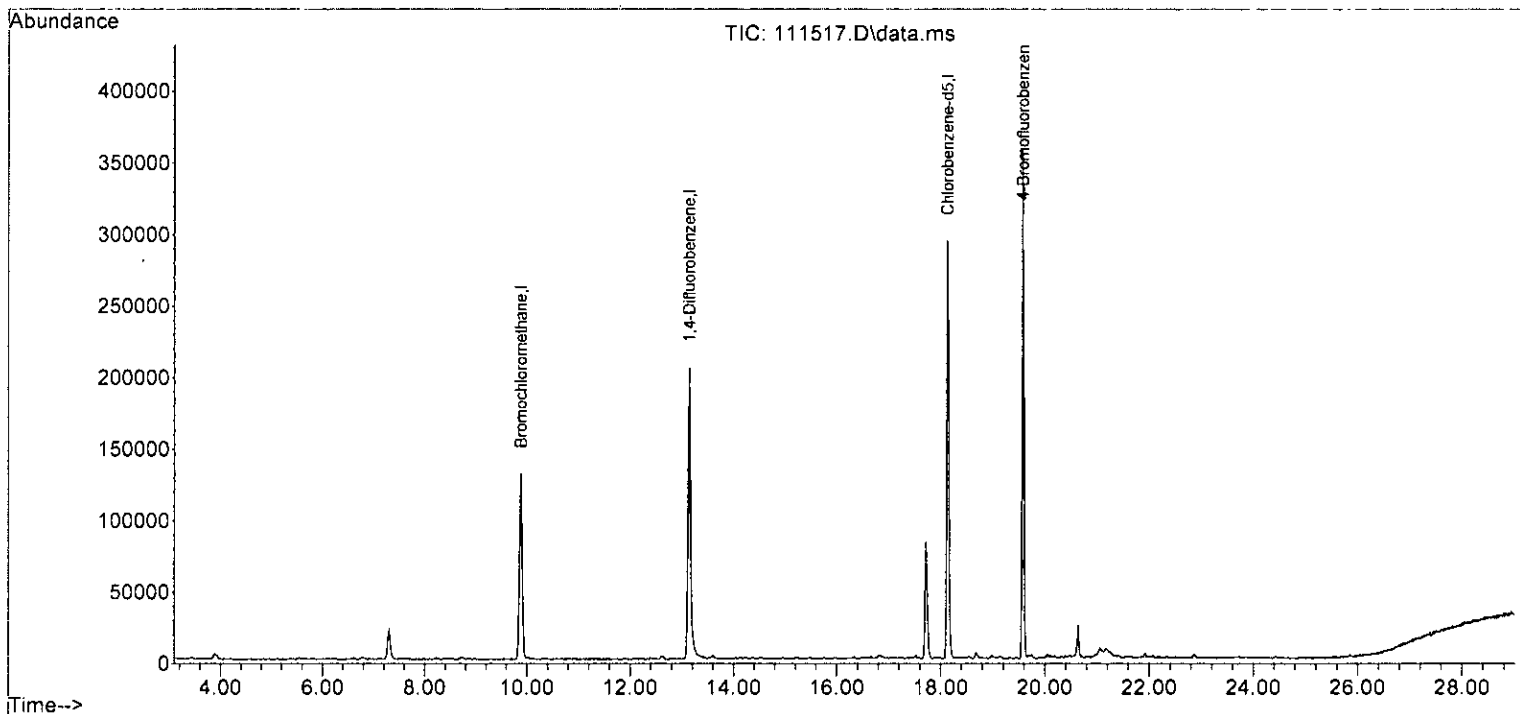
Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0	N.D.	d	
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45) Bromodichloromethane	0.00		0	N.D.	d	
46] Trichloroethene	14.14	95	467m	0.028	ppbv	
47) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
48) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
49) trans-1,3-Dichloropropene	0.00		0	N.D.	d	
50) Toluene	0.00		0	N.D.	d	
51] 1,1,2-Trichloroethane	16.00	83	393m	0.021	ppbv	
52) 2-Hexanone	0.00		0	N.D.	d	
53) Tetrachloroethene	0.00		0	N.D.	d	
54) Dibromochloromethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	566	0.019	ppbv	93
57) Chlorobenzene	0.00		0	N.D.	d	
58] Ethylbenzene	18.53	91	1313	0.022	ppbv	99
59] 1,1,2,2-Tetrachloroethane	19.13	83	797	0.019	ppbv	98
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	0.00		0	N.D.	d	
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63) Propylbenzene	0.00		0	N.D.	d	
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65] m,p-Xylene	18.70	106	835m	0.052	ppbv	
66] o-Xylene	19.15	106	403	0.026	ppbv	96
67) Styrene	0.00		0	N.D.	d	
68) Bromoform	0.00		0	N.D.	d	
70] Benzyl chloride	20.95	91	391	0.014	ppbv	97
71) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
72) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
73) 1,3-Dichlorobenzene	0.00		0	N.D.	d	
74] 1,4-Dichlorobenzene	21.05	146	563	0.024	ppbv	94
75) 1,2-Dichlorobenzene	0.00		0	N.D.	d	
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
77] Naphthalene	23.86	128	958	0.021	ppbv	99
78] Hexachlorobutadiene	24.44	225	626	0.024	ppbv	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	-1.000	0.000	0.0	0	-3.41#
3 TMP Dichlorodifluoromethane	-1.000	0.000	0.0	0	-3.48#
4 TMP Chloromethane	-1.000	0.000	0.0	0	-3.73#
5 TMP F-114	-1.000	0.000	0.0	0	-3.88#
6 TMP Vinyl chloride	0.020	0.028	-40.0#	94	-0.04
7 TMP 1,3-Butadiene	0.020	0.029	-45.0#	94	-0.12
8 TMP Butane	-1.000	0.000	0.0	0	-4.32#
9 TMP Bromomethane	-1.000	0.000	0.0	0	-4.60#
10 TMP Chloroethane	-1.000	0.000	0.0	0	-4.84#
11 TMP Vinyl bromide	-1.000	0.000	0.0	0	-5.32#
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.96#
13 TMP Acrolein	0.020	0.000	100.0#	0	-5.42#
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-5.84#
16 TMP Acetone	-1.000	0.000	0.0	0	-5.57#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	0.020	0.022	-10.0	78	0.00
19 TMP trans-1,2-Dichloroethene	0.020	0.025	-25.0	94	-0.03
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.80#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	-1.000	0.000	0.0	0	-6.94#
23 TMP CFC-113	-1.000	0.000	0.0	0	-7.15#
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-8.43#
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.54#
27 TMP 1,1-Dichloroethane	0.020	0.025	-25.0	100	0.00
28 TMP cis-1,2-Dichloroethene	0.020	0.026	-30.0	100	-0.02
29 TMP Hexane	-1.000	0.000	0.0	0	-10.01#
30 TMP Chloroform	0.020	0.020	0.0	100	-0.02
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.92#
32 TMP Tetrahydrofuran	-1.000	0.000	0.0	0	-10.75#
33 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-8.91#
34 TMP 1,2-Dichloroethane (EDC)	0.020	0.020	0.0	100	0.00
35 TMP 1,1,1-Trichloroethane	0.020	0.023	-15.0	103	0.00
36 TMP Carbon tetrachloride	0.020	0.000	100.0#	0	-12.86#
37 TMP Benzene	0.020	0.000	100.0#	0	-12.61#
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.07#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.020	0.026	-30.0	102	0.00
41 TMP 1,4-Dioxane	-1.000	0.000	0.0	0	-14.09#
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.24#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.56#
45 TMP Bromodichloromethane	0.020	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	0.020	0.028	-40.0#	94	0.00
47 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.20#
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.23#
49 TMP trans-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.78#
50 TMP Toluene	-1.000	0.000	0.0	0	-16.31#
51 TMP 1,1,2-Trichloroethane	0.020	0.021	-5.0	101	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	-1.000	0.000	0.0	0	-17.52#
54 TMP Dibromochloromethane	0.020	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.020	0.019	5.0	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	-1.000	0.000	0.0	0	-18.19#
58 TMP Ethylbenzene	0.020	0.022	-10.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.020	0.019	5.0	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.30#
61 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-19.70#
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	-1.000	0.000	0.0	0	-20.19#
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.32#
65 TMP m,p-Xylene	0.040	0.052	-30.0	98	0.00
66 TMP o-Xylene	0.020	0.026	-30.0	100	0.00
67 TMP Styrene	-1.000	0.000	0.0	0	-19.05#
68 TMP Bromoform	-1.000	0.000	0.0	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.261	7.4	100	0.00
70 TMP Benzyl chloride	0.020	0.014	30.0	100	0.00
71 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-20.39#
72 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-20.80#
73 TMP 1,3-Dichlorobenzene	-1.000	0.000	0.0	0	-20.98#
74 TMP 1,4-Dichlorobenzene	0.020	0.024	-20.0	100	0.00
75 TMP 1,2-Dichlorobenzene	-1.000	0.000	0.0	0	-21.41#
76 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-23.64#
77 TMP Naphthalene	0.020	0.021	-5.0	100	0.02
78 TMP Hexachlorobutadiene	0.020	0.024	-20.0	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	0.000	100.0#	0#	-3.41#
3 TMP Dichlorodifluoromethane	4.123	0.000#	100.0#	0#	-3.48#
4 TMP Chloromethane	1.882	0.000#	100.0#	0#	-3.73#
5 TMP F-114	4.217	0.000	100.0#	0#	-3.88#
6 TMP Vinyl chloride	1.851	2.592	-40.0#	94	-0.04
7 TMP 1,3-Butadiene	1.216	1.792	-47.4#	94	-0.12
8 TMP Butane	2.183	0.000	100.0#	0#	-4.32#
9 TMP Bromomethane	1.847	0.000#	100.0#	0#	-4.60#
10 TMP Chloroethane	0.655	0.000#	100.0#	0#	-4.84#
11 TMP Vinyl bromide	1.609	0.000	100.0#	0#	-5.32#
12 TMP Ethanol	0.663	0.000	100.0#	0#	-4.96#
13 TMP Acrolein	0.729	0.000	100.0#	0#	-5.42#
14 TMP Pentane	2.461	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.781	0.000#	100.0#	0#	-5.84#
16 TMP Acetone	0.710	0.000#	100.0#	0#	-5.57#
17 TMP 2-Propanol	3.096	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.645	1.840	-11.9	78	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.992	-24.7	94	-0.03
20 TMP Methylene chloride	1.479	0.000#	100.0#	0#	-6.80#
21 TMP t-Butyl alcohol (TBA)	2.668	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.056	0.000	100.0#	0#	-6.94#
23 TMP CFC-113	3.469	0.000	100.0#	0#	-7.15#
24 TMP Carbon disulfide	5.167	0.000	100.0#	0#	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	3.434	0.000#	100.0#	0#	-8.43#
26 TMP Vinyl acetate	3.801	0.000#	100.0#	0#	-8.54#
27 TMP 1,1-Dichloroethane	3.342	4.136	-23.8	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	2.224	-31.6#	100	-0.02
29 TMP Hexane	2.068	0.000	100.0#	0#	-10.01#
30 TMP Chloroform	4.060	4.704	-15.9	100	-0.02
31 TMP Ethyl acetate	3.789	0.000	100.0#	0#	-9.92#
32 TMP Tetrahydrofuran	1.809	0.000	100.0#	0#	-10.75#
33 TMP 2-Butanone (MEK)	0.619	0.000	100.0#	0#	-8.91#
34 TMP 1,2-Dichloroethane (EDC)	2.687	3.080	-14.6	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.776	-13.0	103	0.00
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	0.000#	100.0#	0#	-12.61#
38 TMP Cyclohexane	1.367	0.000	100.0#	0#	-13.07#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.693	-28.1	102	0.00
41 TMP 1,4-Dioxane	0.230	0.000	100.0#	0#	-14.09#
42 TMP 2,2,4-Trimethylpentane	1.598	0.000	100.0#	0#	-14.24#
43 TMP Methyl methacrylate	0.485	0.000	100.0#	0#	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111517.D  
 Acq On : 16 Nov 2022 4:27 am  
 Operator : bat  
 Sample : 0.02 ppbv 67-196e  
 Misc : T3, 250cc of 0.02ppbv  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 12:49:12 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.000	100.0#	0#	-14.56#
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.818	-37.9#	94	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.000	100.0#	0#	-15.20#
48 TMP 4-Methyl-2-pentanone	0.044	0.000	100.0#	0#	-15.23#
49 TMP trans-1,3-Dichloropropene	0.563	0.000	100.0#	0#	-15.78#
50 TMP Toluene	0.707	0.000	100.0#	0#	-16.31#
51 TMP 1,1,2-Trichloroethane	0.550	0.688	-25.1	101	0.00
52 TMP 2-Hexanone	0.846	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.490	0.000#	100.0#	0#	-17.52#
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.991	-20.3	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	0.000#	100.0#	0#	-18.19#
58 TMP Ethylbenzene	1.968	2.603	-32.3#	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.580	-13.3	100	0.00
60 TMP Nonane	0.981	0.000	100.0#	0#	-19.30#
61 TMP Isopropylbenzene	1.792	0.000	100.0#	0#	-19.70#
62 TMP 2-Chlorotoluene	0.448	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.292	0.000	100.0#	0#	-20.19#
64 TMP 4-Ethyltoluene	1.611	0.000	100.0#	0#	-20.32#
65 TMP m,p-Xylene	0.633	0.828	-30.8#	98	0.00
66 TMP o-Xylene	0.615	0.799	-29.9	100	0.00
67 TMP Styrene	0.819	0.000#	100.0#	0#	-19.05#
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.642	7.4	100	0.00
70 TMP Benzyl chloride	0.987	0.775	21.5	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	0.000	100.0#	0#	-20.39#
72 TMP 1,2,4-Trimethylbenzene	1.247	0.000	100.0#	0#	-20.80#
73 TMP 1,3-Dichlorobenzene	1.012	0.000	100.0#	0#	-20.98#
74 TMP 1,4-Dichlorobenzene	0.947	1.116	-17.8	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	0.000	100.0#	0#	-21.41#
76 TMP 1,2,4-Trichlorobenzene	0.626	0.000	100.0#	0#	-23.64#
77 TMP Naphthalene	1.132	1.899	-67.8#	100	0.02
78 TMP Hexachlorobutadiene	1.045	1.241	-18.8	100	0.00

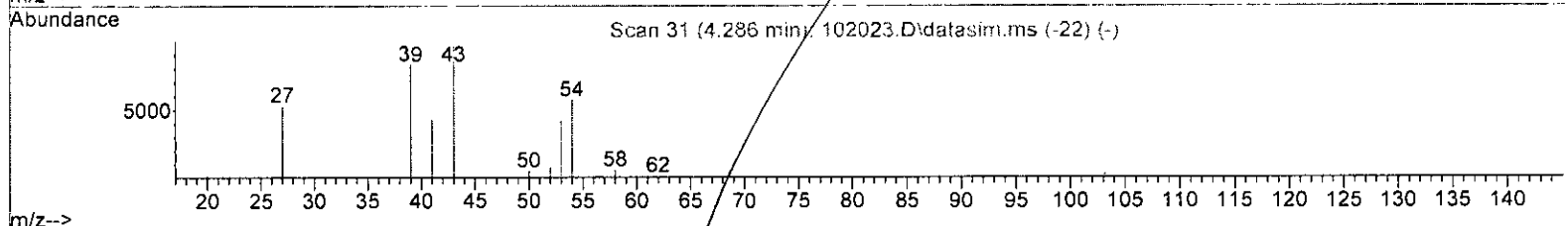
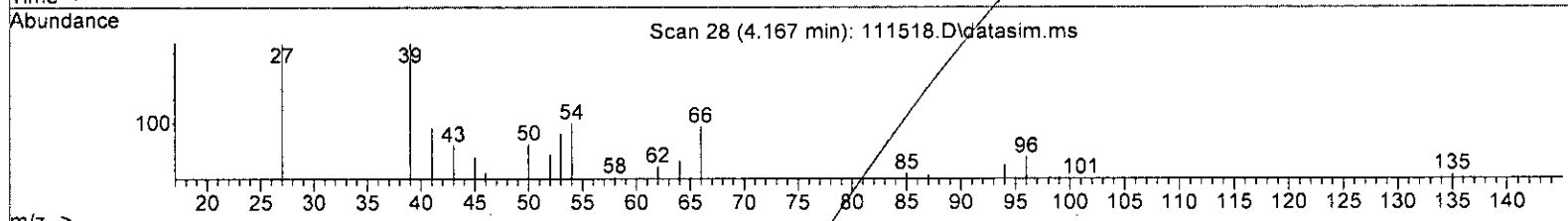
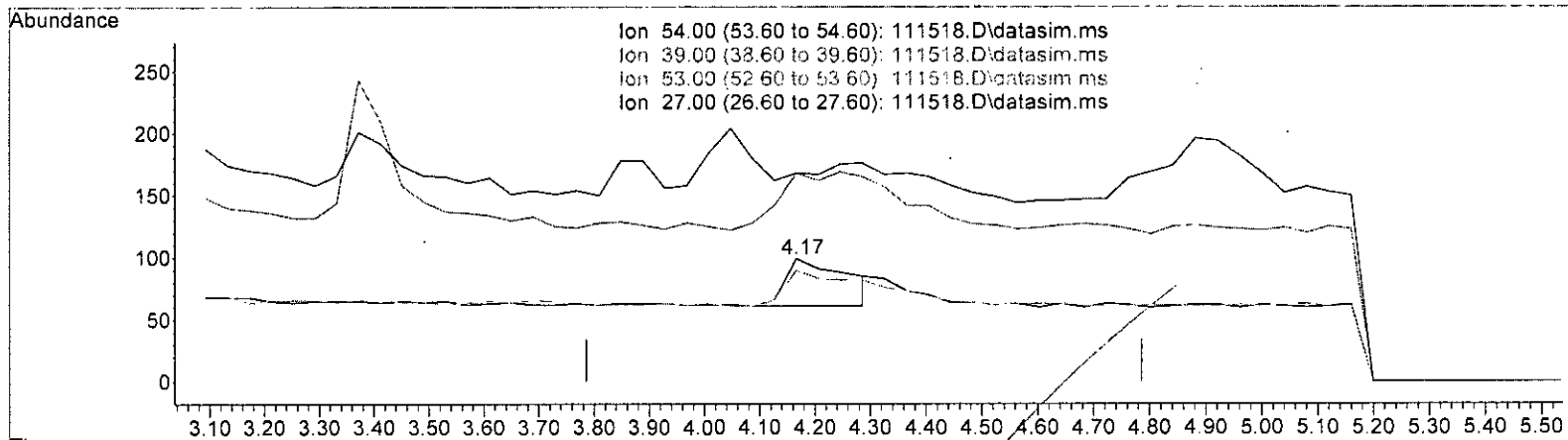
(#) = Out of Range

SPCC's out = 18 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(7) 1,3-Butadiene (TMP)  
 4.167min (-0.119) 0.039 ppbv m

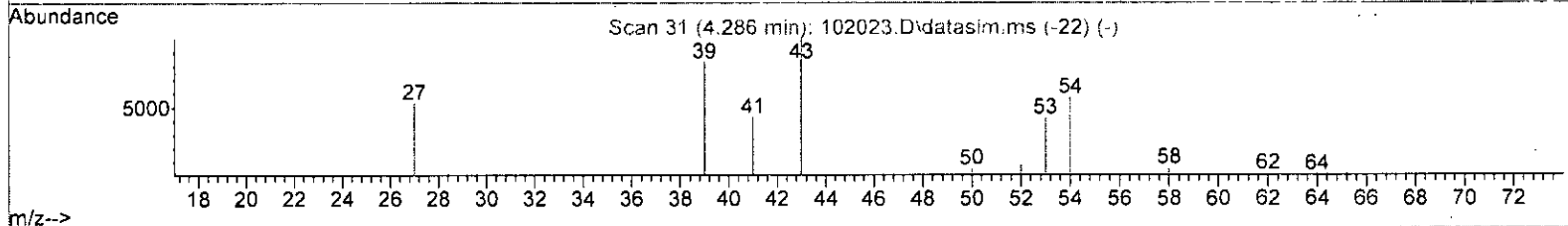
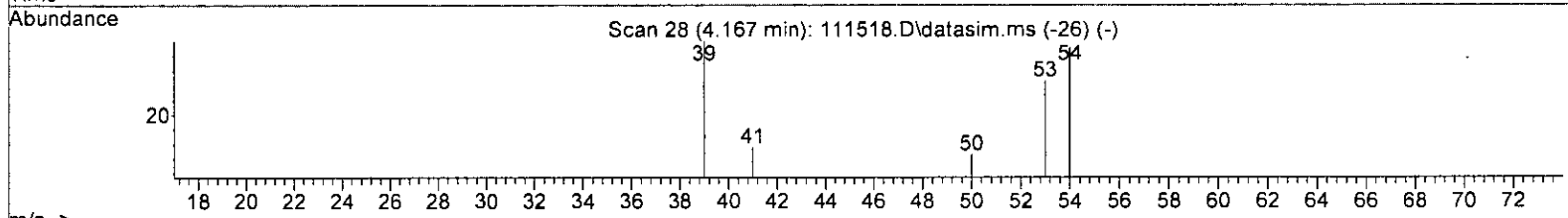
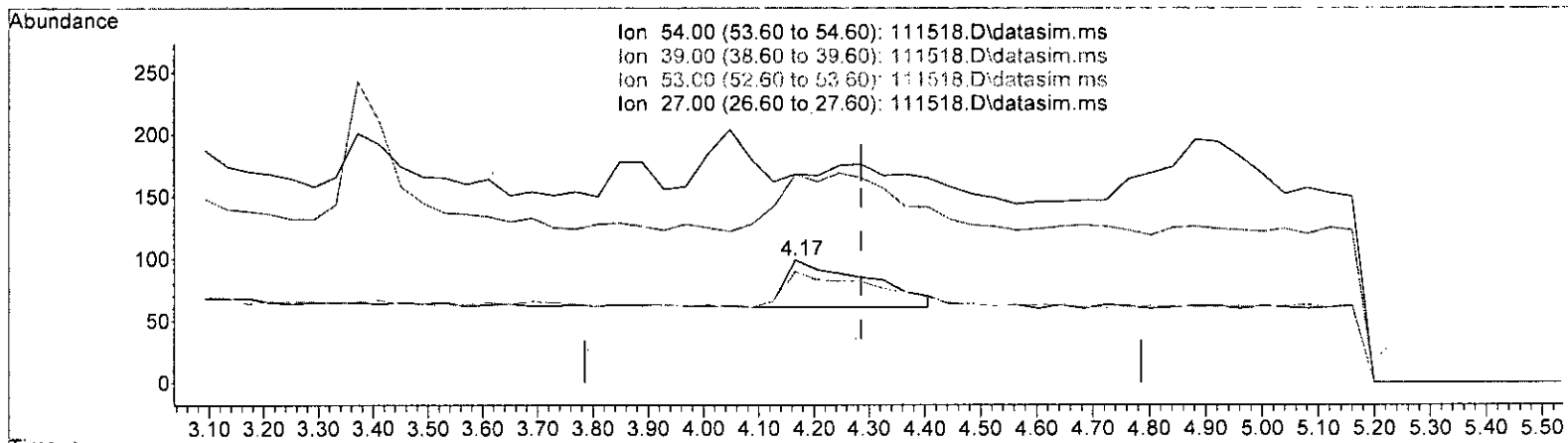
response	296	
Ion	Exp%	Act%
54.00	100.00	100.00
39.00	127.60	169.70#
53.00	72.40	90.91
27.00	0.00	169.70#

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(7) 1,3-Butadiene (TMP)  
 4.167min (-0.119) 0.052 ppbv m

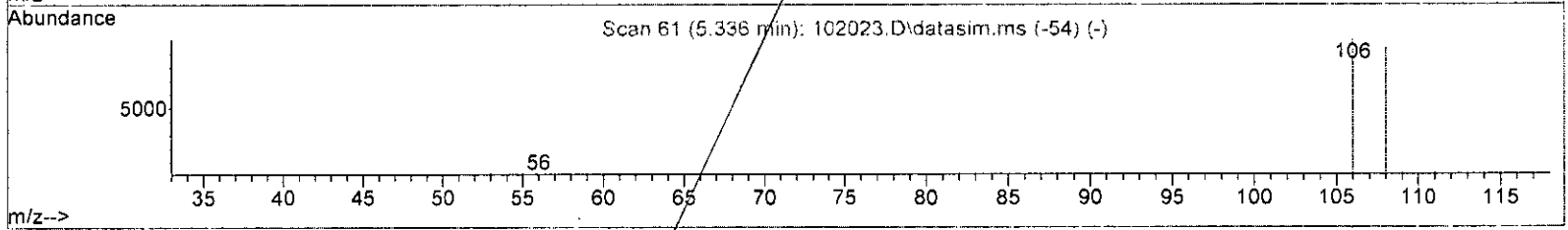
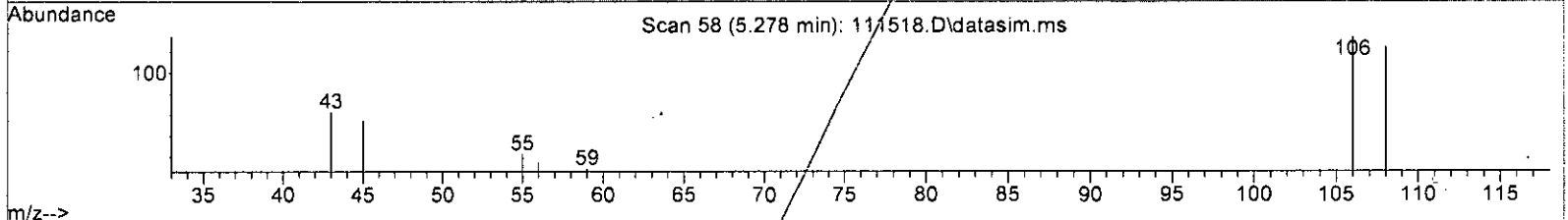
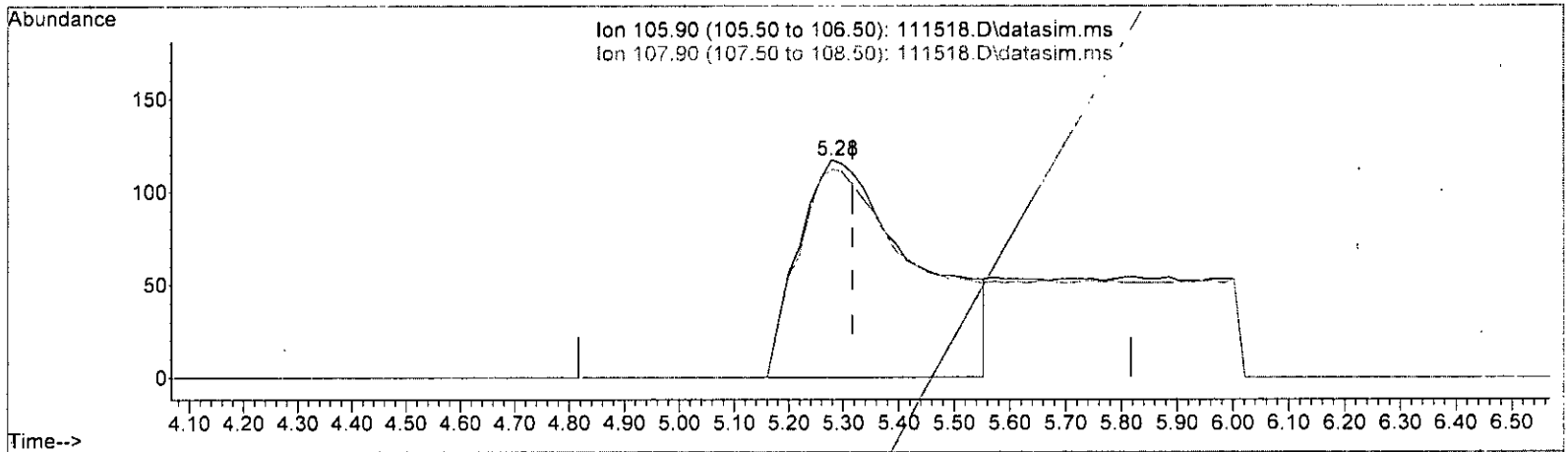
response	398	
Ion	Exp%	Act%
54.00	100.00	100.00
39.00	127.60	169.70#
53.00	72.40	90.91
27.00	0.00	169.70#

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(11) Vinyl bromide (TMP)  
 5.278min (-0.039) 0.186 ppbv  
 response 1890

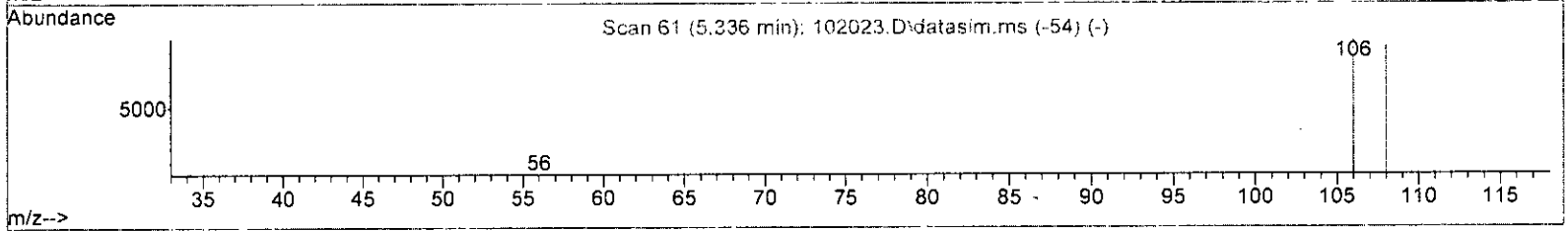
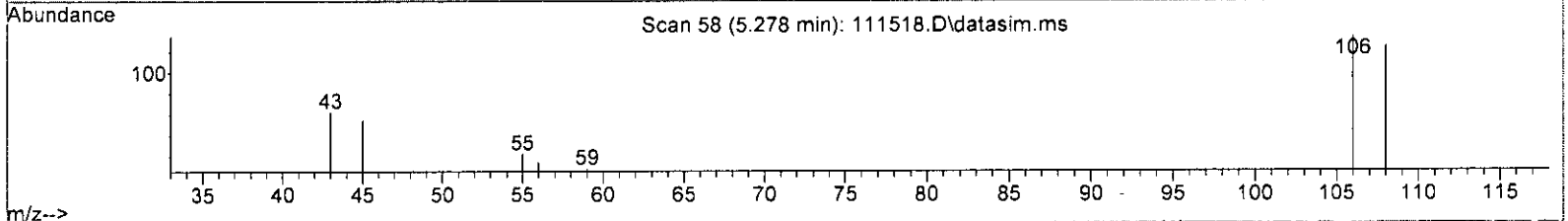
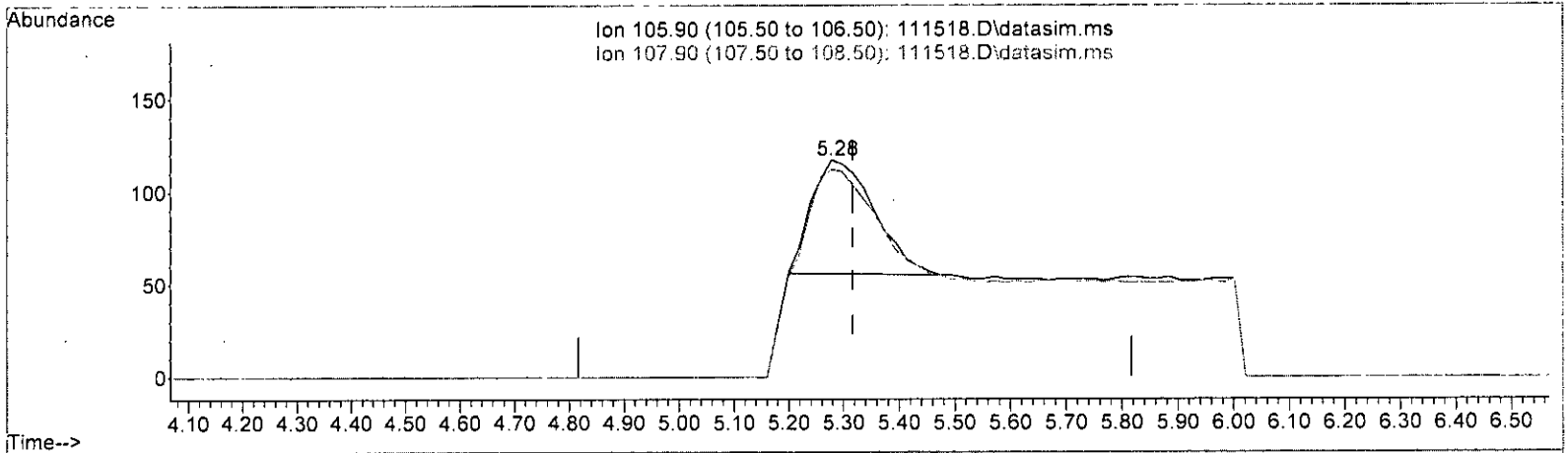
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	97.20
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: u/11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(11) Vinyl bromide (TMP)

5.278min (-0.039) 0.048 ppbv m

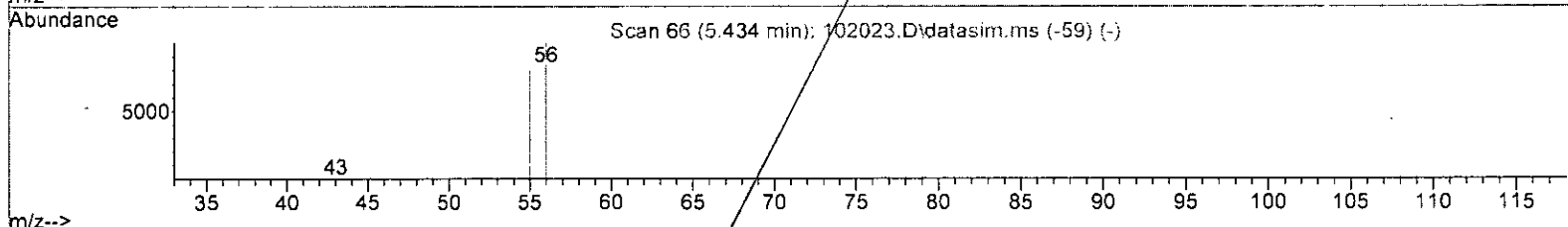
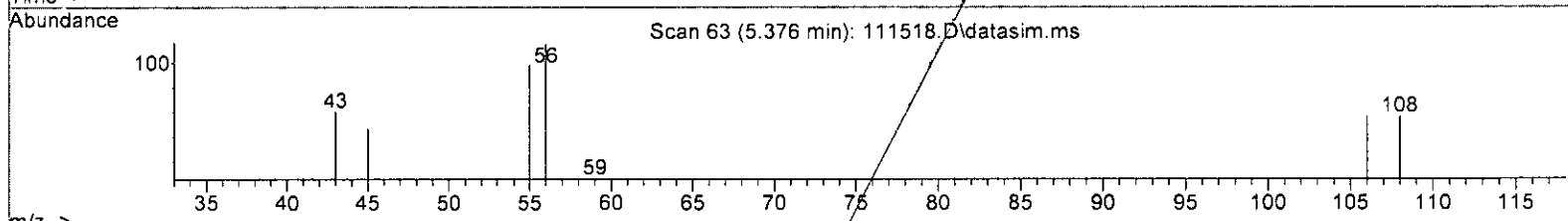
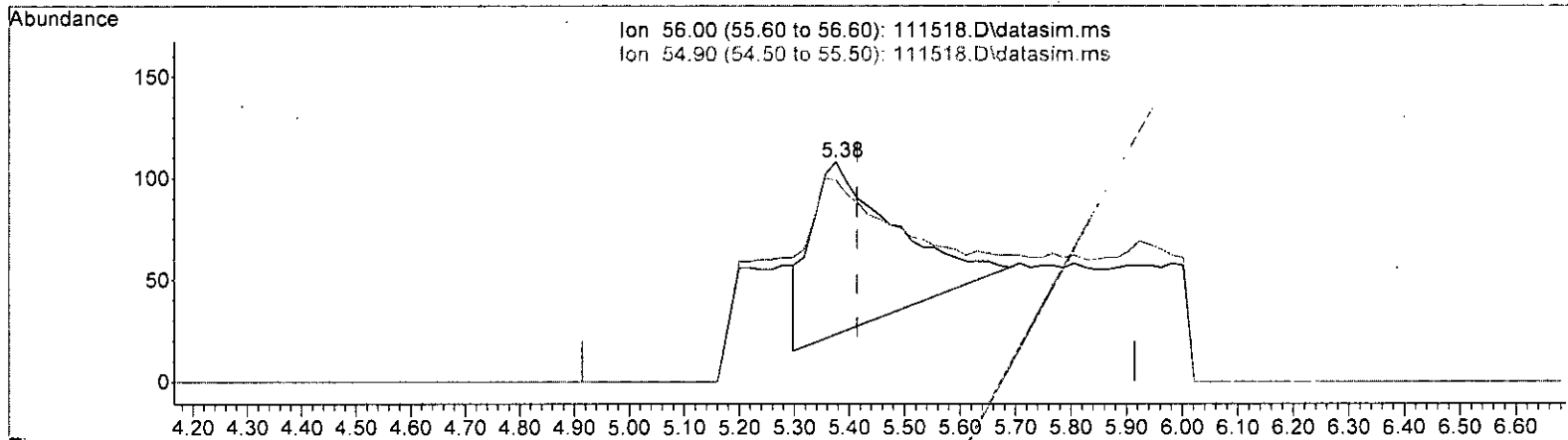
response	483	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	380.33#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-1960  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

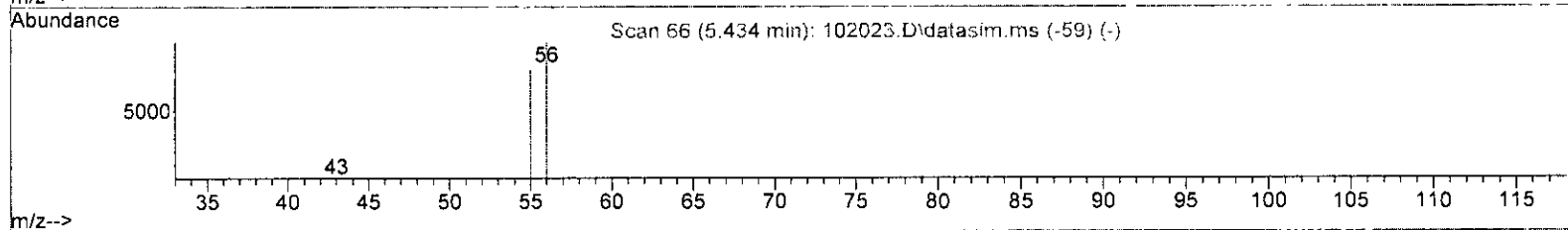
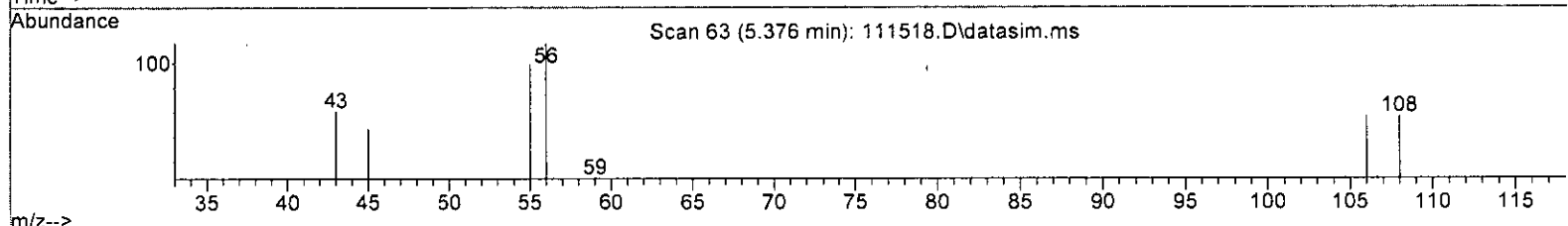
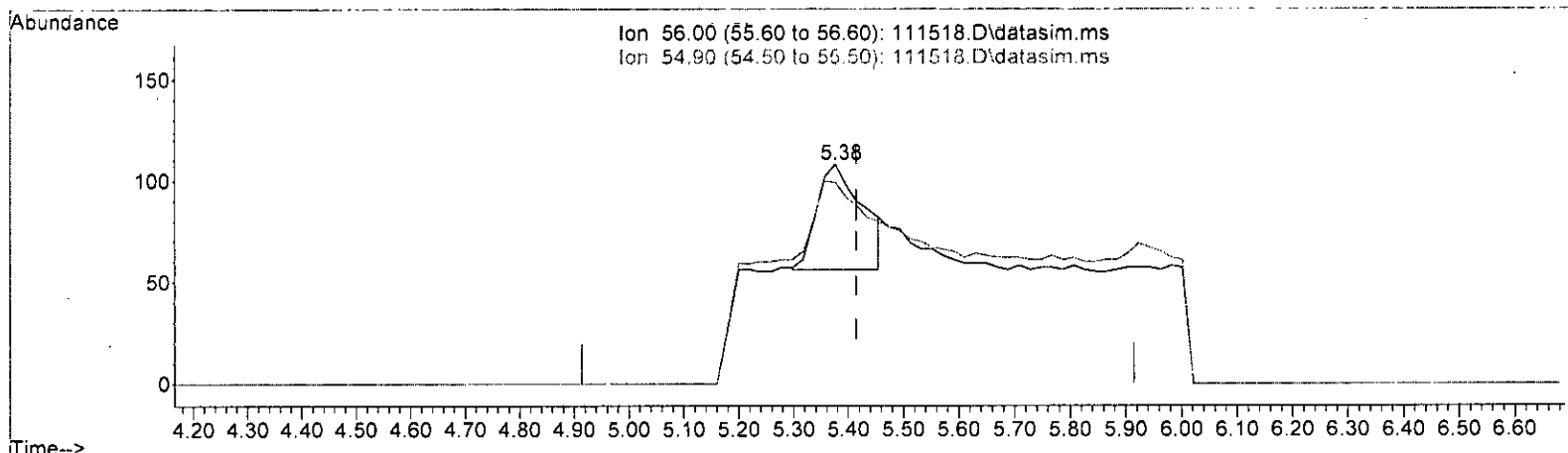
(13) Acrolein (TMP)		
5.376min (-0.039)	0.195 ppbv	
response	898	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	276.39#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(13) Acrolein (TMP)		
5.376min (-0.039)	0.066 ppbv m	
response	304	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	816.45#
0.00	0.00	0.00
0.00	0.00	0.00

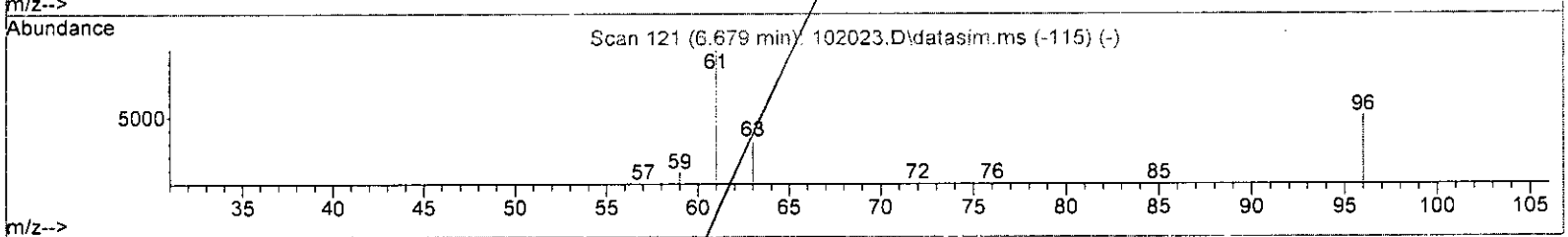
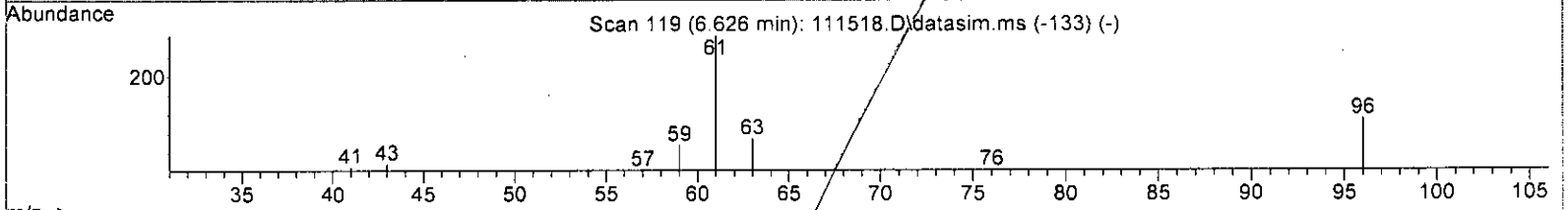
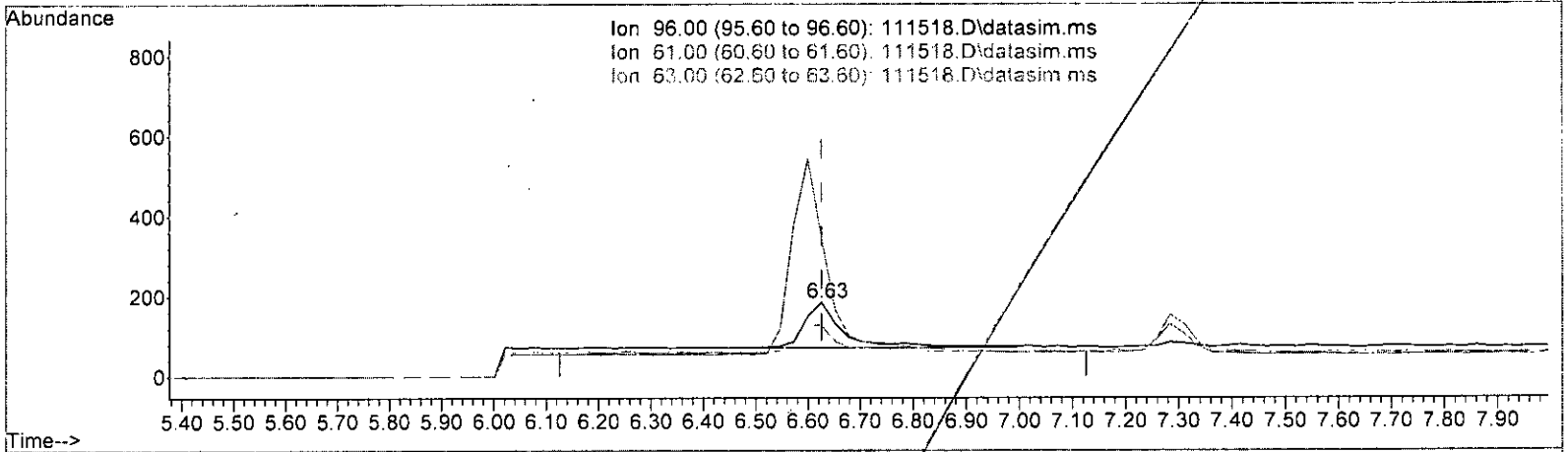
*W*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

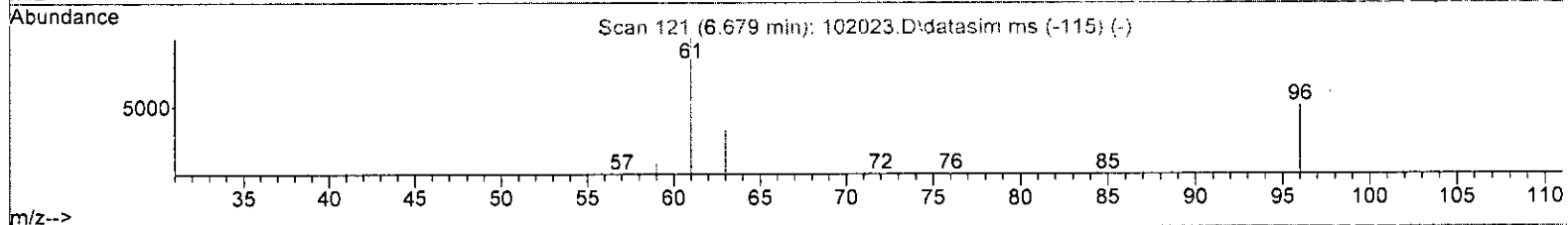
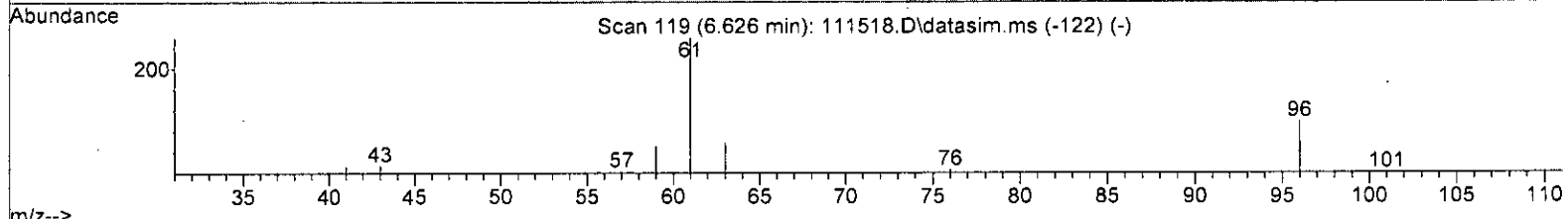
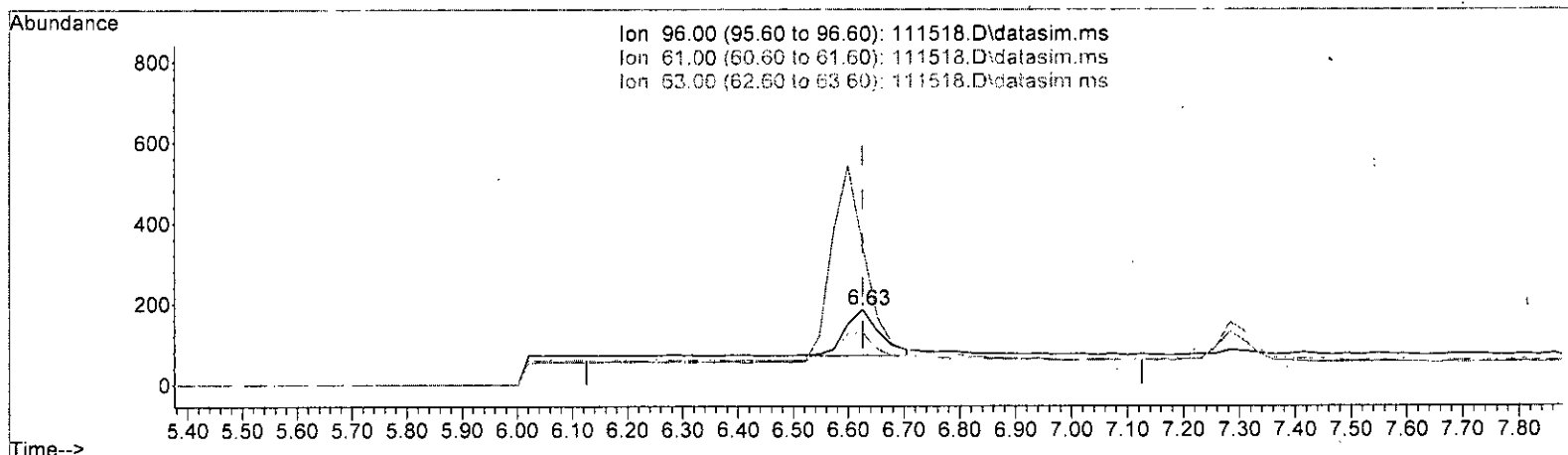
(18) 1,1-Dichloroethene (TMP)		
6.626min (+ 0.000)	0.059 ppbv	
response	617	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	189.00	255.75#
63.00	62.00	60.18
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

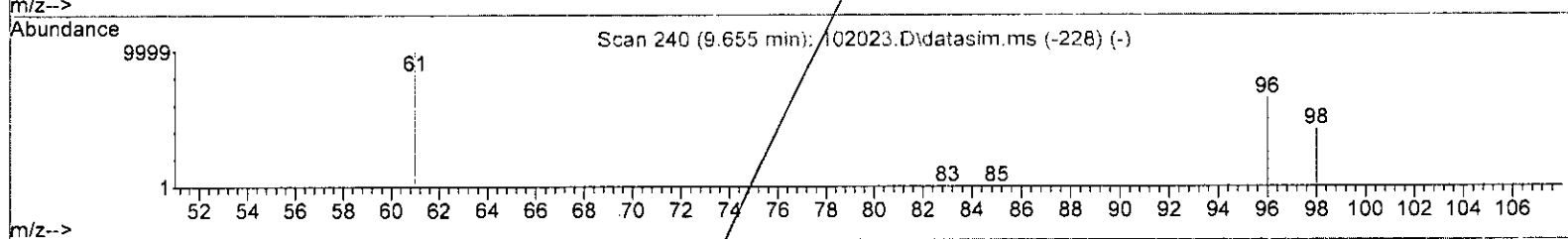
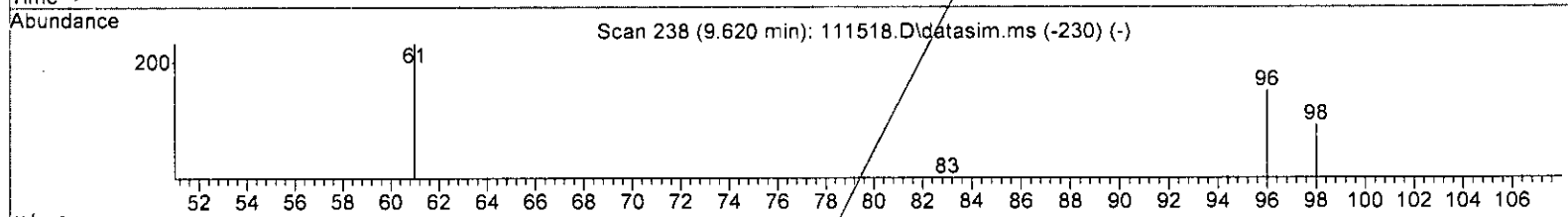
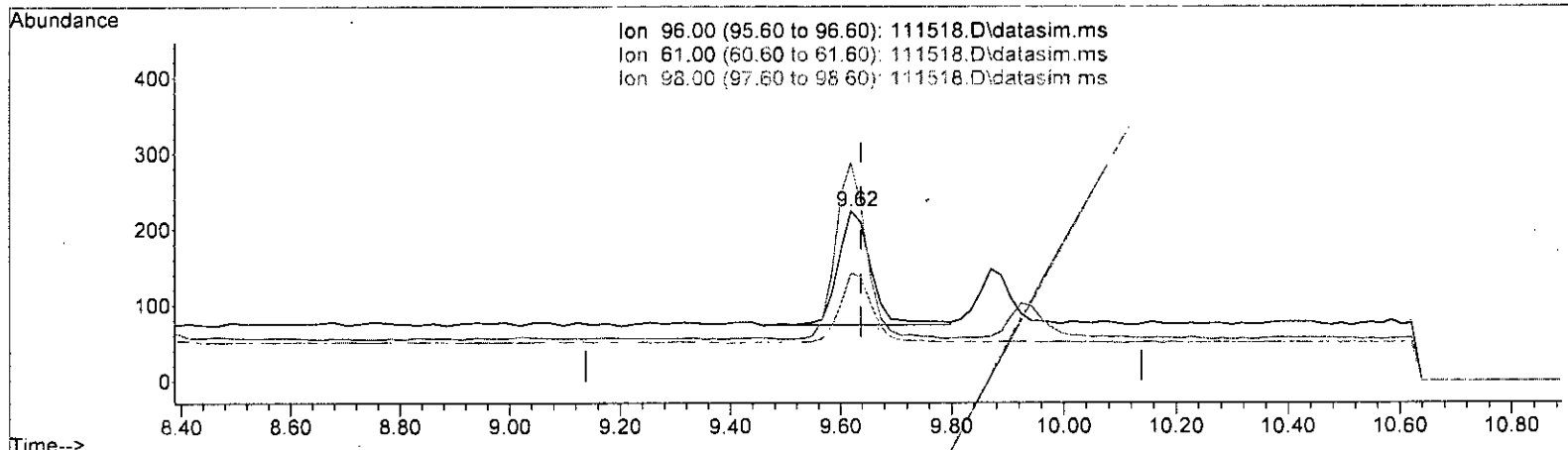
(18) 1,1-Dichloroethene (TMP)		
6.626min (+ 0.000)	0.048 ppbv m	
response	495	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	189.00	187.50
63.00	62.00	69.57
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCM57 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(28) cis-1,2-Dichloroethene (TMP)  
 9.620min (-0.018) 0.058 ppbv

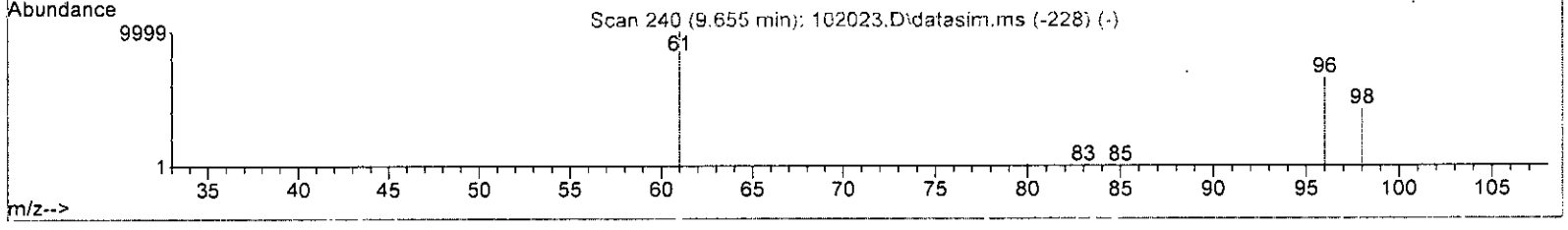
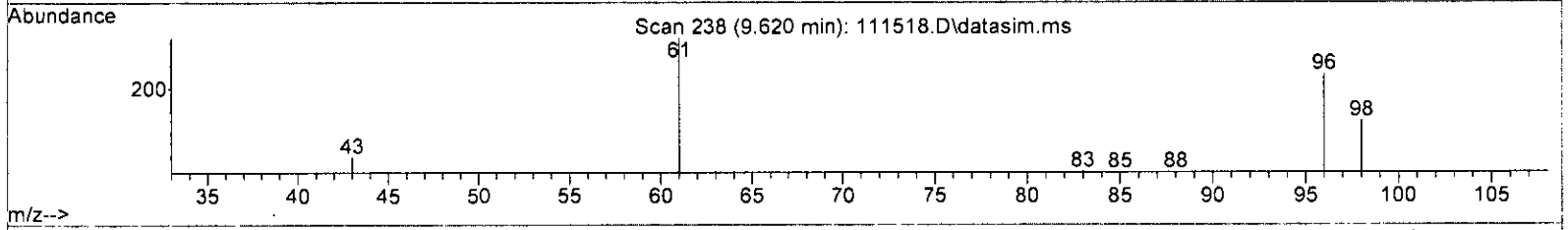
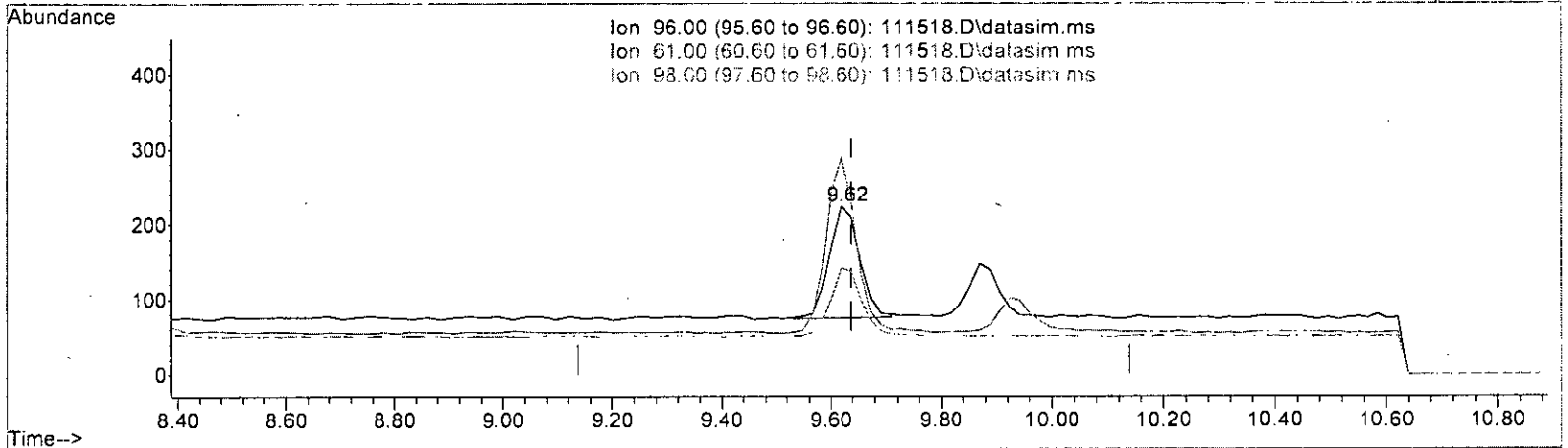
response	614
Ion	Exp% Act%
96.00	100.00 100.00
61.00	146.00 154.67
98.00	65.20 60.67
0.00	0.00 0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(28) cis-1,2-Dichloroethene (TMP)  
 9.620min (-0.018) 0.054 ppbv m

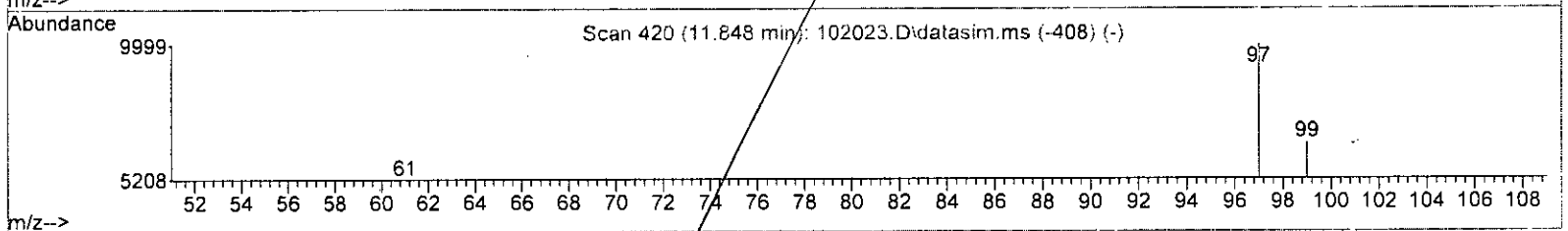
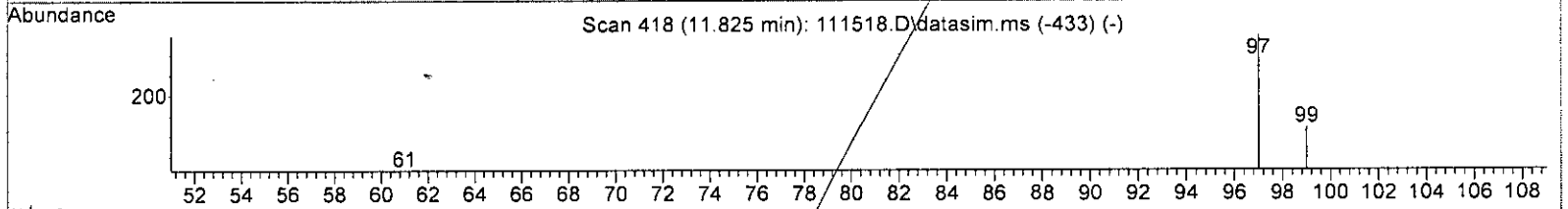
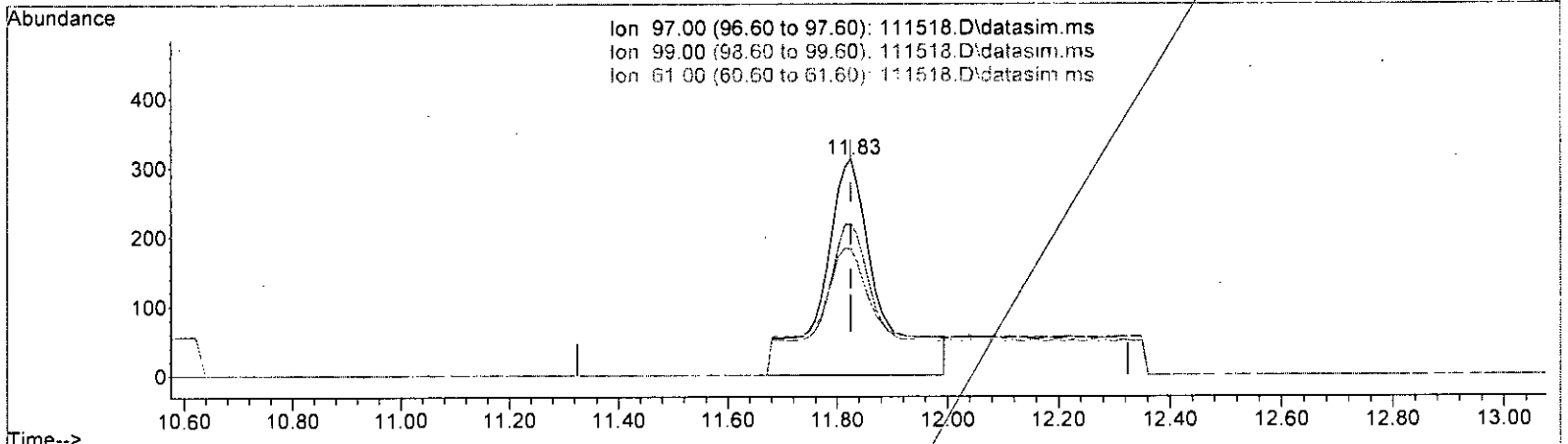
response	579	
Ion	Exp%	Act%
96.00	100.00	100.00
61.00	146.00	128.57
98.00	65.20	63.39
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 0.103 ppbv

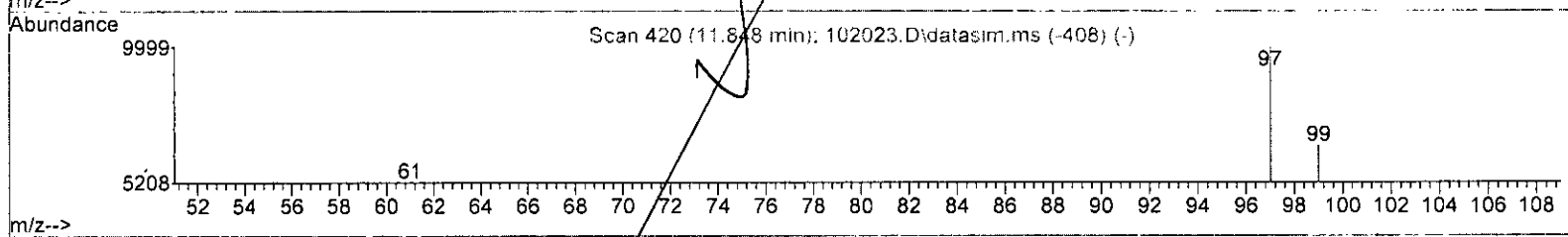
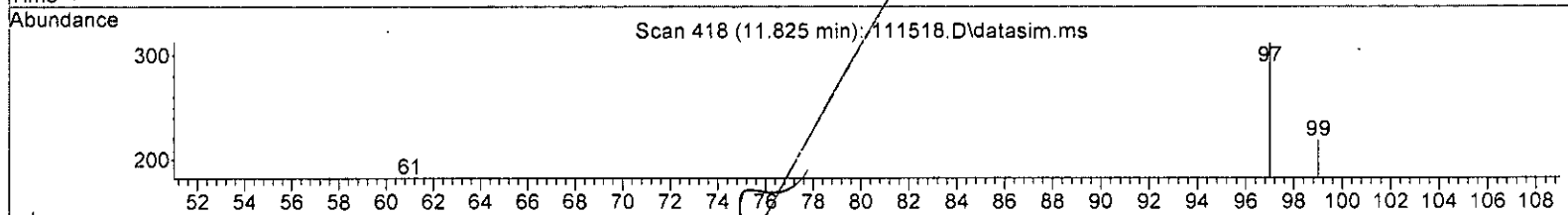
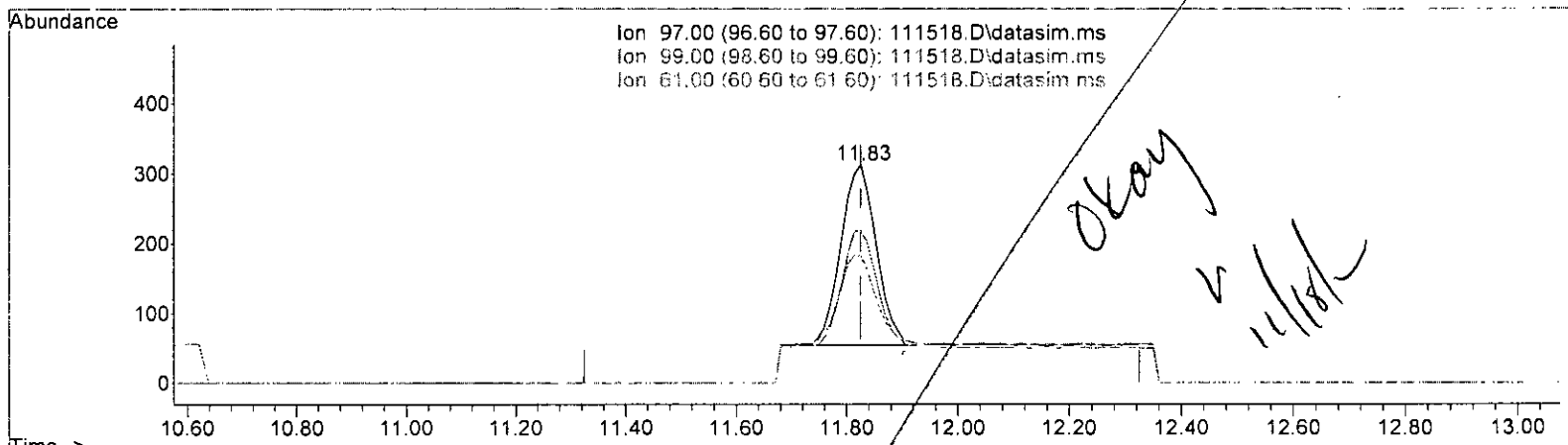
response	2175
Ion	Exp% Act%
97.00	100.00 100.00
99.00	61.70 69.87
61.00	49.30 58.33
0.00	0.00 0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 0.054 ppbv m

response 1144

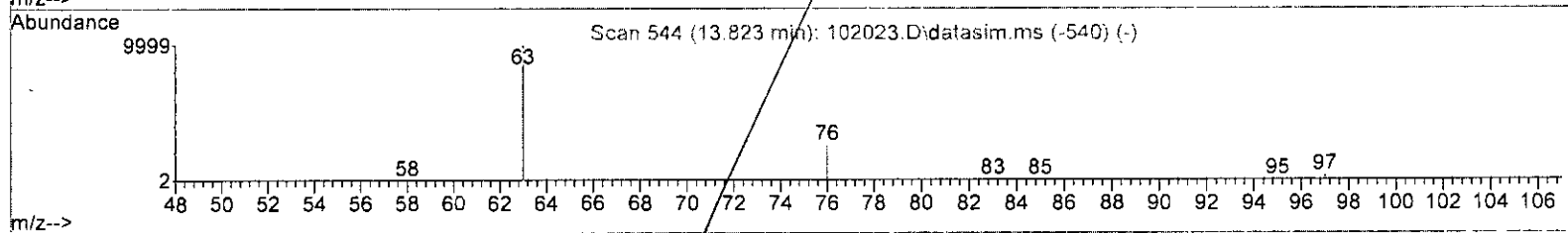
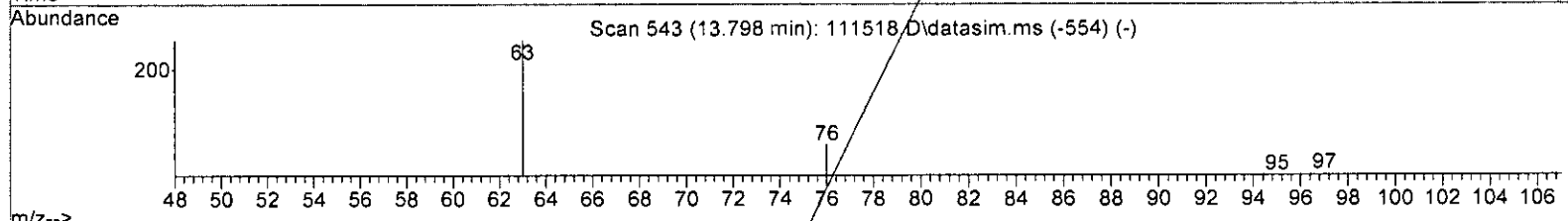
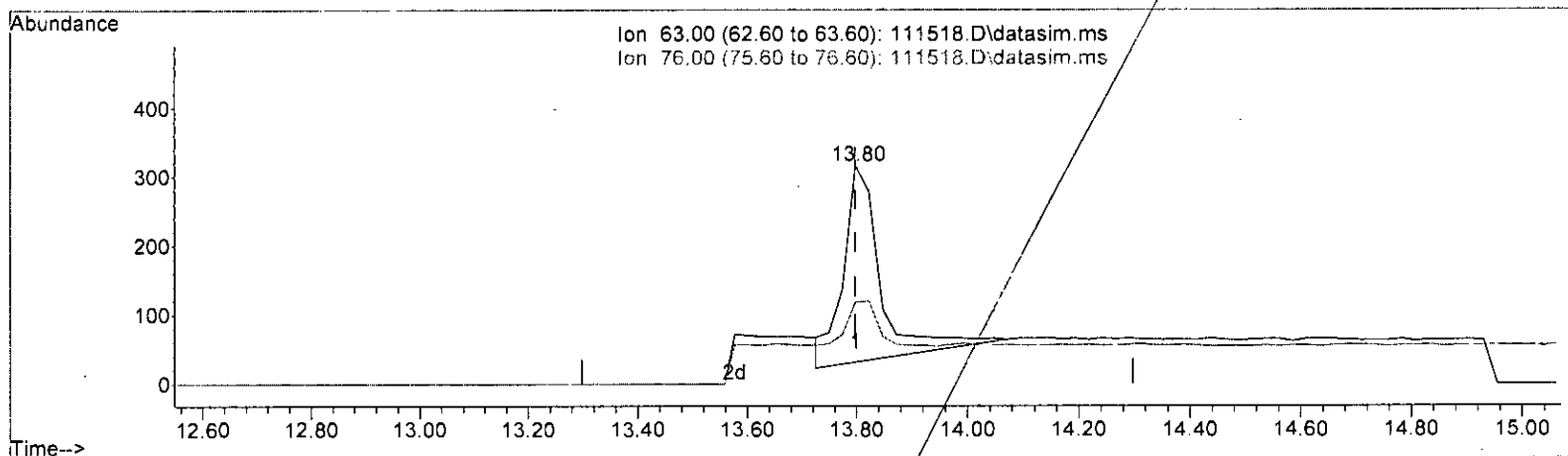
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	69.87
61.00	49.30	58.33
0.00	0.00	0.00

11/18/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

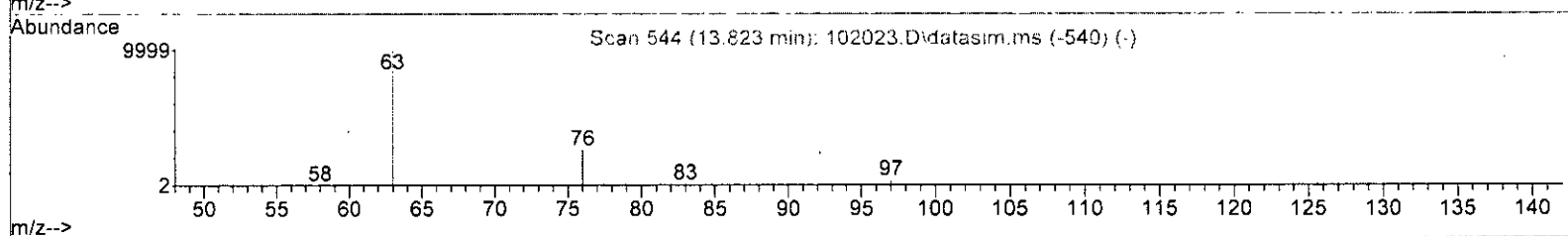
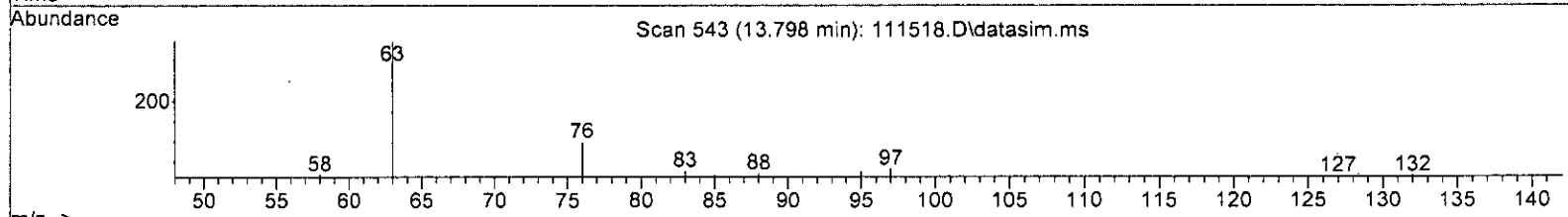
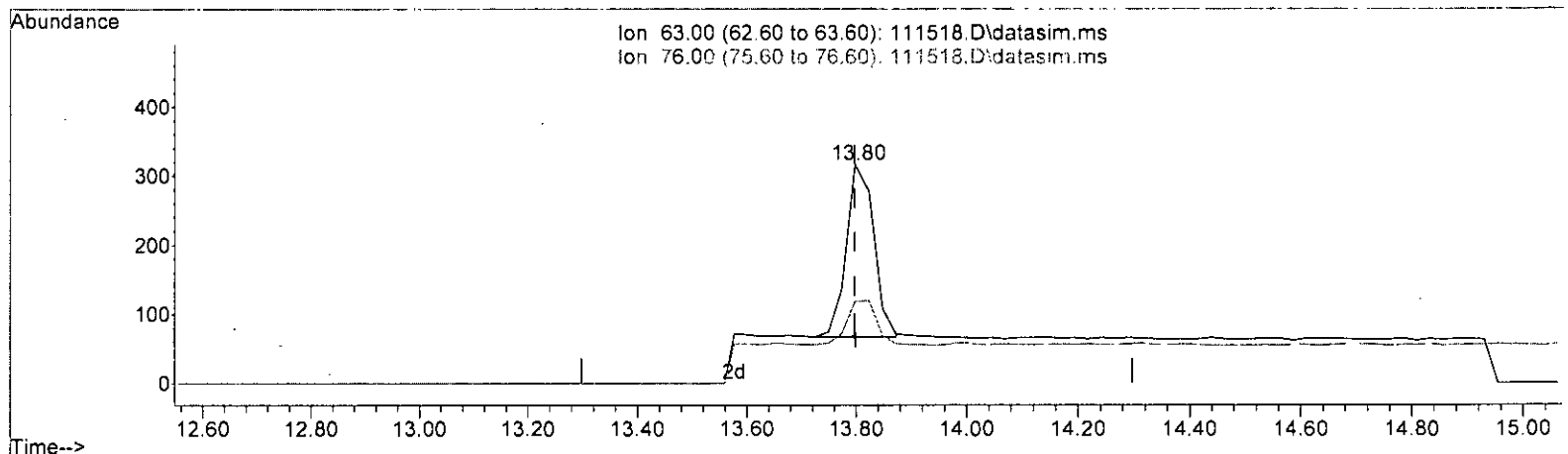
(40) 1,2-Dichloropropane (TMP)		
13.798min (+ 0.000)	0.088 ppbv	
response	1336	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	24.60
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(40) 1,2-Dichloropropane (TMP)  
 13.798min (+ 0.000) 0.056 ppbv m

response	856	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	37.34
0.00	0.00	0.00
0.00	0.00	0.00

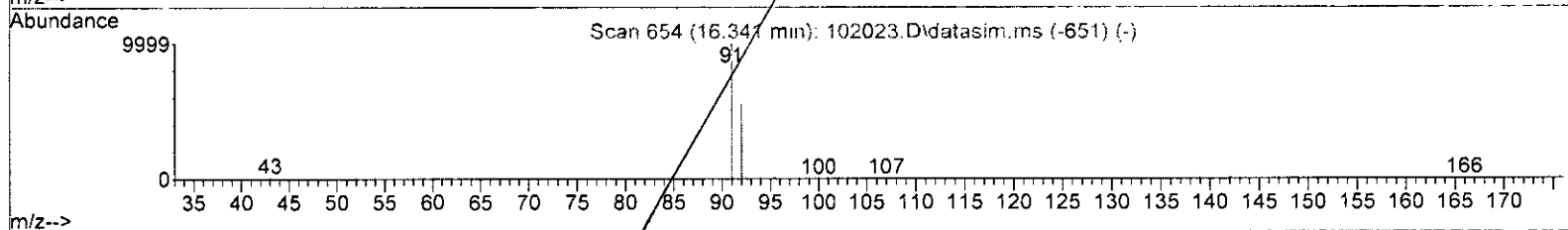
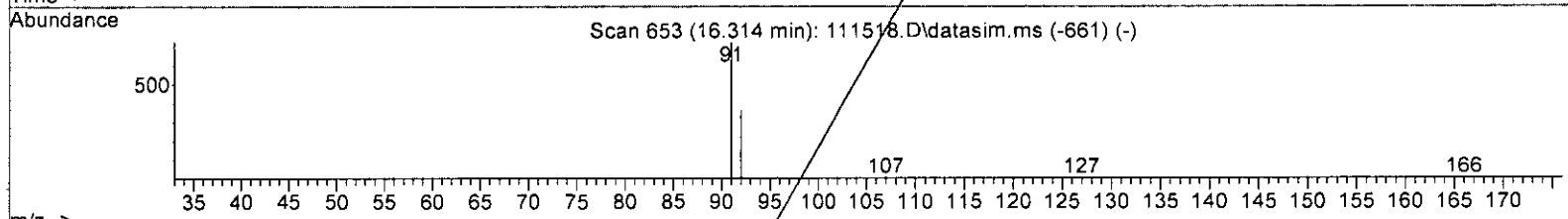
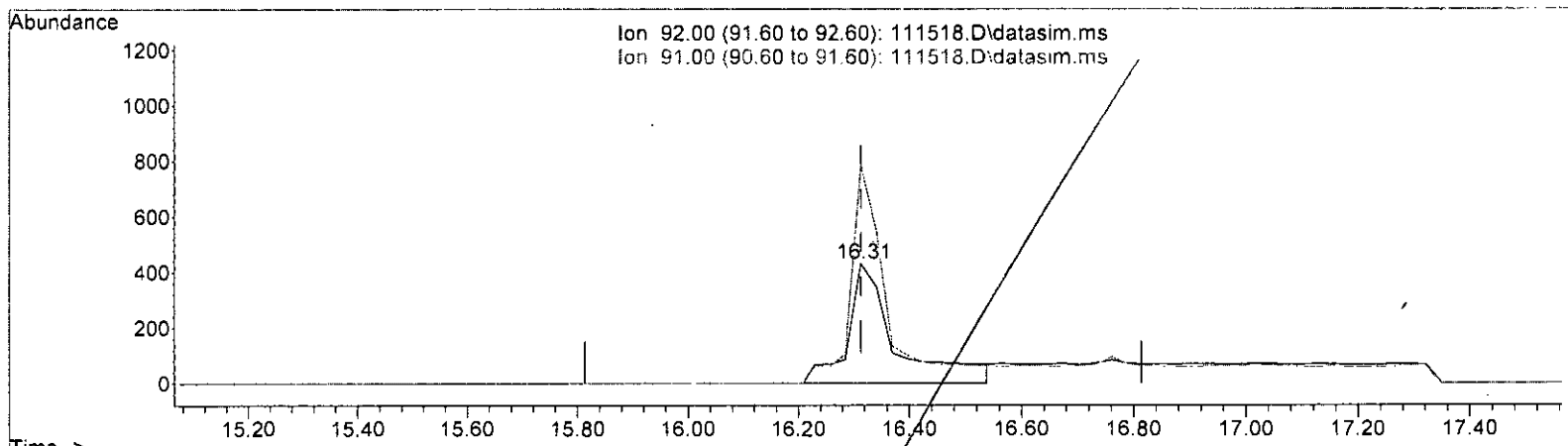
W  
11/18/22



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

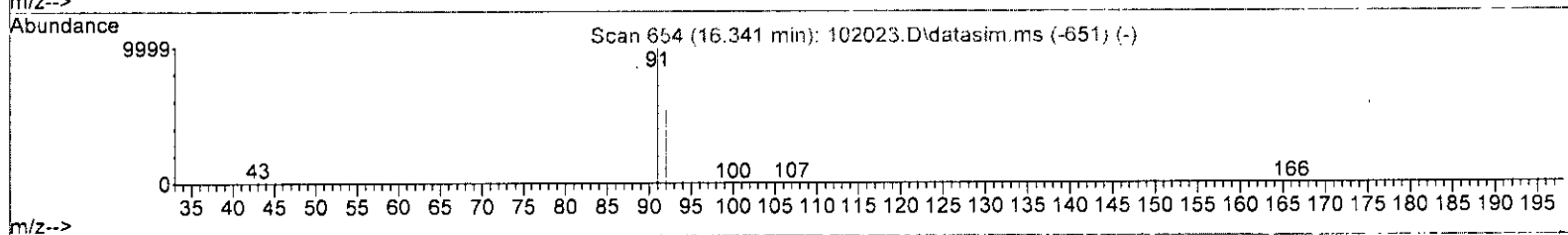
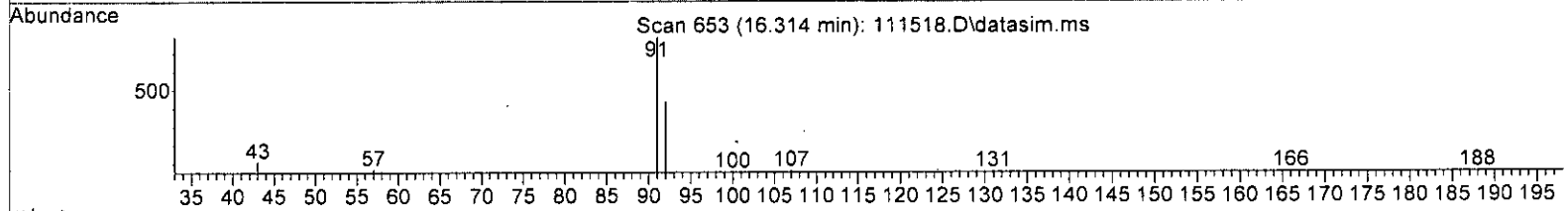
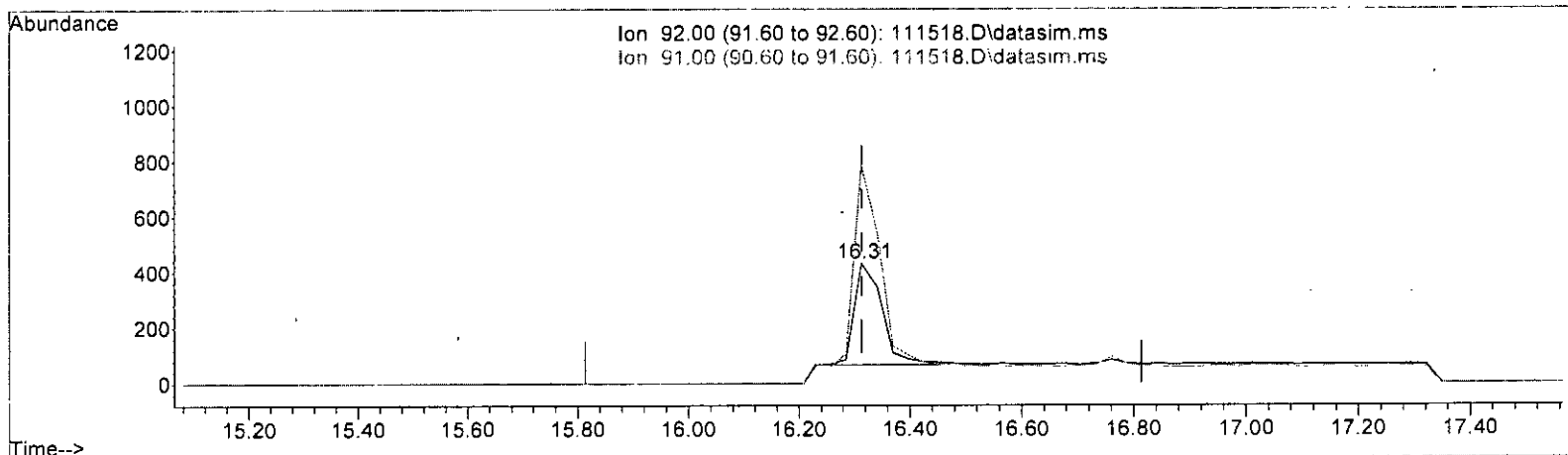
(50) Toluene (TMP)		
16.314min (-0.000) 0.127 ppbv		
response	2526	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	182.13
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

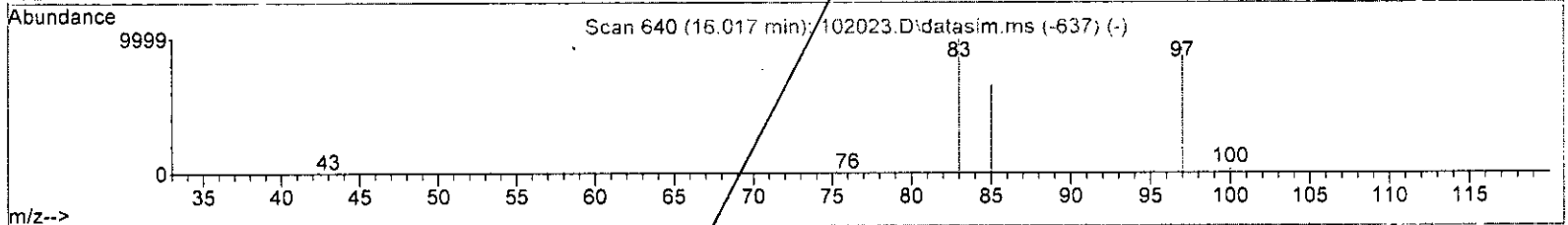
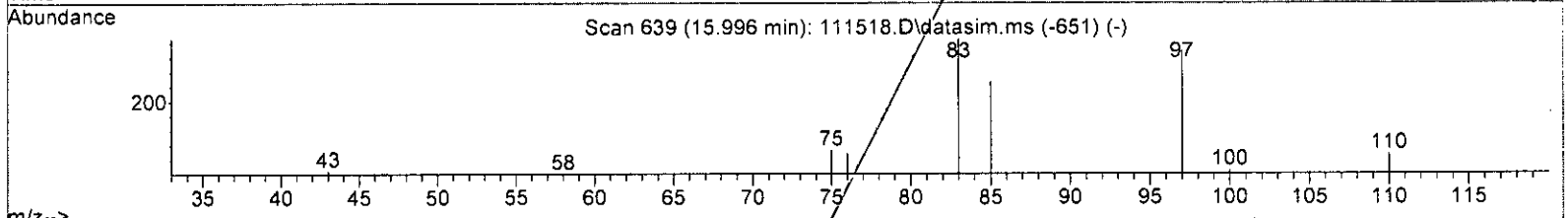
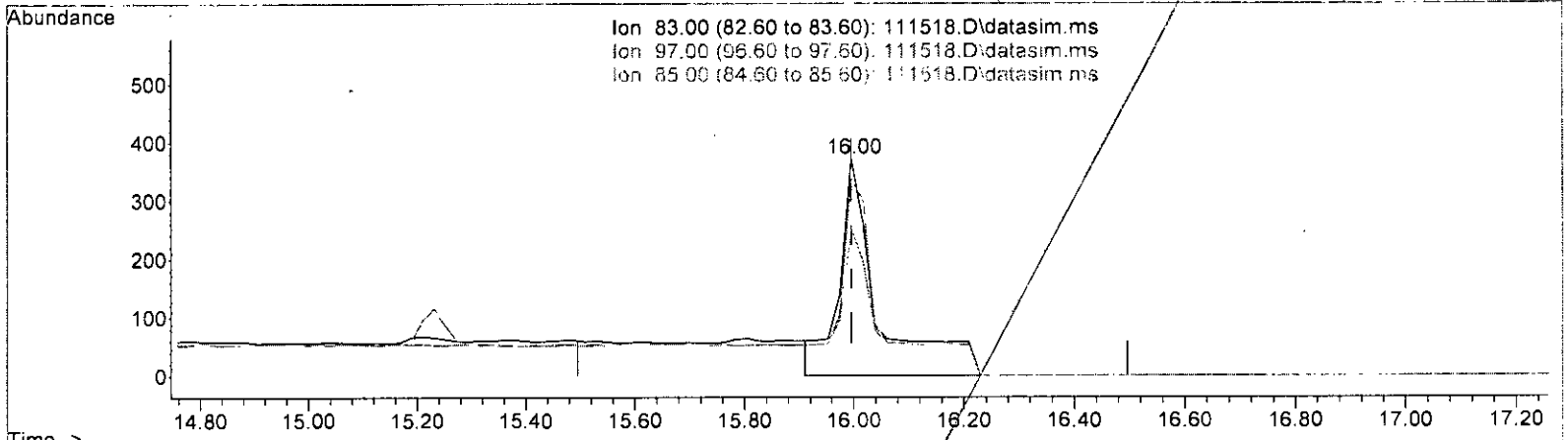
(50)	Toluene (TMP)		
16.314min	(-0.000)	0.063 ppbv m	
response	1263		
Ion	Exp%	Act%	
92.00	100.00	100.00	
91.00	204.60	182.13	
0.00	0.00	0.00	
0.00	0.00	0.00	

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111518.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)

15.996min (-0.000) 0.122 ppbv

response 1887

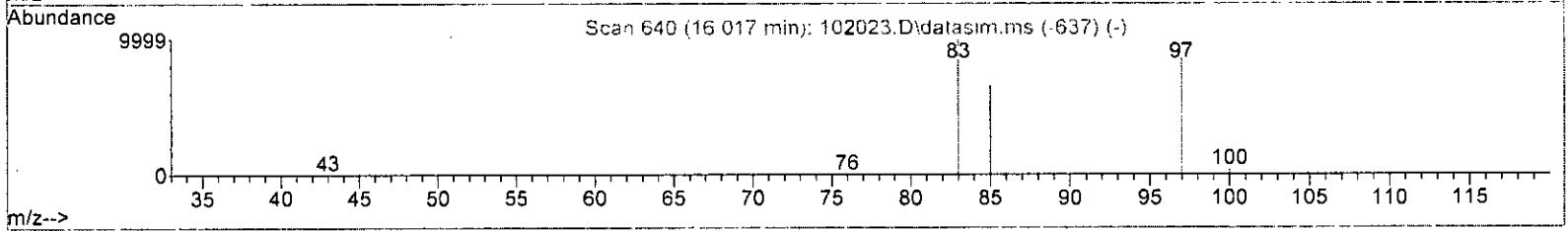
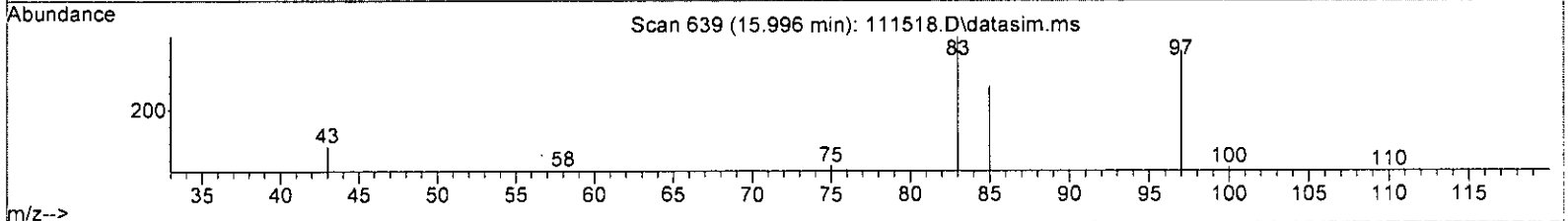
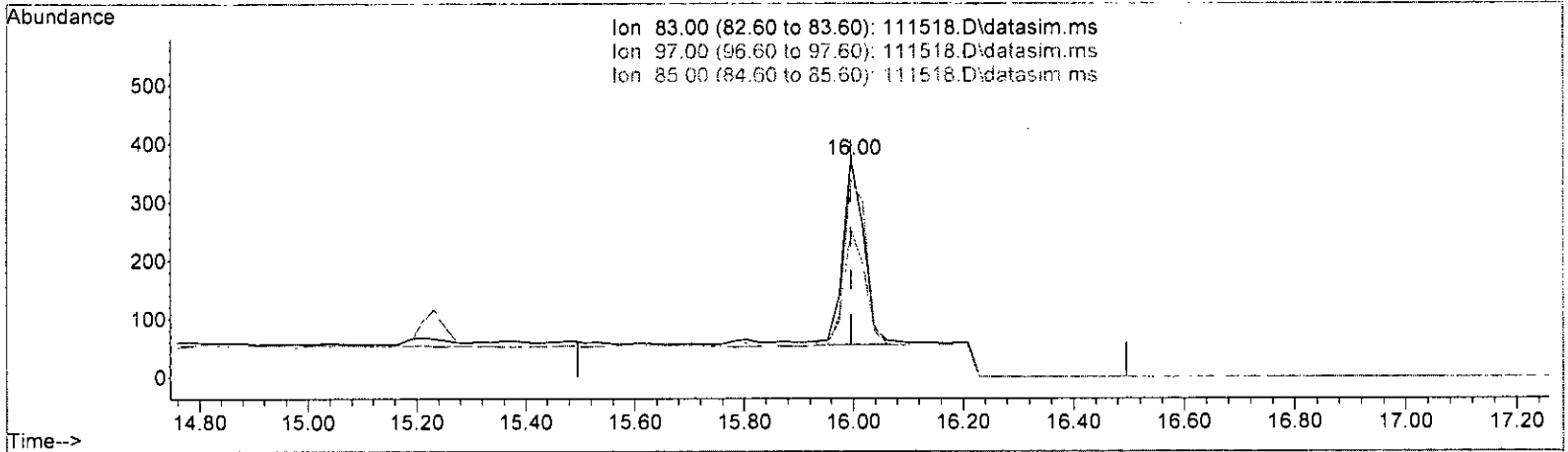
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	90.59
85.00	60.50	68.01
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)  
 15.996min (-0.000) 0.052 ppbv m  
 response 841

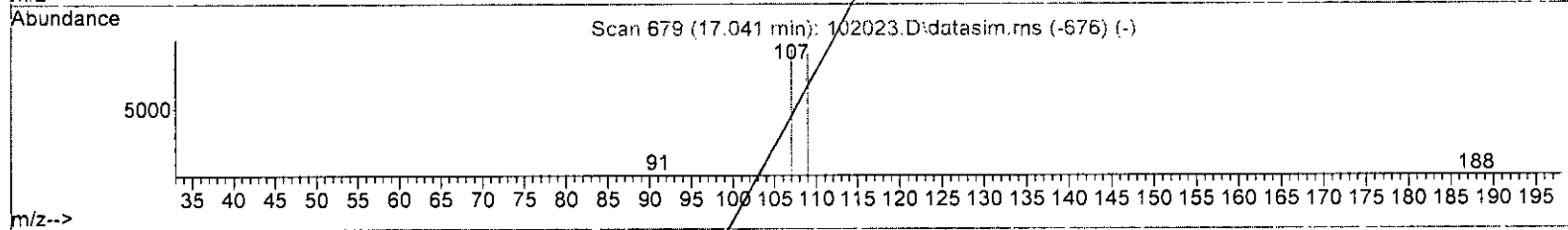
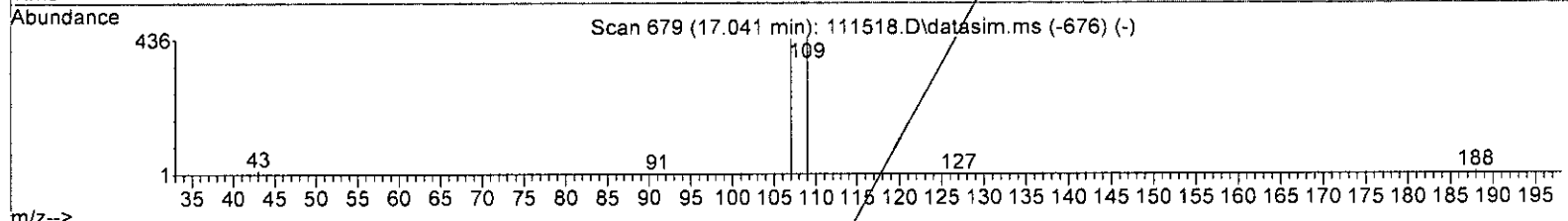
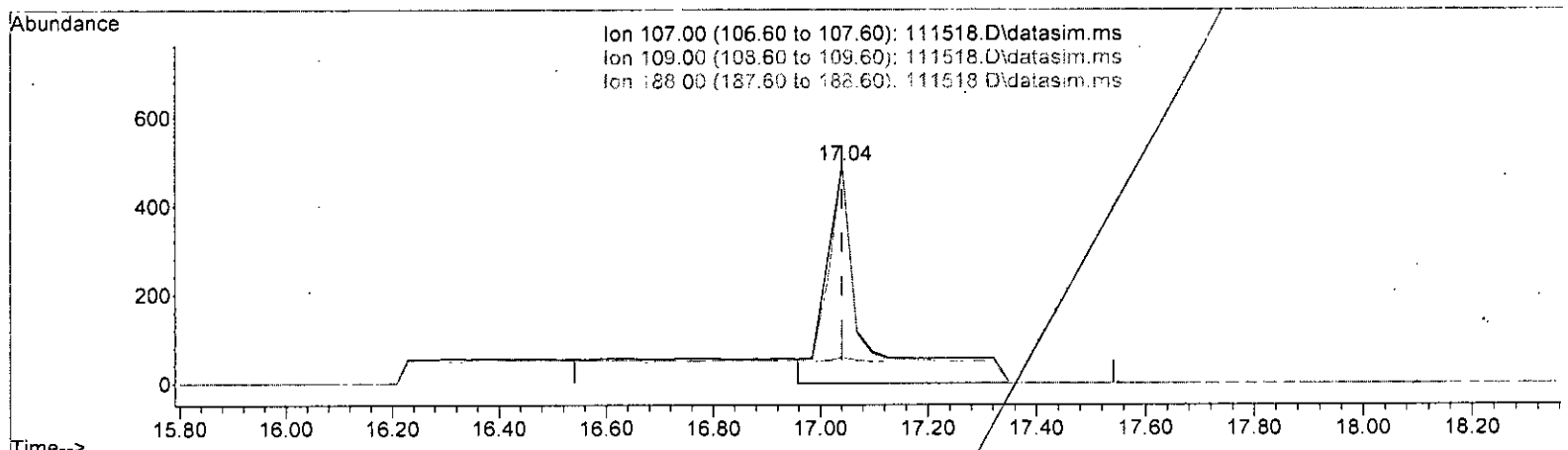
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	90.59
85.00	60.50	68.01
0.00	0.00	0.00

*W/Alaska*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.041min (+ 0.000) 0.103 ppbv

response 2373

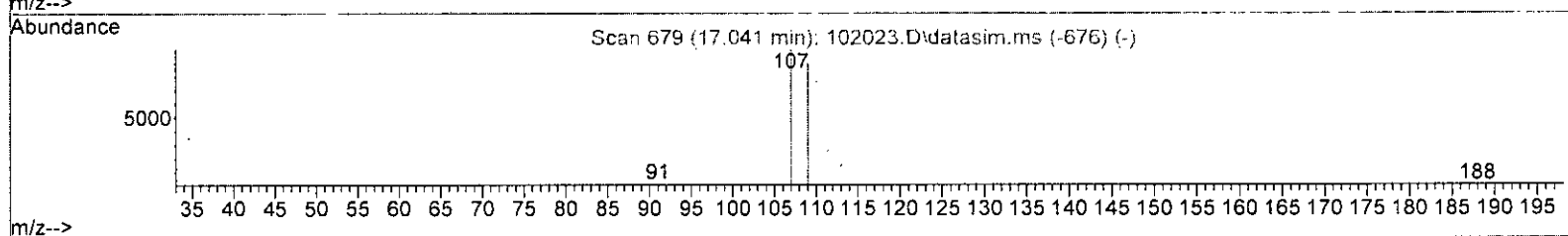
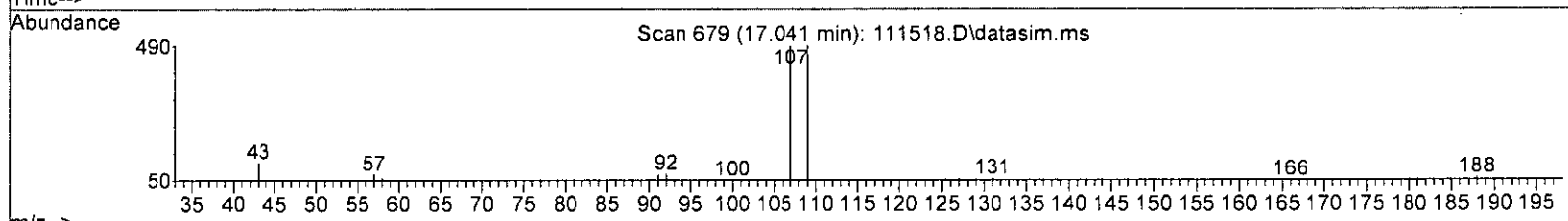
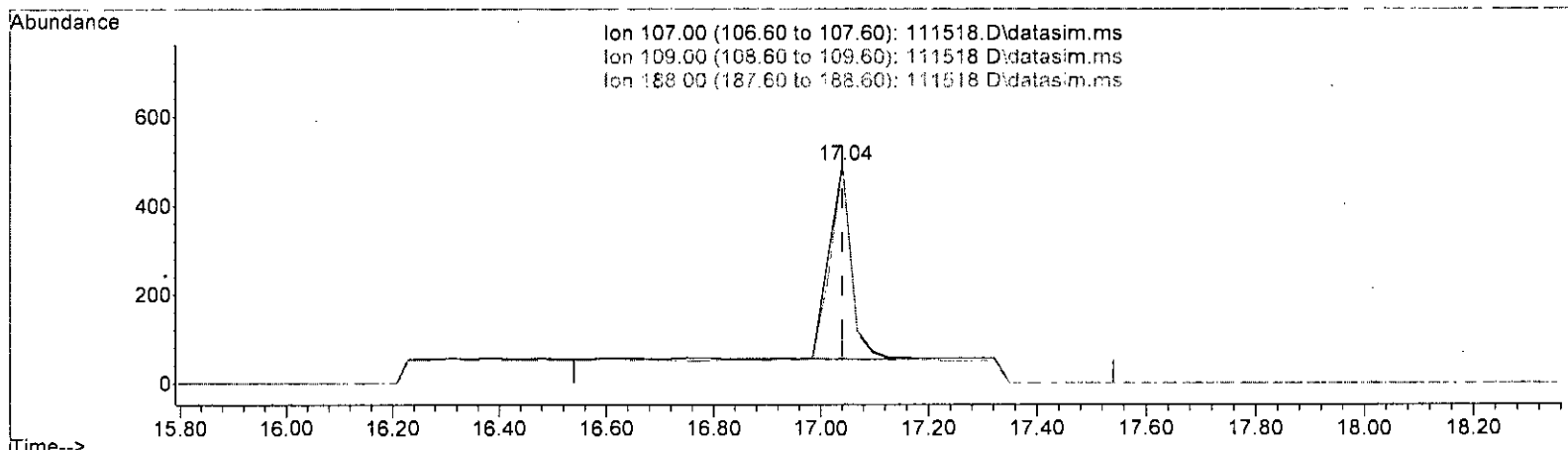
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	99.59
188.00	2.70	11.81
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.041min (+ 0.000) 0.052 ppbv m

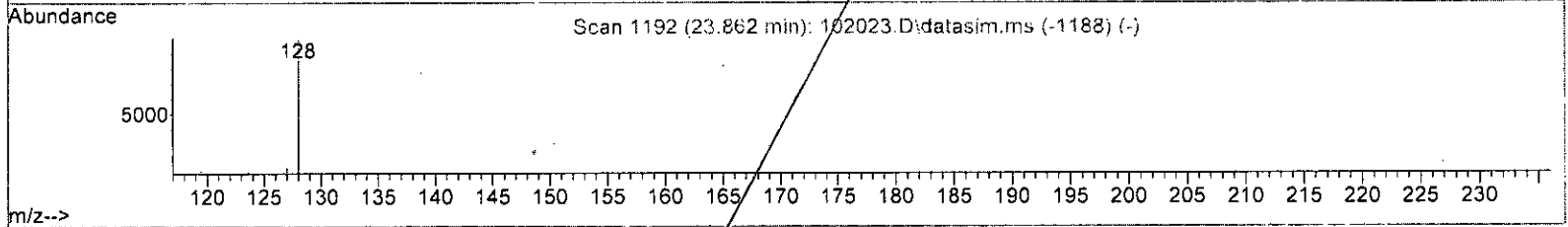
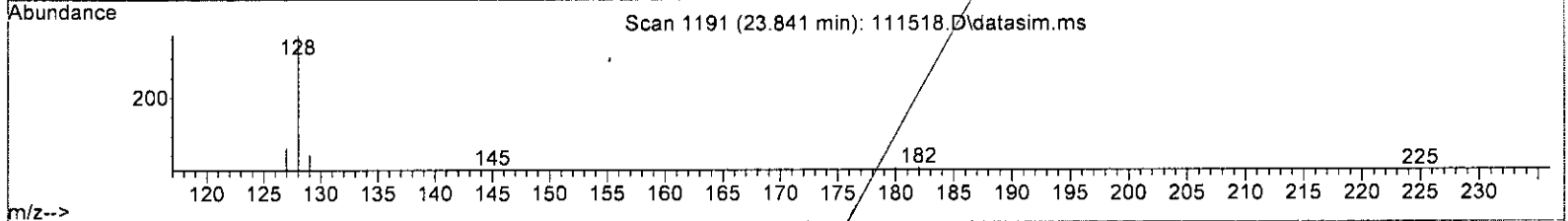
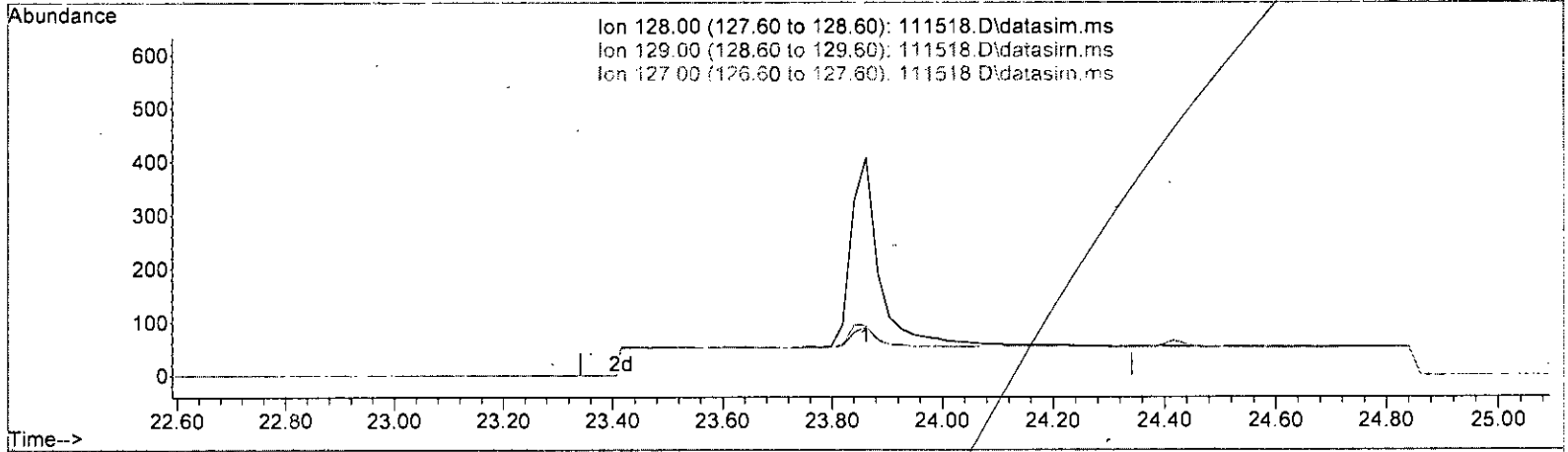
response	1266
Ion	Exp% Act%
107.00	100.00 100.00
109.00	104.60 99.59
188.00	2.70 11.81
0.00	0.00 0.00

*W. Hester*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

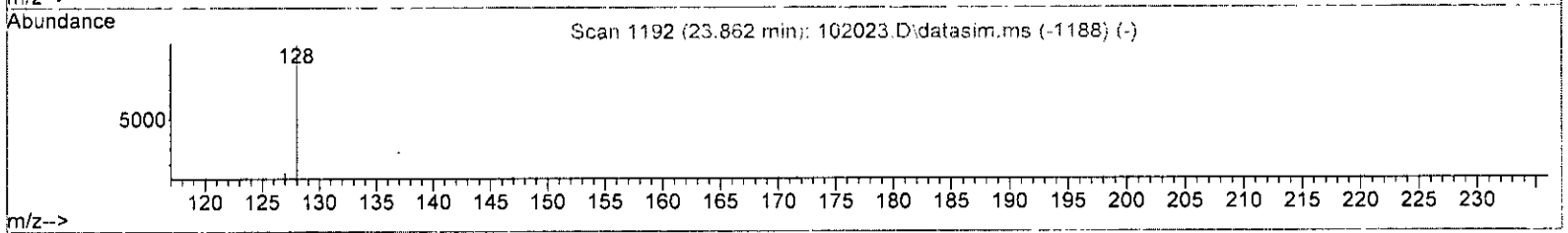
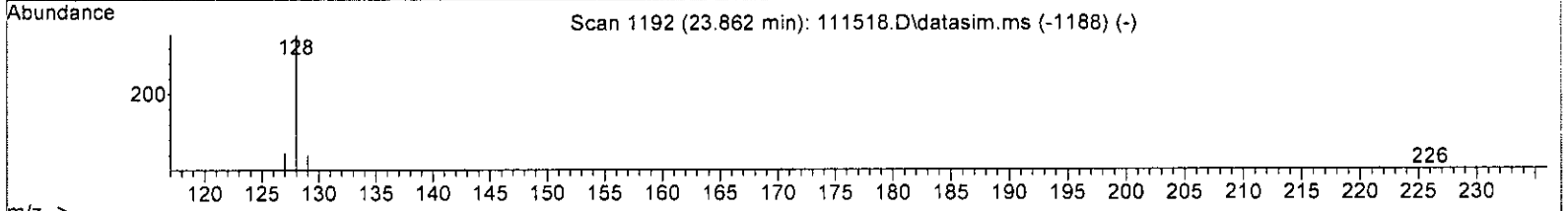
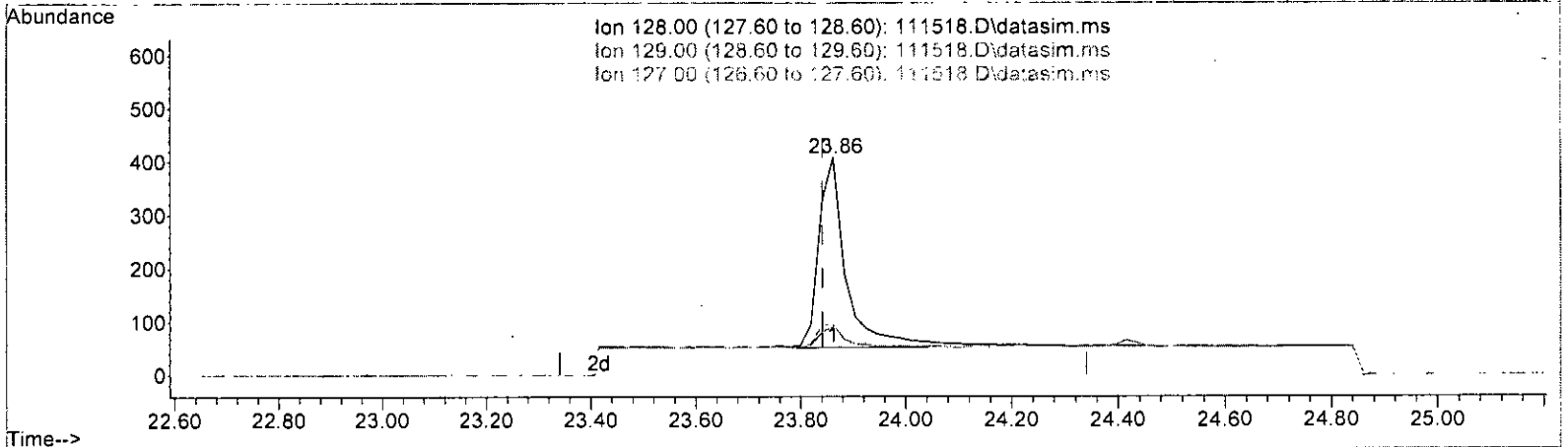
(77) Naphthalene (TMP)		
23.841min	0.000 ppbv d	
response	0	
Ion	Exp%	Act%
128.00	100.00	0.00
129.00	11.00	0.00
127.00	13.20	0.00
0.00	0.00	0.00

*Handwritten signature: W. H. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(77) Naphthalene (TMP)			
23.862min (+ 0.021)		0.046 ppbv m	
response	1321		
Ion	Exp%	Act%	
128.00	100.00	100.00	
129.00	11.00	22.36	
127.00	13.20	23.34	
0.00	0.00	0.00	

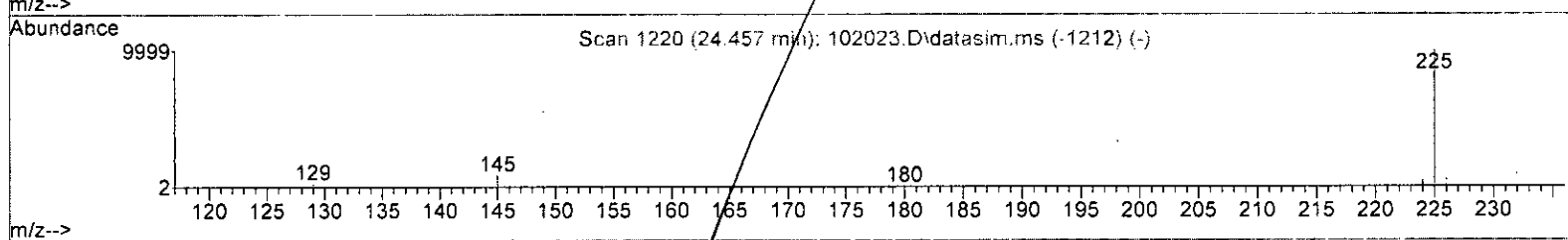
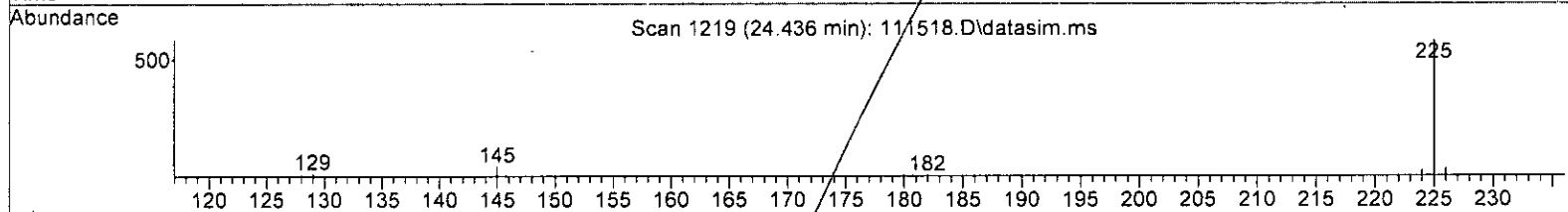
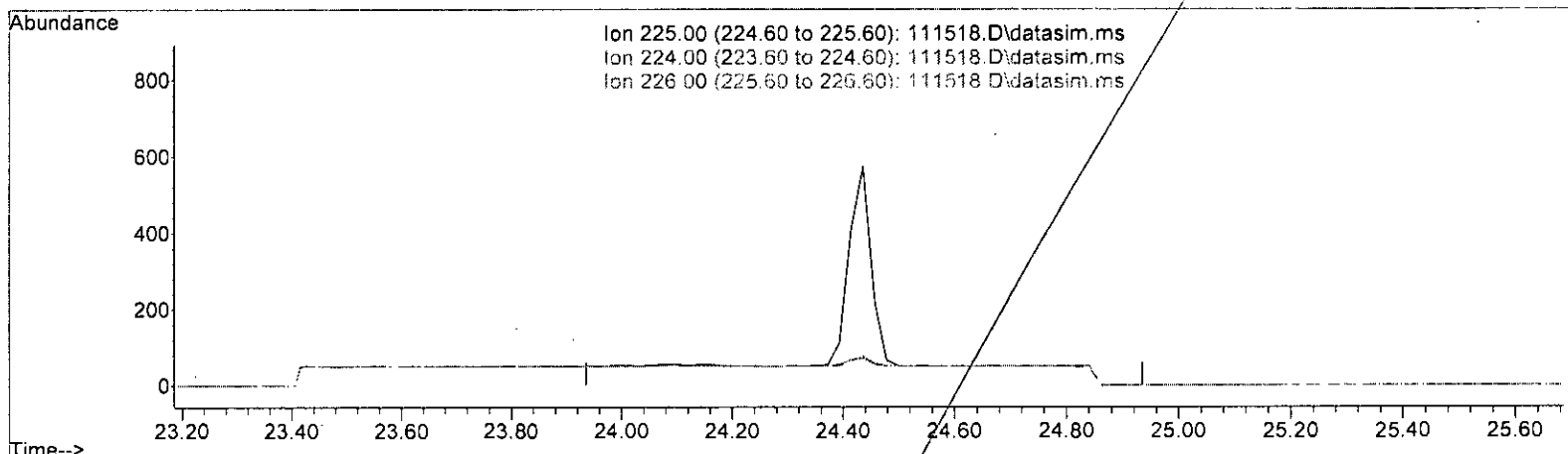
W/11/18/22



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(78) Hexachlorobutadiene (TMP)

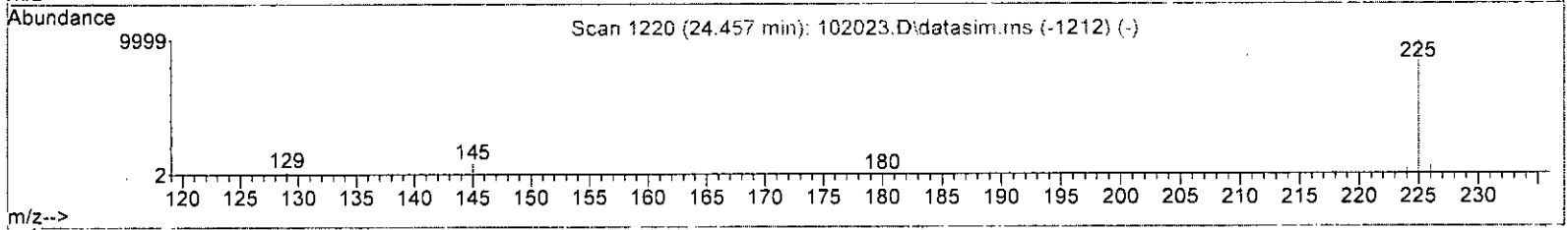
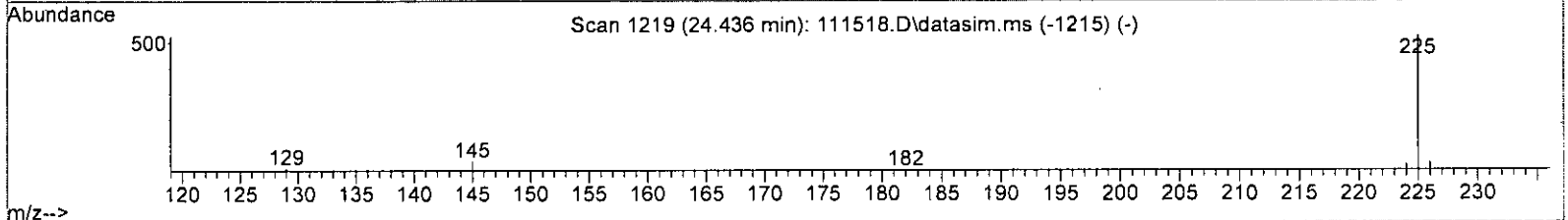
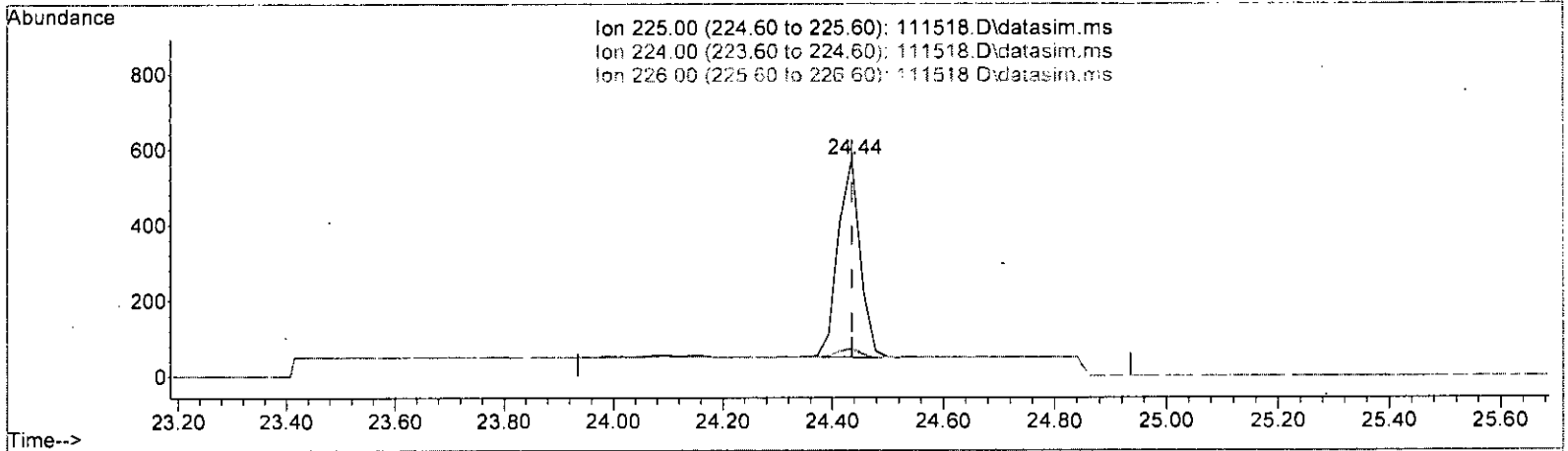
24.436min	0.000 ppbv	d
response	0	
Ion	Exp%	Act%
225.00	100.00	0.00
224.00	3.70	0.00
226.00	5.20	0.00
0.00	0.00	0.00

*Handwritten signature: W. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111518.D\data.ms

(78) Hexachlorobutadiene (TMP)

24.436min (+ 0.000) 0.055 ppbv m

response 1447

Ion	Exp%	Act%
225.00	100.00	100.00
224.00	3.70	12.37
226.00	5.20	13.41
0.00	0.00	0.00

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	63103	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	281669	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	250812	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	157021	9.034	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	90.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0	N.D.	d	
3) Dichlorodifluoromethane	3.49	85	1633	0.063	ppbv	76
4) Chloromethane	0.00		0	N.D.	d	
5) F-114	3.84	85	1659	0.062	ppbv	72
6] Vinyl chloride	4.05	62	632	0.054	ppbv	90
7] 1,3-Butadiene	4.17	54	398m	0.052	ppbv	
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	0.00		0	N.D.	d	
10) Chloroethane	0.00		0	N.D.	d	
11] Vinyl bromide	5.28	106	483m	0.048	ppbv	
12) Ethanol	0.00		0	N.D.	d	
13] Acrolein	5.38	56	304m	0.066	ppbv	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	0.00		0	N.D.	d	
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	0.00		0	N.D.	d	
18] 1,1-Dichloroethene	6.63	96	495m	0.048	ppbv	
19] trans-1,2-Dichloroethene	8.07	96	563	0.056	ppbv	90
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	0.00		0	N.D.	d	
23) CFC-113	7.12	101	1256	0.057	ppbv	88
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	0.00		0	N.D.	d	
26) Vinyl acetate	0.00		0	N.D.	d	
27] 1,1-Dichloroethane	8.36	63	1150	0.055	ppbv	98
28] cis-1,2-Dichloroethene	9.62	96	579m	0.054	ppbv	
29) Hexane	0.00		0	N.D.	d	
30] Chloroform	10.08	83	1372	0.051	ppbv	99
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	0.00		0	N.D.	d	
33) 2-Butanone (MEK)	0.00		0	N.D.	d	
34] 1,2-Dichloroethane (EDC)	11.34	62	867	0.049	ppbv	98
35] 1,1,1-Trichloroethane	11.83	97	1144m	0.054	ppbv	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37) Benzene	0.00		0	N.D.	d	
38) Cyclohexane	0.00		0	N.D.	d	
40] 1,2-Dichloropropane	13.80	63	856m	0.056	ppbv	

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

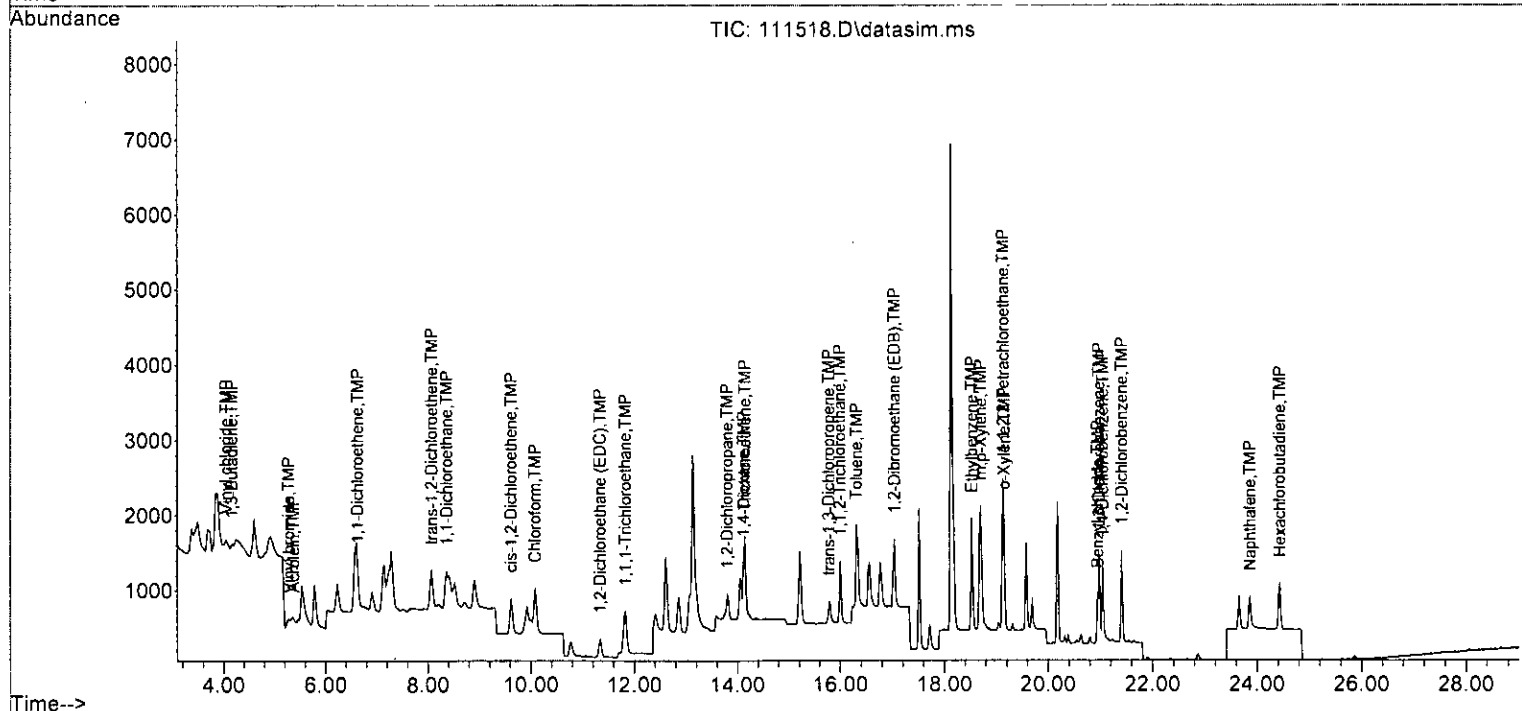
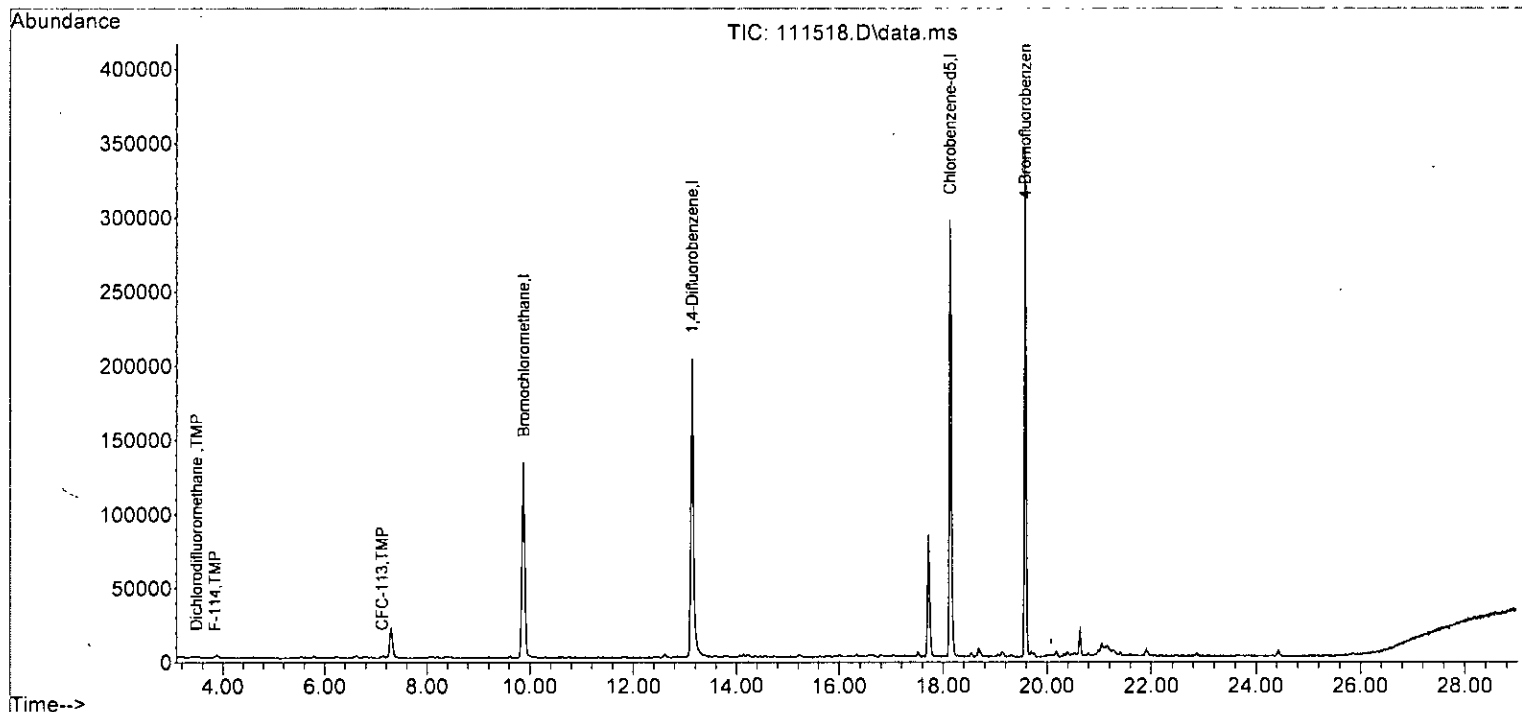
Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.12	88	382	0.059	ppbv	85
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45) Bromodichloromethane	0.00		0	N.D.	d	
46] Trichloroethene	14.14	95	945	0.057	ppbv	96
47) cis-1,3-Dichloropropene	0.00		0	N.D.	d	
48) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
49] trans-1,3-Dichloropropene	15.78	75	928	0.059	ppbv	83
50] Toluene	16.31	92	1263m	0.063	ppbv	
51] 1,1,2-Trichloroethane	16.00	83	841m	0.052	ppbv	
52) 2-Hexanone	0.00		0	N.D.	d	
53) Tetrachloroethene	0.00		0	N.D.	d	
54) Dibromochloromethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	1266m	0.052	ppbv	
57) Chlorobenzene	0.00		0	N.D.	d	
58] Ethylbenzene	18.53	91	2518	0.049	ppbv	98
59] 1,1,2,2-Tetrachloroethane	19.13	83	1926	0.053	ppbv	92
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	0.00		0	N.D.	d	
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63) Propylbenzene	0.00		0	N.D.	d	
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65] m,p-Xylene	18.70	106	1620	0.102	ppbv	98
66] o-Xylene	19.15	106	795	0.052	ppbv	100
67) Styrene	0.00		0	N.D.	d	
68) Bromoform	0.00		0	N.D.	d	
70] Benzyl chloride	20.95	91	1039	0.037	ppbv	96
71) 1,3,5-Trimethylbenzene	0.00		0	N.D.	d	
72) 1,2,4-Trimethylbenzene	0.00		0	N.D.	d	
73] 1,3-Dichlorobenzene	20.98	146	1181	0.047	ppbv	97
74] 1,4-Dichlorobenzene	21.05	146	1098	0.046	ppbv	95
75] 1,2-Dichlorobenzene	21.41	146	1211	0.047	ppbv	97
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.	d	
77] Naphthalene	23.86	128	1321m	0.046	ppbv	
78] Hexachlorobutadiene	24.44	225	1447m	0.055	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	-1.000	0.000	0.0	0	-3.41#
3 TMP Dichlorodifluoromethane	0.050	0.063	-26.0	100	0.00
4 TMP Chloromethane	-1.000	0.000	0.0	0	-3.73#
5 TMP F-114	0.050	0.062	-24.0	100	-0.04
6 TMP Vinyl chloride	0.050	0.054	-8.0	100	-0.04
7 TMP 1,3-Butadiene	0.050	0.052	-4.0	96	-0.12
8 TMP Butane	-1.000	0.000	0.0	0	-4.32#
9 TMP Bromomethane	-1.000	0.000	0.0	0	-4.60#
10 TMP Chloroethane	-1.000	0.000	0.0	0	-4.84#
11 TMP Vinyl bromide	0.050	0.048	4.0	91	-0.04
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.96#
13 TMP Acrolein	0.050	0.066	-32.0#	111	-0.04
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	-1.000	0.000	0.0	0	-5.84#
16 TMP Acetone	-1.000	0.000	0.0	0	-5.57#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	0.050	0.048	4.0	79	0.00
19 TMP trans-1,2-Dichloroethene	0.050	0.056	-12.0	100	-0.03
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.80#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	-1.000	0.000	0.0	0	-6.94#
23 TMP CFC-113	0.050	0.057	-14.0	100	-0.03
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-8.43#
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.54#
27 TMP 1,1-Dichloroethane	0.050	0.055	-10.0	100	0.00
28 TMP cis-1,2-Dichloroethene	0.050	0.054	-8.0	94	-0.02
29 TMP Hexane	-1.000	0.000	0.0	0	-10.01#
30 TMP Chloroform	0.050	0.051	-2.0	100	-0.02
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.92#
32 TMP Tetrahydrofuran	-1.000	0.000	0.0	0	-10.75#
33 TMP 2-Butanone (MEK)	-1.000	0.000	0.0	0	-8.91#
34 TMP 1,2-Dichloroethane (EDC)	0.050	0.049	2.0	100	0.00
35 TMP 1,1,1-Trichloroethane	0.050	0.054	-8.0	97	0.00
36 TMP Carbon tetrachloride	0.050	0.000	100.0#	0	-12.86#
37 TMP Benzene	0.050	0.000	100.0#	0	-12.61#
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.07#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.050	0.056	-12.0	96	0.00
41 TMP 1,4-Dioxane	0.050	0.059	-18.0	100	0.02
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.24#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.56#
45 TMP Bromodichloromethane	0.050	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	0.050	0.057	-14.0	100	0.00
47 TMP cis-1,3-Dichloropropene	-1.000	0.000	0.0	0	-15.20#
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.23#
49 TMP trans-1,3-Dichloropropene	0.050	0.059	-18.0	100	0.00
50 TMP Toluene	0.050	0.063	-26.0	109	0.00
51 TMP 1,1,2-Trichloroethane	0.050	0.052	-4.0	104	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	-1.000	0.000	0.0	0	-17.52#
54 TMP Dibromochloromethane	0.050	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.050	0.052	-4.0	96	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	-1.000	0.000	0.0	0	-18.19#
58 TMP Ethylbenzene	0.050	0.049	2.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.050	0.053	-6.0	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.30#
61 TMP Isopropylbenzene	-1.000	0.000	0.0	0	-19.70#
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	-1.000	0.000	0.0	0	-20.19#
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.32#
65 TMP m,p-Xylene	0.100	0.102	-2.0	100	0.00
66 TMP o-Xylene	0.050	0.052	-4.0	100	0.00
67 TMP Styrene	-1.000	0.000	0.0	0	-19.05#
68 TMP Bromoform	-1.000	0.000	0.0	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.034	9.7	100	0.00
70 TMP Benzyl chloride	0.050	0.037	26.0	100	0.00
71 TMP 1,3,5-Trimethylbenzene	-1.000	0.000	0.0	0	-20.39#
72 TMP 1,2,4-Trimethylbenzene	-1.000	0.000	0.0	0	-20.80#
73 TMP 1,3-Dichlorobenzene	0.050	0.047	6.0	100	0.00
74 TMP 1,4-Dichlorobenzene	0.050	0.046	8.0	101	0.00
75 TMP 1,2-Dichlorobenzene	0.050	0.047	6.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	-1.000	0.000	0.0	0	-23.64#
77 TMP Naphthalene	0.050	0.046	8.0	102	0.02
78 TMP Hexachlorobutadiene	0.050	0.055	-10.0	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	0.000	100.0#	0#	-3.41#
3 TMP Dichlorodifluoromethane	4.123	5.176	-25.5	100	0.00
4 TMP Chloromethane	1.882	0.000#	100.0#	0#	-3.73#
5 TMP F-114	4.217	5.258	-24.7	100	-0.04
6 TMP Vinyl chloride	1.851	2.003	-8.2	100	-0.04
7 TMP 1,3-Butadiene	1.216	1.261	-3.7	96	-0.12
8 TMP Butane	2.183	0.000	100.0#	0#	-4.32#
9 TMP Bromomethane	1.847	0.000#	100.0#	0#	-4.60#
10 TMP Chloroethane	0.655	0.000#	100.0#	0#	-4.84#
11 TMP Vinyl bromide	1.609	1.531	4.8	91	-0.04
12 TMP Ethanol	0.663	0.000	100.0#	0#	-4.96#
13 TMP Acrolein	0.729	0.964	-32.2#	111	-0.04
14 TMP Pentane	2.461	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.781	0.000#	100.0#	0#	-5.84#
16 TMP Acetone	0.710	0.000#	100.0#	0#	-5.57#
17 TMP 2-Propanol	3.096	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.645	1.569	4.6	79	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.784	-11.6	100	-0.03
20 TMP Methylene chloride	1.479	0.000#	100.0#	0#	-6.80#
21 TMP t-Butyl alcohol (TBA)	2.668	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.056	0.000	100.0#	0#	-6.94#
23 TMP CFC-113	3.469	3.981	-14.8	100	-0.03
24 TMP Carbon disulfide	5.167	0.000	100.0#	0#	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	3.434	0.000#	100.0#	0#	-8.43#
26 TMP Vinyl acetate	3.801	0.000#	100.0#	0#	-8.54#
27 TMP 1,1-Dichloroethane	3.342	3.645	-9.1	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.835	-8.6	94	-0.02
29 TMP Hexane	2.068	0.000	100.0#	0#	-10.01#
30 TMP Chloroform	4.060	4.348	-7.1	100	-0.02
31 TMP Ethyl acetate	3.789	0.000	100.0#	0#	-9.92#
32 TMP Tetrahydrofuran	1.809	0.000	100.0#	0#	-10.75#
33 TMP 2-Butanone (MEK)	0.619	0.000	100.0#	0#	-8.91#
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.748	-2.3	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.626	-8.5	97	0.00
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	0.000#	100.0#	0#	-12.61#
38 TMP Cyclohexane	1.367	0.000	100.0#	0#	-13.07#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.608	-12.4	96	0.00
41 TMP 1,4-Dioxane	0.230	0.271	-17.8	100	0.02
42 TMP 2,2,4-Trimethylpentane	1.598	0.000	100.0#	0#	-14.24#
43 TMP Methyl methacrylate	0.485	0.000	100.0#	0#	-14.36#



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111518.D  
 Acq On : 16 Nov 2022 5:11 am  
 Operator : bat  
 Sample : 0.05 ppbv 67-196D  
 Misc : T4, 250cc of 0.05ppbv  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:05:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.000	100.0#	0#	-14.56#
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.671	-13.2	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.000	100.0#	0#	-15.20#
48 TMP 4-Methyl-2-pentanone	0.044	0.000	100.0#	0#	-15.23#
49 TMP trans-1,3-Dichloropropene	0.563	0.659	-17.1	100	0.00
50 TMP Toluene	0.707	0.897	-26.9	109	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.597	-8.5	104	0.00
52 TMP 2-Hexanone	0.846	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.490	0.000#	100.0#	0#	-17.52#
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.899	-9.1	96	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	0.000#	100.0#	0#	-18.19#
58 TMP Ethylbenzene	1.968	2.008	-2.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.536	-10.2	100	0.00
60 TMP Nonane	0.981	0.000	100.0#	0#	-19.30#
61 TMP Isopropylbenzene	1.792	0.000	100.0#	0#	-19.70#
62 TMP 2-Chlorotoluene	0.448	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.292	0.000	100.0#	0#	-20.19#
64 TMP 4-Ethyltoluene	1.611	0.000	100.0#	0#	-20.32#
65 TMP m,p-Xylene	0.633	0.646	-2.1	100	0.00
66 TMP o-Xylene	0.615	0.634	-3.1	100	0.00
67 TMP Styrene	0.819	0.000#	100.0#	0#	-19.05#
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.626	9.7	100	0.00
70 TMP Benzyl chloride	0.987	0.829	16.0	100	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	0.000	100.0#	0#	-20.39#
72 TMP 1,2,4-Trimethylbenzene	1.247	0.000	100.0#	0#	-20.80#
73 TMP 1,3-Dichlorobenzene	1.012	0.942	6.9	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.876	7.5	101	0.00
75 TMP 1,2-Dichlorobenzene	1.024	0.966	5.7	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.000	100.0#	0#	-23.64#
77 TMP Naphthalene	1.132	1.053	7.0	102	0.02
78 TMP Hexachlorobutadiene	1.045	1.154	-10.4	100	0.00

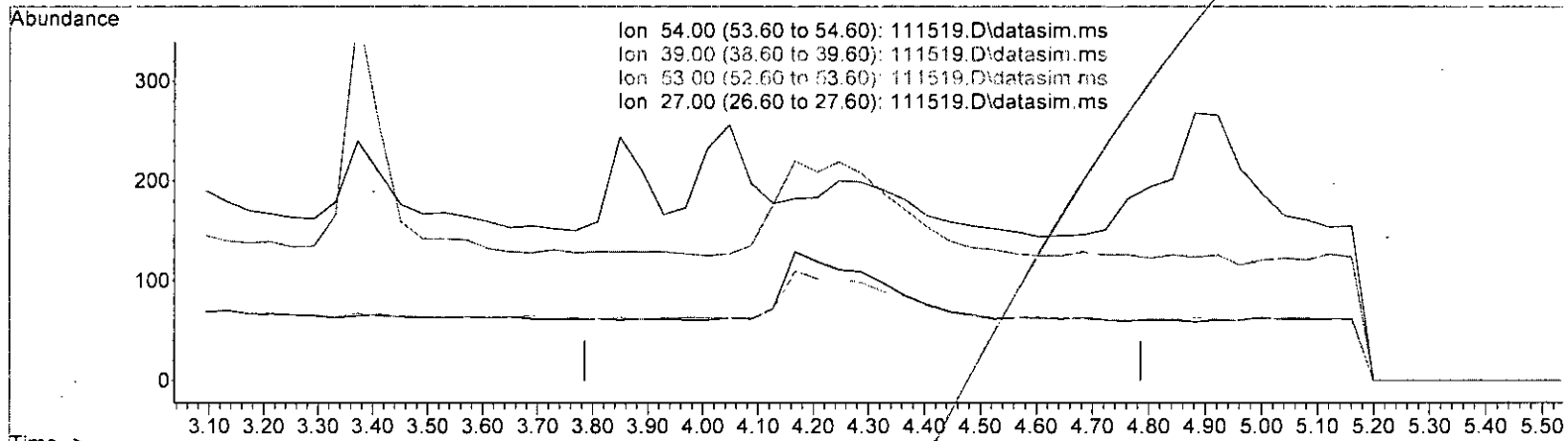
(#) = Out of Range

SPCC's out = 17 CCC's out = 0

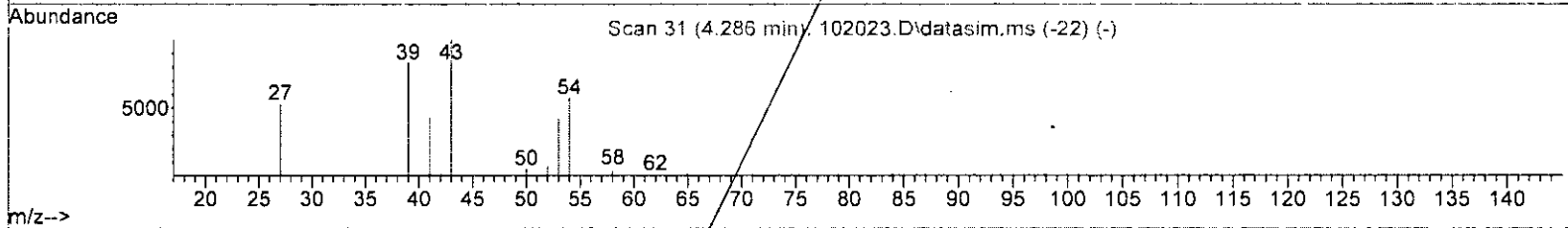
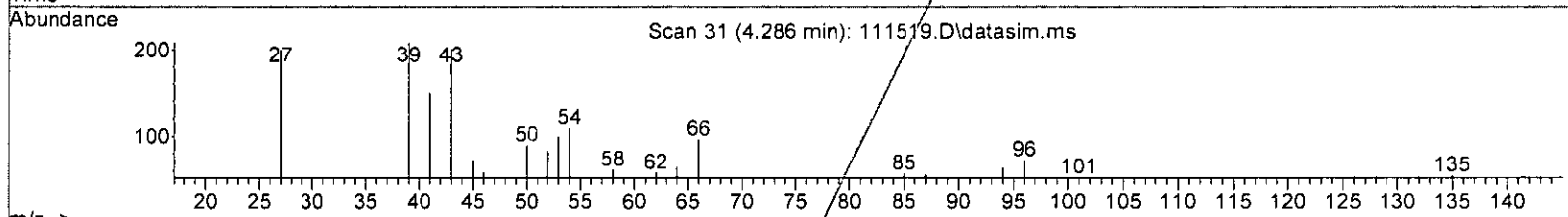
Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Ion 54.00 (53.60 to 54.60): 111519.D\data.ms  
 Ion 39.00 (38.60 to 39.60): 111519.D\data.ms  
 Ion 53.00 (52.60 to 53.60): 111519.D\data.ms  
 Ion 27.00 (26.60 to 27.60): 111519.D\data.ms



TIC: 111519.D\data.ms

(7) 1,3-Butadiene (TMP)  
 4.286min (-4.286) 0.000 ppbv  
 response 0

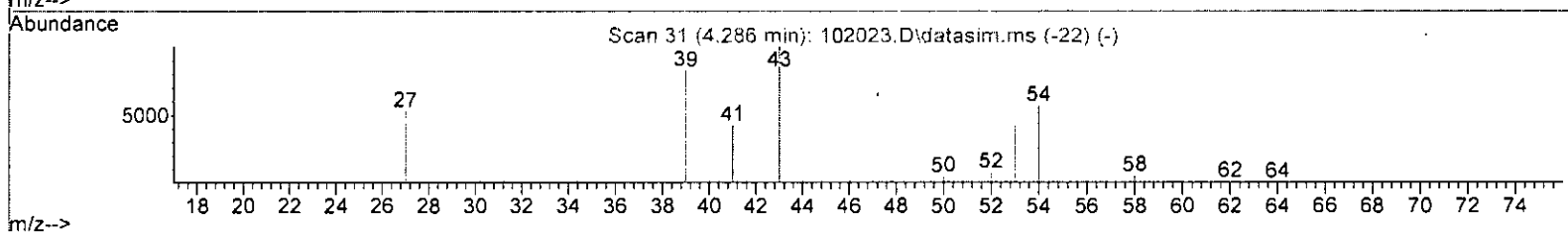
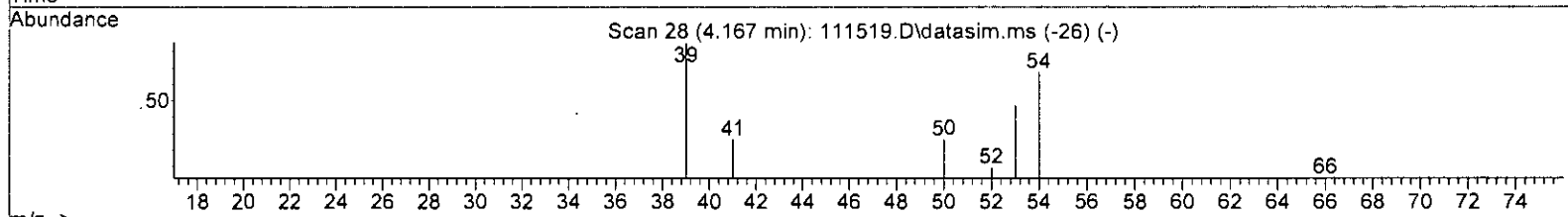
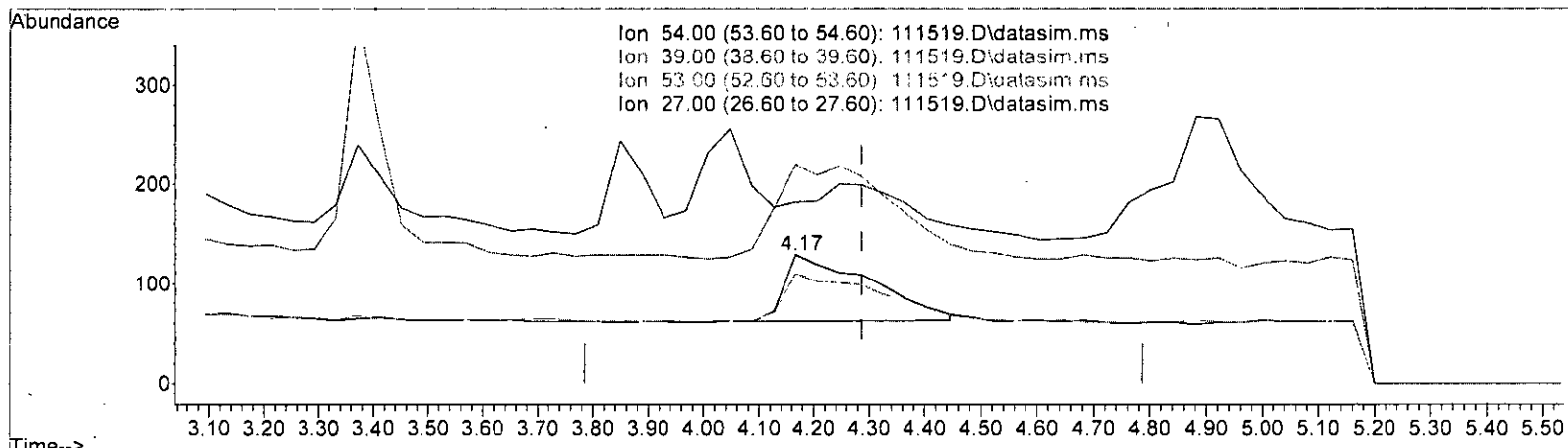
Ion	Exp%	Act%
54.00	100.00	0.00
39.00	127.60	0.00#
53.00	72.40	0.00#
27.00	0.00	0.00

*Handwritten signature and date: W/ 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(7) 1,3-Butadiene (TMP)  
 4.167min (-0.119) 0.096 ppbv m

Ion	Exp%	Act%
54.00	100.00	100.00
39.00	127.60	170.54#
53.00	72.40	85.27
27.00	0.00	141.09#

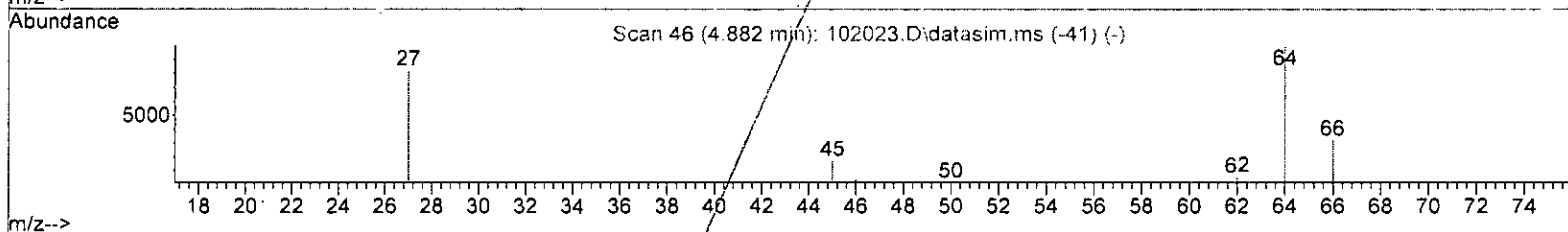
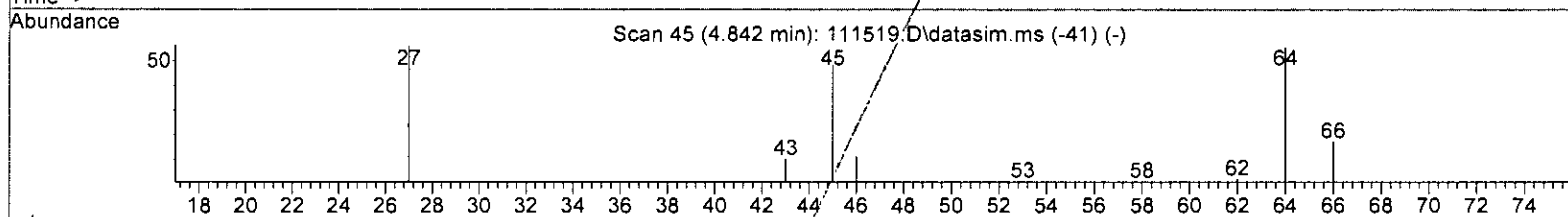
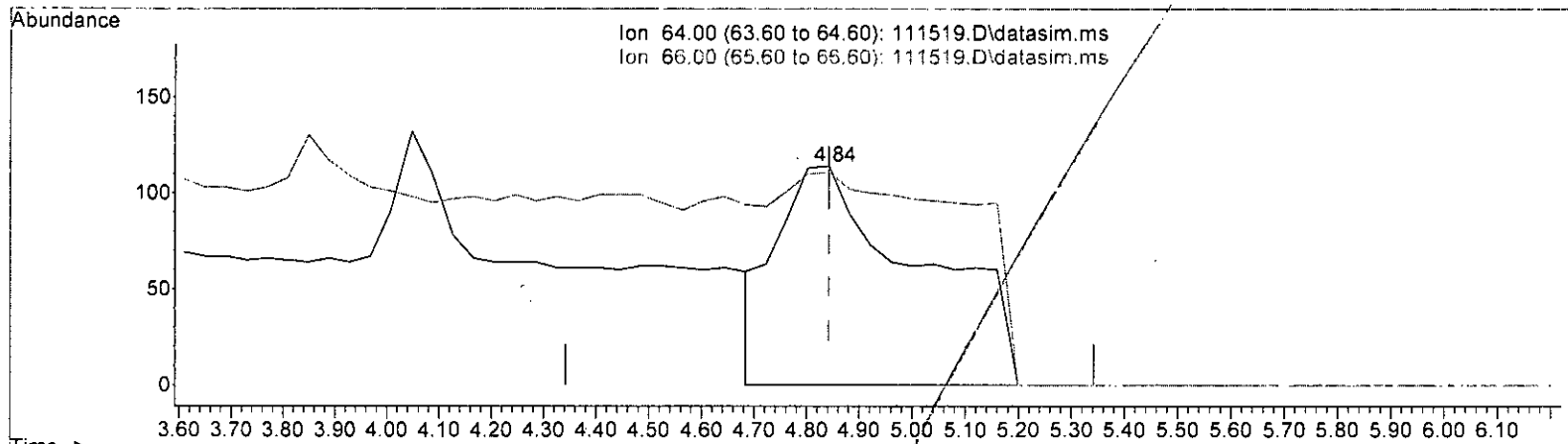
response 728

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(10) Chloroethane (TMP)  
 4.842min (+ 0.000) 0.512 ppbv  
 response 2089

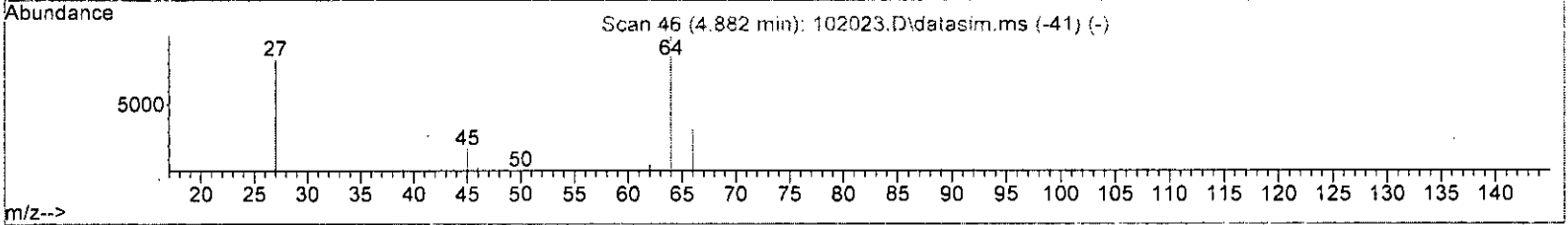
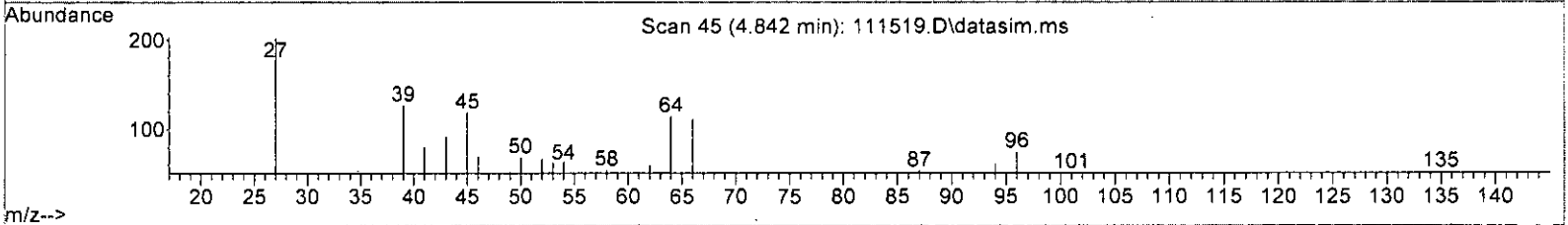
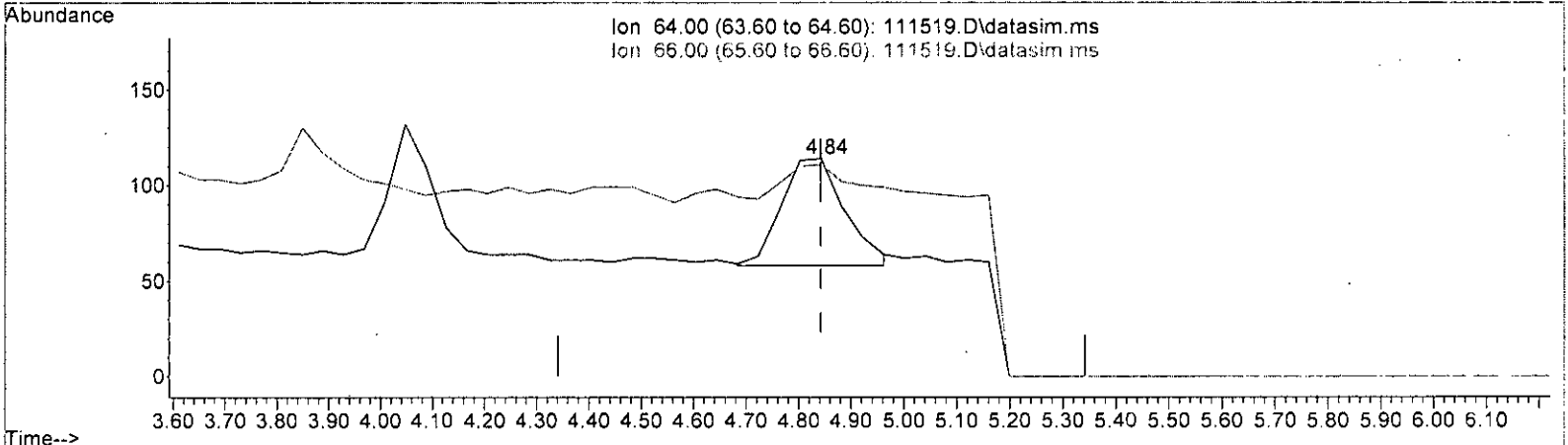
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	97.37#
0.00	0.00	0.00
0.00	0.00	0.00

*bat*  
*11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

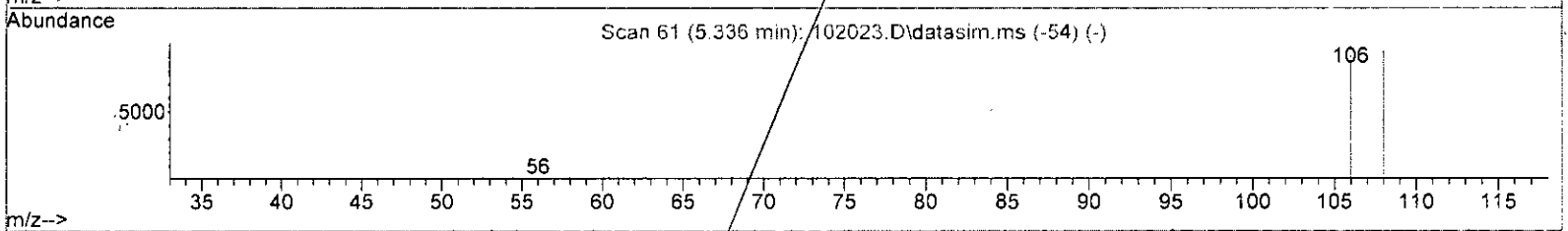
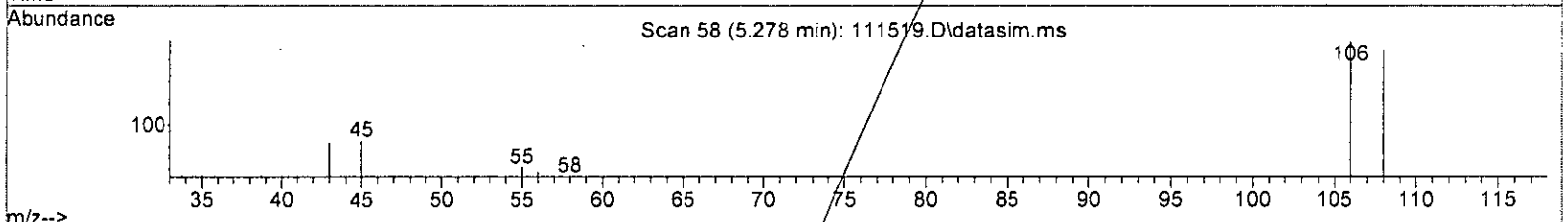
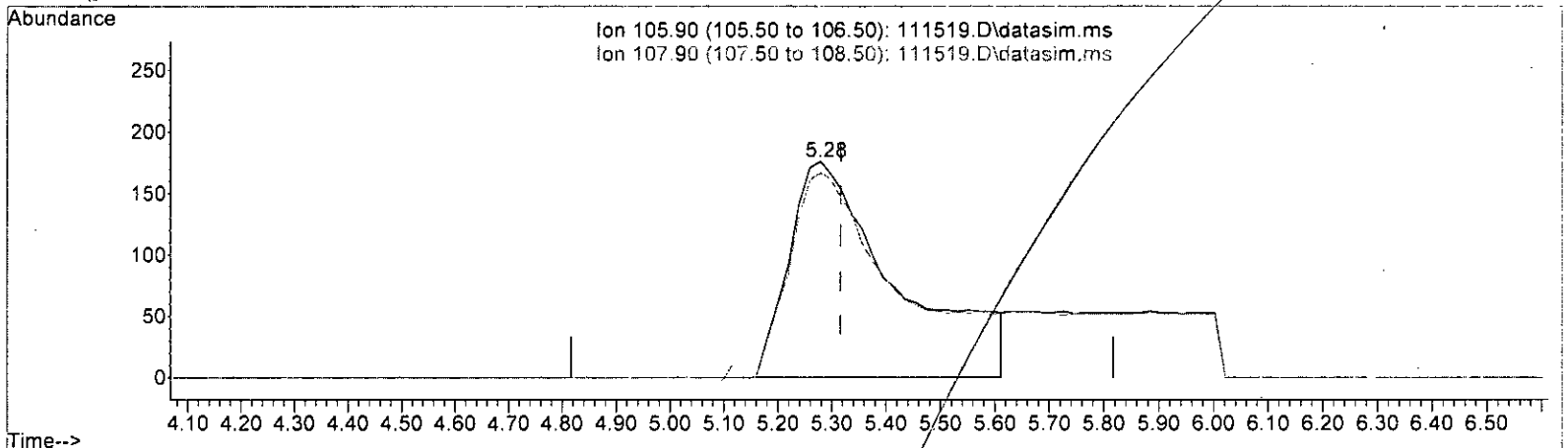
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	0.115 ppbv m	
response	470	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	97.37#
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(11) Vinyl bromide (TMP)  
 5.278min (-0.039) 0.259 ppbv

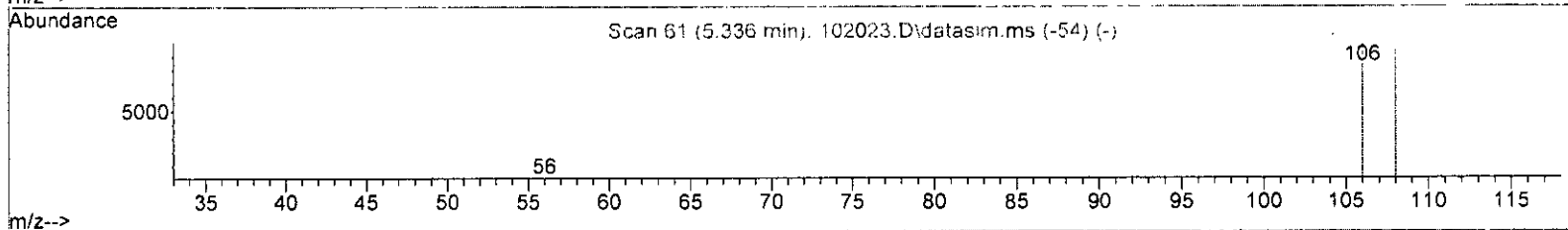
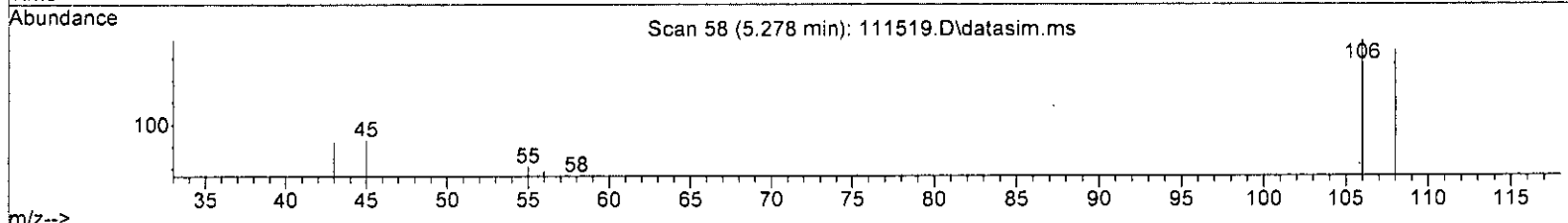
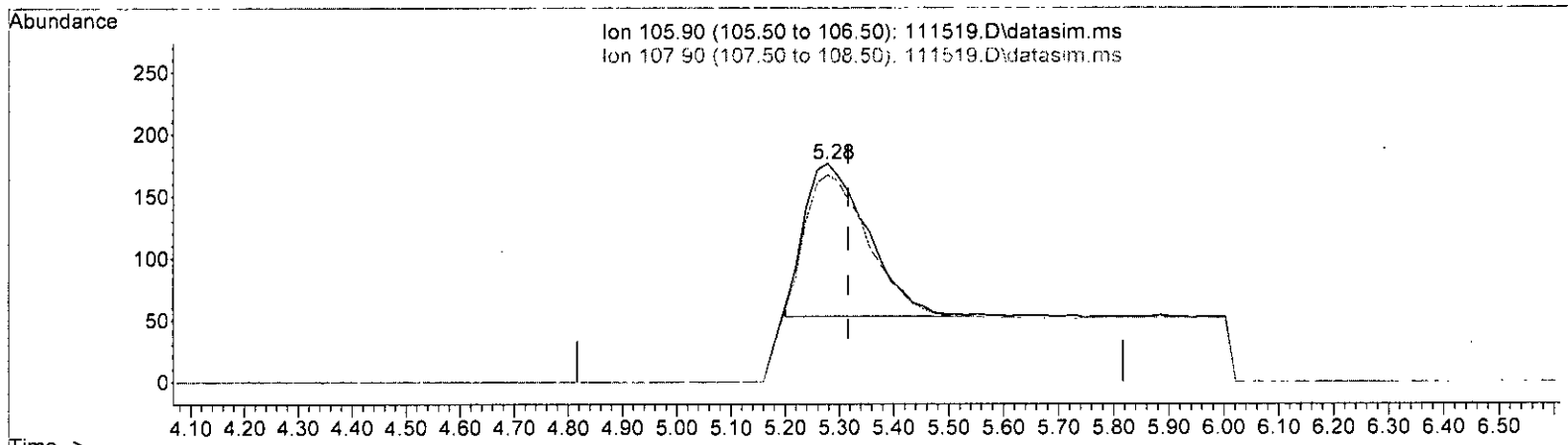
response	2596
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 107.16
0.00	0.00 0.00
0.00	0.00 0.00

*h / (11/18/22)*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

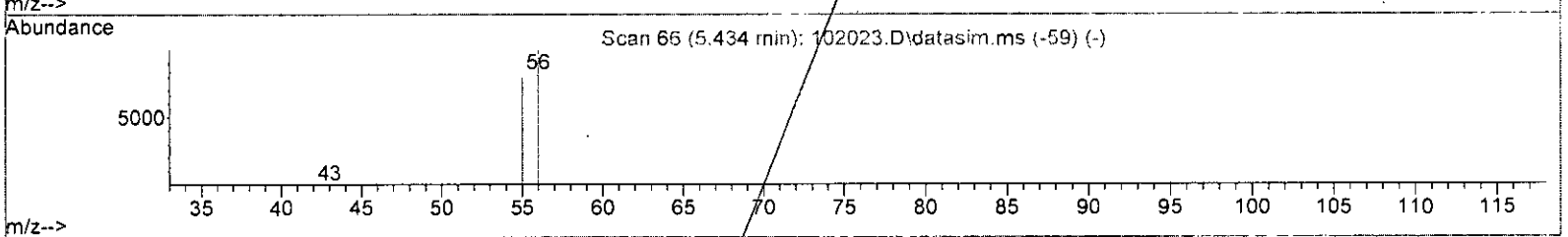
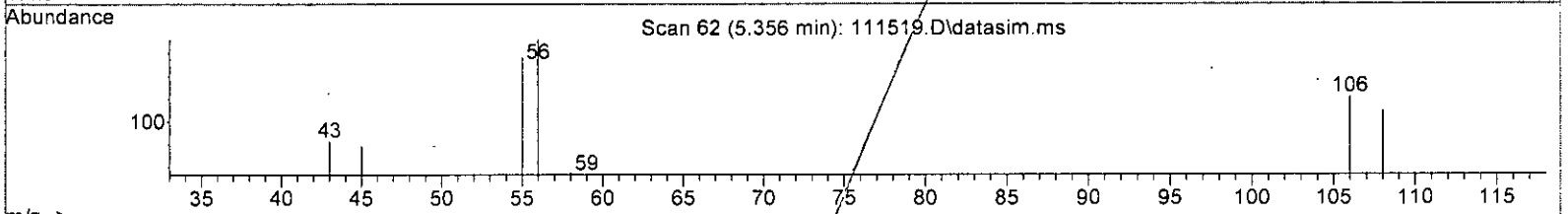
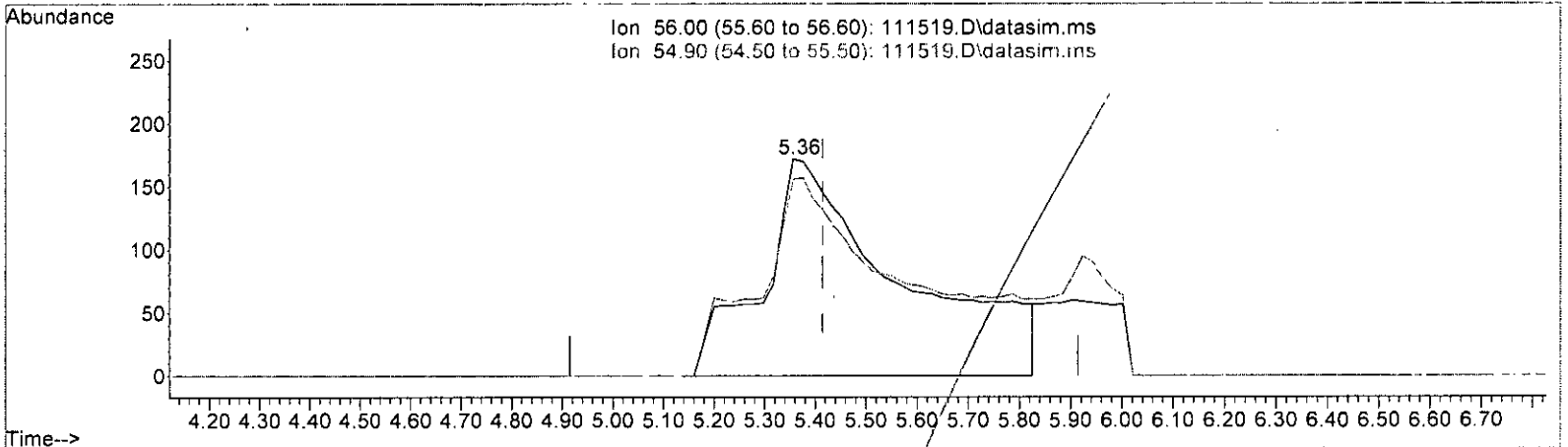
(11) Vinyl bromide (TMP)		
5.278min (-0.039) 0.100 ppbv m		
response	999	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	278.48#
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(13) Acrolein (TMP)  
 5.356min (-0.059) 0.754 ppbv  
 response 3423

Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	44.55#
0.00	0.00	0.00
0.00	0.00	0.00

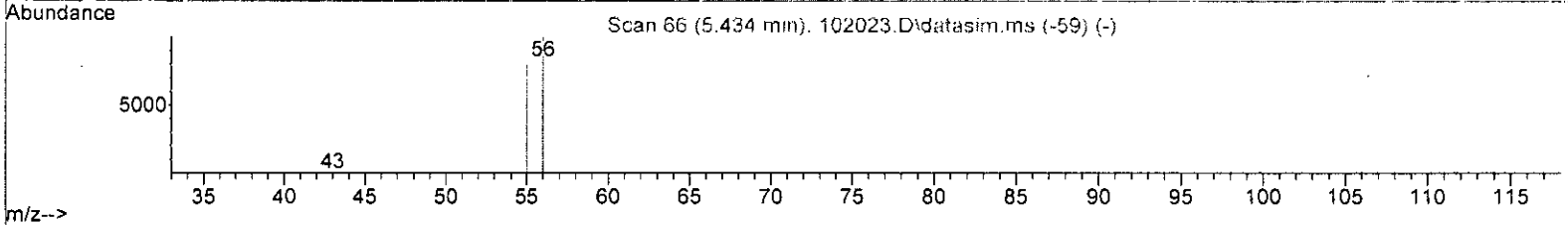
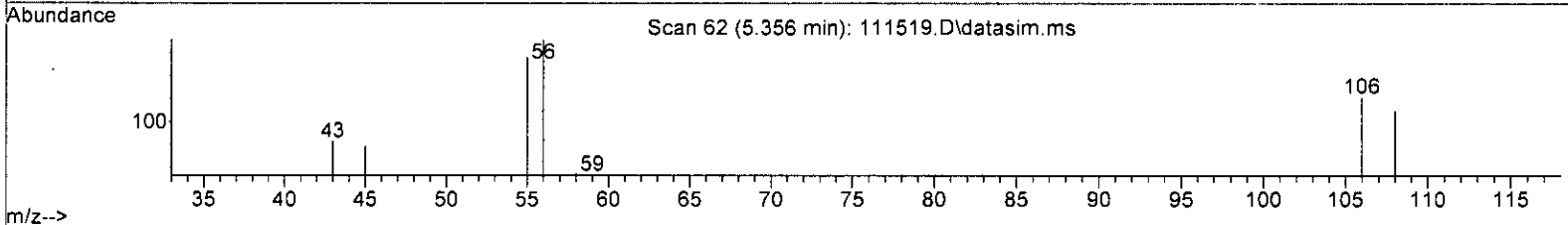
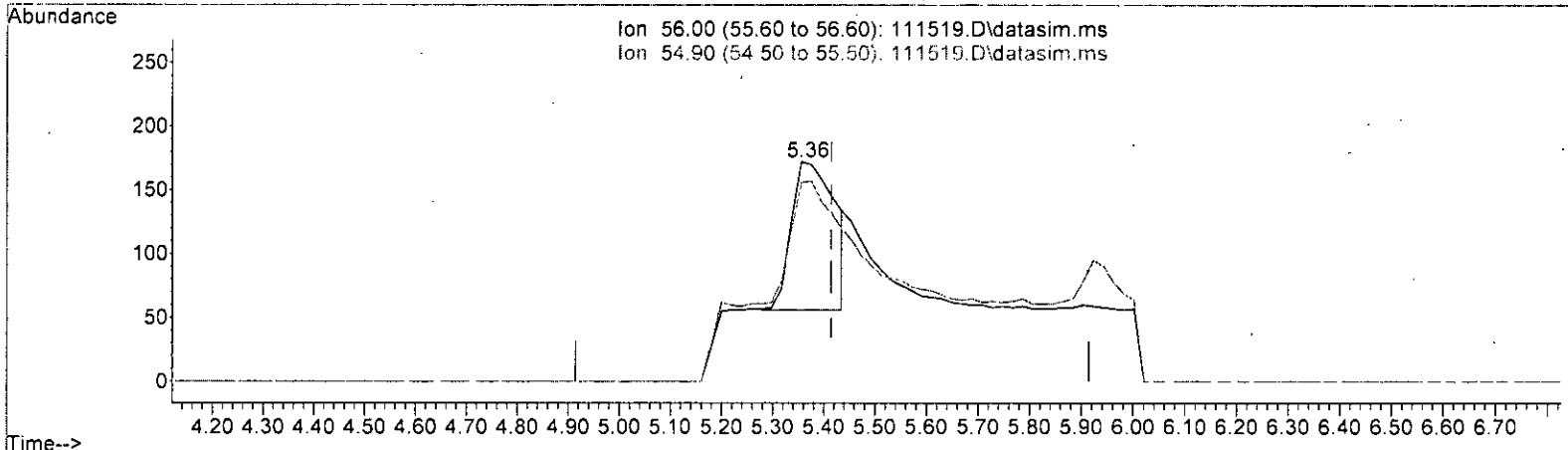
*Handwritten signature: 4/18/22*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

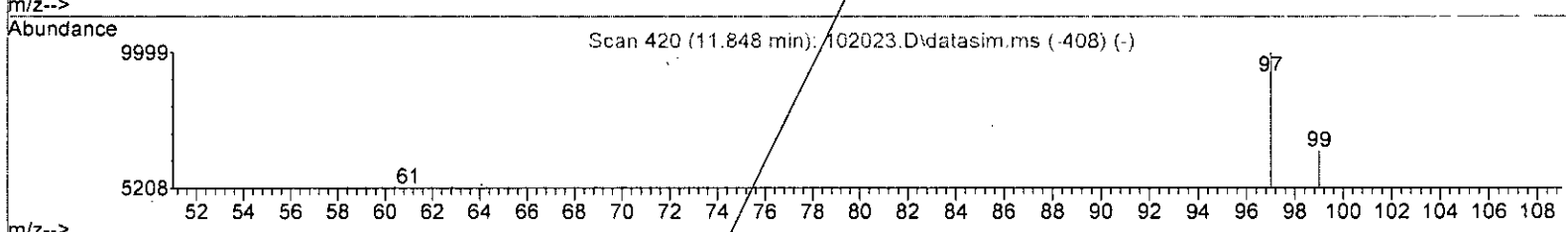
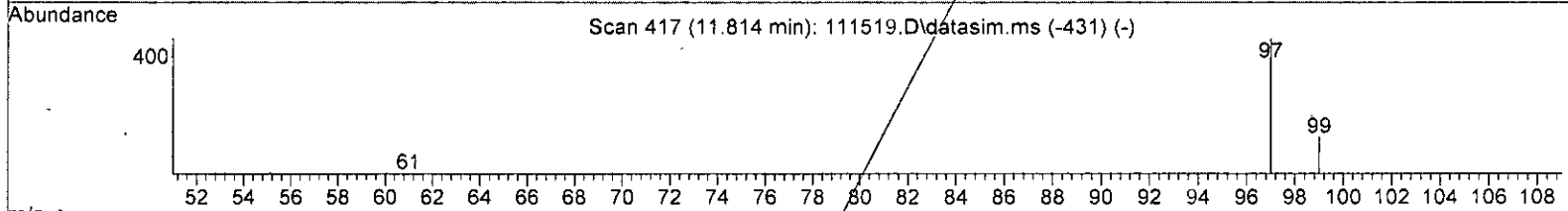
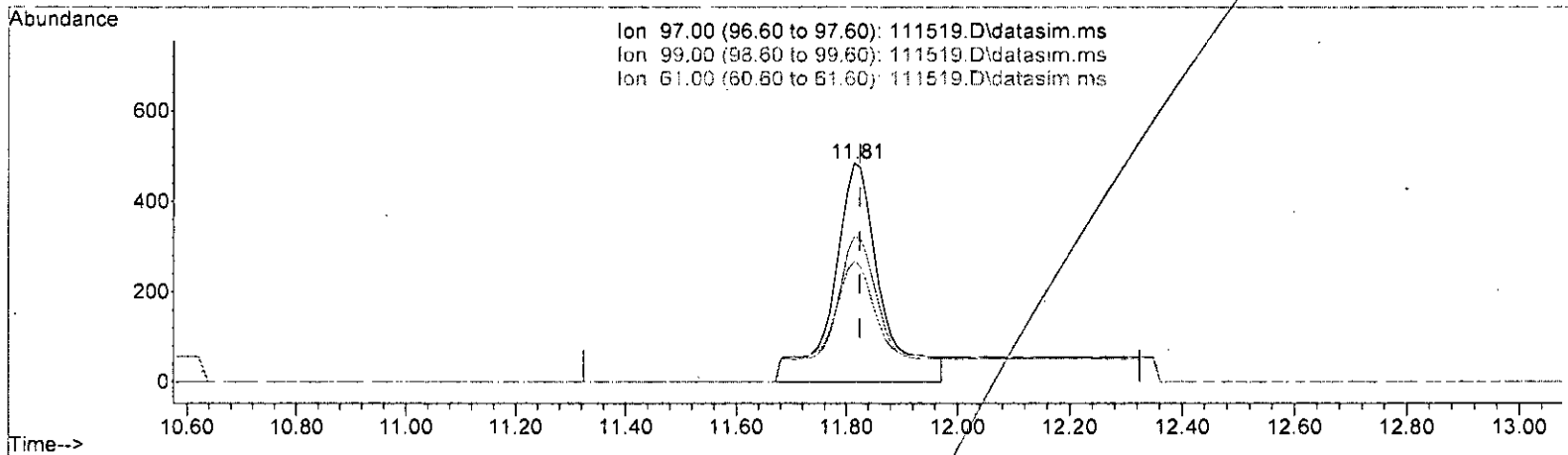
(13) Acrolein (TMP)		
5.356min (-0.059) 0.152 ppbv m		
response	691	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	220.69#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.814min (-0.011) 0.137 ppbv

response 2857

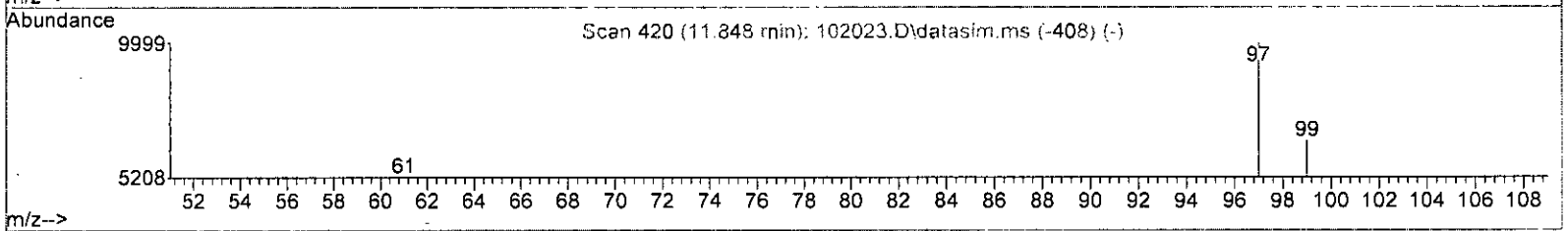
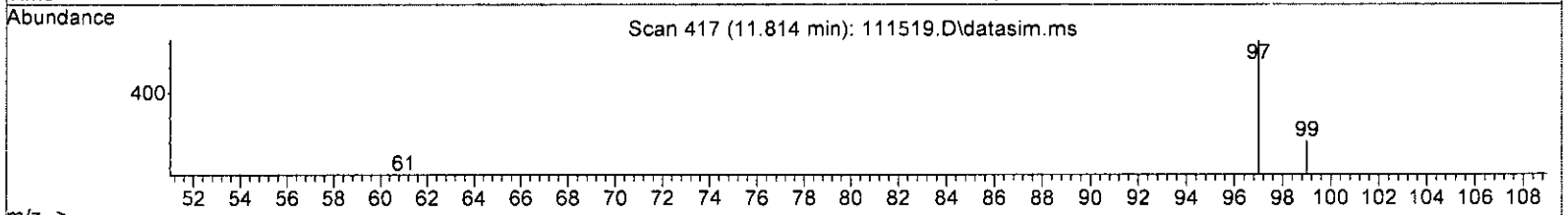
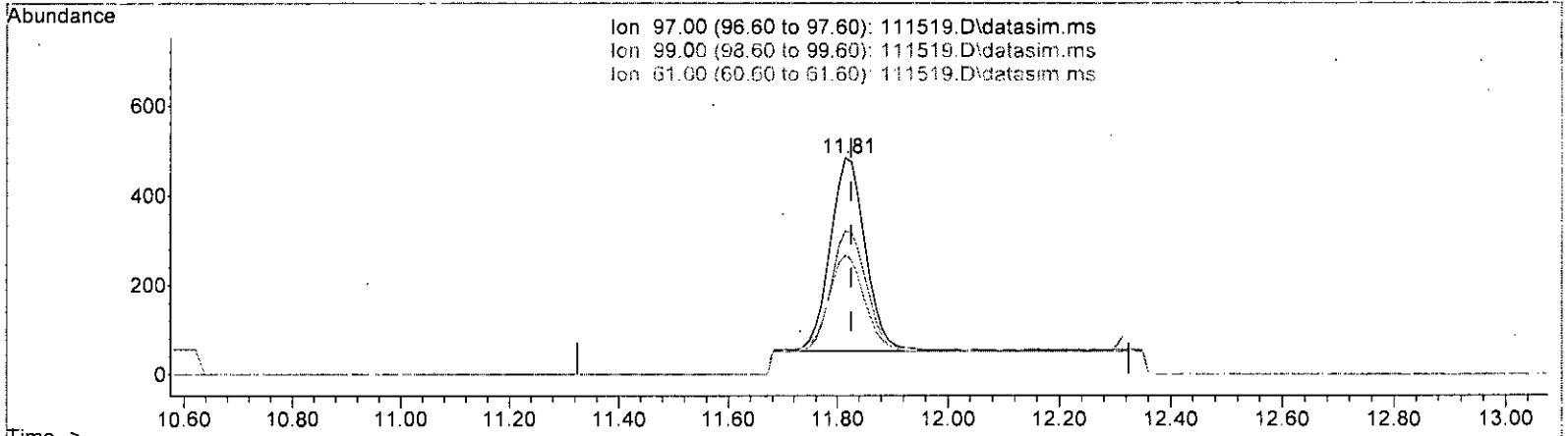
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	66.32
61.00	49.30	55.37
0.00	0.00	0.00

*bat*  
11/18/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111519.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.814min (-0.011) 0.093 ppbv m

response 1935

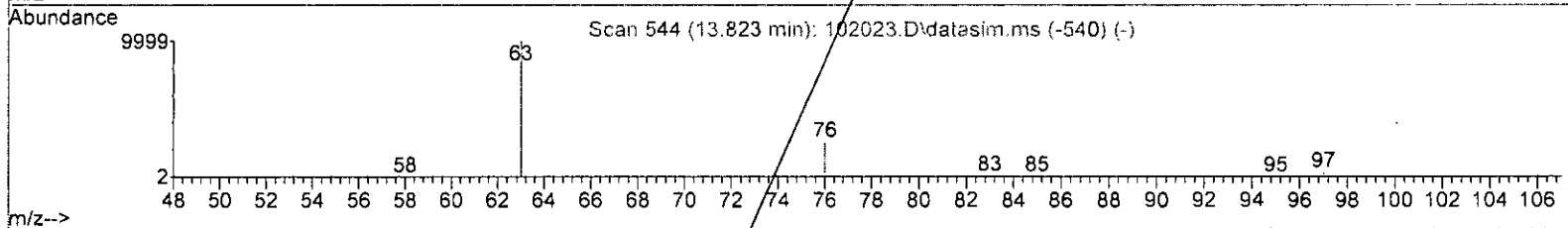
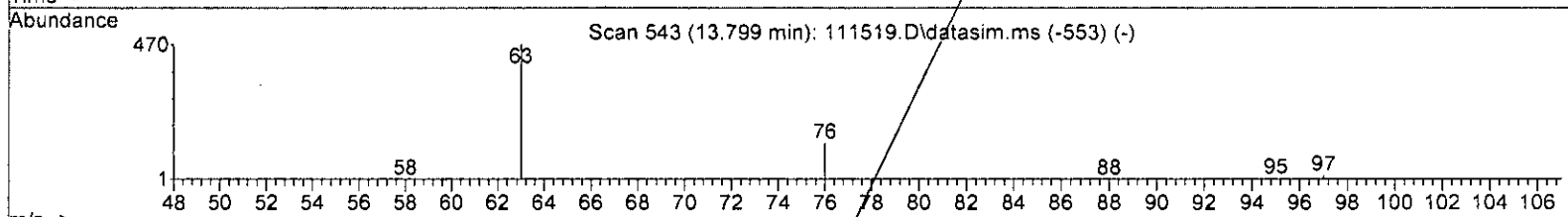
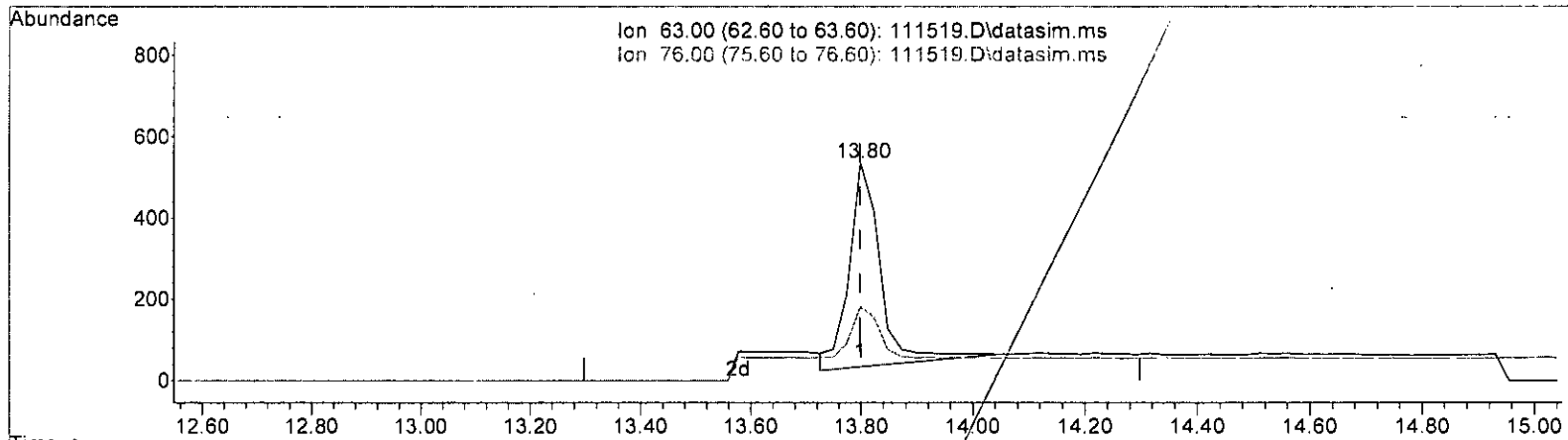
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	66.32
61.00	49.30	55.37
0.00	0.00	0.00

*h / 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



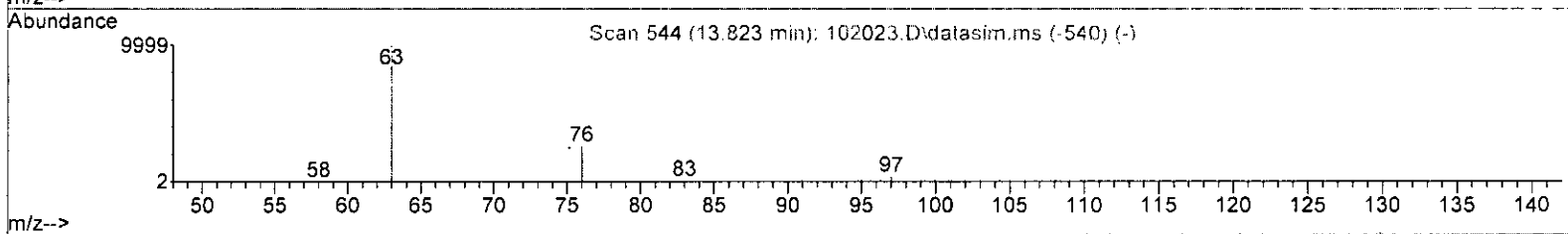
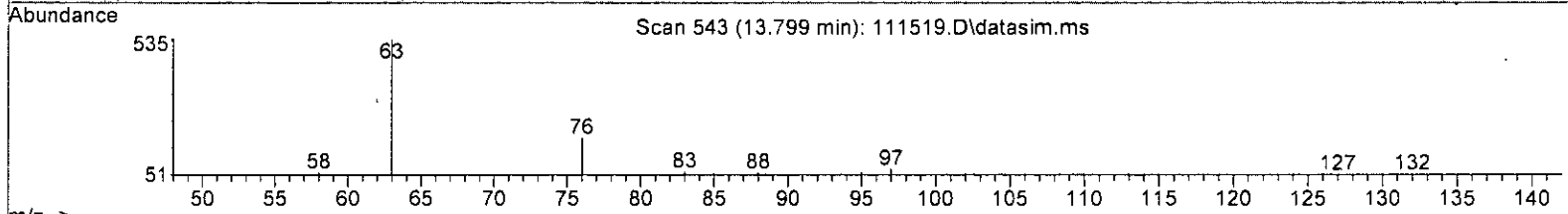
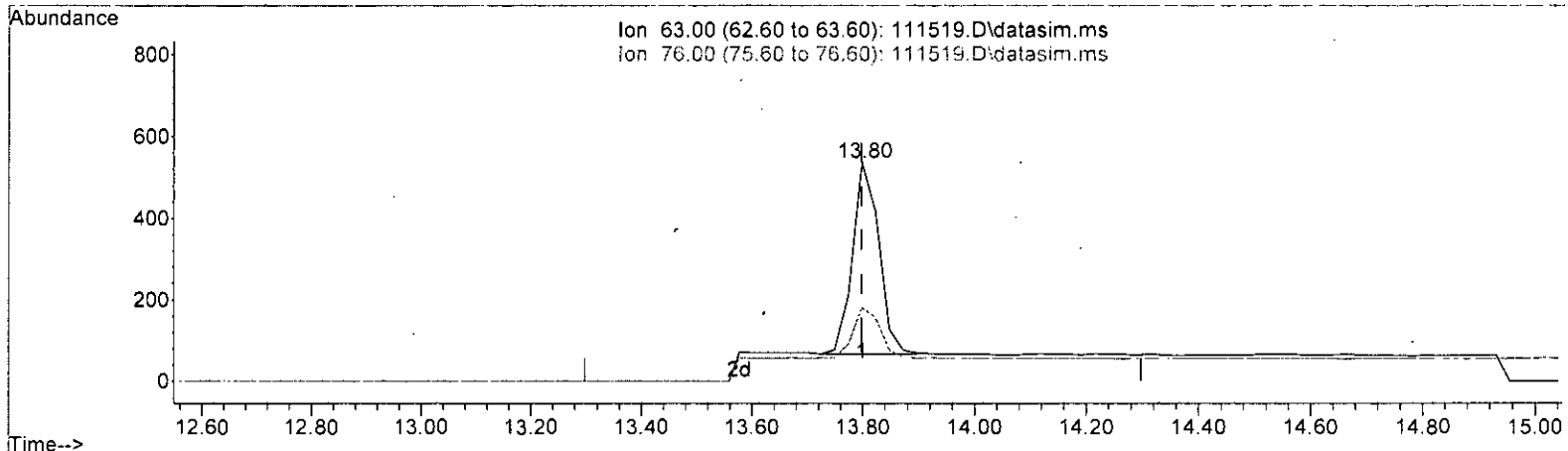
TIC: 111519.D\data.ms

(40)	1,2-Dichloropropane (TMP)	
13.799min (+ 0.001)	0.126 ppbv	
response	1955	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	26.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.799min (+ 0.001) 0.099 ppbv m

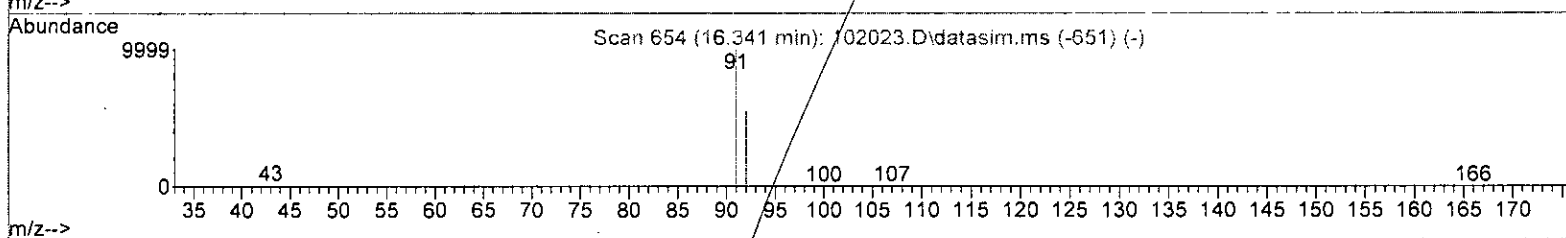
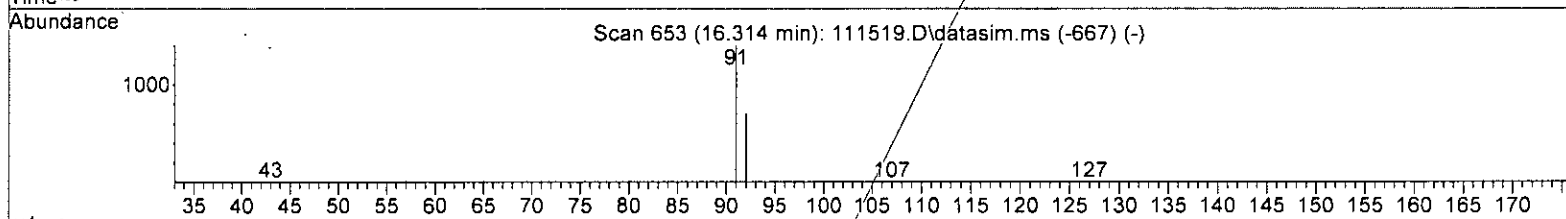
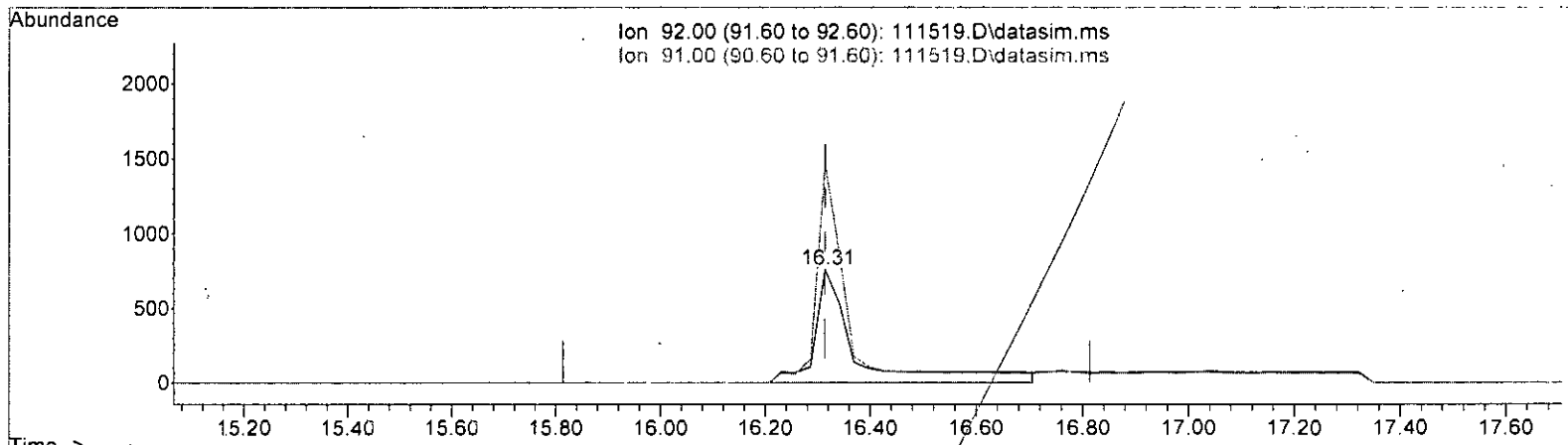
response	1540	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	33.77
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

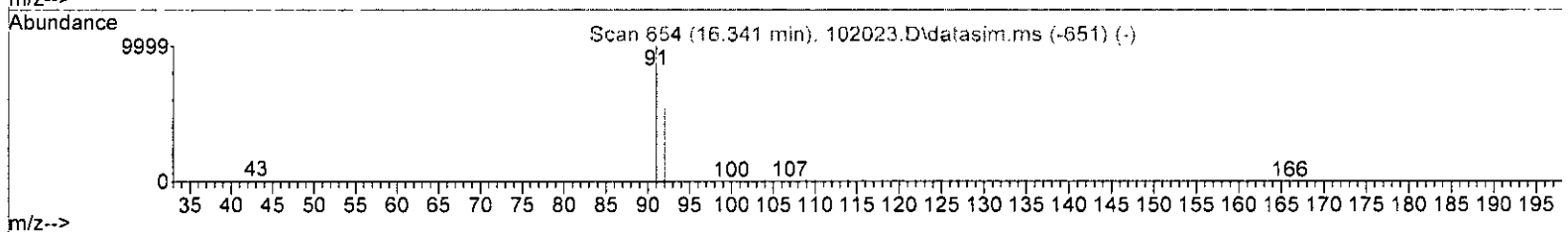
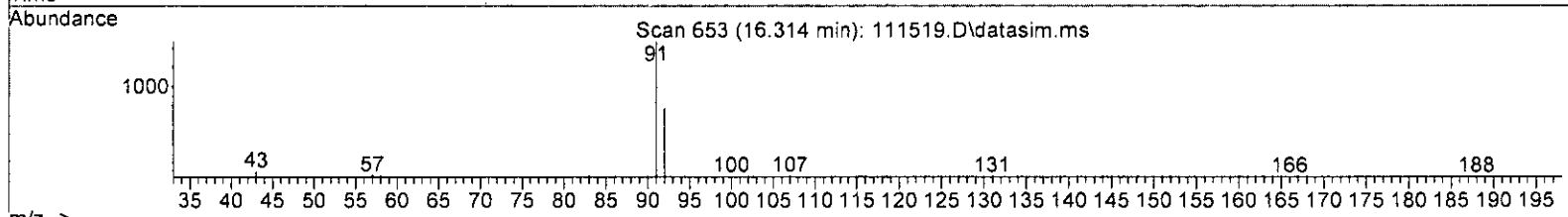
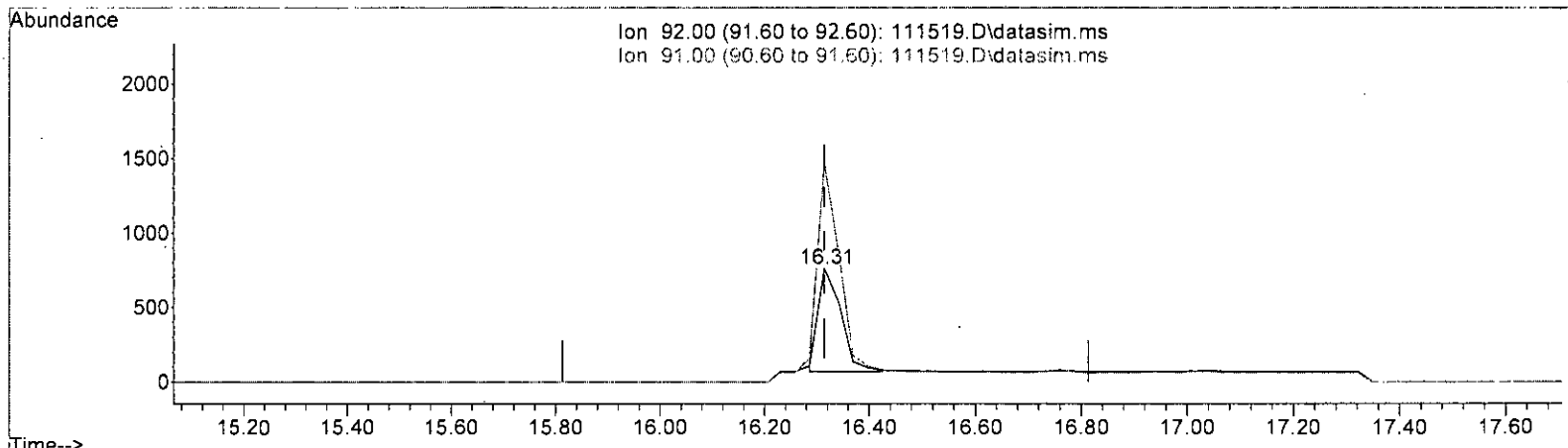
(50) Toluene (TMP)		
16.314min	(-0.000)	0.206 ppbv
response	4170	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	193.14
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: W. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

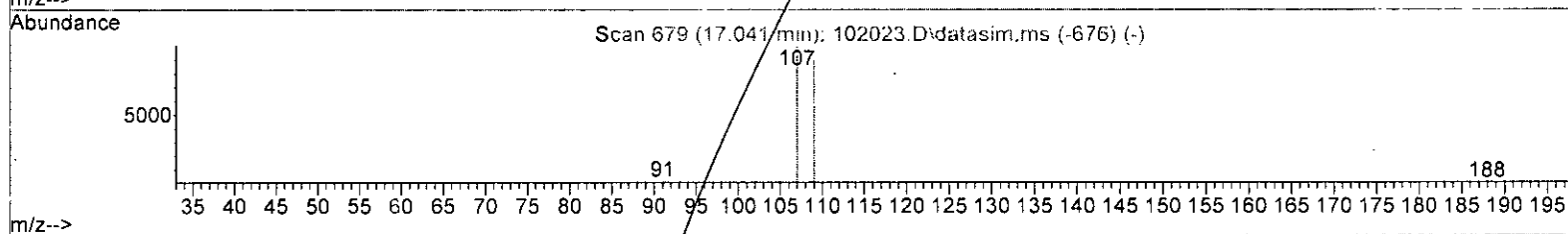
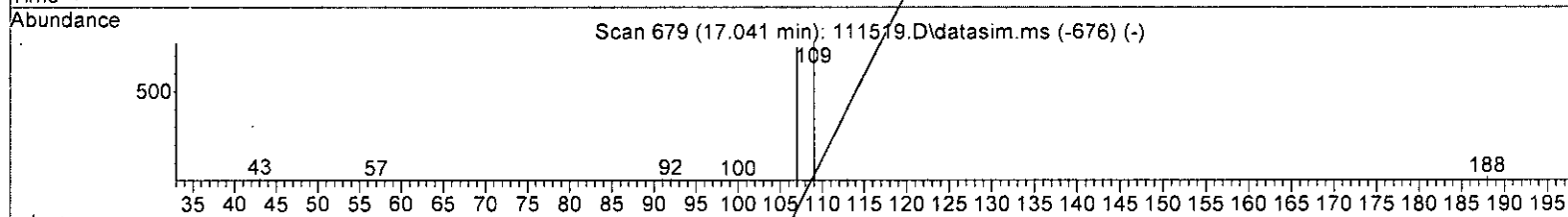
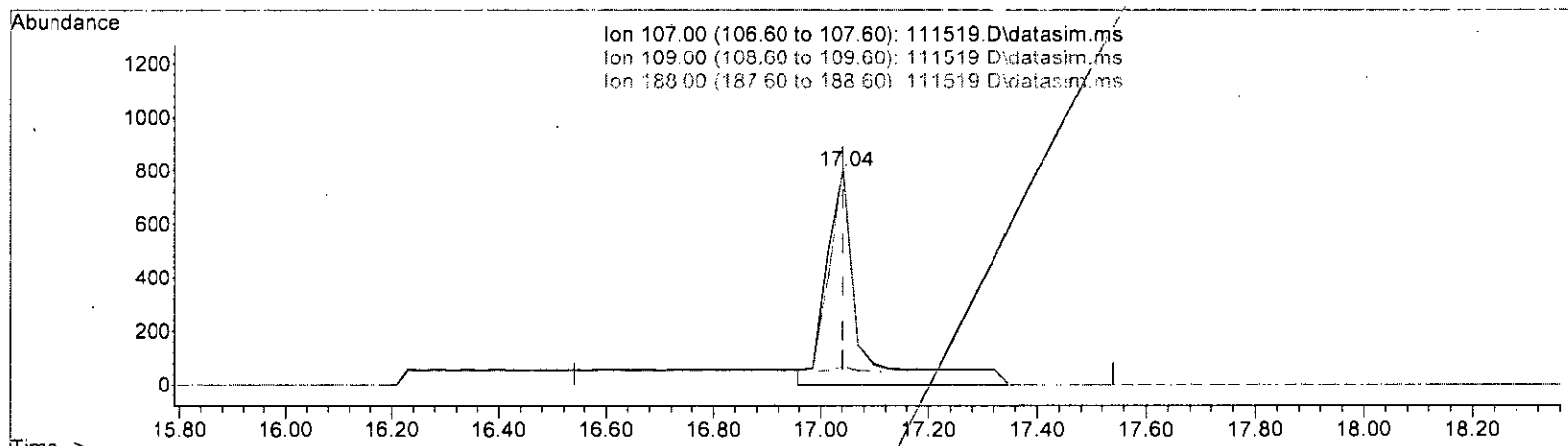
(50) Toluene (TMP)			
16.314min (-0.000) 0.103 ppbv m			
response	2091		
Ion	Exp%	Act%	
92.00	100.00	100.00	
91.00	204.60	193.14	
0.00	0.00	0.00	
0.00	0.00	0.00	

5  
11/18/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)			
17.041min (+ 0.000)		0.144 ppbv	
response	3318		
Ion	Exp%	Act%	
107.00	100.00	100.00	
109.00	104.60	102.25	
188.00	2.70	8.36	
0.00	0.00	0.00	

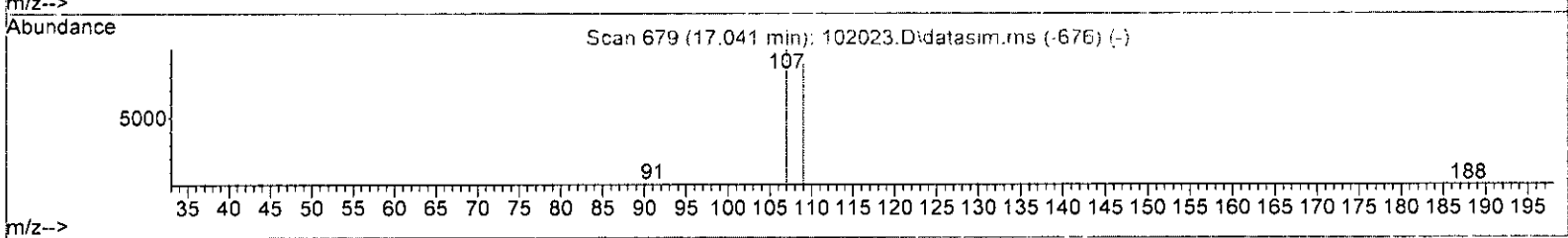
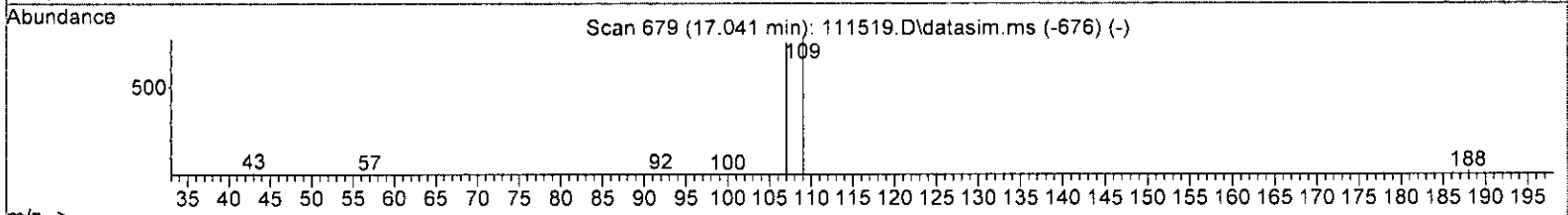
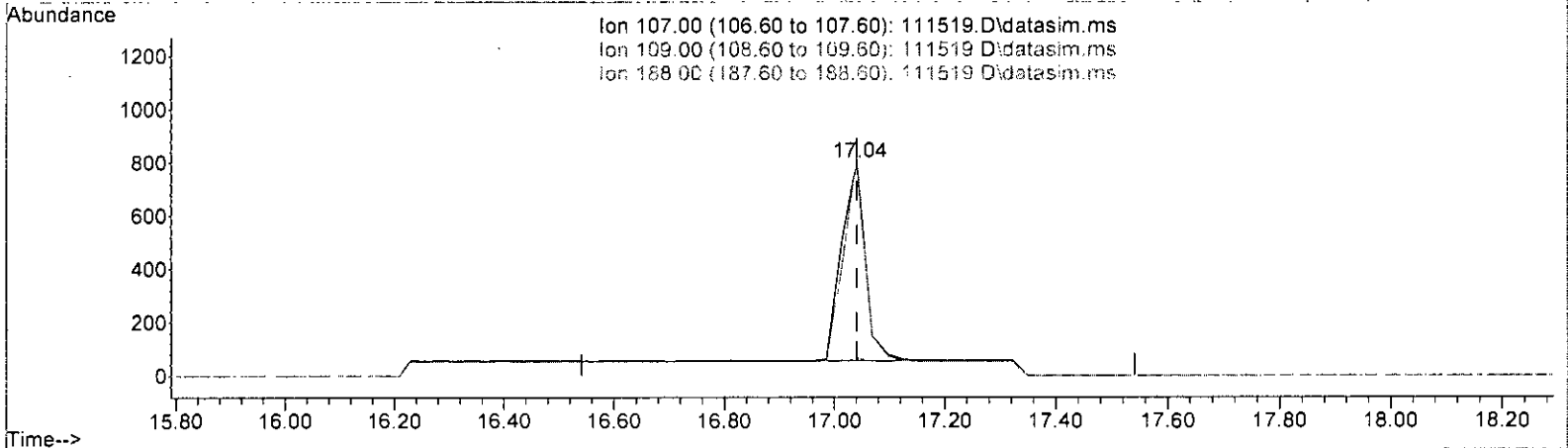
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.041min (+ 0.000) 0.093 ppbv m

response 2202

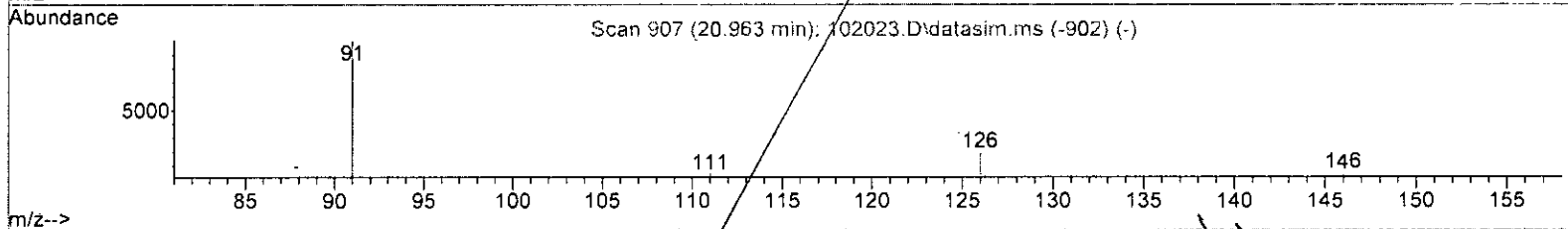
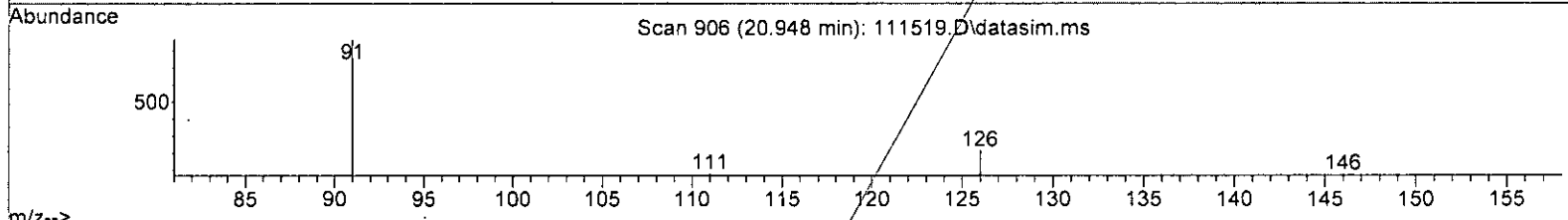
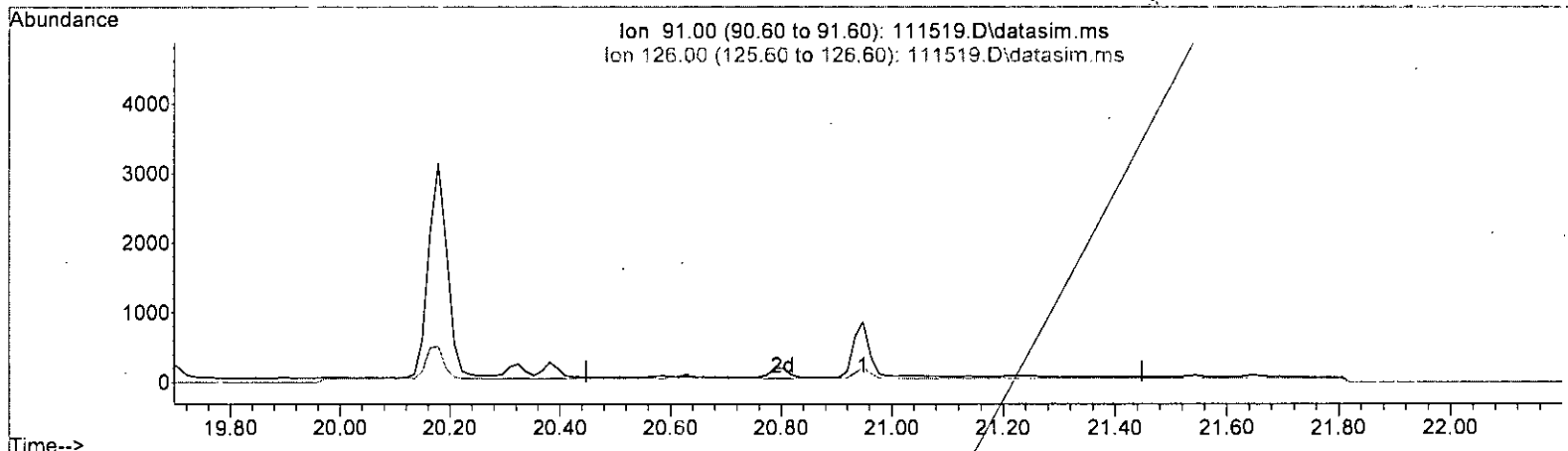
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	102.25
188.00	2.70	8.36
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(70) Benzyl chloride (TMP)

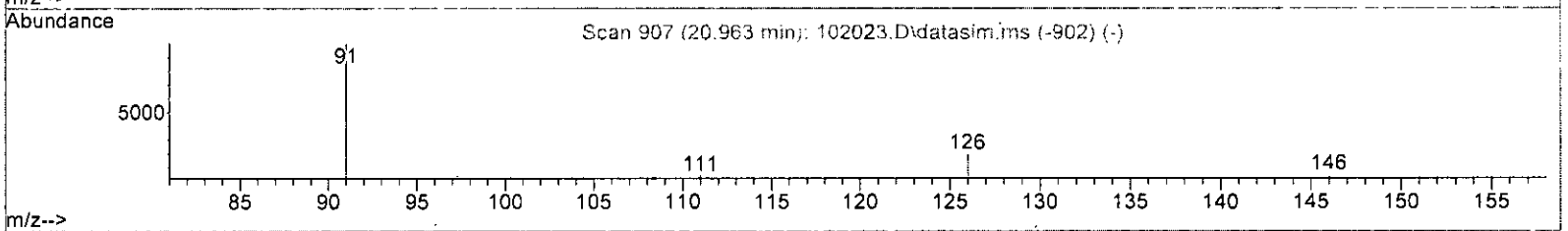
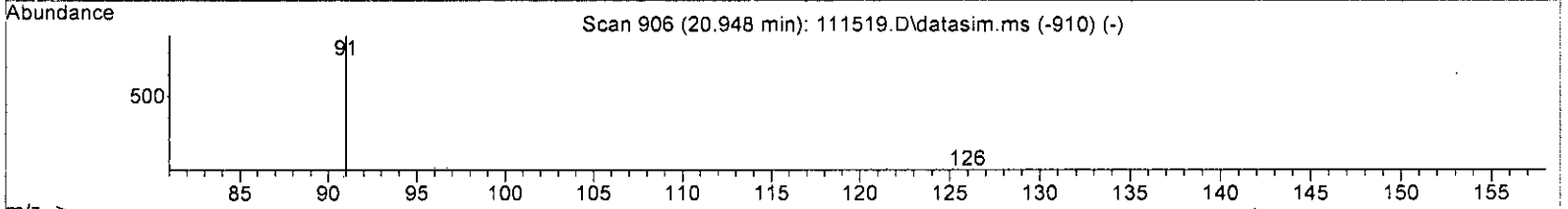
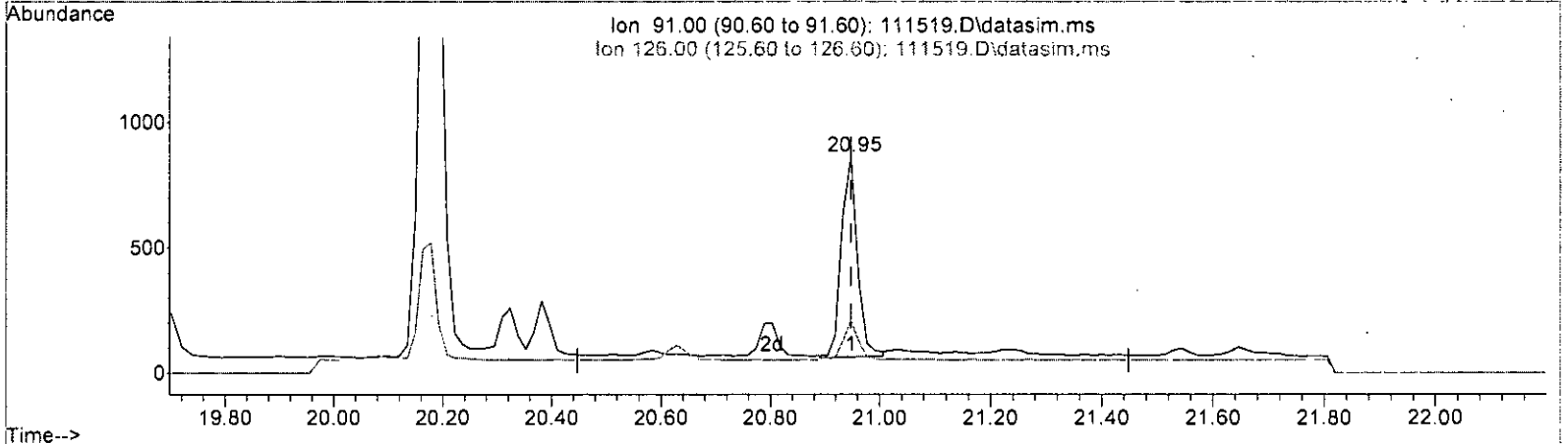
20.948min	0.000 ppbv d	
response	0	
Ion	Exp%	Act%
91.00	100.00	0.00
126.00	20.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten notes:* 11/18/22, 126

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

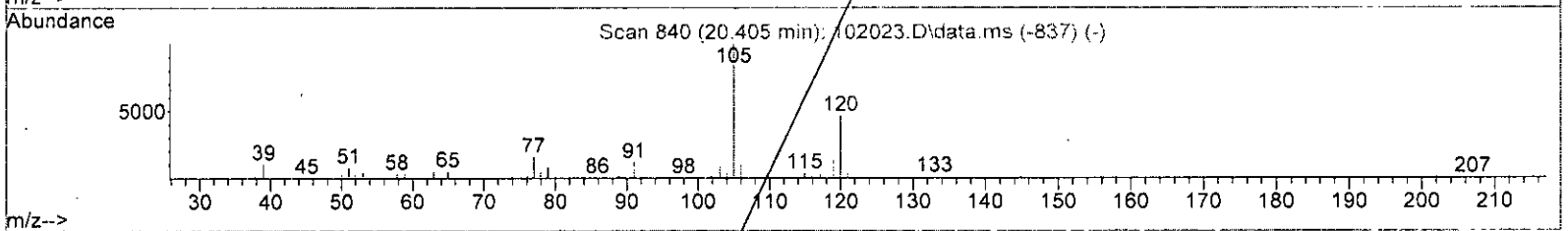
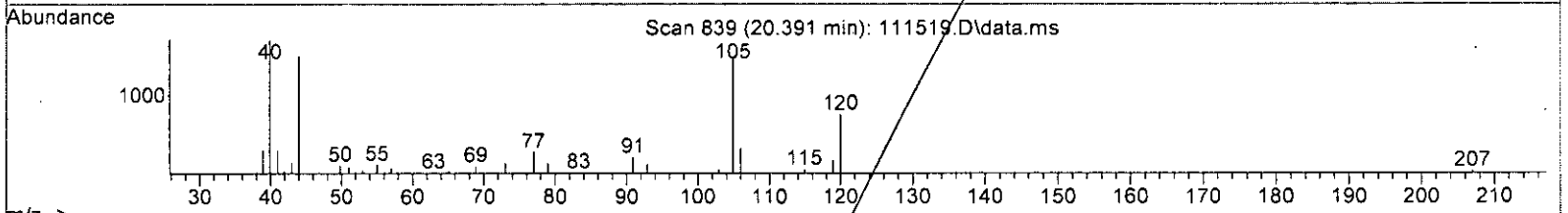
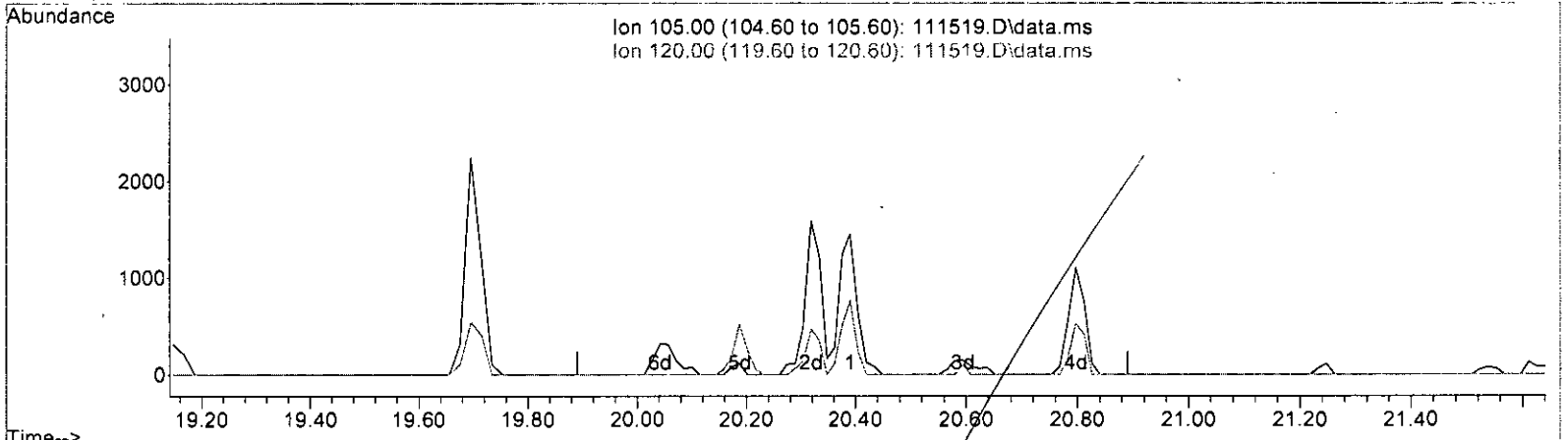
(70) Benzyl chloride (TMP)			
20.948min	(+ 0.000)	0.058 ppbv m	
response	1628		
Ion	Exp%	Act%	
91.00	100.00	100.00	
126.00	20.00	24.33	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(71) 1,3,5-Trimethylbenzene (TMP)

20.391min      0.000 ppbv d

response      0

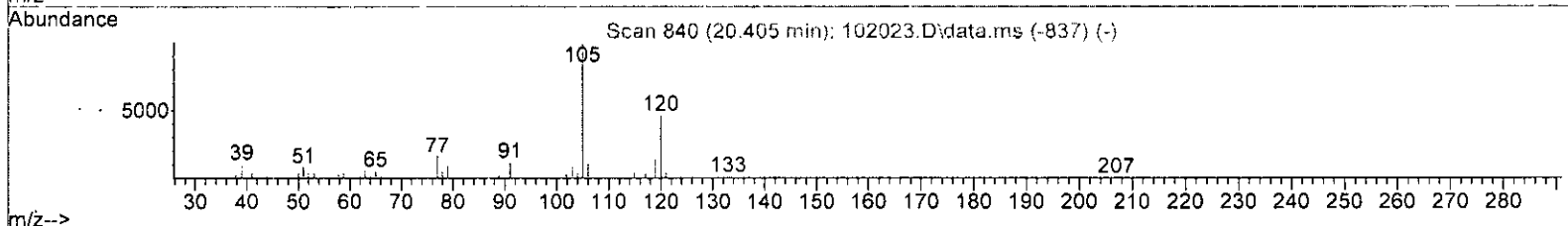
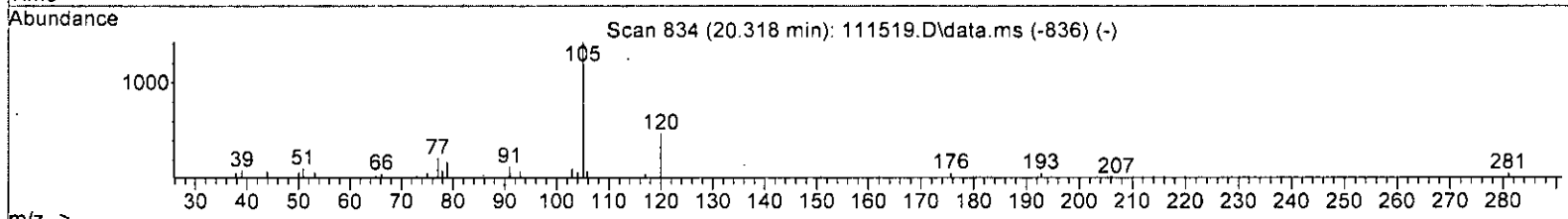
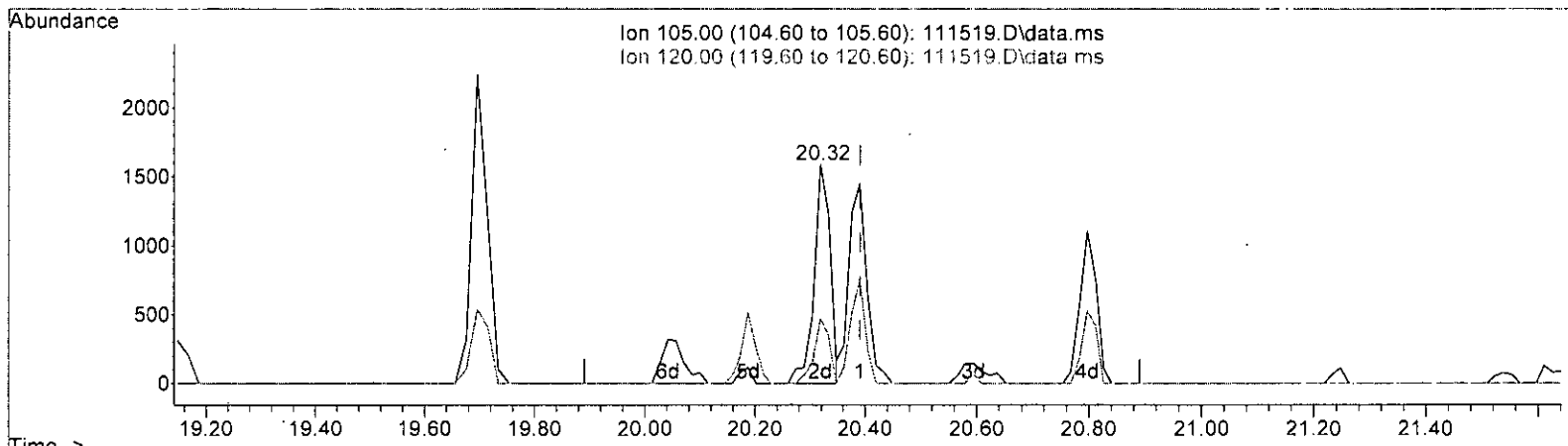
Ion	Exp%	Act%
105.00	100.00	0.00
120.00	43.40	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111519.D\data.ms

(71) 1,3,5-Trimethylbenzene (TMP)

20.318min (-0.073) 0.088 ppbv m

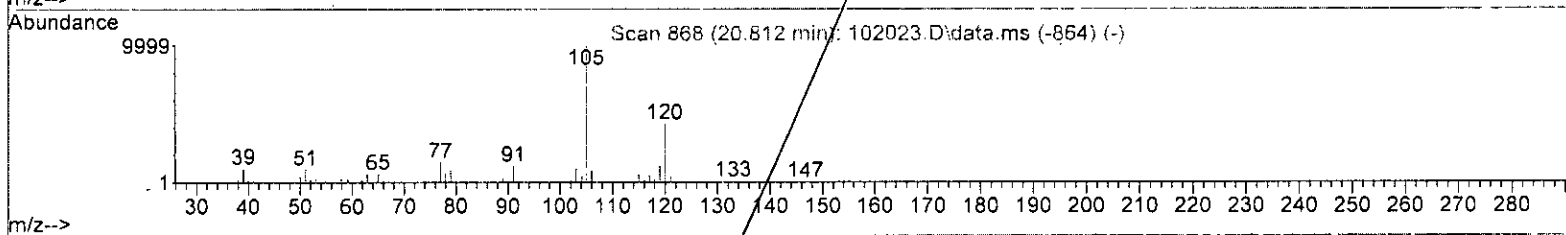
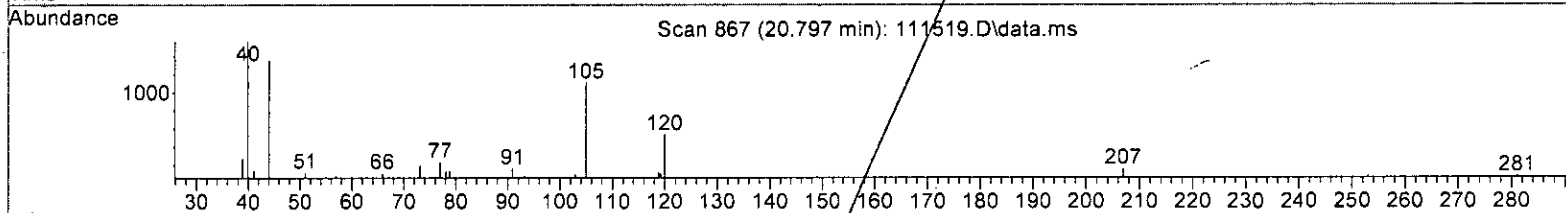
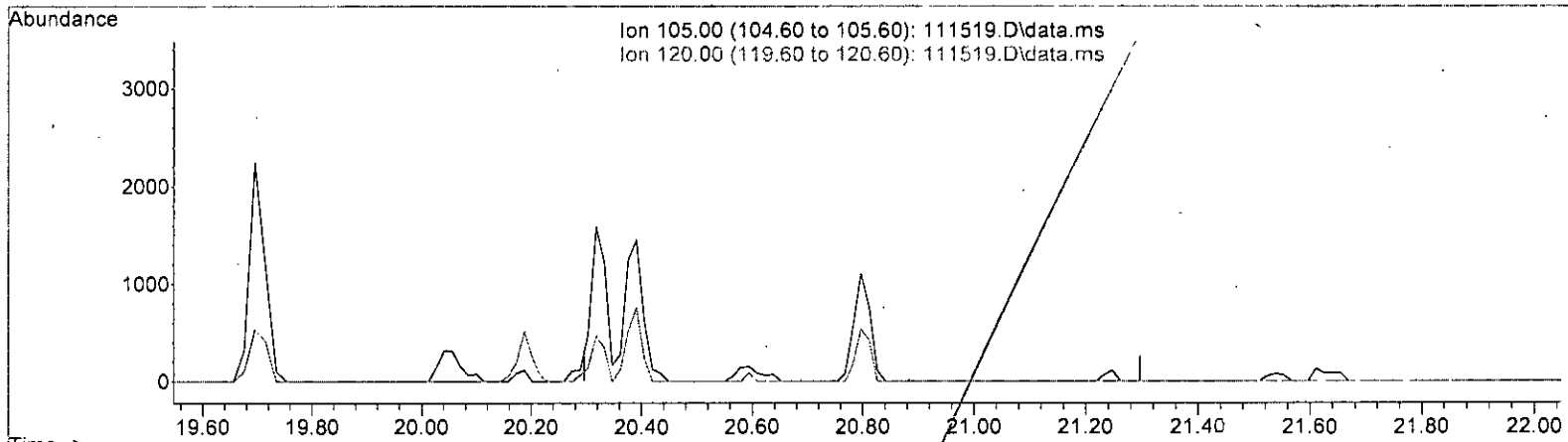
response	3200	
Ion	Exp%	Act%
105.00	100.00	100.00
120.00	43.40	29.57
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

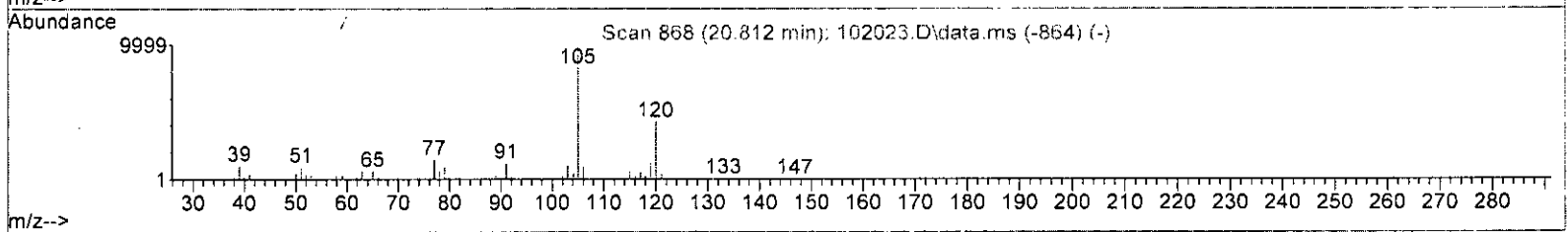
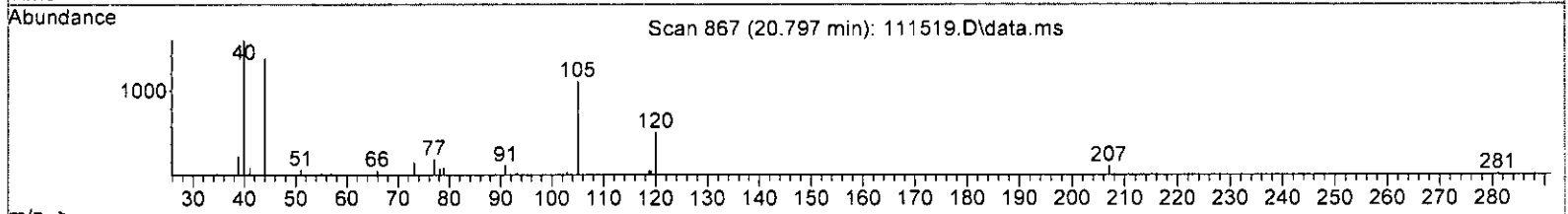
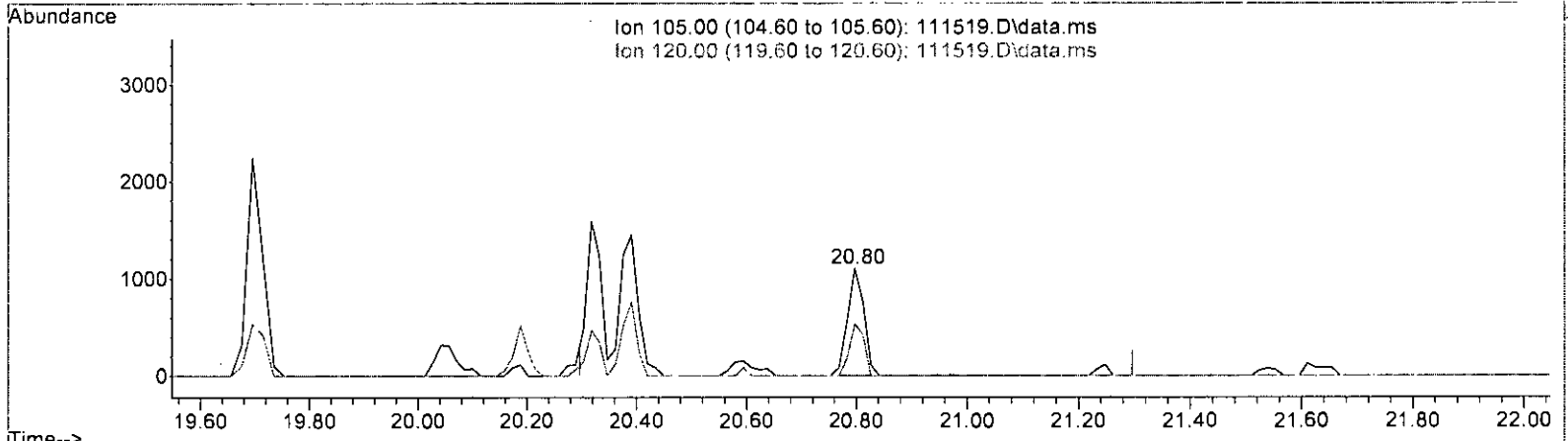
(72) 1,2,4-Trimethylbenzene (TMP)		
20.797min	0.000 ppbv d	
response	0	
Ion	Exp%	Act%
105.00	100.00	0.00
120.00	41.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

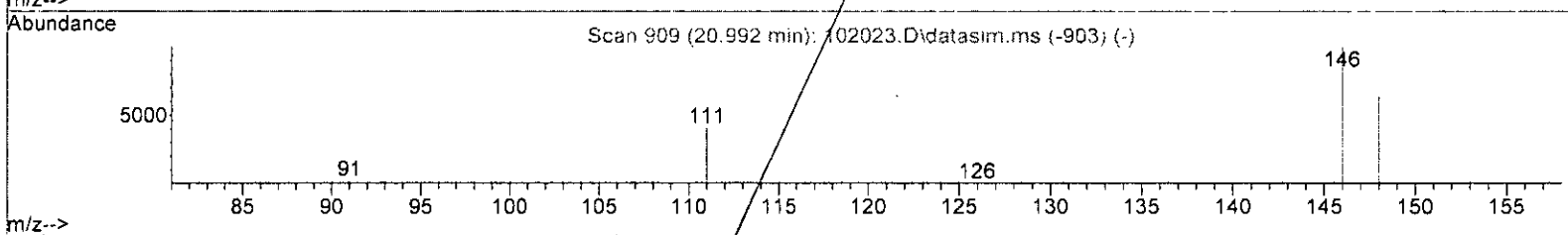
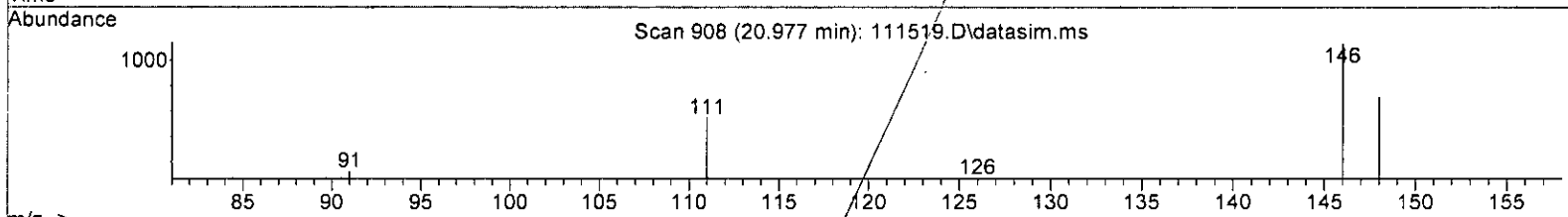
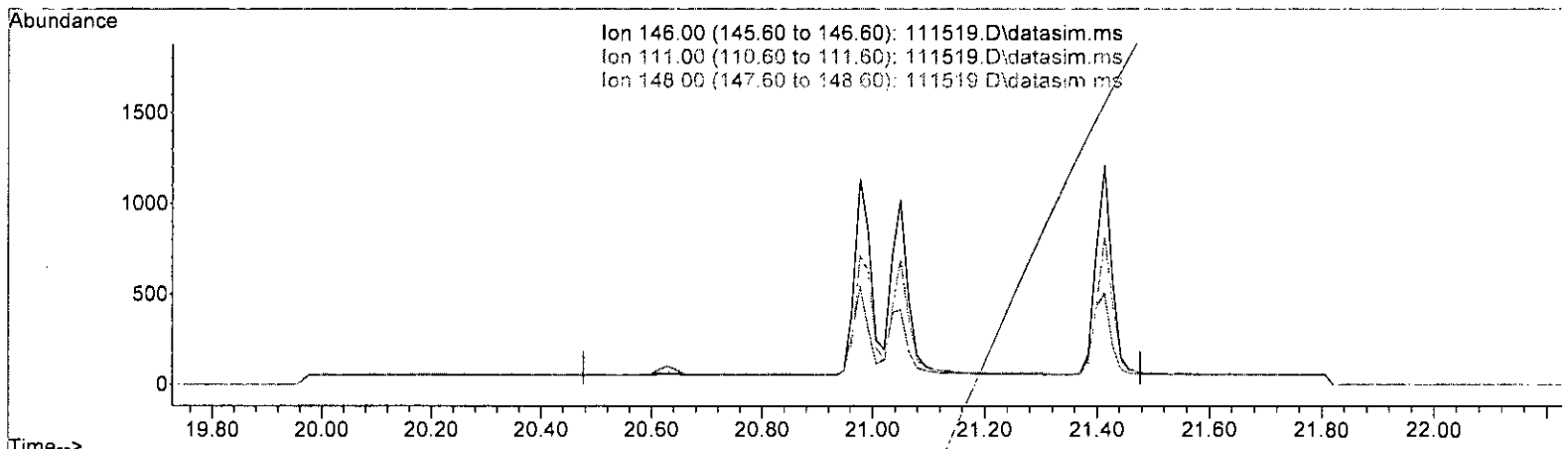
(72)	1,2,4-Trimethylbenzene (TMP)	
20.797min	(+ 0.000)	0.132 ppbv m
response	2264	
Ion	Exp%	Act%
105.00	100.00	100.00
120.00	41.00	48.05
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

Ion	Exp%	Act%
146.00	100.00	0.00
111.00	43.60	0.00
148.00	62.60	0.00
0.00	0.00	0.00

(73) 1,3-Dichlorobenzene (TMP)  
 20.977min 0.000 ppbv d  
 response 0

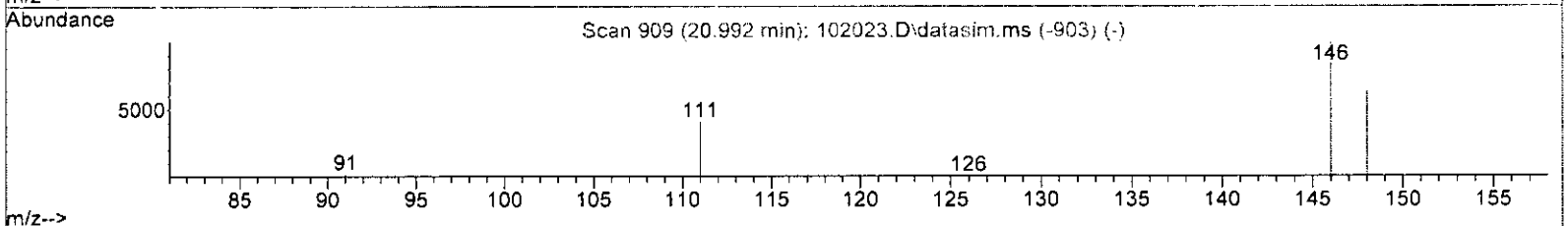
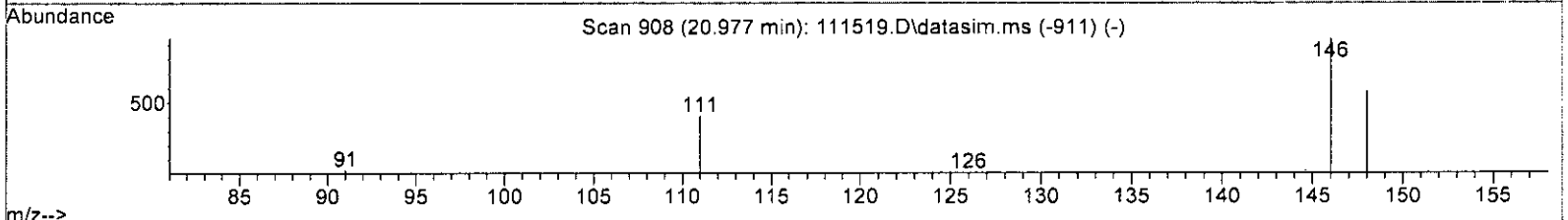
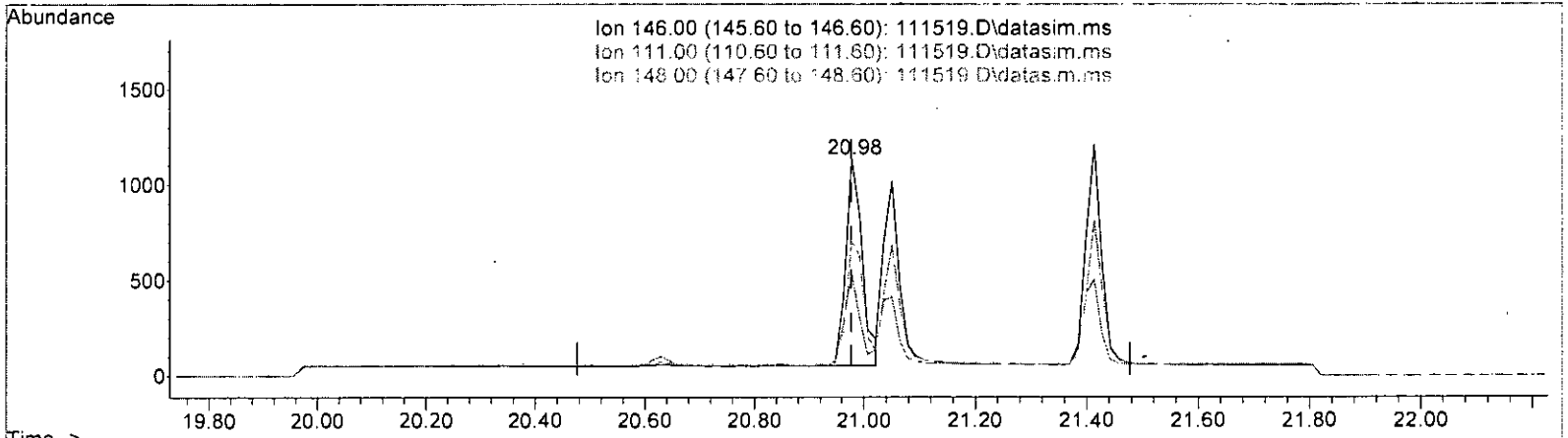
*Handwritten signature*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(73) 1,3-Dichlorobenzene (TMP)

20.977min (+ 0.000) 0.088 ppbv m

response 2242

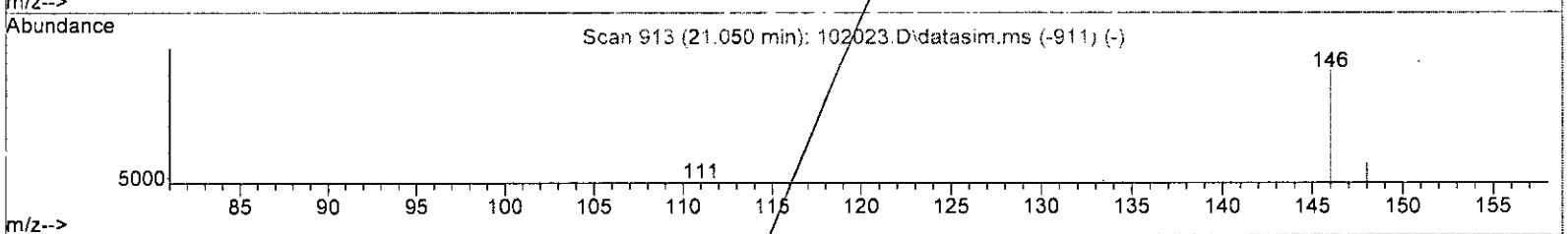
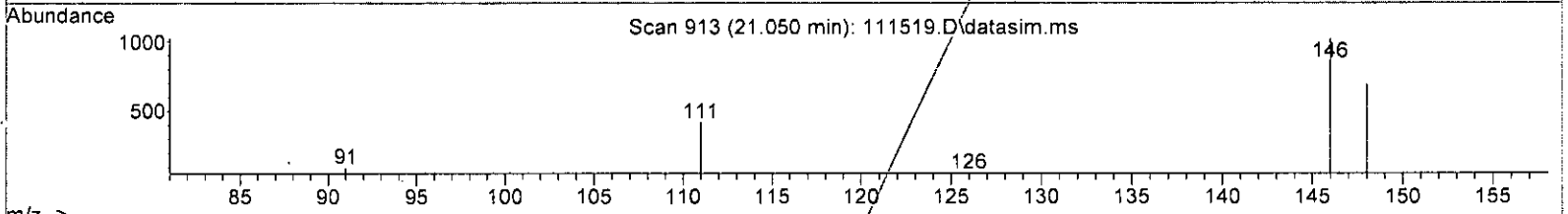
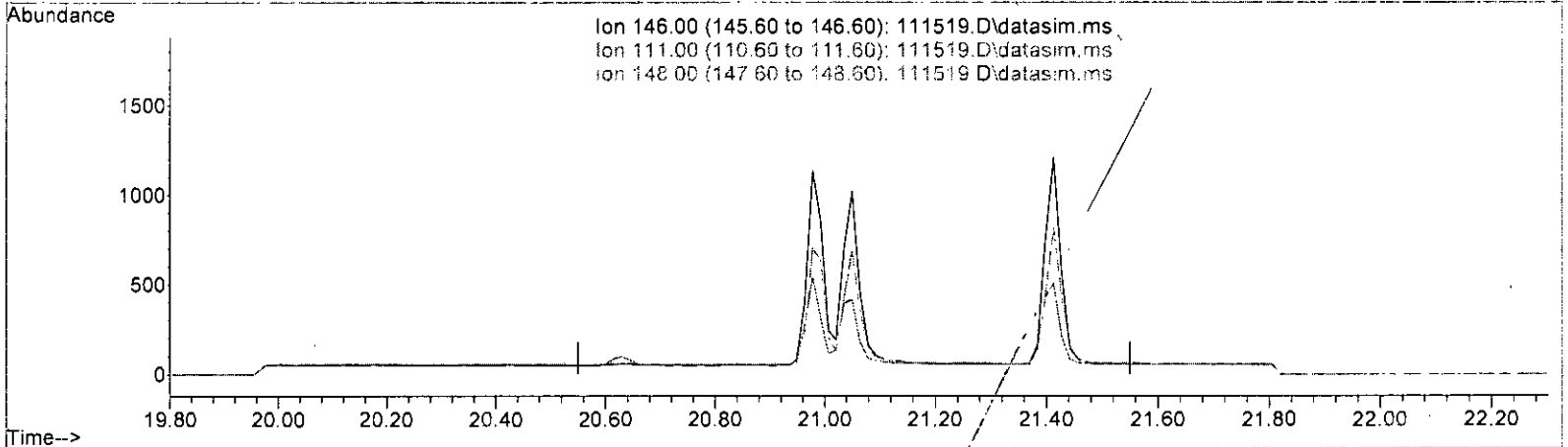
Ion	Exp%	Act%
146.00	100.00	100.00
111.00	43.60	47.67
148.00	62.60	62.38
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

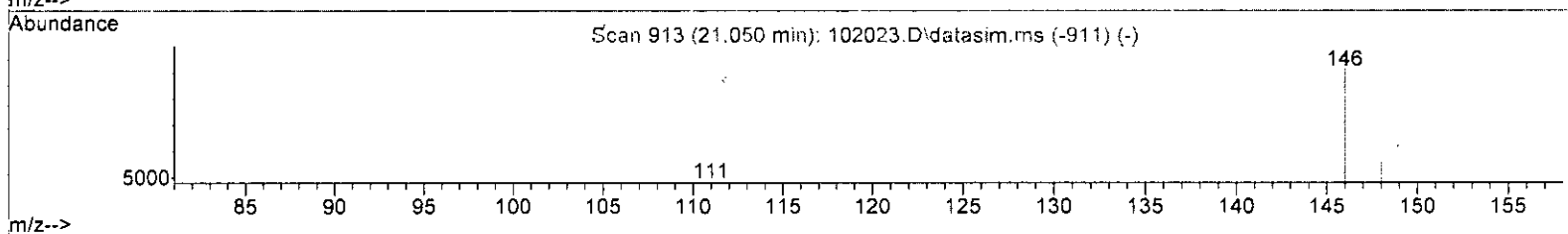
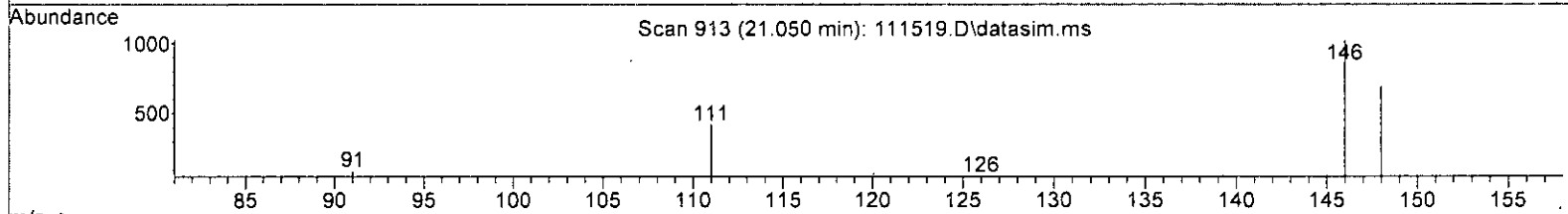
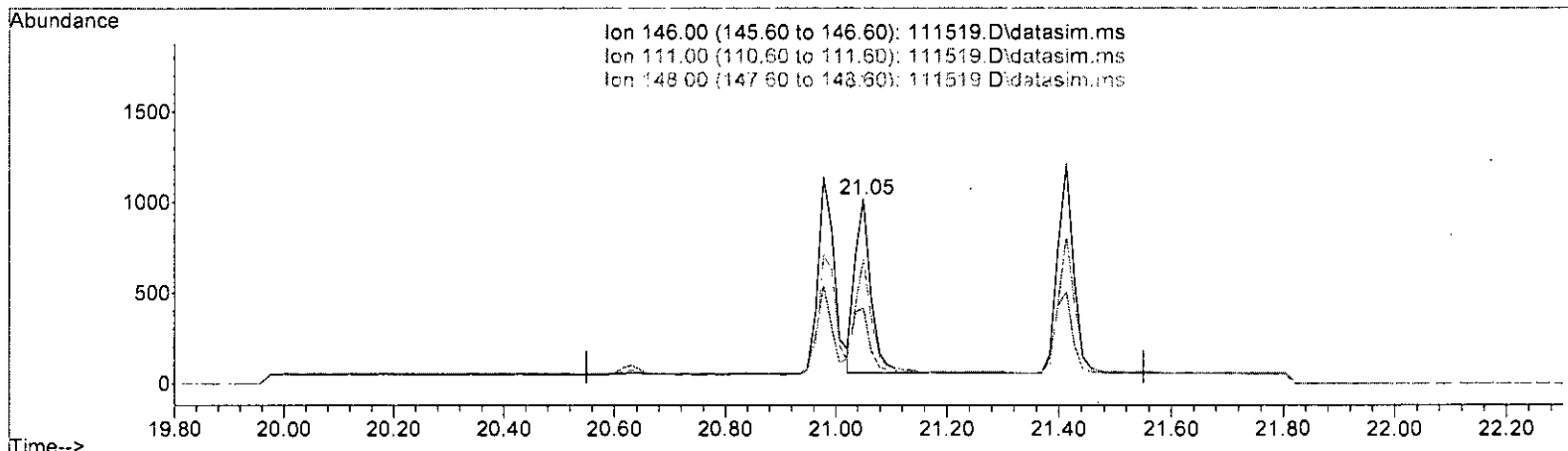
(74) 1,4-Dichlorobenzene (TMP)		
21.050min	0.000 ppbv d	
response	0	
Ion	Exp%	Act%
146.00	100.00	0.00
111.00	35.50	0.00
148.00	68.80	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(74) 1,4-Dichlorobenzene (TMP)

21.050min (+ 0.000) 0.082 ppbv m

response 1951

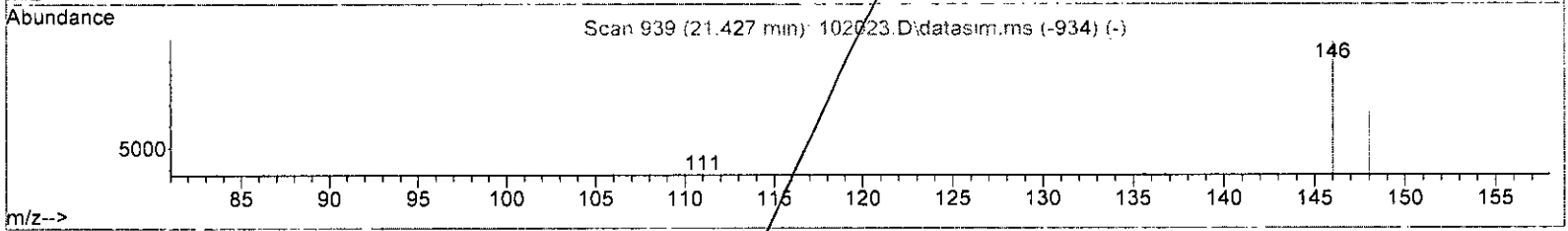
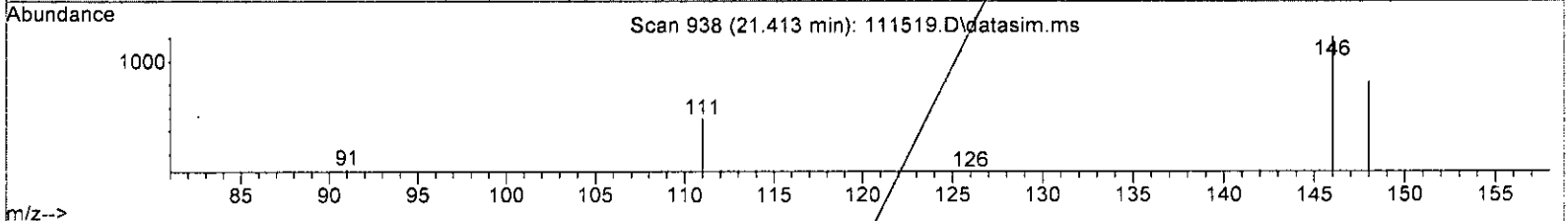
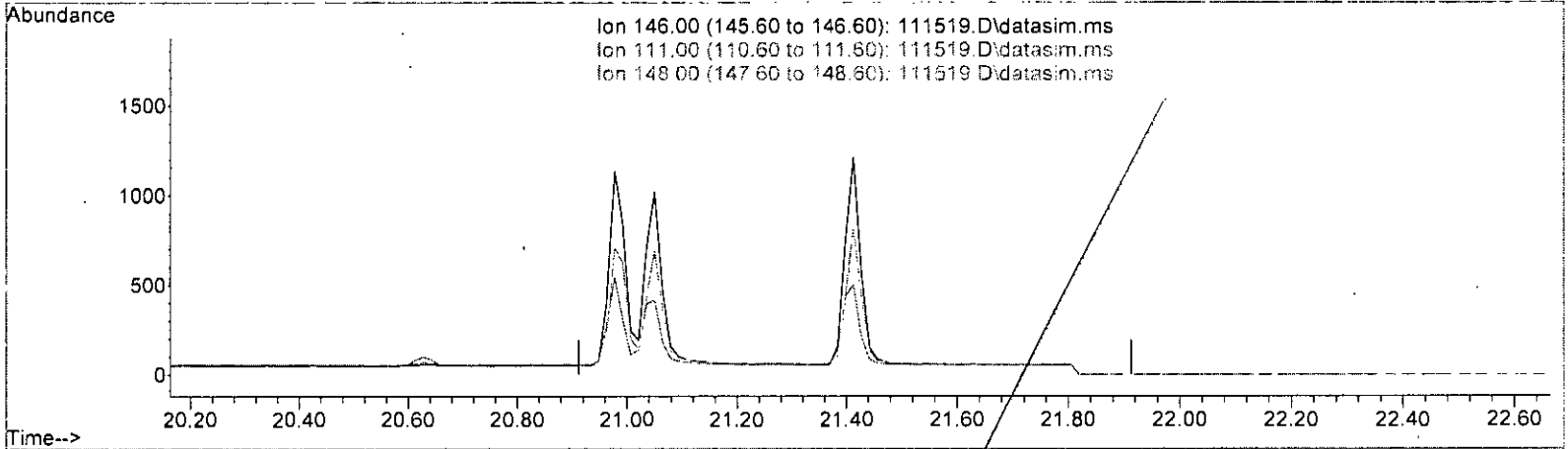
Ion	Exp%	Act%
146.00	100.00	100.00
111.00	35.50	40.81
148.00	68.80	67.45
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111519.D\data.ms

Ion	Exp%	Act%
146.00	100.00	0.00
111.00	42.90	0.00
148.00	63.20	0.00
0.00	0.00	0.00

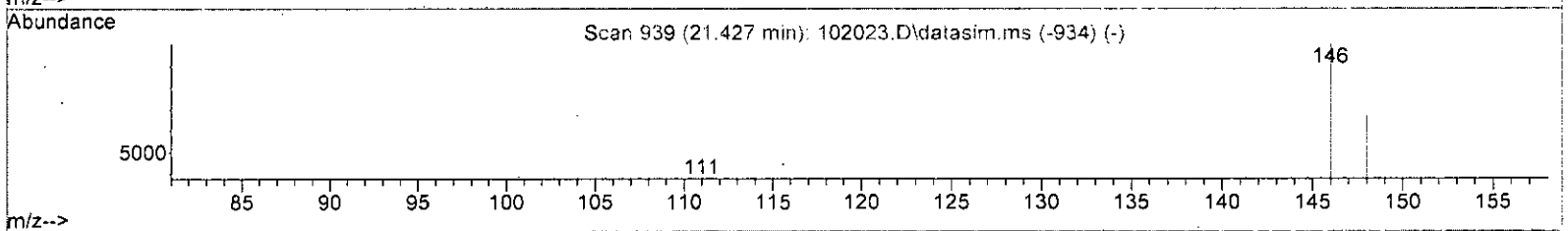
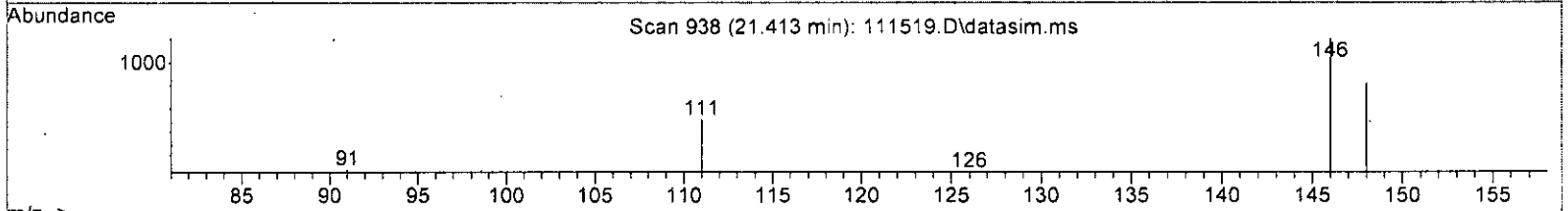
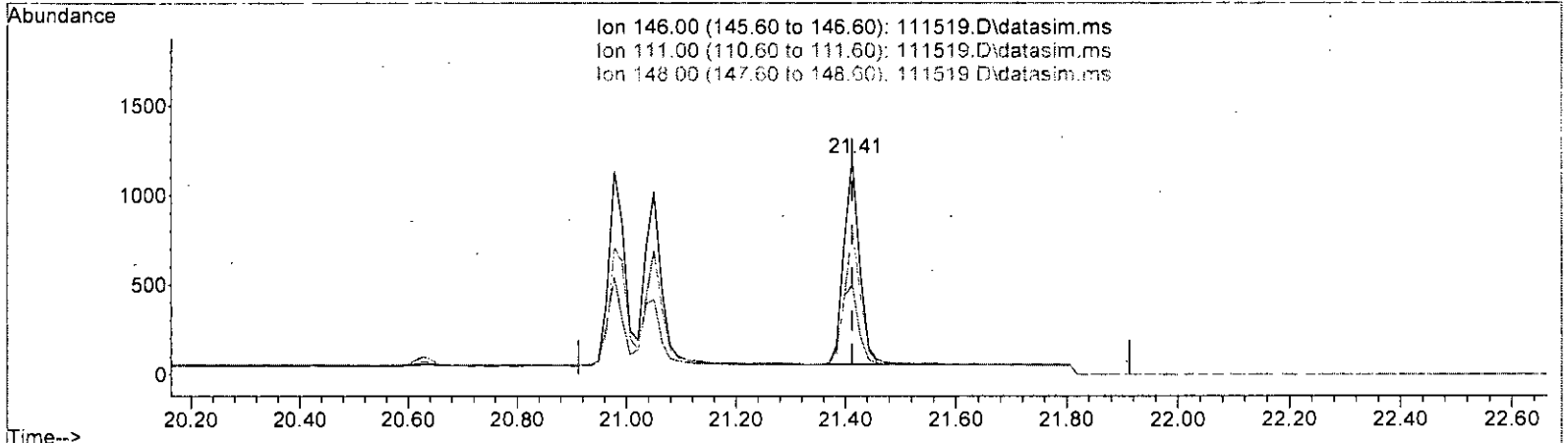
(75) 1,2-Dichlorobenzene (TMP)  
 21.413min 0.000 ppbv d  
 response 0

*W. H. Hester*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111519.D\data.ms

(75) 1,2-Dichlorobenzene (TMP)

21.413min (+ 0.000) 0.088 ppbv m

response 2266

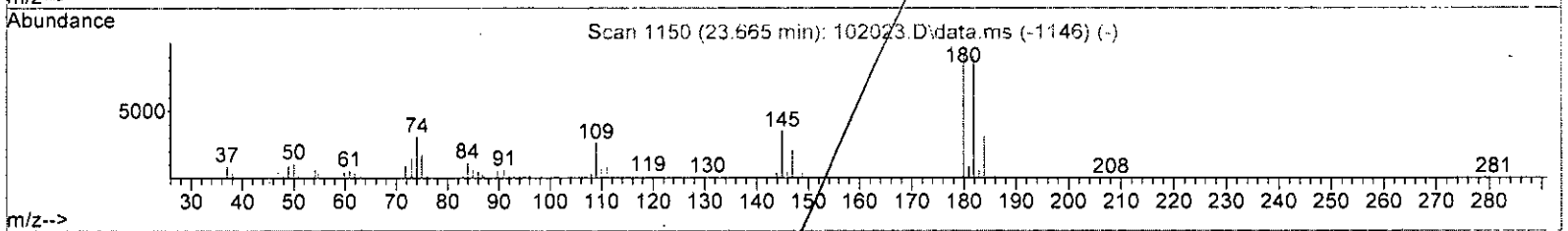
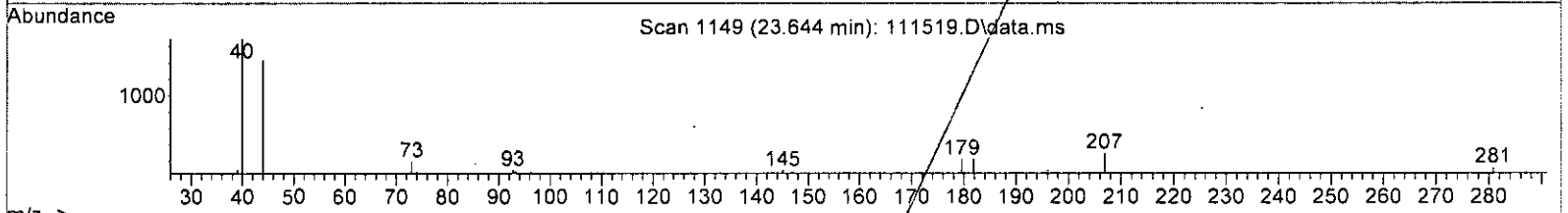
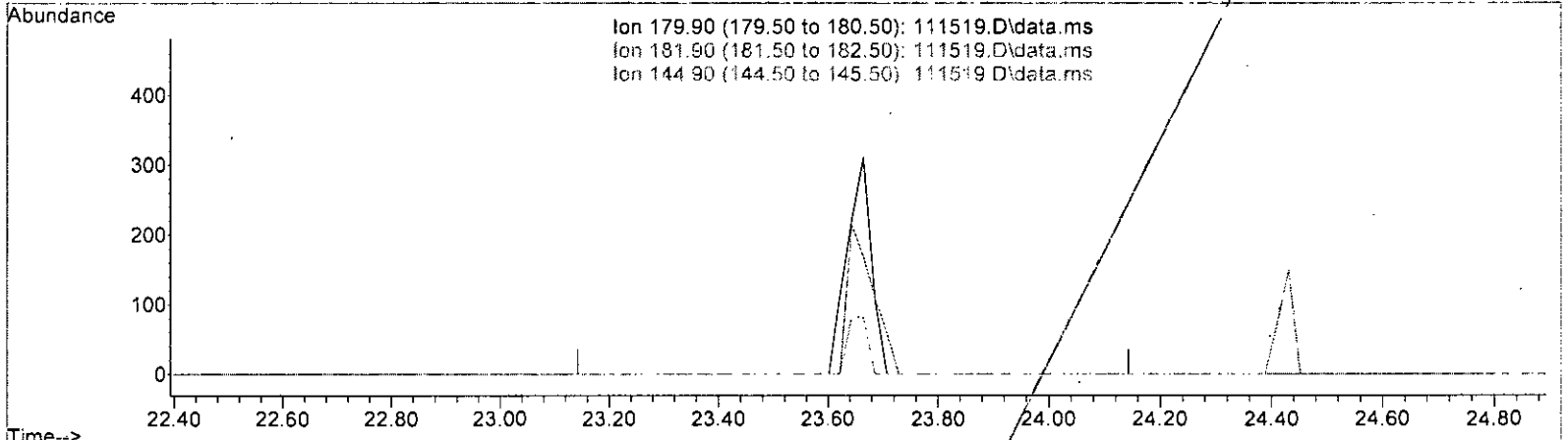
Ion	Exp%	Act%
146.00	100.00	100.00
111.00	42.90	41.69
148.00	63.20	67.58
0.00	0.00	0.00

*u/Mark*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(76) 1,2,4-Trichlorobenzene (TMP)

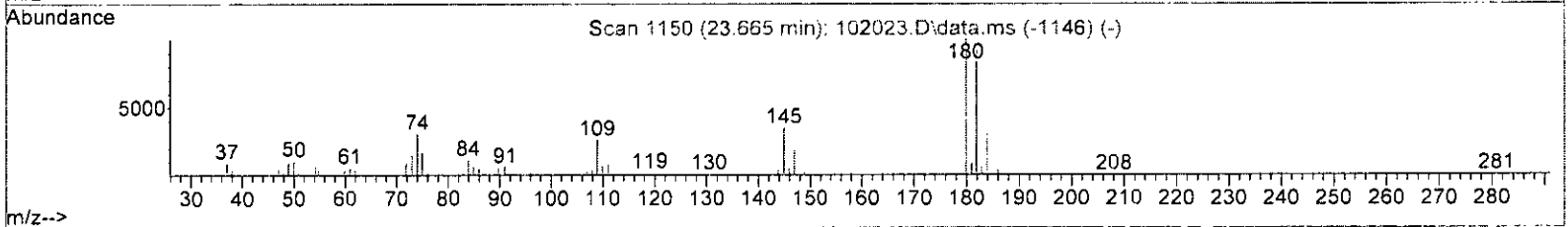
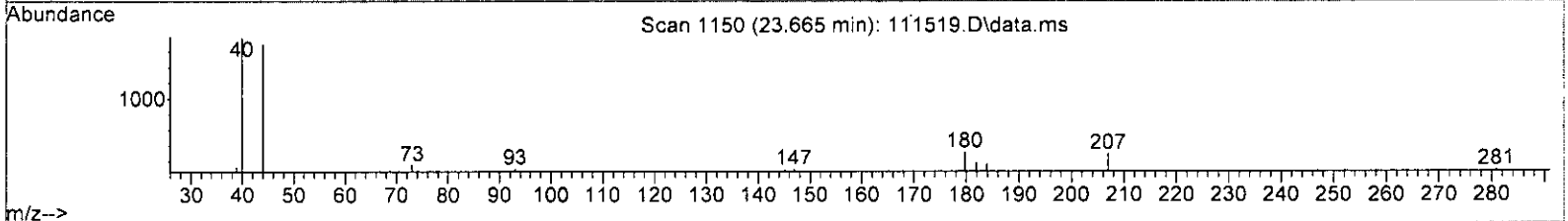
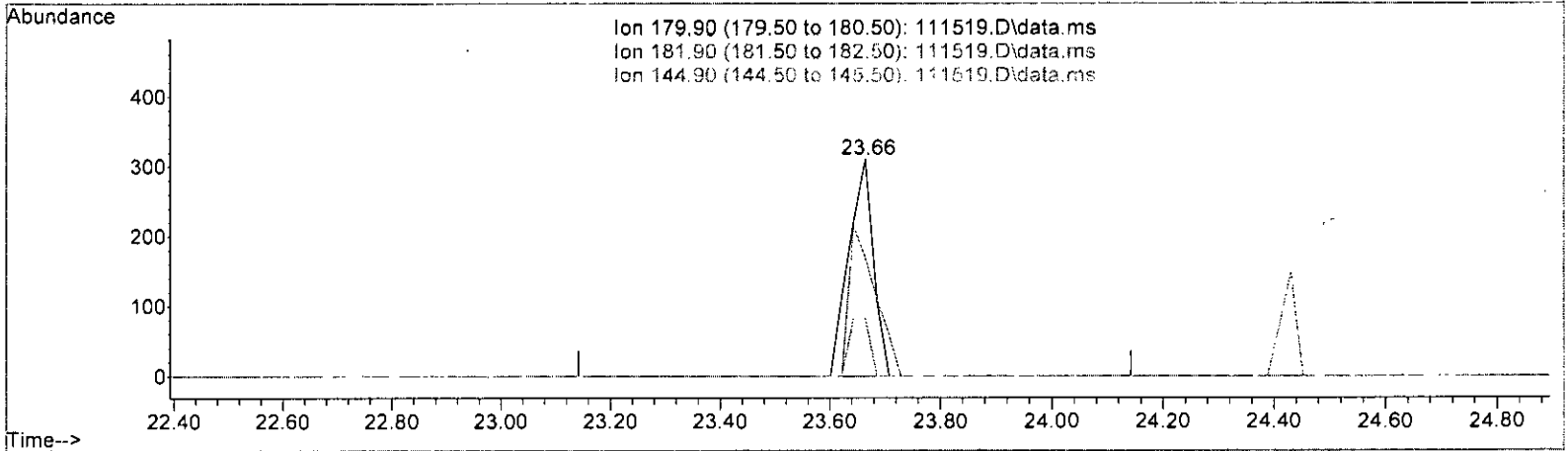
23.643min	0.000 ppbv d
response	0
Ion	Exp% Act%
179.90	100.00 0.00
181.90	94.50 0.00
144.90	30.80 0.00
0.00	0.00 0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111519.D\data.ms

(76) 1,2,4-Trichlorobenzene (TMP)

23.665min (+ 0.022) 0.067 ppbv m

response 956

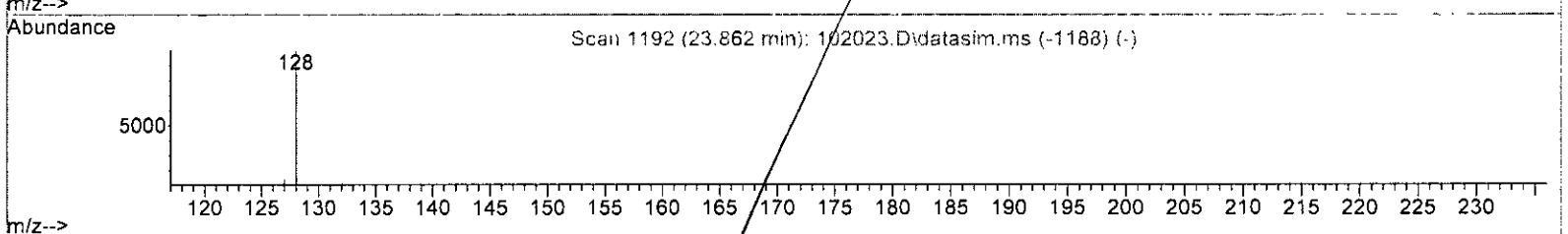
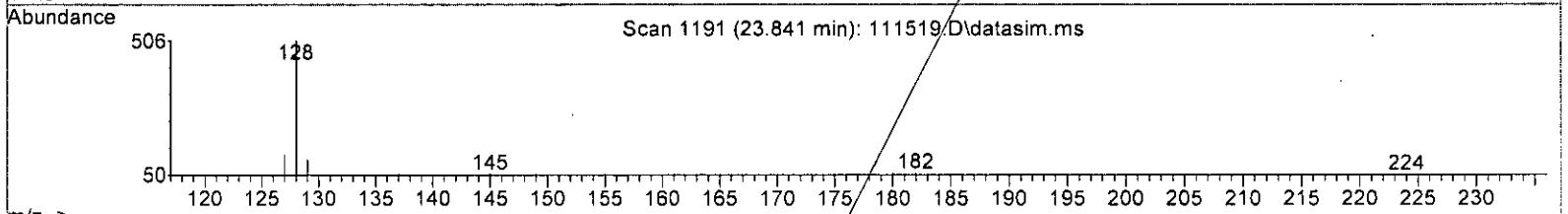
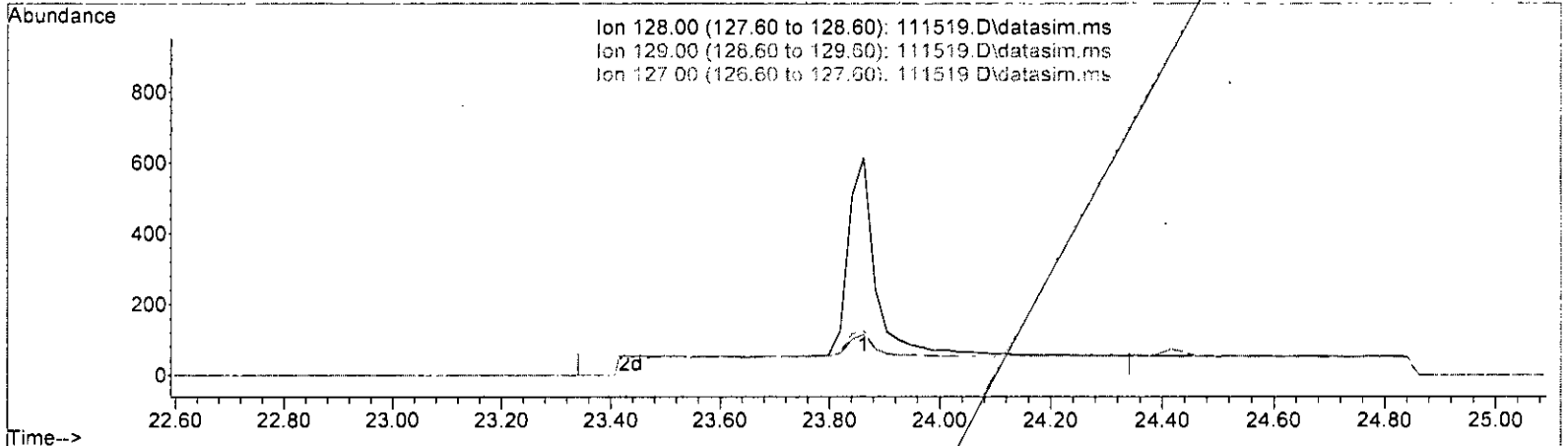
Ion	Exp%	Act%
179.90	100.00	100.00
181.90	94.50	54.52#
144.90	30.80	26.45
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(77) Naphthalene (TMP)

23.841min	0.000 ppbv d
response	0
Ion	Exp% Act%
128.00	100.00 0.00
129.00	11.00 0.00
127.00	13.20 0.00
0.00	0.00 0.00

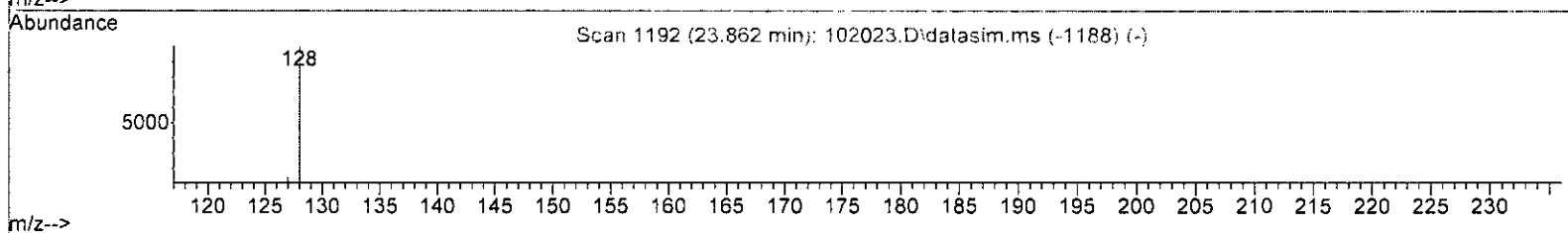
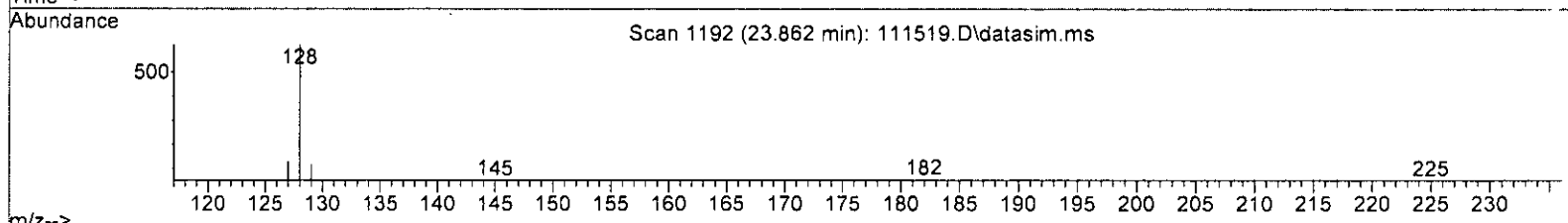
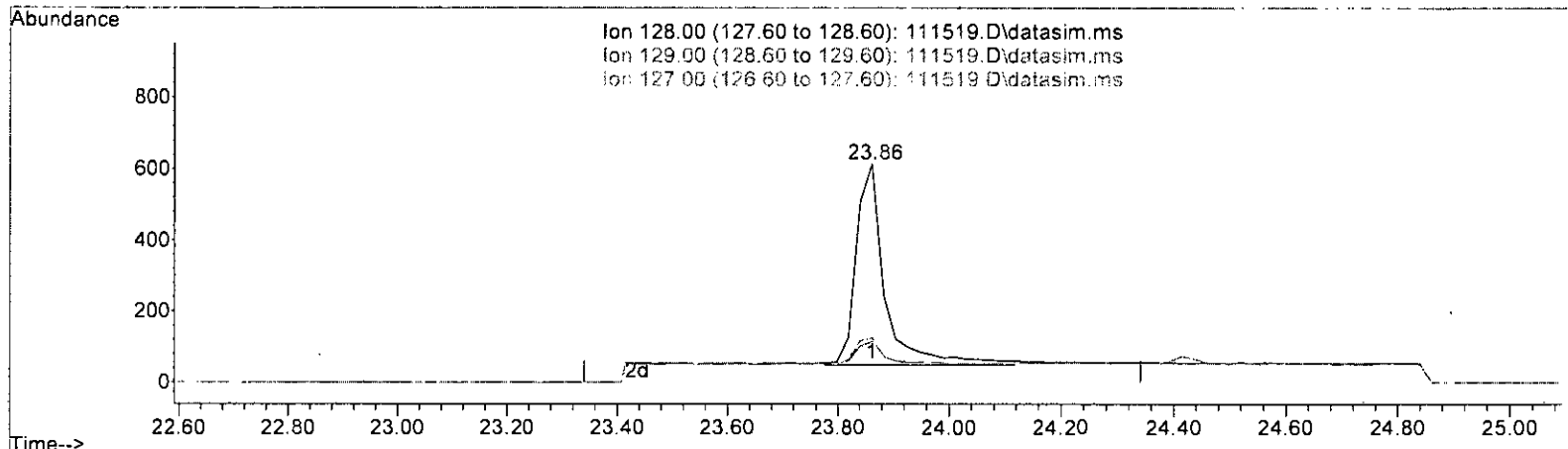
*Handwritten signature*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(77) Naphthalene (TMP)

23.862min (+ 0.021) 0.092 ppbv m

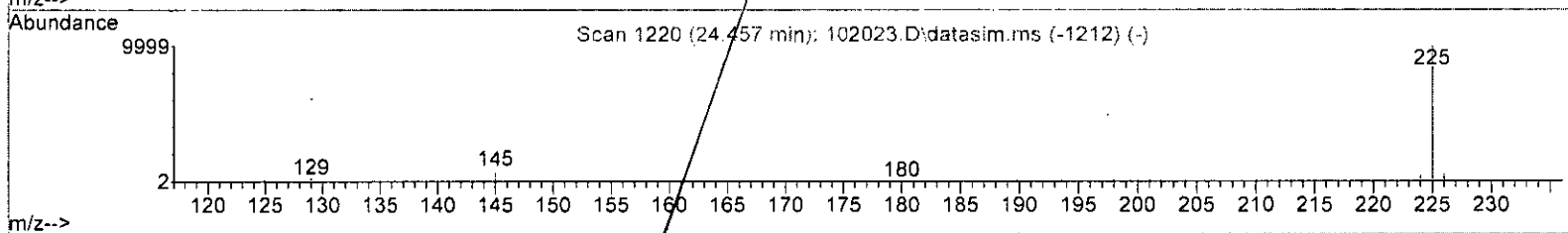
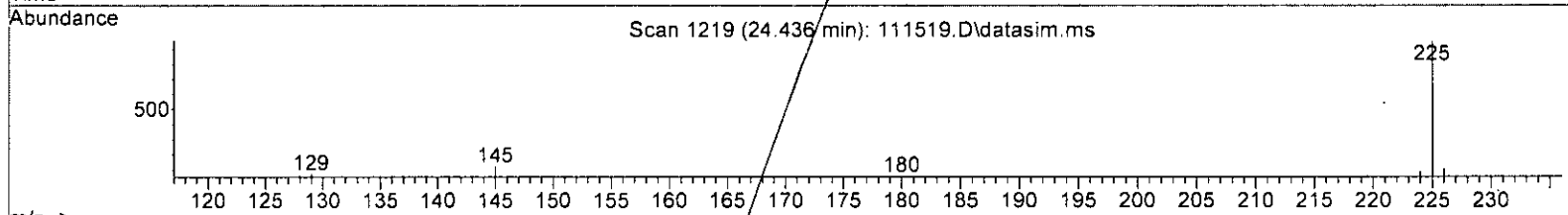
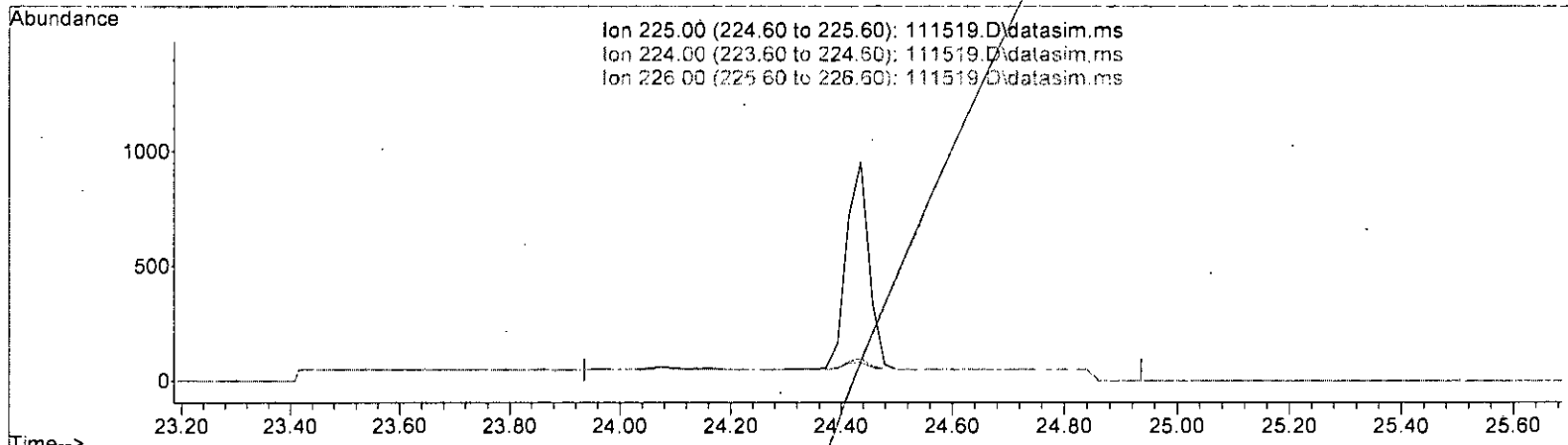
response	2039	
Ion	Exp%	Act%
128.00	100.00	100.00
129.00	11.00	18.76
127.00	13.20	20.39
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(78) Hexachlorobutadiene (TMP)

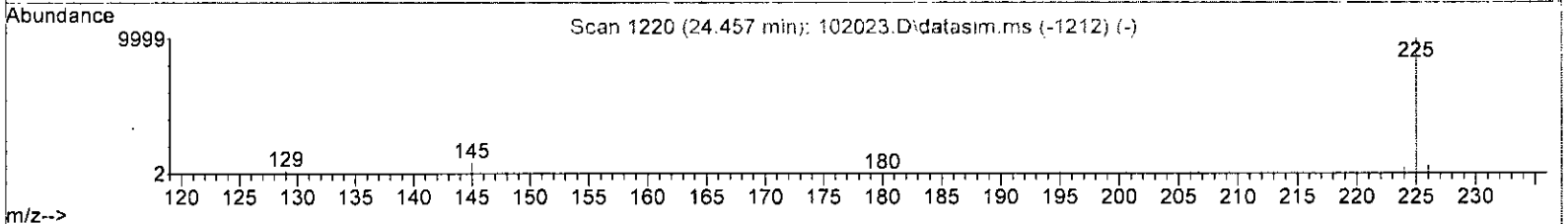
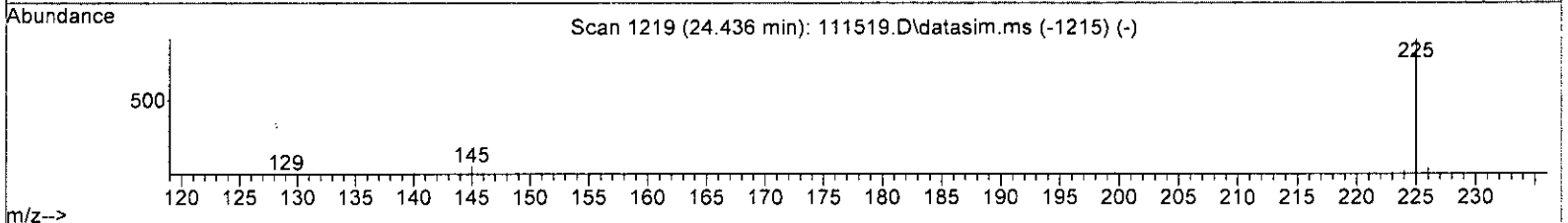
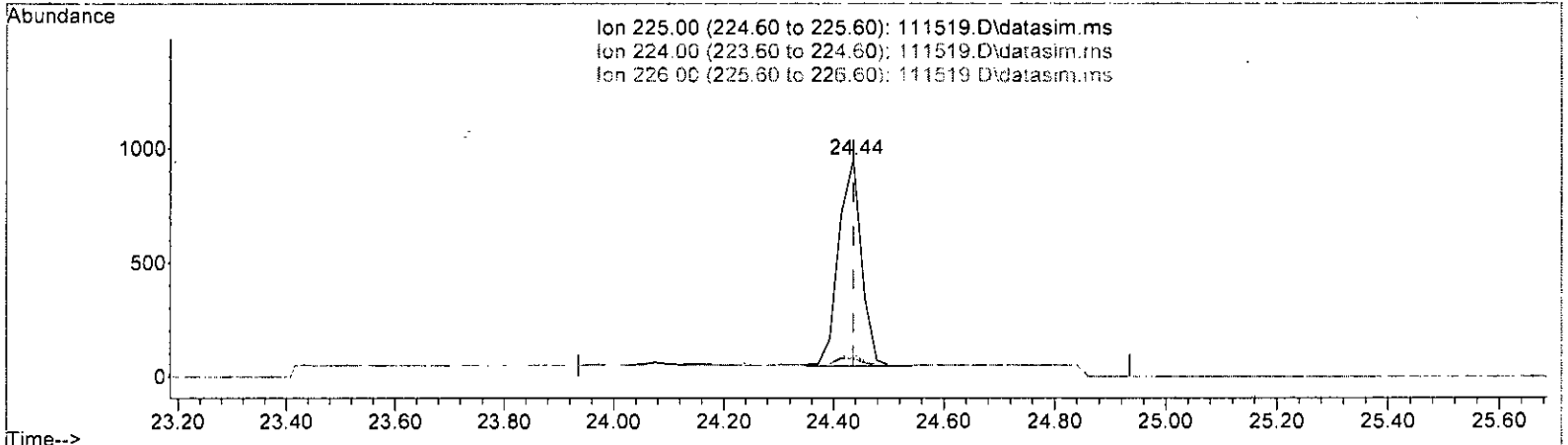
24.436min	0.000 ppbv d	
response	0	
Ion	Exp%	Act%
225.00	100.00	0.00
224.00	3.70	0.00
226.00	5.20	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111519.D\data.ms

(78) Hexachlorobutadiene (TMP)

24.436min (+ 0.000) 0.099 ppbv m

response	2616	
Ion	Exp%	Act%
225.00	100.00	100.00
224.00	3.70	8.60
226.00	5.20	10.28
0.00	0.00	0.00

*W/ 11/18/22*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.88	128	62284	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	285873	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	251782	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	157205	9.009	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	90.10%	
Target Compounds						
						Qvalue
2) Propene	3.41	41	1650	0.099	ppbv	82
3) Dichlorodifluoromethane	3.49	85	2289	0.089	ppbv	94
4) Chloromethane	0.00		0	N.D.	d	
5) F-114	3.84	85	2866	0.109	ppbv	77
6] Vinyl chloride	4.05	62	1161	0.101	ppbv	97
7] 1,3-Butadiene	4.17	54	728m	0.096	ppbv	
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	4.60	94	1683	0.146	ppbv	91
10] Chloroethane	4.84	64	470m	0.115	ppbv	
11] Vinyl bromide	5.28	106	999m	0.100	ppbv	
12) Ethanol	0.00		0	N.D.	d	
13] Acrolein	5.36	56	691m	0.152	ppbv	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	0.00		0	N.D.	d	
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	0.00		0	N.D.	d	
18] 1,1-Dichloroethene	6.63	96	1029	0.100	ppbv	86
19] trans-1,2-Dichloroethene	8.07	96	987	0.099	ppbv	86
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	0.00		0	N.D.	d	
23) CFC-113	7.15	101	1975	0.091	ppbv #	64
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	0.00		0	N.D.	d	
26) Vinyl acetate	0.00		0	N.D.	d	
27] 1,1-Dichloroethane	8.36	63	2108	0.101	ppbv	98
28] cis-1,2-Dichloroethene	9.62	96	1059	0.101	ppbv	94
29) Hexane	0.00		0	N.D.	d	
30] Chloroform	10.08	83	2435	0.096	ppbv	99
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	10.75	42	1212	0.108	ppbv	67
33) 2-Butanone (MEK)	8.91	72	345	0.090	ppbv #	69
34] 1,2-Dichloroethane (EDC)	11.33	62	1571	0.094	ppbv	98
35] 1,1,1-Trichloroethane	11.81	97	1935m	0.093	ppbv	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37] Benzene	12.61	78	6181	0.131	ppbv	94
38) Cyclohexane	0.00		0	N.D.	d	
40] 1,2-Dichloropropane	13.80	63	1540m	0.099	ppbv	

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

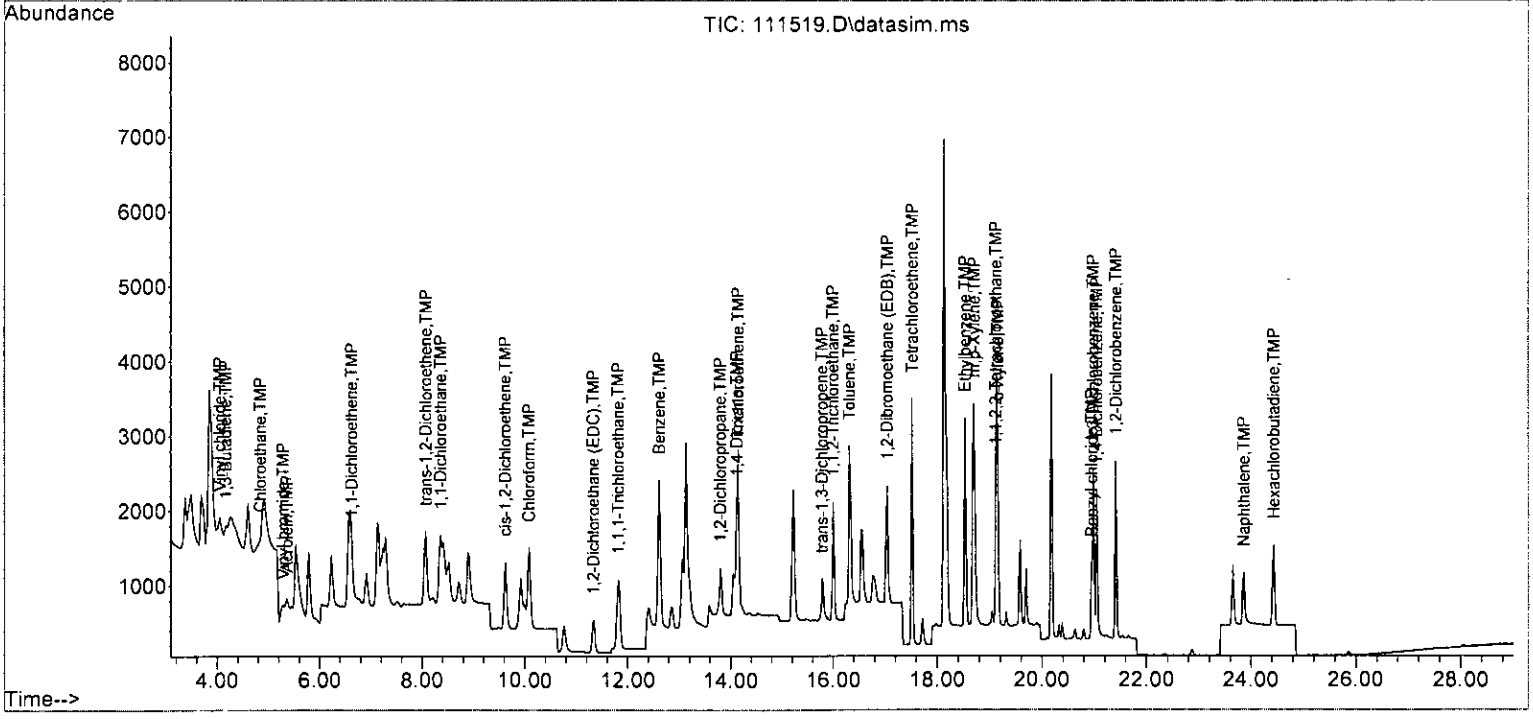
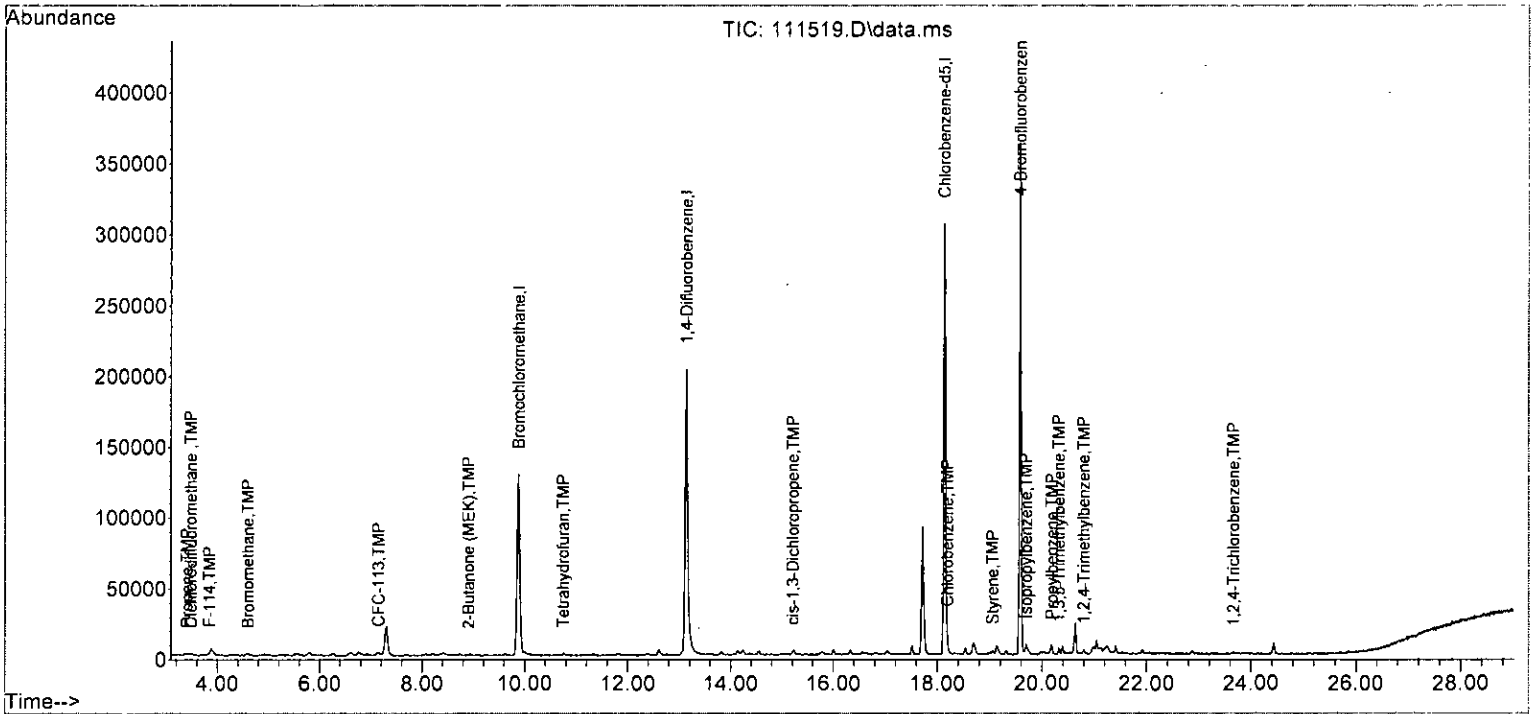
Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.12	88	712	0.108	ppbv	80
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45) Bromodichloromethane	0.00		0	N.D.	d	
46] Trichloroethene	14.14	95	1810	0.107	ppbv	94
47) cis-1,3-Dichloropropene	15.20	75	1584	0.093	ppbv	92
48) 4-Methyl-2-pentanone	0.00		0	N.D.		
49] trans-1,3-Dichloropropene	15.78	75	1484	0.092	ppbv	84
50] Toluene	16.31	92	2091m	0.103	ppbv	
51] 1,1,2-Trichloroethane	16.00	83	1487	0.094	ppbv	94
52) 2-Hexanone	0.00		0	N.D.	d	
53] Tetrachloroethene	17.52	164	1574	0.112	ppbv	92
54) Dibromochloromethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	2202m	0.093	ppbv	
57) Chlorobenzene	18.19	112	3473	0.125	ppbv	89
58] Ethylbenzene	18.53	91	4477	0.092	ppbv	97
59] 1,1,2,2-Tetrachloroethane	19.11	83	3228	0.091	ppbv	89
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	19.70	105	4501	0.100	ppbv #	90
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63) Propylbenzene	20.19	91	6637	0.080	ppbv	96
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65] m,p-Xylene	18.70	106	2860	0.179	ppbv	97
66] o-Xylene	19.15	106	1396	0.090	ppbv	99
67) Styrene	19.05	104	1737	0.084	ppbv	74
68) Bromoform	0.00		0	N.D.		
70] Benzyl chloride	20.95	91	1628m	0.058	ppbv	
71) 1,3,5-Trimethylbenzene	20.32	105	3200m	0.088	ppbv	
72) 1,2,4-Trimethylbenzene	20.80	105	2264m	0.132	ppbv	
73] 1,3-Dichlorobenzene	20.98	146	2242m	0.088	ppbv	
74] 1,4-Dichlorobenzene	21.05	146	1951m	0.082	ppbv	
75] 1,2-Dichlorobenzene	21.41	146	2266m	0.088	ppbv	
76) 1,2,4-Trichlorobenzene	23.66	180	956m	0.067	ppbv	
77] Naphthalene	23.86	128	2039m	0.092	ppbv	
78] Hexachlorobutadiene	24.44	225	2616m	0.099	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	0.100	0.099	1.0	100	0.00
3 TMP Dichlorodifluoromethane	0.100	0.089	11.0	100	0.00
4 TMP Chloromethane	0.100	0.000	100.0#	0	-3.73#
5 TMP F-114	0.100	0.109	-9.0	100	-0.04
6 TMP Vinyl chloride	0.100	0.101	-1.0	100	-0.04
7 TMP 1,3-Butadiene	0.100	0.096	4.0	97	-0.12
8 TMP Butane	-1.000	0.000	0.0	0	-4.32#
9 TMP Bromomethane	0.100	0.146	-46.0#	100	0.00
10 TMP Chloroethane	0.100	0.115	-15.0	104	0.00
11 TMP Vinyl bromide	0.100	0.100	0.0	96	-0.04
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.96#
13 TMP Acrolein	0.100	0.152	-52.0#	99	-0.06
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	0.100	0.000	100.0#	0	-5.84#
16 TMP Acetone	-1.000	0.000	0.0	0	-5.57#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	0.100	0.100	0.0	100	0.00
19 TMP trans-1,2-Dichloroethene	0.100	0.099	1.0	100	-0.03
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.80#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	-1.000	0.000	0.0	0	-6.94#
23 TMP CFC-113	0.100	0.091	9.0	100	0.00
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	-1.000	0.000	0.0	0	-8.43#
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.54#
27 TMP 1,1-Dichloroethane	0.100	0.101	-1.0	100	0.00
28 TMP cis-1,2-Dichloroethene	0.100	0.101	-1.0	100	-0.02
29 TMP Hexane	-1.000	0.000	0.0	0	-10.01#
30 TMP Chloroform	0.100	0.096	4.0	100	-0.02
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.92#
32 TMP Tetrahydrofuran	0.100	0.108	-8.0	100	0.00
33 TMP 2-Butanone (MEK)	0.100	0.090	10.0	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	0.100	0.094	6.0	100	0.00
35 TMP 1,1,1-Trichloroethane	0.100	0.093	7.0	100	-0.01
36 TMP Carbon tetrachloride	0.100	0.000	100.0#	0	-12.86#
37 TMP Benzene	0.100	0.131	-31.0#	100	0.00
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.07#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.100	0.099	1.0	97	0.00
41 TMP 1,4-Dioxane	0.100	0.108	-8.0	100	0.02
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.24#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.56#
45 TMP Bromodichloromethane	0.100	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	0.100	0.107	-7.0	100	0.00
47 TMP cis-1,3-Dichloropropene	0.100	0.093	7.0	100	0.00
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.23#
49 TMP trans-1,3-Dichloropropene	0.100	0.092	8.0	100	0.00
50 TMP Toluene	0.100	0.103	-3.0	100	0.00
51 TMP 1,1,2-Trichloroethane	0.100	0.094	6.0	100	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	0.100	0.112	-12.0	100	0.00
54 TMP Dibromochloromethane	0.100	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.100	0.093	7.0	96	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	0.100	0.125	-25.0	100	0.00
58 TMP Ethylbenzene	0.100	0.092	8.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.100	0.091	9.0	100	-0.02
60 TMP Nonane	-1.000	0.000	0.0	0	-19.30#
61 TMP Isopropylbenzene	0.100	0.100	0.0	100	0.00
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	0.100	0.080	20.0	100	0.00
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.32#
65 TMP m,p-Xylene	0.200	0.179	10.5	100	0.00
66 TMP o-Xylene	0.100	0.090	10.0	100	0.00
67 TMP Styrene	0.100	0.084	16.0	100	0.00
68 TMP Bromoform	0.100	0.000	100.0#	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.009	9.9	100	0.00
70 TMP Benzyl chloride	0.100	0.058	42.0#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	0.100	0.088	12.0	97	-0.07
72 TMP 1,2,4-Trimethylbenzene	0.100	0.132	-32.0#	100	0.00
73 TMP 1,3-Dichlorobenzene	0.100	0.088	12.0	100	0.00
74 TMP 1,4-Dichlorobenzene	0.100	0.082	18.0	97	0.00
75 TMP 1,2-Dichlorobenzene	0.100	0.088	12.0	98	0.00
76 TMP 1,2,4-Trichlorobenzene	0.100	0.067	33.0#	100	0.02
77 TMP Naphthalene	0.100	0.092	8.0	104	0.02
78 TMP Hexachlorobutadiene	0.100	0.099	1.0	102	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	2.649	-70.2#	100	0.00
3 TMP Dichlorodifluoromethane	4.123	3.675	10.9	100	0.00
4 TMP Chloromethane	1.882	0.000#	100.0#	0#	-3.73#
5 TMP F-114	4.217	4.602	-9.1	100	-0.04
6 TMP Vinyl chloride	1.851	1.864	-0.7	100	-0.04
7 TMP 1,3-Butadiene	1.216	1.169	3.9	97	-0.12
8 TMP Butane	2.183	0.000	100.0#	0#	-4.32#
9 TMP Bromomethane	1.847	2.702	-46.3#	100	0.00
10 TMP Chloroethane	0.655	0.755	-15.3	104	0.00
11 TMP Ethyl bromide	1.609	1.604	0.3	96	-0.04
12 TMP Ethanol	0.663	0.000	100.0#	0#	-4.96#
13 TMP Acrolein	0.729	1.109	-52.1#	99	-0.06
14 TMP Pentane	2.461	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.781	0.000#	100.0#	0#	-5.84#
16 TMP Acetone	0.710	0.000#	100.0#	0#	-5.57#
17 TMP 2-Propanol	3.096	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.645	1.652	-0.4	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.585	0.8	100	-0.03
20 TMP Methylene chloride	1.479	0.000#	100.0#	0#	-6.80#
21 TMP t-Butyl alcohol (TBA)	2.668	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.056	0.000	100.0#	0#	-6.94#
23 TMP CFC-113	3.469	3.171	8.6	100	0.00
24 TMP Carbon disulfide	5.167	0.000	100.0#	0#	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	3.434	0.000#	100.0#	0#	-8.43#
26 TMP Vinyl acetate	3.801	0.000#	100.0#	0#	-8.54#
27 TMP 1,1-Dichloroethane	3.342	3.384	-1.3	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.700	-0.6	100	-0.02
29 TMP Hexane	2.068	0.000	100.0#	0#	-10.01#
30 TMP Chloroform	4.060	3.910	3.7	100	-0.02
31 TMP Ethyl acetate	3.789	0.000	100.0#	0#	-9.92#
32 TMP Tetrahydrofuran	1.809	1.946	-7.6	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.554	10.5	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.522	6.1	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.107	7.1	100	-0.01
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	9.924	-74.5#	100	0.00
38 TMP Cyclohexane	1.367	0.000	100.0#	0#	-13.07#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.539	0.4	97	0.00
41 TMP 1,4-Dioxane	0.230	0.249	-8.3	100	0.02
42 TMP 2,2,4-Trimethylpentane	1.598	0.000	100.0#	0#	-14.24#
43 TMP Methyl methacrylate	0.485	0.000	100.0#	0#	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111519.D  
 Acq On : 16 Nov 2022 5:54 am  
 Operator : bat  
 Sample : 0.1 ppbv 67-196c  
 Misc : T5, 250cc of 0.1ppbv  
 ALS Vial : 19 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 13:30:08 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.000	100.0#	0#	-14.56#
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.633	-6.7	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.554	7.5	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.000	100.0#	0#	-15.23#
49 TMP trans-1,3-Dichloropropene	0.563	0.519	7.8	100	0.00
50 TMP Toluene	0.707	0.731	-3.4	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.520	5.5	100	0.00
52 TMP 2-Hexanone	0.846	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.490	0.551	-12.4	100	0.00
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.770	6.6	96	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.379	-25.2	100	0.00
58 TMP Ethylbenzene	1.968	1.778	9.7	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.282	8.0	100	-0.02
60 TMP Nonane	0.981	0.000	100.0#	0#	-19.30#
61 TMP Isopropylbenzene	1.792	1.788	0.2	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.292	2.636	19.9	100	0.00
64 TMP 4-Ethyltoluene	1.611	0.000	100.0#	0#	-20.32#
65 TMP m,p-Xylene	0.633	0.568	10.3	100	0.00
66 TMP o-Xylene	0.615	0.554	9.9	100	0.00
67 TMP Styrene	0.819	0.690	15.8	100	0.00
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.624	10.0	100	0.00
70 TMP Benzyl chloride	0.987	0.647	34.4#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.271	12.3	97	-0.07
72 TMP 1,2,4-Trimethylbenzene	1.247	0.899	27.9	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	0.890	12.1	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.775	18.2	97	0.00
75 TMP 1,2-Dichlorobenzene	1.024	0.900	12.1	98	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.380	39.3#	100	0.02
77 TMP Naphthalene	1.132	0.810	28.4	104	0.02
78 TMP Hexachlorobutadiene	1.045	1.039	0.6	102	0.00

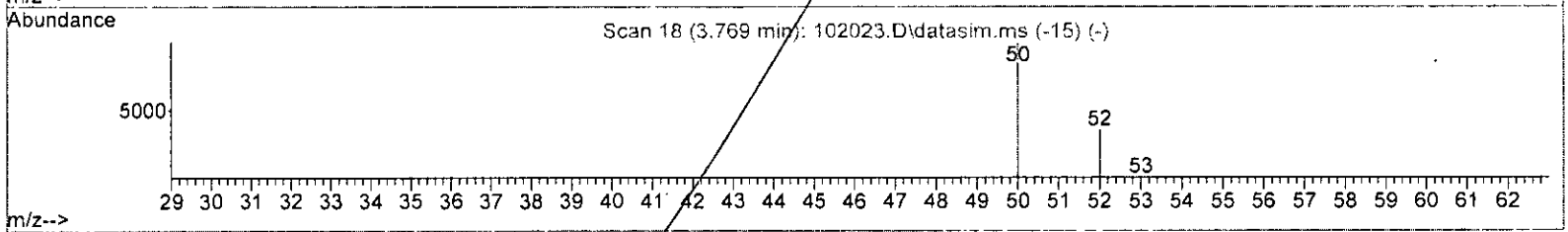
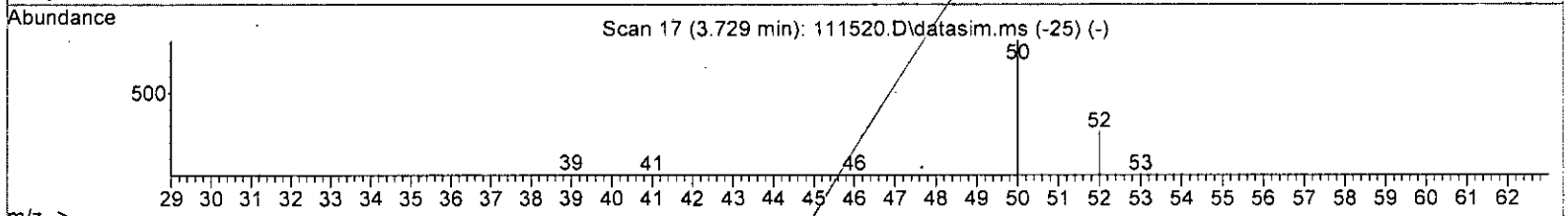
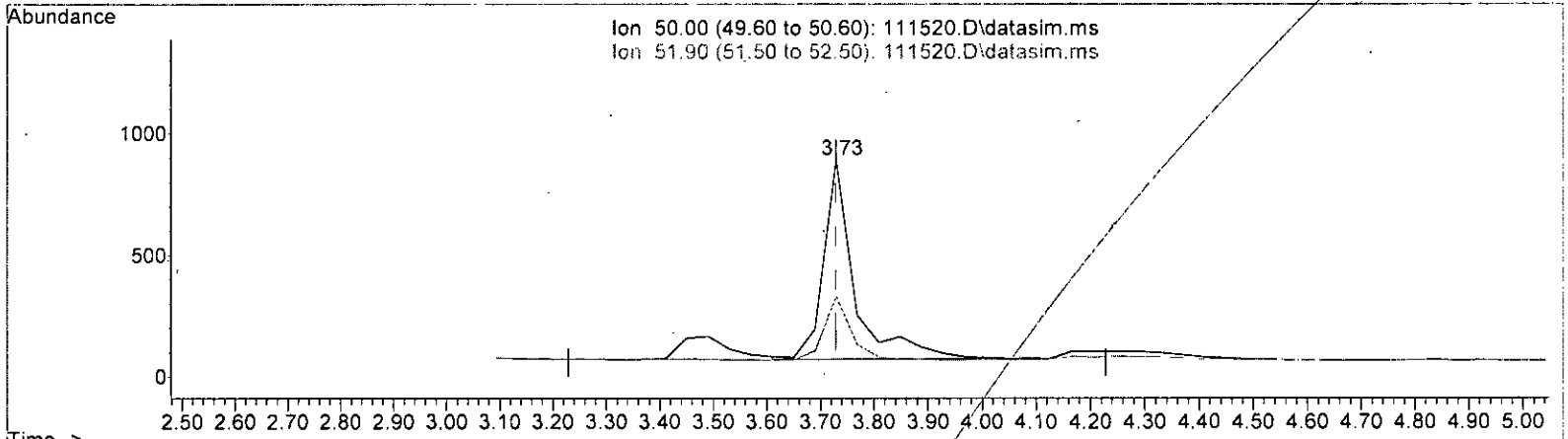
(#) = Out of Range

SPCC's out = 11 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

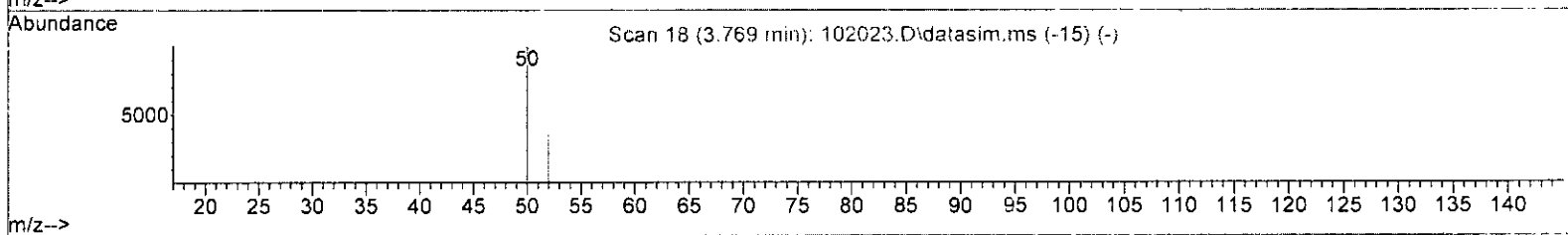
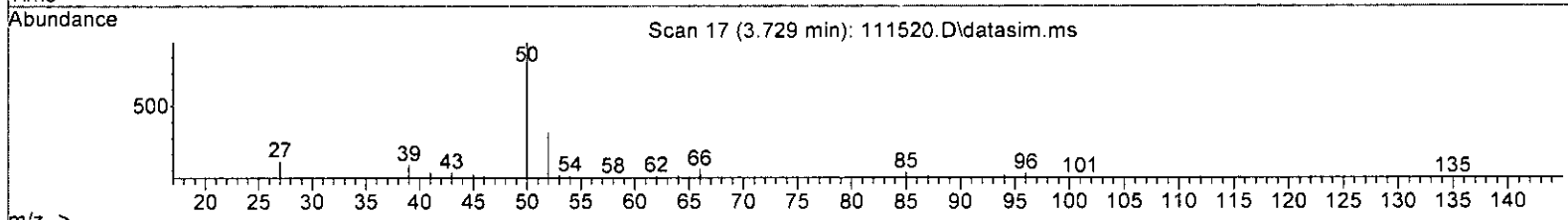
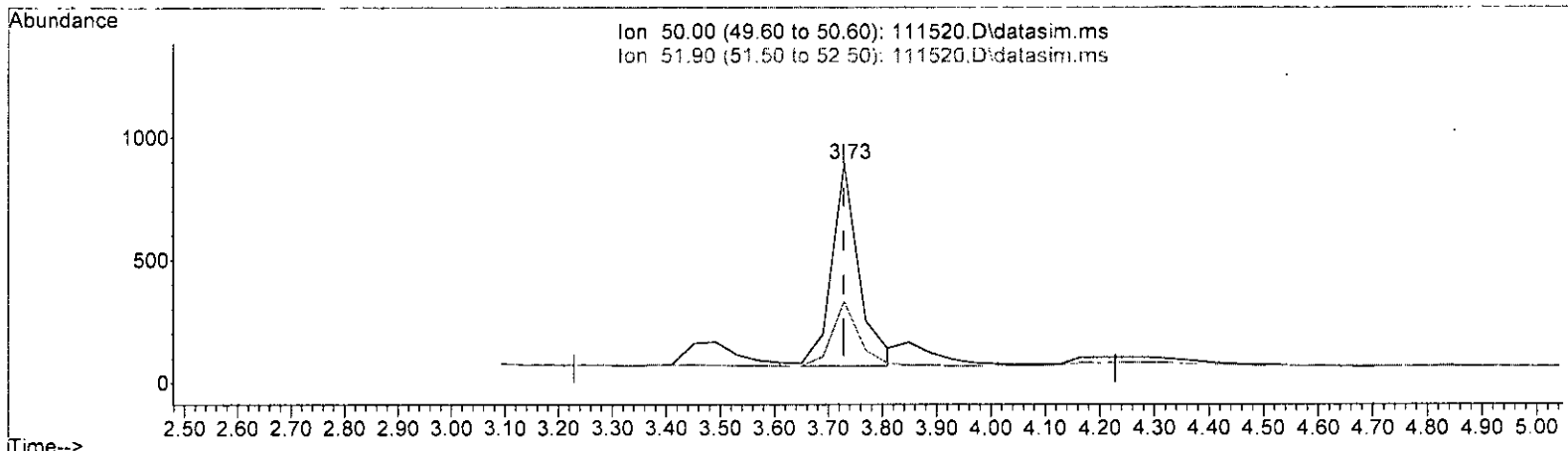
(4) Chloromethane (TMP)			
3.729min (+ 0.000)	0.276 ppbv		
response	3282		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	32.11	
0.00	0.00	0.00	
0.00	0.00	0.00	

*bat*  
*11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

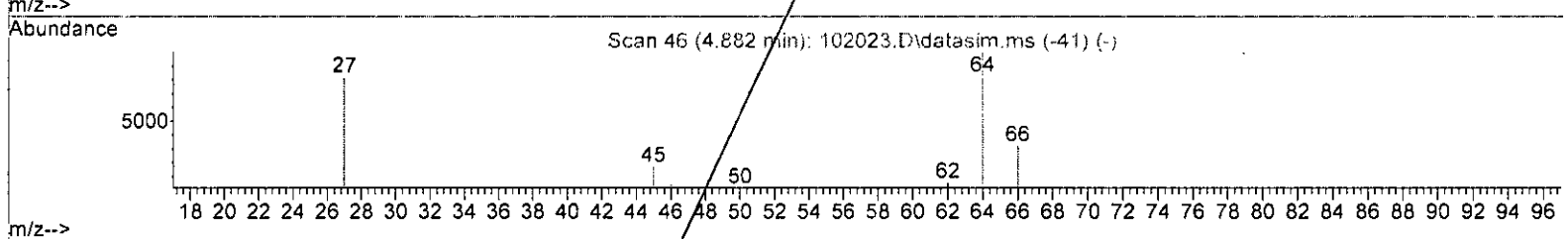
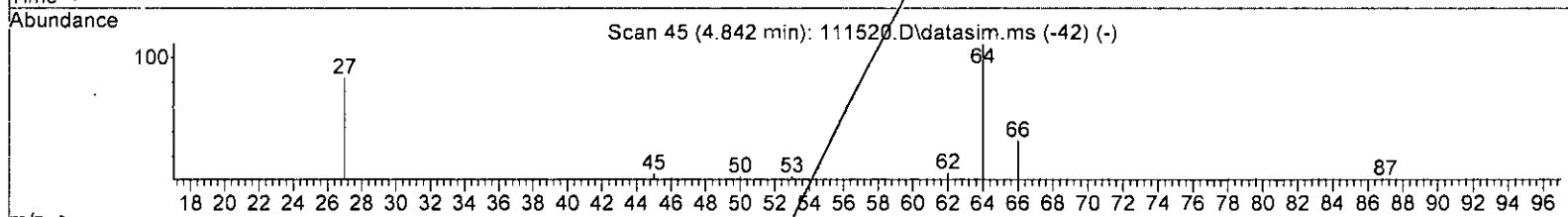
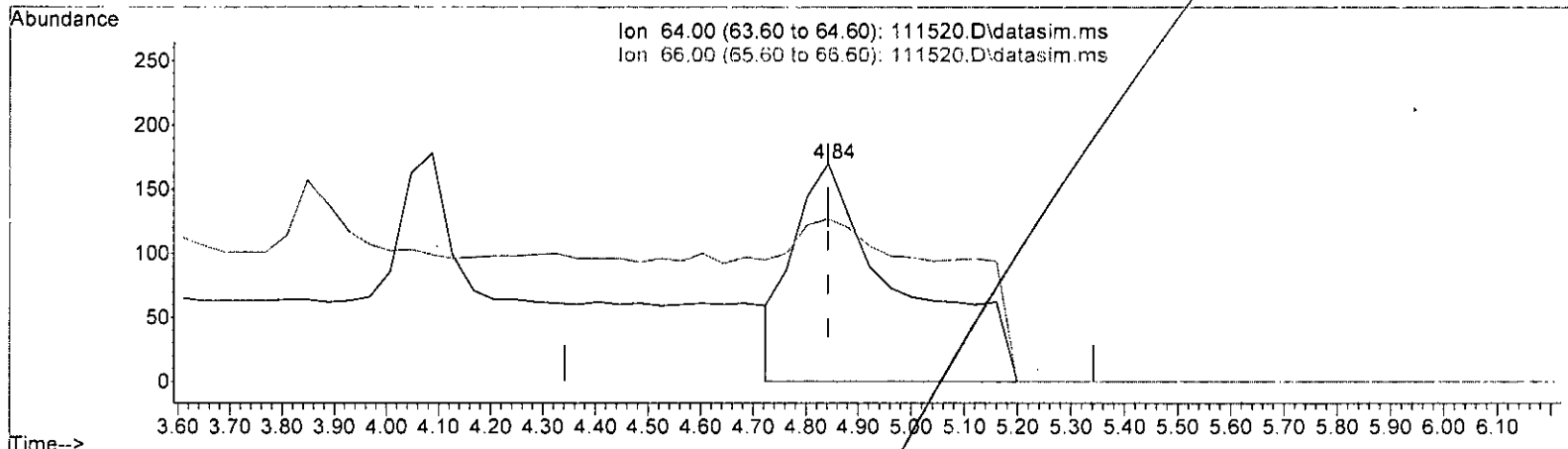
(4) Chloromethane (TMP)			
3.729min (+ 0.000)	0.245 ppbv m		
response	2918		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	37.07	
0.00	0.00	0.00	
0.00	0.00	0.00	

*W/Check*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-1968  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(10) Chloroethane (TMP)  
 4.842min (-0.000) 0.557 ppbv

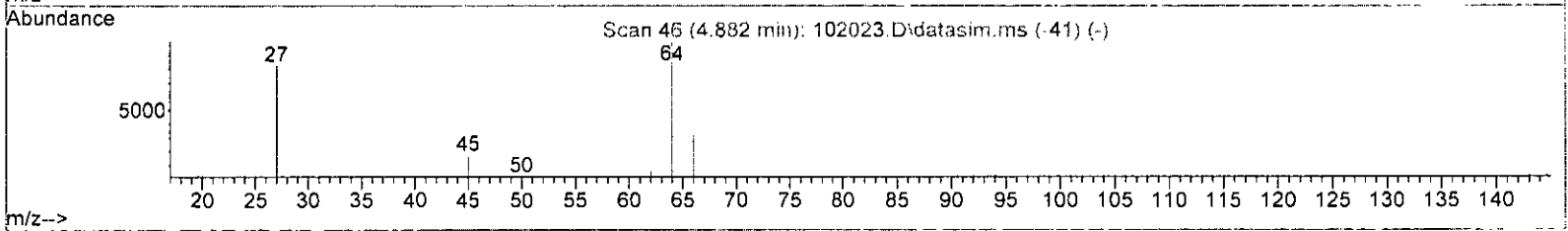
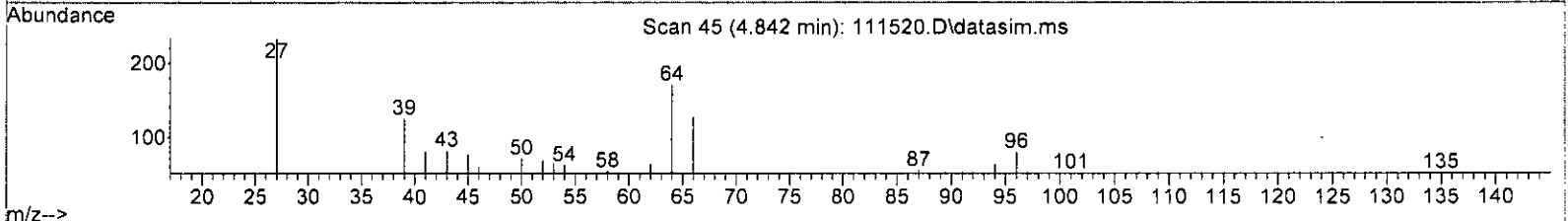
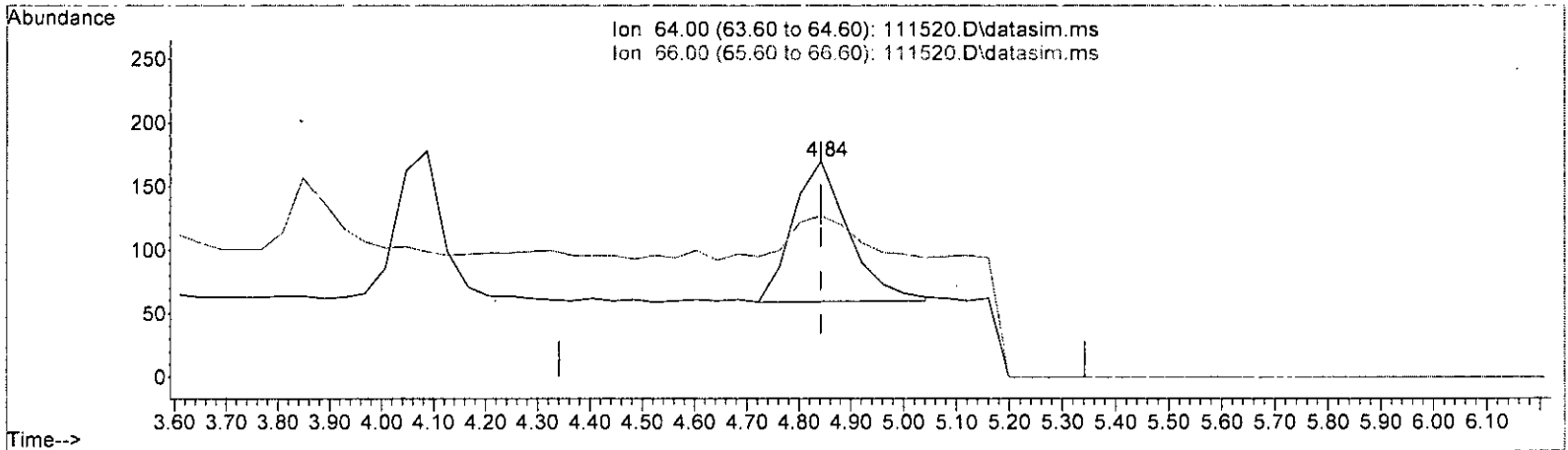
response	2305
Ion	Exp% Act%
64.00	100.00 100.00
66.00	31.80 74.71#
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

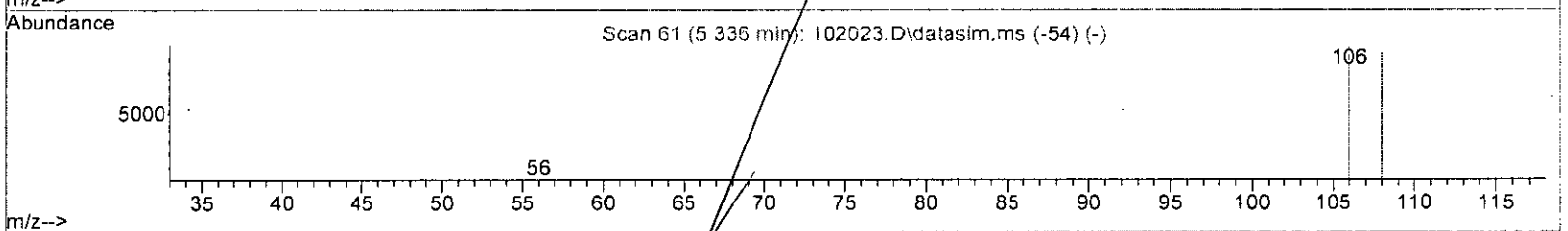
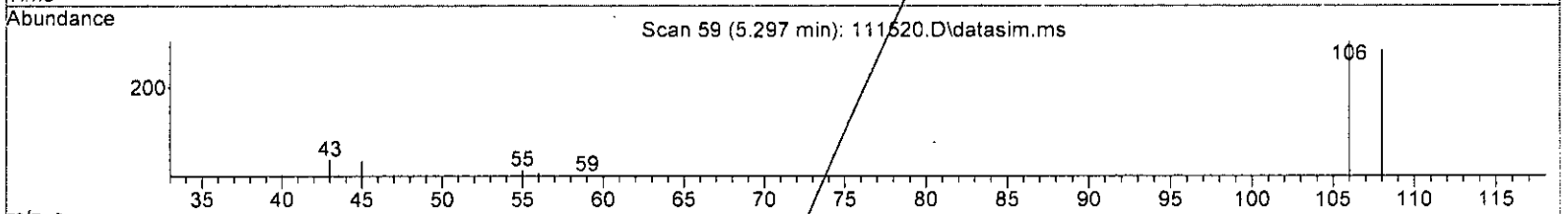
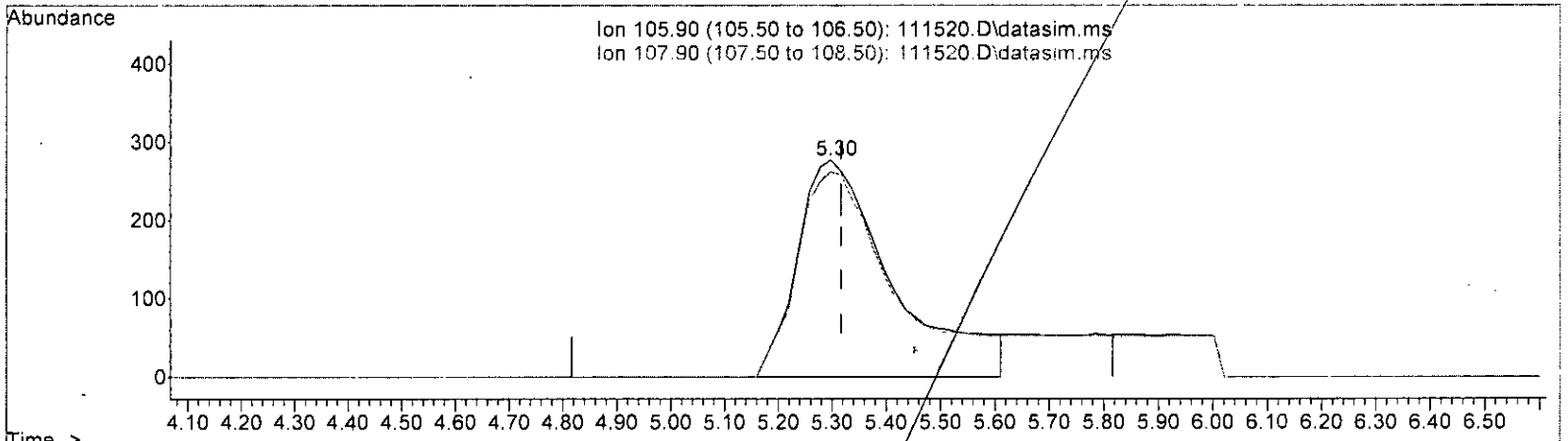
(10) Chloroethane (TMP)		
4.842min (-0.000)	0.199 ppbv m	
response	825	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	74.71#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

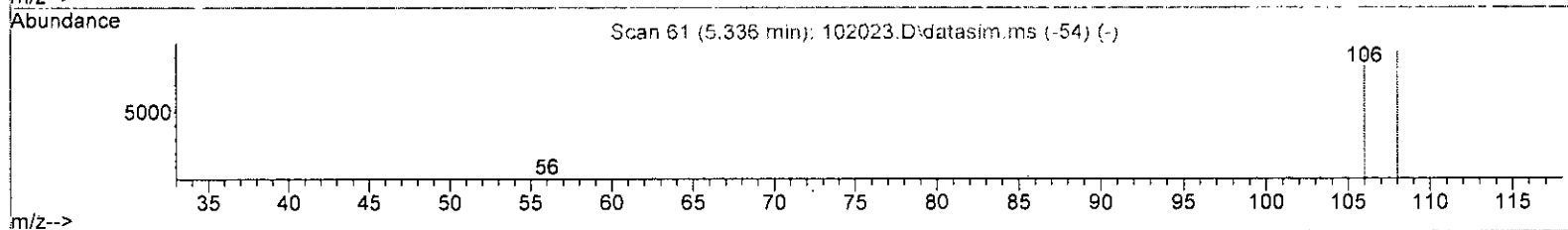
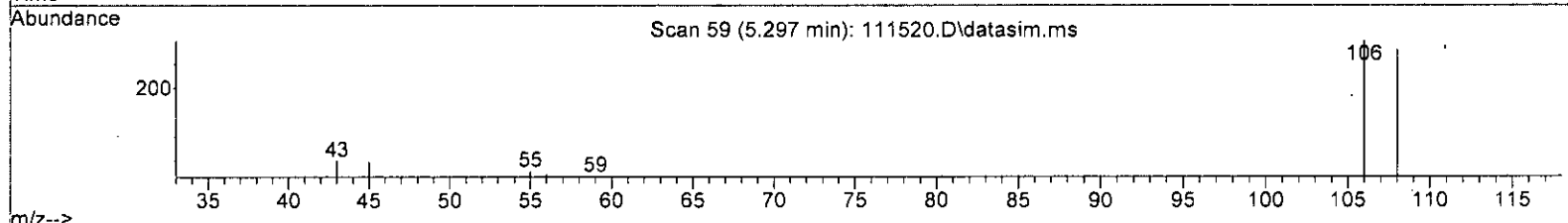
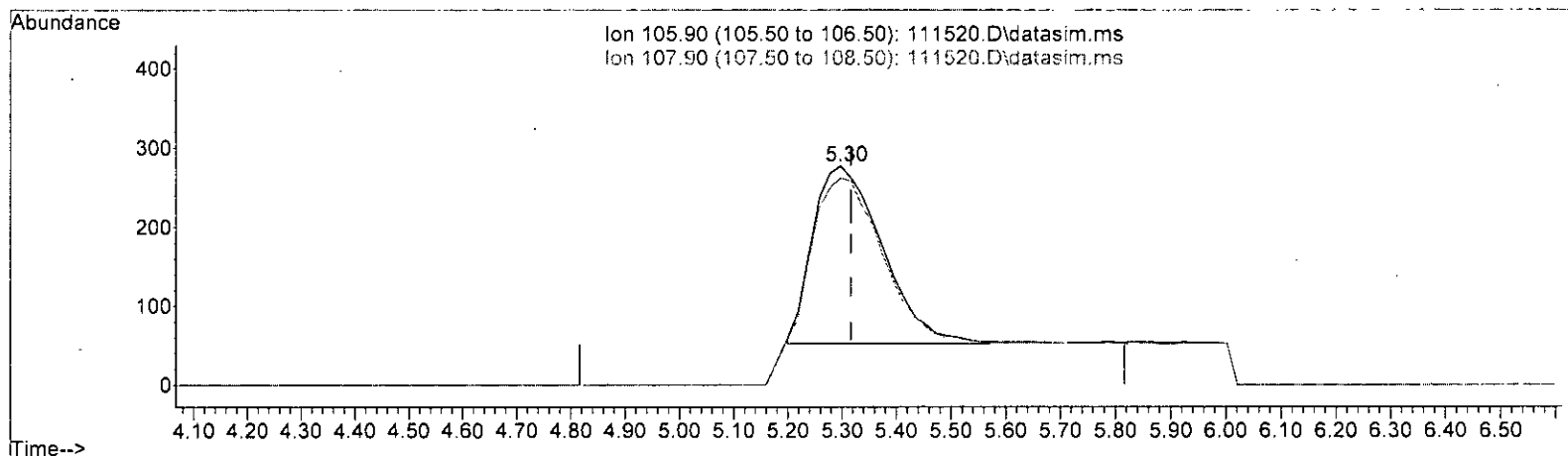
(11) Vinyl bromide (TMP)		
5.297min (-0.020) 0.359 ppbv		
response	3654	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	100.33
0.00	0.00	0.00
0.00	0.00	0.00

5/11/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

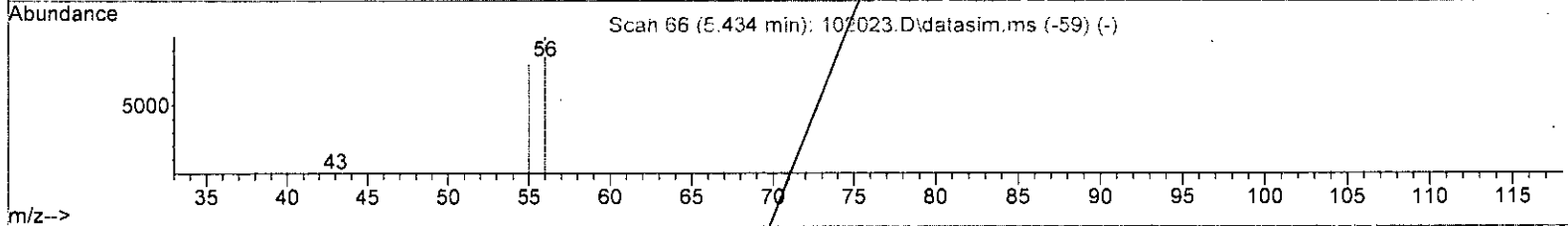
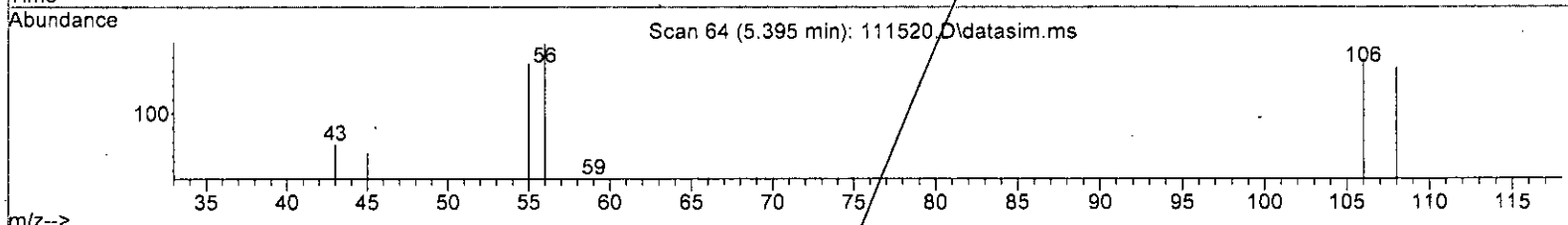
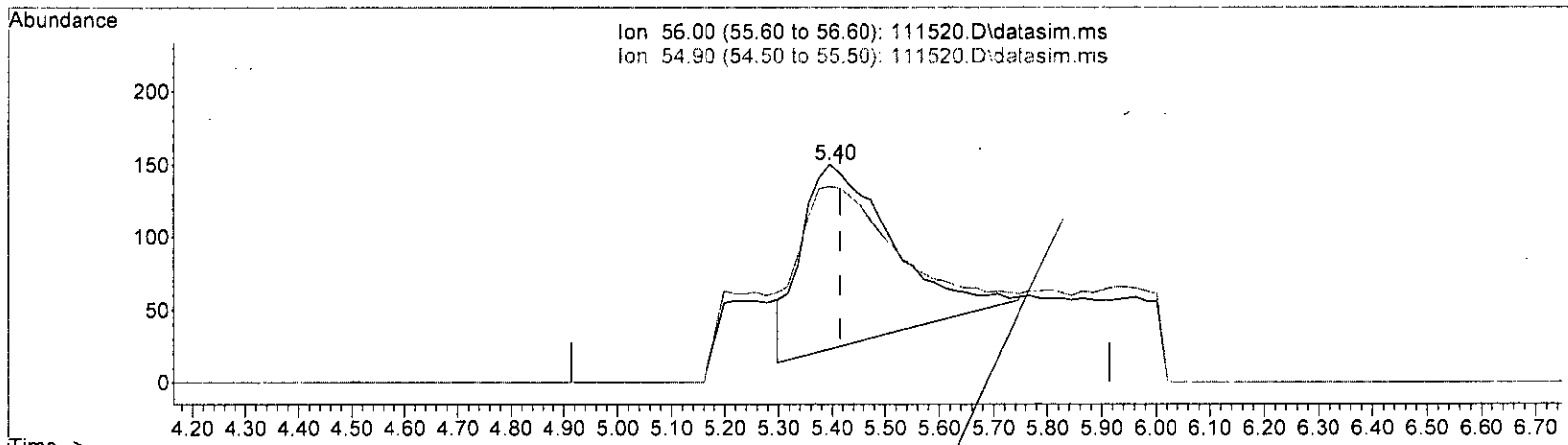
(11) Vinyl bromide (TMP)		
5.297min (-0.020) 0.196 ppbv m		
response	1998	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	183.48#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

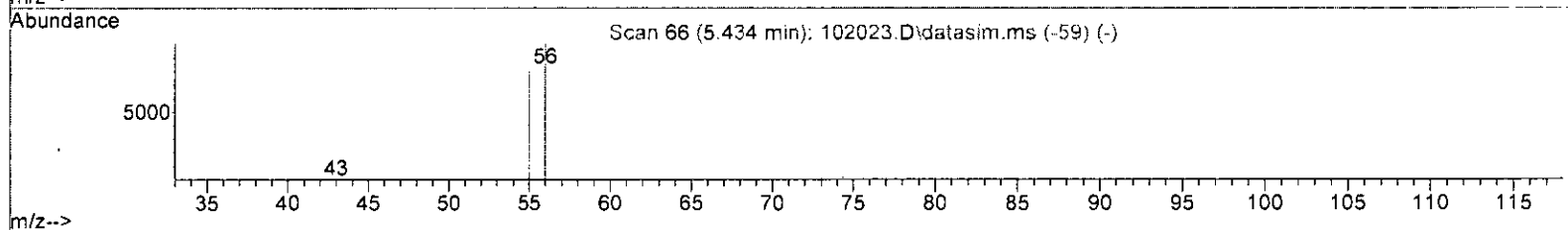
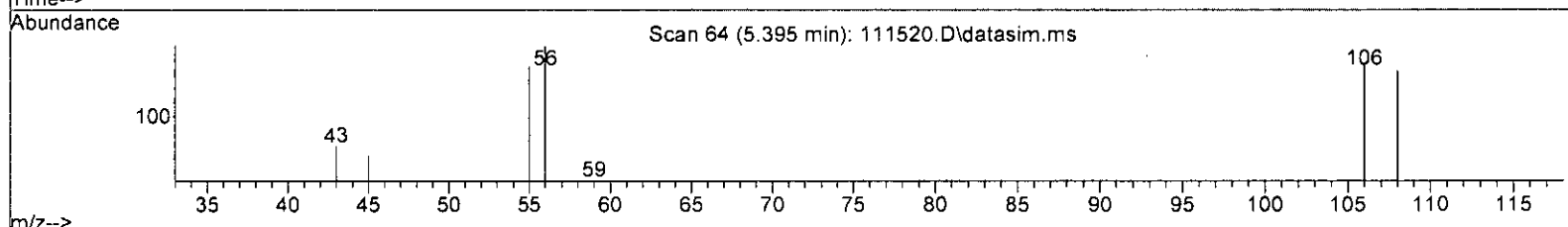
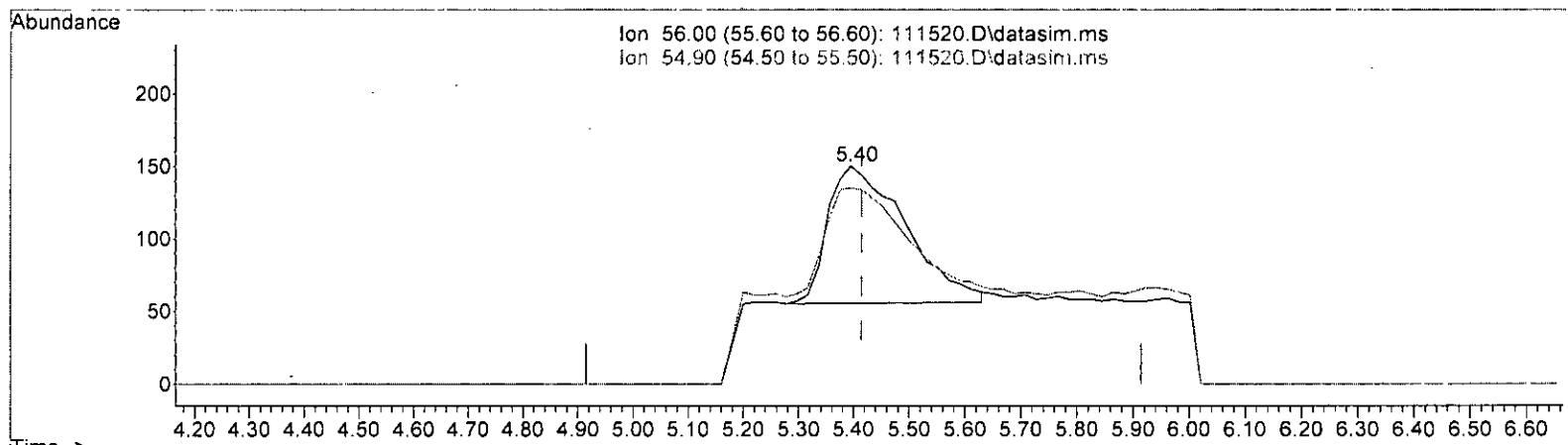
(13) Acrolein (TMP)			
5.395min	(-0.020)	0.324	ppbv
response	1496		
Ion	Exp%	Act%	
56.00	100.00	100.00	
54.90	81.00	93.65	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(13) Acrolein (TMP)

5.395min (-0.020) 0.201 ppbv m

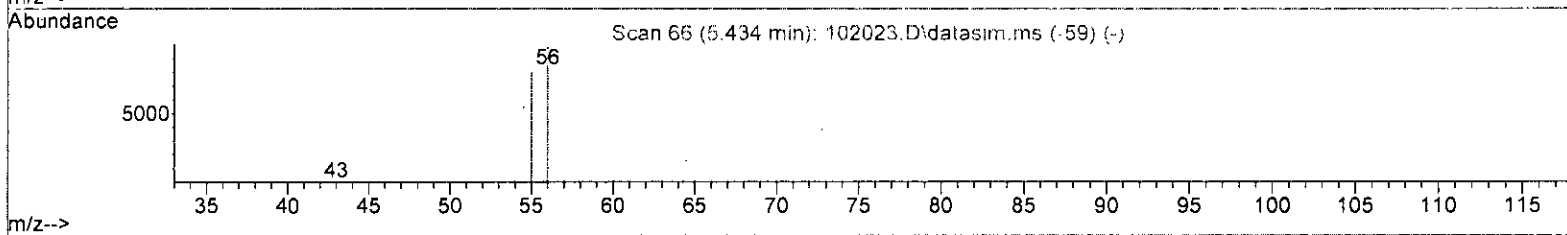
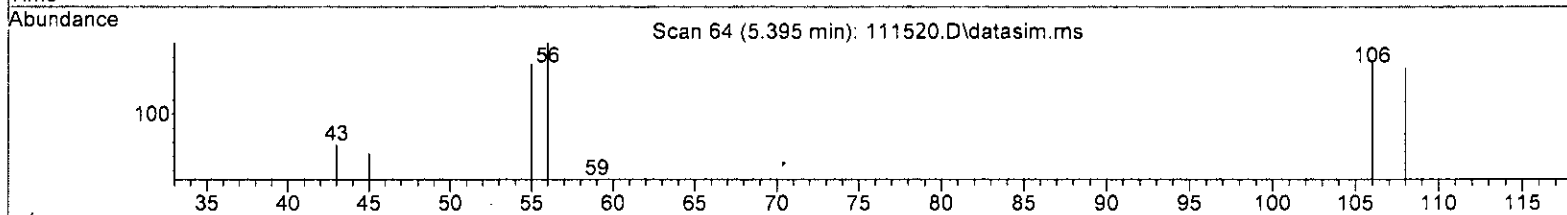
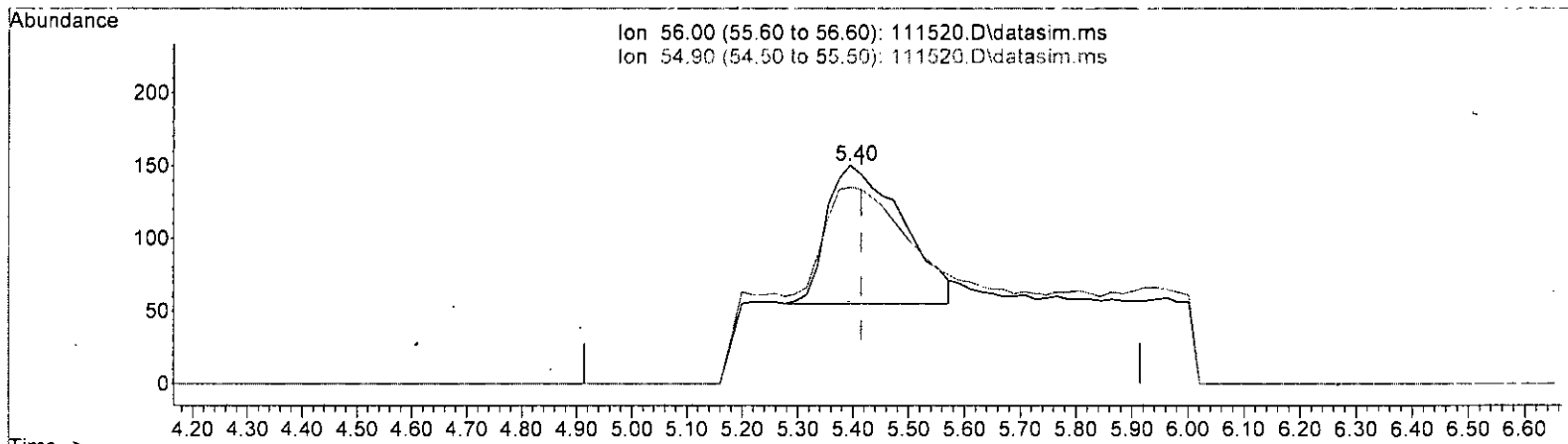
response	926	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	151.30#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(13) Acrolein (TMP)

5.395min (-0.020) 0.195 ppbv m

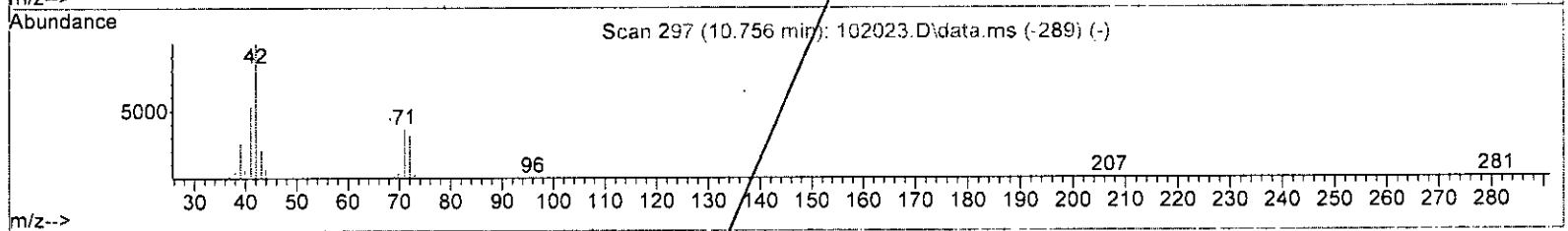
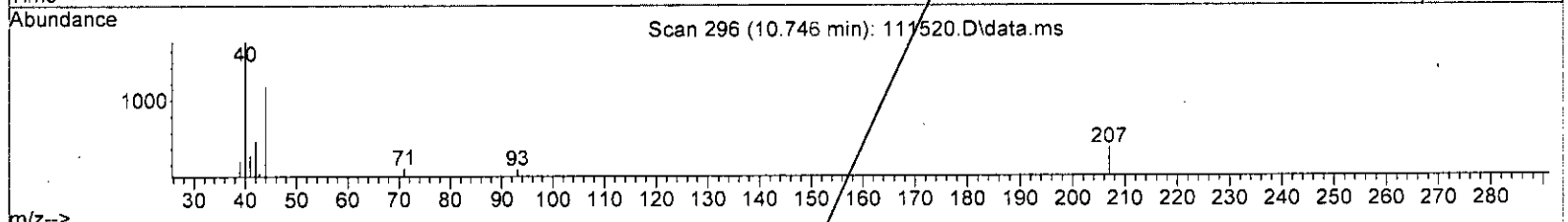
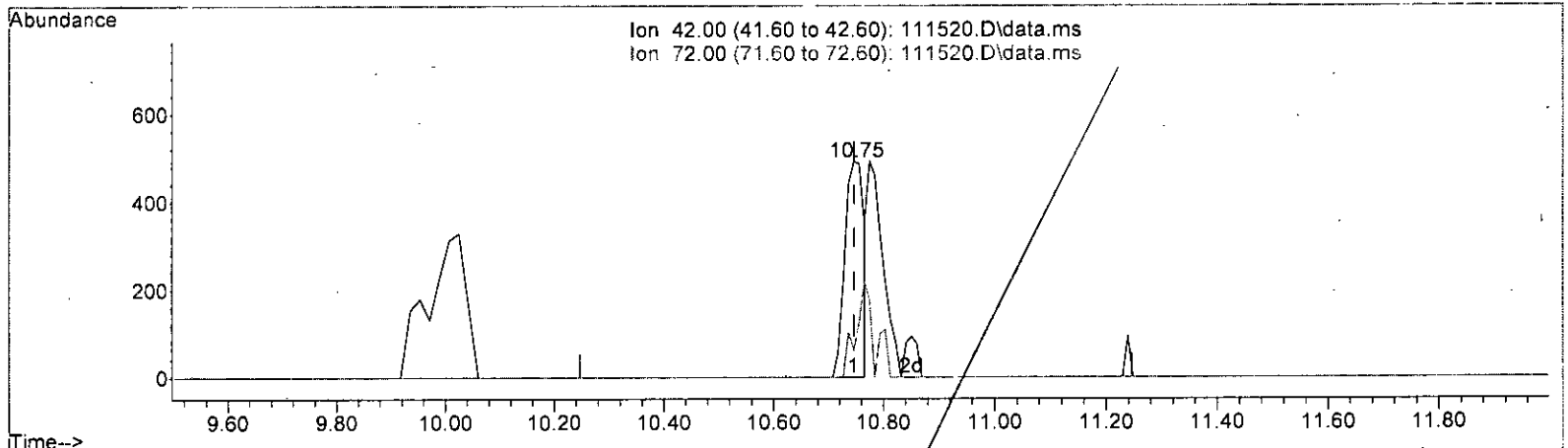
response	899
Ion	Exp% Act%
56.00	100.00 100.00
54.90	81.00 155.84#
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(32) Tetrahydrofuran (TMP)

10.746min (-0.001) 0.102 ppbv

response 1164

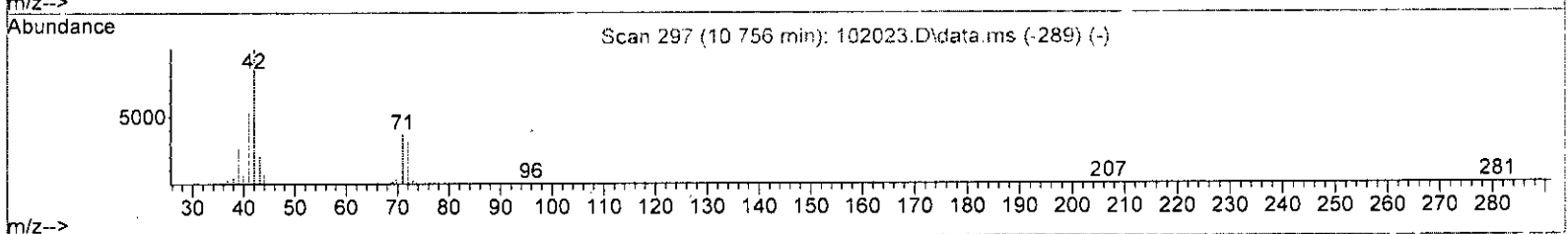
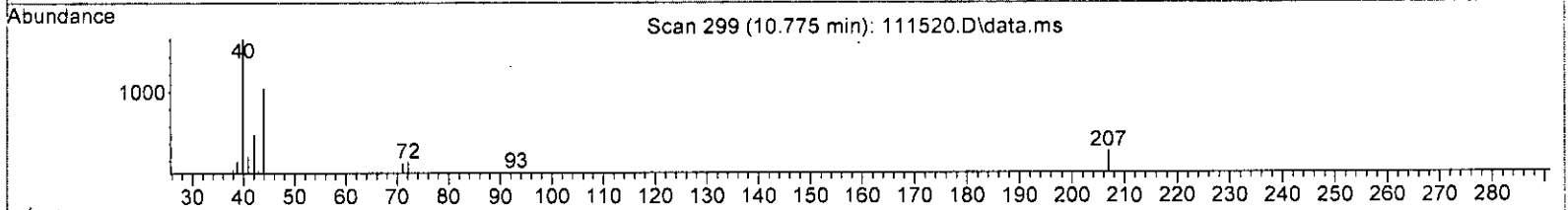
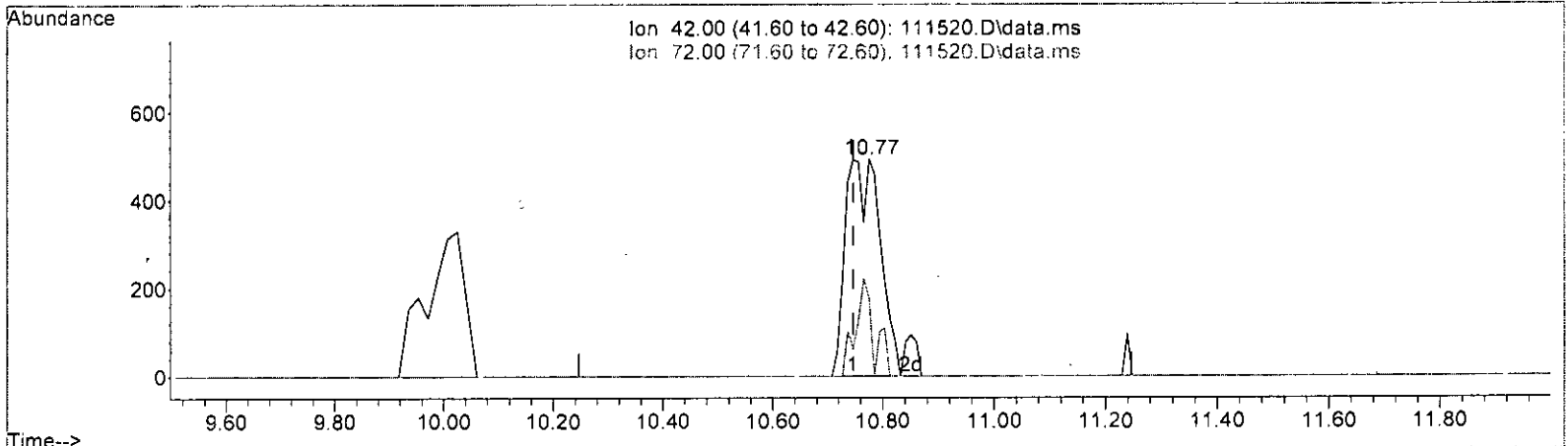
Ion	Exp%	Act%
42.00	100.00	100.00
72.00	33.70	33.51
0.00	0.00	0.00
0.00	0.00	0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(32) Tetrahydrofuran (TMP)

10.775min (+ 0.028) 0.198 ppbv m

response 2272

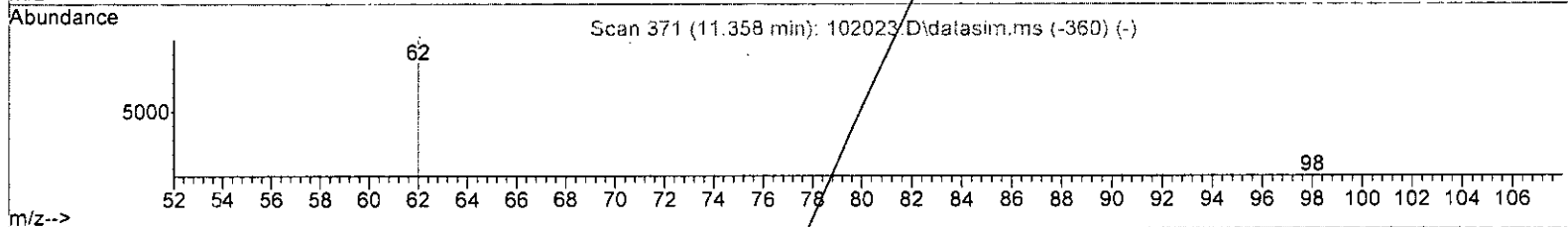
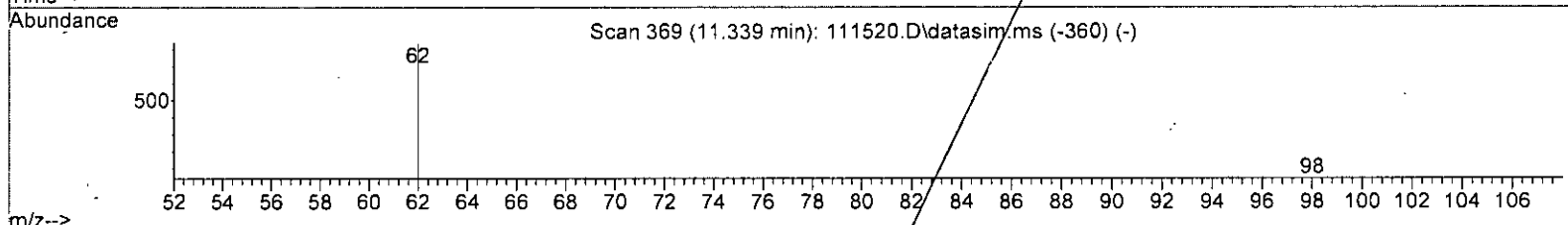
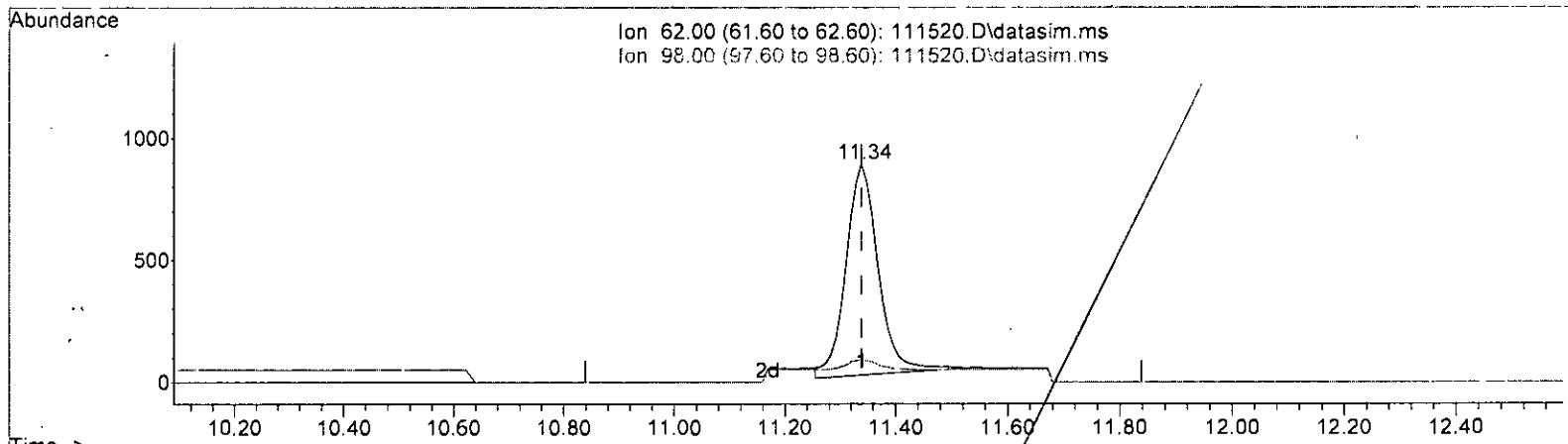
Ion	Exp%	Act%
42.00	100.00	100.00
72.00	33.70	17.17
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.339min (+ 0.000) 0.211 ppbv

response 3514

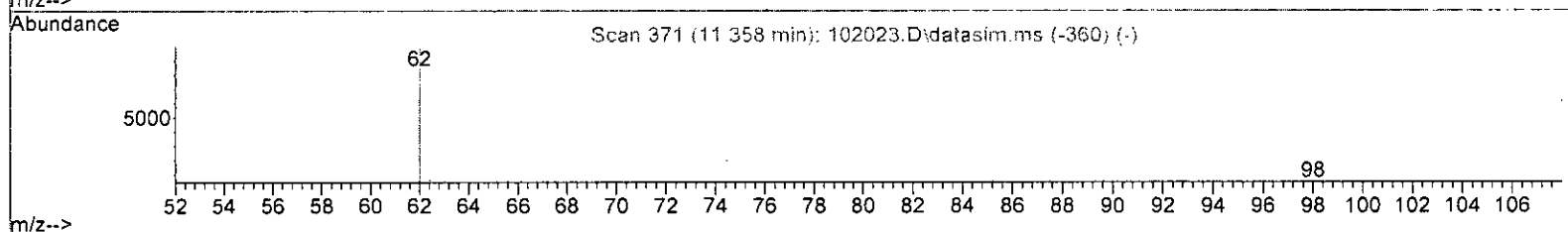
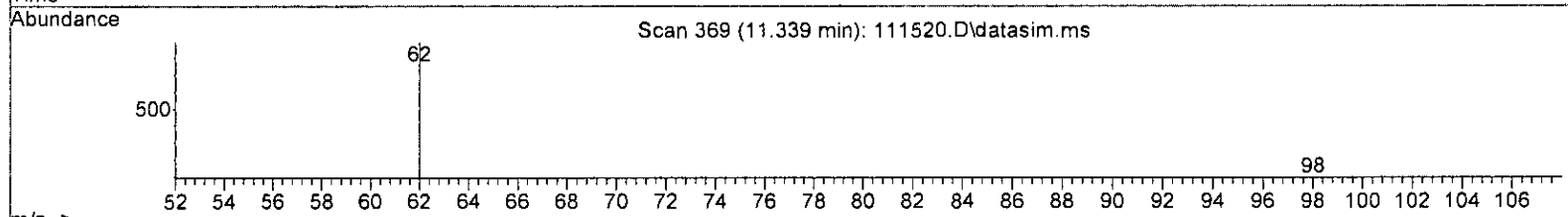
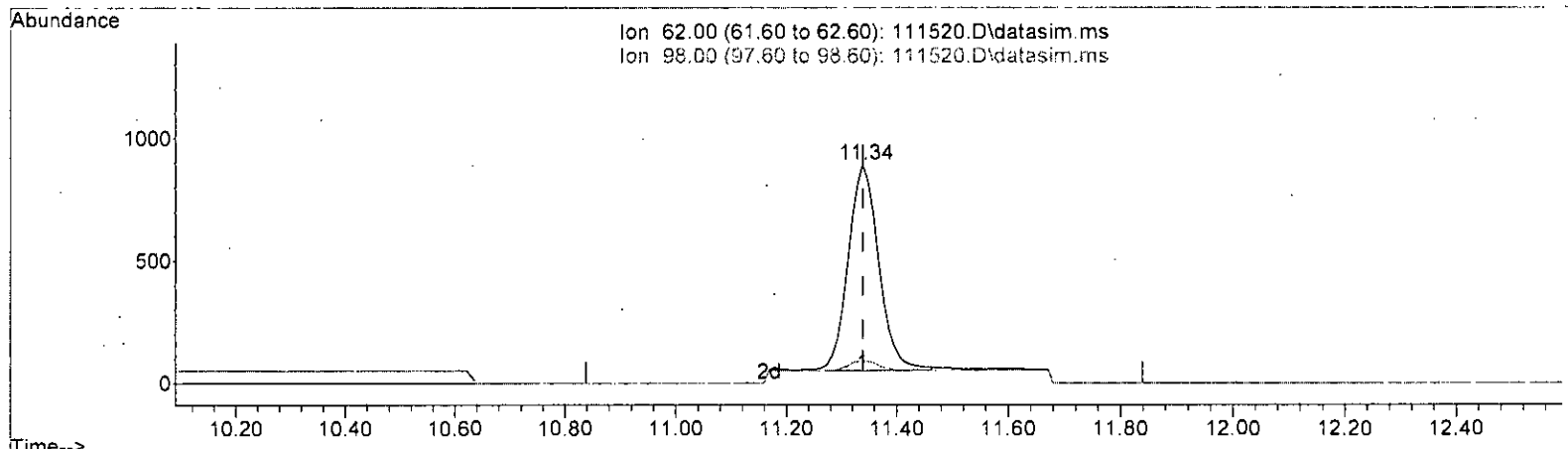
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	4.79
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111520.D\data.ms

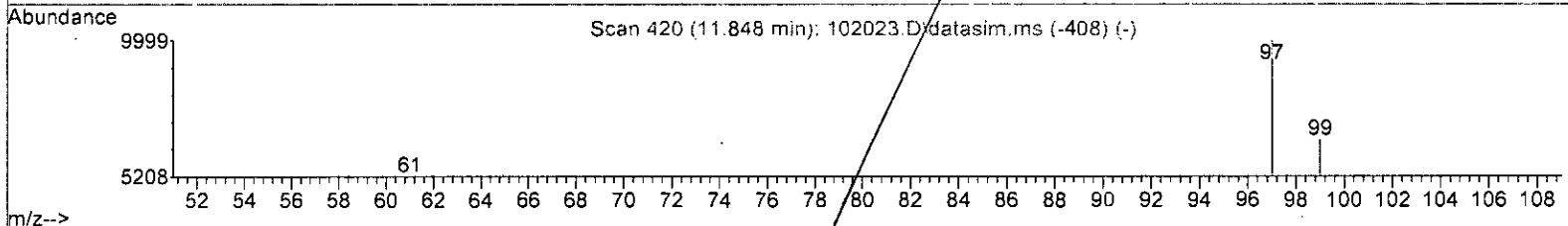
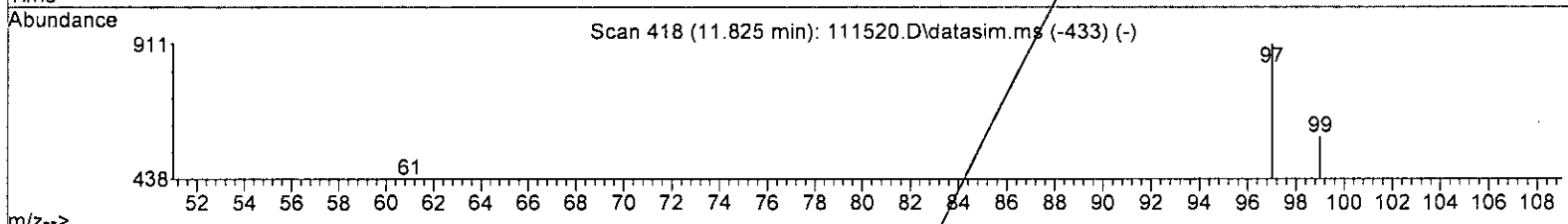
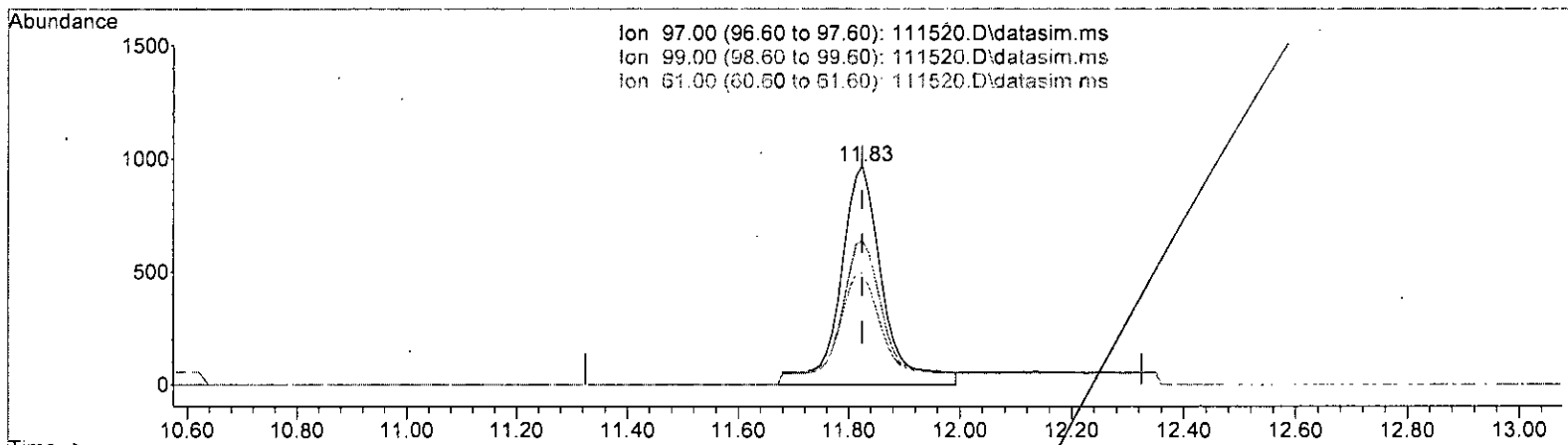
(34)	1,2-Dichloroethane (EDC) (TMP)	
11.339min	(+ 0.000)	0.193 ppbv m
response	3226	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	10.29
0.00	0.00	0.00
0.00	0.00	0.00

W/MS

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(35)	1,1,1-Trichloroethane (TMP)	
11.825min (+ 0.000)	0.240 ppbv	
response	5068	
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	65.74
61.00	49.30	51.08
0.00	0.00	0.00

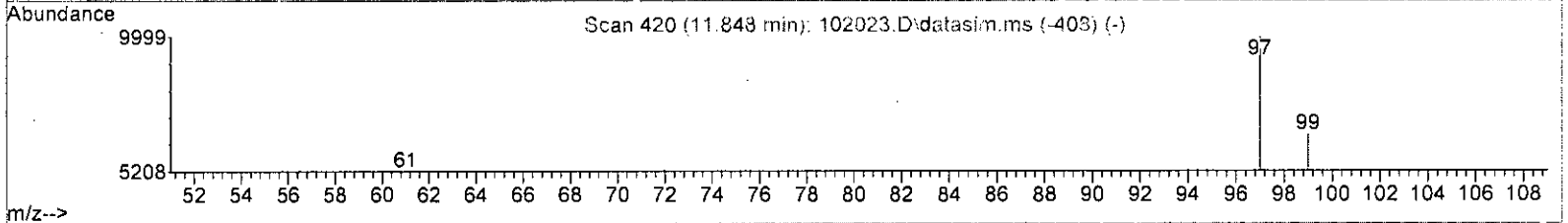
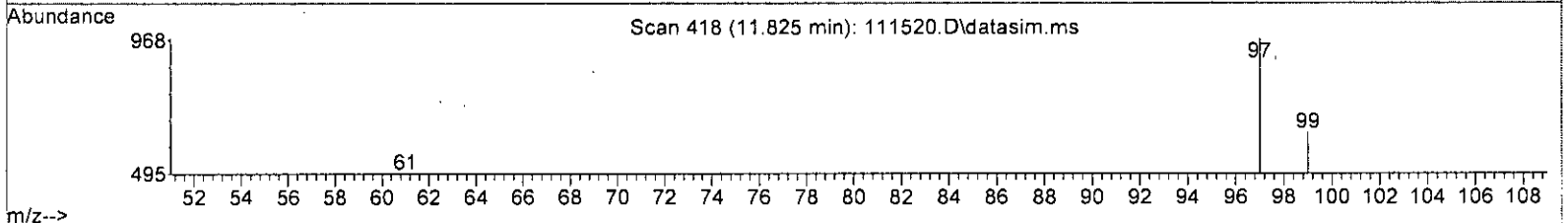
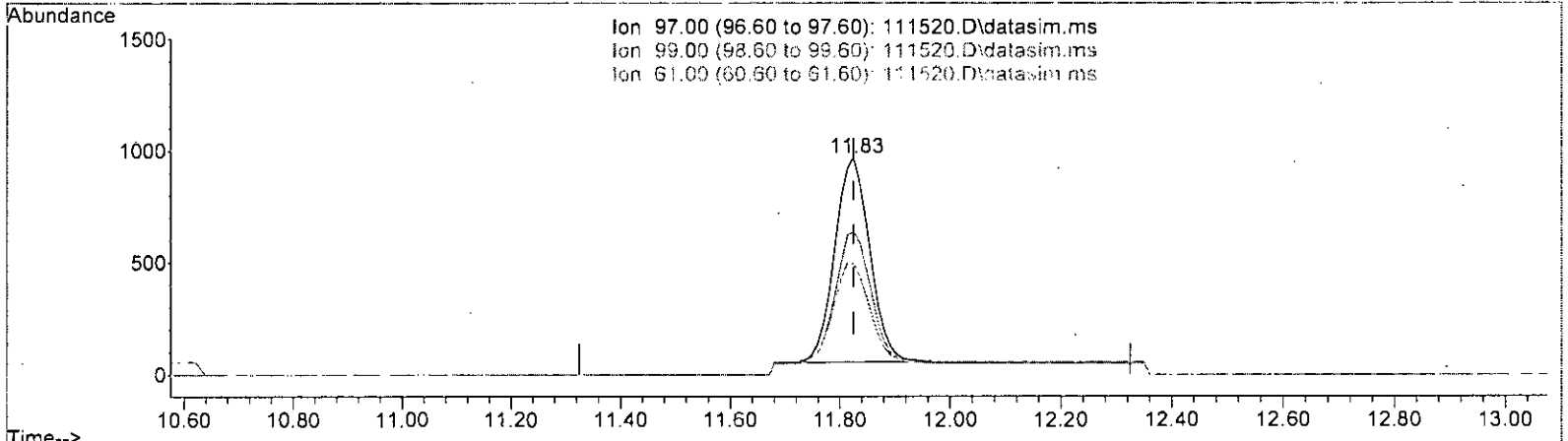
*Handwritten signature*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)  
 11.825min (+ 0.000) 0.189 ppbv m  
 response 4009

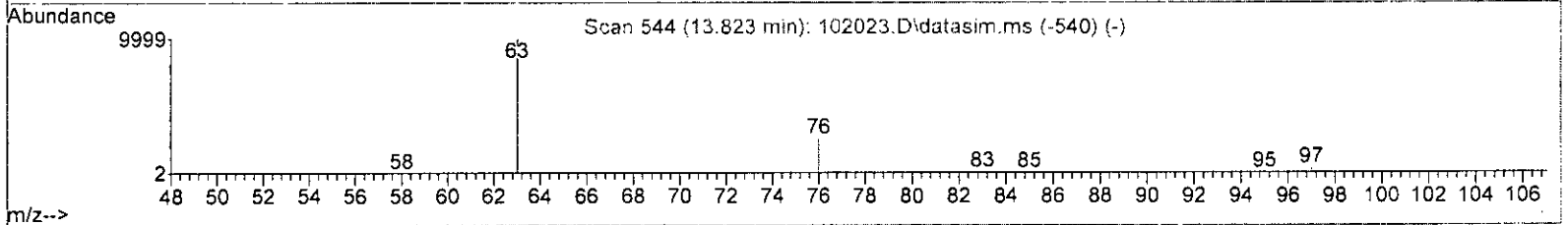
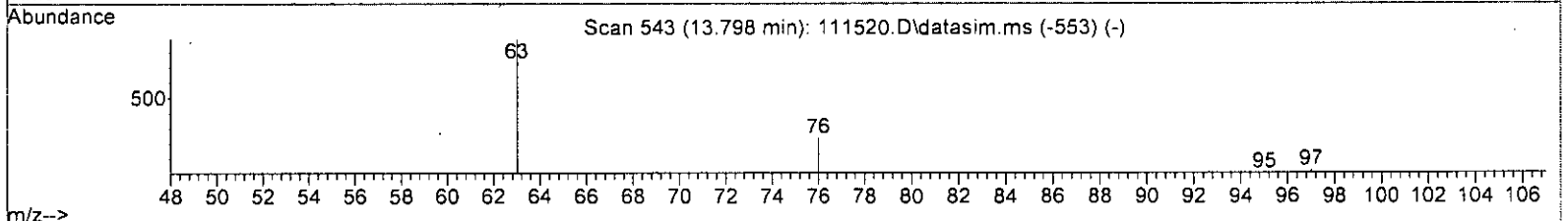
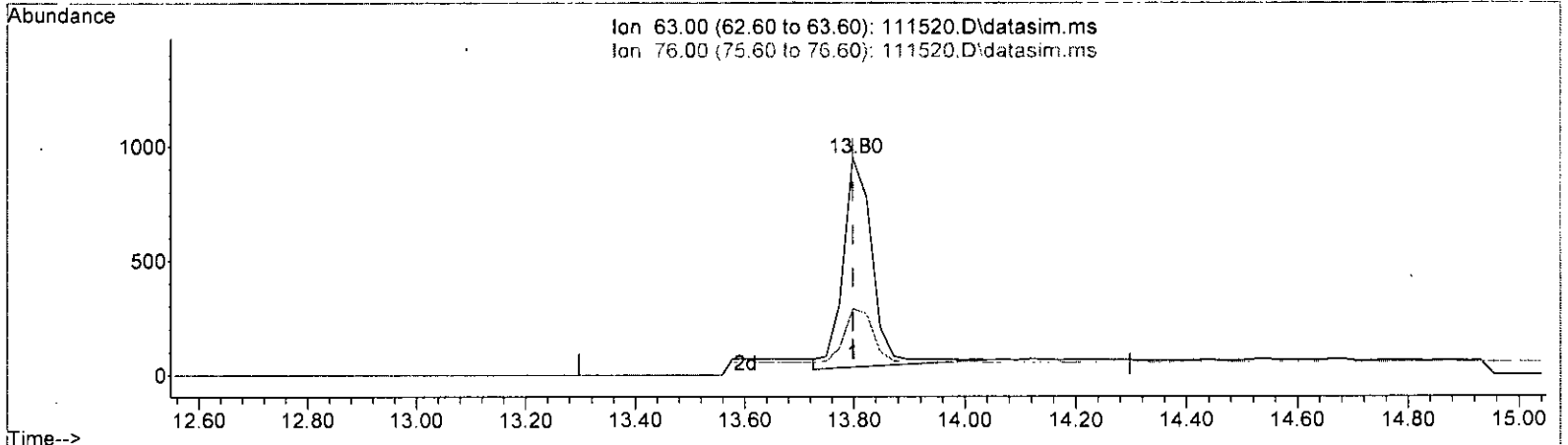
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	65.74
61.00	49.30	51.08
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

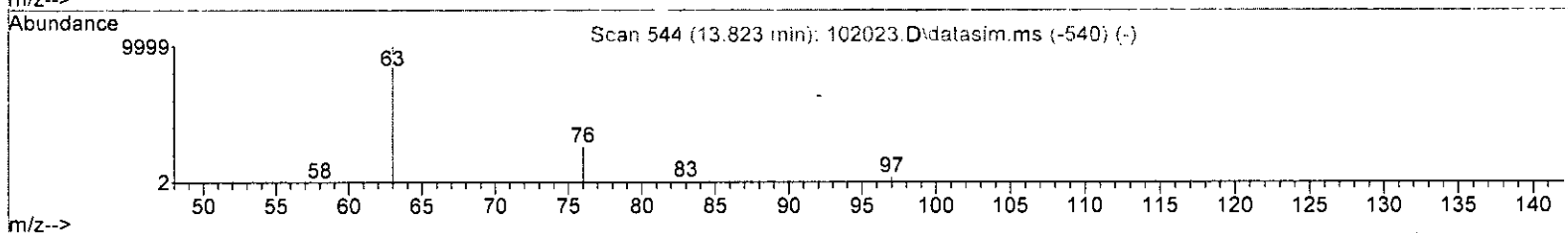
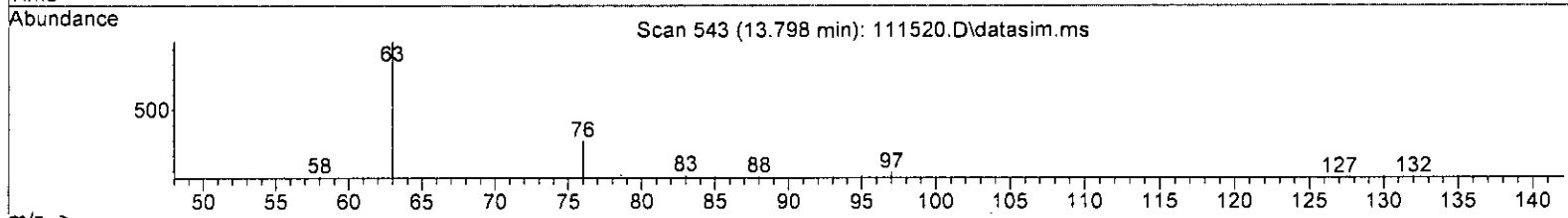
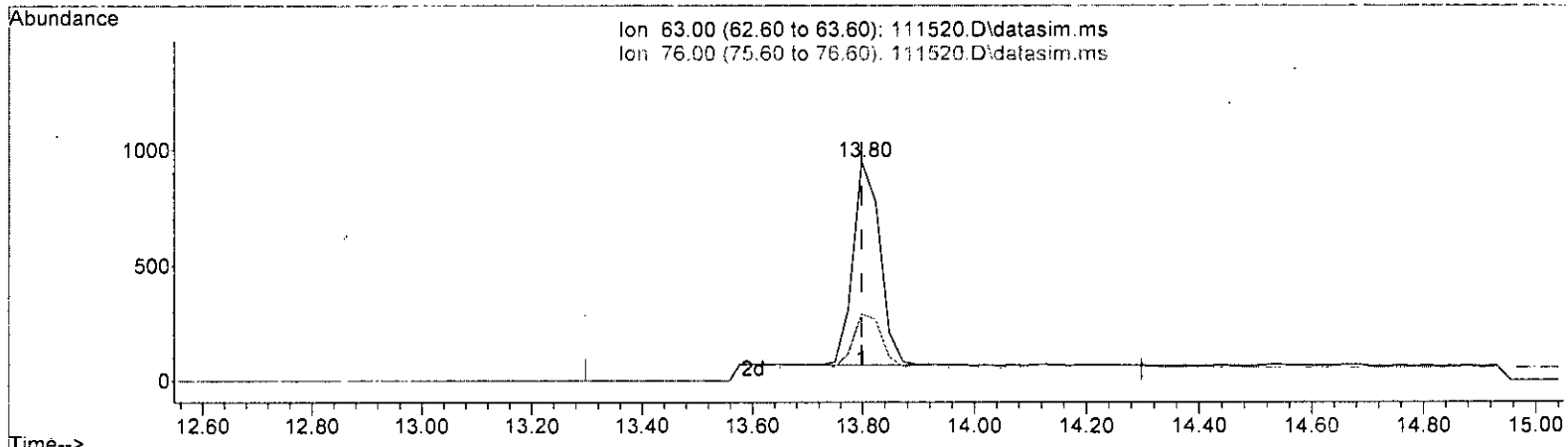
(40) 1,2-Dichloropropane (TMP)		
13.798min (+ 0.000)	0.222 ppbv	
response	3383	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	26.58
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(40) 1,2-Dichloropropane (TMP)  
 13.798min (+ 0.000) 0.194 ppbv m

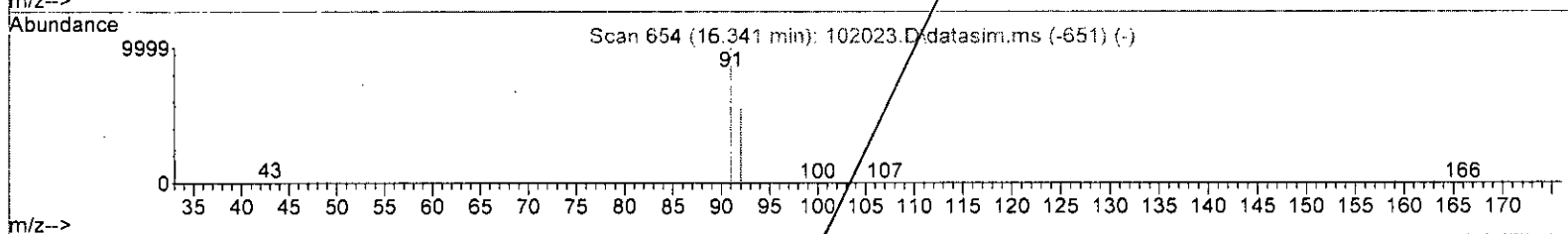
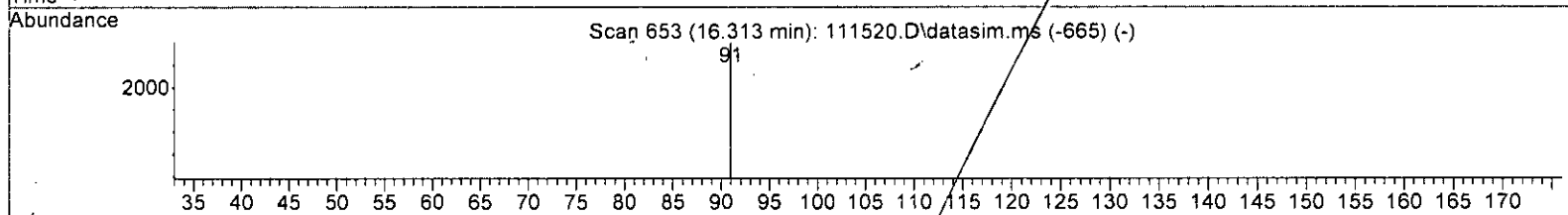
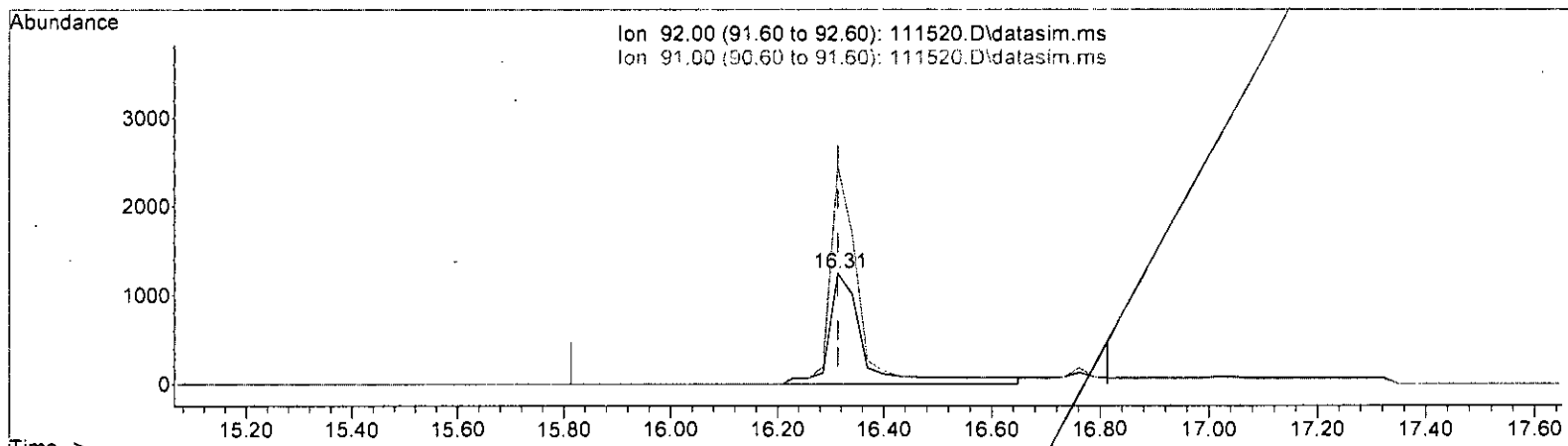
response	2962	
Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	30.56
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

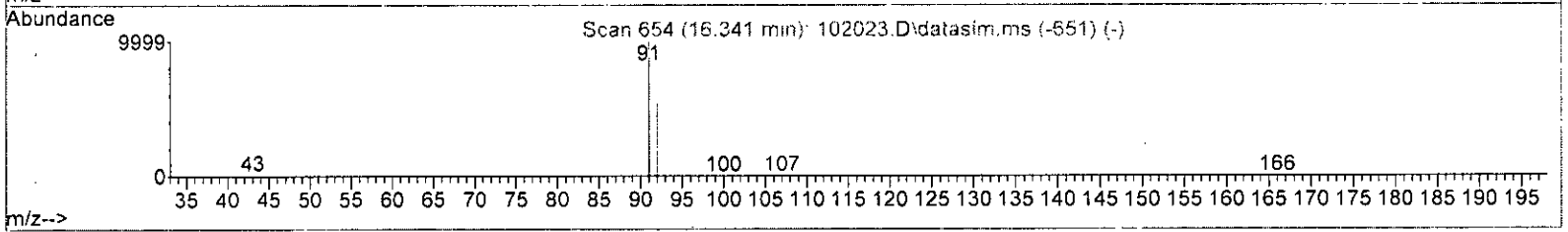
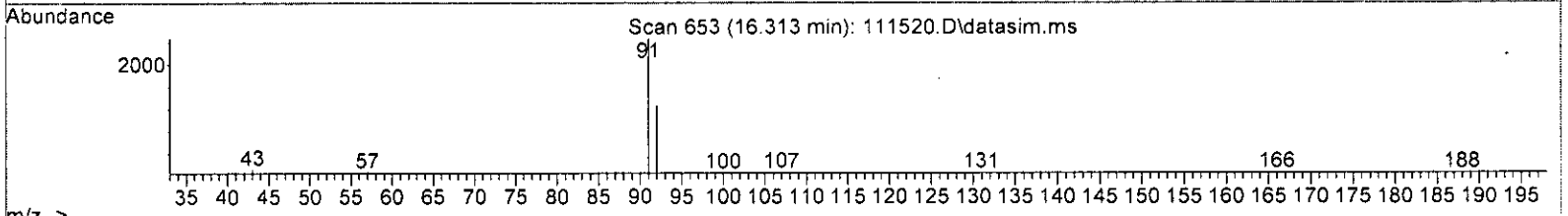
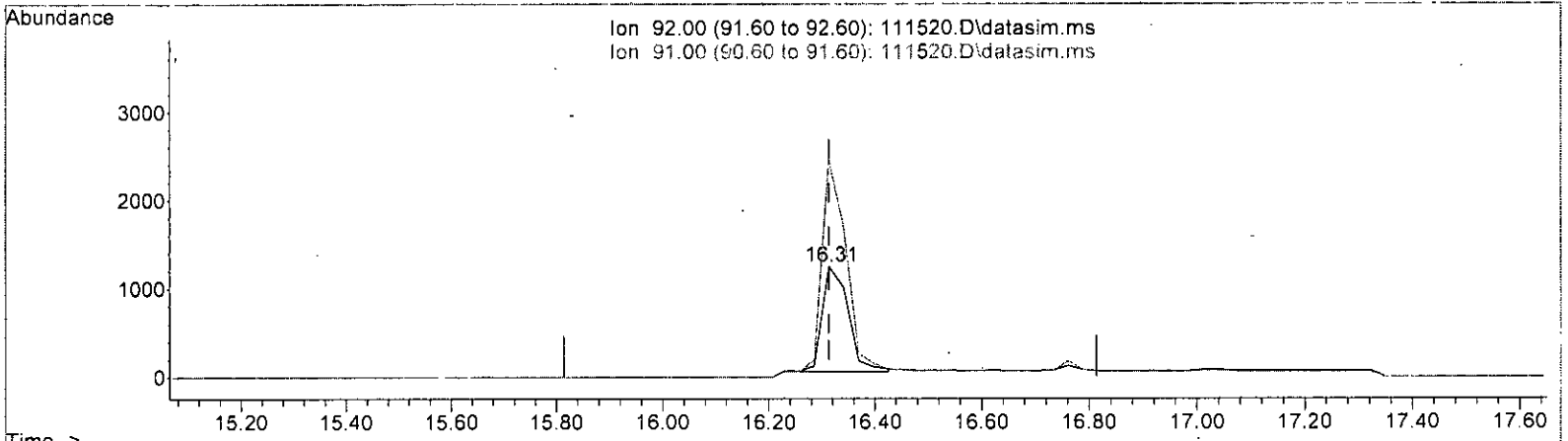
(50) Toluene (TMP)			
16.313min	(-0.001)	0.287	ppbv
response	5731		
Ion	Exp%	Act%	
92.00	100.00	100.00	
91.00	204.60	196.88	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(50) Toluene (TMP)  
 16.313min (-0.001) 0.204 ppbv m

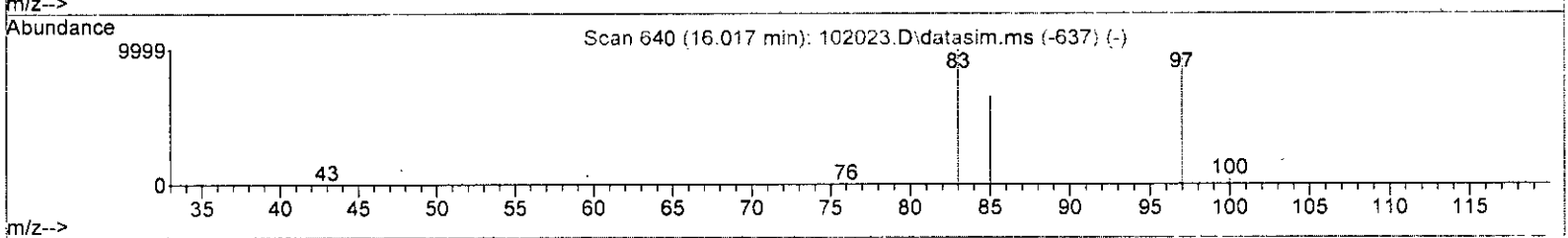
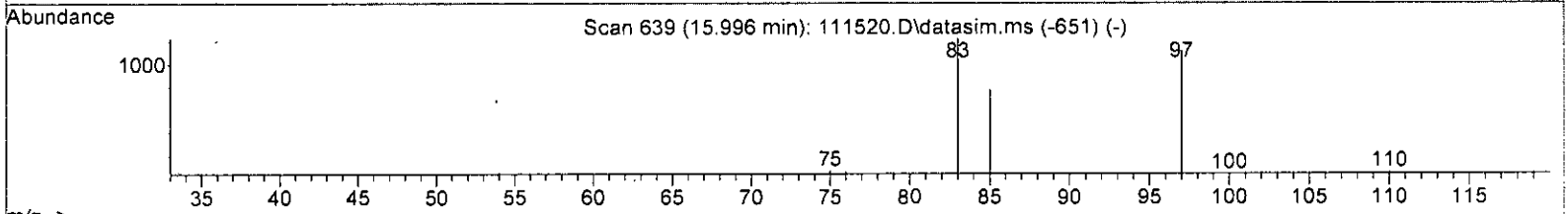
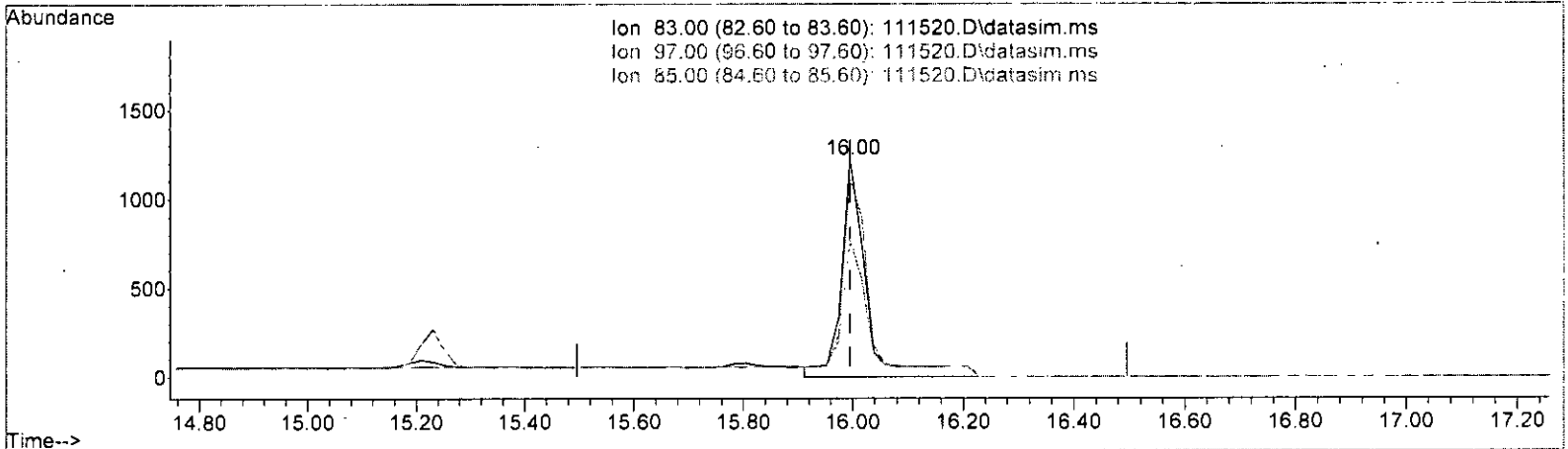
response	4061	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	196.88
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)

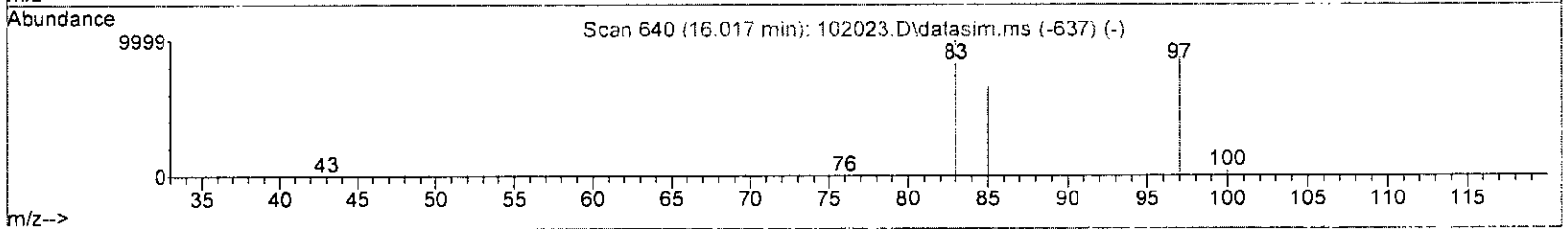
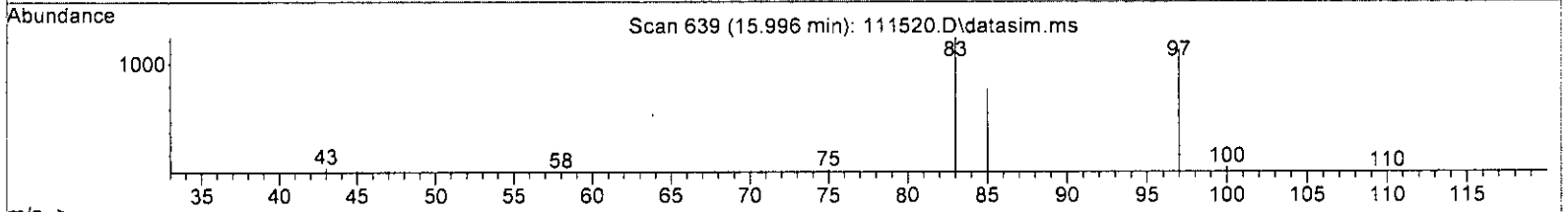
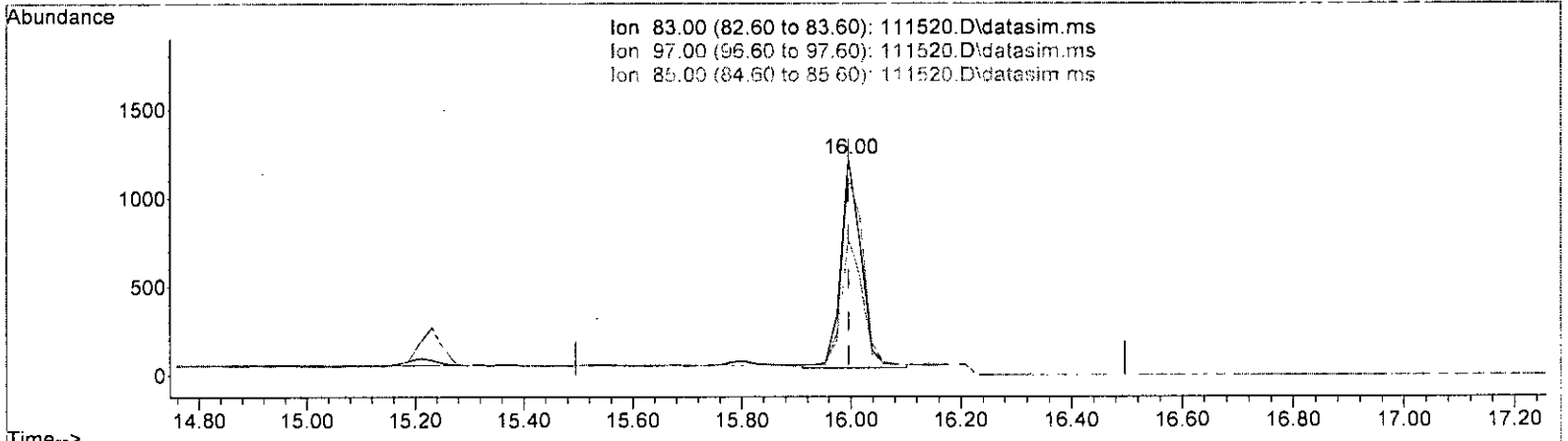
15.996min (-0.000) 0.261 ppbv

response	3946
Ion	Exp% Act%
83.00	100.00 100.00
97.00	81.80 90.92
85.00	60.50 63.18
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(51) 1,1,2-Trichloroethane (TMP)  
 15.996min (-0.000) 0.200 ppbv m

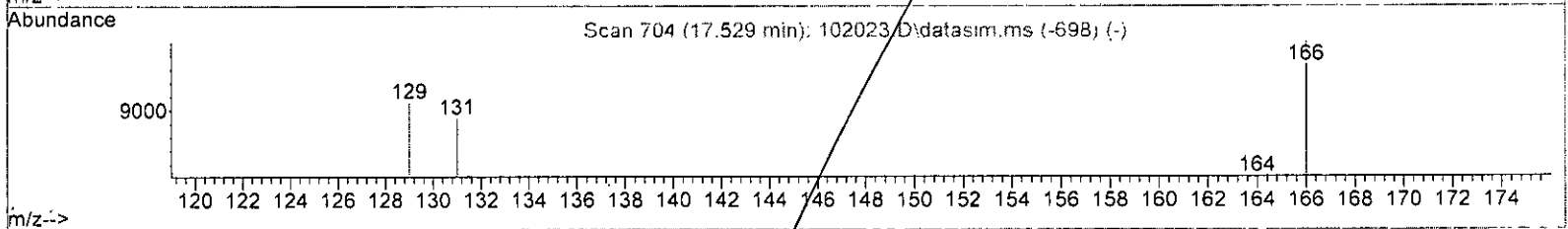
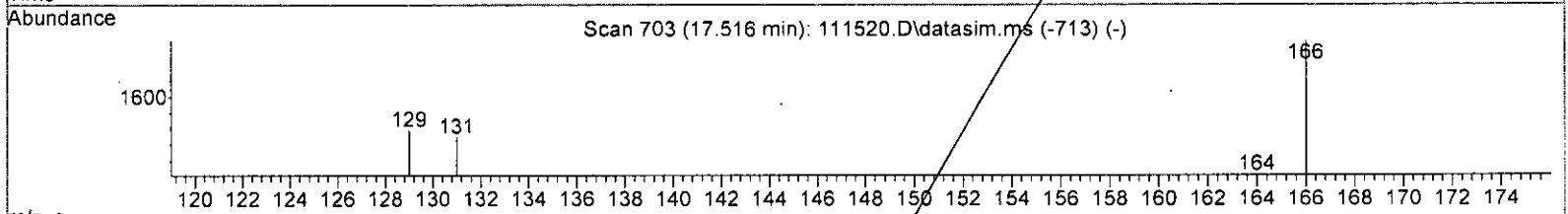
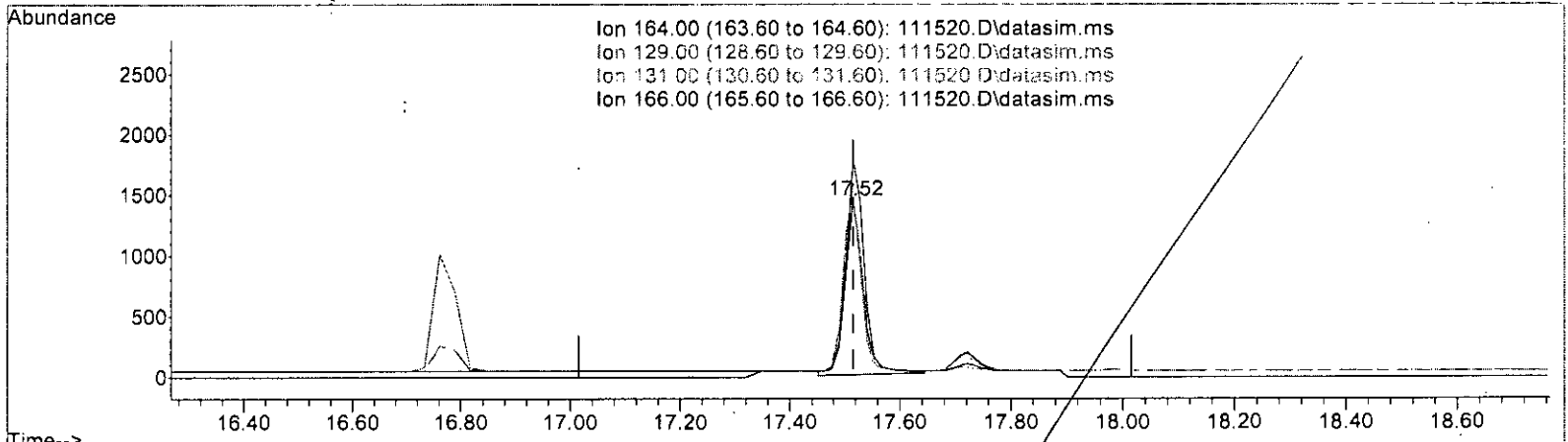
response	3041	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	90.92
85.00	60.50	63.18
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(53) Tetrachloroethene (TMP)

17.516min (-0.000) 0.238 ppbv

response 3292

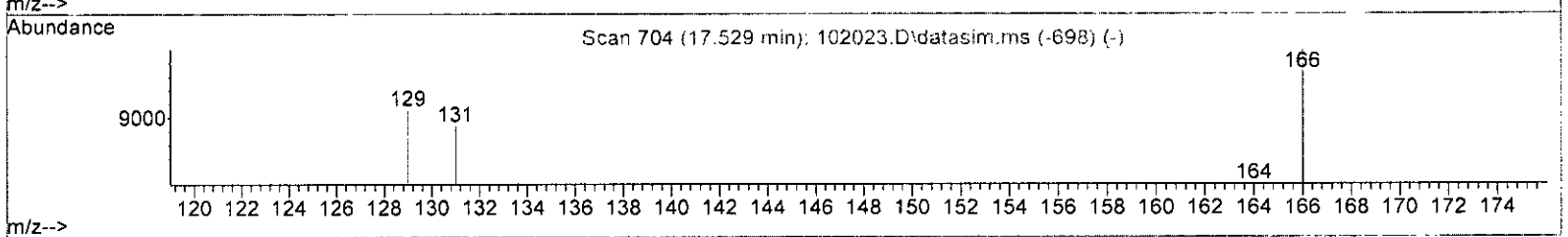
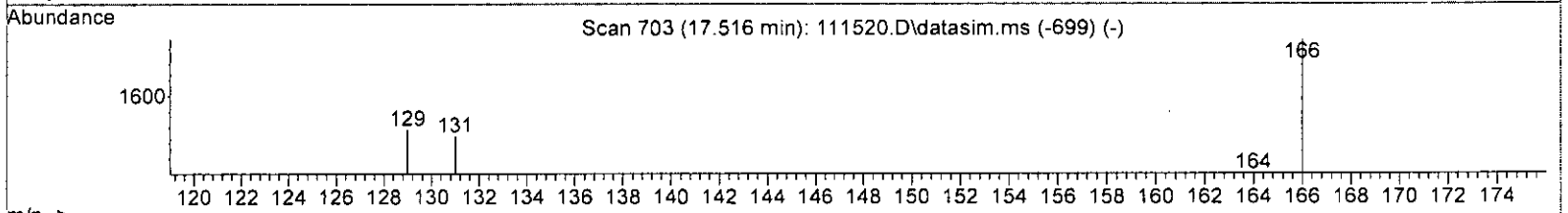
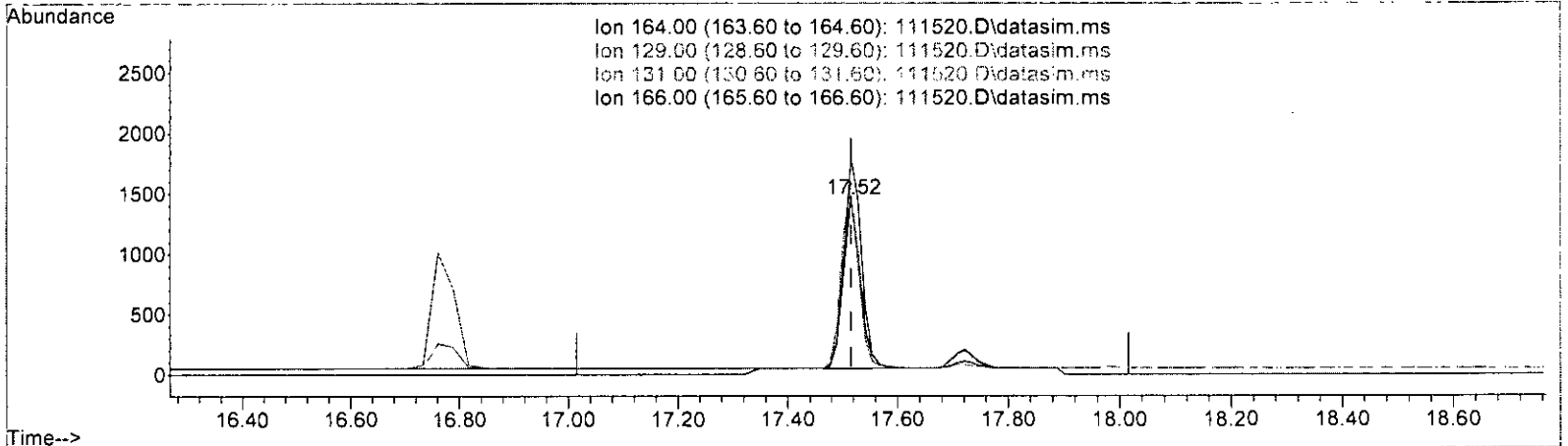
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	107.91
131.00	100.70	106.70
166.00	137.50	124.07



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(53) Tetrachloroethene (TMP)

17.516min (-0.000) 0.215 ppbv m

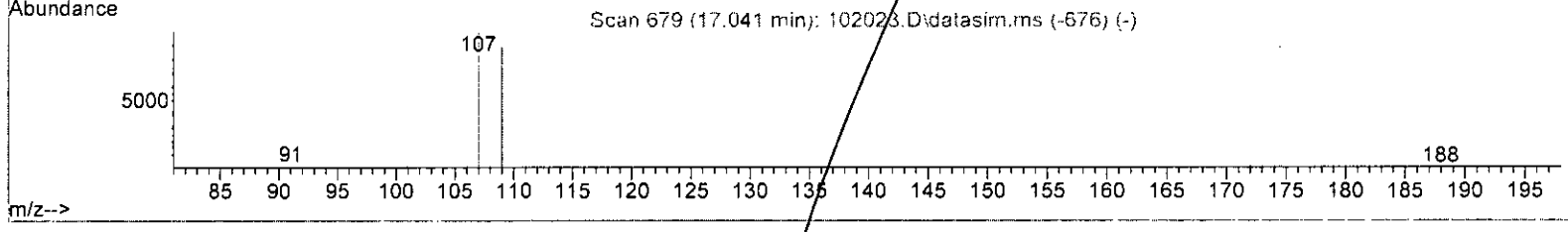
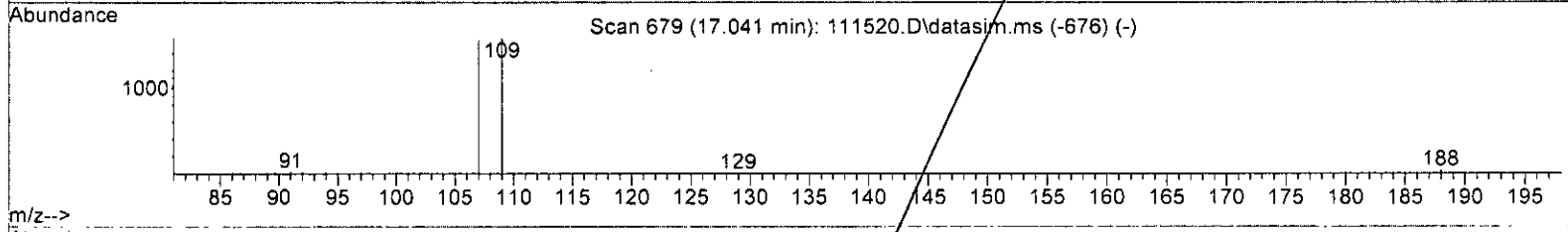
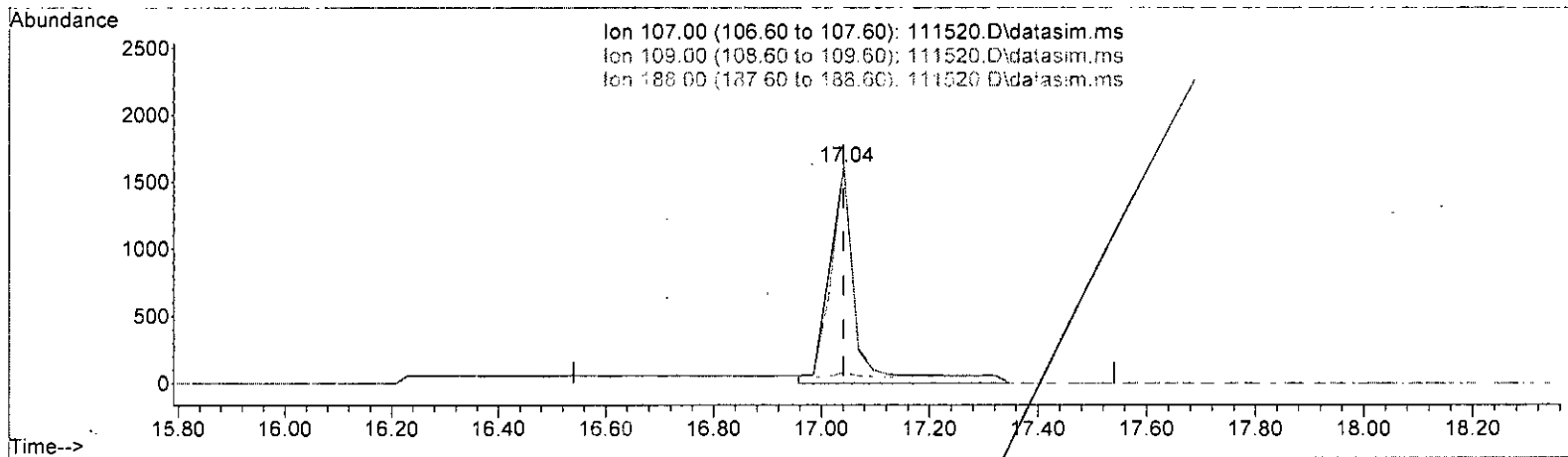
response	2972	
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	107.70
131.00	100.70	106.60
166.00	137.50	123.23

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.041min (+ 0.000) 0.241 ppbv

response 5380

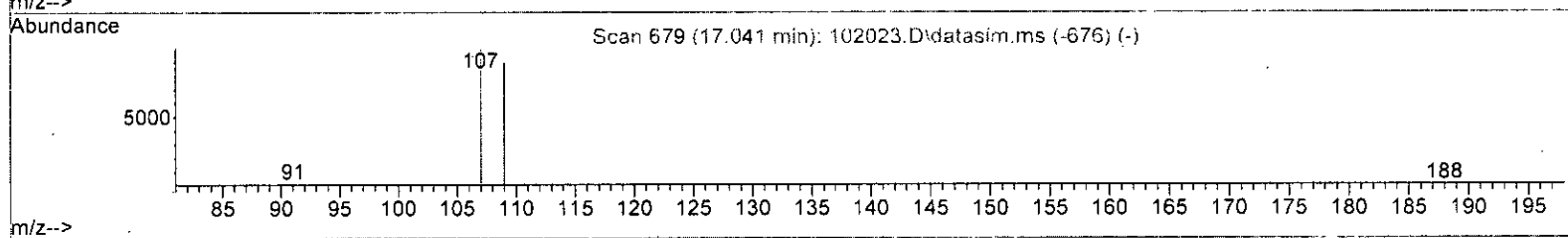
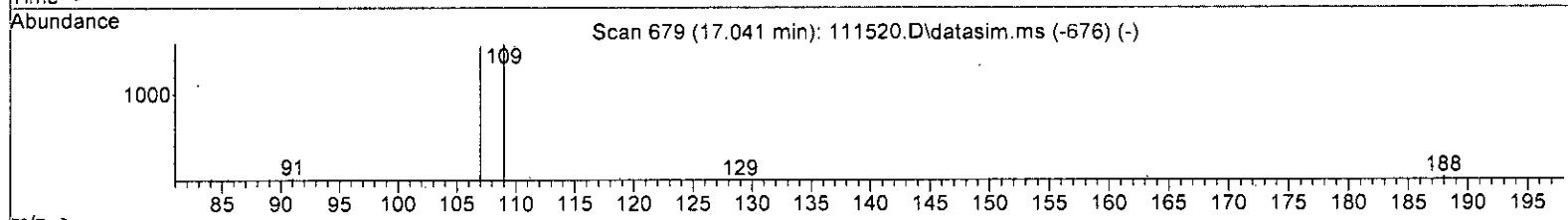
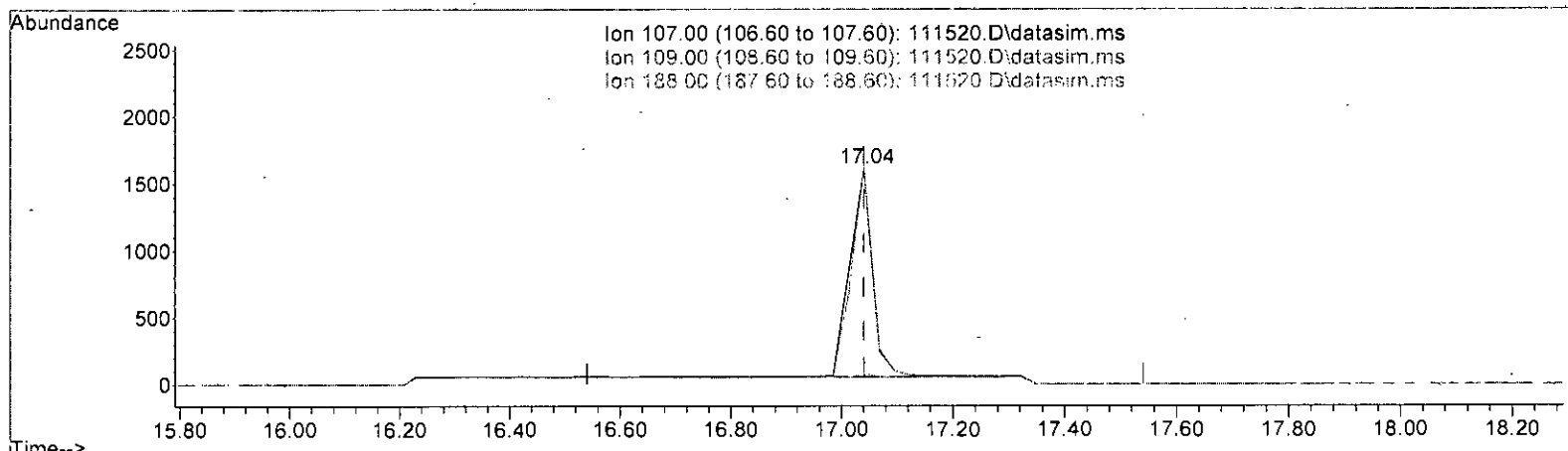
Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	101.18
188.00	2.70	5.02
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-1968  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111520.D\data.ms

(55) 1,2-Dibromoethane (EDB) (TMP)

17.041min (+ 0.000) 0.194 ppbv m

response 4368

Ion	Exp%	Act%
107.00	100.00	100.00
109.00	104.60	101.18
188.00	2.70	5.02
0.00	0.00	0.00

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	63282	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	281999	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	252889	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	162096	9.249	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	92.50%	
Target Compounds						
						Qvalue
2) Propene	3.41	41	2596	0.215	ppbv	95
3) Dichlorodifluoromethane	3.49	85	4964	0.190	ppbv	95
4] Chloromethane	3.73	50	2918m	0.245	ppbv	
5) F-114	3.84	85	5157	0.193	ppbv	94
6] Vinyl chloride	4.09	62	2303	0.197	ppbv	99
7] 1,3-Butadiene	4.29	54	1397	0.182	ppbv #	89
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	4.60	94	2258	0.193	ppbv	89
10] Chloroethane	4.84	64	825m	0.199	ppbv	
11] Vinyl bromide	5.30	106	1998m	0.196	ppbv	
12) Ethanol	0.00		0	N.D.	d	
13] Acrolein	5.40	56	899m	0.195	ppbv	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	5.80	101	6289	0.208	ppbv	79
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	0.00		0	N.D.	d	
18] 1,1-Dichloroethene	6.63	96	2035	0.195	ppbv	89
19] trans-1,2-Dichloroethene	8.07	96	2025	0.200	ppbv	86
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	6.94	41	2566	0.197	ppbv	91
23) CFC-113	7.15	101	4645	0.212	ppbv	100
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	8.43	73	4125	0.190	ppbv	85
26) Vinyl acetate	0.00		0	N.D.	d	
27] 1,1-Dichloroethane	8.36	63	4141	0.196	ppbv	100
28] cis-1,2-Dichloroethene	9.64	96	2075	0.194	ppbv	97
29) Hexane	0.00		0	N.D.	d	
30] Chloroform	10.08	83	4941	0.196	ppbv	95
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	10.77	42	2272m	0.198	ppbv	
33) 2-Butanone (MEK)	8.91	72	741	0.189	ppbv #	45
34] 1,2-Dichloroethane (EDC)	11.34	62	3226m	0.193	ppbv	
35] 1,1,1-Trichloroethane	11.83	97	4009m	0.189	ppbv	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37] Benzene	12.61	78	7651	0.173	ppbv	96
38) Cyclohexane	0.00		0	N.D.	d	
40] 1,2-Dichloropropane	13.80	63	2962m	0.194	ppbv	

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

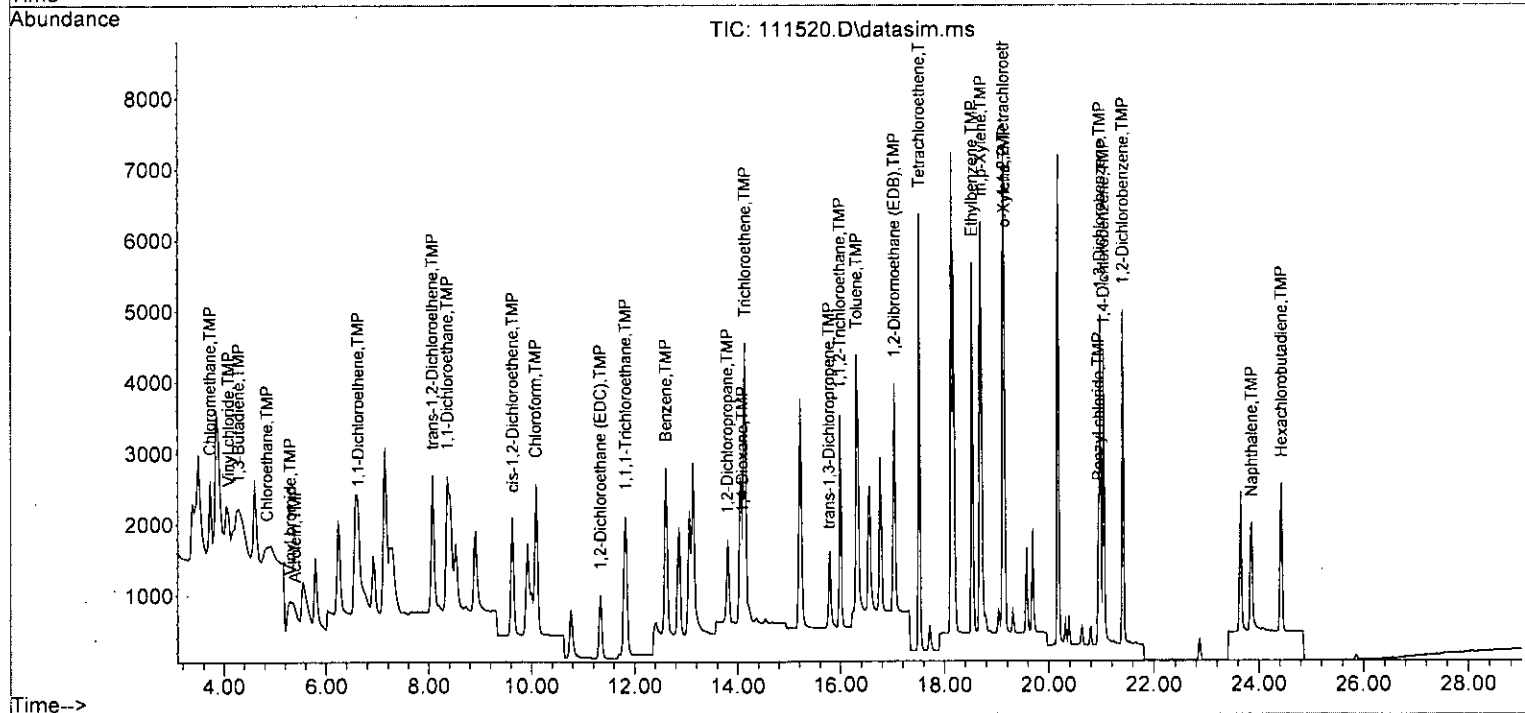
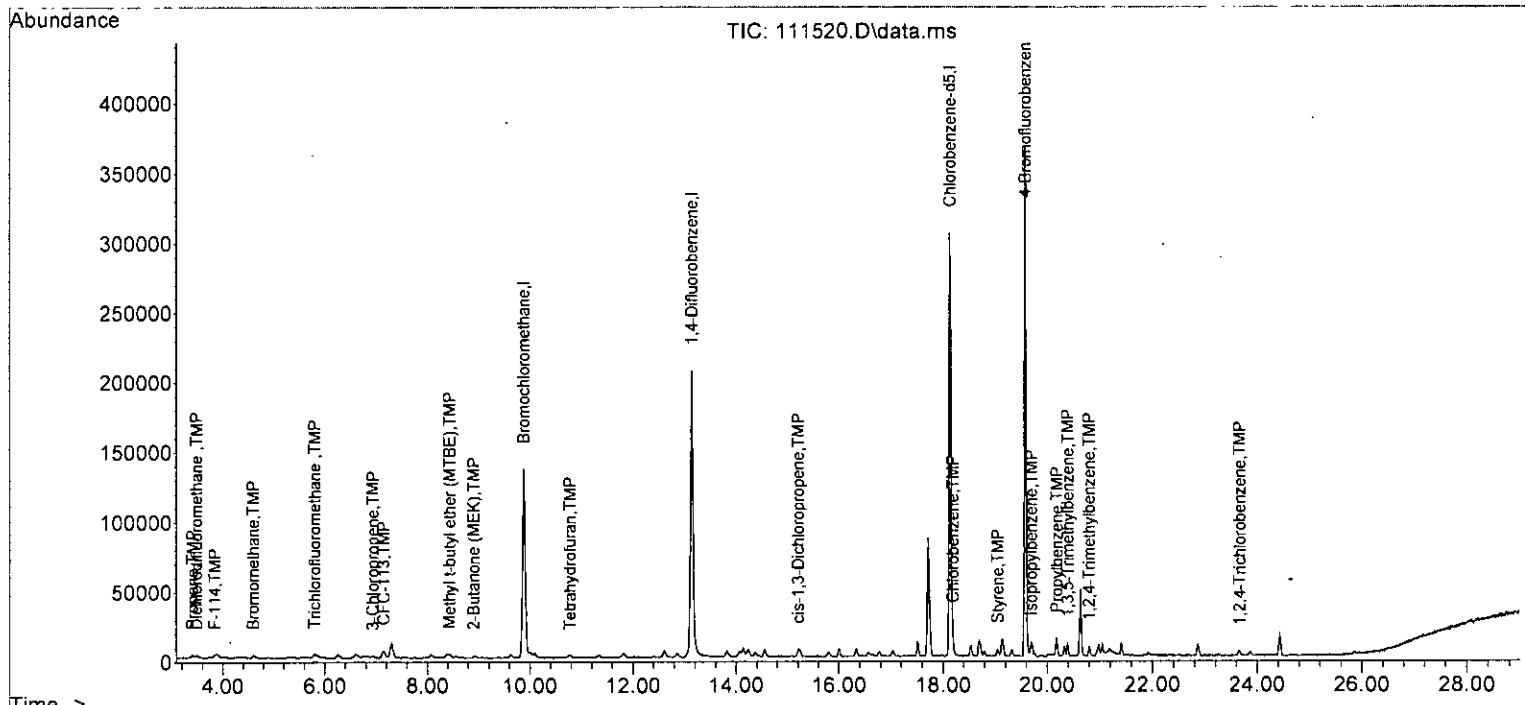
Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	1375	0.212	ppbv	86
42) 2,2,4-Trimethylpentane	0.00		0	N.D.	d	
43) Methyl methacrylate	0.00		0	N.D.	d	
44) Heptane	0.00		0	N.D.	d	
45) Bromodichloromethane	0.00		0	N.D.	d	
46] Trichloroethene	14.14	95	3461	0.207	ppbv	97
47) cis-1,3-Dichloropropene	15.20	75	3051	0.181	ppbv	89
48) 4-Methyl-2-pentanone	0.00		0	N.D.	d	
49] trans-1,3-Dichloropropene	15.78	75	2873	0.181	ppbv	83
50] Toluene	16.31	92	4061m	0.204	ppbv	
51] 1,1,2-Trichloroethane	16.00	83	3041m	0.200	ppbv	
52) 2-Hexanone	0.00		0	N.D.	d	
53] Tetrachloroethene	17.52	164	2972m	0.215	ppbv	
54) Dibromochloroethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	4368m	0.194	ppbv	
57) Chlorobenzene	18.19	112	5326	0.191	ppbv	87
58] Ethylbenzene	18.53	91	8569	0.181	ppbv	98
59] 1,1,2,2-Tetrachloroethane	19.13	83	6631	0.190	ppbv	94
60) Nonane	0.00		0	N.D.	d	
61) Isopropylbenzene	19.70	105	8458	0.187	ppbv	97
62) 2-Chlorotoluene	0.00		0	N.D.	d	
63) Propylbenzene	20.19	91	13612	0.164	ppbv	99
64) 4-Ethyltoluene	0.00		0	N.D.	d	
65] m,p-Xylene	18.70	106	5535	0.346	ppbv	98
66] o-Xylene	19.15	106	2708	0.174	ppbv	98
67) Styrene	19.05	104	3464	0.167	ppbv	90
68) Bromoform	0.00		0	N.D.	d	
70] Benzyl chloride	20.95	91	3017	0.106	ppbv	98
71) 1,3,5-Trimethylbenzene	20.39	105	5815	0.159	ppbv	93
72) 1,2,4-Trimethylbenzene	20.80	105	4256	0.190	ppbv	80
73] 1,3-Dichlorobenzene	20.98	146	4603	0.180	ppbv	98
74] 1,4-Dichlorobenzene	21.05	146	4070	0.170	ppbv	98
75] 1,2-Dichlorobenzene	21.41	146	4673	0.180	ppbv	96
76) 1,2,4-Trichlorobenzene	23.66	180	2298	0.159	ppbv	83
77] Naphthalene	23.86	128	4383	0.239	ppbv	99
78] Hexachlorobutadiene	24.44	225	5046	0.191	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	0.200	0.215	-7.5	100	0.00
3 TMP Dichlorodifluoromethane	0.200	0.190	5.0	100	0.00
4 TMP Chloromethane	0.200	0.245	-22.5	99	0.00
5 TMP F-114	0.200	0.193	3.5	100	-0.04
6 TMP Vinyl chloride	0.200	0.197	1.5	101	0.00
7 TMP 1,3-Butadiene	0.200	0.182	9.0	100	0.00
8 TMP Butane	-1.000	0.000	0.0	0	-4.32#
9 TMP Bromomethane	0.200	0.193	3.5	100	0.00
10 TMP Chloroethane	0.200	0.199	0.5	101	0.00
11 TMP Vinyl bromide	0.200	0.196	2.0	104	-0.02
12 TMP Ethanol	-1.000	0.000	0.0	0	-4.96#
13 TMP Acrolein	0.200	0.195	2.5	100	-0.02
14 TMP Pentane	-1.000	0.000	0.0	0	-6.25#
15 TMP Trichlorofluoromethane	0.200	0.208	-4.0	100	-0.04
16 TMP Acetone	-1.000	0.000	0.0	0	-5.57#
17 TMP 2-Propanol	-1.000	0.000	0.0	0	-5.78#
18 TMP 1,1-Dichloroethene	0.200	0.195	2.5	98	0.00
19 TMP trans-1,2-Dichloroethene	0.200	0.200	0.0	100	-0.03
20 TMP Methylene chloride	-1.000	0.000	0.0	0	-6.80#
21 TMP t-Butyl alcohol (TBA)	-1.000	0.000	0.0	0	-6.57#
22 TMP 3-Chloropropene	0.200	0.197	1.5	100	0.00
23 TMP CFC-113	0.200	0.212	-6.0	100	0.00
24 TMP Carbon disulfide	-1.000	0.000	0.0	0	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	0.200	0.190	5.0	100	0.00
26 TMP Vinyl acetate	-1.000	0.000	0.0	0	-8.54#
27 TMP 1,1-Dichloroethane	0.200	0.196	2.0	100	0.00
28 TMP cis-1,2-Dichloroethene	0.200	0.194	3.0	100	0.00
29 TMP Hexane	-1.000	0.000	0.0	0	-10.01#
30 TMP Chloroform	0.200	0.196	2.0	100	-0.02
31 TMP Ethyl acetate	-1.000	0.000	0.0	0	-9.92#
32 TMP Tetrahydrofuran	0.200	0.198	1.0	100	0.03
33 TMP 2-Butanone (MEK)	0.200	0.189	5.5	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	0.200	0.193	3.5	97	0.00
35 TMP 1,1,1-Trichloroethane	0.200	0.189	5.5	97	0.00
36 TMP Carbon tetrachloride	0.200	0.000	100.0#	0	-12.86#
37 TMP Benzene	0.200	0.173	13.5	105	0.00
38 TMP Cyclohexane	-1.000	0.000	0.0	0	-13.07#
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.200	0.194	3.0	100	0.00
41 TMP 1,4-Dioxane	0.200	0.212	-6.0	100	0.00
42 TMP 2,2,4-Trimethylpentane	-1.000	0.000	0.0	0	-14.24#
43 TMP Methyl methacrylate	-1.000	0.000	0.0	0	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	-1.000	0.000	0.0	0	-14.56#
45 TMP Bromodichloromethane	0.200	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	0.200	0.207	-3.5	100	0.00
47 TMP cis-1,3-Dichloropropene	0.200	0.181	9.5	100	0.00
48 TMP 4-Methyl-2-pentanone	-1.000	0.000	0.0	0	-15.23#
49 TMP trans-1,3-Dichloropropene	0.200	0.181	9.5	100	0.00
50 TMP Toluene	0.200	0.204	-2.0	99	0.00
51 TMP 1,1,2-Trichloroethane	0.200	0.200	0.0	106	0.00
52 TMP 2-Hexanone	-1.000	0.000	0.0	0	-16.56#
53 TMP Tetrachloroethene	0.200	0.215	-7.5	99	0.00
54 TMP Dibromochloromethane	0.200	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.200	0.194	3.0	99	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	0.200	0.191	4.5	100	0.00
58 TMP Ethylbenzene	0.200	0.181	9.5	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.200	0.190	5.0	100	0.00
60 TMP Nonane	-1.000	0.000	0.0	0	-19.30#
61 TMP Isopropylbenzene	0.200	0.187	6.5	100	0.00
62 TMP 2-Chlorotoluene	-1.000	0.000	0.0	0	-20.17#
63 TMP Propylbenzene	0.200	0.164	18.0	100	0.00
64 TMP 4-Ethyltoluene	-1.000	0.000	0.0	0	-20.32#
65 TMP m,p-Xylene	0.400	0.346	13.5	100	0.00
66 TMP o-Xylene	0.200	0.174	13.0	100	0.00
67 TMP Styrene	0.200	0.167	16.5	100	0.00
68 TMP Bromoform	0.200	0.000	100.0#	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.249	7.5	100	0.00
70 TMP Benzyl chloride	0.200	0.106	47.0#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	0.200	0.159	20.5	100	0.00
72 TMP 1,2,4-Trimethylbenzene	0.200	0.190	5.0	100	0.00
73 TMP 1,3-Dichlorobenzene	0.200	0.180	10.0	100	0.00
74 TMP 1,4-Dichlorobenzene	0.200	0.170	15.0	101	0.00
75 TMP 1,2-Dichlorobenzene	0.200	0.180	10.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.200	0.159	20.5	100	0.02
77 TMP Naphthalene	0.200	0.239	-19.5	100	0.02
78 TMP Hexachlorobutadiene	0.200	0.191	4.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	2.051	-31.8#	100	0.00
3 TMP Dichlorodifluoromethane	4.123	3.922	4.9	100	0.00
4 TMP Chloromethane	1.882	2.306	-22.5	99	0.00
5 TMP F-114	4.217	4.075	3.4	100	-0.04
6 TMP Vinyl chloride	1.851	1.820	1.7	101	0.00
7 TMP 1,3-Butadiene	1.216	1.104	9.2	100	0.00
8 TMP Butane	2.183	0.000	100.0#	0#	-4.32#
9 TMP Bromomethane	1.847	1.784	3.4	100	0.00
10 TMP Chloroethane	0.655	0.652	0.5	101	0.00
11 TMP Vinyl bromide	1.609	1.579	1.9	104	-0.02
12 TMP Ethanol	0.663	0.000	100.0#	0#	-4.96#
13 TMP Acrolein	0.729	0.710	2.6	100	-0.02
14 TMP Pentane	2.461	0.000#	100.0#	0#	-6.25#
15 TMP Trichlorofluoromethane	4.781	4.969	-3.9	100	-0.04
16 TMP Acetone	0.710	0.000#	100.0#	0#	-5.57#
17 TMP 2-Propanol	3.096	0.000	100.0#	0#	-5.78#
18 TMP 1,1-Dichloroethene	1.645	1.608	2.2	98	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.600	-0.1	100	-0.03
20 TMP Methylene chloride	1.479	0.000#	100.0#	0#	-6.80#
21 TMP t-Butyl alcohol (TBA)	2.668	0.000	100.0#	0#	-6.57#
22 TMP 3-Chloropropene	2.056	2.027	1.4	100	0.00
23 TMP CFC-113	3.469	3.670	-5.8	100	0.00
24 TMP Carbon disulfide	5.167	0.000	100.0#	0#	-7.28#
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.259	5.1	100	0.00
26 TMP Vinyl acetate	3.801	0.000#	100.0#	0#	-8.54#
27 TMP 1,1-Dichloroethane	3.342	3.272	2.1	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.639	3.0	100	0.00
29 TMP Hexane	2.068	0.000	100.0#	0#	-10.01#
30 TMP Chloroform	4.060	3.904	3.8	100	-0.02
31 TMP Ethyl acetate	3.789	0.000	100.0#	0#	-9.92#
32 TMP Tetrahydrofuran	1.809	1.795	0.8	100	0.03
33 TMP 2-Butanone (MEK)	0.619	0.585	5.5	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.549	5.1	97	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.168	5.2	97	0.00
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	6.045	-6.3	105	0.00
38 TMP Cyclohexane	1.367	0.000	100.0#	0#	-13.07#
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.525	3.0	100	0.00
41 TMP 1,4-Dioxane	0.230	0.244	-6.1	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	0.000	100.0#	0#	-14.24#
43 TMP Methyl methacrylate	0.485	0.000	100.0#	0#	-14.36#

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111520.D  
 Acq On : 16 Nov 2022 6:29 am  
 Operator : bat  
 Sample : 0.2 ppbv 67-196B  
 Misc : T6, 50cc of 1ppbv  
 ALS Vial : 20 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:21:30 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.000	100.0#	0#	-14.56#
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.614	-3.5	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.541	9.7	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.000	100.0#	0#	-15.23#
49 TMP trans-1,3-Dichloropropene	0.563	0.509	9.6	100	0.00
50 TMP Toluene	0.707	0.720	-1.8	99	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.539	2.0	106	0.00
52 TMP 2-Hexanone	0.846	0.000#	100.0#	0#	-16.56#
53 TMP Tetrachloroethene	0.490	0.527	-7.6	99	0.00
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.774	6.1	99	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.053	4.4	100	0.00
58 TMP Ethylbenzene	1.968	1.694	13.9	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.311	6.0	100	0.00
60 TMP Nonane	0.981	0.000	100.0#	0#	-19.30#
61 TMP Isopropylbenzene	1.792	1.672	6.7	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.000	100.0#	0#	-20.17#
63 TMP Propylbenzene	3.292	2.691	18.3	100	0.00
64 TMP 4-Ethyltoluene	1.611	0.000	100.0#	0#	-20.32#
65 TMP m,p-Xylene	0.633	0.547	13.6	100	0.00
66 TMP o-Xylene	0.615	0.535	13.0	100	0.00
67 TMP Styrene	0.819	0.685	16.4	100	0.00
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.641	7.5	100	0.00
70 TMP Benzyl chloride	0.987	0.597	39.5#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.150	20.7	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	0.841	32.6#	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	0.910	10.1	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.805	15.0	101	0.00
75 TMP 1,2-Dichlorobenzene	1.024	0.924	9.8	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.454	27.5	100	0.02
77 TMP Naphthalene	1.132	0.867	23.4	100	0.02
78 TMP Hexachlorobutadiene	1.045	0.998	4.5	100	0.00

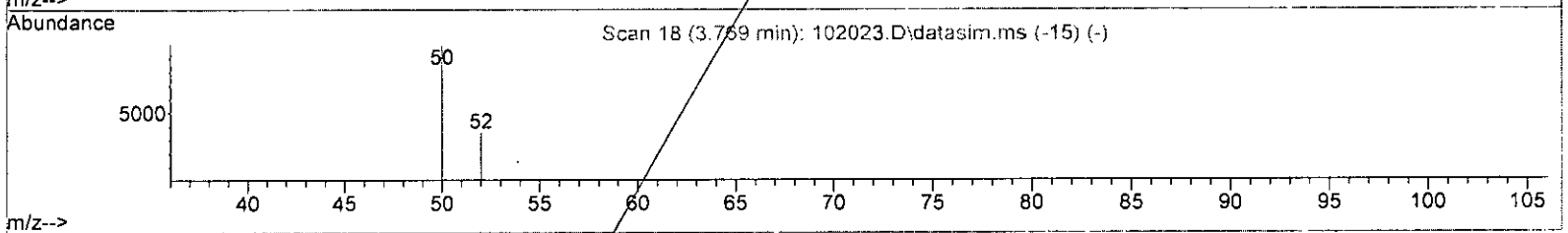
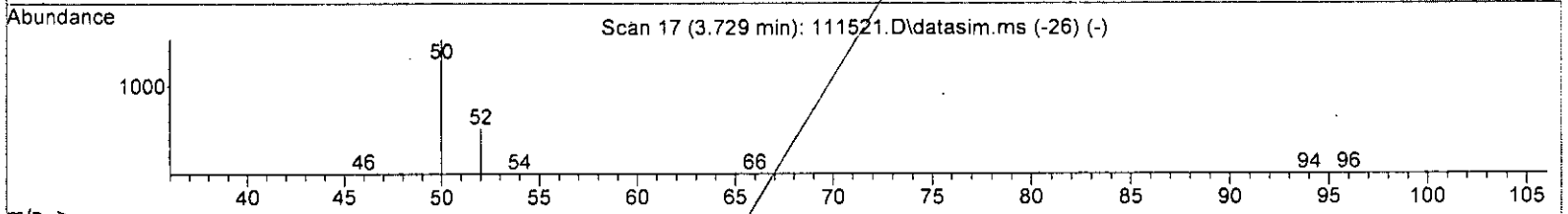
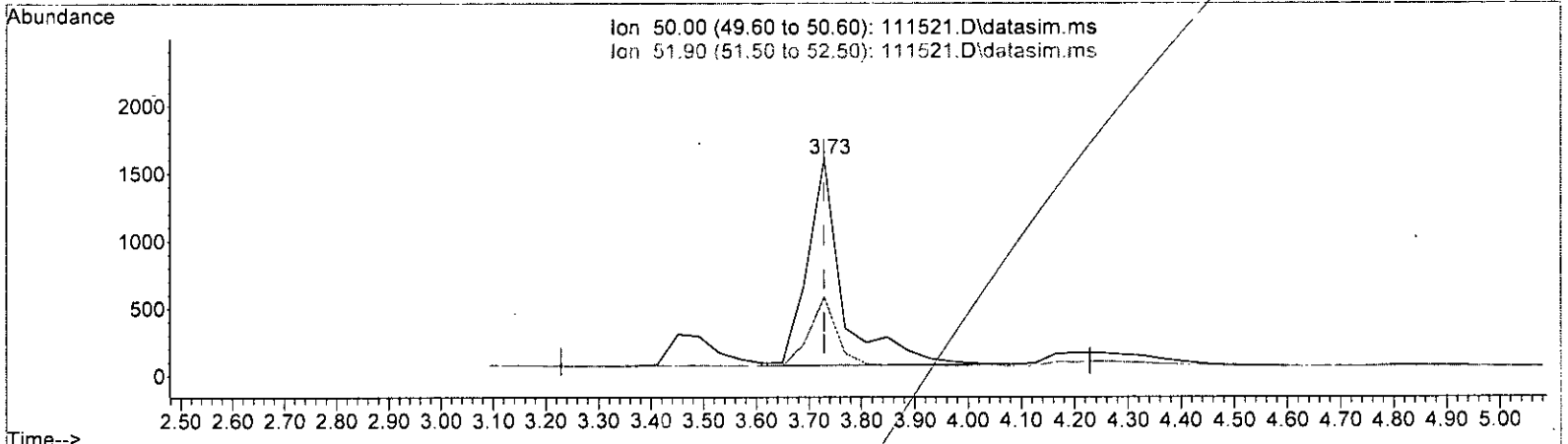
(#) = Out of Range

SPCC's out = 8 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111521.D\data.ms

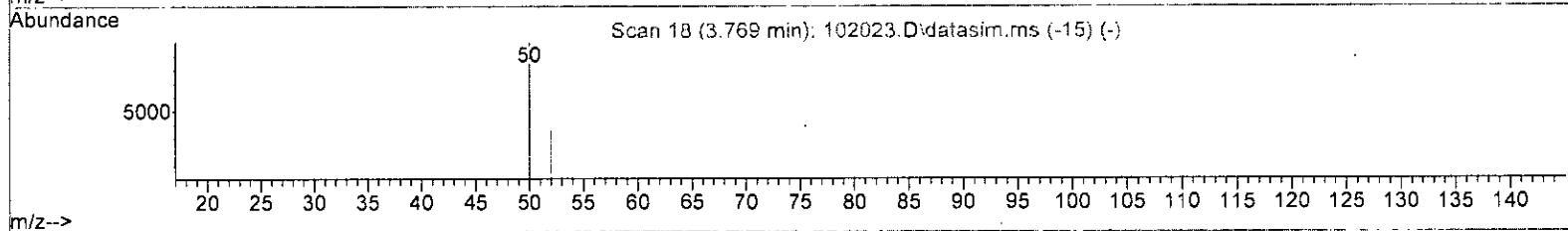
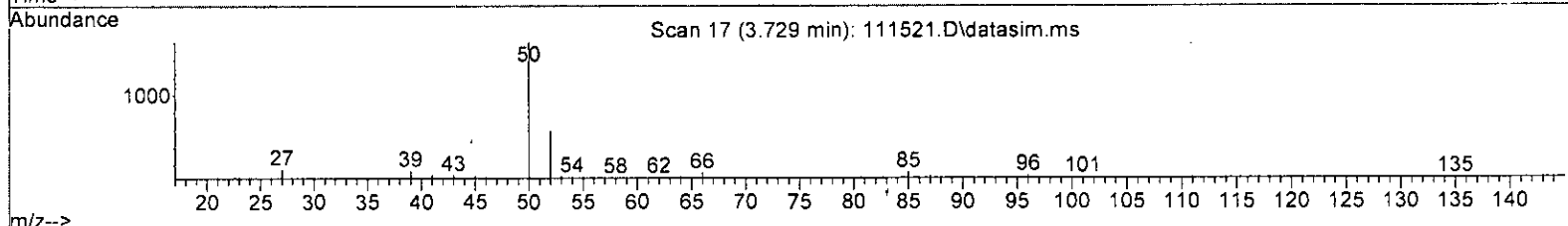
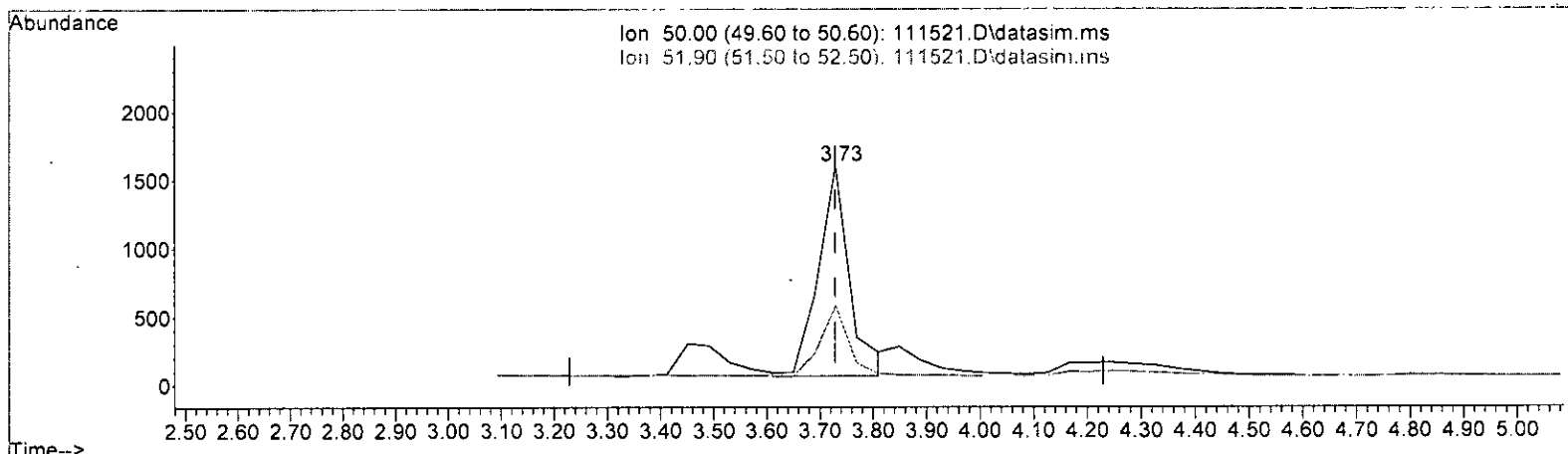
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	0.599 ppbv	
response	7076	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	33.81
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(4) Chloromethane (TMP)

3.729min (+ 0.000) 0.527 ppbv m

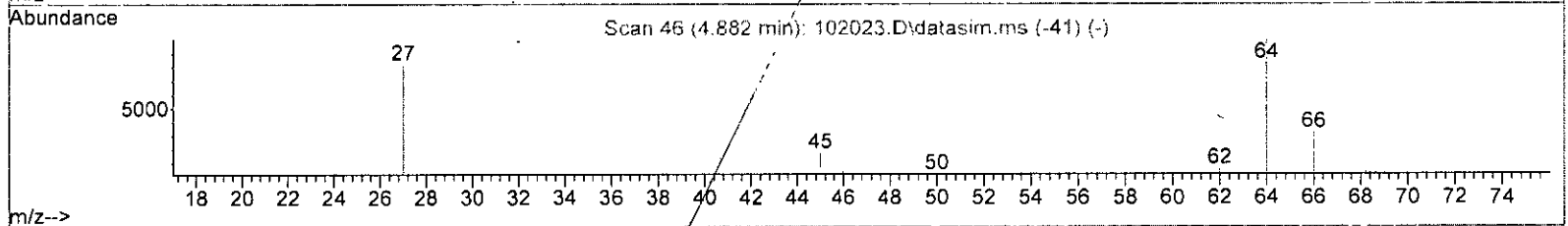
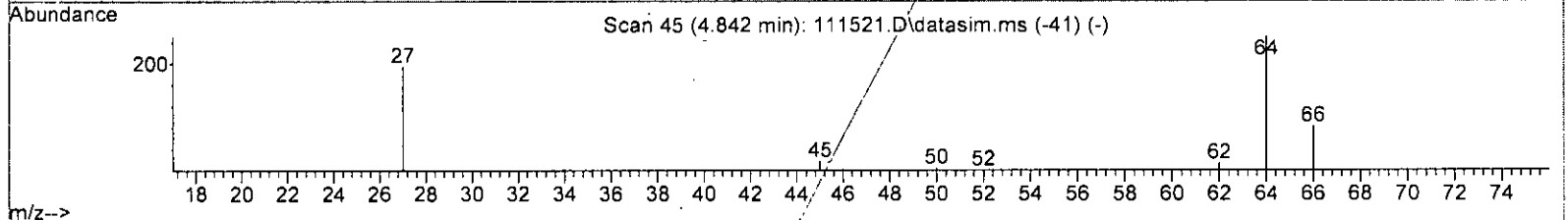
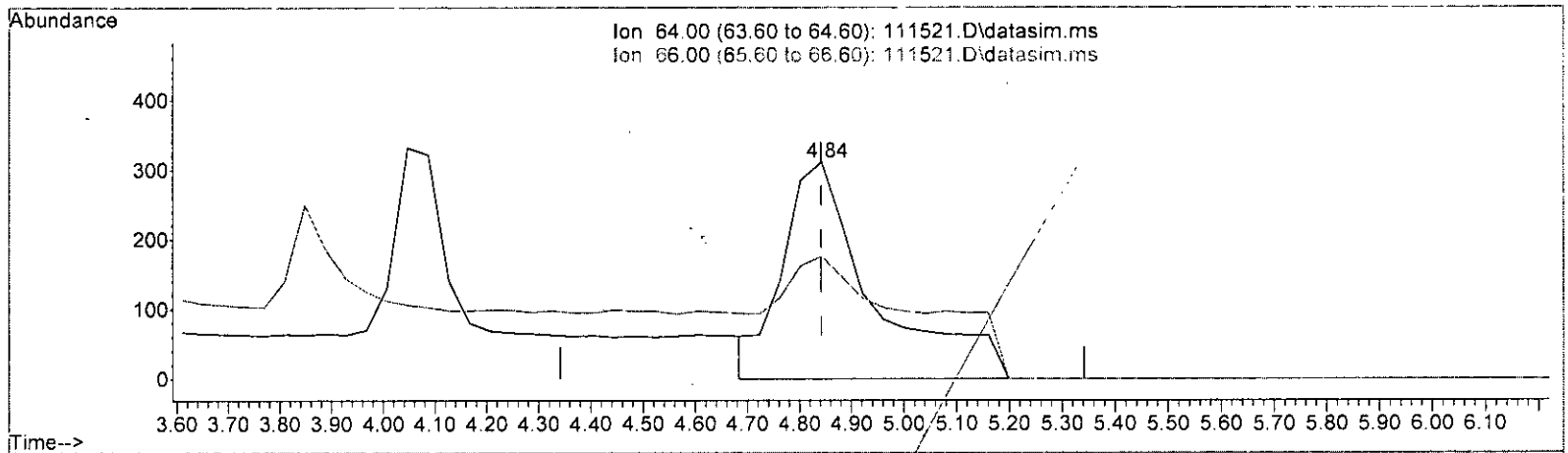
response	6232
Ion	Exp% Act%
50.00	100.00 100.00
51.90	25.30 36.34
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(10) Chloroethane (IMP)

4.842min ( 0.000) 0.874 ppbv

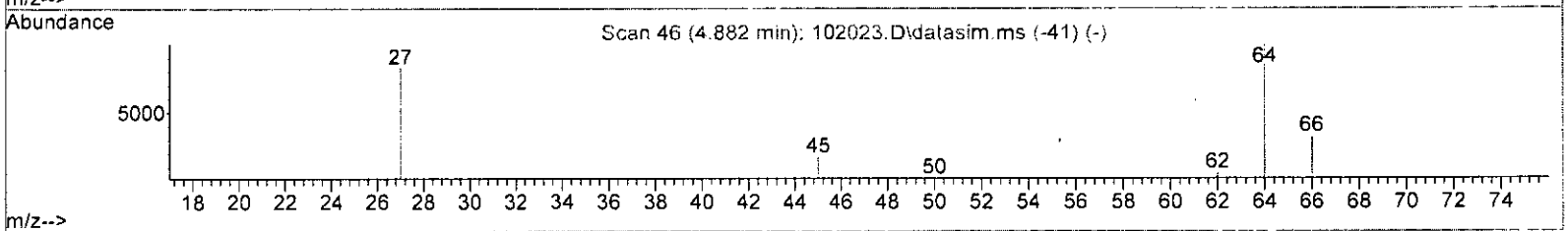
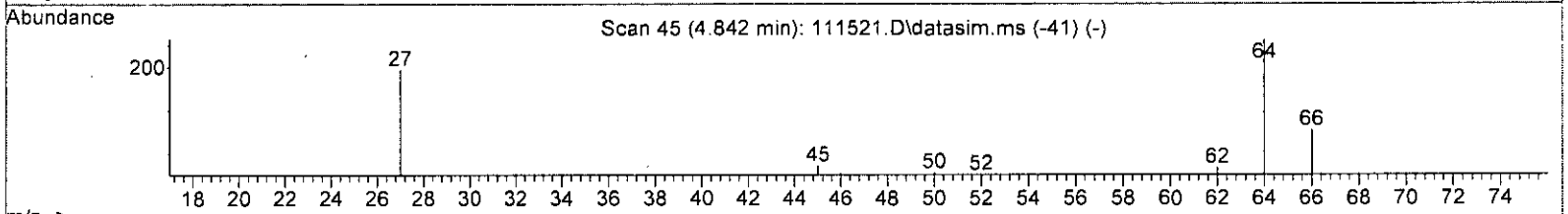
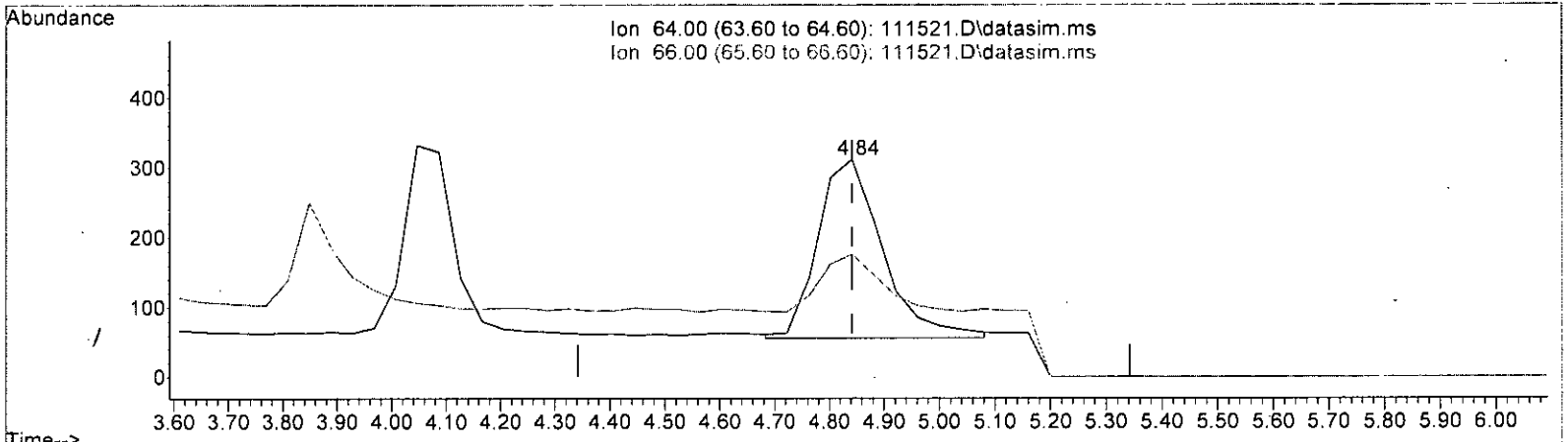
response	3591	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	56.59
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111521.D\data.ms

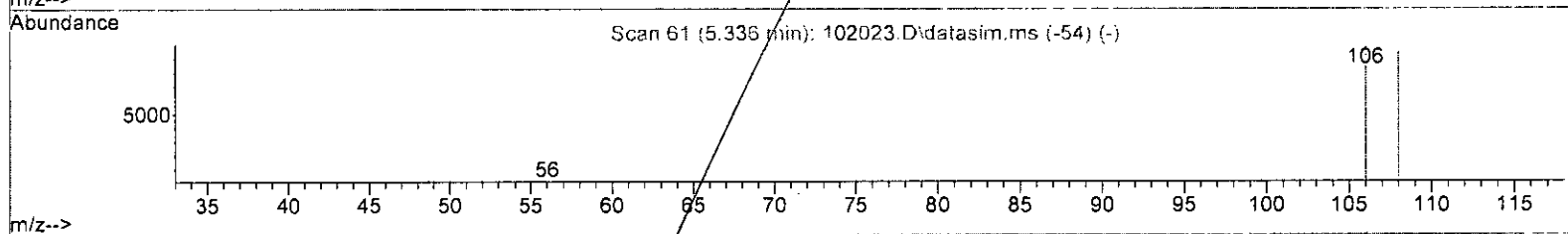
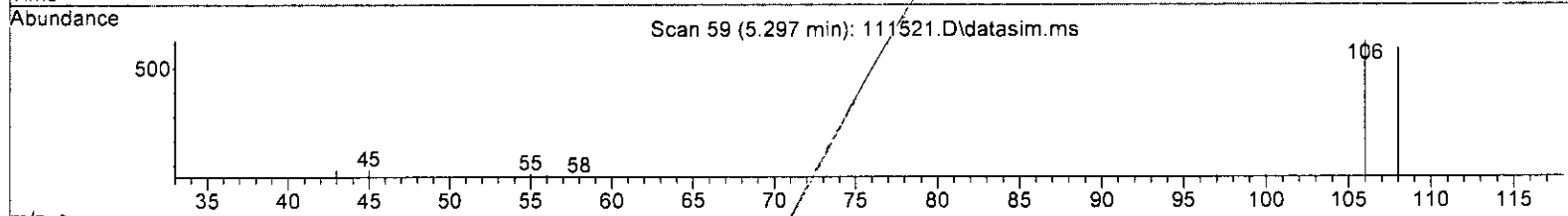
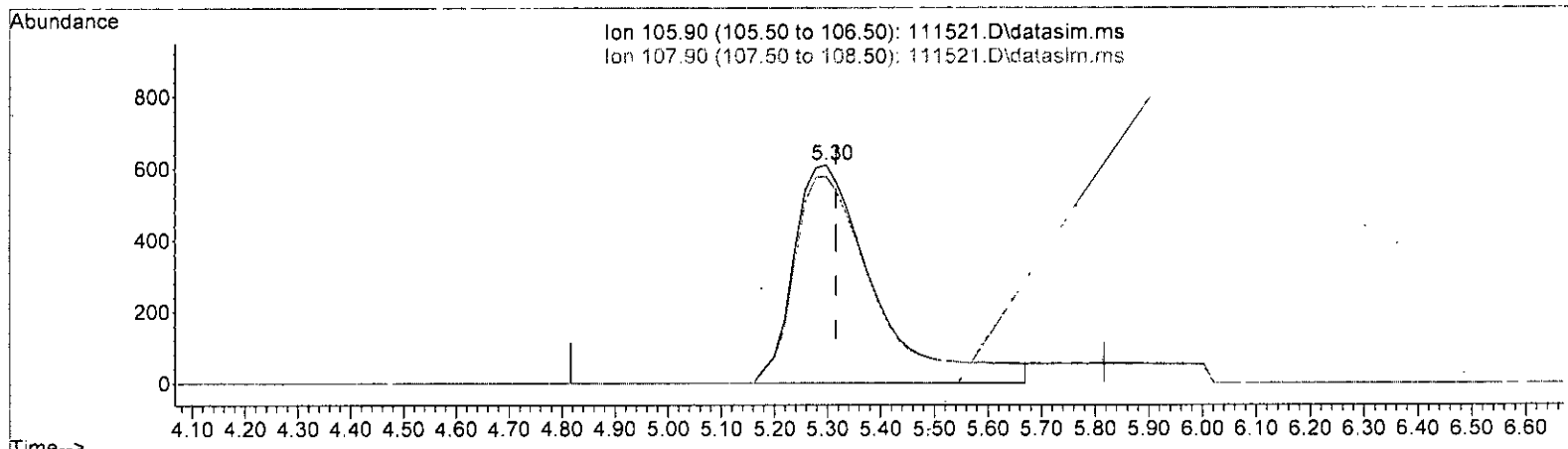
(10) Chloroethane (IMP)			
4.842min ( 0.000) 0.509 ppbv m			
response	2091		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	31.80	56.59	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(11) Vinyl bromide (TMP)  
 5.297min (-0.020) 0.678 ppbv

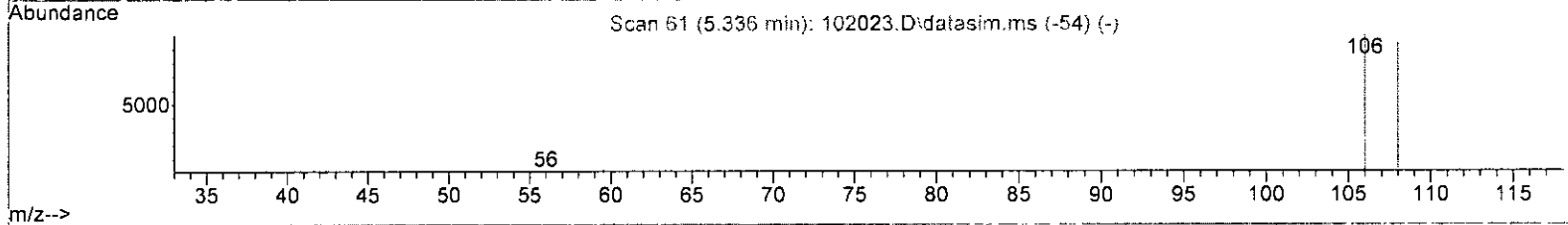
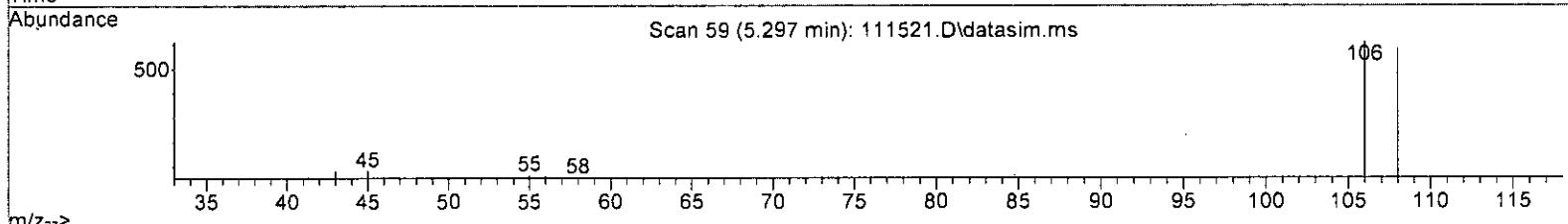
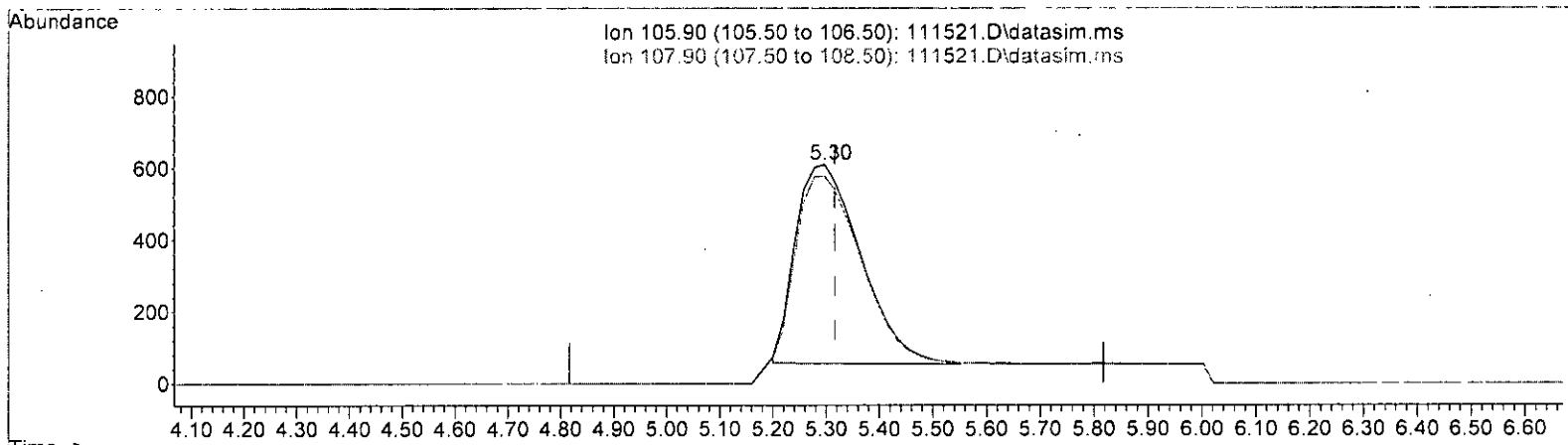
response	6855	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	97.72
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(11) Vinyl bromide (TMP)  
 5.297min (-0.020) 0.465 ppbv m

response	4701	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	142.50#
0.00	0.00	0.00
0.00	0.00	0.00

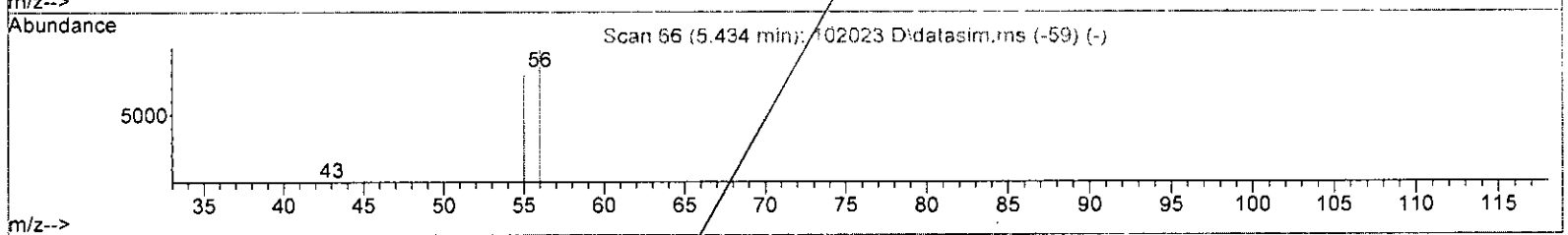
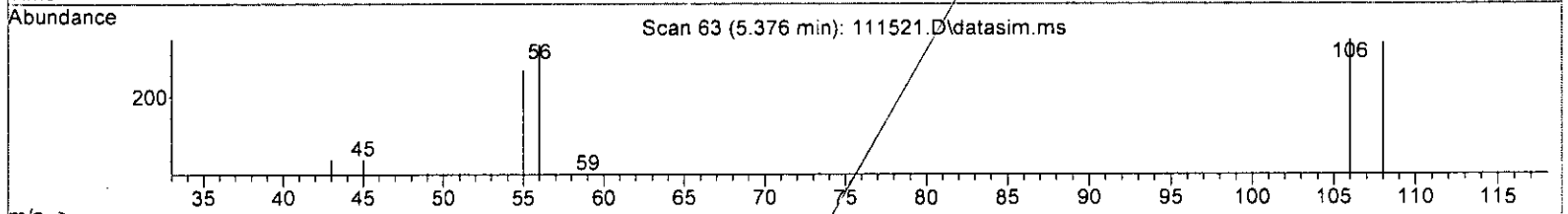
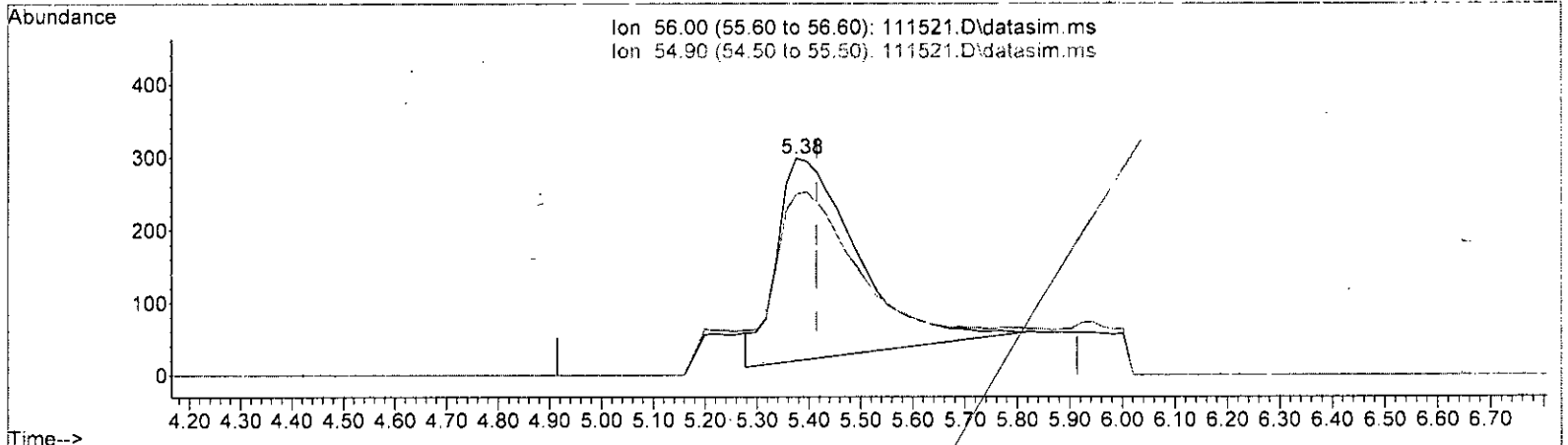
*W/alt*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

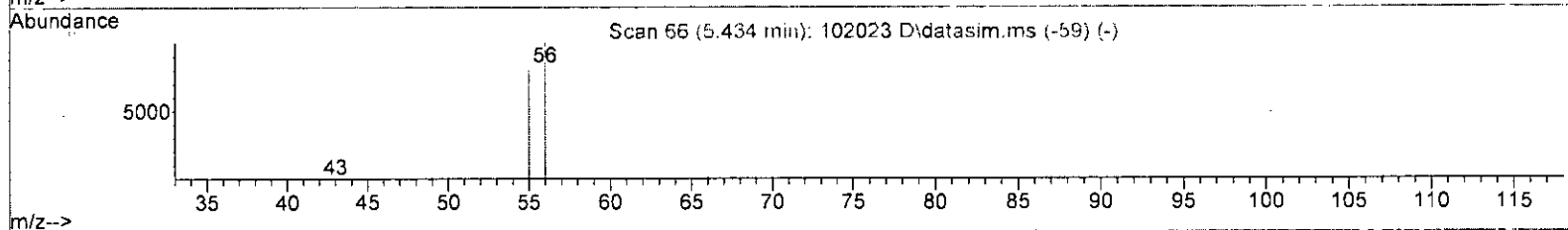
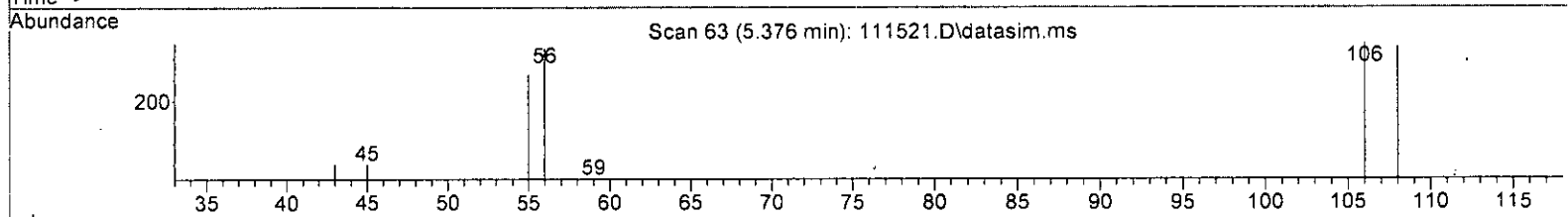
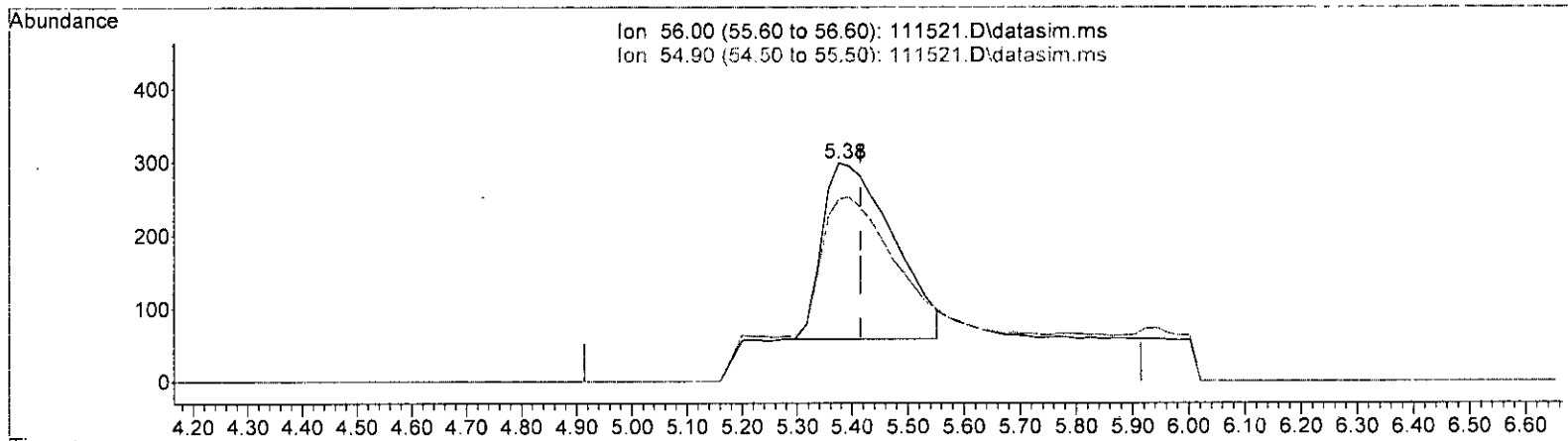
(13) Acrolein (TMP)		
5.376min (-0.039) 0.660 ppbv		
response	3019	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	82.81
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: TO15DC.M



TIC: 111521.D\data.ms

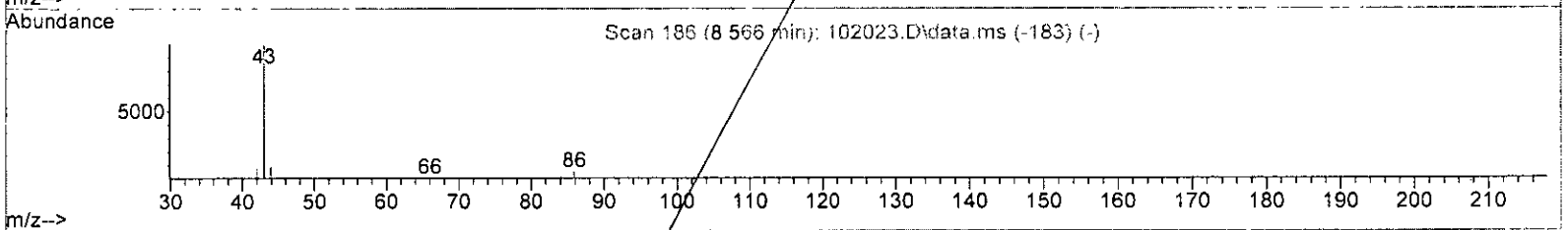
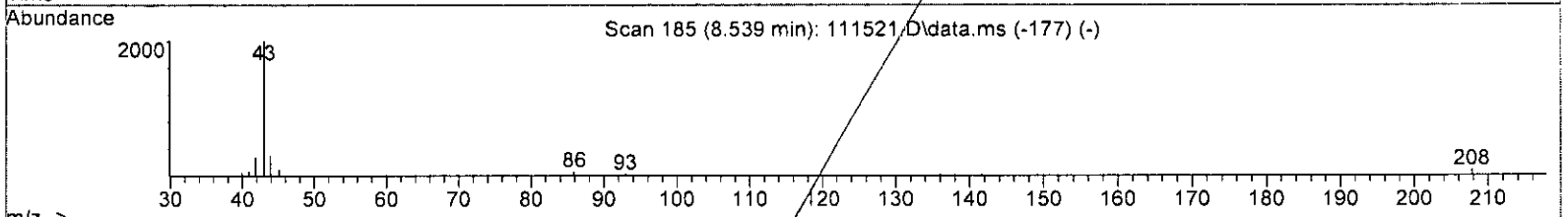
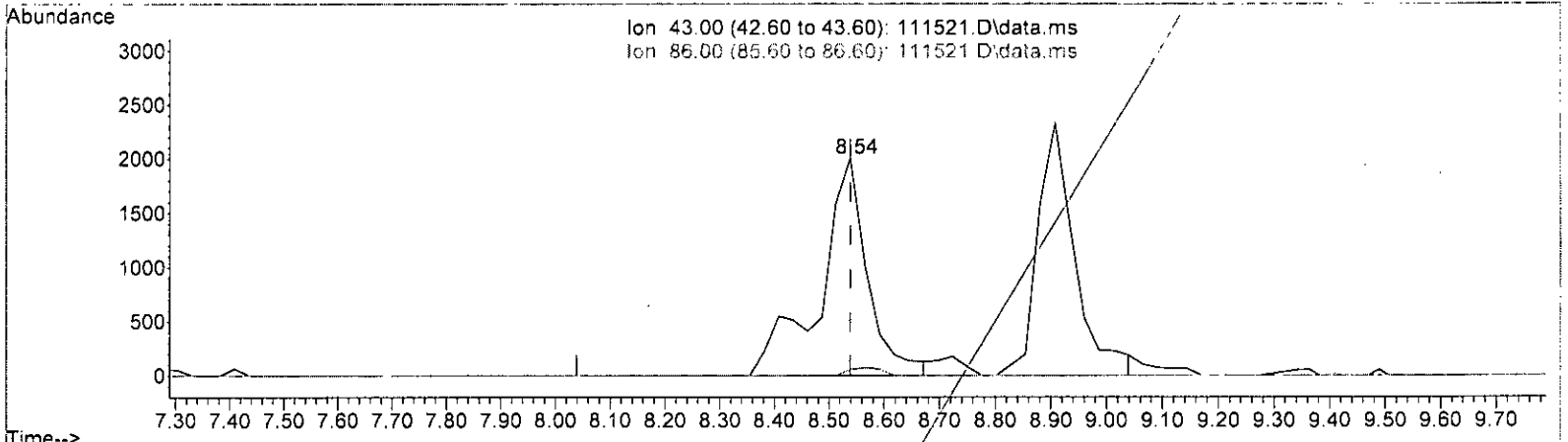
(13) Acrolein (TMP)		
5.376min (-0.039) 0.467 ppbv m		
response	2135	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	117.10#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

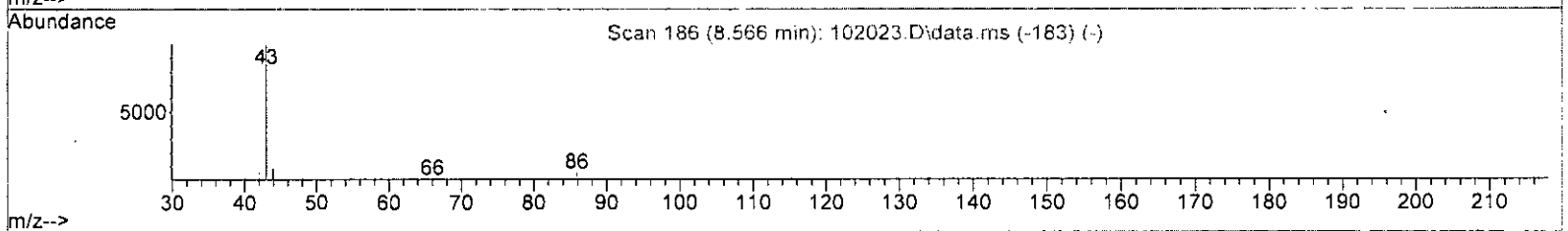
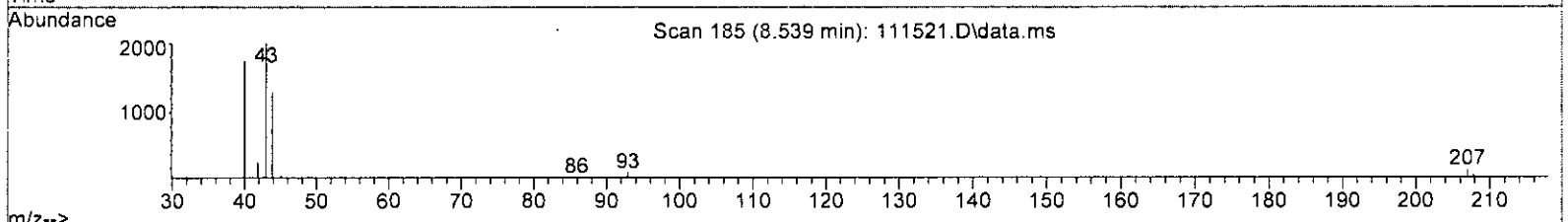
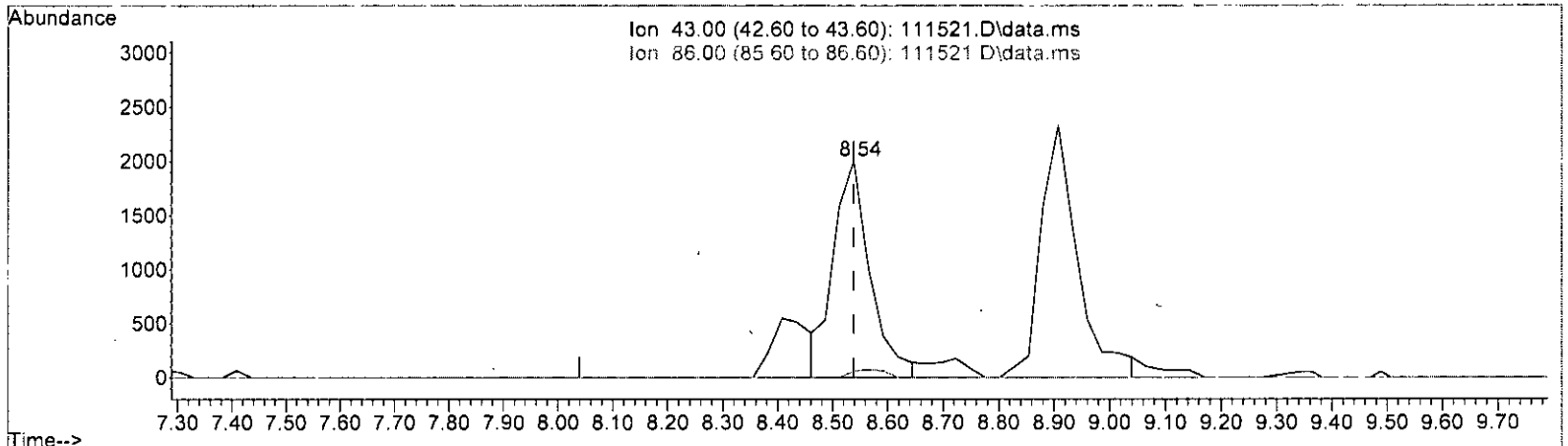
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000) 0.507 ppbv		
response	12091	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	2.95
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

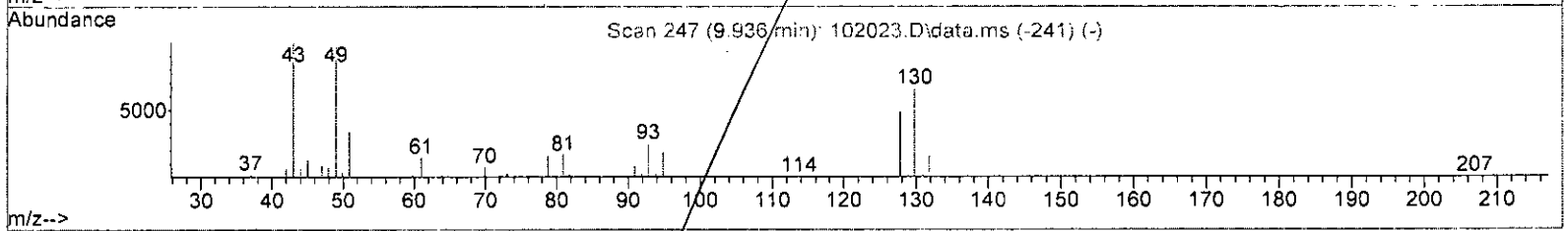
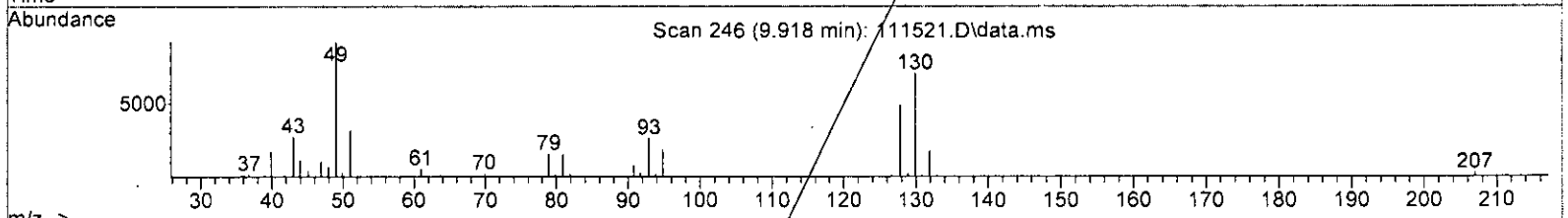
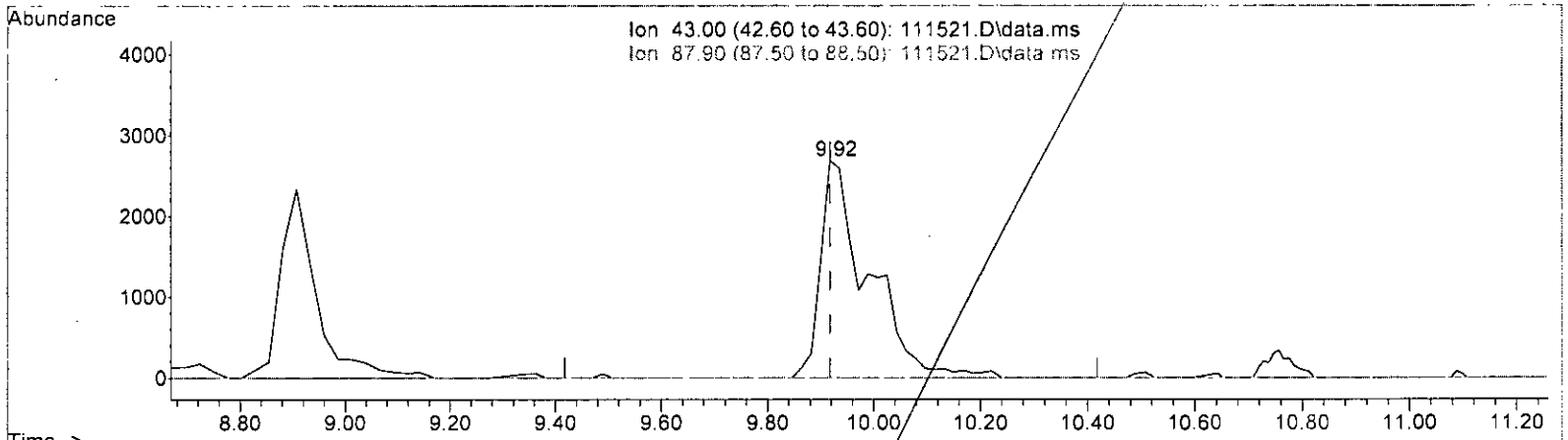
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000)	0.386 ppbv m	
response	9209	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	2.95
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(31) Ethyl acetate (TMP)

9.918min (-0.000) 0.704 ppbv

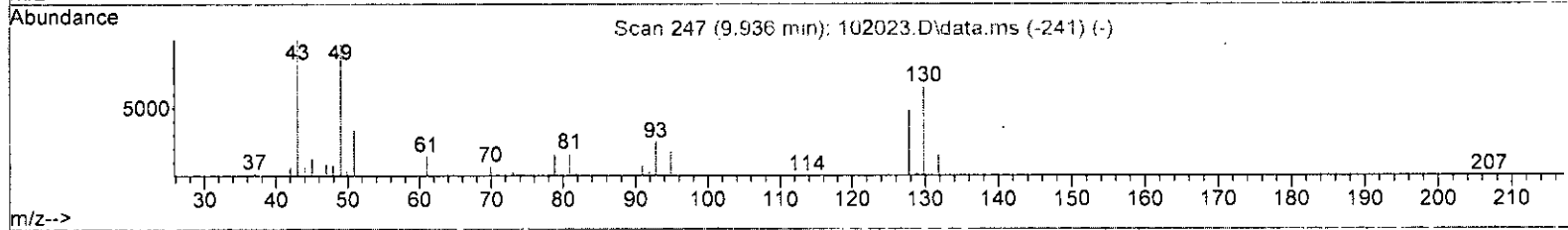
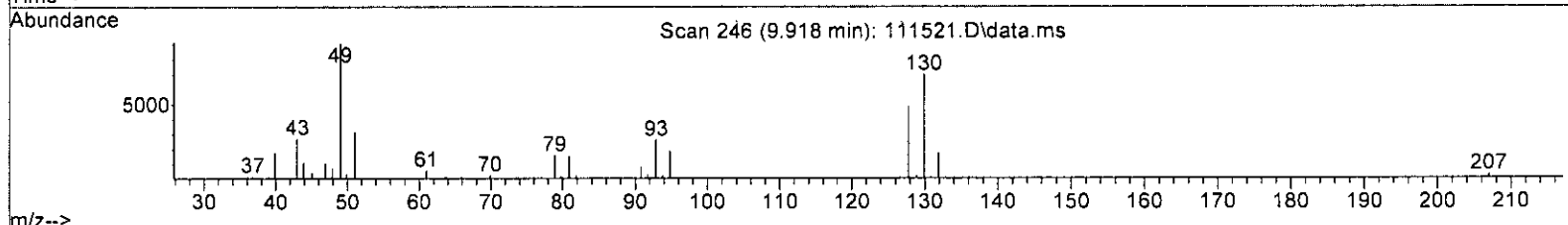
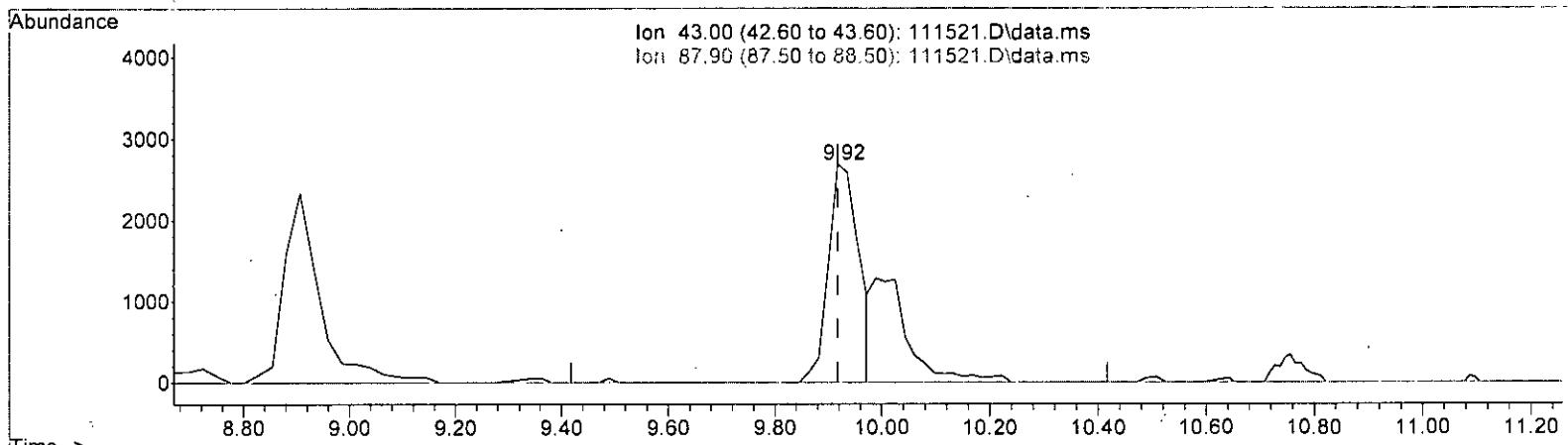
response	16734
Ion	Exp% Act%
43.00	100.00 100.00
87.90	1.70 0.00#
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature and date: 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

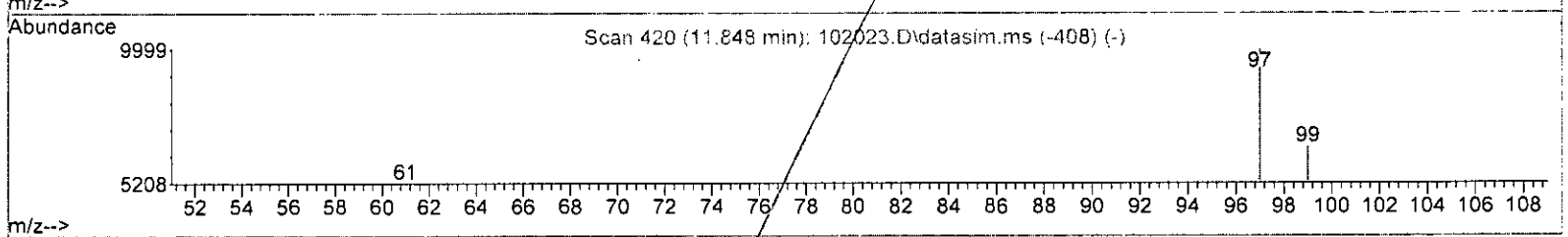
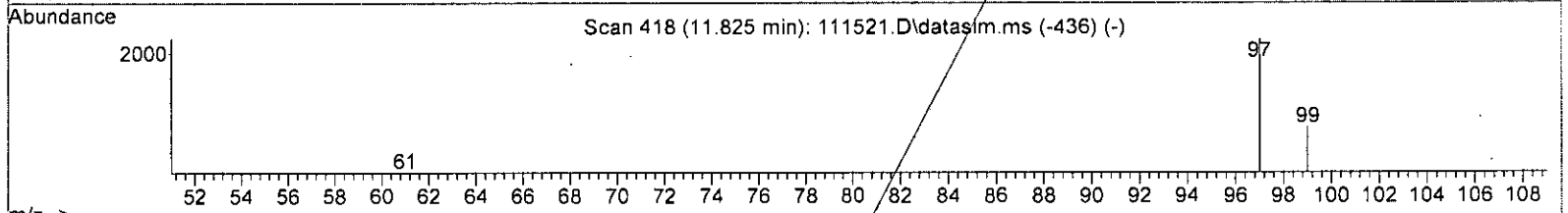
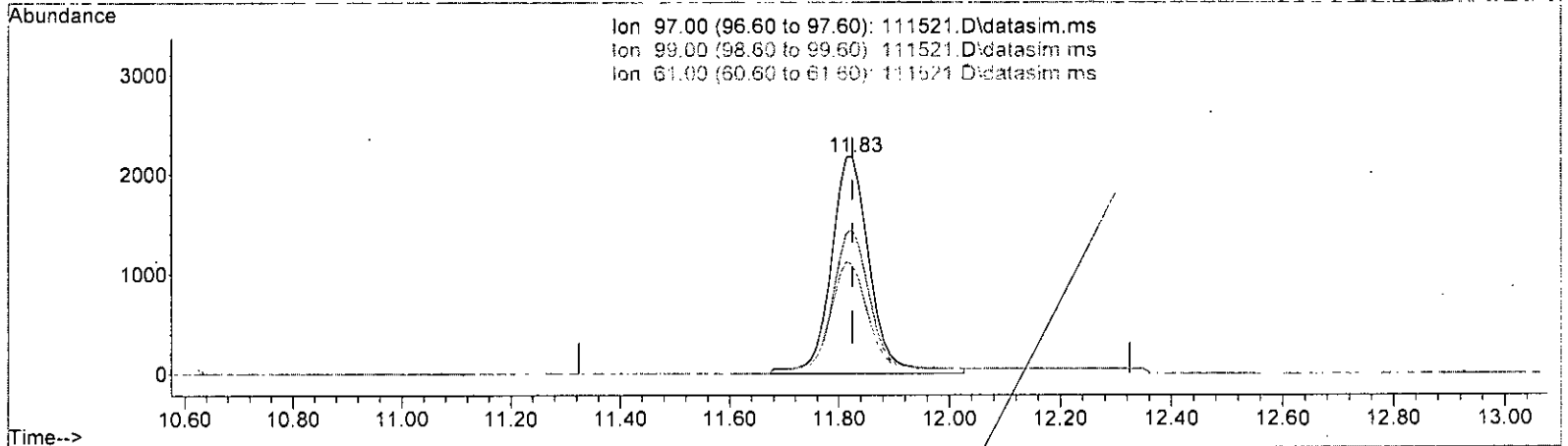
(31) Ethyl acetate (TMP)		
9.918min (-0.000)	0.451 ppbv m	
response	10717	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*S. [Signature]*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T01Sss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

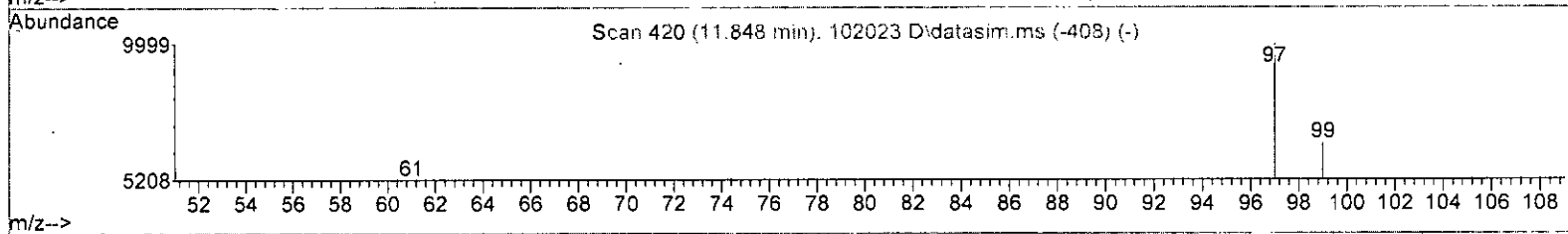
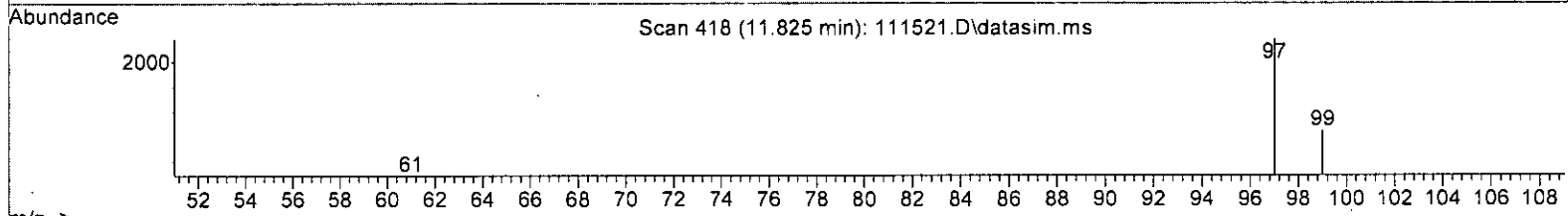
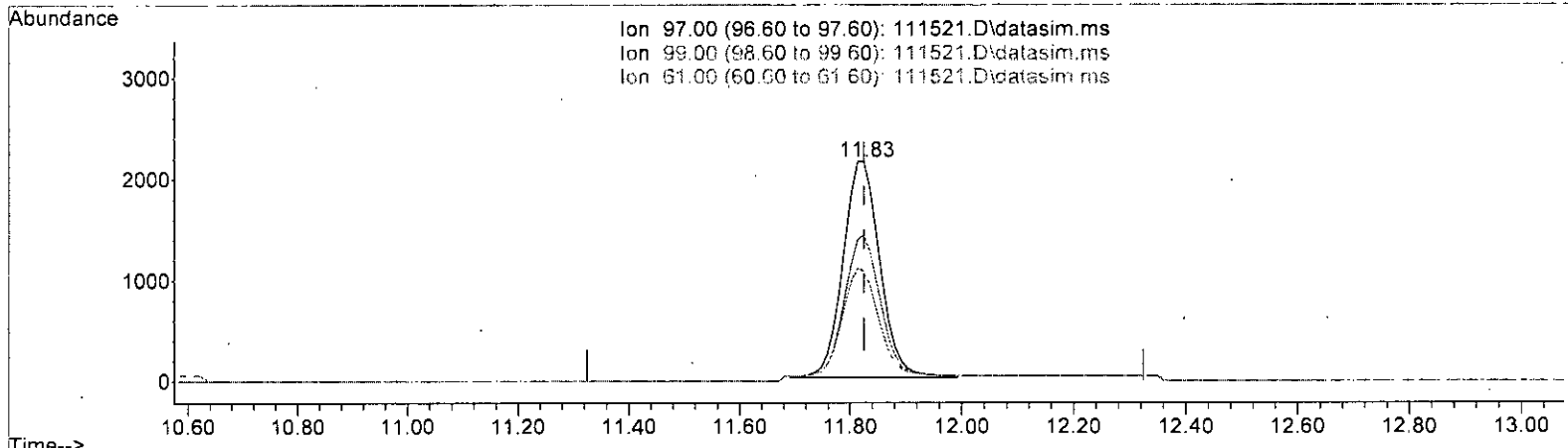
(35) 1,1,1-Trichloroethane (TMP)			
11.825min (+ 0.000)	0.506 ppbv		
response	10621		
Ion	Exp%	Act%	
97.00	100.00	100.00	
99.00	61.70	66.45	
61.00	49.30	50.16	
0.00	0.00	0.00	

*Handwritten signature: bat 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(35)	1,1,1-Trichloroethane (TMP)	
11.825min (+ 0.000)	0.472 ppbv m	
response	9916	
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	66.45
61.00	49.30	50.16
0.00	0.00	0.00

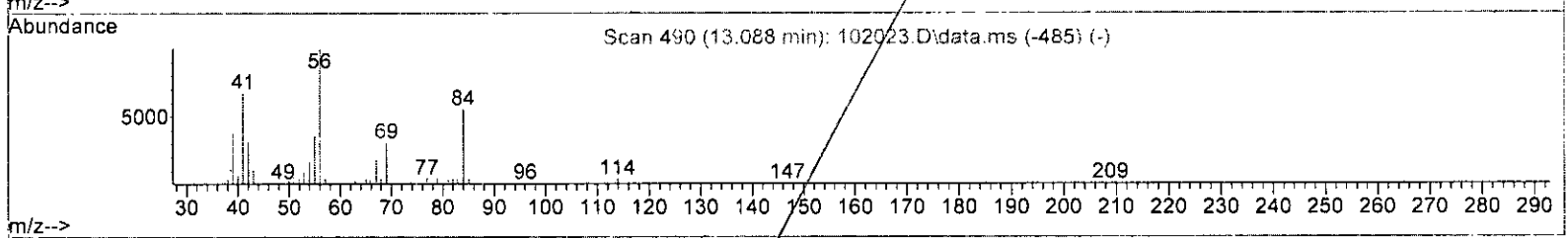
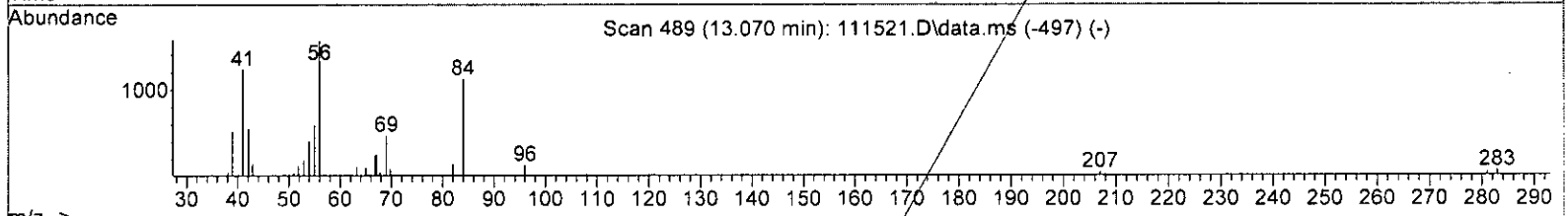
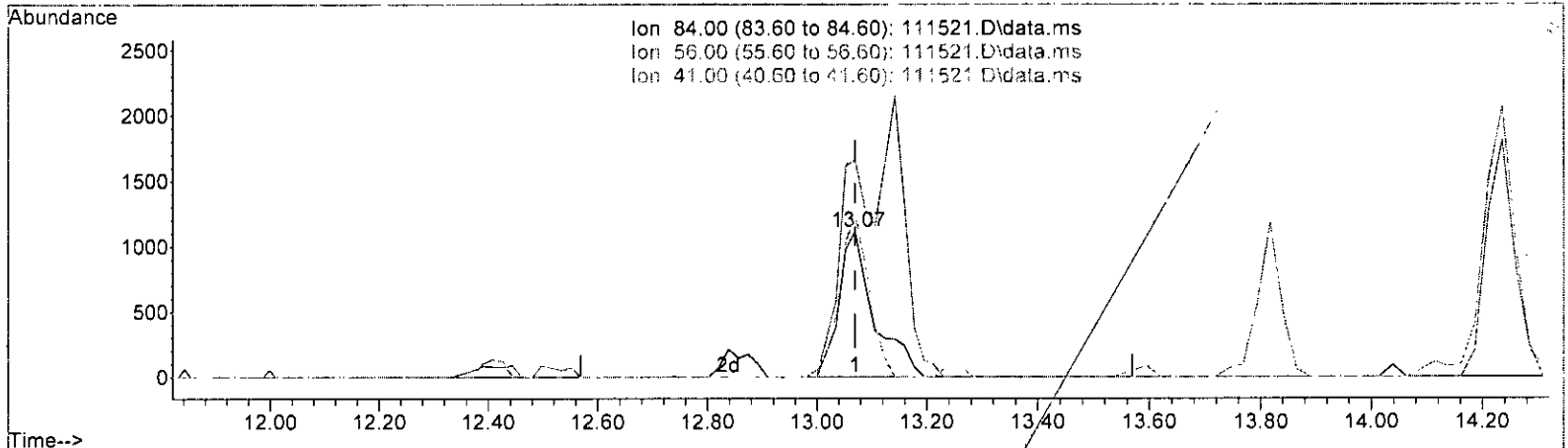
S  
11/18/22



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(38) Cyclohexane (TMP)

13.070min (+ 0.000) 0.579 ppbv

response 4967

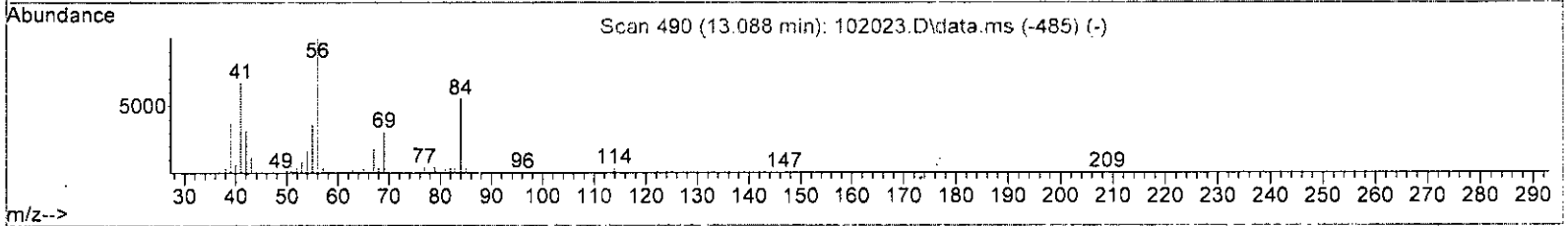
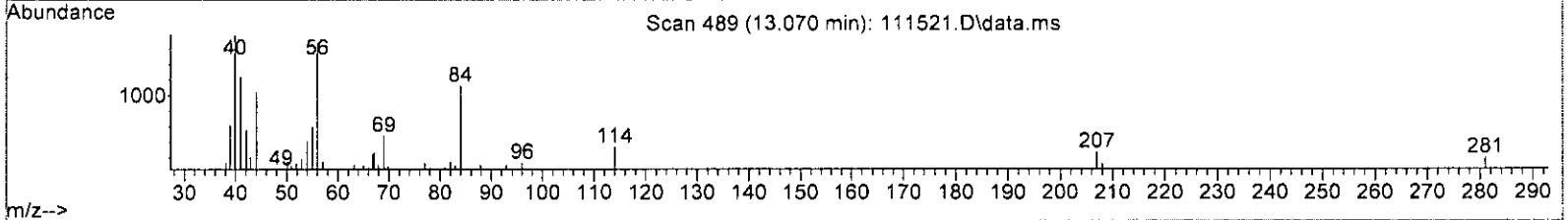
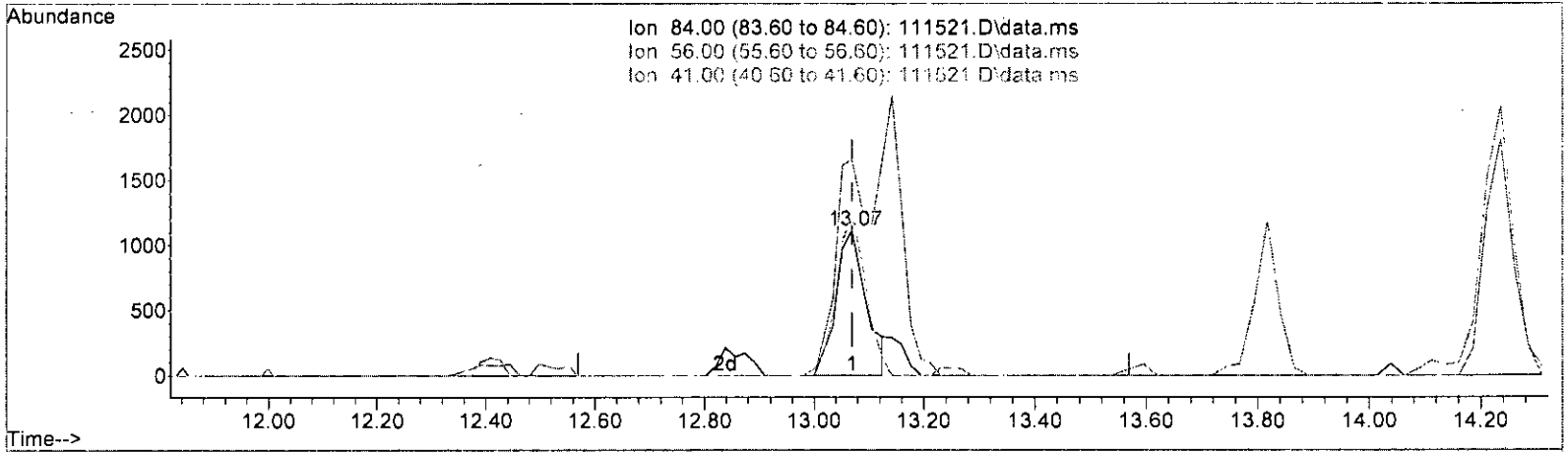
Ion	Exp%	Act%
84.00	100.00	100.00
56.00	174.40	149.15
41.00	107.20	109.96
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(38) Cyclohexane (TMP)

13.070min (+ 0.000) 0.503 ppbv m

Ion	Exp%	Act%
84.00	100.00	100.00
56.00	174.40	149.15
41.00	107.20	109.96
0.00	0.00	0.00

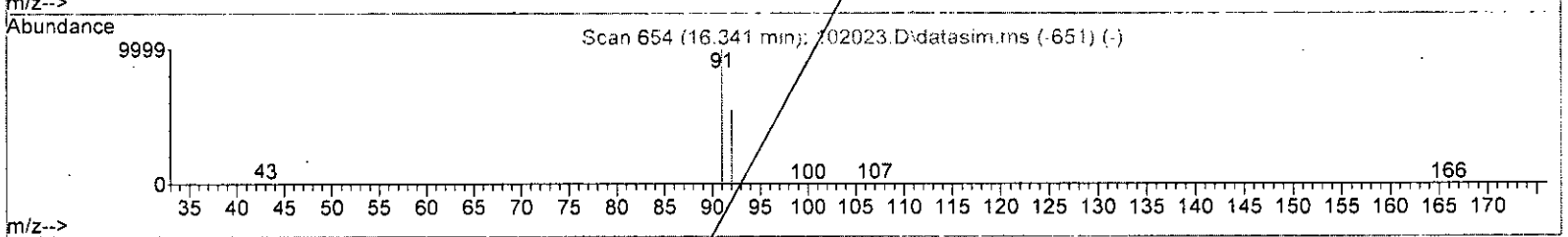
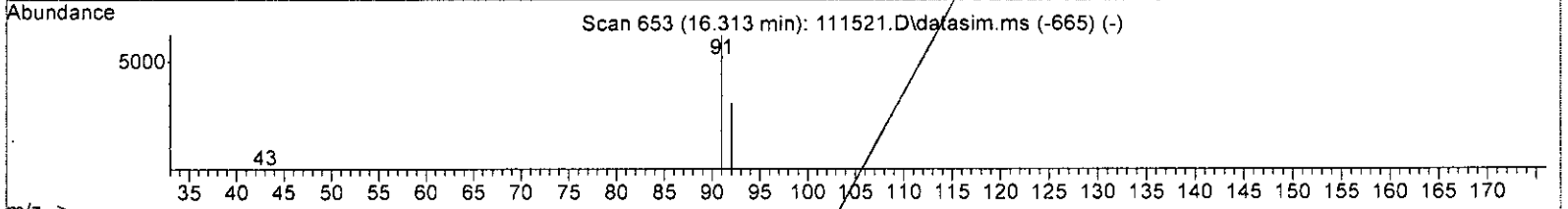
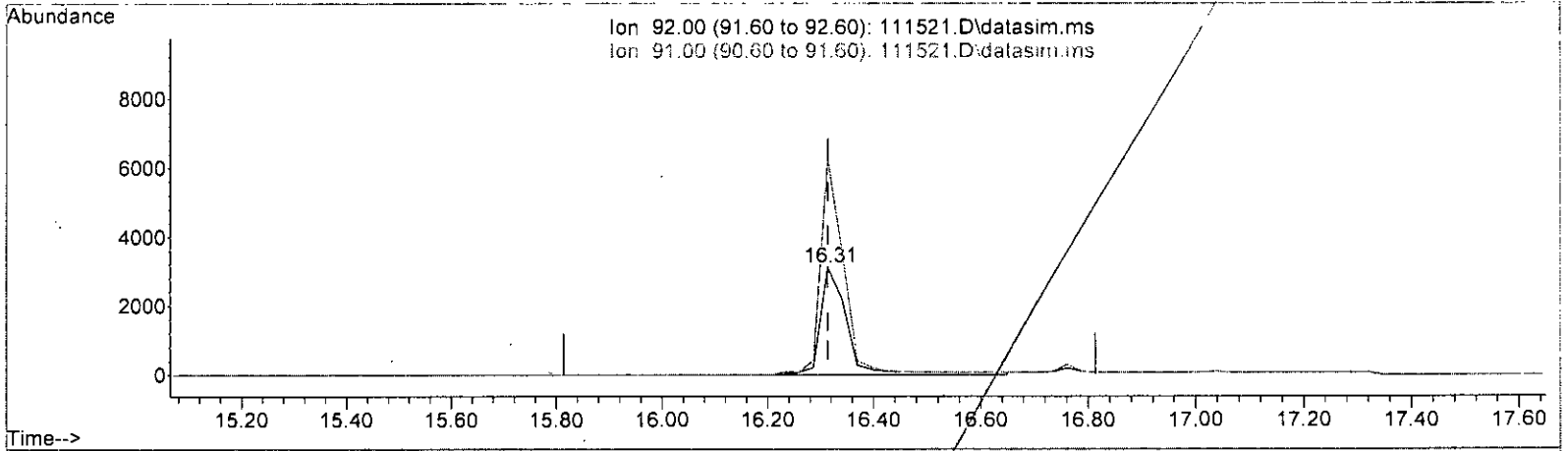
response 4321

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

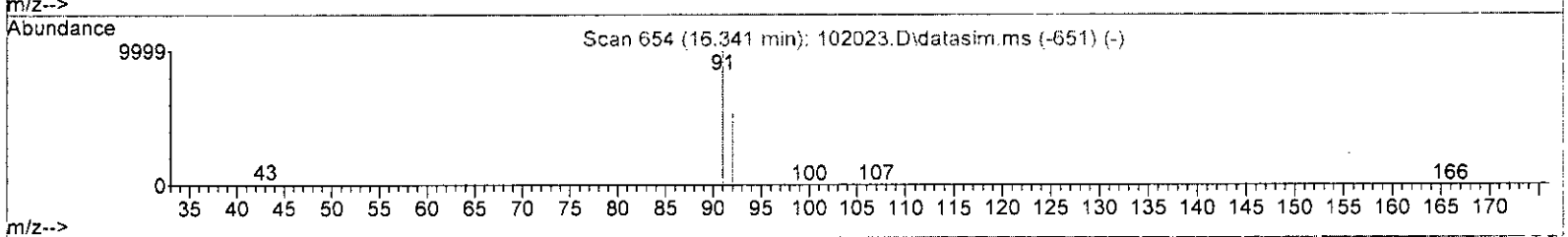
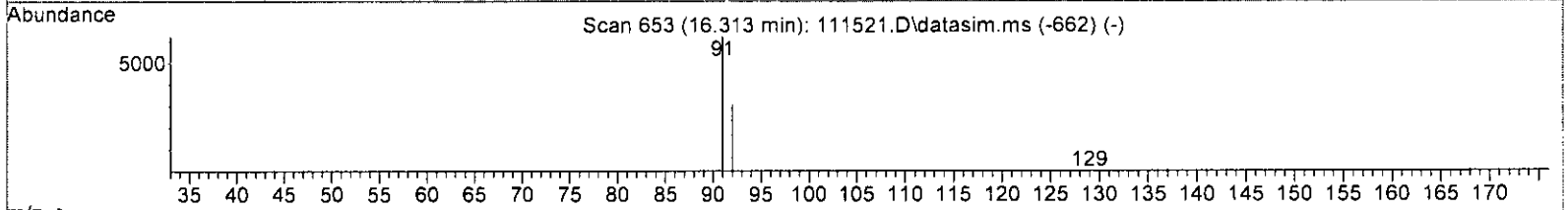
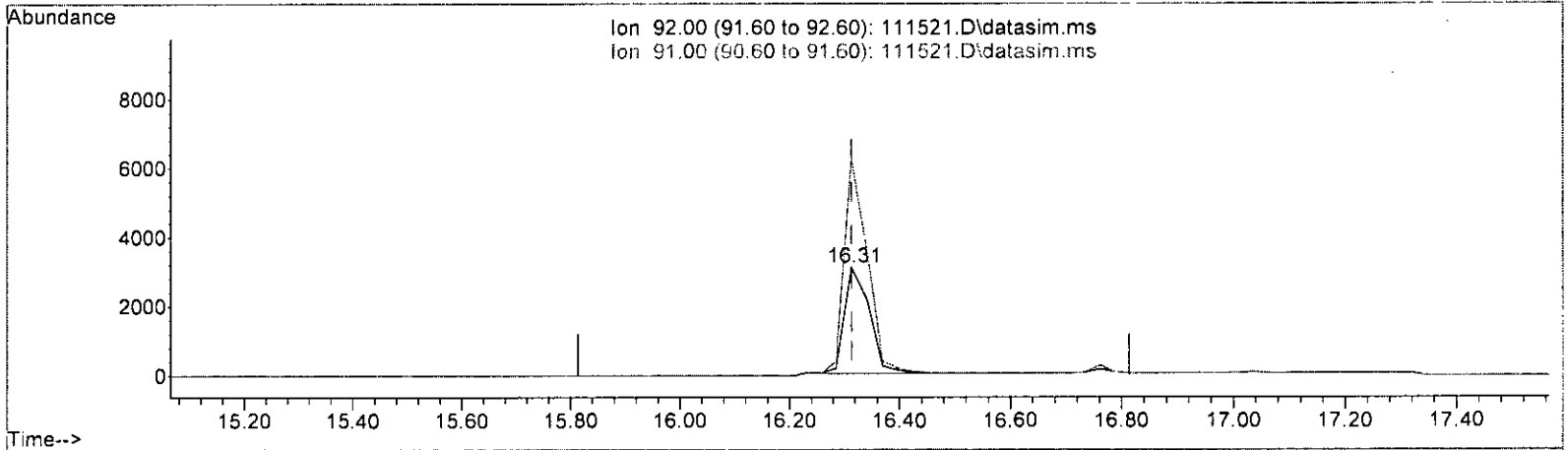
(50) Toluene (TMP)		
16.313min (-0.001)	0.556 ppbv	
response	11107	
Ion	Exp%	Act%
92.00	100.00	100.00
91.00	204.60	200.77
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

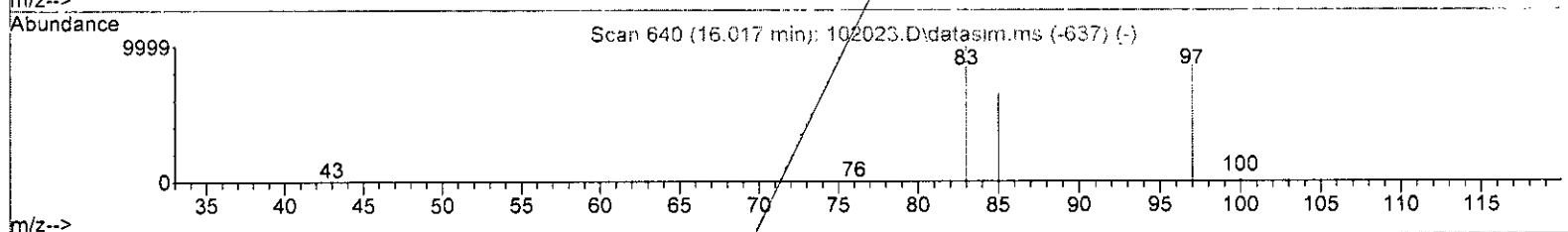
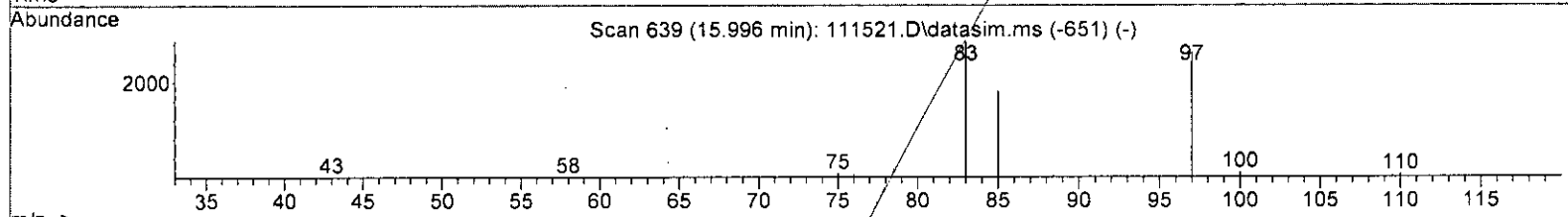
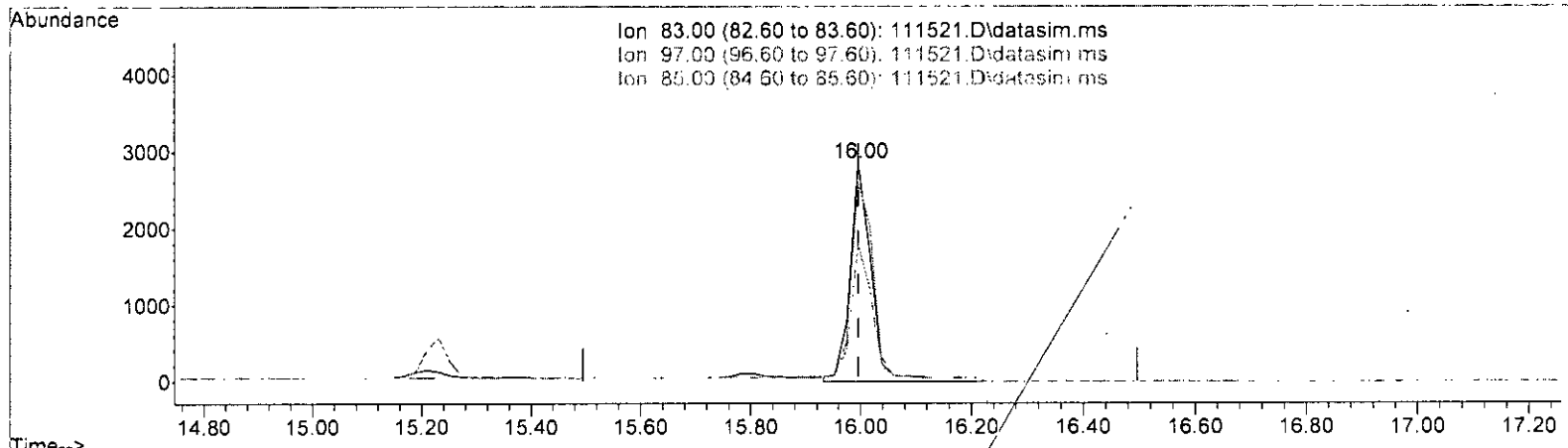
(50) Toluene (TMP)			
16.313min	(-0.001)	0.489	ppbv m
response	9760		
Ion	Exp%	Act%	
92.00	100.00	100.00	
91.00	204.60	200.77	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

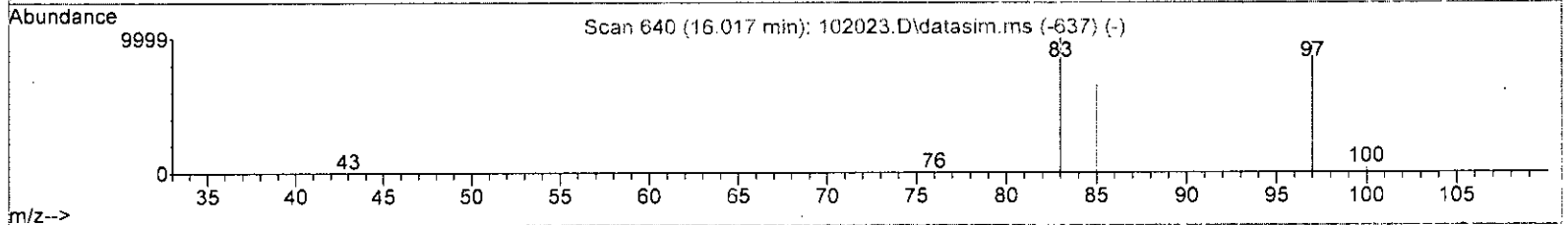
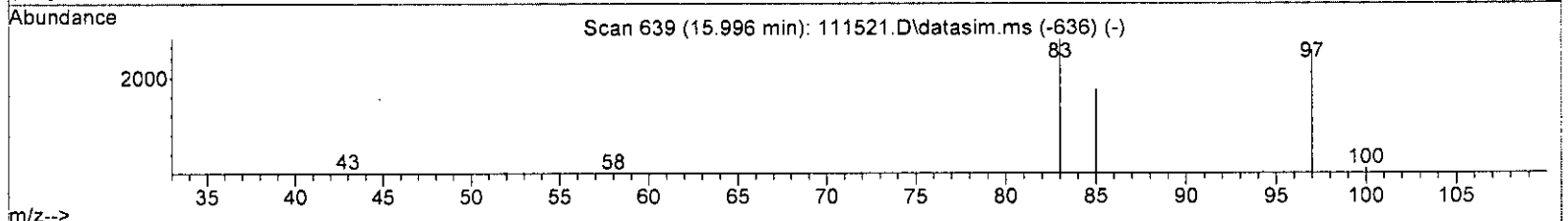
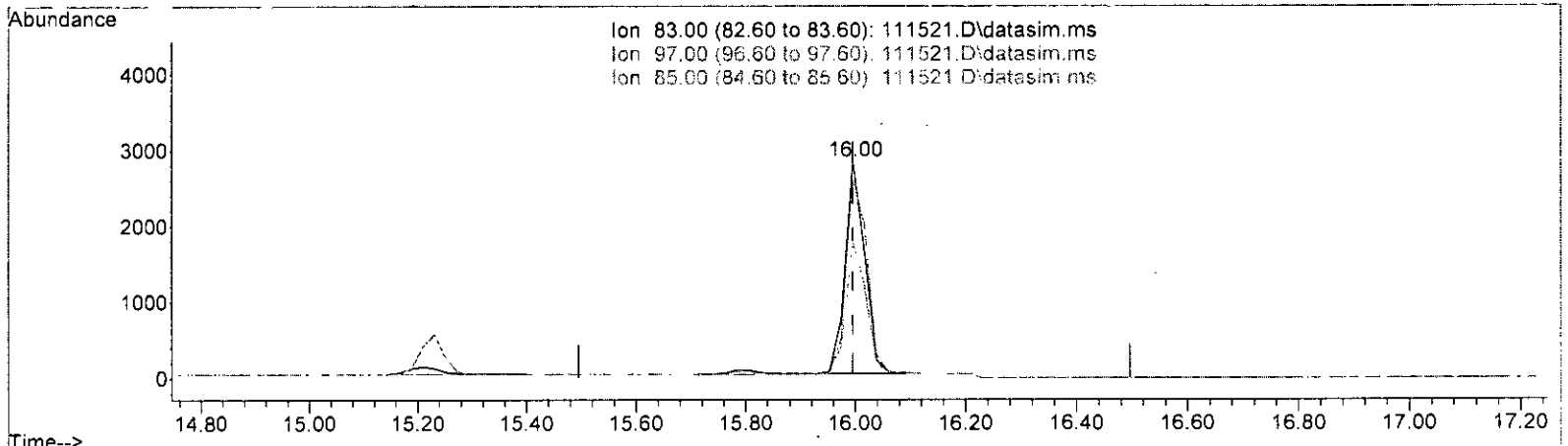
(51)	1,1,2-Trichloroethane (TMP)	
15.996min	(-0.000)	0.533 ppbv
response	7961	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	91.39
85.00	60.50	62.89
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

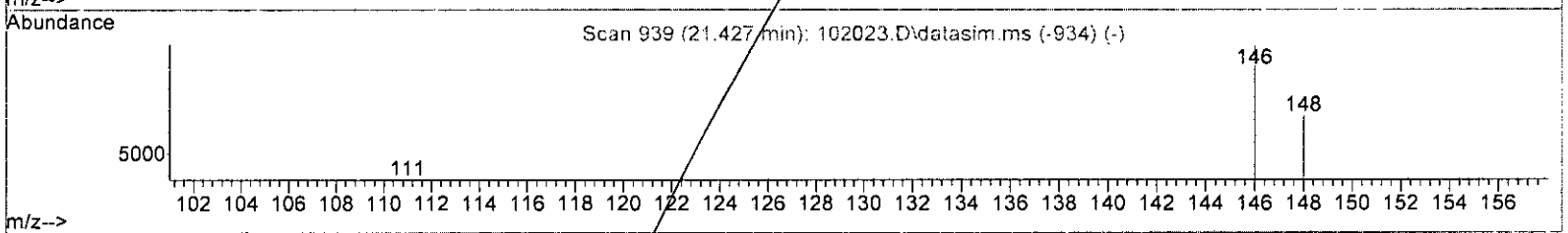
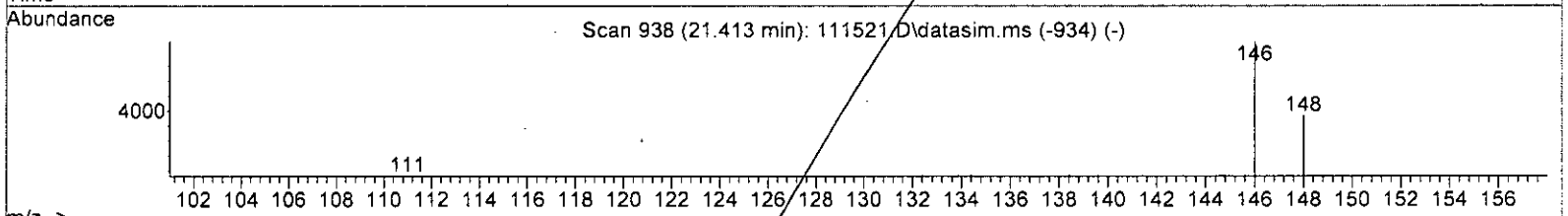
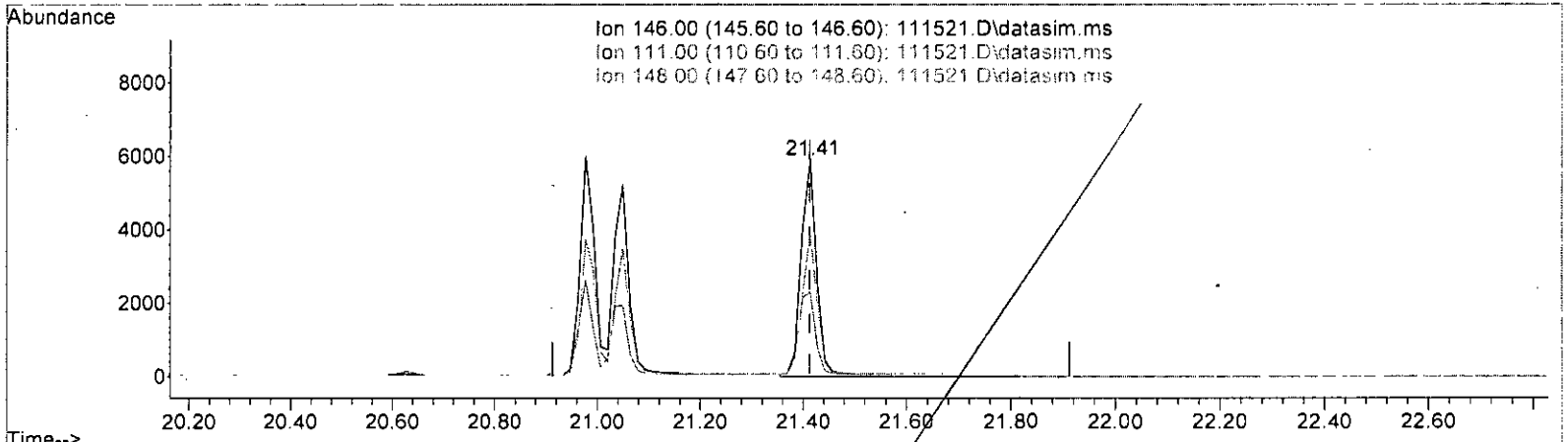
(51) 1,1,2-Trichloroethane (TMP)		
15.996min (-0.000)	0.459 ppbv m	
response	6878	
Ion	Exp%	Act%
83.00	100.00	100.00
97.00	81.80	91.39
85.00	60.50	62.89
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111521.D\data.ms

(75) 1,2-Dichlorobenzene (TMP)

21.413min ( 0.000) 0.517 ppbv

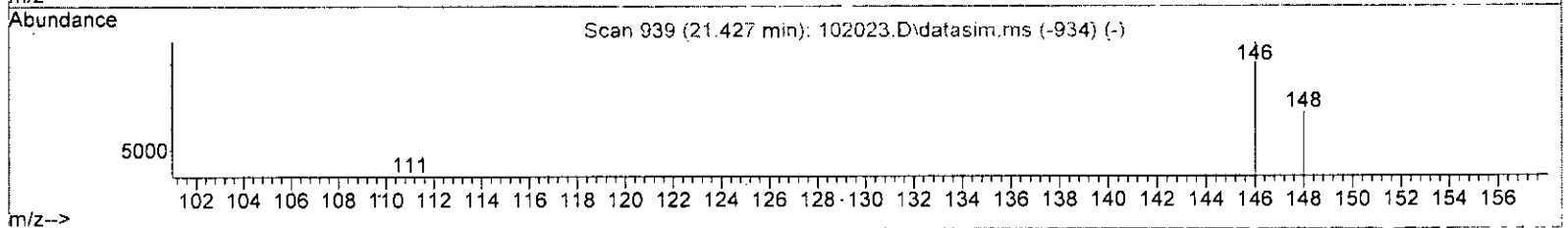
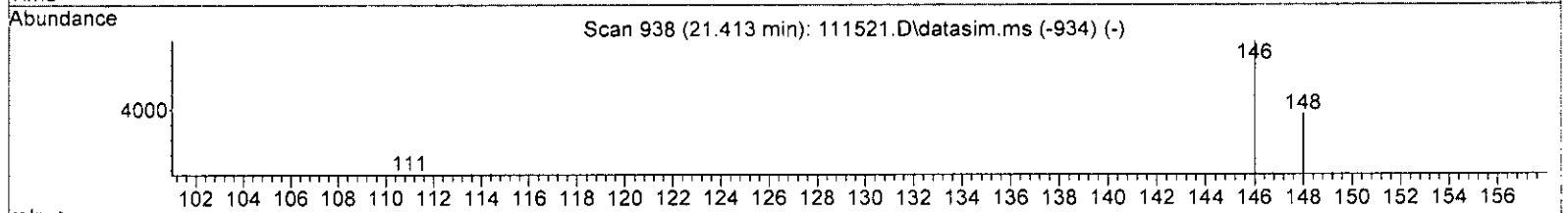
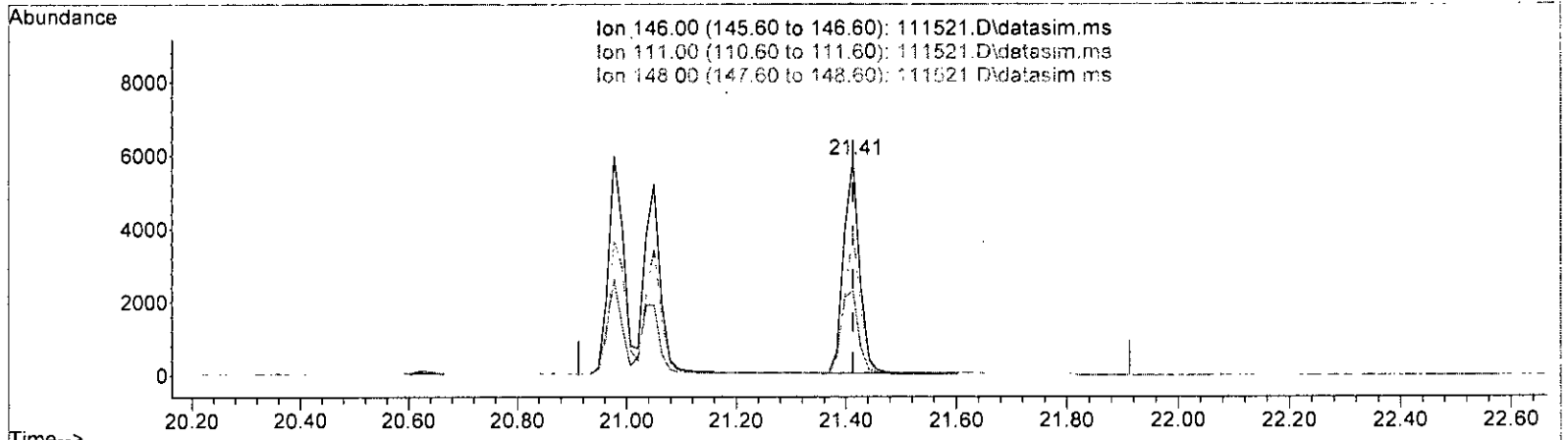
response	13096	
Ion	Exp%	Act%
146.00	100.00	100.00
111.00	42.90	39.23
148.00	63.20	66.49
0.00	0.00	0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111521.D\data.ms

(75) 1,2-Dichlorobenzene (TMP)			
21.413min	( 0.000)	0.468 ppbv	m
response	11857		
Ion	Exp%	Act%	
146.00	100.00	100.00	
111.00	42.90	39.23	
148.00	63.20	66.49	
0.00	0.00	0.00	

*Handwritten signature*



Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	62780	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	282561	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	247110	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	167120	9.759	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	97.60%	
Target Compounds						
						Qvalue
2) Propene	3.41	41	4242	0.427	ppbv	76
3) Dichlorodifluoromethane	3.49	85	12088	0.467	ppbv	95
4] Chloromethane	3.73	50	6232m	0.527	ppbv	
5) F-114	3.84	85	13815	0.522	ppbv	90
6] Vinyl chloride	4.05	62	5341	0.460	ppbv	100
7] 1,3-Butadiene	4.25	54	3388	0.444	ppbv #	88
8) Butane	4.36	43	6502	0.474	ppbv #	80
9) Bromomethane	4.60	94	5827	0.502	ppbv	97
10] Chloroethane	4.84	64	2091m	0.509	ppbv	
11] Vinyl bromide	5.30	106	4701m	0.465	ppbv	
12) Ethanol	4.96	45	2279	0.547	ppbv	84
13] Acrolein	5.38	56	2135m	0.467	ppbv	
14) Pentane	6.25	43	7908	0.512	ppbv	95
15) Trichlorofluoromethane	5.82	101	14988	0.499	ppbv	89
16) Acetone	5.57	58	2857	0.641	ppbv #	40
17) 2-Propanol	5.78	45	9520	0.490	ppbv	89
18] 1,1-Dichloroethene	6.63	96	4794	0.464	ppbv	95
19] trans-1,2-Dichloroethene	8.07	96	4787	0.477	ppbv	99
20) Methylene chloride	6.78	84	4617	0.497	ppbv	93
21) t-Butyl alcohol (TBA)	6.57	59	8061	0.481	ppbv #	75
22) 3-Chloropropene	6.94	41	5877	0.455	ppbv #	78
23) CFC-113	7.15	101	10901	0.500	ppbv	96
24) Carbon disulfide	7.23	76	14652	0.452	ppbv	90
25) Methyl t-butyl ether (...)	8.43	73	11016	0.511	ppbv	85
26) Vinyl acetate	8.54	43	9209m	0.386	ppbv	
27] 1,1-Dichloroethane	8.36	63	9817	0.468	ppbv	100
28] cis-1,2-Dichloroethene	9.62	96	4957	0.467	ppbv	88
29) Hexane	10.01	57	5959	0.459	ppbv	99
30] Chloroform	10.08	83	11798	0.479	ppbv	96
31) Ethyl acetate	9.92	43	10717m	0.451	ppbv	
32) Tetrahydrofuran	10.76	42	5217	0.459	ppbv	94
33) 2-Butanone (MEK)	8.88	72	1917	0.493	ppbv #	50
34] 1,2-Dichloroethane (EDC)	11.34	62	7997	0.489	ppbv	98
35] 1,1,1-Trichloroethane	11.83	97	9916m	0.472	ppbv	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37] Benzene	12.61	78	16358	0.444	ppbv	96
38) Cyclohexane	13.07	84	4321m	0.503	ppbv	
40] 1,2-Dichloropropane	13.80	63	7586	0.496	ppbv	99

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

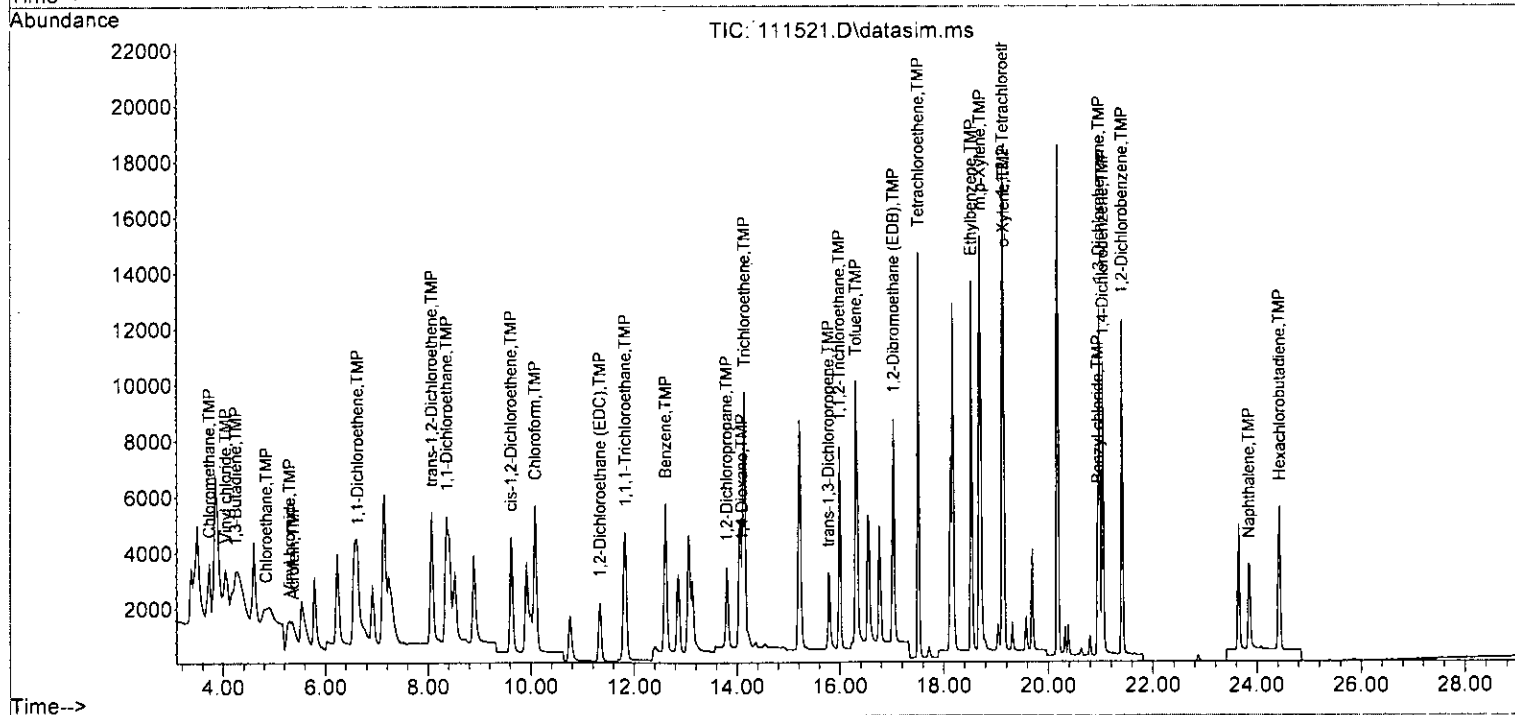
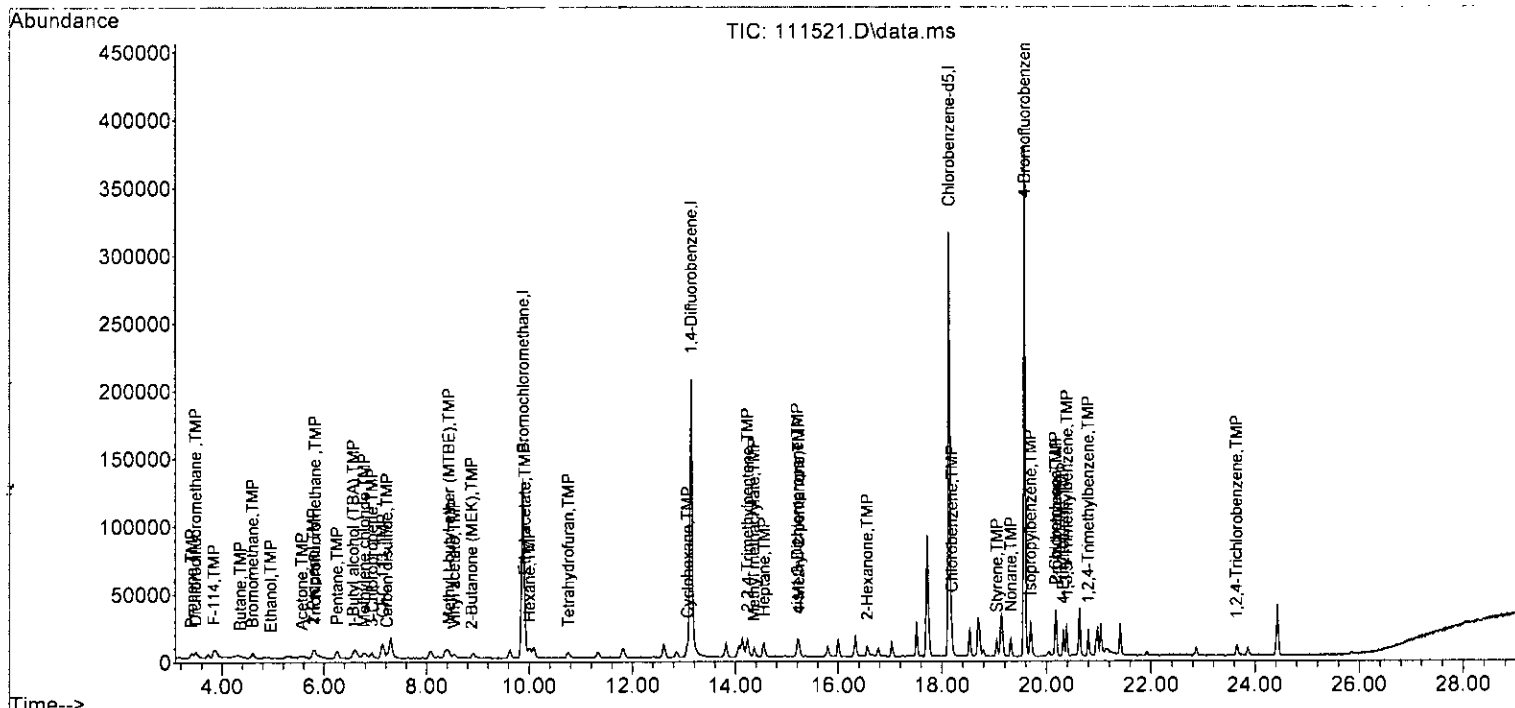
Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T01SDC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	3307	0.508	ppbv	97
42) 2,2,4-Trimethylpentane	14.24	57	23406	0.518	ppbv #	89
43) Methyl methacrylate	14.36	41	6480	0.473	ppbv	93
44) Heptane	14.56	43	8800	0.469	ppbv	94
45) Bromodichloromethane	0.00		0	N.D.	d	
46] Trichloroethene	14.14	95	8035	0.479	ppbv	96
47) cis-1,3-Dichloropropene	15.20	75	8156	0.482	ppbv	94
48) 4-Methyl-2-pentanone	15.23	100	530	0.424	ppbv #	48
49] trans-1,3-Dichloropropene	15.78	75	7021	0.441	ppbv	83
50] Toluene	16.31	92	9760m	0.489	ppbv	
51] 1,1,2-Trichloroethane	16.00	83	6878m	0.459	ppbv	
52) 2-Hexanone	16.56	43	10310	0.431	ppbv	96
53] Tetrachloroethene	17.52	164	7301	0.528	ppbv	90
54) Dibromochloromethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	11473	0.521	ppbv	96
57) Chlorobenzene	18.19	112	14186	0.521	ppbv	96
58] Ethylbenzene	18.53	91	20591	0.457	ppbv	97
59] 1,1,2,2-Tetrachloroethane	19.13	83	15858	0.471	ppbv	93
60) Nonane	19.32	43	8158	0.337	ppbv #	94
61) Isopropylbenzene	19.70	105	19999	0.452	ppbv	97
62) 2-Chlorotoluene	20.17	126	4873	0.440	ppbv	78
63) Propylbenzene	20.19	91	35474	0.436	ppbv	98
64) 4-Ethyltoluene	20.32	105	14983	0.376	ppbv	99
65] m,p-Xylene	18.70	106	13752	0.879	ppbv	95
66] o-Xylene	19.15	106	6766	0.445	ppbv	99
67) Styrene	19.05	104	9668	0.478	ppbv	94
68) Bromoform	0.00		0	N.D.	d	
70] Benzyl chloride	20.95	91	8022	0.289	ppbv	97
71) 1,3,5-Trimethylbenzene	20.39	105	14022	0.391	ppbv	88
72) 1,2,4-Trimethylbenzene	20.80	105	11406	0.407	ppbv	98
73] 1,3-Dichlorobenzene	20.98	146	11791	0.472	ppbv	99
74] 1,4-Dichlorobenzene	21.05	146	10042	0.429	ppbv	97
75] 1,2-Dichlorobenzene	21.41	146	11857m	0.468	ppbv	
76) 1,2,4-Trichlorobenzene	23.64	180	4328	0.305	ppbv	99
77] Naphthalene	23.84	128	8380	0.490	ppbv	97
78] Hexachlorobutadiene	24.44	225	12265	0.475	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	0.500	0.427	14.6	100	0.00
3 TMP Dichlorodifluoromethane	0.500	0.467	6.6	107	0.00
4 TMP Chloromethane	0.500	0.527	-5.4	101	0.00
5 TMP F-114	0.500	0.522	-4.4	101	-0.04
6 TMP Vinyl chloride	0.500	0.460	8.0	100	-0.04
7 TMP 1,3-Butadiene	0.500	0.444	11.2	101	-0.04
8 TMP Butane	0.500	0.474	5.2	100	0.04
9 TMP Bromomethane	0.500	0.502	-0.4	100	0.00
10 TMP Chloroethane	0.500	0.509	-1.8	105	0.00
11 TMP Vinyl bromide	0.500	0.465	7.0	91	-0.02
12 TMP Ethanol	0.500	0.547	-9.4	100	0.00
13 TMP Acrolein	0.500	0.467	6.6	98	-0.04
14 TMP Pentane	0.500	0.512	-2.4	100	0.00
15 TMP Trichlorofluoromethane	0.500	0.499	0.2	100	-0.02
16 TMP Acetone	0.500	0.641	-28.2	100	0.00
17 TMP 2-Propanol	0.500	0.490	2.0	100	0.00
18 TMP 1,1-Dichloroethene	0.500	0.464	7.2	100	0.00
19 TMP trans-1,2-Dichloroethene	0.500	0.477	4.6	100	-0.03
20 TMP Methylene chloride	0.500	0.497	0.6	100	-0.03
21 TMP t-Butyl alcohol (TBA)	0.500	0.481	3.8	100	0.00
22 TMP 3-Chloropropene	0.500	0.455	9.0	100	0.00
23 TMP CFC-113	0.500	0.500	0.0	100	0.00
24 TMP Carbon disulfide	0.500	0.452	9.6	100	-0.05
25 TMP Methyl t-butyl ether (MTBE)	0.500	0.511	-2.2	100	0.00
26 TMP Vinyl acetate	0.500	0.386	22.8	100	0.00
27 TMP 1,1-Dichloroethane	0.500	0.468	6.4	100	0.00
28 TMP cis-1,2-Dichloroethene	0.500	0.467	6.6	100	-0.02
29 TMP Hexane	0.500	0.459	8.2	100	0.00
30 TMP Chloroform	0.500	0.479	4.2	100	-0.02
31 TMP Ethyl acetate	0.500	0.451	9.8	100	0.00
32 TMP Tetrahydrofuran	0.500	0.459	8.2	100	0.00
33 TMP 2-Butanone (MEK)	0.500	0.493	1.4	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	0.500	0.489	2.2	106	0.00
35 TMP 1,1,1-Trichloroethane	0.500	0.472	5.6	104	0.00
36 TMP Carbon tetrachloride	0.500	0.000	100.0#	0	-12.86#
37 TMP Benzene	0.500	0.444	11.2	100	0.00
38 TMP Cyclohexane	0.500	0.503	-0.6	108	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.500	0.496	0.8	104	0.00
41 TMP 1,4-Dioxane	0.500	0.508	-1.6	100	0.00
42 TMP 2,2,4-Trimethylpentane	0.500	0.518	-3.6	100	0.00
43 TMP Methyl methacrylate	0.500	0.473	5.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-1968  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	0.500	0.469	6.2	100	0.00
45 TMP Bromodichloromethane	0.500	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	0.500	0.479	4.2	100	0.00
47 TMP cis-1,3-Dichloropropene	0.500	0.482	3.6	100	0.00
48 TMP 4-Methyl-2-pentanone	0.500	0.424	15.2	100	0.00
49 TMP trans-1,3-Dichloropropene	0.500	0.441	11.8	100	0.00
50 TMP Toluene	0.500	0.489	2.2	102	0.00
51 TMP 1,1,2-Trichloroethane	0.500	0.459	8.2	99	0.00
52 TMP 2-Hexanone	0.500	0.431	13.8	100	0.00
53 TMP Tetrachloroethene	0.500	0.528	-5.6	100	0.00
54 TMP Dibromochloromethane	0.500	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.500	0.521	-4.2	108	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	0.500	0.521	-4.2	100	0.00
58 TMP Ethylbenzene	0.500	0.457	8.6	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	0.500	0.471	5.8	100	0.00
60 TMP Nonane	0.500	0.337	32.6#	100	0.02
61 TMP Isopropylbenzene	0.500	0.452	9.6	100	0.00
62 TMP 2-Chlorotoluene	0.500	0.440	12.0	100	0.00
63 TMP Propylbenzene	0.500	0.436	12.8	100	0.00
64 TMP 4-Ethyltoluene	0.500	0.376	24.8	100	0.00
65 TMP m,p-Xylene	1.000	0.879	12.1	100	0.00
66 TMP o-Xylene	0.500	0.445	11.0	100	0.00
67 TMP Styrene	0.500	0.478	4.4	100	0.00
68 TMP Bromoform	0.500	0.000	100.0#	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.759	2.4	100	0.00
70 TMP Benzyl chloride	0.500	0.289	42.2#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	0.500	0.391	21.8	100	0.00
72 TMP 1,2,4-Trimethylbenzene	0.500	0.407	18.6	100	0.00
73 TMP 1,3-Dichlorobenzene	0.500	0.472	5.6	100	0.00
74 TMP 1,4-Dichlorobenzene	0.500	0.429	14.2	100	0.00
75 TMP 1,2-Dichlorobenzene	0.500	0.468	6.4	102	0.00
76 TMP 1,2,4-Trichlorobenzene	0.500	0.305	39.0#	100	0.00
77 TMP Naphthalene	0.500	0.490	2.0	100	0.00
78 TMP Hexachlorobutadiene	0.500	0.475	5.0	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.351	13.2	100	0.00
3 TMP Dichlorodifluoromethane	4.123	3.851	6.6	107	0.00
4 TMP Chloromethane	1.882	1.985	-5.5	101	0.00
5 TMP F-114	4.217	4.401	-4.4	101	-0.04
6 TMP Vinyl chloride	1.851	1.701	8.1	100	-0.04
7 TMP 1,3-Butadiene	1.216	1.079	11.3	101	-0.04
8 TMP Butane	2.183	2.071	5.1	100	0.04
9 TMP Bromomethane	1.847	1.856	-0.5	100	0.00
10 TMP Chloroethane	0.655	0.666	-1.7	105	0.00
11 TMP Vinyl bromide	1.609	1.498	6.9	91	-0.02
12 TMP Ethanol	0.663	0.726	-9.5	100	0.00
13 TMP Acrolein	0.729	0.680	6.7	98	-0.04
14 TMP Pentane	2.461	2.519	-2.4	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.775	0.1	100	-0.02
16 TMP Acetone	0.710	0.910	-28.2	100	0.00
17 TMP 2-Propanol	3.096	3.033	2.0	100	0.00
18 TMP 1,1-Dichloroethene	1.645	1.527	7.2	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.525	4.6	100	-0.03
20 TMP Methylene chloride	1.479	1.471	0.5	100	-0.03
21 TMP t-Butyl alcohol (TBA)	2.668	2.568	3.7	100	0.00
22 TMP 3-Chloropropene	2.056	1.872	8.9	100	0.00
23 TMP CFC-113	3.469	3.473	-0.1	100	0.00
24 TMP Carbon disulfide	5.167	4.668	9.7	100	-0.05
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.509	-2.2	100	0.00
26 TMP Vinyl acetate	3.801	2.934	22.8	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.127	6.4	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.579	6.6	100	-0.02
29 TMP Hexane	2.068	1.898	8.2	100	0.00
30 TMP Chloroform	4.060	3.759	7.4	100	-0.02
31 TMP Ethyl acetate	3.789	3.414	9.9	100	0.00
32 TMP Tetrahydrofuran	1.809	1.662	8.1	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.611	1.3	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.548	5.2	106	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.159	5.5	104	0.00
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	5.211	8.4	100	0.00
38 TMP Cyclohexane	1.367	1.377	-0.7	108	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.537	0.7	104	0.00
41 TMP 1,4-Dioxane	0.230	0.234	-1.7	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.657	-3.7	100	0.00
43 TMP Methyl methacrylate	0.485	0.459	5.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111521.D  
 Acq On : 16 Nov 2022 7:07 am  
 Operator : bat  
 Sample : 0.5 ppbv 67-196B  
 Misc : T6, 125cc of 1ppbv  
 ALS Vial : 21 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:33:05 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.623	6.0	100	0.00
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.569	4.0	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.577	3.7	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.038	13.6	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.497	11.7	100	0.00
50 TMP Toluene	0.707	0.691	2.3	102	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.487	11.5	99	0.00
52 TMP 2-Hexanone	0.846	0.730	13.7	100	0.00
53 TMP Tetrachloroethene	0.490	0.517	-5.5	100	0.00
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.812	1.5	108	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.148	-4.3	100	0.00
58 TMP Ethylbenzene	1.968	1.667	15.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.283	8.0	100	0.00
60 TMP Nonane	0.981	0.660	32.7#	100	0.02
61 TMP Isopropylbenzene	1.792	1.619	9.7	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.394	12.1	100	0.00
63 TMP Propylbenzene	3.292	2.871	12.8	100	0.00
64 TMP 4-Ethyltoluene	1.611	1.213	24.7	100	0.00
65 TMP m,p-Xylene	0.633	0.557	12.0	100	0.00
66 TMP o-Xylene	0.615	0.548	10.9	100	0.00
67 TMP Styrene	0.819	0.782	4.5	100	0.00
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.676	2.5	100	0.00
70 TMP Benzyl chloride	0.987	0.649	34.2#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.135	21.7	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	0.923	26.0	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	0.954	5.7	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.813	14.1	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	0.960	6.3	102	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.350	44.1#	100	0.00
77 TMP Naphthalene	1.132	0.678	40.1#	100	0.00
78 TMP Hexachlorobutadiene	1.045	0.993	5.0	100	0.00

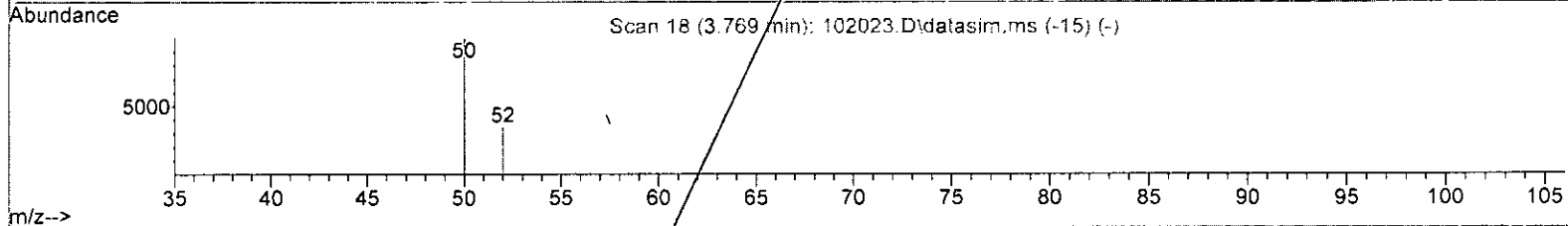
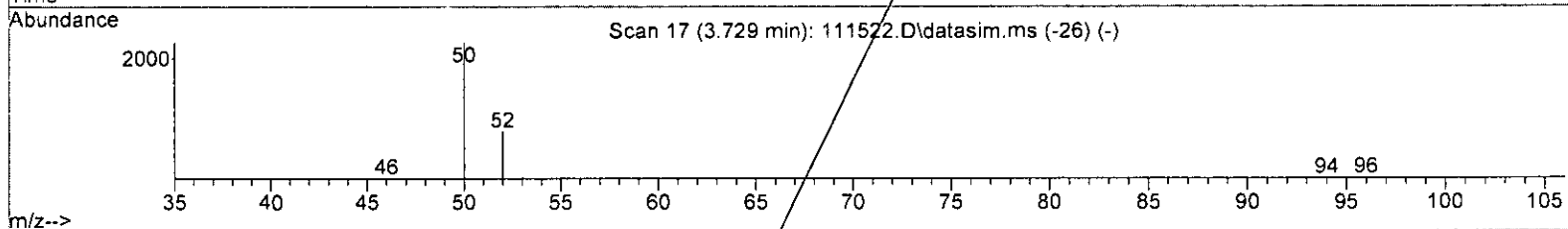
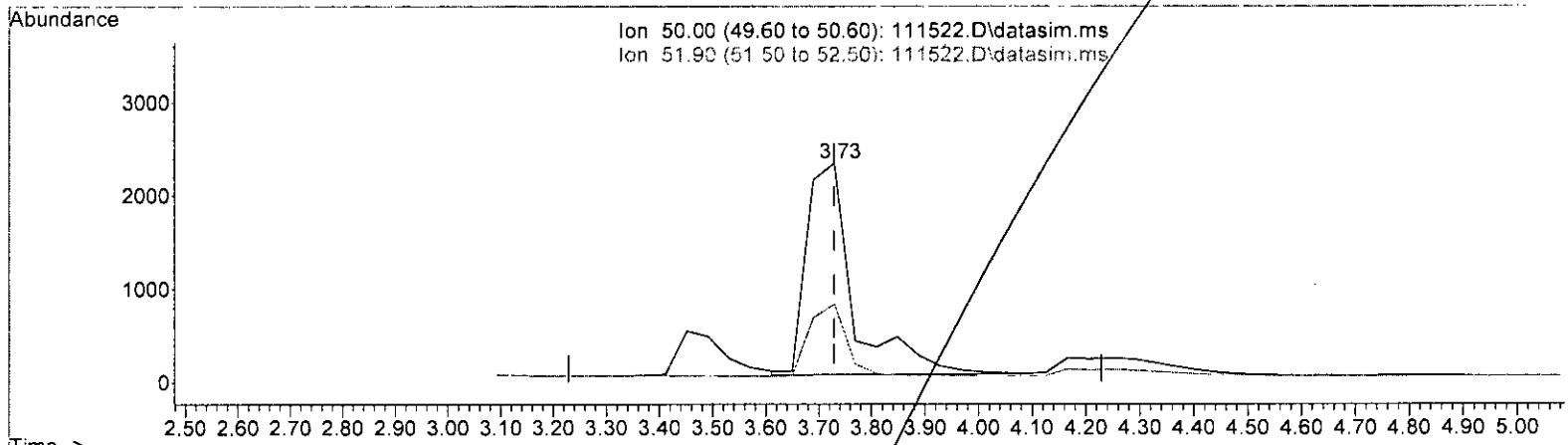
(#) = Out of Range

SPCC's out = 3 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(4) Chloromethane (TMP)		
3.729min (+ 0.000)	1.190 ppbv	
response	13862	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	34.16
0.00	0.00	0.00
0.00	0.00	0.00

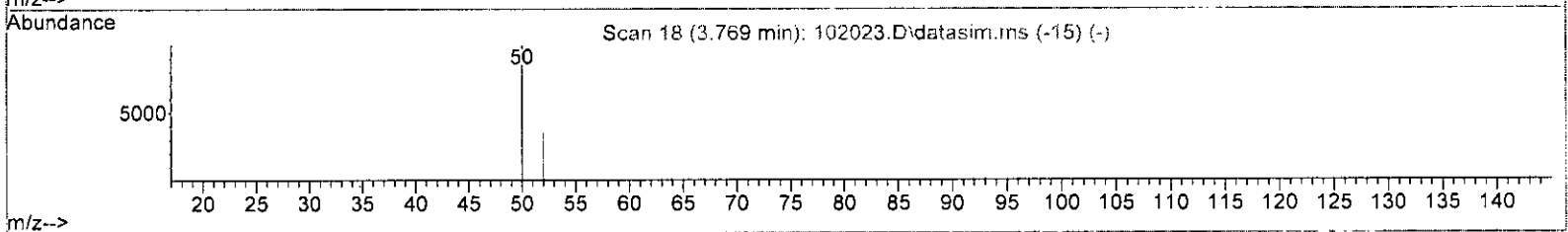
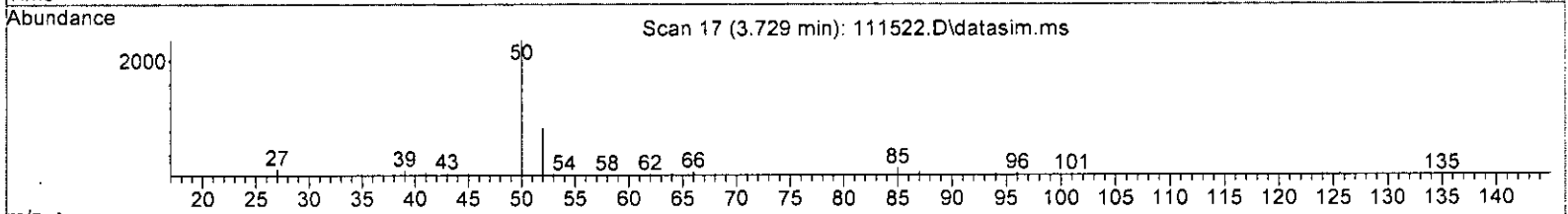
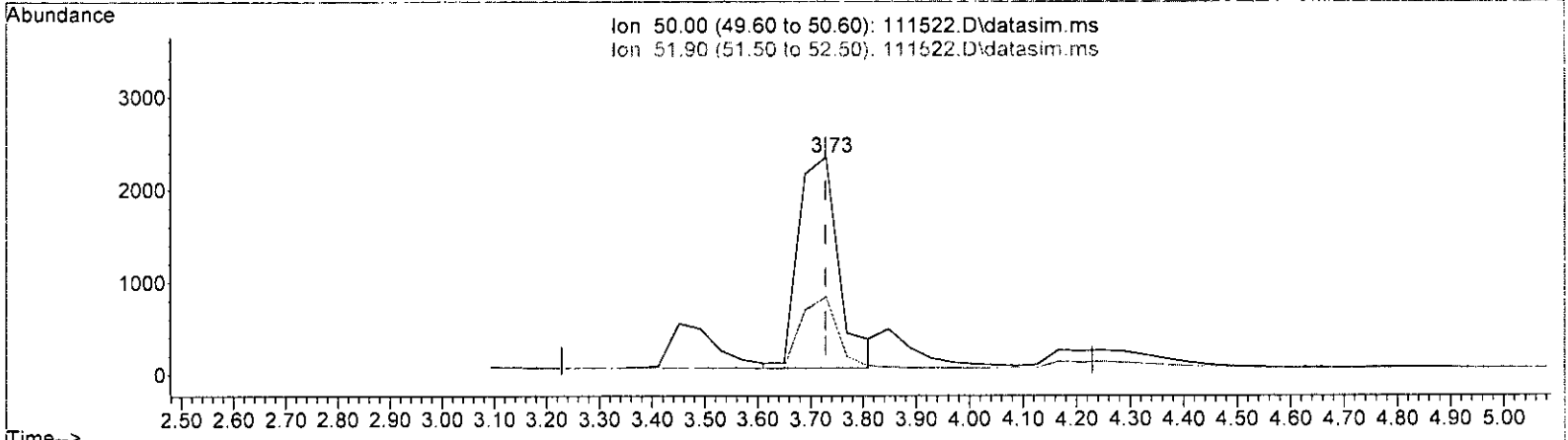
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

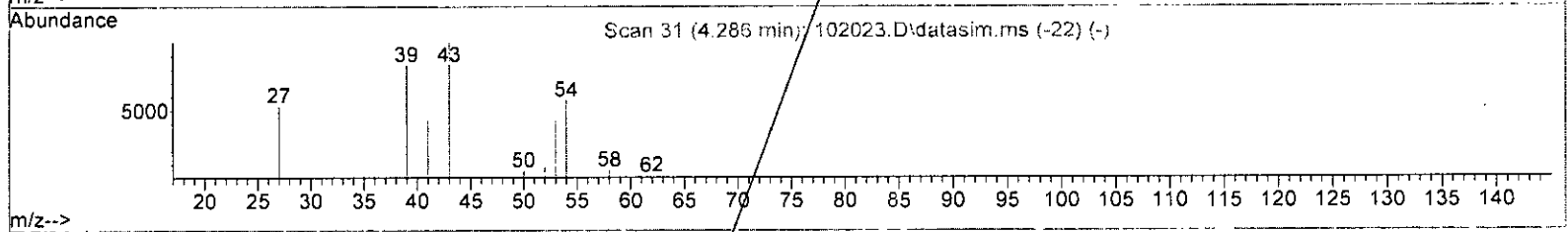
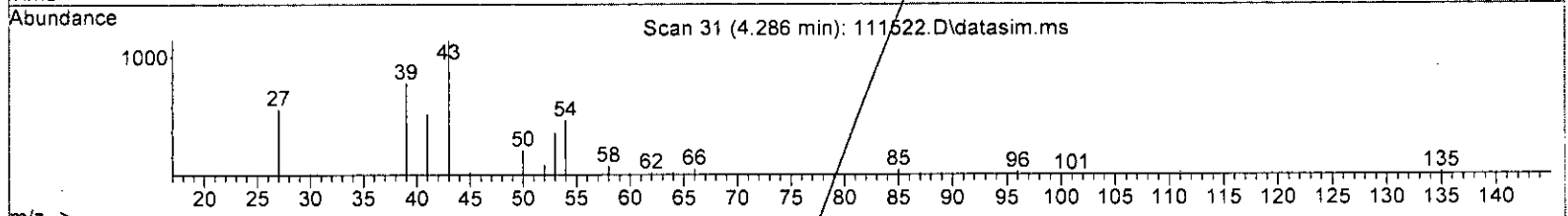
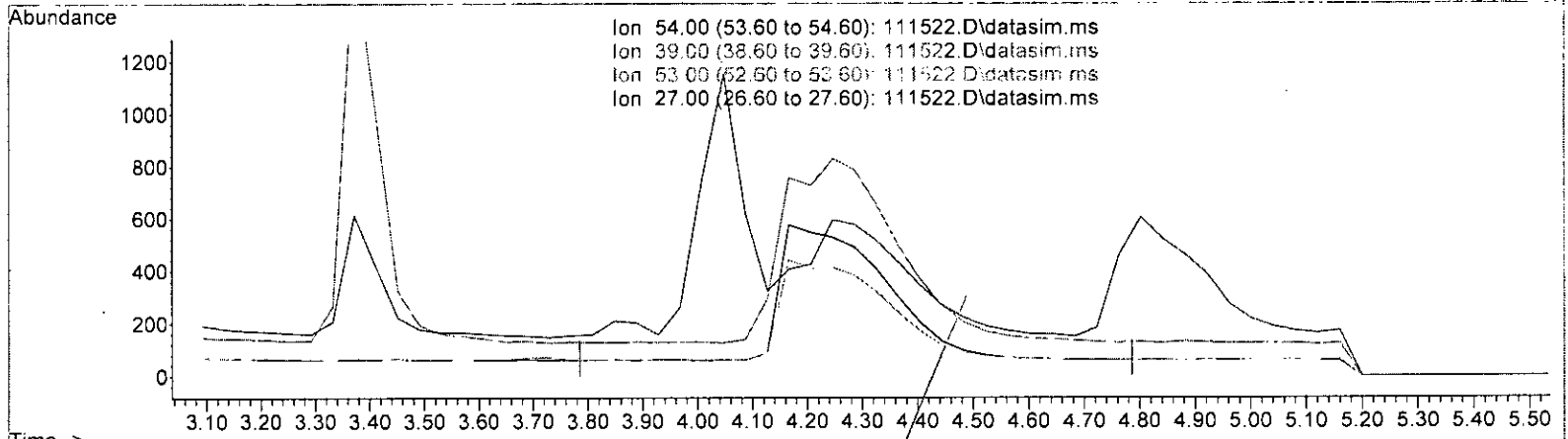
(4) Chloromethane (TMP)			
3.729min (+ 0.000)	1.051 ppbv m		
response	12248		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	35.74	
0.00	0.00	0.00	
0.00	0.00	0.00	

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

Ion	Exp%	Act%
54.00	100.00	0.00
39.00	127.60	0.00#
53.00	72.40	0.00#
27.00	0.00	0.00

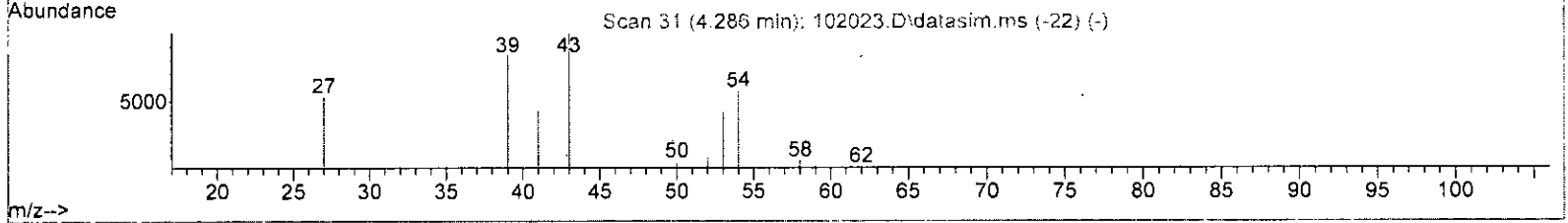
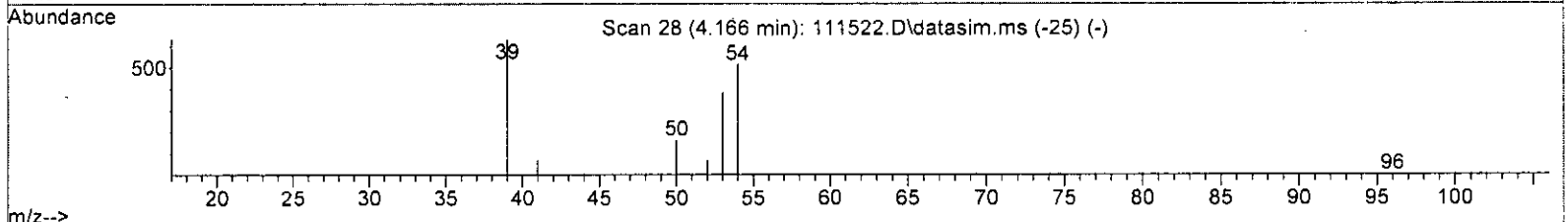
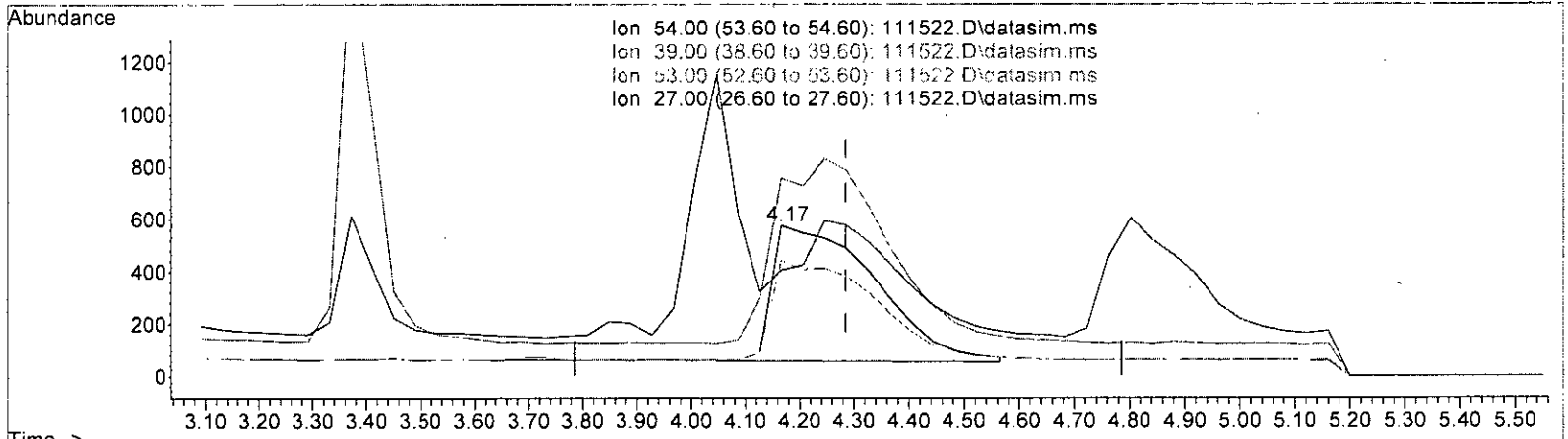
(7) 1,3-Butadiene (TMP)  
 4.286min (-4.286) 0.000 ppbv  
 response 0

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(7) 1,3-Butadiene (TMP)

4.166min (-0.120) 0.903 ppbv m

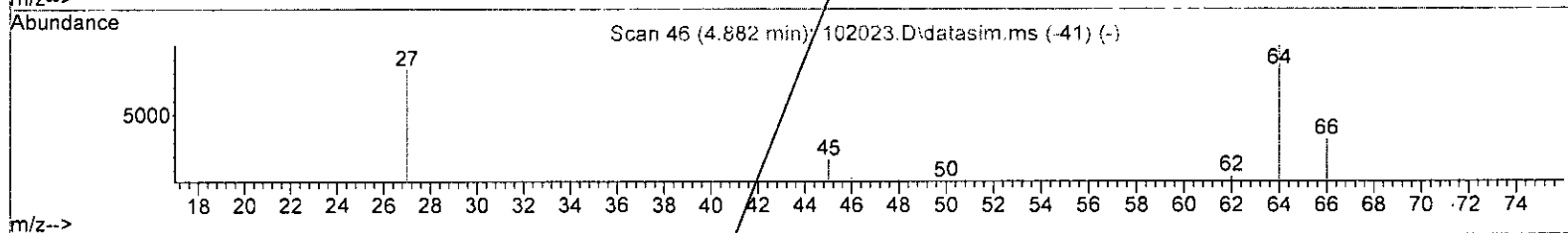
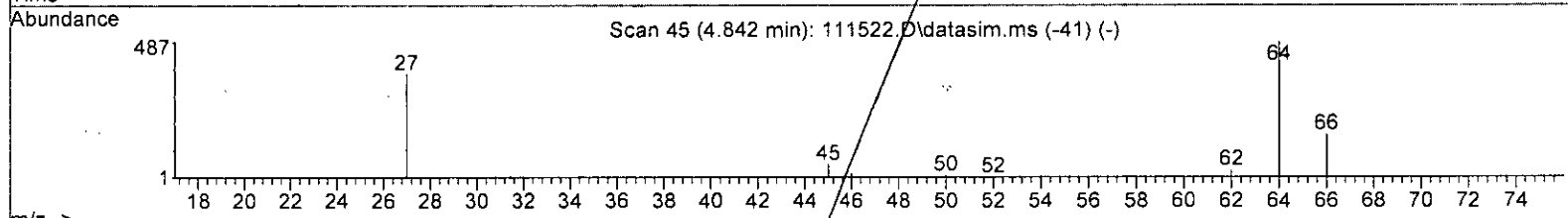
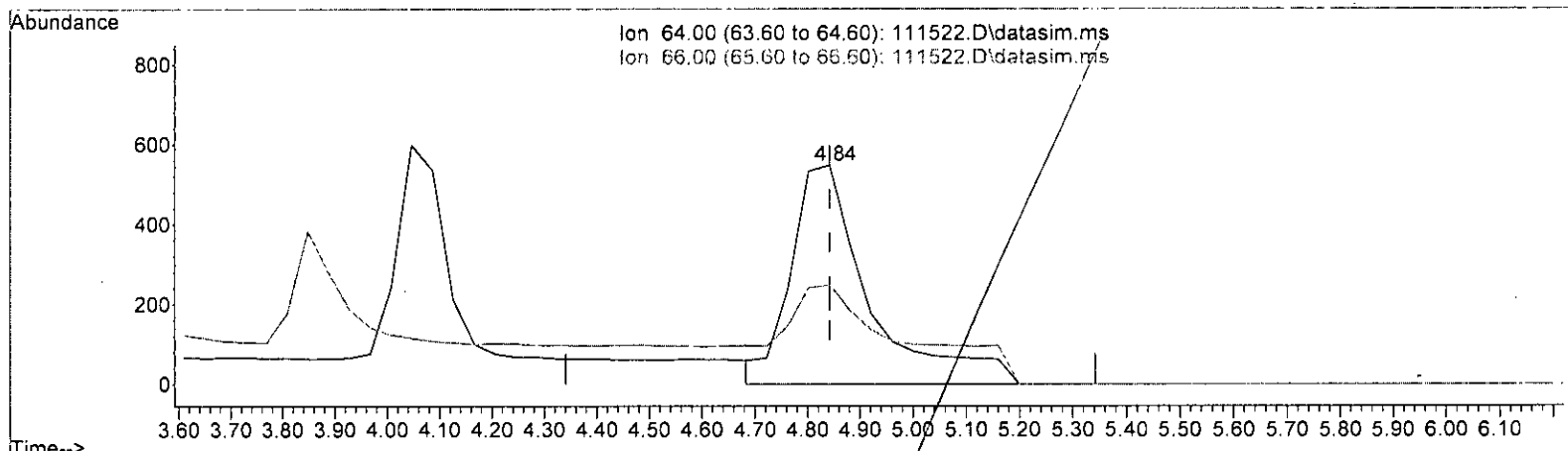
response	6793	
Ion	Exp%	Act%
54.00	100.00	100.00
39.00	127.60	131.48
53.00	72.40	76.70
27.00	0.00	70.61#

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

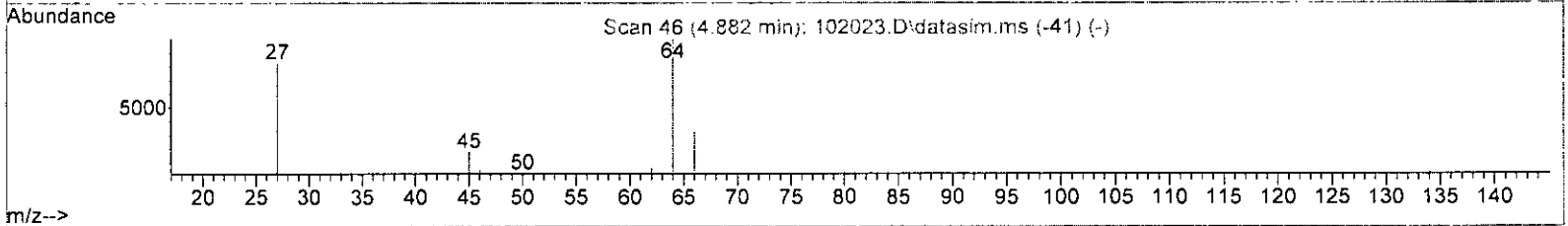
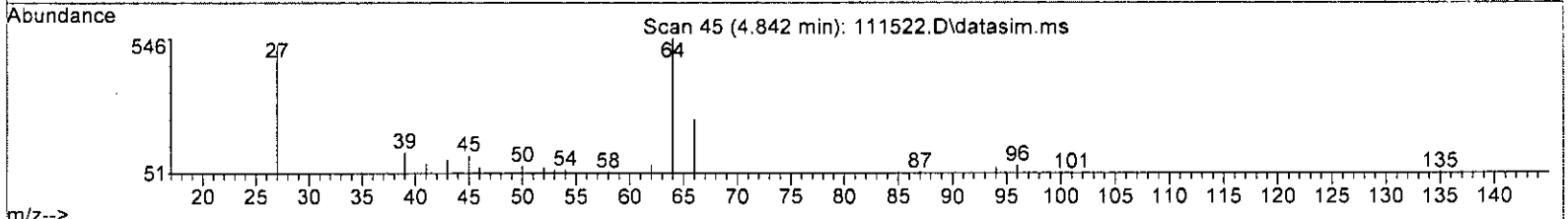
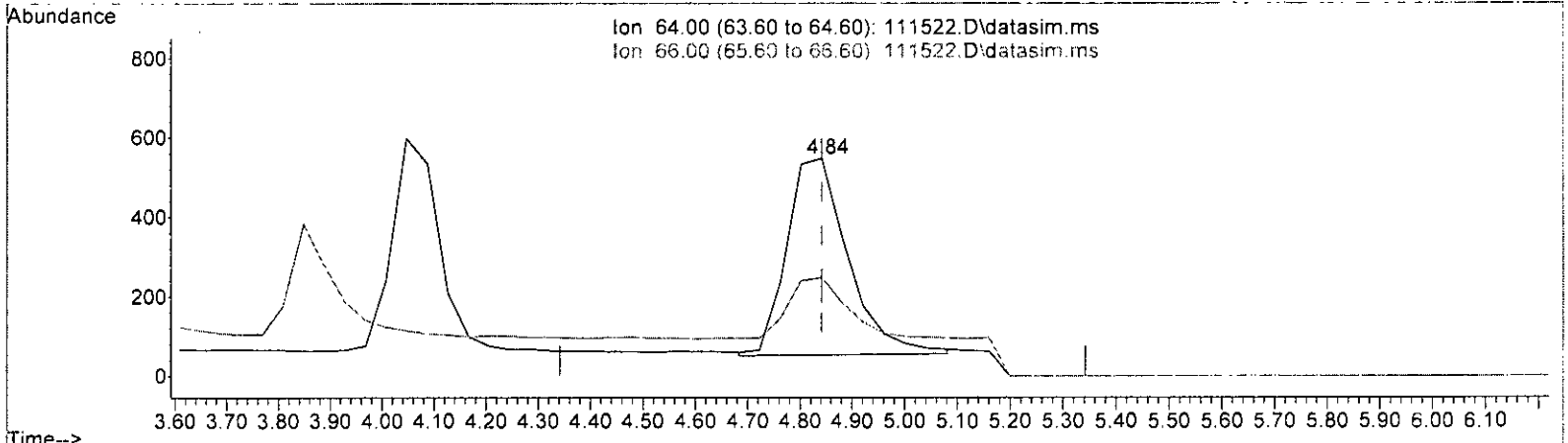
(10) Chloroethane (TMP)		
4.842min (-0.000)	1.336 ppbv	
response	5411	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	45.16
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(10) Chloroethane (TMP)  
 4.842min (-0.000) 0.997 ppbv m

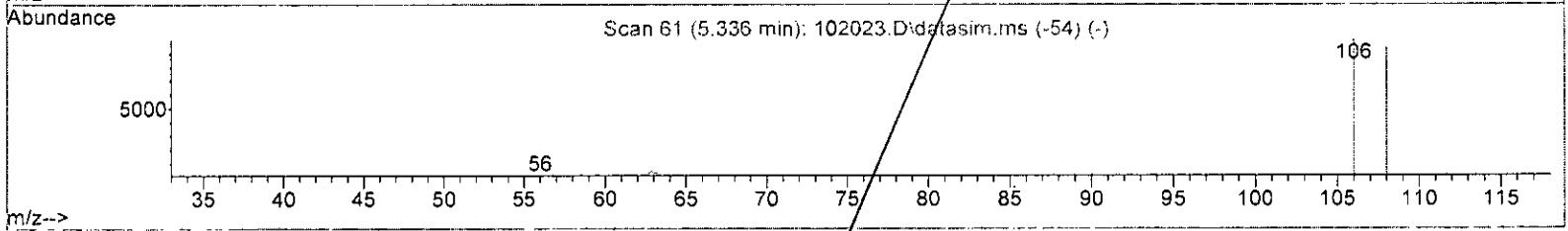
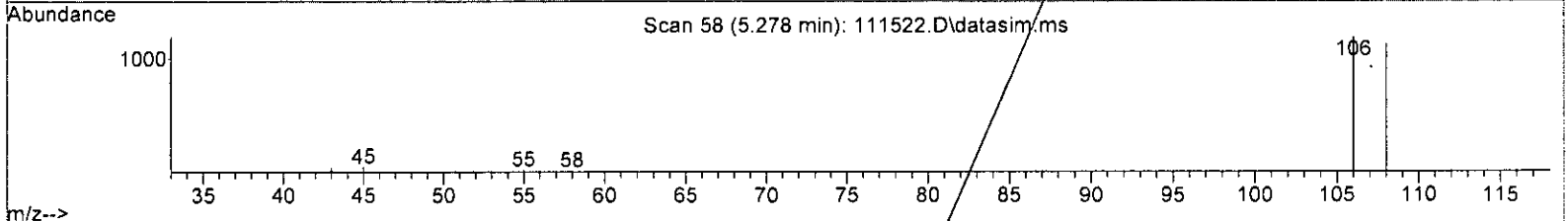
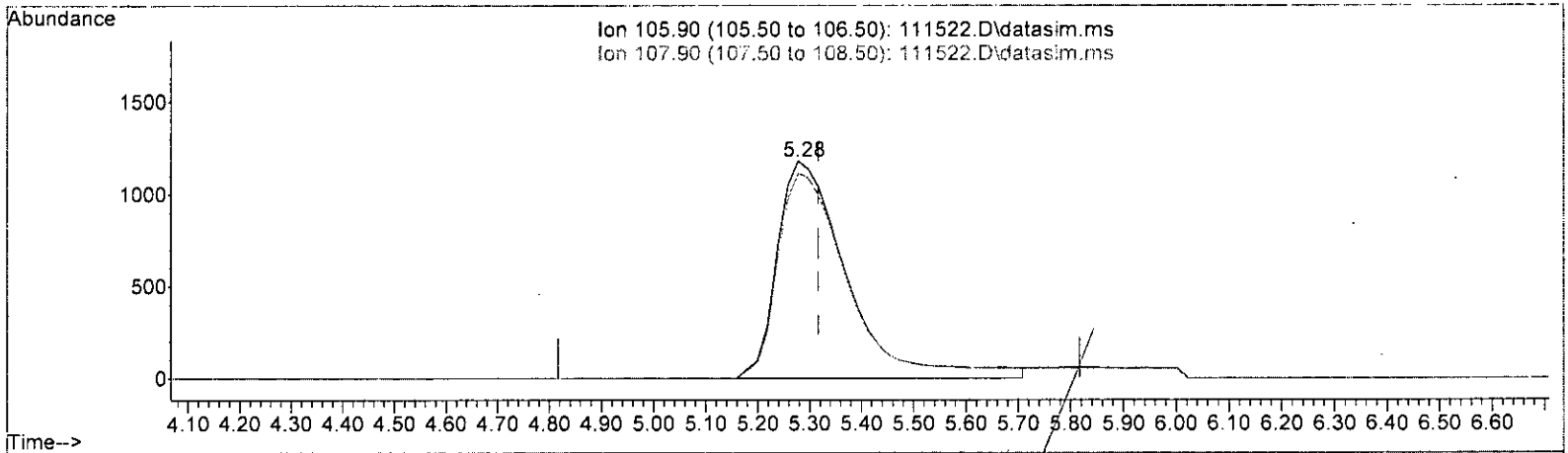
response	4039
Ion	Exp% Act%
64.00	100.00 100.00
66.00	31.80 45.16
0.00	0.00 0.00
0.00	0.00 0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(11) Vinyl bromide (TMP)

5.278min (-0.039) 1.183 ppbv

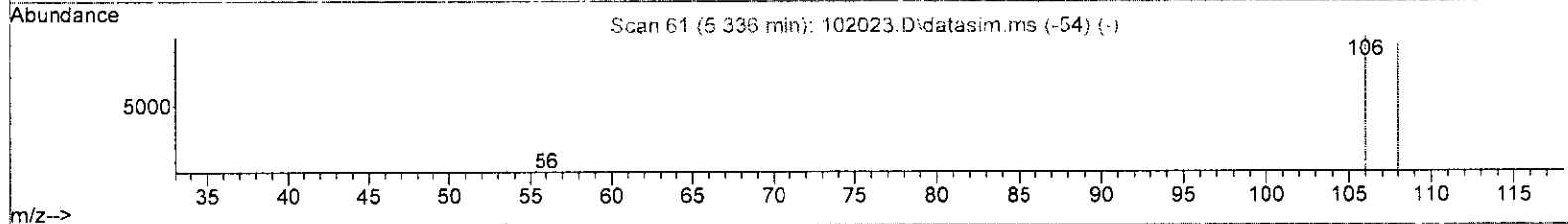
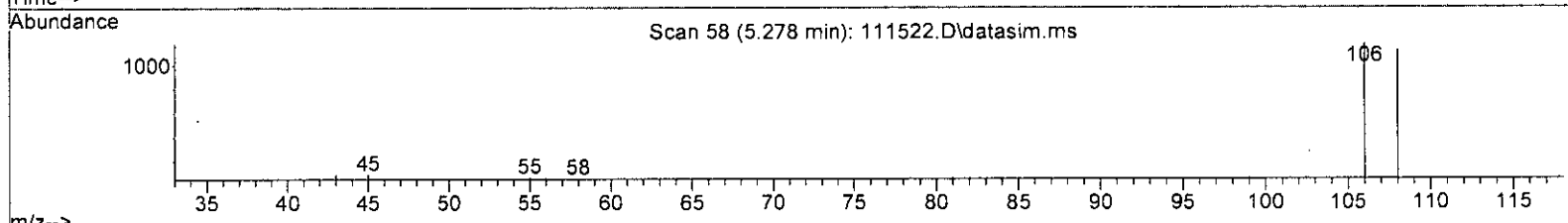
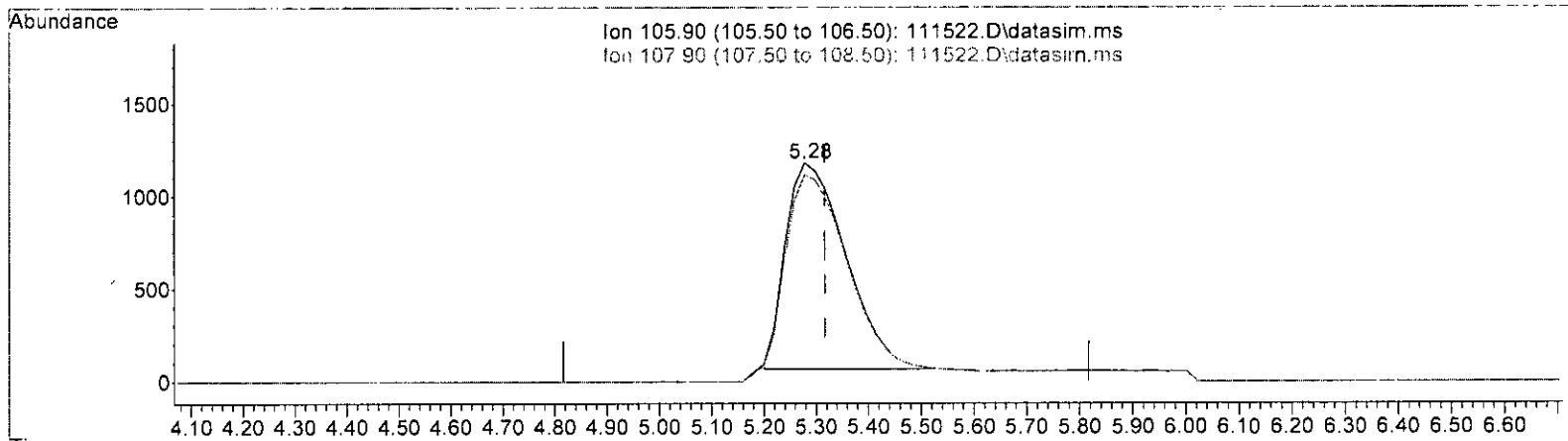
response	11781	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	95.81
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(11) Vinyl bromide (TMP)  
 5.278min (-0.039) 0.894 ppbv m

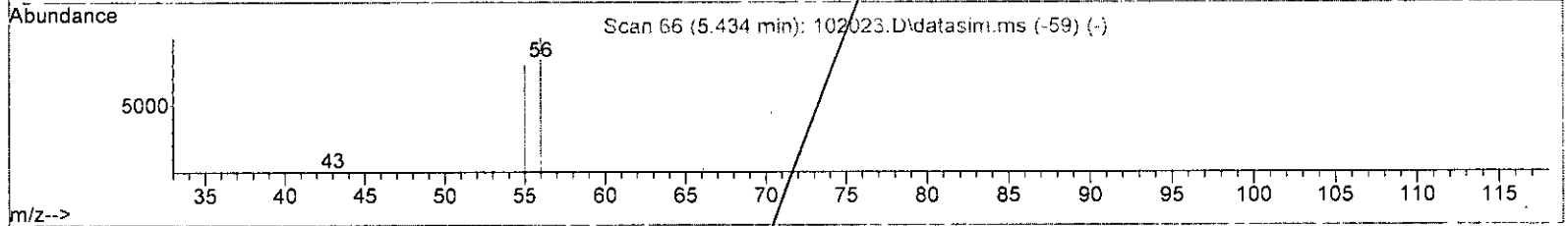
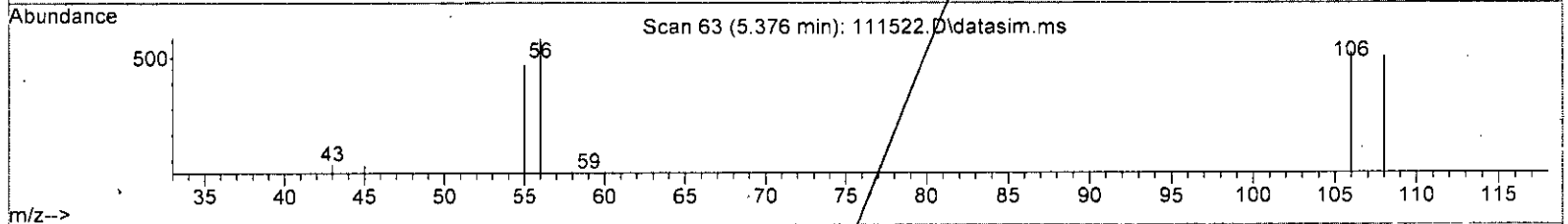
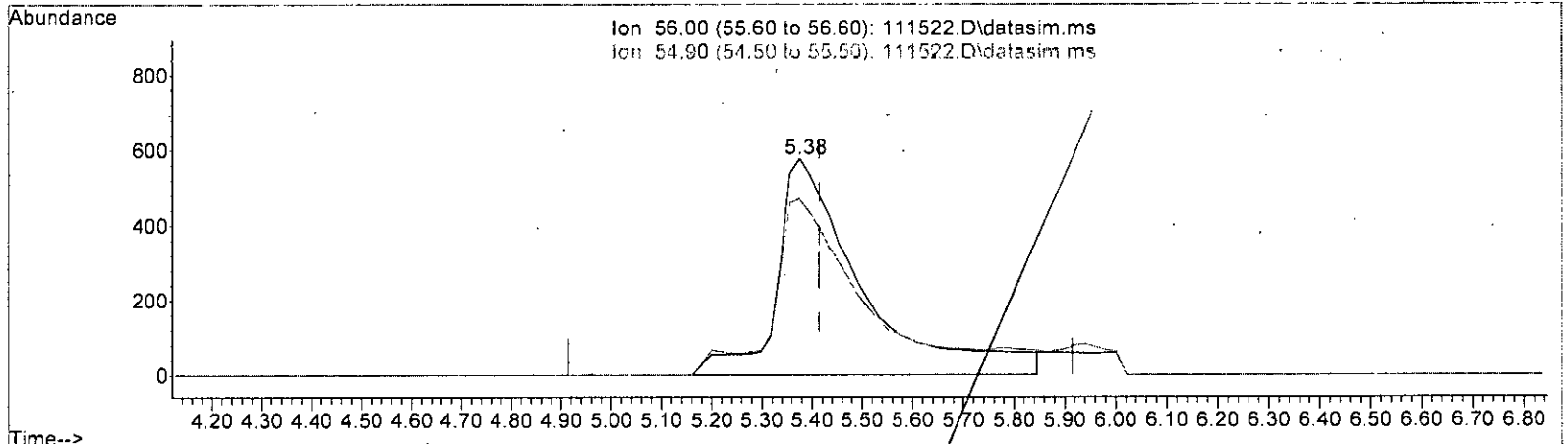
response	8908
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 126.71#
0.00	0.00 0.00
0.00	0.00 0.00

*W/ check*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(13) Acrolein (TMP)

5.376min (-0.039) 1.588 ppbv

response 7163

Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	61.29
0.00	0.00	0.00
0.00	0.00	0.00

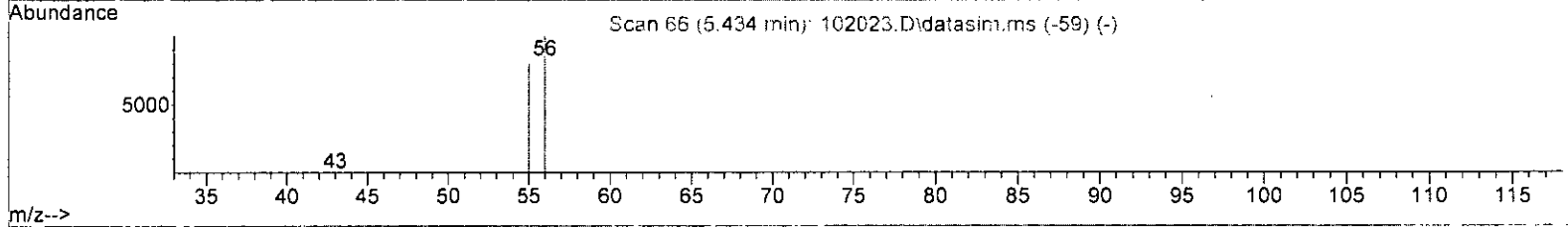
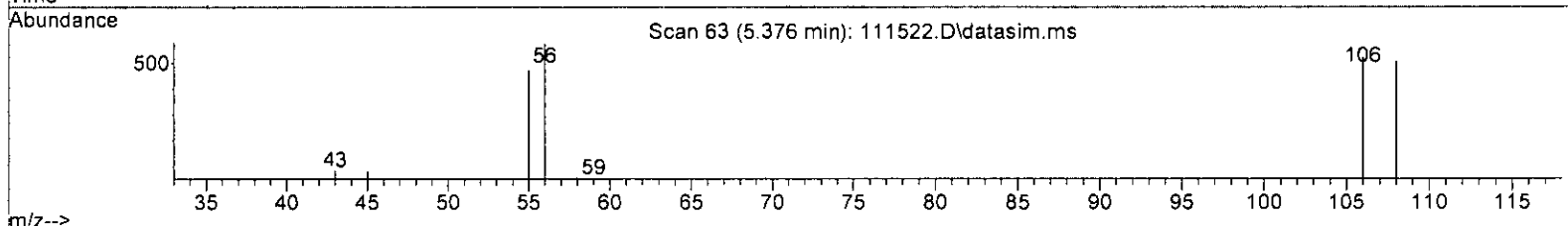
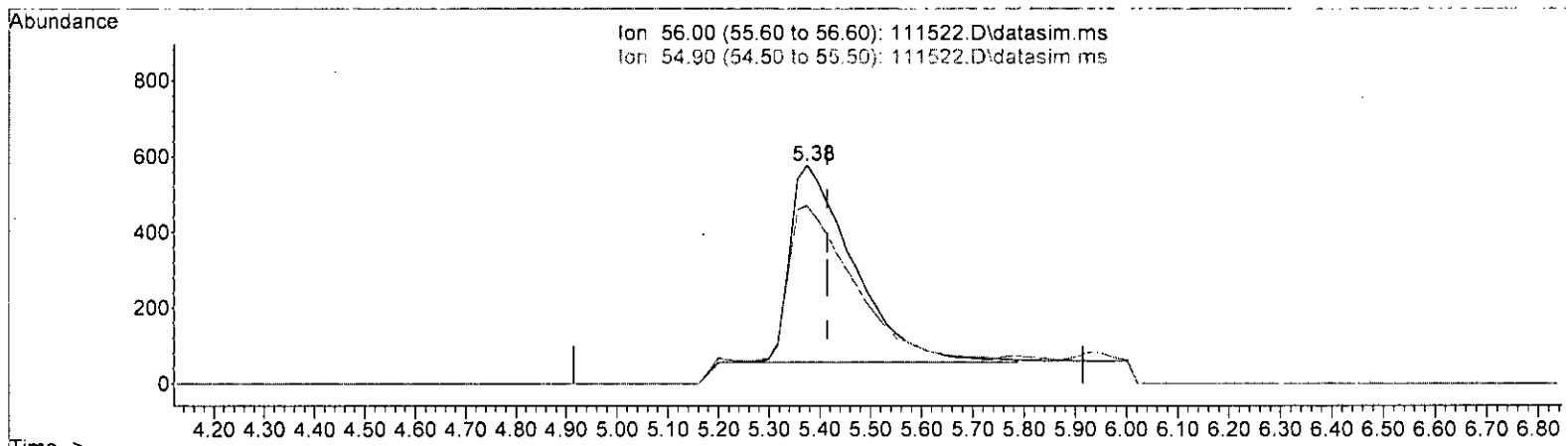
*Handwritten signature: W/Mark*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 AL5 Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(13) Acrolein (TMP)  
 5.376min (-0.039) 1.000 ppbv m

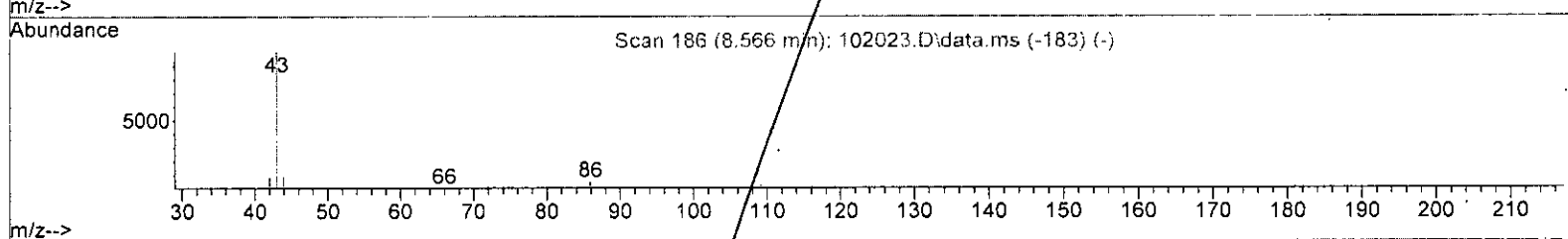
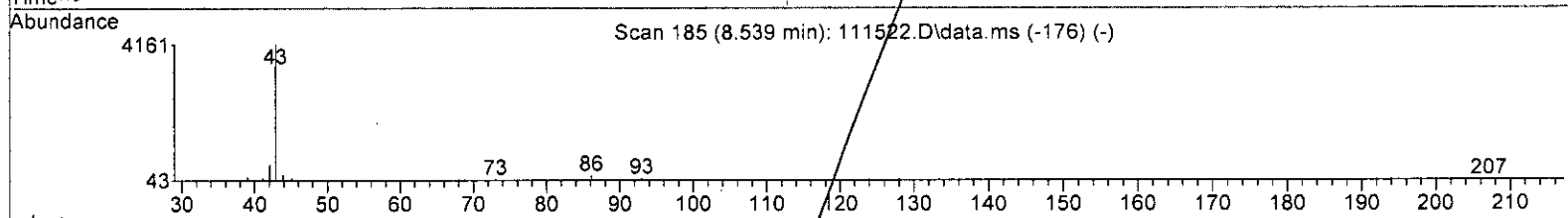
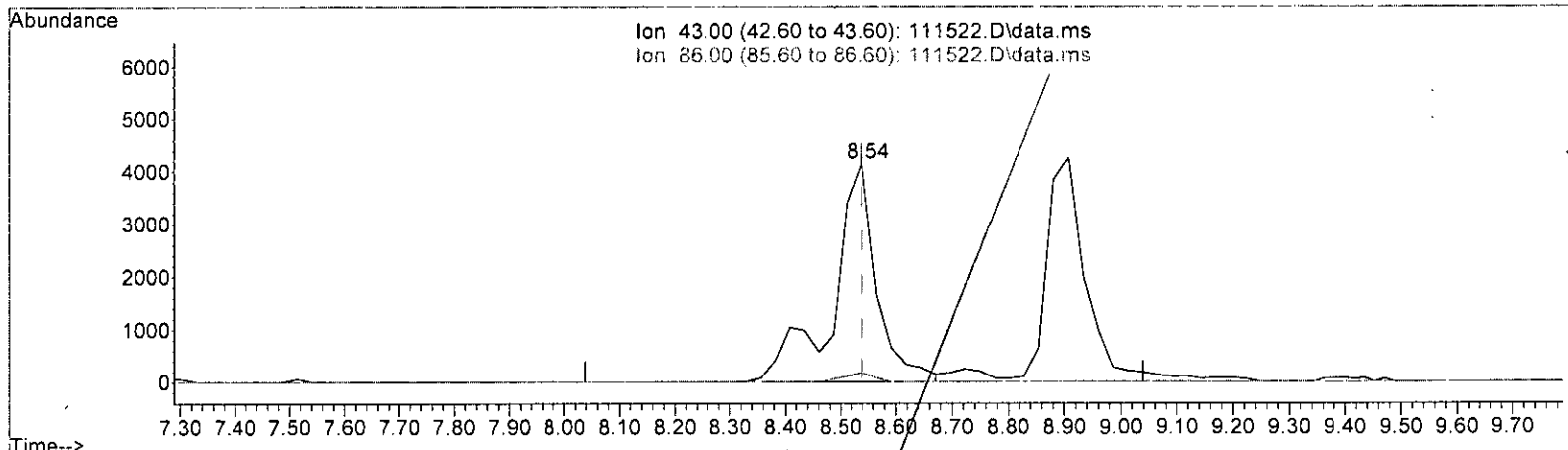
response	4512
Ion	Exp% Act%
56.00	100.00 100.00
54.90	81.00 97.30
0.00	0.00 0.00
0.00	0.00 0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111522.D\data.ms

(26) Vinyl acetate (TMP)

8.539min (+ 0.000) 0.976 ppbv

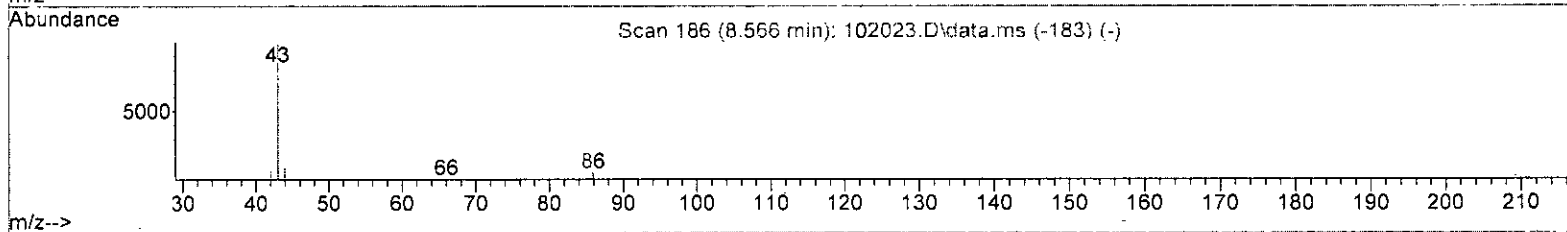
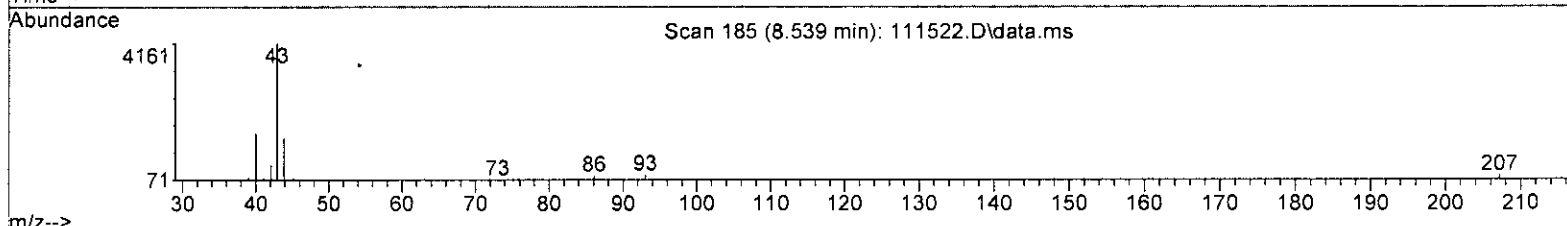
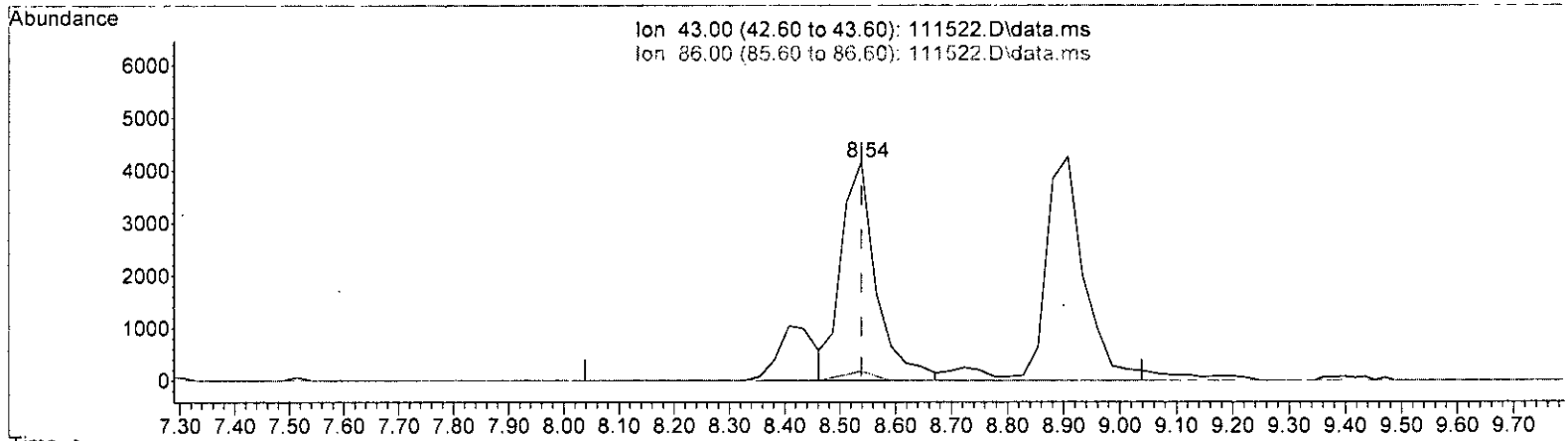
response	22967	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	4.30
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: C. Alster*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

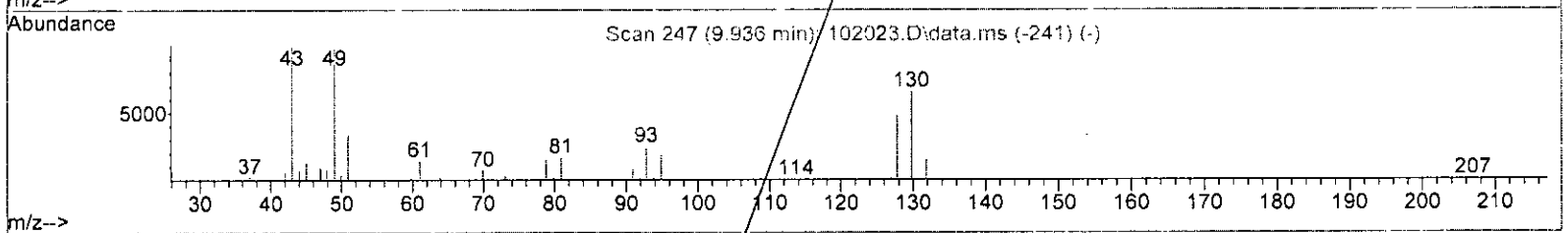
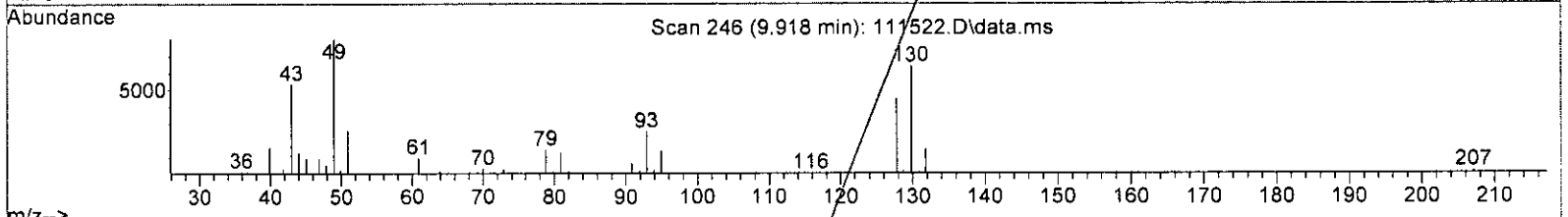
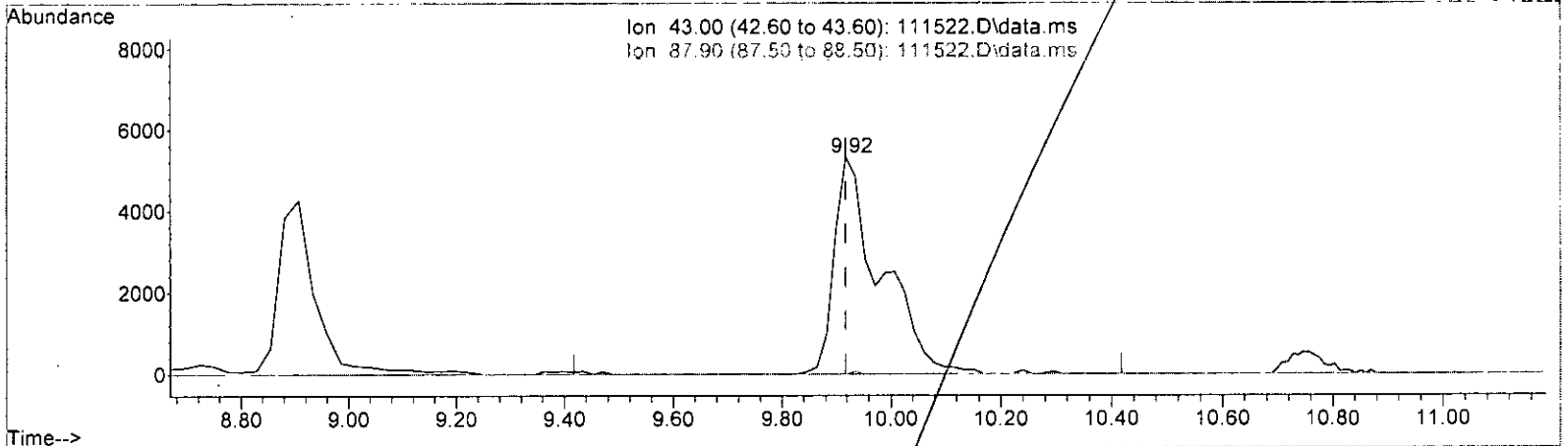
(26) Vinyl acetate (TMP)			
8.539min (+ 0.000) 0.771 ppbv m			
response	18137		
Ion	Exp%	Act%	
43.00	100.00	100.00	
86.00	4.20	4.30	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

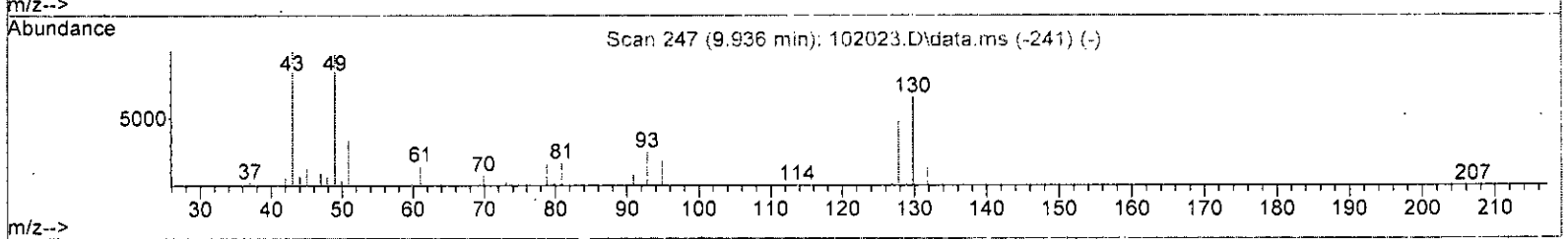
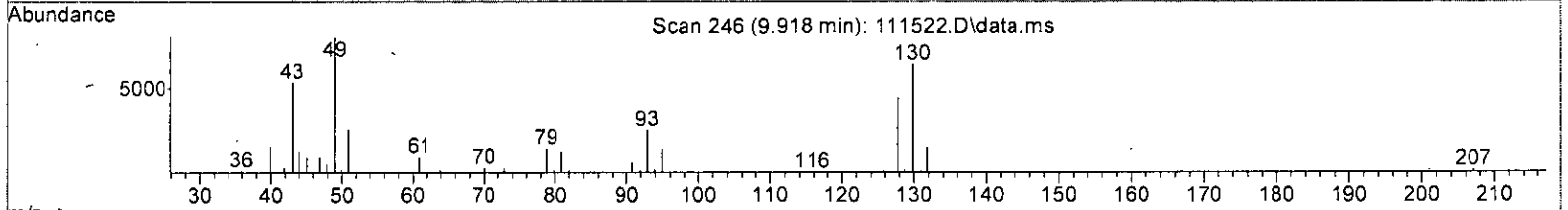
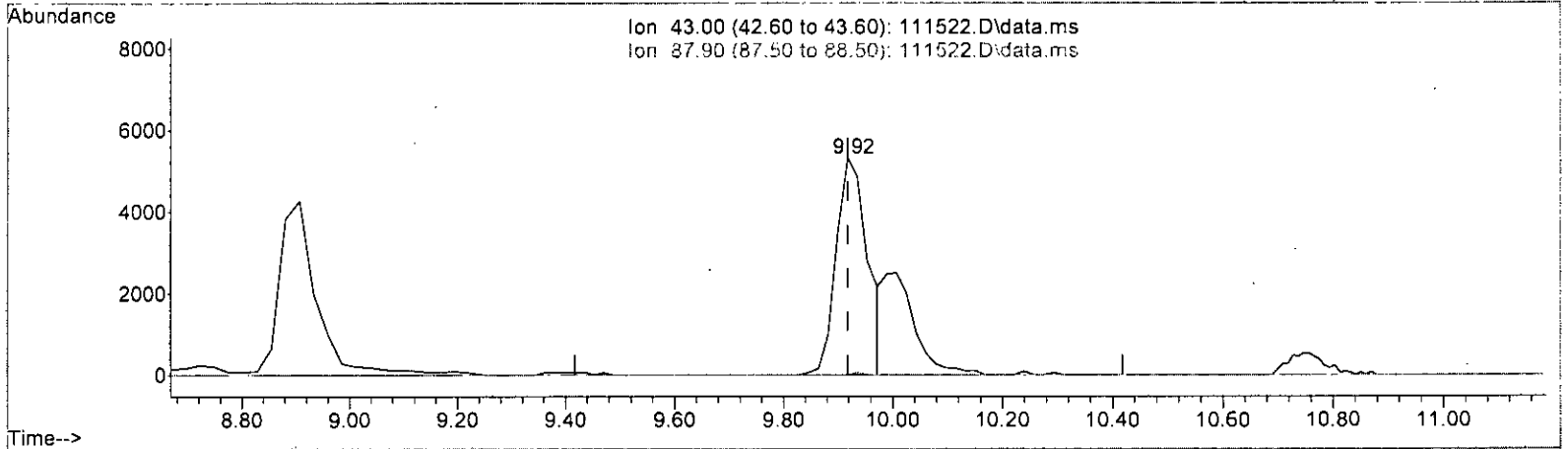
(31) Ethyl acetate (TMP)		
9.918min (-0.000)	1.337 ppbv	
response	31344	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

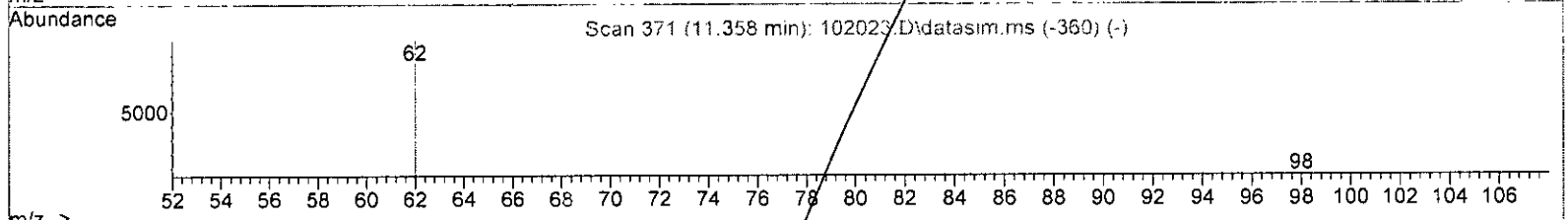
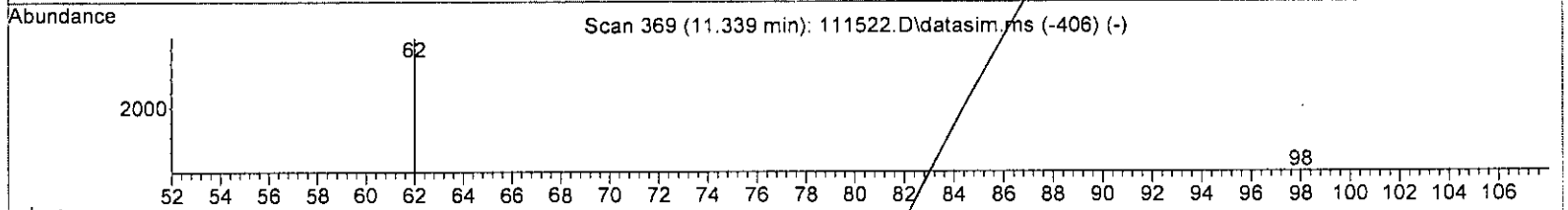
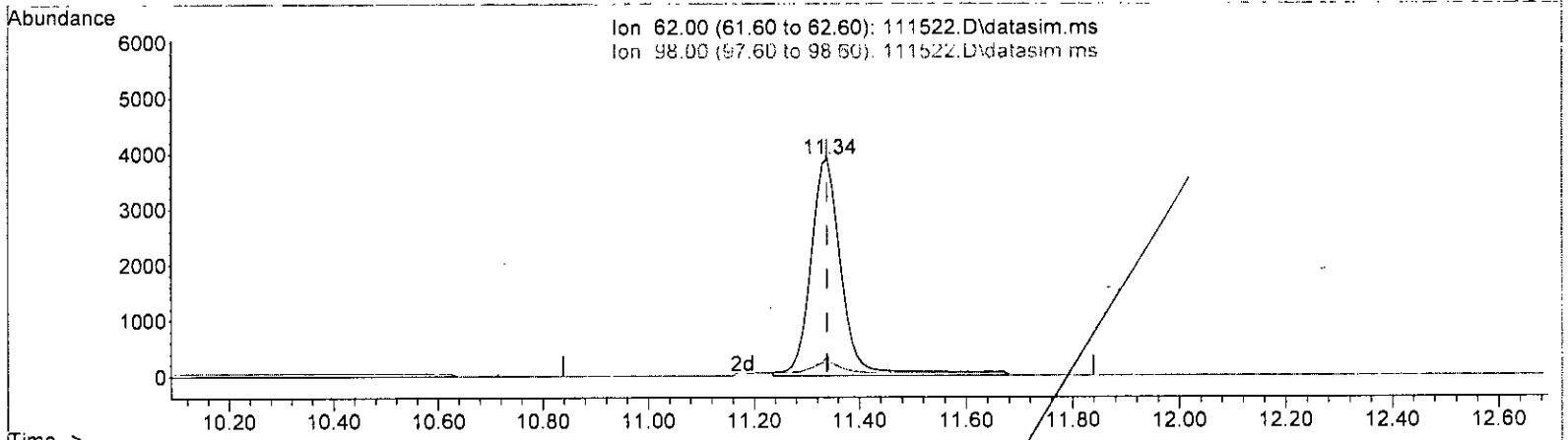
(31) Ethyl acetate (TMP)		
9.918min (-0.000) 0.909 ppbv m		
response	21319	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

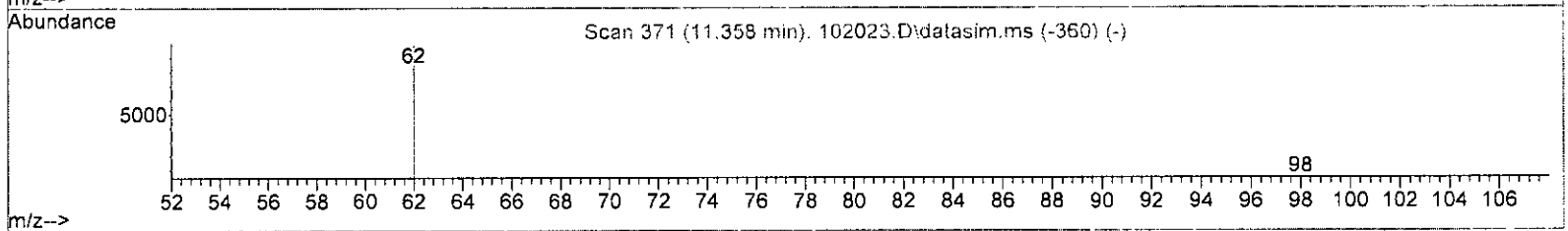
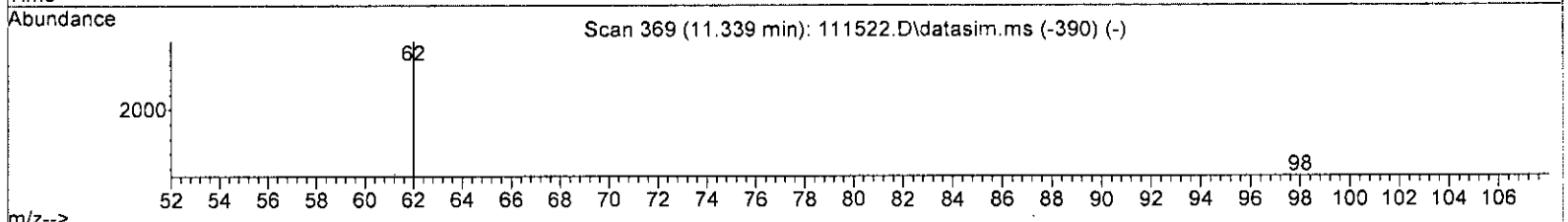
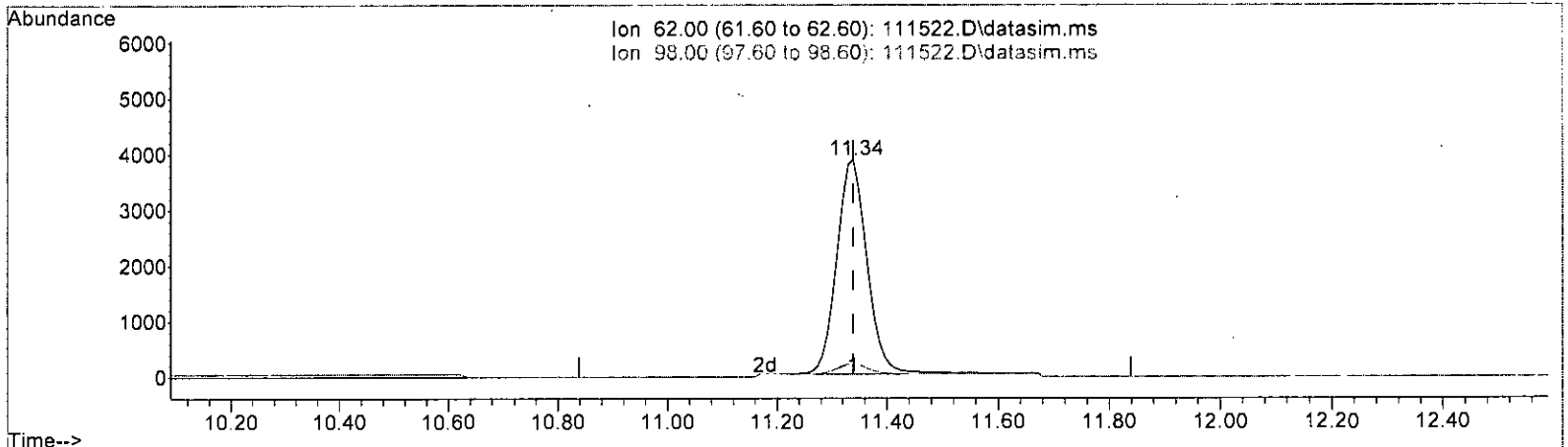
(34) 1,2-Dichloroethane (EDC) (TMP)			
11.339min (+ 0.000) 1.011 ppbv			
response	16184		
Ion	Exp%	Act%	
62.00	100.00	100.00	
98.00	5.30	6.24	
0.00	0.00	0.00	
0.00	0.00	0.00	

h/k/w

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.339min (+ 0.000) 0.920 ppbv m

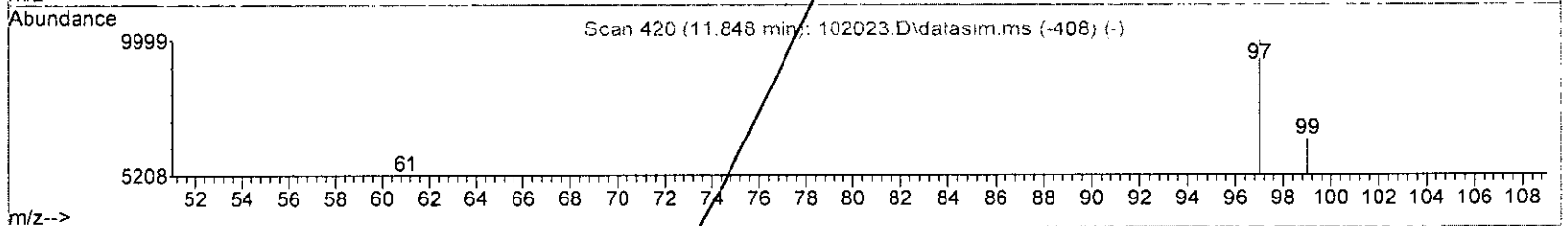
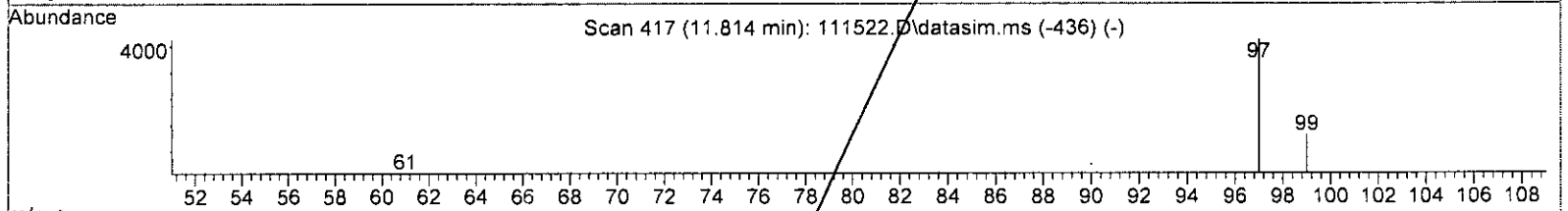
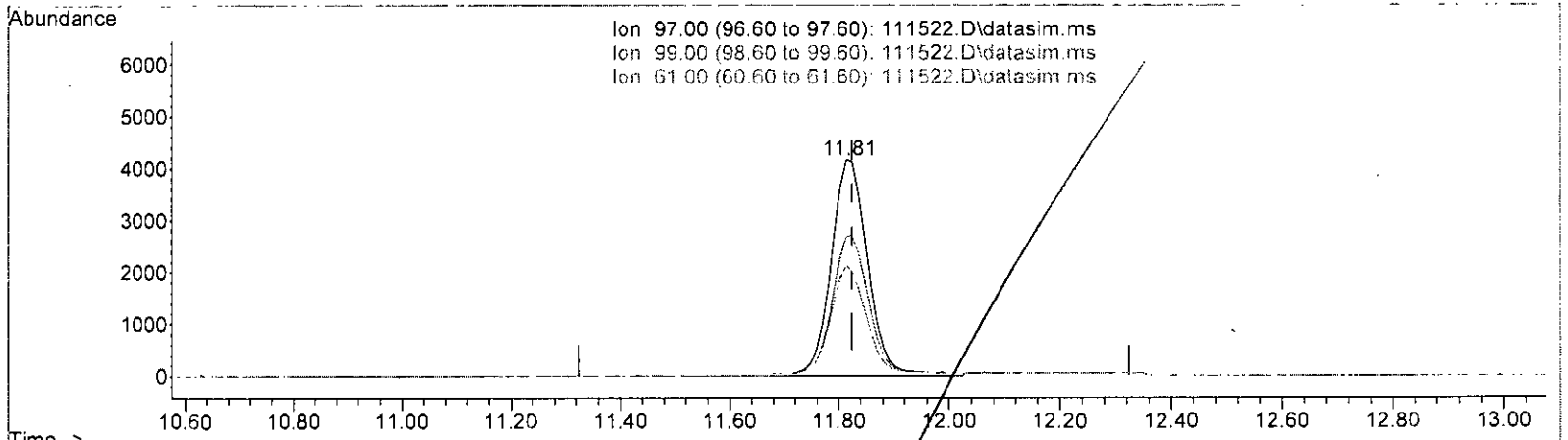
response	14741	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	6.24
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.814min (-0.011) 0.936 ppbv

response	19366
Ion	Exp% Act%
97.00	100.00 100.00
99.00	61.70 64.68
61.00	49.30 51.08
0.00	0.00 0.00

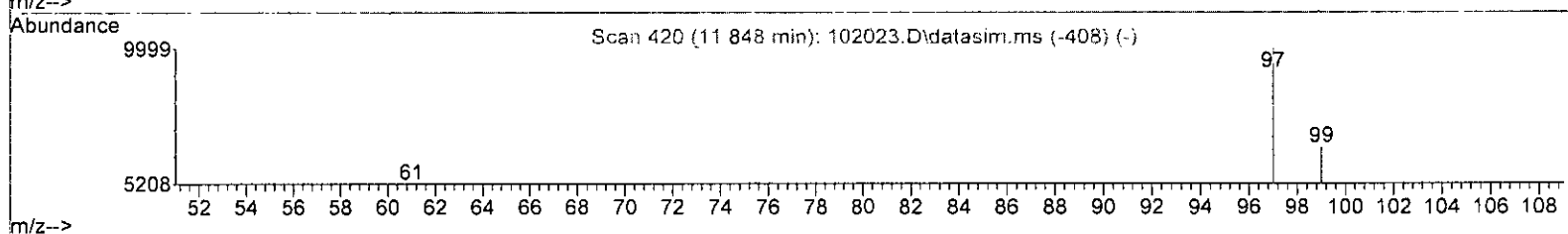
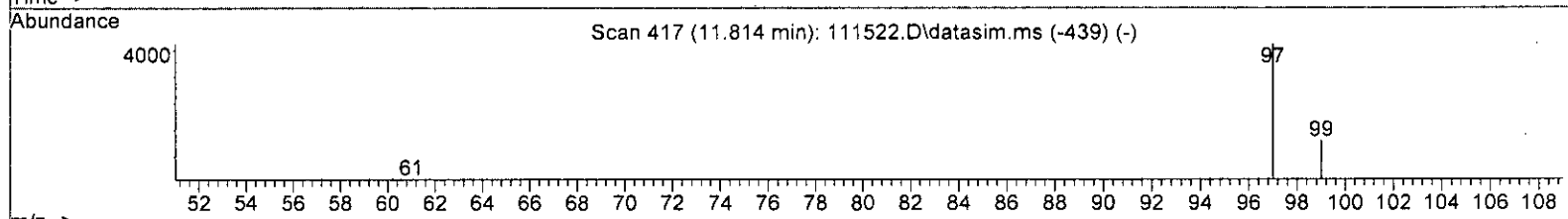
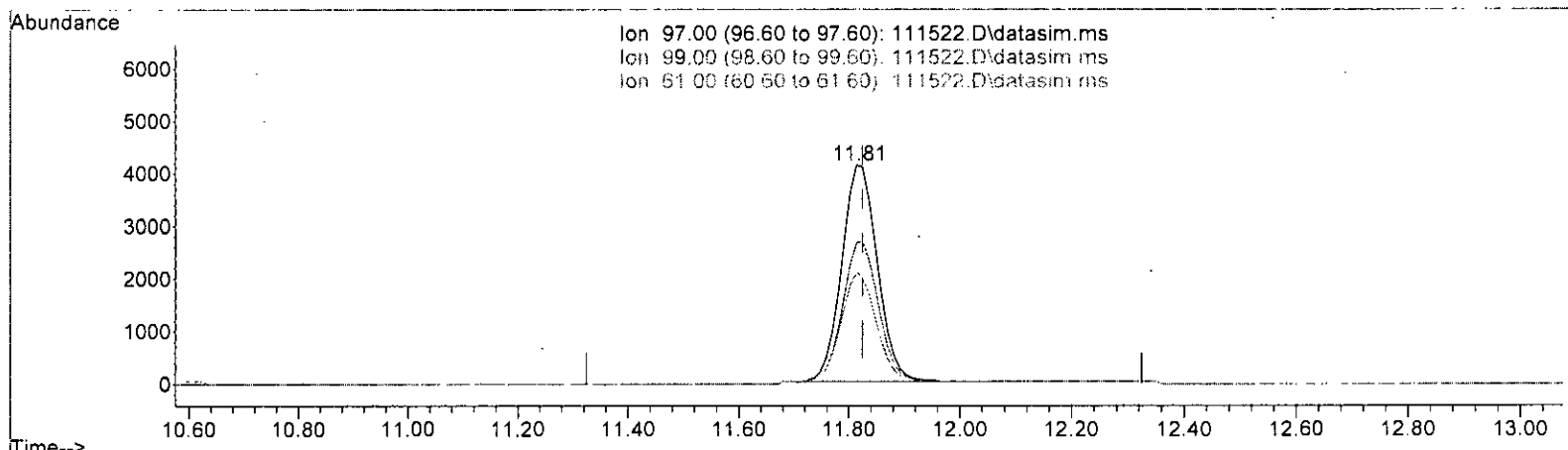
*bat*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111522.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.814min (-0.011) 0.897 ppbv m

response	18568	
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	64.68
61.00	49.30	51.08
0.00	0.00	0.00

*h/ll/ll*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	61897	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	280612	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	252262	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	173001	9.896	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.00%	
Target Compounds						
						Qvalue
2) Propene	3.41	41	8476	0.977	ppbv	98
3) Dichlorodifluoromethane	3.49	85	25247	0.989	ppbv	98
4) Chloromethane	3.73	50	12248m	1.051	ppbv	
5) F-114	3.84	85	26770	1.026	ppbv	95
6) Vinyl chloride	4.05	62	10517	0.918	ppbv	100
7) 1,3-Butadiene	4.17	54	6793m	0.903	ppbv	
8) Butane	4.28	43	14646	1.084	ppbv	83
9) Bromomethane	4.60	94	11468	1.003	ppbv	98
10) Chloroethane	4.84	64	4039m	0.997	ppbv	
11) Vinyl bromide	5.28	106	8908m	0.894	ppbv	
12) Ethanol	4.92	45	5034	1.226	ppbv	93
13) Acrolein	5.38	56	4512m	1.000	ppbv	
14) Pentane	6.25	43	14205	0.933	ppbv	91
15) Trichlorofluoromethane	5.82	101	29470	0.996	ppbv	93
16) Acetone	5.53	58	5072	1.153	ppbv #	68
17) 2-Propanol	5.78	45	18341	0.957	ppbv	100
18) 1,1-Dichloroethene	6.63	96	9330	0.916	ppbv	90
19) trans-1,2-Dichloroethene	8.07	96	8953	0.905	ppbv	94
20) Methylene chloride	6.78	84	9604	1.049	ppbv	88
21) t-Butyl alcohol (TBA)	6.57	59	15062	0.912	ppbv #	66
22) 3-Chloropropene	6.94	41	11102	0.872	ppbv	93
23) CFC-113	7.15	101	19415	0.904	ppbv	98
24) Carbon disulfide	7.23	76	28021	0.876	ppbv	95
25) Methyl t-butyl ether (...)	8.43	73	20246	0.953	ppbv	100
26) Vinyl acetate	8.54	43	18137m	0.771	ppbv	
27) 1,1-Dichloroethane	8.36	63	18894	0.913	ppbv	99
28) cis-1,2-Dichloroethene	9.62	96	9513	0.909	ppbv	90
29) Hexane	10.01	57	11499	0.898	ppbv	91
30) Chloroform	10.08	83	22481	0.932	ppbv	97
31) Ethyl acetate	9.92	43	21319m	0.909	ppbv	
32) Tetrahydrofuran	10.75	42	10348	0.924	ppbv	99
33) 2-Butanone (MEK)	8.91	72	3944	1.030	ppbv #	82
34) 1,2-Dichloroethane (EDC)	11.34	62	14741m	0.920	ppbv	
35) 1,1,1-Trichloroethane	11.81	97	18568m	0.897	ppbv	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37) Benzene	12.61	78	32378	0.956	ppbv	96
38) Cyclohexane	13.05	84	9050	1.070	ppbv	94
40) 1,2-Dichloropropane	13.80	63	14360	0.945	ppbv	99

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

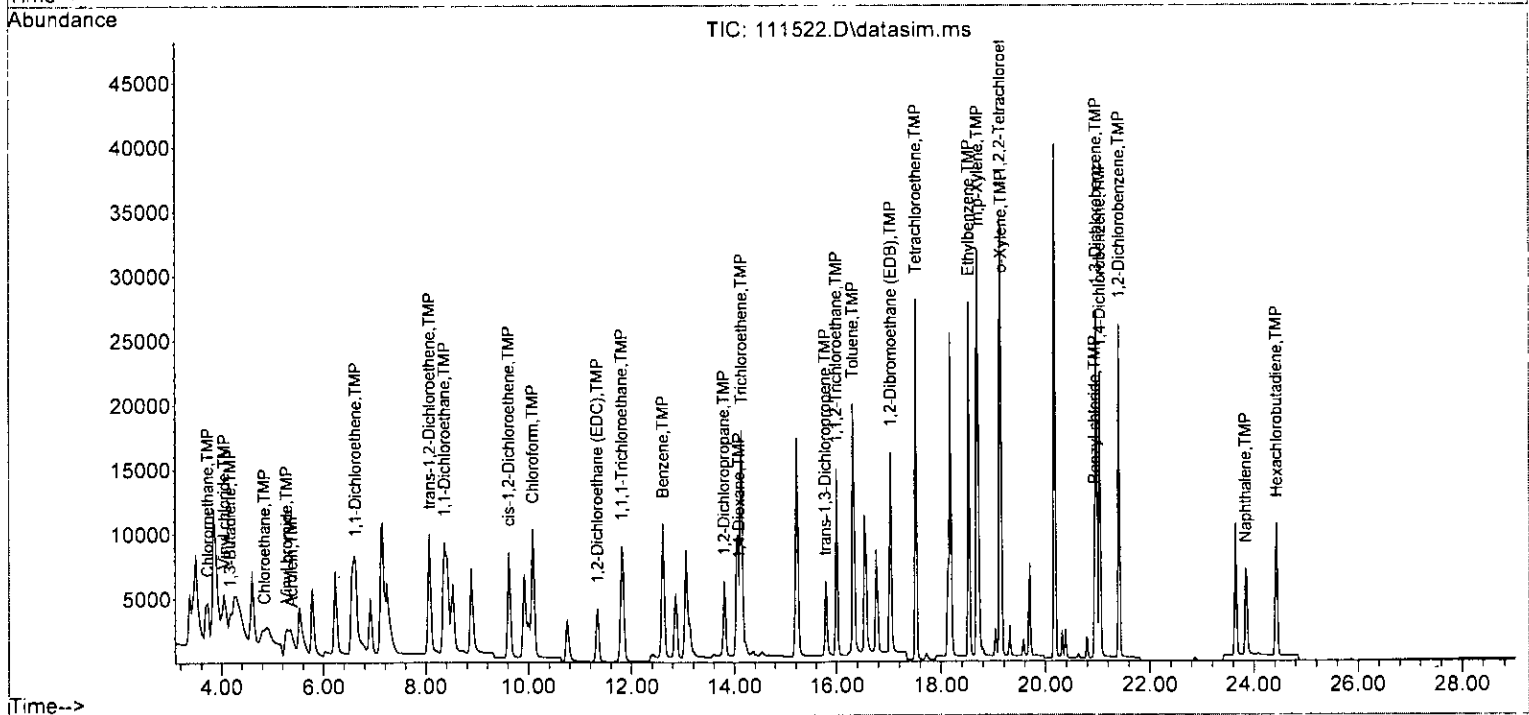
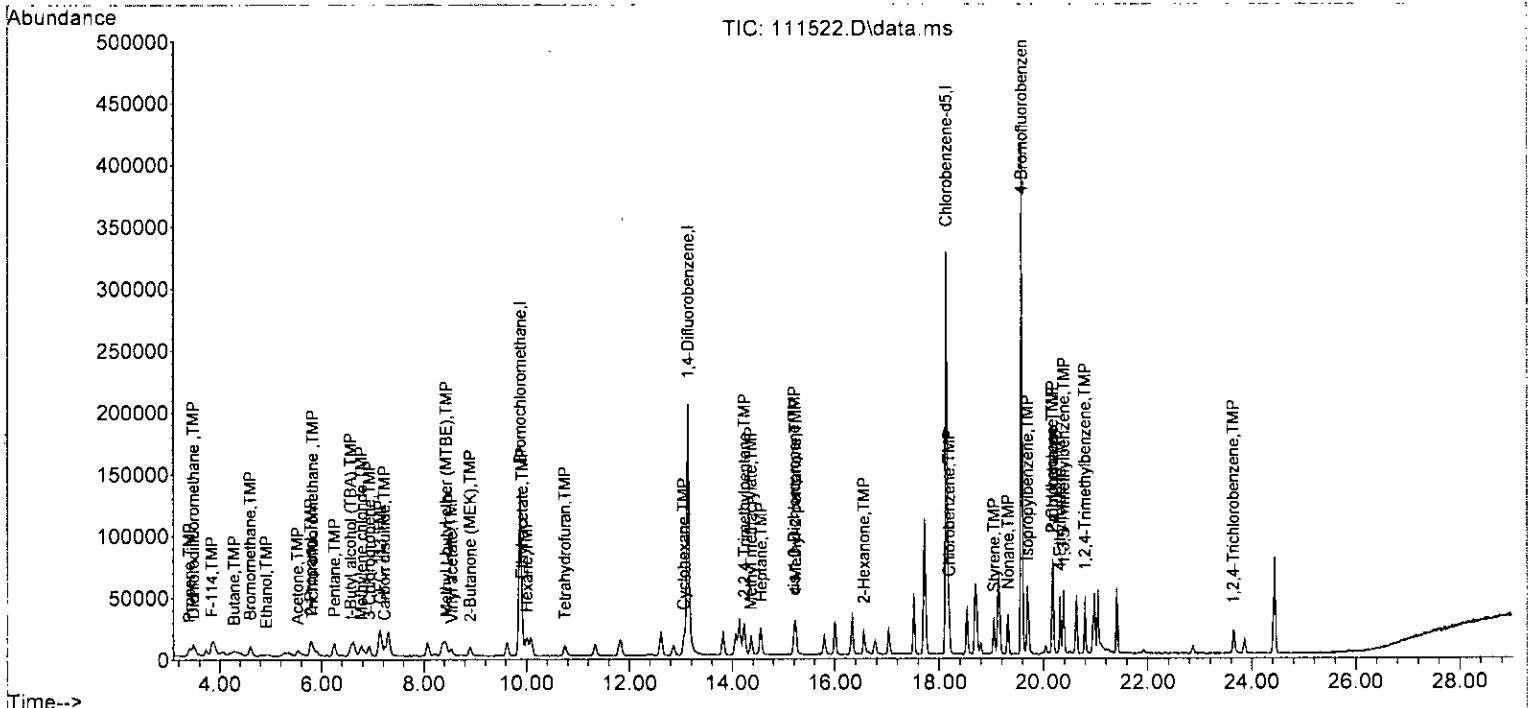
Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	6390	0.989	ppbv	87
42) 2,2,4-Trimethylpentane	14.24	57	41293	0.921	ppbv #	82
43) Methyl methacrylate	14.36	41	13309	0.977	ppbv	97
44) Heptane	14.56	43	17358	0.932	ppbv	98
45) Bromodichloromethane	0.00		0	N.D.	d	
46] Trichloroethene	14.14	95	15584	0.936	ppbv	94
47) cis-1,3-Dichloropropene	15.20	75	15247	0.908	ppbv	94
48) 4-Methyl-2-pentanone	15.23	100	1192	0.960	ppbv #	89
49] trans-1,3-Dichloropropene	15.78	75	13794	0.873	ppbv	83
50] Toluene	16.31	92	20038	1.010	ppbv	97
51] 1,1,2-Trichloroethane	16.00	83	14678	0.998	ppbv	93
52) 2-Hexanone	16.56	43	22201	0.935	ppbv	98
53] Tetrachloroethene	17.52	164	13275	0.966	ppbv	91
54) Dibromochloromethane	0.00		0	N.D.	d	
55] 1,2-Dibromoethane (EDB)	17.04	107	21154	0.976	ppbv	98
57) Chlorobenzene	18.19	112	26451	0.953	ppbv	97
58] Ethylbenzene	18.53	91	41021	0.900	ppbv	96
59] 1,1,2,2-Tetrachloroethane	19.13	83	30649	0.899	ppbv	93
60) Nonane	19.32	43	18435	0.745	ppbv	90
61) Isopropylbenzene	19.70	105	42880	0.949	ppbv	98
62) 2-Chlorotoluene	20.17	126	10476	0.927	ppbv	79
63) Propylbenzene	20.17	91	76426	0.920	ppbv	97
64) 4-Ethyltoluene	20.32	105	32835	0.808	ppbv	99
65] m,p-Xylene	18.70	106	27820	1.742	ppbv	97
66] o-Xylene	19.15	106	13828	0.892	ppbv	99
67) Styrene	19.05	104	17522	0.848	ppbv	99
68) Bromoform	0.00		0	N.D.	d	
70] Benzyl chloride	20.95	91	17786	0.624	ppbv	99
71) 1,3,5-Trimethylbenzene	20.39	105	33183	0.907	ppbv	97
72) 1,2,4-Trimethylbenzene	20.80	105	27377	0.865	ppbv	98
73] 1,3-Dichlorobenzene	20.98	146	23587	0.924	ppbv	99
74] 1,4-Dichlorobenzene	21.05	146	22090	0.925	ppbv	99
75] 1,2-Dichlorobenzene	21.41	146	26013	1.007	ppbv	94
76) 1,2,4-Trichlorobenzene	23.64	180	10416	0.705	ppbv	91
77] Naphthalene	23.84	128	16683	0.935	ppbv	98
78] Hexachlorobutadiene	24.44	225	24044	0.912	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-1968  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	1.000	0.977	2.3	100	0.00
3 TMP Dichlorodifluoromethane	1.000	0.989	1.1	100	0.00
4 TMP Chloromethane	1.000	1.051	-5.1	102	0.00
5 TMP F-114	1.000	1.026	-2.6	107	-0.04
6 TMP Vinyl chloride	1.000	0.918	8.2	100	-0.04
7 TMP 1,3-Butadiene	1.000	0.903	9.7	103	-0.12
8 TMP Butane	1.000	1.084	-8.4	105	-0.04
9 TMP Bromomethane	1.000	1.003	-0.3	100	0.00
10 TMP Chloroethane	1.000	0.997	0.3	102	0.00
11 TMP Vinyl bromide	1.000	0.894	10.6	97	-0.04
12 TMP Ethanol	1.000	1.226	-22.6	100	-0.04
13 TMP Acrolein	1.000	1.000	0.0	101	-0.04
14 TMP Pentane	1.000	0.933	6.7	100	0.00
15 TMP Trichlorofluoromethane	1.000	0.996	0.4	100	-0.02
16 TMP Acetone	1.000	1.153	-15.3	100	-0.04
17 TMP 2-Propanol	1.000	0.957	4.3	100	0.00
18 TMP 1,1-Dichloroethene	1.000	0.916	8.4	100	0.00
19 TMP trans-1,2-Dichloroethene	1.000	0.905	9.5	100	-0.03
20 TMP Methylene chloride	1.000	1.049	-4.9	100	-0.03
21 TMP t-Butyl alcohol (TBA)	1.000	0.912	8.8	100	0.00
22 TMP 3-Chloropropene	1.000	0.872	12.8	100	0.00
23 TMP CFC-113	1.000	0.904	9.6	100	0.00
24 TMP Carbon disulfide	1.000	0.876	12.4	100	-0.05
25 TMP Methyl t-butyl ether (MTBE)	1.000	0.953	4.7	100	0.00
26 TMP Vinyl acetate	1.000	0.771	22.9	100	0.00
27 TMP 1,1-Dichloroethane	1.000	0.913	8.7	100	0.00
28 TMP cis-1,2-Dichloroethene	1.000	0.909	9.1	100	-0.02
29 TMP Hexane	1.000	0.898	10.2	100	0.00
30 TMP Chloroform	1.000	0.932	6.8	100	-0.02
31 TMP Ethyl acetate	1.000	0.909	9.1	100	0.00
32 TMP Tetrahydrofuran	1.000	0.924	7.6	100	0.00
33 TMP 2-Butanone (MEK)	1.000	1.030	-3.0	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	1.000	0.920	8.0	101	0.00
35 TMP 1,1,1-Trichloroethane	1.000	0.897	10.3	100	-0.01
36 TMP Carbon tetrachloride	1.000	0.000	100.0#	0	-12.86#
37 TMP Benzene	1.000	0.956	4.4	100	0.00
38 TMP Cyclohexane	1.000	1.070	-7.0	100	-0.02
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	1.000	0.945	5.5	100	0.00
41 TMP 1,4-Dioxane	1.000	0.989	1.1	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.000	0.921	7.9	100	0.00
43 TMP Methyl methacrylate	1.000	0.977	2.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	1.000	0.932	6.8	100	0.00
45 TMP Bromodichloromethane	1.000	0.000	100.0#	0	-14.04#
46 TMP Trichloroethene	1.000	0.936	6.4	100	0.00
47 TMP cis-1,3-Dichloropropene	1.000	0.908	9.2	100	0.00
48 TMP 4-Methyl-2-pentanone	1.000	0.960	4.0	100	0.00
49 TMP trans-1,3-Dichloropropene	1.000	0.873	12.7	100	0.00
50 TMP Toluene	1.000	1.010	-1.0	107	0.00
51 TMP 1,1,2-Trichloroethane	1.000	0.998	0.2	109	0.00
52 TMP 2-Hexanone	1.000	0.935	6.5	100	0.00
53 TMP Tetrachloroethene	1.000	0.966	3.4	100	0.00
54 TMP Dibromochloromethane	1.000	0.000	100.0#	0	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	1.000	0.976	2.4	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	1.000	0.953	4.7	100	0.00
58 TMP Ethylbenzene	1.000	0.900	10.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.000	0.899	10.1	100	0.00
60 TMP Nonane	1.000	0.745	25.5	100	0.02
61 TMP Isopropylbenzene	1.000	0.949	5.1	100	0.00
62 TMP 2-Chlorotoluene	1.000	0.927	7.3	100	0.00
63 TMP Propylbenzene	1.000	0.920	8.0	100	-0.01
64 TMP 4-Ethyltoluene	1.000	0.808	19.2	100	0.00
65 TMP m,p-Xylene	2.000	1.742	12.9	100	0.00
66 TMP o-Xylene	1.000	0.892	10.8	100	0.00
67 TMP Styrene	1.000	0.848	15.2	100	0.00
68 TMP Bromoform	1.000	0.000	100.0#	0	-18.80#
69 S 4-Bromofluorobenzene	10.000	9.896	1.0	100	0.00
70 TMP Benzyl chloride	1.000	0.624	37.6#	103	0.00
71 TMP 1,3,5-Trimethylbenzene	1.000	0.907	9.3	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.000	0.865	13.5	100	0.00
73 TMP 1,3-Dichlorobenzene	1.000	0.924	7.6	100	0.00
74 TMP 1,4-Dichlorobenzene	1.000	0.925	7.5	100	0.00
75 TMP 1,2-Dichlorobenzene	1.000	1.007	-0.7	100	0.00
76 TMP 1,2,4-Trichlorobenzene	1.000	0.705	29.5	100	0.00
77 TMP Naphthalene	1.000	0.935	6.5	100	0.00
78 TMP Hexachlorobutadiene	1.000	0.912	8.8	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.369	12.0	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.079	1.1	100	0.00
4 TMP Chloromethane	1.882	1.979	-5.2	102	0.00
5 TMP F-114	4.217	4.325	-2.6	107	-0.04
6 TMP Vinyl chloride	1.851	1.699	8.2	100	-0.04
7 TMP 1,3-Butadiene	1.216	1.097	9.8	103	-0.12
8 TMP Butane	2.183	2.366	-8.4	105	-0.04
9 TMP Bromomethane	1.847	1.853	-0.3	100	0.00
10 TMP Chloroethane	0.655	0.653	0.3	102	0.00
11 TMP Vinyl bromide	1.609	1.439	10.6	97	-0.04
12 TMP Ethanol	0.663	0.813	-22.6	100	-0.04
13 TMP Acrolein	0.729	0.729	0.0	101	-0.04
14 TMP Pentane	2.461	2.295	6.7	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.761	0.4	100	-0.02
16 TMP Acetone	0.710	0.819	-15.4	100	-0.04
17 TMP 2-Propanol	3.096	2.963	4.3	100	0.00
18 TMP 1,1-Dichloroethene	1.645	1.507	8.4	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.446	9.5	100	-0.03
20 TMP Methylene chloride	1.479	1.552	-4.9	100	-0.03
21 TMP t-Butyl alcohol (TBA)	2.668	2.433	8.8	100	0.00
22 TMP 3-Chloropropene	2.056	1.794	12.7	100	0.00
23 TMP CFC-113	3.469	3.137	9.6	100	0.00
24 TMP Carbon disulfide	5.167	4.527	12.4	100	-0.05
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.271	4.7	100	0.00
26 TMP Vinyl acetate	3.801	2.930	22.9	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.052	8.7	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.537	9.1	100	-0.02
29 TMP Hexane	2.068	1.858	10.2	100	0.00
30 TMP Chloroform	4.060	3.632	10.5	100	-0.02
31 TMP Ethyl acetate	3.789	3.444	9.1	100	0.00
32 TMP Tetrahydrofuran	1.809	1.672	7.6	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.637	-2.9	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.382	11.4	101	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.000	10.3	100	-0.01
36 TMP Carbon tetrachloride	3.523	0.000#	100.0#	0#	-12.86#
37 TMP Benzene	5.688	5.231	8.0	100	0.00
38 TMP Cyclohexane	1.367	1.462	-6.9	100	-0.02
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.512	5.4	100	0.00
41 TMP 1,4-Dioxane	0.230	0.228	0.9	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.472	7.9	100	0.00
43 TMP Methyl methacrylate	0.485	0.474	2.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111522.D  
 Acq On : 16 Nov 2022 7:51 am  
 Operator : bat  
 Sample : 1.0 ppbv 67-196B  
 Misc : T6, 250cc of 1ppbv  
 ALS Vial : 22 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:46:00 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.619	6.6	100	0.00
45 TMP Bromodichloromethane	0.850	0.000#	100.0#	0#	-14.04#
46 TMP Trichloroethene	0.593	0.555	6.4	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.543	9.3	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.042	4.5	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.492	12.6	100	0.00
50 TMP Toluene	0.707	0.714	-1.0	107	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.523	4.9	109	0.00
52 TMP 2-Hexanone	0.846	0.791	6.5	100	0.00
53 TMP Tetrachloroethene	0.490	0.473	3.5	100	0.00
54 TMP Dibromochloromethane	0.861	0.000	100.0#	0#	-16.76#
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.754	8.5	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.049	4.7	100	0.00
58 TMP Ethylbenzene	1.968	1.626	17.4	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.215	12.8	100	0.00
60 TMP Nonane	0.981	0.731	25.5	100	0.02
61 TMP Isopropylbenzene	1.792	1.700	5.1	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.415	7.4	100	0.00
63 TMP Propylbenzene	3.292	3.030	8.0	100	-0.01
64 TMP 4-Ethyltoluene	1.611	1.302	19.2	100	0.00
65 TMP m,p-Xylene	0.633	0.551	13.0	100	0.00
66 TMP o-Xylene	0.615	0.548	10.9	100	0.00
67 TMP Styrene	0.819	0.695	15.1	100	0.00
68 TMP Bromoform	1.028	0.000#	100.0#	0#	-18.80#
69 S 4-Bromofluorobenzene	0.693	0.686	1.0	100	0.00
70 TMP Benzyl chloride	0.987	0.705	28.6	103	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.315	9.3	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.085	13.0	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	0.935	7.6	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.876	7.5	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.031	-0.7	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.413	34.0#	100	0.00
77 TMP Naphthalene	1.132	0.661	41.6#	100	0.00
78 TMP Hexachlorobutadiene	1.045	0.953	8.8	100	0.00

(#) = Out of Range

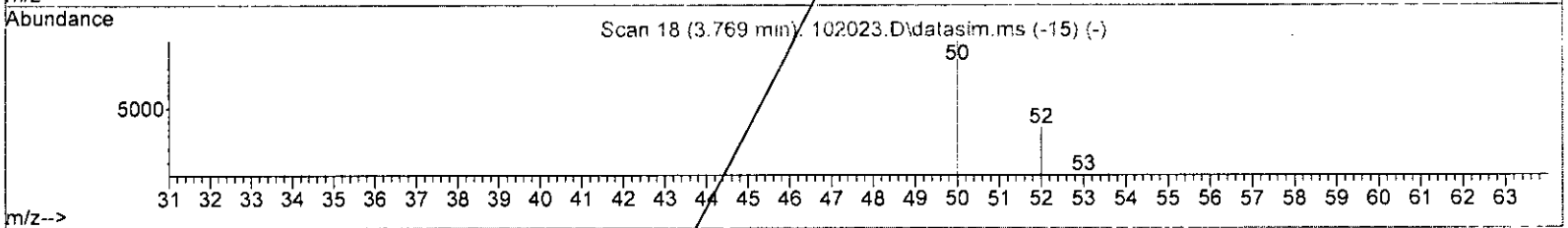
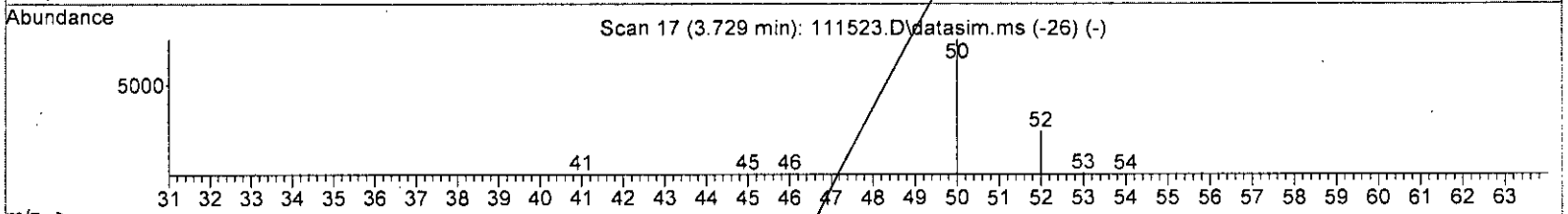
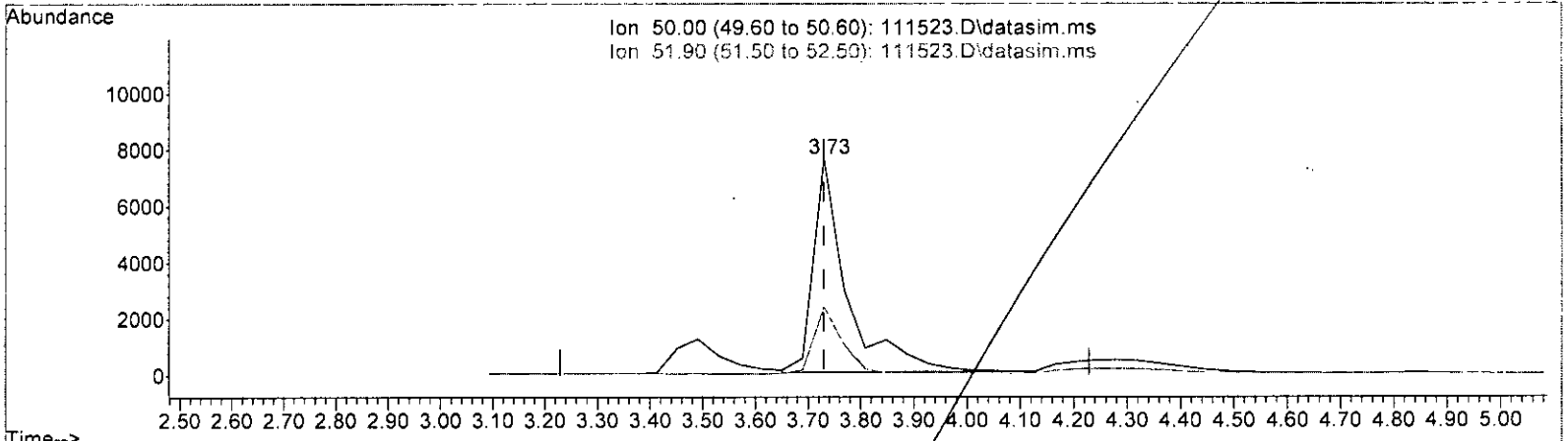
SPCC's out = 3 CCC's out = 0



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

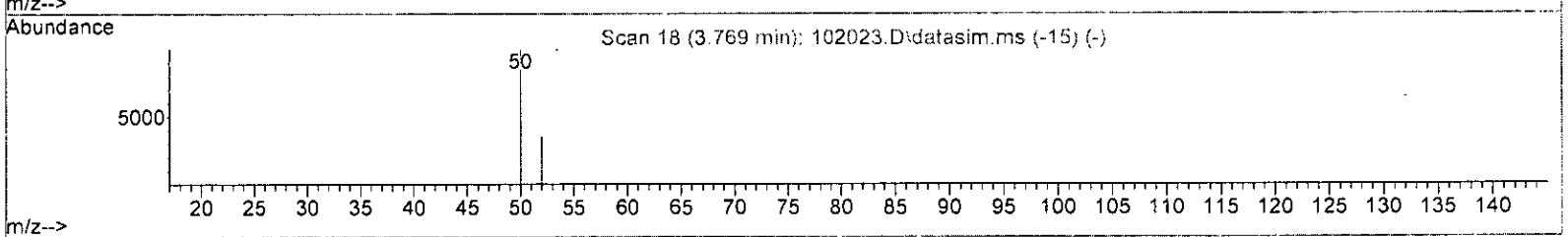
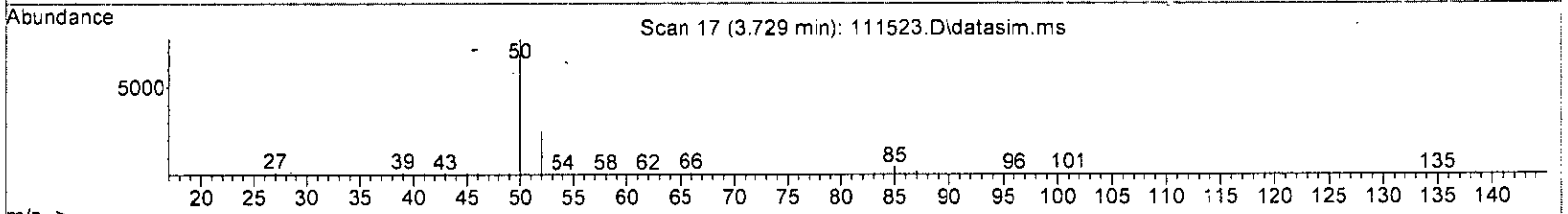
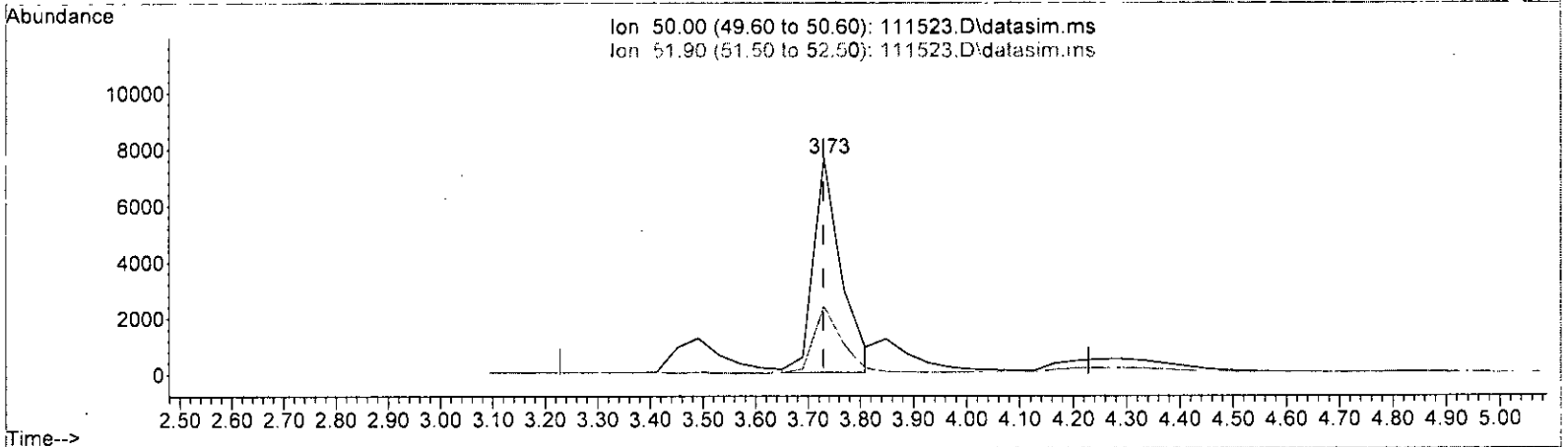
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	2.974 ppbv	
response	33620	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	31.47
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: bat 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

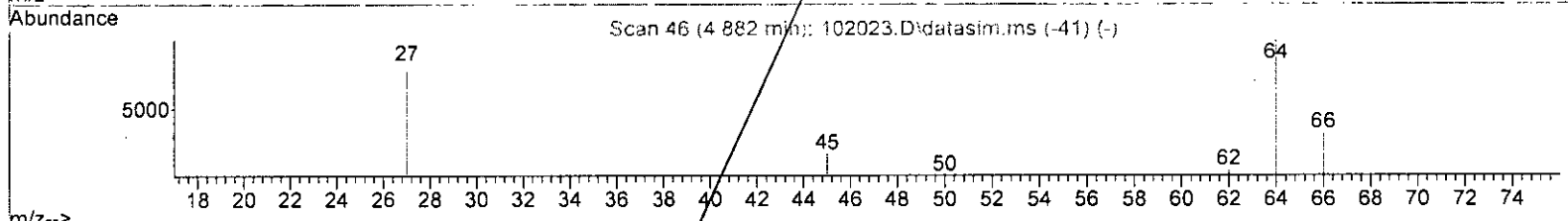
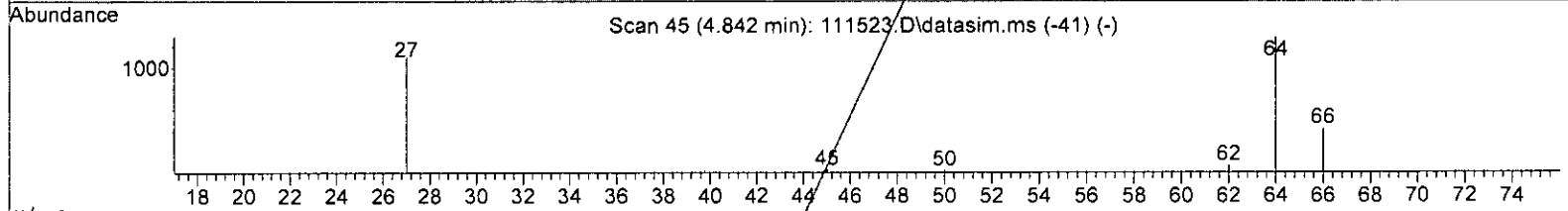
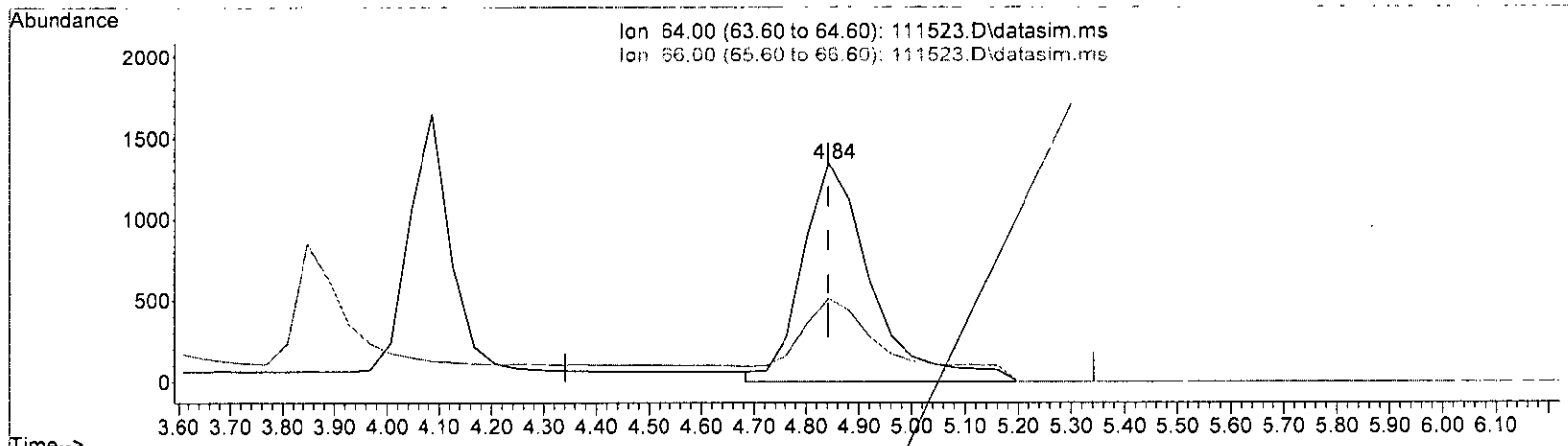
(4) Chloromethane (TMP)			
Time	Response	Exp%	Act%
3.729min (+ 0.000)	28666	100.00	100.00
51.90	25.30	0.00	31.77
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111523.D\data.ms

(10) Chloroethane (TMP)  
 4.842min (+ 0.000) 2.981 ppbv  
 response 11716

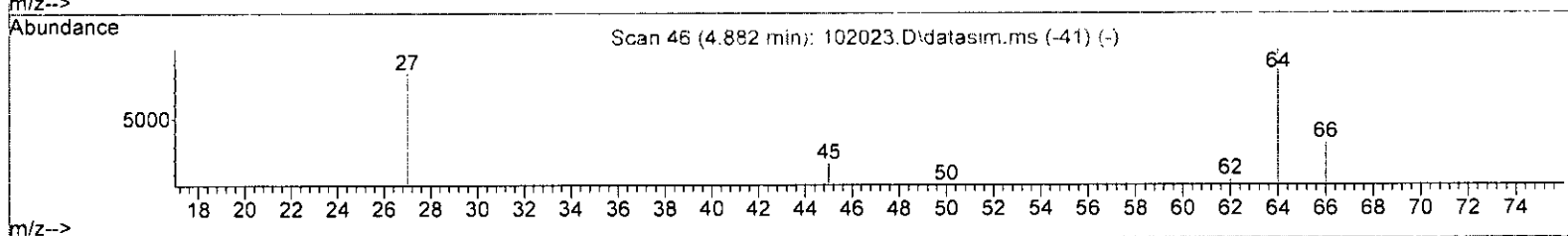
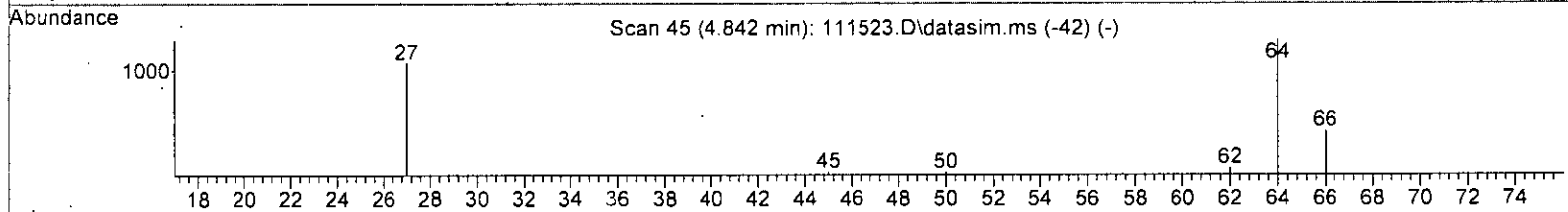
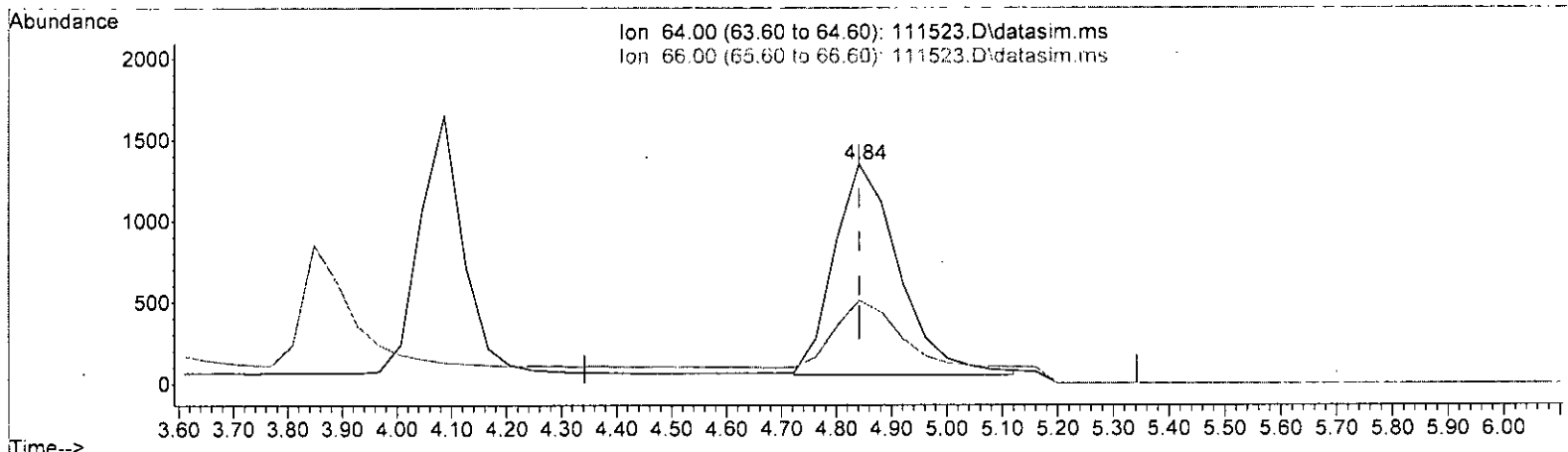
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	37.86
0.00	0.00	0.00
0.00	0.00	0.00

*h*  
*11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

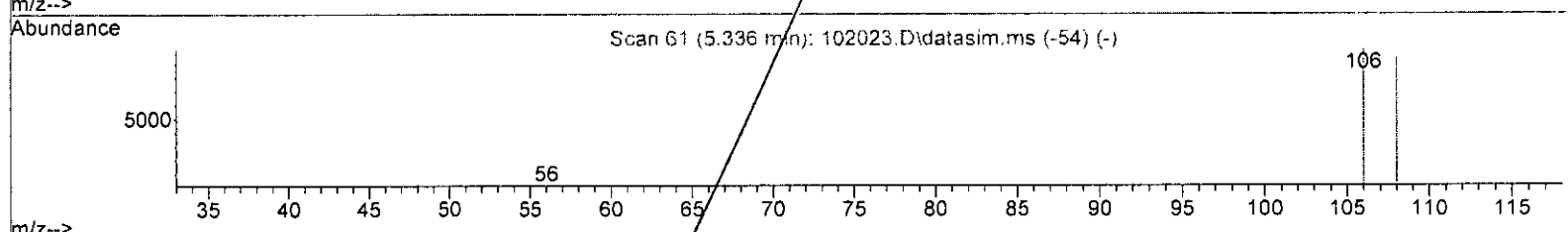
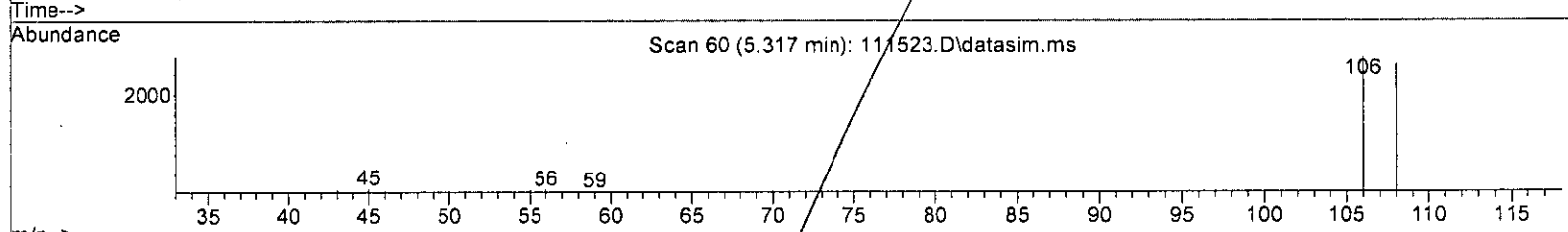
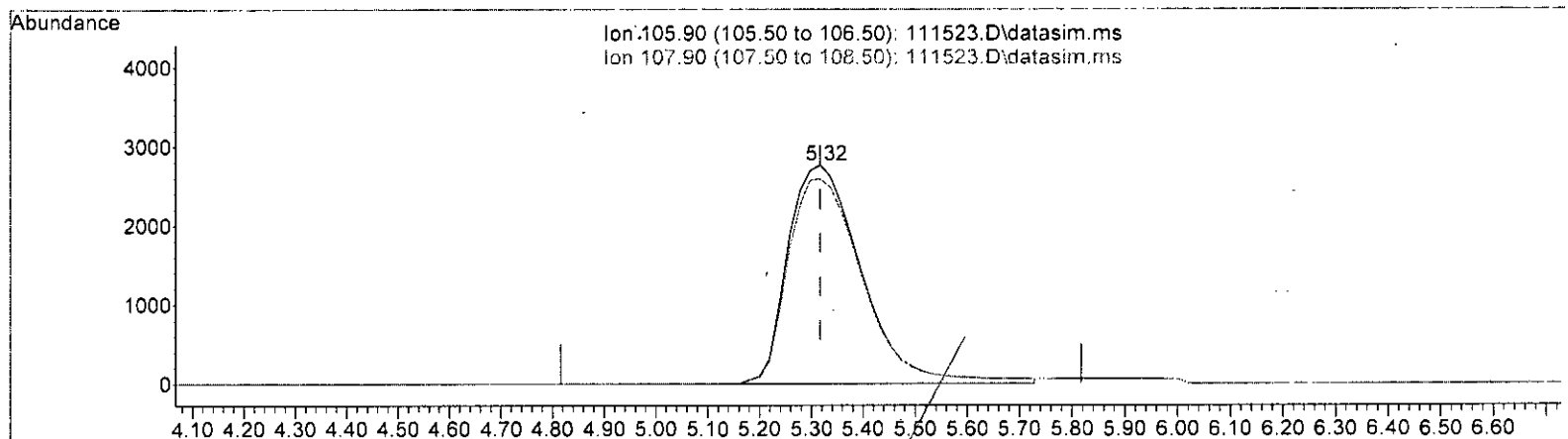
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	2.701 ppbv m	
response	10615	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	37.86
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

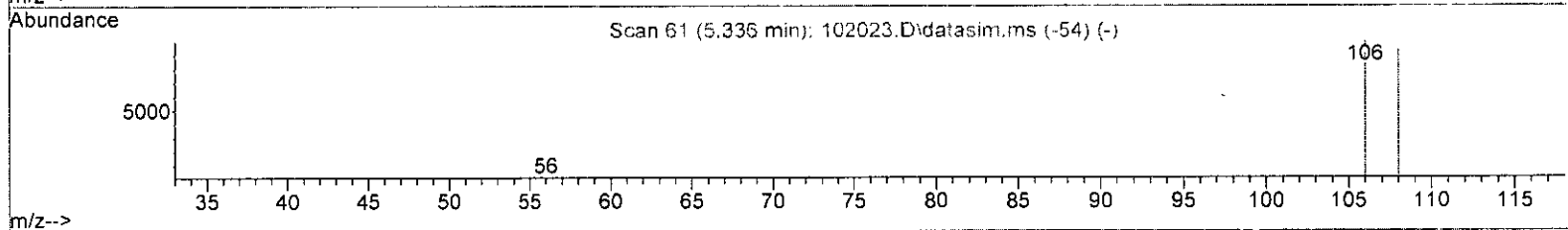
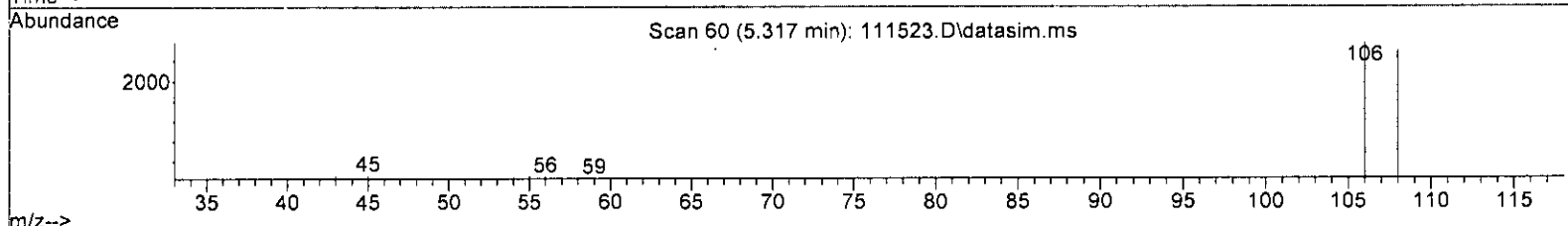
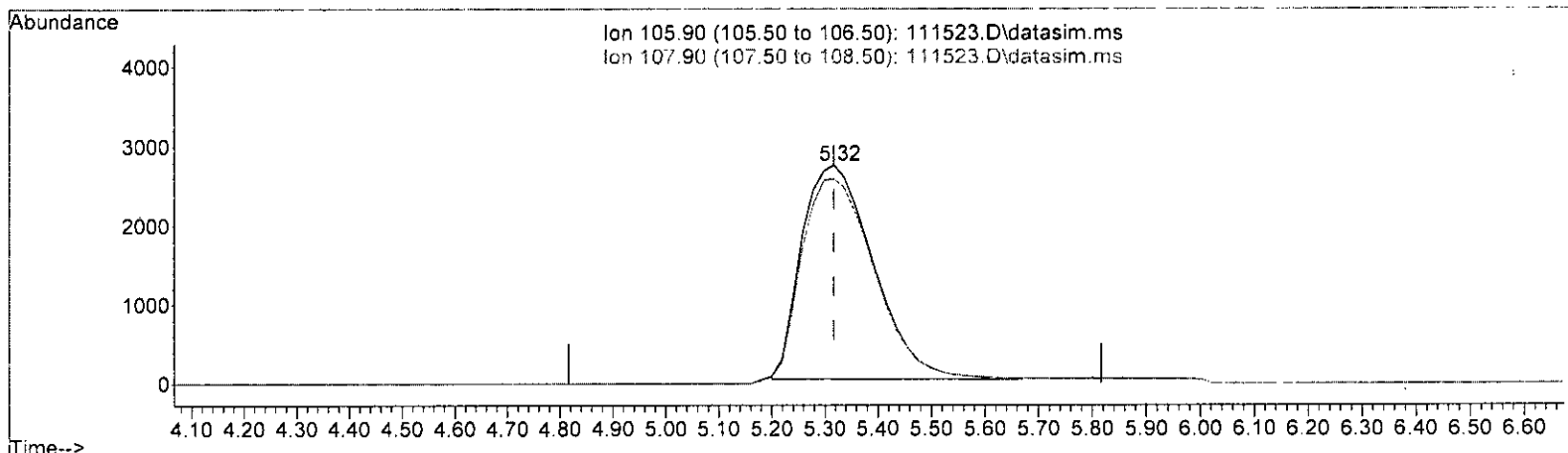
(11) Vinyl bromide (TMP)		
5.317min (+ 0.000)	3.023 ppbv	
response	29213	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	94.82
0.00	0.00	0.00
0.00	0.00	0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

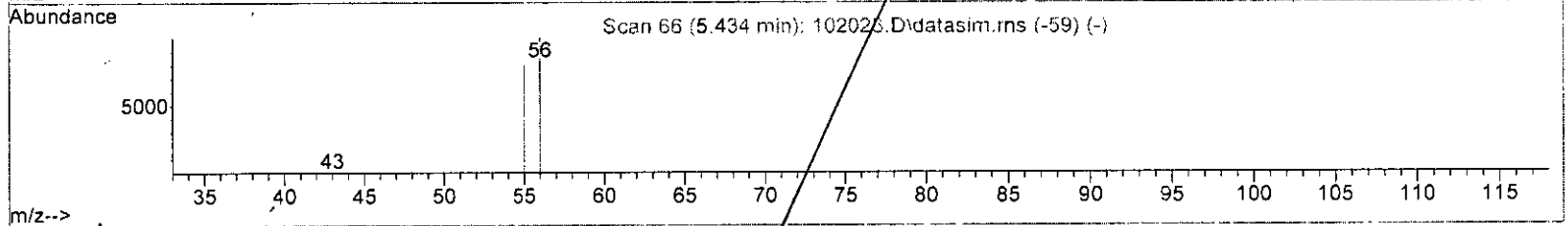
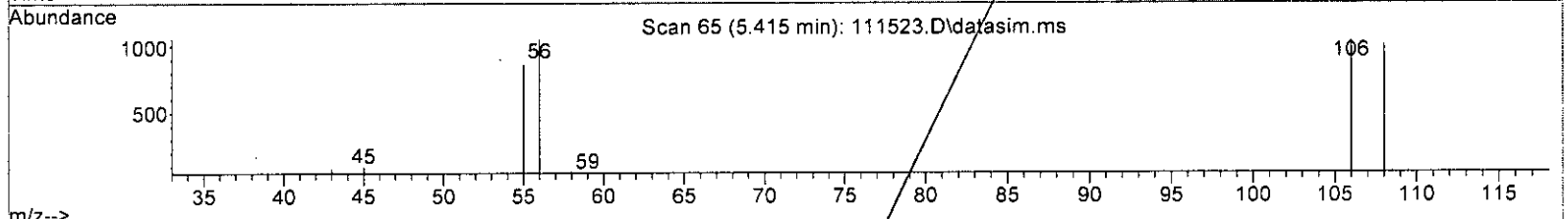
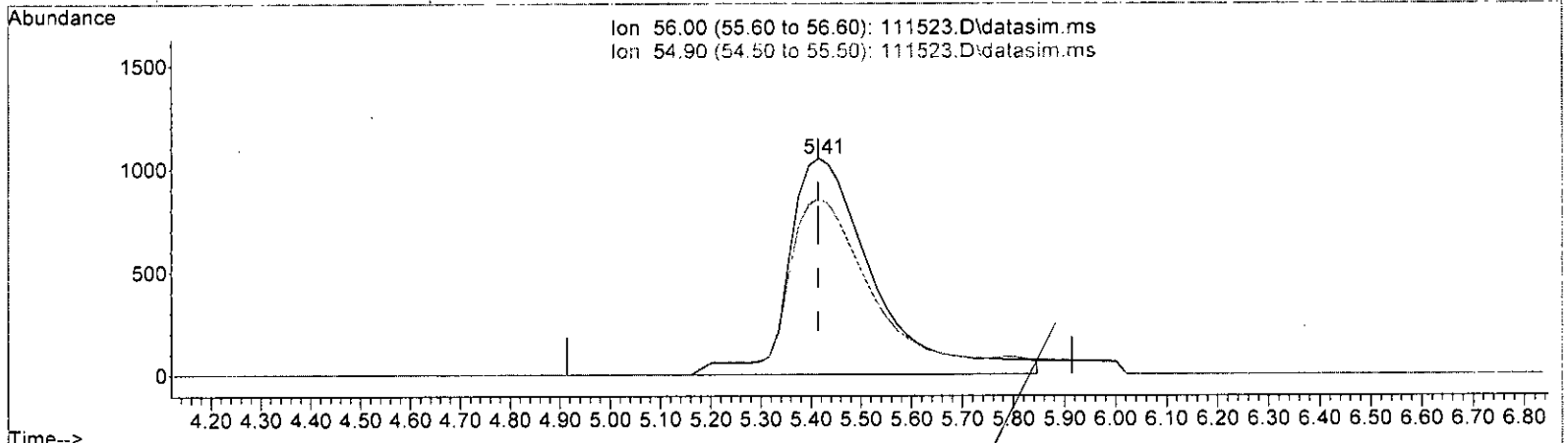
(11)	Vinyl bromide (TMP)		
5.317min (+ 0.000)	2.623 ppbv m		
response	25352		
Ion	Exp%	Act%	
105.90	100.00	100.00	
107.90	94.10	109.26	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

(13) Acrolein (TMP)  
 5.415min (-0.000) 2.973 ppbv

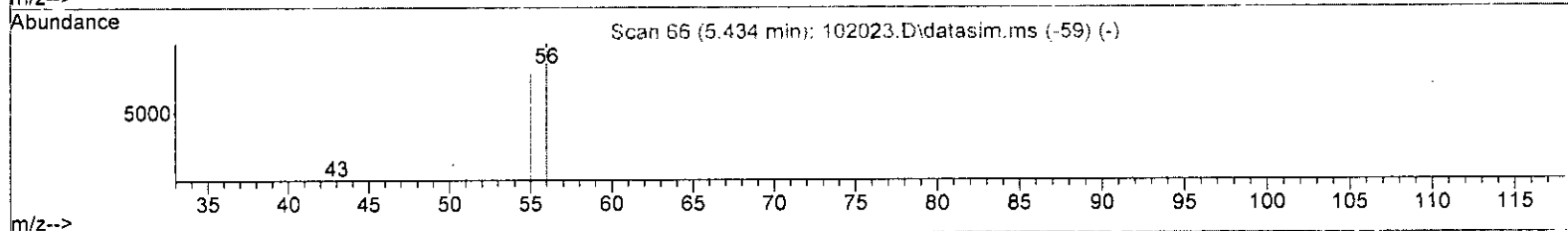
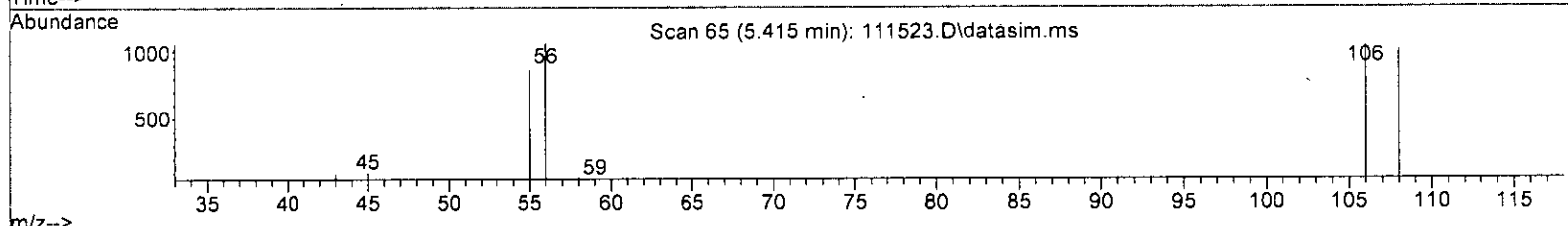
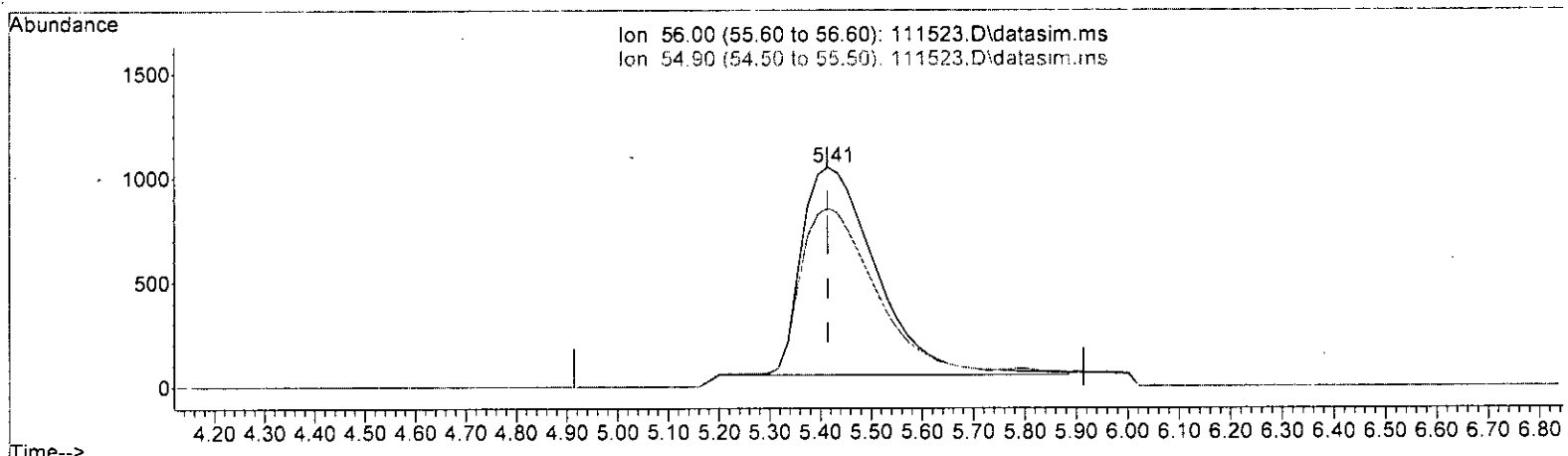
response	13014
Ion	Exp% Act%
56.00	100.00 100.00
54.90	81.00 82.96
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature: W/ack*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

(13) Acrolein (TMP)

5.415min (-0.000) 2.310 ppbv m

response	10114	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	106.75
0.00	0.00	0.00
0.00	0.00	0.00

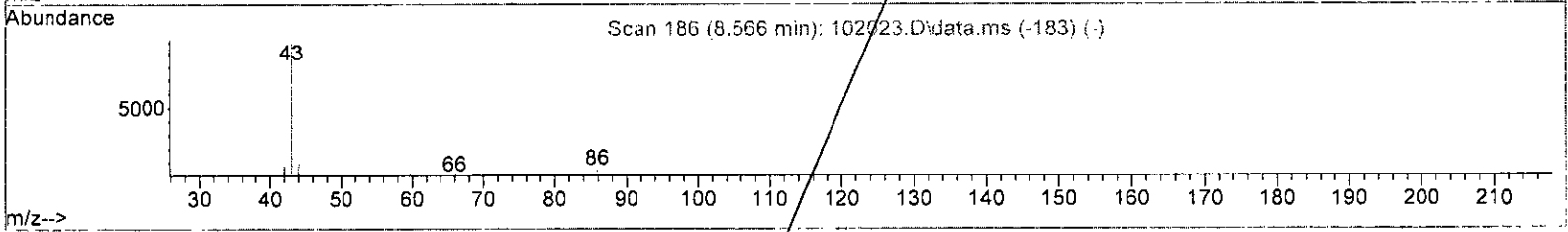
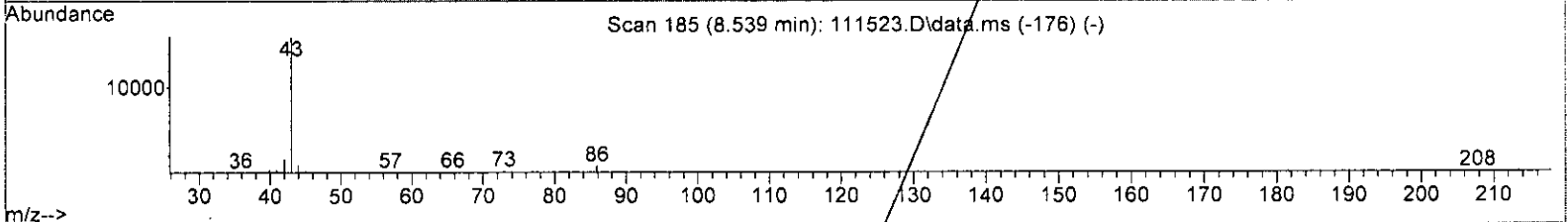
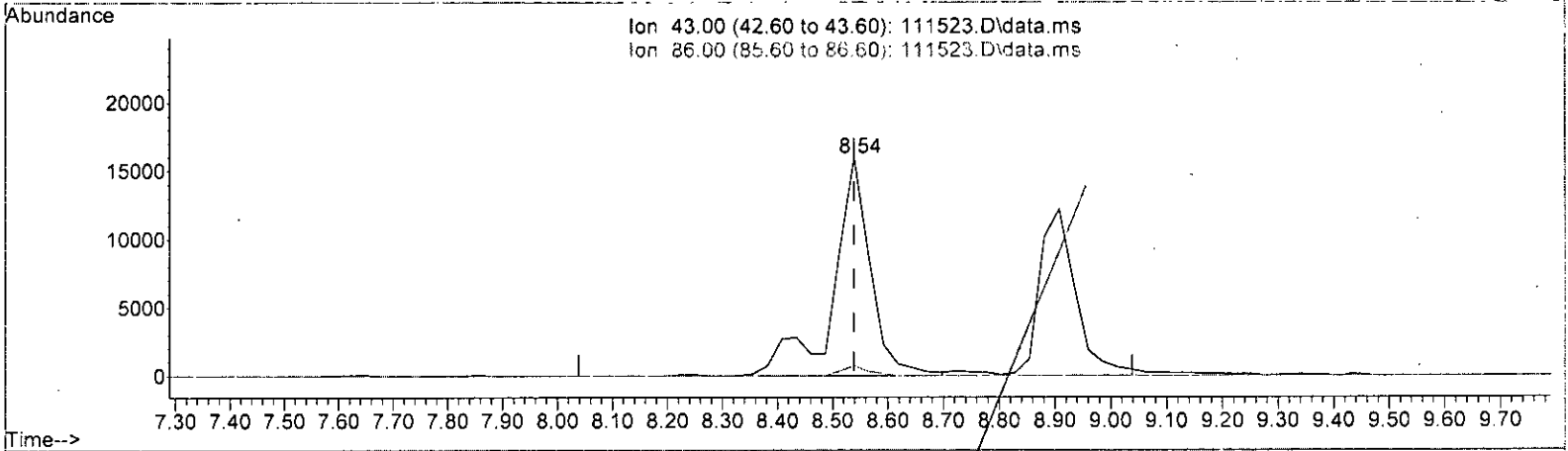
*Handwritten signature*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

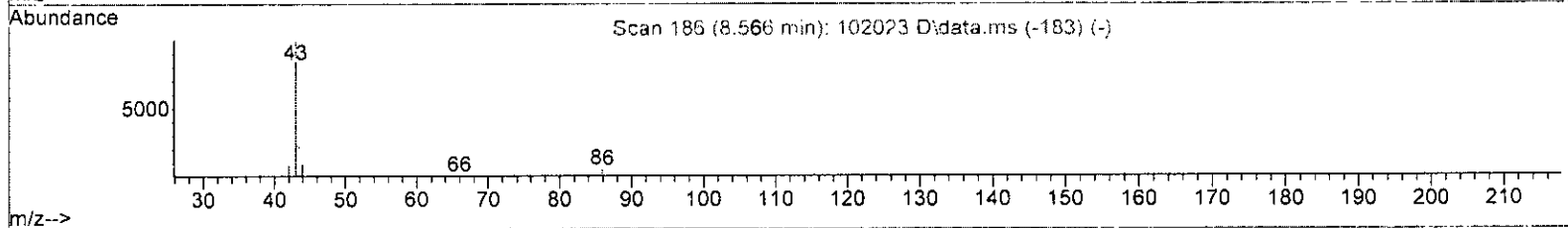
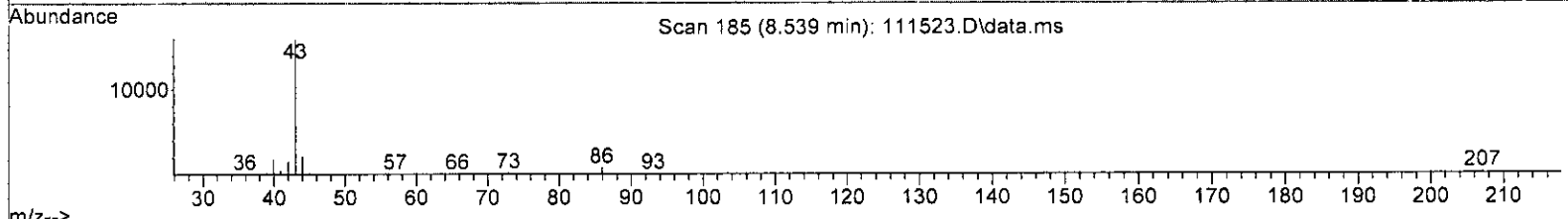
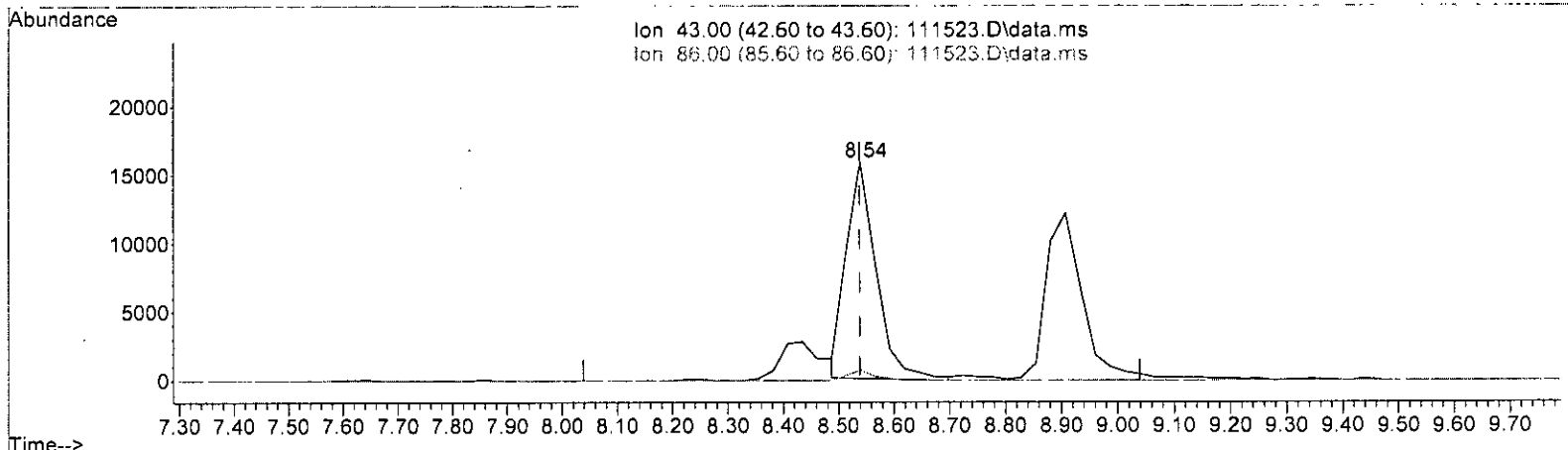
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000)	3.292 ppbv	
response	75158	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	4.80
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

(26) Vinyl acetate (TMP)  
 8.539min (+ 0.000) 2.584 ppbv m

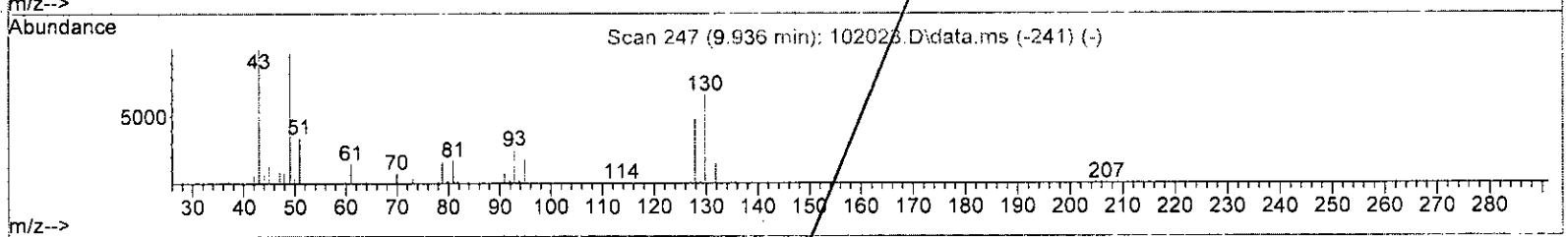
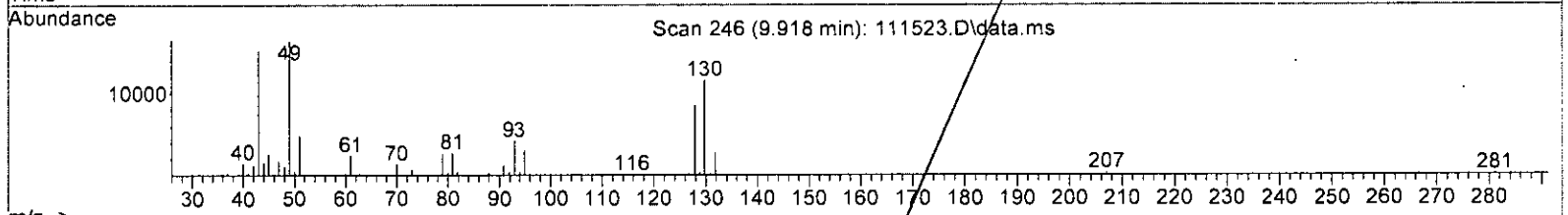
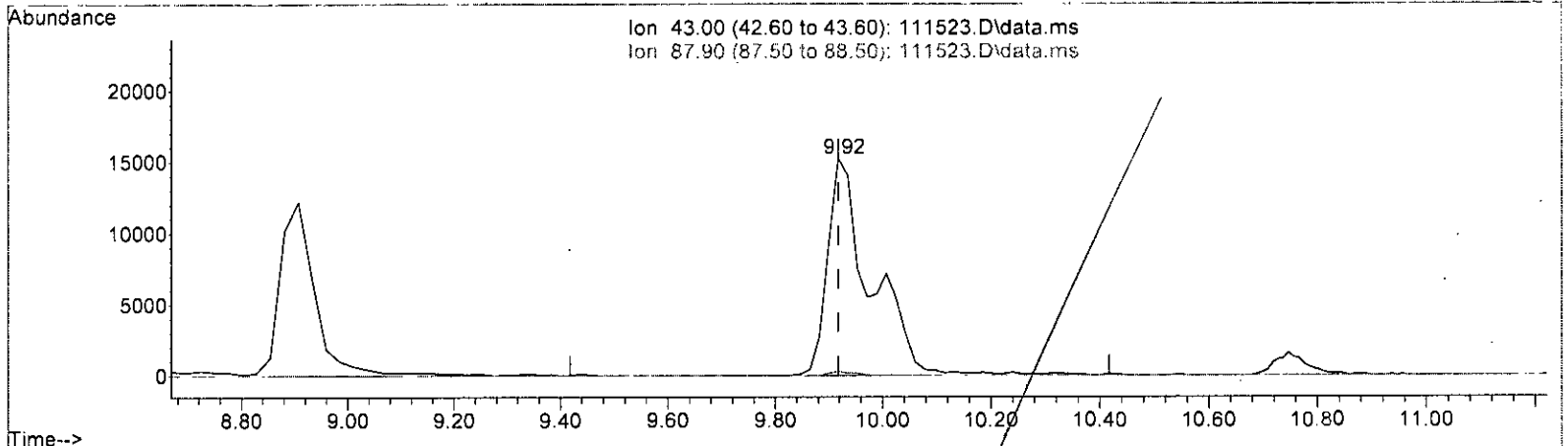
response	58983
Ion	Exp% Act%
43.00	100.00 100.00
86.00	4.20 4.80
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

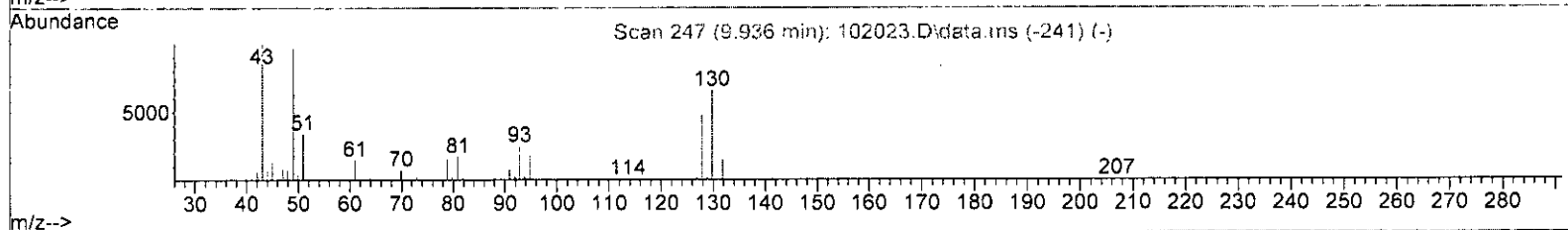
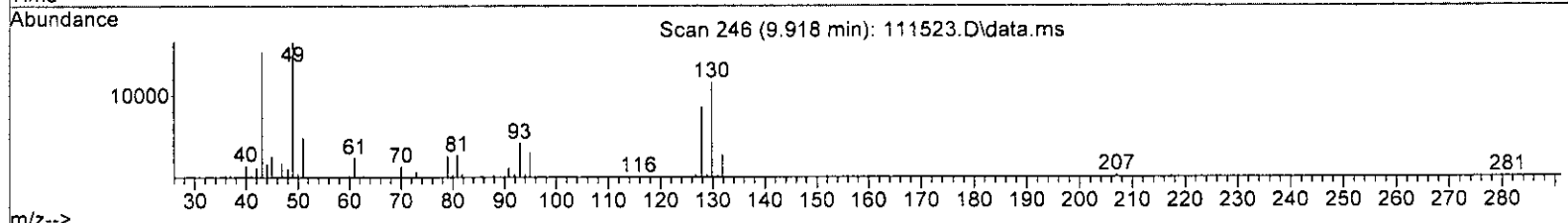
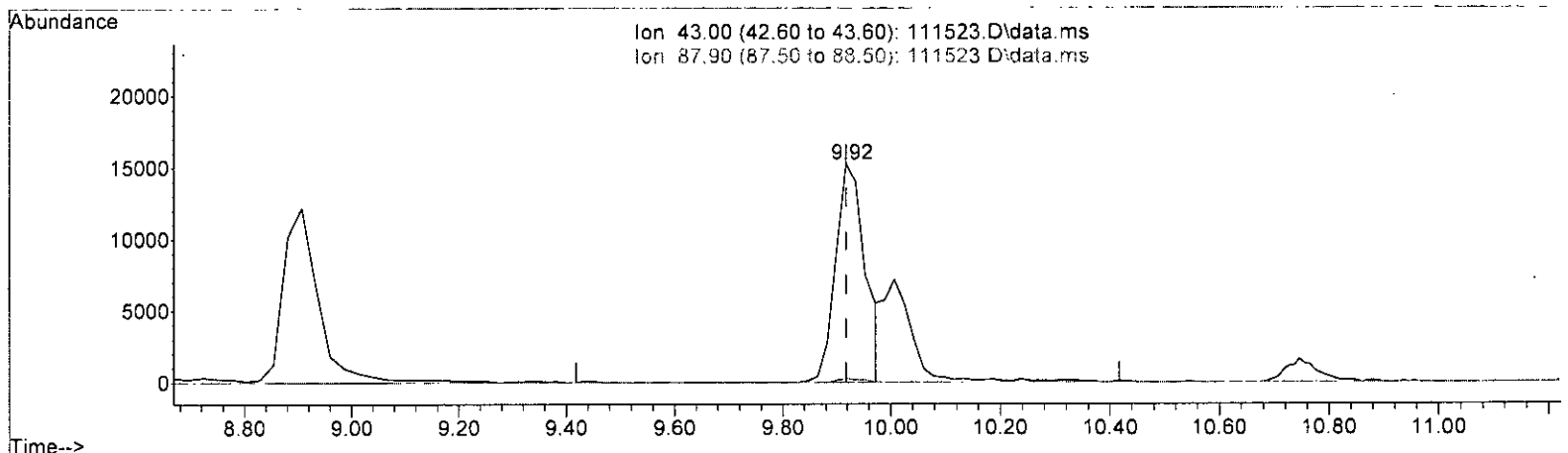
(31) Ethyl acetate (TMP)		
9.918min (-0.000)	3.705 ppbv	
response	84305	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.99#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111523.D\data.ms

(31) Ethyl acetate (TMP)		
9.918min (-0.000) 2.576 ppbv m		
response	58601	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	1.43
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	60056	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	277968	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	243467	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	181348	10.748	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	107.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	21323	2.683	ppbv	92
3) Dichlorodifluoromethane	3.49	85	64998	2.625	ppbv	97
4] Chloromethane	3.73	50	28666m	2.536	ppbv	
5) F-114	3.88	85	65533	2.588	ppbv	91
6] Vinyl chloride	4.09	62	27460	2.471	ppbv	99
7] 1,3-Butadiene	4.29	54	17873	2.447	ppbv #	92
8) Butane	4.32	43	34653	2.643	ppbv	99
9) Bromomethane	4.60	94	27894	2.515	ppbv	97
10] Chloroethane	4.84	64	10615m	2.701	ppbv	
11] Vinyl bromide	5.32	106	25352m	2.623	ppbv	
12) Ethanol	4.96	45	10811	2.714	ppbv	96
13] Acrolein	5.41	56	10114m	2.310	ppbv	
14) Pentane	6.25	43	39506	2.673	ppbv	99
15) Trichlorofluoromethane	5.84	101	77313	2.692	ppbv	97
16) Acetone	5.57	58	11787	2.763	ppbv #	64
17) 2-Propanol	5.78	45	47776	2.570	ppbv #	98
18] 1,1-Dichloroethene	6.63	96	24276	2.457	ppbv	90
19] trans-1,2-Dichloroethene	8.10	96	24299	2.532	ppbv #	76
20) Methylene chloride	6.80	84	24536	2.763	ppbv	98
21) t-Butyl alcohol (TBA)	6.57	59	39620	2.473	ppbv #	72
22) 3-Chloropropene	6.94	41	31275	2.533	ppbv #	88
23) CFC-113	7.15	101	56318	2.703	ppbv	99
24) Carbon disulfide	7.28	76	88234	2.844	ppbv	93
25) Methyl t-butyl ether (...)	8.43	73	55056	2.670	ppbv	98
26) Vinyl acetate	8.54	43	58983m	2.584	ppbv	
27] 1,1-Dichloroethane	8.36	63	52610	2.621	ppbv	98
28] cis-1,2-Dichloroethene	9.64	96	25628	2.525	ppbv	98
29) Hexane	10.01	57	31847	2.564	ppbv	86
30] Chloroform	10.10	83	61101	2.649	ppbv	100
31) Ethyl acetate	9.92	43	58601m	2.576	ppbv	
32) Tetrahydrofuran	10.75	42	26759	2.462	ppbv	97
33) 2-Butanone (MEK)	8.91	72	10008	2.693	ppbv #	88
34] 1,2-Dichloroethane (EDC)	11.34	62	40299	2.620	ppbv	99
35] 1,1,1-Trichloroethane	11.83	97	55317	2.755	ppbv	97
36] Carbon tetrachloride	12.86	117	57033	2.696	ppbv	98
37] Benzene	12.61	78	82709	2.633	ppbv	96
38) Cyclohexane	13.07	84	21838	2.660	ppbv	97
40] 1,2-Dichloropropane	13.80	63	38307	2.545	ppbv	99

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

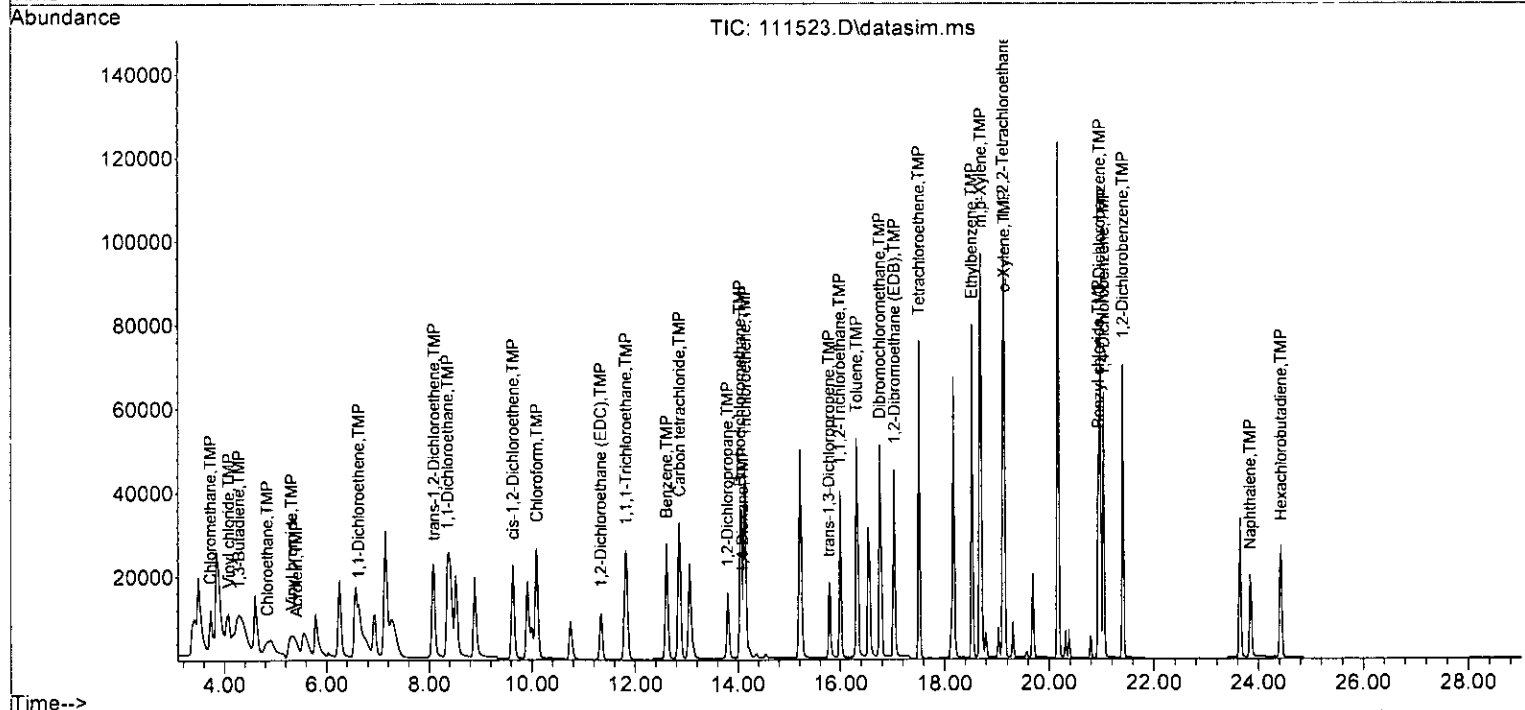
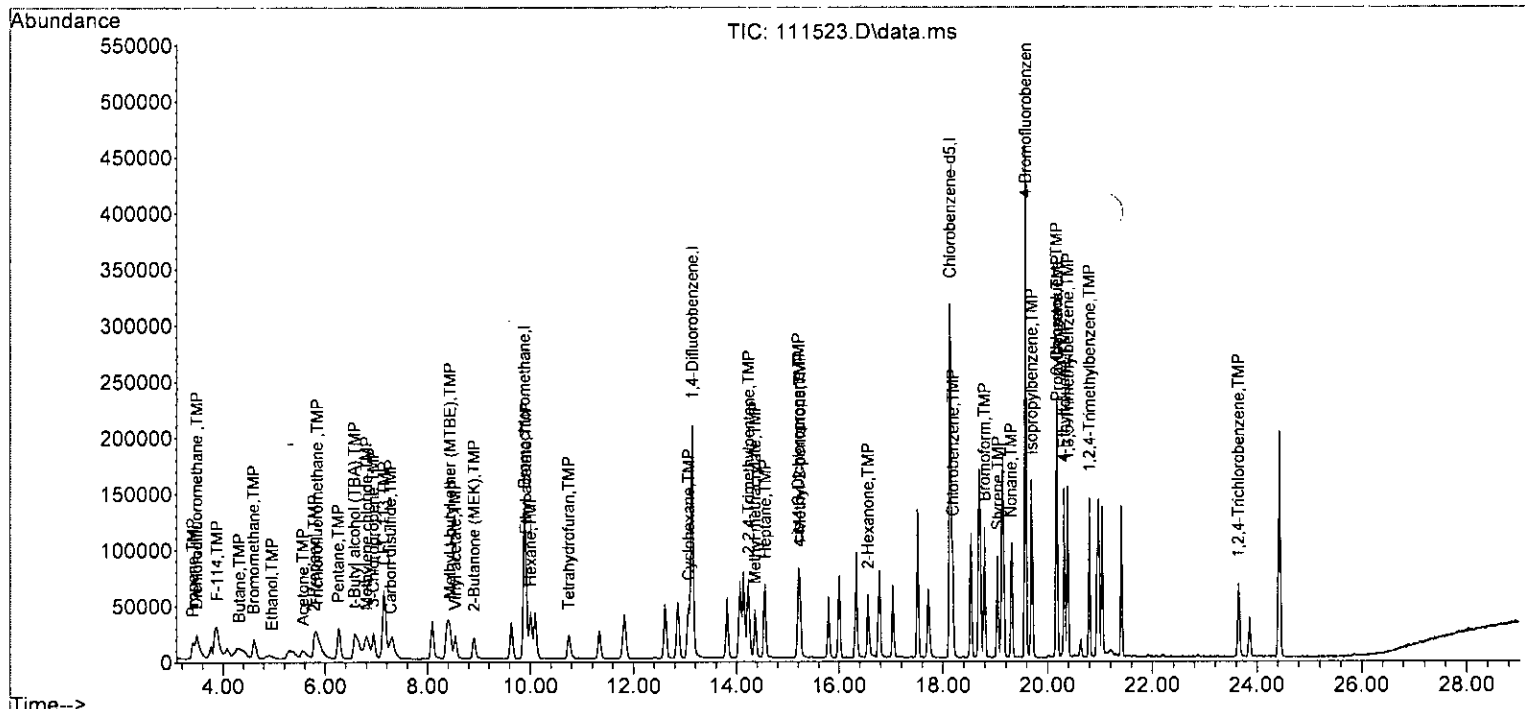
Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	15320	2.394	ppbv	80
42) 2,2,4-Trimethylpentane	14.24	57	115958	2.610	ppbv	90
43) Methyl methacrylate	14.36	41	36245	2.687	ppbv	95
44) Heptane	14.56	43	47895	2.597	ppbv	99
45] Bromodichloromethane	14.04	83	63564	2.692	ppbv	100
46] Trichloroethene	14.14	95	40195	2.438	ppbv	95
47) cis-1,3-Dichloropropene	15.20	75	45543	2.737	ppbv	96
48) 4-Methyl-2-pentanone	15.23	100	3158	2.567	ppbv #	63
49] trans-1,3-Dichloropropene	15.78	75	41889	2.676	ppbv	82
50] Toluene	16.31	92	51083	2.599	ppbv	98
51] 1,1,2-Trichloroethane	16.00	83	38068	2.658	ppbv	93
52) 2-Hexanone	16.56	43	60033	2.552	ppbv	96
53] Tetrachloroethene	17.52	164	35587	2.614	ppbv	91
54] Dibromochloromethane	16.76	129	63104	2.637	ppbv	98
55] 1,2-Dibromoethane (EDB)	17.04	107	55696	2.638	ppbv	97
57) Chlorobenzene	18.19	112	69826	2.605	ppbv	100
58] Ethylbenzene	18.53	91	114645	2.635	ppbv	97
59] 1,1,2,2-Tetrachloroethane	19.13	83	86666	2.682	ppbv	93
60) Nonane	19.30	43	64182	2.688	ppbv	97
61) Isopropylbenzene	19.70	105	121554	2.786	ppbv	100
62) 2-Chlorotoluene	20.17	126	29823	2.734	ppbv	86
63) Propylbenzene	20.19	91	226210	2.822	ppbv	99
64) 4-Ethyltoluene	20.32	105	102001	2.600	ppbv	98
65] m,p-Xylene	18.70	106	81611	5.293	ppbv	96
66] o-Xylene	19.15	106	40170	2.684	ppbv	99
67) Styrene	19.05	104	52474	2.632	ppbv	100
68) Bromoform	18.80	173	67371	2.691	ppbv	98
70] Benzyl chloride	20.95	91	75836	2.686	ppbv	99
71) 1,3,5-Trimethylbenzene	20.39	105	100545	2.848	ppbv	97
72) 1,2,4-Trimethylbenzene	20.80	105	82752	2.523	ppbv	98
73] 1,3-Dichlorobenzene	20.98	146	67062	2.722	ppbv	99
74] 1,4-Dichlorobenzene	21.05	146	61423	2.664	ppbv	99
75] 1,2-Dichlorobenzene	21.41	146	67758	2.717	ppbv	94
76) 1,2,4-Trichlorobenzene	23.64	180	33194	2.177	ppbv	93
77] Naphthalene	23.84	128	43756	2.225	ppbv	98
78] Hexachlorobutadiene	24.44	225	64925	2.553	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP	Propene	2.500	2.683	-7.3	100	0.00
3 TMP	Dichlorodifluoromethane	2.500	2.625	-5.0	100	0.00
4 TMP	Chloromethane	2.500	2.536	-1.4	101	0.00
5 TMP	F-114	2.500	2.588	-3.5	104	0.00
6 TMP	Vinyl chloride	2.500	2.471	1.2	100	0.00
7 TMP	1,3-Butadiene	2.500	2.447	2.1	100	0.00
8 TMP	Butane	2.500	2.643	-5.7	100	0.00
9 TMP	Bromomethane	2.500	2.515	-0.6	100	0.00
10 TMP	Chloroethane	2.500	2.701	-8.0	101	0.00
11 TMP	Vinyl bromide	2.500	2.623	-4.9	99	0.00
12 TMP	Ethanol	2.500	2.714	-8.6	100	0.00
13 TMP	Acrolein	2.500	2.310	7.6	102	0.00
14 TMP	Pentane	2.500	2.673	-6.9	100	0.00
15 TMP	Trichlorofluoromethane	2.500	2.692	-7.7	99	0.00
16 TMP	Acetone	2.500	2.763	-10.5	100	0.00
17 TMP	2-Propanol	2.500	2.570	-2.8	98	0.00
18 TMP	1,1-Dichloroethene	2.500	2.457	1.7	100	0.00
19 TMP	trans-1,2-Dichloroethene	2.500	2.532	-1.3	100	0.00
20 TMP	Methylene chloride	2.500	2.763	-10.5	100	0.00
21 TMP	t-Butyl alcohol (TBA)	2.500	2.473	1.1	100	0.00
22 TMP	3-Chloropropene	2.500	2.533	-1.3	100	0.00
23 TMP	CFC-113	2.500	2.703	-8.1	100	0.00
24 TMP	Carbon disulfide	2.500	2.844	-13.8	100	0.00
25 TMP	Methyl t-butyl ether (MTBE)	2.500	2.670	-6.8	100	0.00
26 TMP	Vinyl acetate	2.500	2.584	-3.4	96	0.00
27 TMP	1,1-Dichloroethane	2.500	2.621	-4.8	100	0.00
28 TMP	cis-1,2-Dichloroethene	2.500	2.525	-1.0	100	0.00
29 TMP	Hexane	2.500	2.564	-2.6	100	0.00
30 TMP	Chloroform	2.500	2.649	-6.0	100	0.00
31 TMP	Ethyl acetate	2.500	2.576	-3.0	101	0.00
32 TMP	Tetrahydrofuran	2.500	2.462	1.5	100	0.00
33 TMP	2-Butanone (MEK)	2.500	2.693	-7.7	100	0.00
34 TMP	1,2-Dichloroethane (EDC)	2.500	2.620	-4.8	100	0.00
35 TMP	1,1,1-Trichloroethane	2.500	2.755	-10.2	100	0.00
36 TMP	Carbon tetrachloride	2.500	2.696	-7.8	100	0.00
37 TMP	Benzene	2.500	2.633	-5.3	100	0.00
38 TMP	Cyclohexane	2.500	2.660	-6.4	100	0.00
39 I	1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	2.500	2.545	-1.8	100	0.00
41 TMP	1,4-Dioxane	2.500	2.394	4.2	100	0.00
42 TMP	2,2,4-Trimethylpentane	2.500	2.610	-4.4	100	0.00
43 TMP	Methyl methacrylate	2.500	2.687	-7.5	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	2.500	2.597	-3.9	100	0.00
45 TMP Bromodichloromethane	2.500	2.692	-7.7	100	0.00
46 TMP Trichloroethene	2.500	2.438	2.5	100	0.00
47 TMP cis-1,3-Dichloropropene	2.500	2.737	-9.5	100	0.00
48 TMP 4-Methyl-2-pentanone	2.500	2.567	-2.7	100	0.00
49 TMP trans-1,3-Dichloropropene	2.500	2.676	-7.0	100	0.00
50 TMP Toluene	2.500	2.599	-4.0	100	0.00
51 TMP 1,1,2-Trichloroethane	2.500	2.658	-6.3	100	0.00
52 TMP 2-Hexanone	2.500	2.552	-2.1	100	0.00
53 TMP Tetrachloroethene	2.500	2.614	-4.6	100	0.00
54 TMP Dibromochloromethane	2.500	2.637	-5.5	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	2.500	2.638	-5.5	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	2.500	2.605	-4.2	100	0.00
58 TMP Ethylbenzene	2.500	2.635	-5.4	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	2.500	2.682	-7.3	100	0.00
60 TMP Nonane	2.500	2.688	-7.5	100	0.00
61 TMP Isopropylbenzene	2.500	2.786	-11.4	100	0.00
62 TMP 2-Chlorotoluene	2.500	2.734	-9.4	100	0.00
63 TMP Propylbenzene	2.500	2.822	-12.9	100	0.00
64 TMP 4-Ethyltoluene	2.500	2.600	-4.0	100	0.00
65 TMP m,p-Xylene	5.000	5.293	-5.9	100	0.00
66 TMP o-Xylene	2.500	2.684	-7.4	100	0.00
67 TMP Styrene	2.500	2.632	-5.3	100	0.00
68 TMP Bromoform	2.500	2.691	-7.6	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.748	-7.5	100	0.00
70 TMP Benzyl chloride	2.500	2.686	-7.4	101	0.00
71 TMP 1,3,5-Trimethylbenzene	2.500	2.848	-13.9	100	0.00
72 TMP 1,2,4-Trimethylbenzene	2.500	2.523	-0.9	100	0.00
73 TMP 1,3-Dichlorobenzene	2.500	2.722	-8.9	100	0.00
74 TMP 1,4-Dichlorobenzene	2.500	2.664	-6.6	100	0.00
75 TMP 1,2-Dichlorobenzene	2.500	2.717	-8.7	100	0.00
76 TMP 1,2,4-Trichlorobenzene	2.500	2.177	12.9	100	0.00
77 TMP Naphthalene	2.500	2.225	11.0	100	0.00
78 TMP Hexachlorobutadiene	2.500	2.553	-2.1	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.420	8.7	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.329	-5.0	100	0.00
4 TMP Chloromethane	1.882	1.909	-1.4	101	0.00
5 TMP F-114	4.217	4.365	-3.5	104	0.00
6 TMP Vinyl chloride	1.851	1.829	1.2	100	0.00
7 TMP 1,3-Butadiene	1.216	1.190	2.1	100	0.00
8 TMP Butane	2.183	2.308	-5.7	100	0.00
9 TMP Bromomethane	1.847	1.858	-0.6	100	0.00
10 TMP Chloroethane	0.655	0.707	-7.9	101	0.00
11 TMP Vinyl bromide	1.609	1.689	-5.0	99	0.00
12 TMP Ethanol	0.663	0.720	-8.6	100	0.00
13 TMP Acrolein	0.729	0.674	7.5	102	0.00
14 TMP Pentane	2.461	2.631	-6.9	100	0.00
15 TMP Trichlorofluoromethane	4.781	5.149	-7.7	99	0.00
16 TMP Acetone	0.710	0.785	-10.6	100	0.00
17 TMP 2-Propanol	3.096	3.182	-2.8	98	0.00
18 TMP 1,1-Dichloroethene	1.645	1.617	1.7	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.618	-1.3	100	0.00
20 TMP Methylene chloride	1.479	1.634	-10.5	100	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.639	1.1	100	0.00
22 TMP 3-Chloropropene	2.056	2.083	-1.3	100	0.00
23 TMP CFC-113	3.469	3.751	-8.1	100	0.00
24 TMP Carbon disulfide	5.167	5.877	-13.7	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.667	-6.8	100	0.00
26 TMP Vinyl acetate	3.801	3.929	-3.4	96	0.00
27 TMP 1,1-Dichloroethane	3.342	3.504	-4.8	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.707	-1.0	100	0.00
29 TMP Hexane	2.068	2.121	-2.6	100	0.00
30 TMP Chloroform	4.060	4.070	-0.2	100	0.00
31 TMP Ethyl acetate	3.789	3.903	-3.0	101	0.00
32 TMP Tetrahydrofuran	1.809	1.782	1.5	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.667	-7.8	100	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.684	0.1	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.684	-10.2	100	0.00
36 TMP Carbon tetrachloride	3.523	3.799	-7.8	100	0.00
37 TMP Benzene	5.688	5.509	3.1	100	0.00
38 TMP Cyclohexane	1.367	1.455	-6.4	100	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.551	-1.8	100	0.00
41 TMP 1,4-Dioxane	0.230	0.220	4.3	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.669	-4.4	100	0.00
43 TMP Methyl methacrylate	0.485	0.522	-7.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111523.D  
 Acq On : 16 Nov 2022 8:25 am  
 Operator : bat  
 Sample : 2.5 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 23 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:53:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.689	-3.9	100	0.00
45 TMP Bromodichloromethane	0.850	0.915	-7.6	100	0.00
46 TMP Trichloroethene	0.593	0.578	2.5	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.655	-9.3	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.045	-2.3	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.603	-7.1	100	0.00
50 TMP Toluene	0.707	0.735	-4.0	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.548	0.4	100	0.00
52 TMP 2-Hexanone	0.846	0.864	-2.1	100	0.00
53 TMP Tetrachloroethene	0.490	0.512	-4.5	100	0.00
54 TMP Dibromochloromethane	0.861	0.908	-5.5	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.801	2.8	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.147	-4.2	100	0.00
58 TMP Ethylbenzene	1.968	1.884	4.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.424	-2.2	100	0.00
60 TMP Nonane	0.981	1.054	-7.4	100	0.00
61 TMP Isopropylbenzene	1.792	1.997	-11.4	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.490	-9.4	100	0.00
63 TMP Propylbenzene	3.292	3.716	-12.9	100	0.00
64 TMP 4-Ethyltoluene	1.611	1.676	-4.0	100	0.00
65 TMP m,p-Xylene	0.633	0.670	-5.8	100	0.00
66 TMP o-Xylene	0.615	0.660	-7.3	100	0.00
67 TMP Styrene	0.819	0.862	-5.3	100	0.00
68 TMP Bromoform	1.028	1.107	-7.7	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.745	-7.5	100	0.00
70 TMP Benzyl chloride	0.987	1.246	-26.2	101	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.652	-13.9	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.360	-9.1	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.102	-8.9	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.009	-6.5	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.113	-8.7	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.545	12.9	100	0.00
77 TMP Naphthalene	1.132	0.719	36.5#	100	0.00
78 TMP Hexachlorobutadiene	1.045	1.067	-2.1	100	0.00

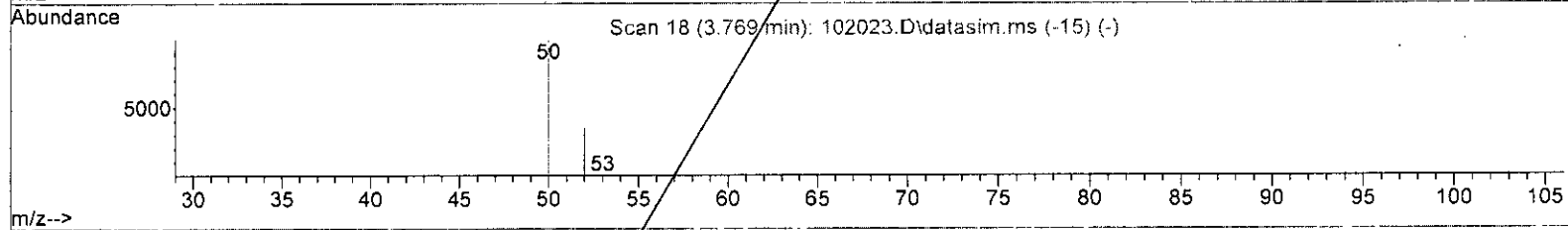
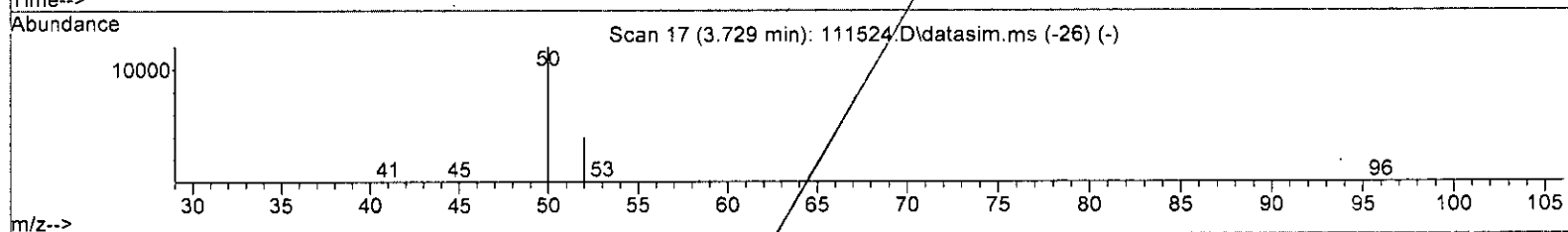
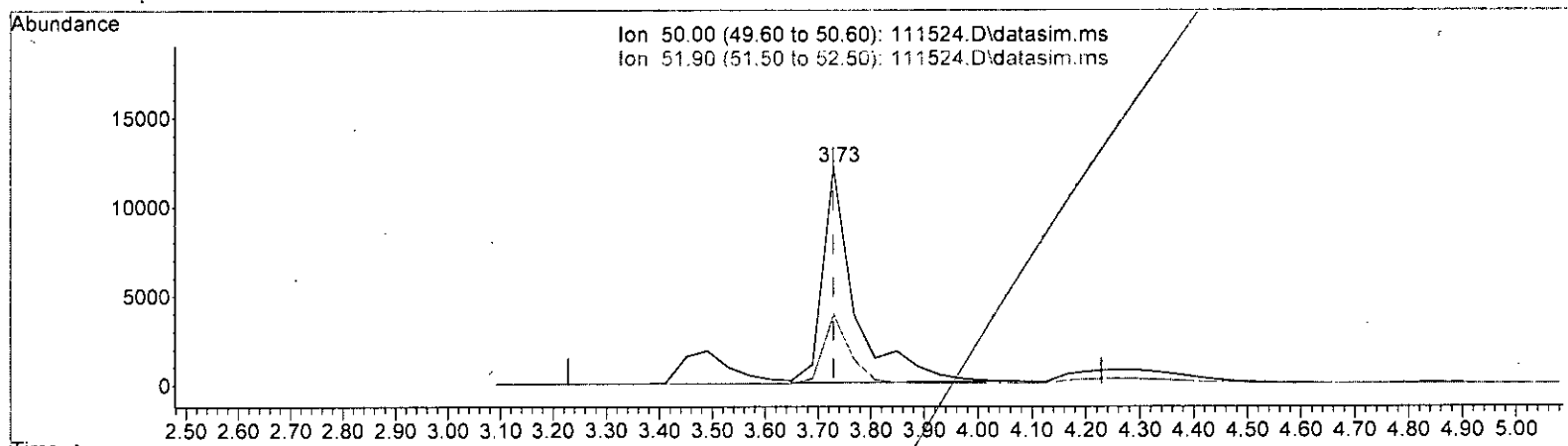
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111524.D\data.ms

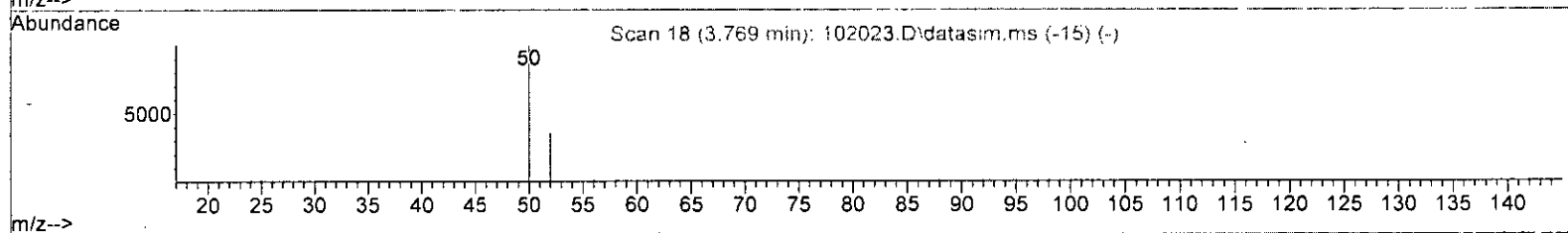
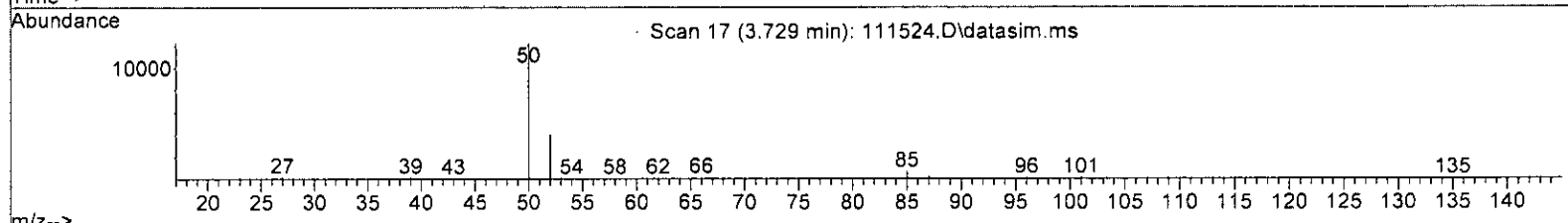
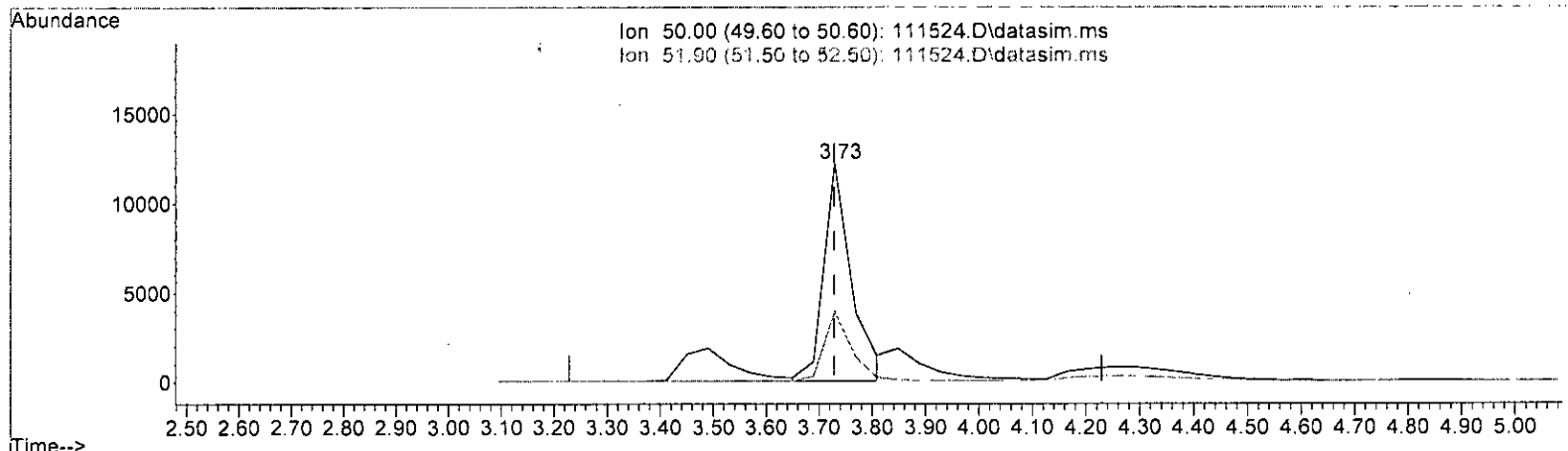
(4) Chloromethane (TMP)			
3.729min (+ 0.000)		4.481 ppbv	
response			
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	32.34	
0.00	0.00	0.00	
0.00	0.00	0.00	

4/1/2022

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111524.D\data.ms

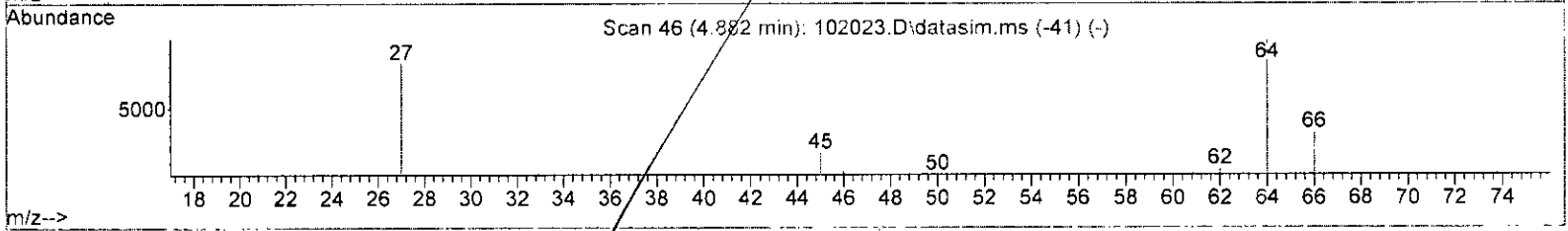
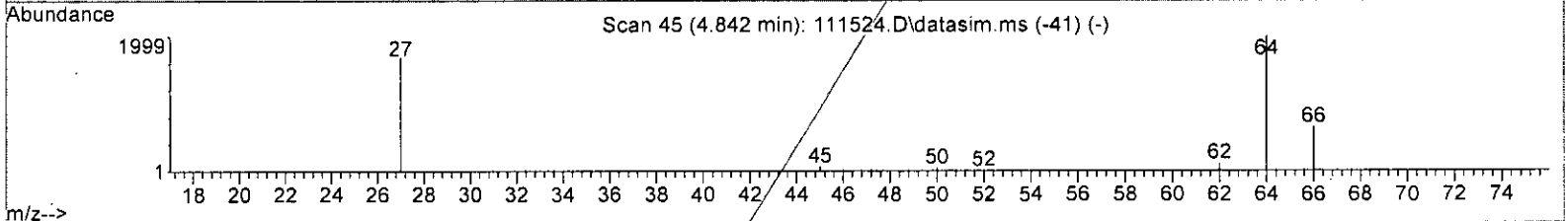
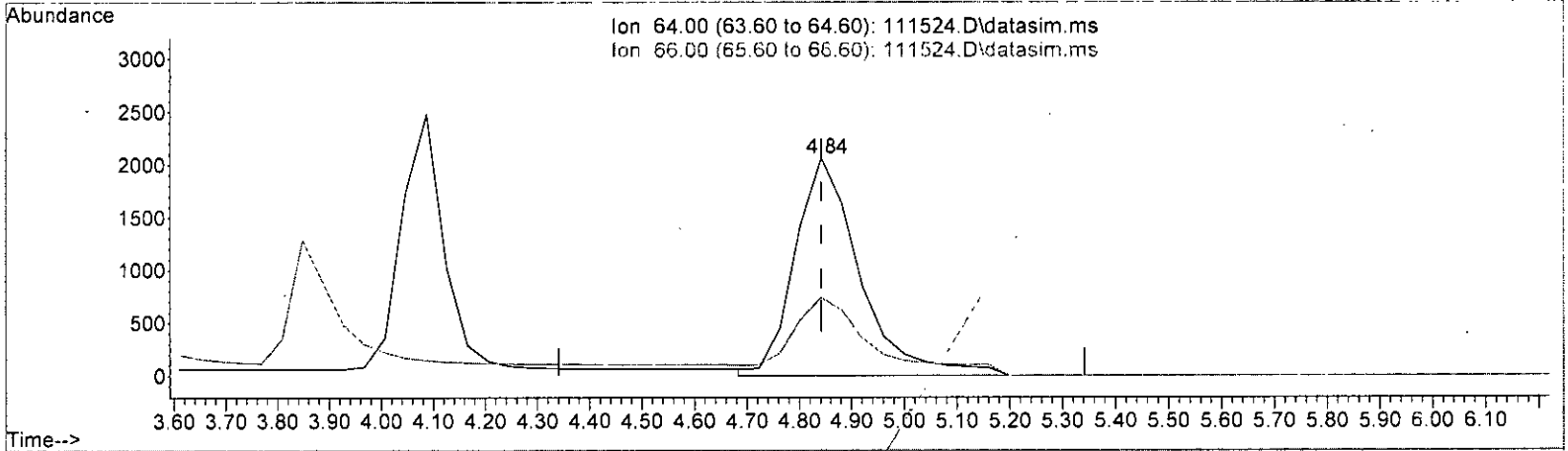
(4) Chloromethane (TMP)			
	3.729min (+ 0.000)	3.839	ppbv m
response	44175		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	32.44	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111524.D\data.ms

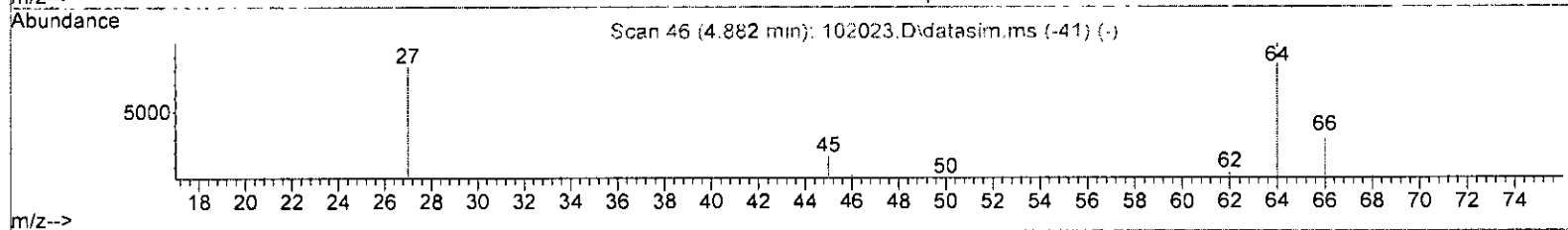
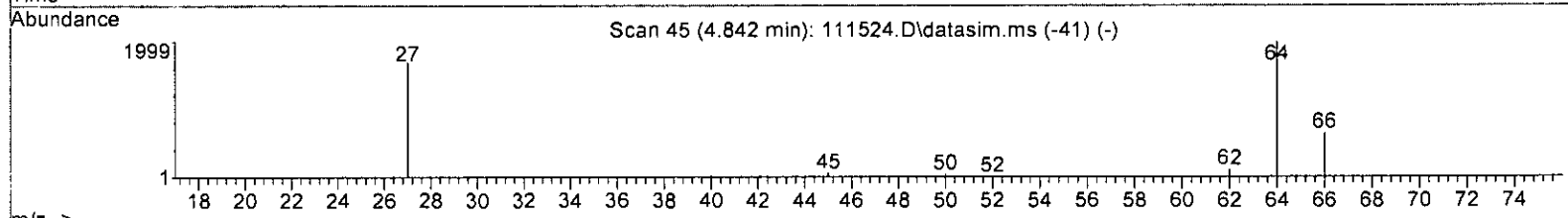
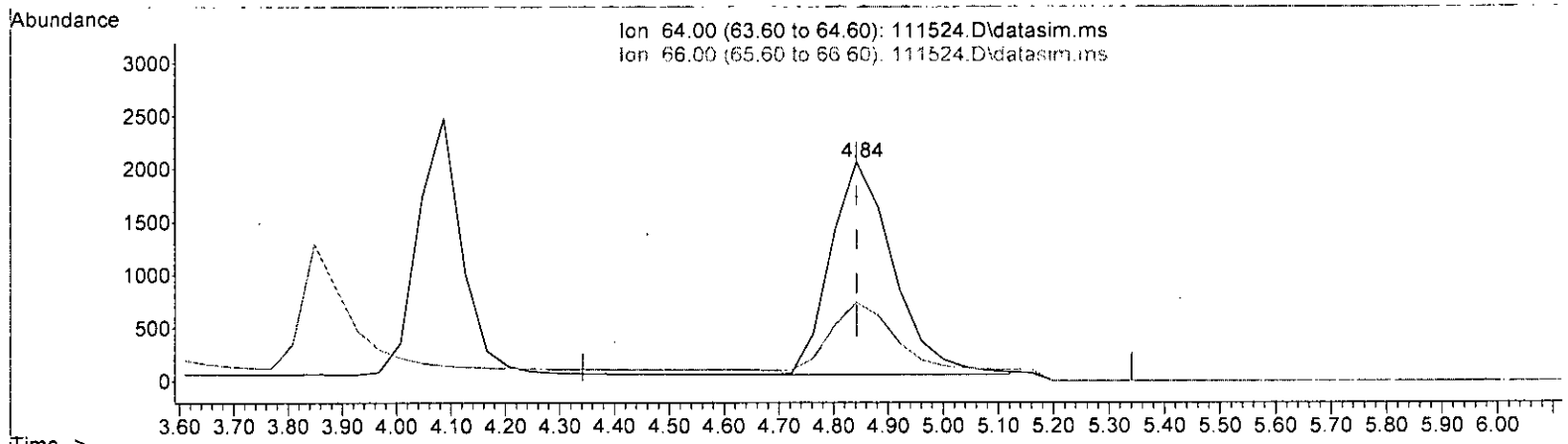
(10) Chloroethane (TMP)		
4.842min (-0.000)	4.267 ppbv	
response	17070	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	35.90
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature and date: 11/16/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111524.D\data.ms

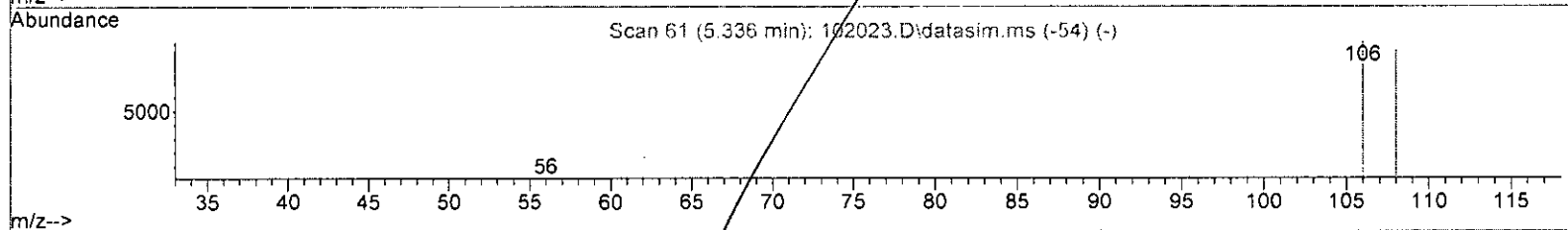
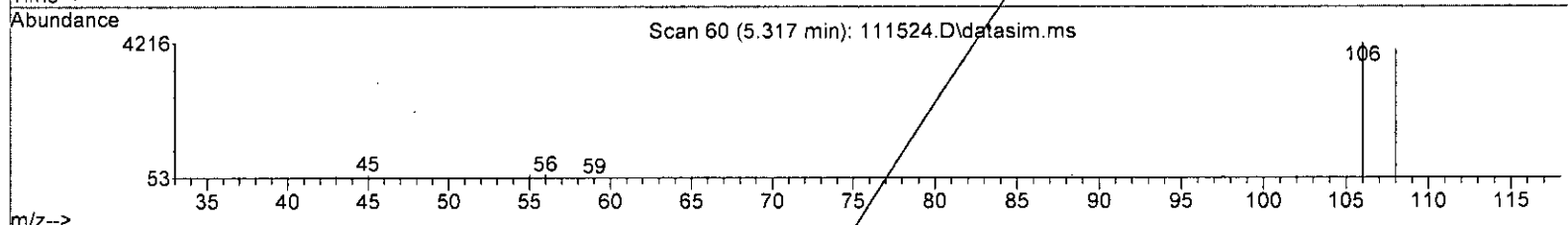
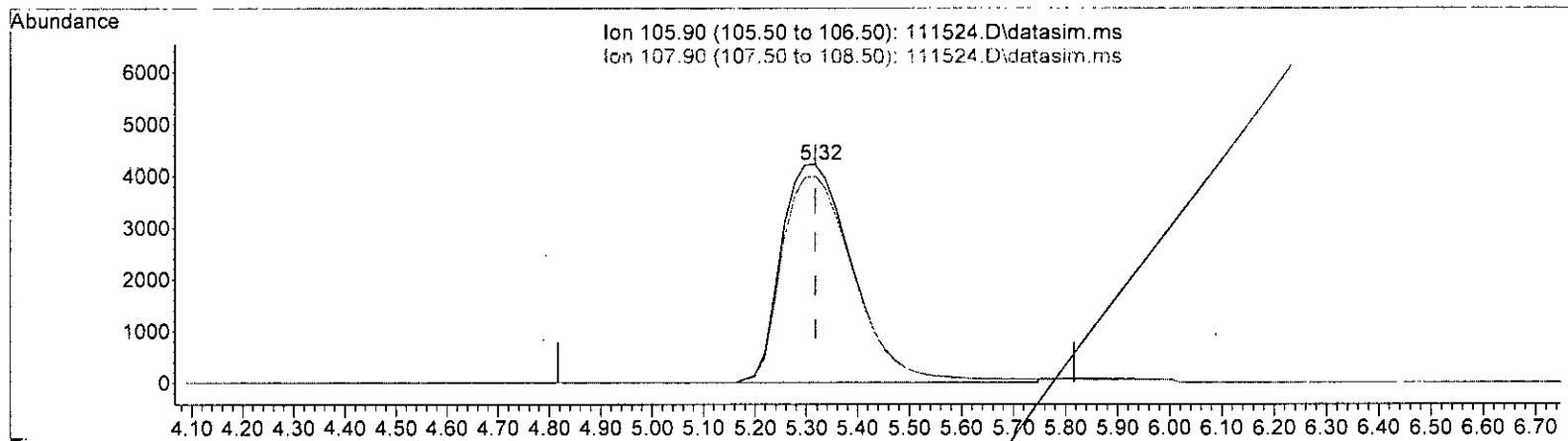
(10) Chloroethane (TMP)			
4.842min (-0.000) 3.999 ppbv m			
response	16000		
Ion	Exp%	Act%	
64.00	100.00	100.00	
66.00	31.80	35.90	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111524.D\data.ms

(11) Vinyl bromide (TMP)  
 5.317min (-0.000) 4.476 ppbv

response	44033
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 94.68
0.00	0.00 0.00
0.00	0.00 0.00

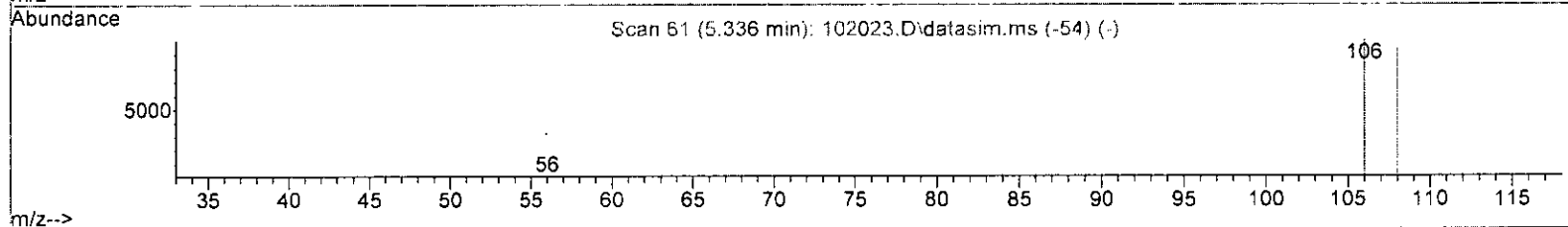
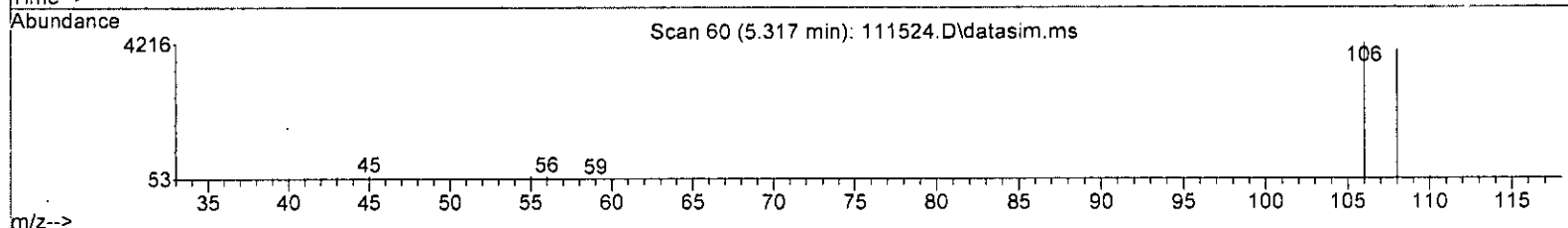
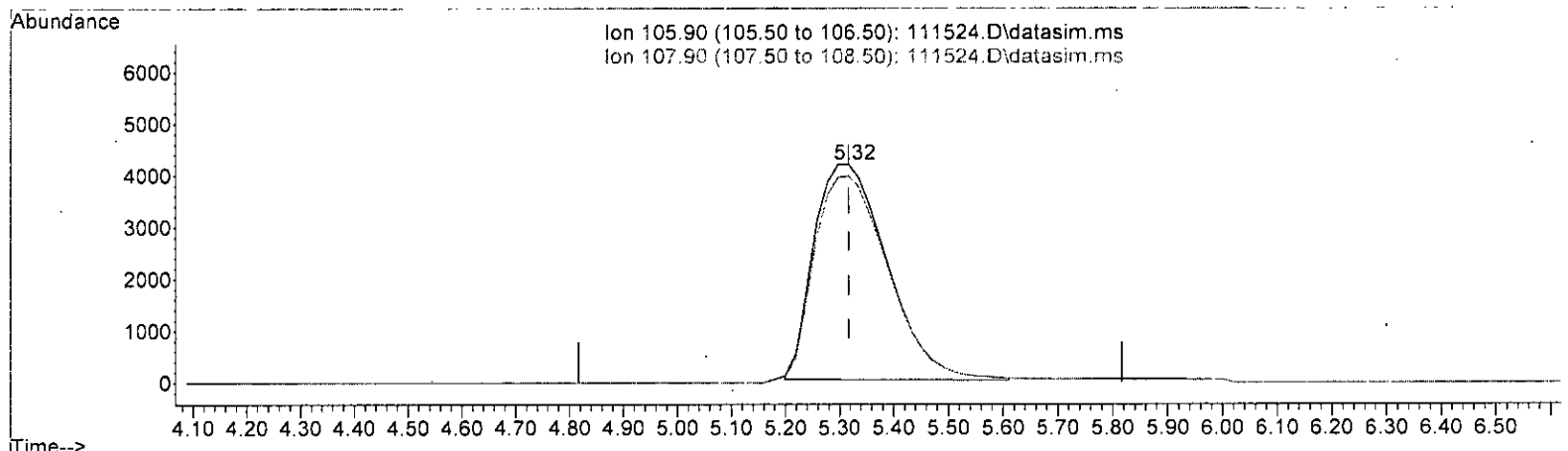
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111524.D\data.ms

(11) Vinyl bromide (TMP)

5.317min (-0.000) 3.982 ppbv m

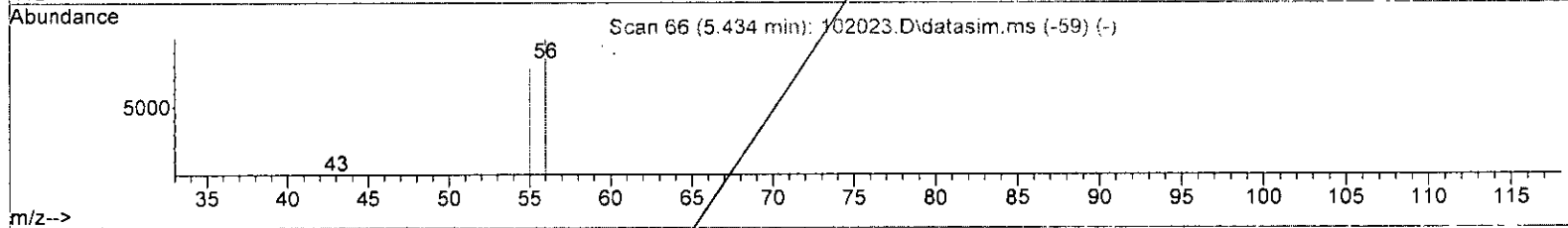
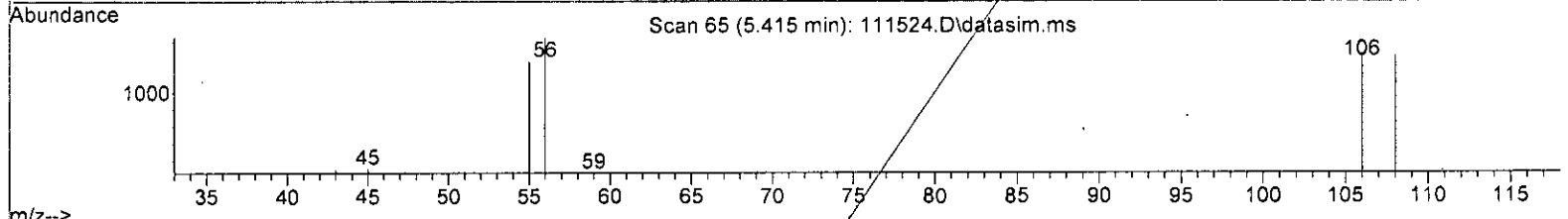
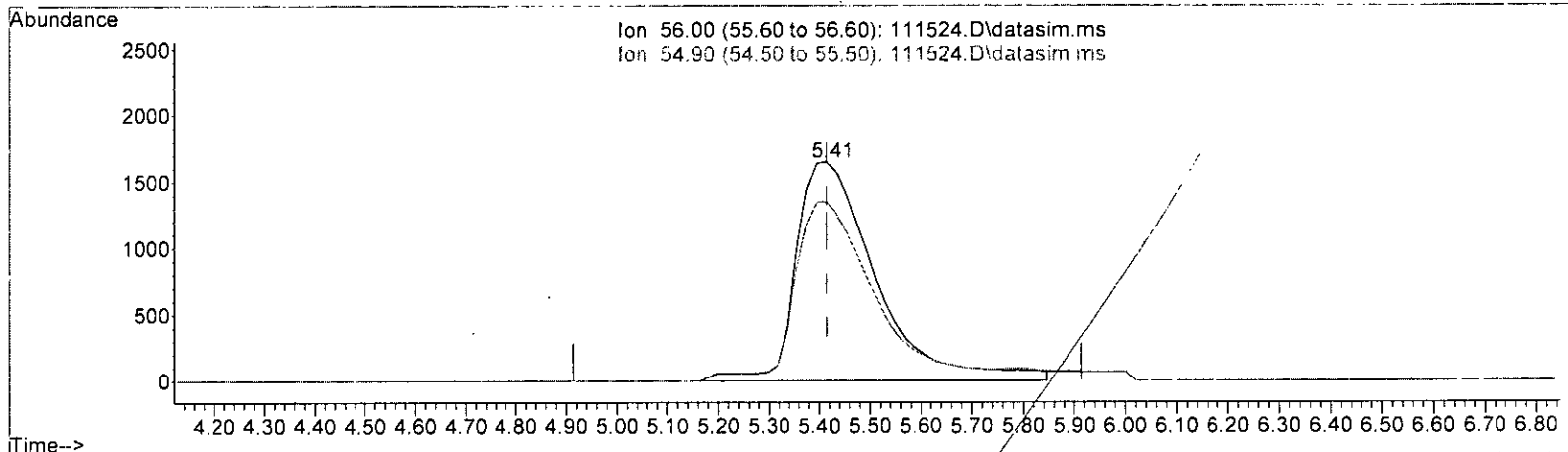
response	39173	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	106.42
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111524.D\data.ms

(13) Acrolein (TMP)  
 5.415min (-0.000) 4.283 ppbv

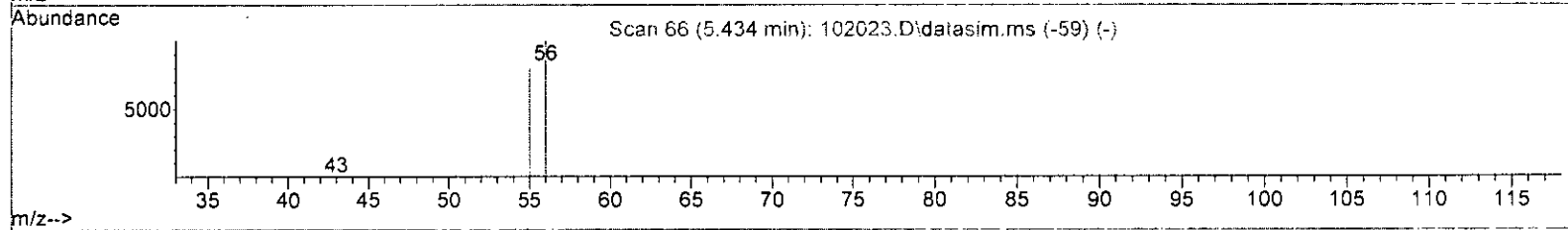
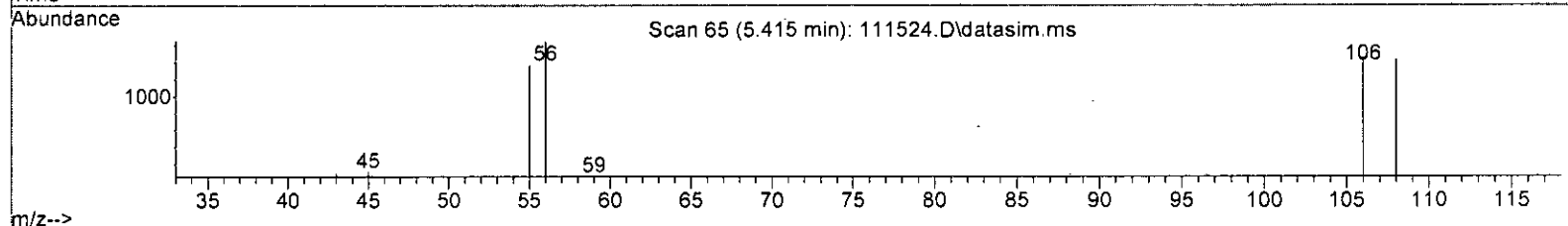
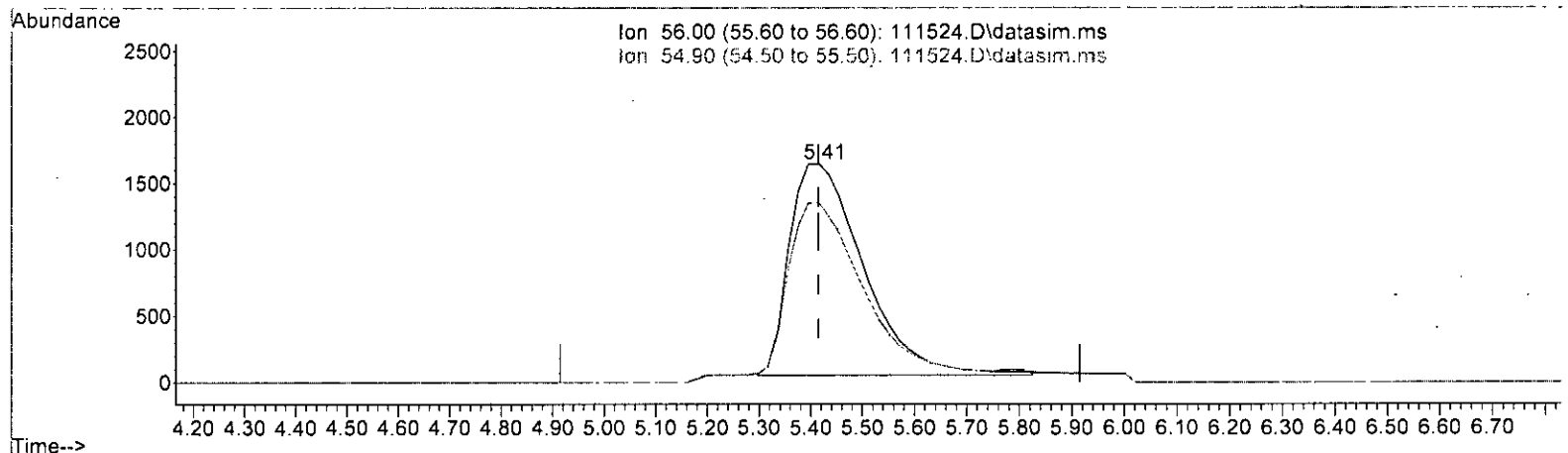
response	19080	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	69.88
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111524.D\data.ms

(13) Acrolein (TMP)  
 5.415min (-0.000) 3.543 ppbv m

response	15785
Ion	Exp% Act%
56.00	100.00 100.00
54.90	81.00 84.47
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	61124	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	281759	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	251020	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	183725	10.561	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	105.60%
Target Compounds						
					Qvalue	
2) Propene	3.41	41	33189	4.126	ppbv	100
3) Dichlorodifluoromethane	3.48	85	101066	4.011	ppbv	98
4) Chloromethane	3.73	50	44175m	3.839	ppbv	
5) F-114	3.84	85	102348	3.971	ppbv	97
6) Vinyl chloride	4.09	62	42585	3.765	ppbv	98
7) 1,3-Butadiene	4.25	54	27707	3.728	ppbv #	92
8) Butane	4.36	43	53087	3.979	ppbv	98
9) Bromomethane	4.60	94	41370	3.664	ppbv	99
10) Chloroethane	4.84	64	16000m	3.999	ppbv	
11) Vinyl bromide	5.32	106	39173m	3.982	ppbv	
12) Ethanol	4.96	45	15931	3.930	ppbv	99
13) Acrolein	5.41	56	15785m	3.543	ppbv	
14) Pentane	6.25	43	62202	4.136	ppbv	100
15) Trichlorofluoromethane	5.84	101	118785	4.064	ppbv	96
16) Acetone	5.57	58	15999	3.684	ppbv	100
17) 2-Propanol	5.78	45	73060	3.861	ppbv #	96
18) 1,1-Dichloroethene	6.63	96	37128	3.692	ppbv	97
19) trans-1,2-Dichloroethene	8.10	96	37324	3.822	ppbv #	71
20) Methylene chloride	6.80	84	35947	3.977	ppbv	96
21) t-Butyl alcohol (TBA)	6.57	59	65955	4.045	ppbv #	75
22) 3-Chloropropene	6.94	41	51518	4.099	ppbv	99
23) CFC-113	7.15	101	86782	4.092	ppbv	98
24) Carbon disulfide	7.28	76	131377	4.160	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	83436	3.975	ppbv	99
26) Vinyl acetate	8.54	43	98130	4.224	ppbv	100
27) 1,1-Dichloroethane	8.36	63	80066	3.919	ppbv	99
28) cis-1,2-Dichloroethene	9.64	96	39575	3.831	ppbv	98
29) Hexane	10.01	57	51441	4.069	ppbv	99
30) Chloroform	10.08	83	92826	3.992	ppbv	96
31) Ethyl acetate	9.92	43	95307	4.116	ppbv #	99
32) Tetrahydrofuran	10.74	42	42555	3.848	ppbv	100
33) 2-Butanone (MEK)	8.88	72	15844	4.188	ppbv #	86
34) 1,2-Dichloroethane (EDC)	11.34	62	62822	4.045	ppbv	100
35) 1,1,1-Trichloroethane	11.83	97	83493	4.085	ppbv	97
36) Carbon tetrachloride	12.86	117	87121	4.046	ppbv	98
37) Benzene	12.61	78	126249	3.997	ppbv	95
38) Cyclohexane	13.07	84	33443	4.002	ppbv	97
40) 1,2-Dichloropropane	13.80	63	59183	3.879	ppbv	99

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

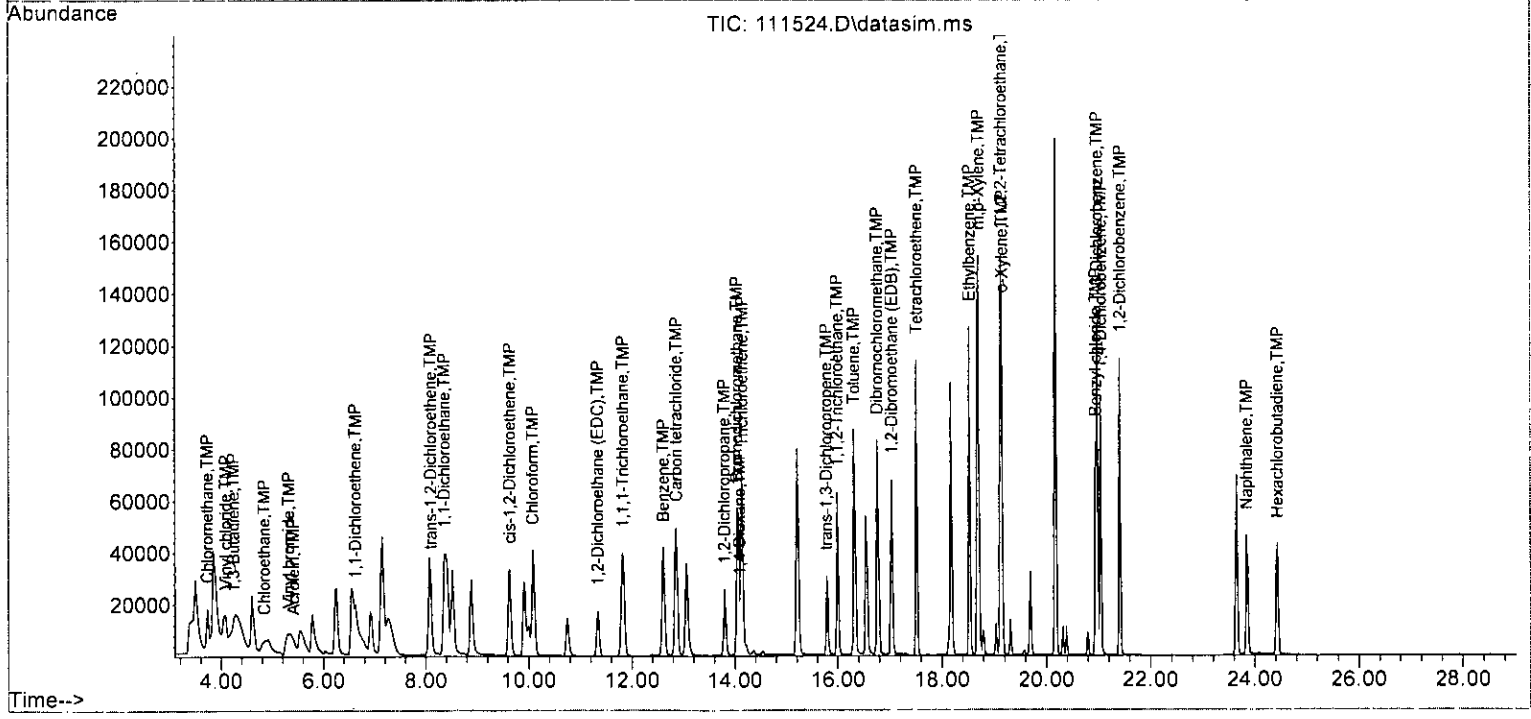
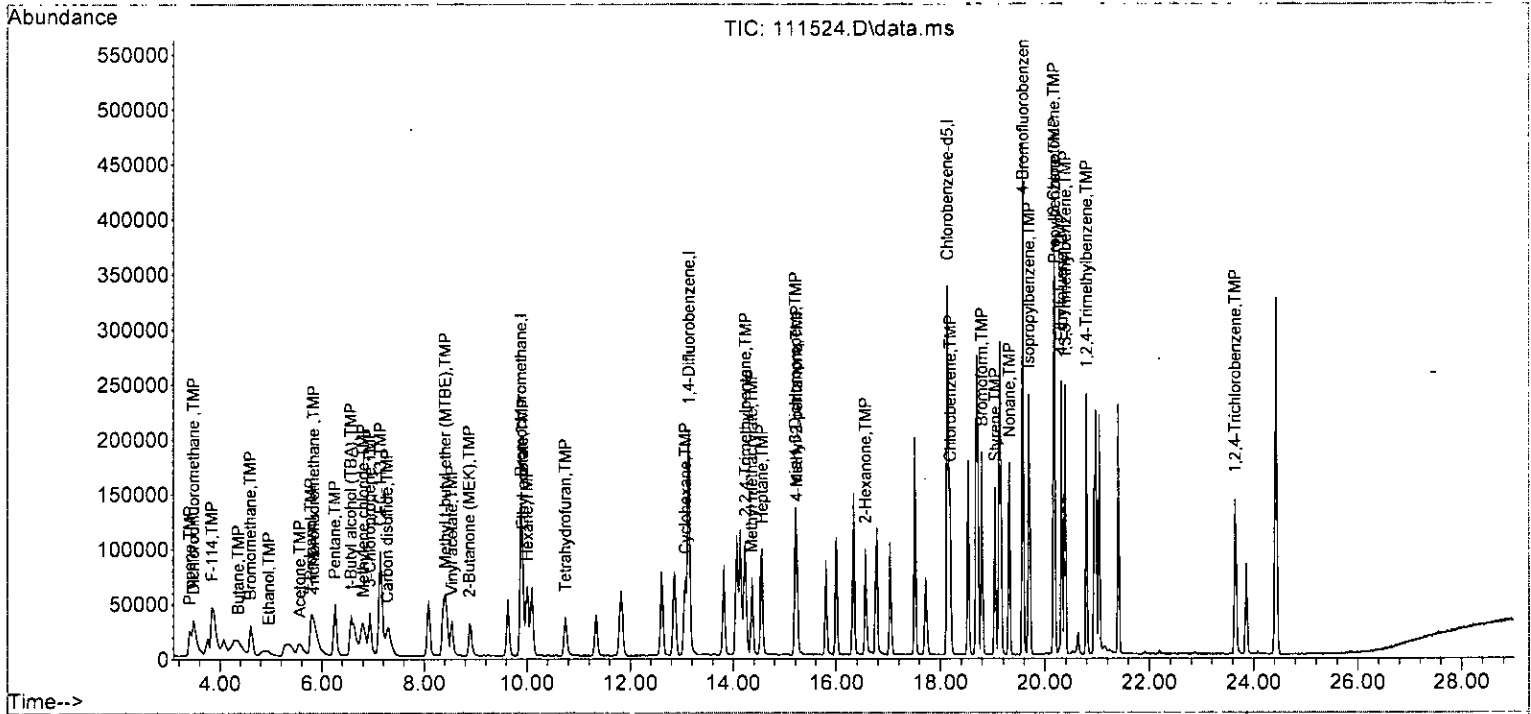
Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 5S method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	24576	3.788	ppbv	74
42] 2,2,4-Trimethylpentane	14.24	57	181987	4.041	ppbv	95
43] Methyl methacrylate	14.36	41	55200	4.037	ppbv	99
44] Heptane	14.56	43	74628	3.992	ppbv	97
45] Bromodichloromethane	14.04	83	97853	4.088	ppbv	100
46] Trichloroethene	14.14	95	61647	3.689	ppbv	93
47] cis-1,3-Dichloropropene	15.20	75	71047	4.212	ppbv	96
48] 4-Methyl-2-pentanone	15.23	100	5072	4.068	ppbv #	95
49] trans-1,3-Dichloropropene	15.78	75	66217	4.173	ppbv	82
50] Toluene	16.31	92	78968	3.964	ppbv	96
51] 1,1,2-Trichloroethane	16.00	83	58159	4.058	ppbv	92
52] 2-Hexanone	16.56	43	97830	4.103	ppbv	97
53] Tetrachloroethene	17.52	164	53751	3.895	ppbv	91
54] Dibromochloromethane	16.76	129	99446	4.100	ppbv	99
55] 1,2-Dibromoethane (EDB)	17.04	107	84835	4.008	ppbv	99
57] Chlorobenzene	18.19	112	107291	3.883	ppbv	98
58] Ethylbenzene	18.53	91	179483	4.024	ppbv	97
59] 1,1,2,2-Tetrachloroethane	19.13	83	133481	4.056	ppbv	93
60] Nonane	19.32	43	107897	4.383	ppbv	97
61] Isopropylbenzene	19.70	105	184276	4.097	ppbv	97
62] 2-Chlorotoluene	20.17	126	46312	4.118	ppbv	94
63] Propylbenzene	20.19	91	365253	4.420	ppbv	100
64] 4-Ethyltoluene	20.32	105	170650	4.219	ppbv	99
65] m,p-Xylene	18.70	106	130610	8.217	ppbv	96
66] o-Xylene	19.15	106	63741	4.130	ppbv	98
67] Styrene	19.05	104	88372	4.299	ppbv	97
68] Bromoform	18.80	173	105040	4.069	ppbv	100
70] Benzyl chloride	20.95	91	125613	4.233	ppbv	100
71] 1,3,5-Trimethylbenzene	20.39	105	160871	4.420	ppbv	100
72] 1,2,4-Trimethylbenzene	20.80	105	139629	4.021	ppbv	97
73] 1,3-Dichlorobenzene	20.98	146	109547	4.313	ppbv	99
74] 1,4-Dichlorobenzene	21.05	146	101668	4.278	ppbv	98
75] 1,2-Dichlorobenzene	21.41	146	108878	4.235	ppbv	93
76] 1,2,4-Trichlorobenzene	23.64	180	69458	4.076	ppbv	98
77] Naphthalene	23.84	128	99098	4.075	ppbv	98
78] Hexachlorobutadiene	24.44	225	105314	4.016	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	4.000	4.126	-3.2	100	0.00
3 TMP Dichlorodifluoromethane	4.000	4.011	-0.3	100	0.00
4 TMP Chloromethane	4.000	3.839	4.0	100	0.00
5 TMP F-114	4.000	3.971	0.7	105	-0.04
6 TMP Vinyl chloride	4.000	3.765	5.9	100	0.00
7 TMP 1,3-Butadiene	4.000	3.728	6.8	100	-0.04
8 TMP Butane	4.000	3.979	0.5	101	0.04
9 TMP Bromomethane	4.000	3.664	8.4	100	0.00
10 TMP Chloroethane	4.000	3.999	0.0	101	0.00
11 TMP Vinyl bromide	4.000	3.982	0.4	101	0.00
12 TMP Ethanol	4.000	3.930	1.7	100	0.00
13 TMP Acrolein	4.000	3.543	11.4	100	0.00
14 TMP Pentane	4.000	4.136	-3.4	100	0.00
15 TMP Trichlorofluoromethane	4.000	4.064	-1.6	100	0.00
16 TMP Acetone	4.000	3.684	7.9	100	0.00
17 TMP 2-Propanol	4.000	3.861	3.5	98	0.00
18 TMP 1,1-Dichloroethene	4.000	3.692	7.7	100	0.00
19 TMP trans-1,2-Dichloroethene	4.000	3.822	4.4	100	0.00
20 TMP Methylene chloride	4.000	3.977	0.6	100	0.00
21 TMP t-Butyl alcohol (TBA)	4.000	4.045	-1.1	100	0.00
22 TMP 3-Chloropropene	4.000	4.099	-2.5	100	0.00
23 TMP CFC-113	4.000	4.092	-2.3	100	0.00
24 TMP Carbon disulfide	4.000	4.160	-4.0	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	4.000	3.975	0.6	100	-0.03
26 TMP Vinyl acetate	4.000	4.224	-5.6	100	0.00
27 TMP 1,1-Dichloroethane	4.000	3.919	2.0	100	0.00
28 TMP cis-1,2-Dichloroethene	4.000	3.831	4.2	100	0.00
29 TMP Hexane	4.000	4.069	-1.7	100	0.00
30 TMP Chloroform	4.000	3.992	0.2	100	-0.02
31 TMP Ethyl acetate	4.000	4.116	-2.9	100	0.00
32 TMP Tetrahydrofuran	4.000	3.848	3.8	100	-0.01
33 TMP 2-Butanone (MEK)	4.000	4.188	-4.7	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	4.000	4.045	-1.1	100	0.00
35 TMP 1,1,1-Trichloroethane	4.000	4.085	-2.1	100	0.00
36 TMP Carbon tetrachloride	4.000	4.046	-1.2	100	0.00
37 TMP Benzene	4.000	3.997	0.1	100	0.00
38 TMP Cyclohexane	4.000	4.002	-0.0	100	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	4.000	3.879	3.0	100	0.00
41 TMP 1,4-Dioxane	4.000	3.788	5.3	100	0.00
42 TMP 2,2,4-Trimethylpentane	4.000	4.041	-1.0	100	0.00
43 TMP Methyl methacrylate	4.000	4.037	-0.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	4.000	3.992	0.2	100	0.00
45 TMP Bromodichloromethane	4.000	4.088	-2.2	100	0.00
46 TMP Trichloroethene	4.000	3.689	7.8	100	0.00
47 TMP cis-1,3-Dichloropropene	4.000	4.212	-5.3	100	0.00
48 TMP 4-Methyl-2-pentanone	4.000	4.068	-1.7	100	0.00
49 TMP trans-1,3-Dichloropropene	4.000	4.173	-4.3	100	0.00
50 TMP Toluene	4.000	3.964	0.9	100	0.00
51 TMP 1,1,2-Trichloroethane	4.000	4.058	-1.4	100	0.00
52 TMP 2-Hexanone	4.000	4.103	-2.6	100	0.00
53 TMP Tetrachloroethene	4.000	3.895	2.6	100	0.00
54 TMP Dibromochloromethane	4.000	4.100	-2.5	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	4.000	4.008	-0.2	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	4.000	3.883	2.9	100	0.00
58 TMP Ethylbenzene	4.000	4.024	-0.6	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	4.000	4.056	-1.4	100	0.00
60 TMP Nonane	4.000	4.383	-9.6	100	0.02
61 TMP Isopropylbenzene	4.000	4.097	-2.4	100	0.00
62 TMP 2-Chlorotoluene	4.000	4.118	-3.0	100	0.00
63 TMP Propylbenzene	4.000	4.420	-10.5	100	0.00
64 TMP 4-Ethyltoluene	4.000	4.219	-5.5	100	0.00
65 TMP m,p-Xylene	8.000	8.217	-2.7	100	0.00
66 TMP o-Xylene	4.000	4.130	-3.2	100	0.00
67 TMP Styrene	4.000	4.299	-7.5	100	0.00
68 TMP Bromoform	4.000	4.069	-1.7	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.561	-5.6	100	0.00
70 TMP Benzyl chloride	4.000	4.233	-5.8	101	0.00
71 TMP 1,3,5-Trimethylbenzene	4.000	4.420	-10.5	100	0.00
72 TMP 1,2,4-Trimethylbenzene	4.000	4.021	-0.5	100	0.00
73 TMP 1,3-Dichlorobenzene	4.000	4.313	-7.8	100	0.00
74 TMP 1,4-Dichlorobenzene	4.000	4.278	-6.9	100	0.00
75 TMP 1,2-Dichlorobenzene	4.000	4.235	-5.9	100	0.00
76 TMP 1,2,4-Trichlorobenzene	4.000	4.076	-1.9	100	0.00
77 TMP Naphthalene	4.000	4.075	-1.9	100	0.00
78 TMP Hexachlorobutadiene	4.000	4.016	-0.4	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.357	12.8	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.134	-0.3	100	0.00
4 TMP Chloromethane	1.882	1.807	4.0	100	0.00
5 TMP F-114	4.217	4.186	0.7	105	-0.04
6 TMP Vinyl chloride	1.851	1.742	5.9	100	0.00
7 TMP 1,3-Butadiene	1.216	1.133	6.8	100	-0.04
8 TMP Butane	2.183	2.171	0.5	101	0.04
9 TMP Bromomethane	1.847	1.692	8.4	100	0.00
10 TMP Chloroethane	0.655	0.654	0.2	101	0.00
11 TMP Vinyl bromide	1.609	1.602	0.4	101	0.00
12 TMP Ethanol	0.663	0.652	1.7	100	0.00
13 TMP Acrolein	0.729	0.646	11.4	100	0.00
14 TMP Pentane	2.461	2.544	-3.4	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.858	-1.6	100	0.00
16 TMP Acetone	0.710	0.654	7.9	100	0.00
17 TMP 2-Propanol	3.096	2.988	3.5	98	0.00
18 TMP 1,1-Dichloroethene	1.645	1.519	7.7	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.527	4.4	100	0.00
20 TMP Methylene chloride	1.479	1.470	0.6	100	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.698	-1.1	100	0.00
22 TMP 3-Chloropropene	2.056	2.107	-2.5	100	0.00
23 TMP CFC-113	3.469	3.549	-2.3	100	0.00
24 TMP Carbon disulfide	5.167	5.373	-4.0	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.413	0.6	100	-0.03
26 TMP Vinyl acetate	3.801	4.014	-5.6	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.275	2.0	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.619	4.2	100	0.00
29 TMP Hexane	2.068	2.104	-1.7	100	0.00
30 TMP Chloroform	4.060	3.797	6.5	100	-0.02
31 TMP Ethyl acetate	3.789	3.898	-2.9	100	0.00
32 TMP Tetrahydrofuran	1.809	1.741	3.8	100	-0.01
33 TMP 2-Butanone (MEK)	0.619	0.648	-4.7	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.569	4.4	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.415	-2.2	100	0.00
36 TMP Carbon tetrachloride	3.523	3.563	-1.1	100	0.00
37 TMP Benzene	5.688	5.164	9.2	100	0.00
38 TMP Cyclohexane	1.367	1.368	-0.1	100	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.525	3.0	100	0.00
41 TMP 1,4-Dioxane	0.230	0.218	5.2	100	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.615	-1.1	100	0.00
43 TMP Methyl methacrylate	0.485	0.490	-1.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111524.D  
 Acq On : 16 Nov 2022 9:00 am  
 Operator : bat  
 Sample : 4.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 24 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:57:26 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.662	0.2	100	0.00
45 TMP Bromodichloromethane	0.850	0.868	-2.1	100	0.00
46 TMP Trichloroethene	0.593	0.547	7.8	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.630	-5.2	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.045	-2.3	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.588	-4.4	100	0.00
50 TMP Toluene	0.707	0.701	0.8	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.516	6.2	100	0.00
52 TMP 2-Hexanone	0.846	0.868	-2.6	100	0.00
53 TMP Tetrachloroethene	0.490	0.477	2.7	100	0.00
54 TMP Dibromochloromethane	0.861	0.882	-2.4	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.753	8.6	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.069	2.9	100	0.00
58 TMP Ethylbenzene	1.968	1.788	9.1	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.329	4.7	100	0.00
60 TMP Nonane	0.981	1.075	-9.6	100	0.02
61 TMP Isopropylbenzene	1.792	1.835	-2.4	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.461	-2.9	100	0.00
63 TMP Propylbenzene	3.292	3.638	-10.5	100	0.00
64 TMP 4-Ethyltoluene	1.611	1.700	-5.5	100	0.00
65 TMP m,p-Xylene	0.633	0.650	-2.7	100	0.00
66 TMP o-Xylene	0.615	0.635	-3.3	100	0.00
67 TMP Styrene	0.819	0.880	-7.4	100	0.00
68 TMP Bromoform	1.028	1.046	-1.8	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.732	-5.6	100	0.00
70 TMP Benzyl chloride	0.987	1.251	-26.7	101	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.602	-10.5	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.391	-11.5	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.091	-7.8	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.013	-7.0	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.084	-5.9	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.692	-10.5	100	0.00
77 TMP Naphthalene	1.132	0.987	12.8	100	0.00
78 TMP Hexachlorobutadiene	1.045	1.049	-0.4	100	0.00

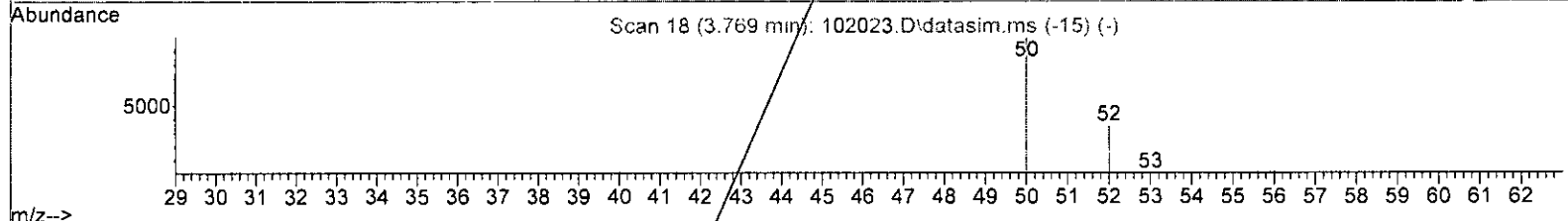
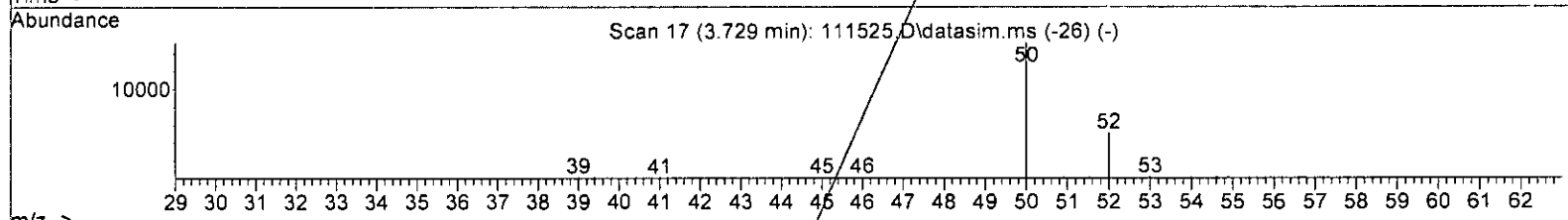
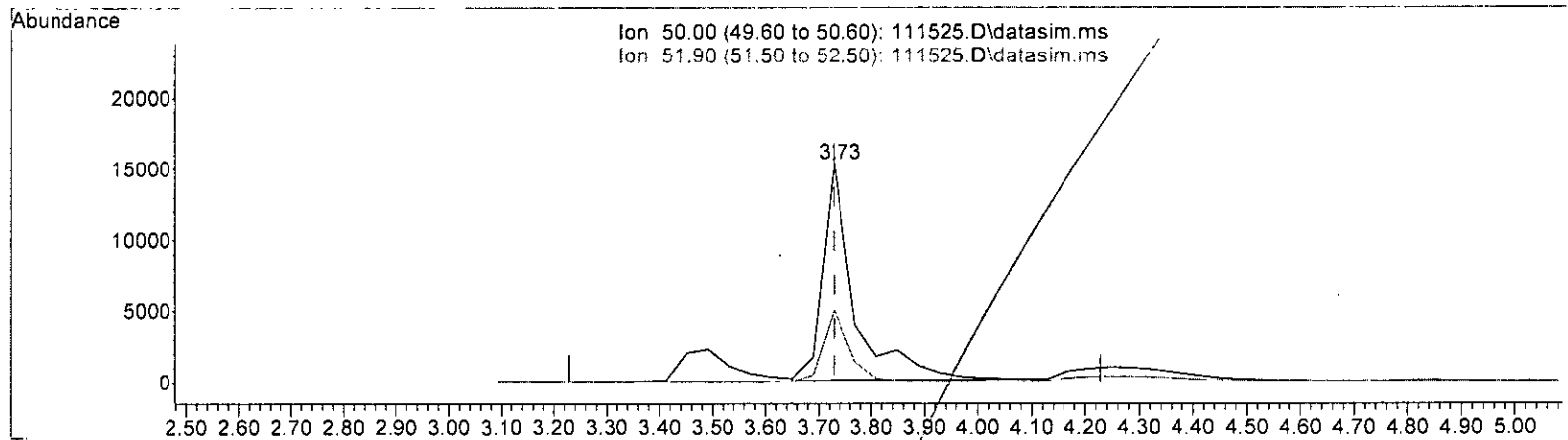
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111525.D\data.ms

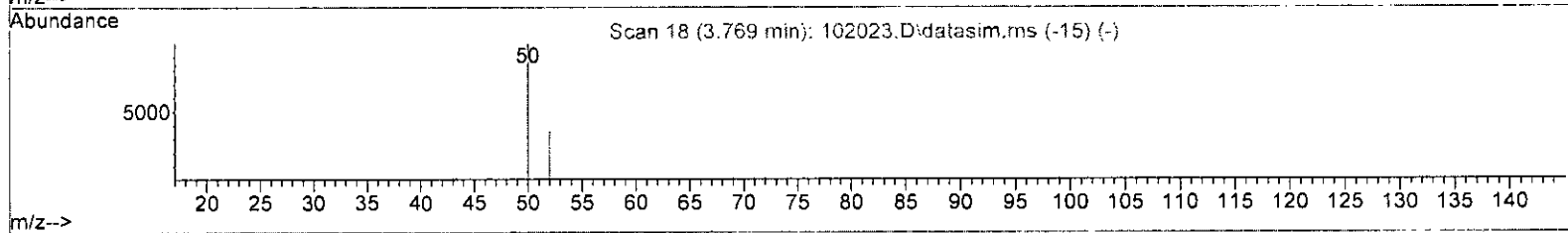
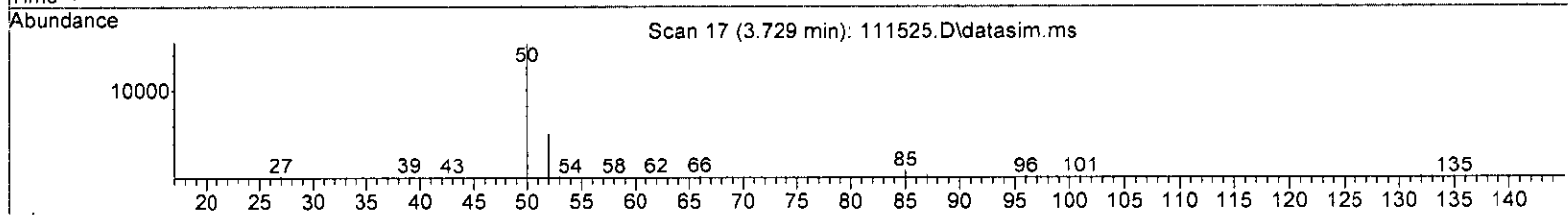
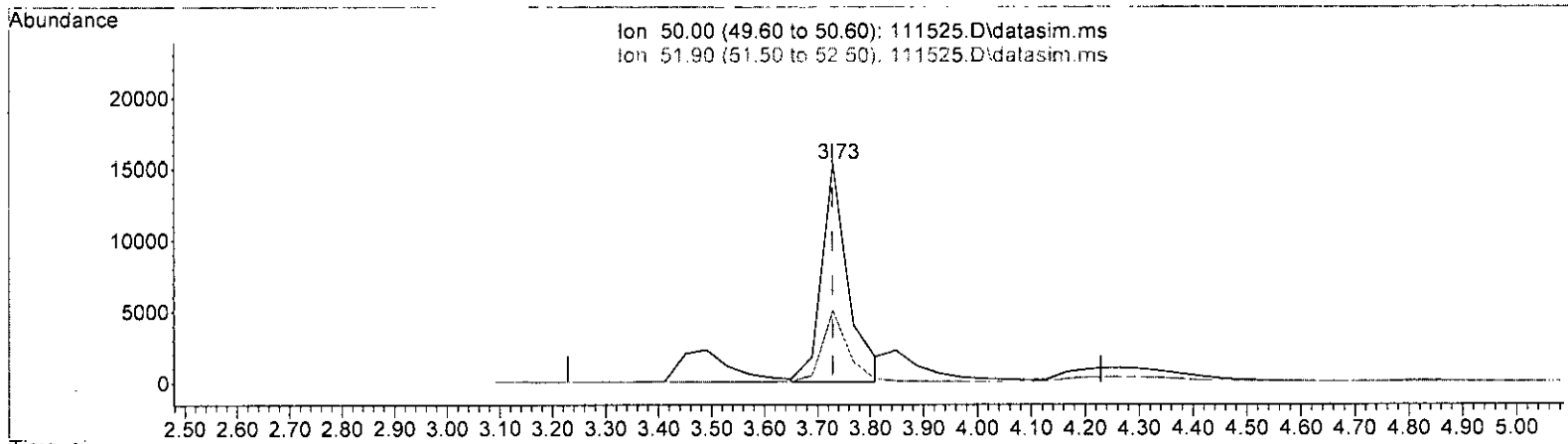
(4) Chloromethane (TMP)			
3.729min (+ 0.000)	5.489	ppbv	
response	63014		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	32.89	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111525.D\data.ms

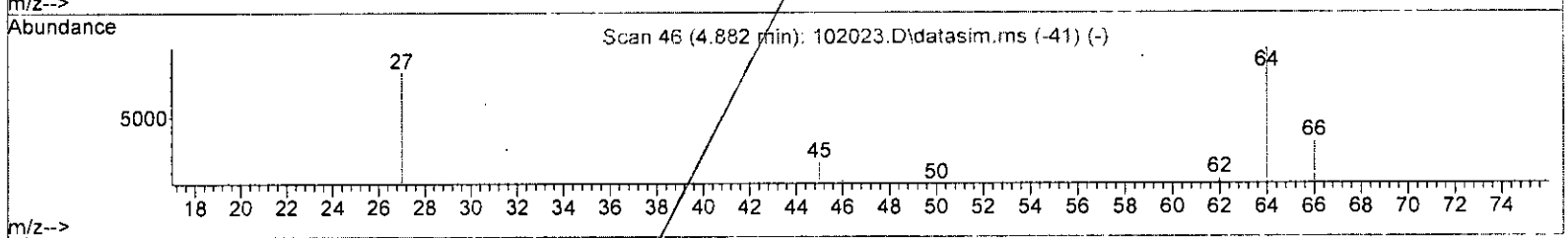
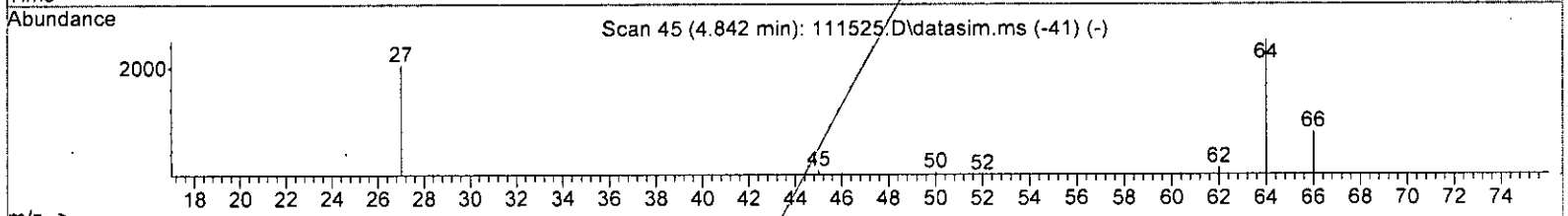
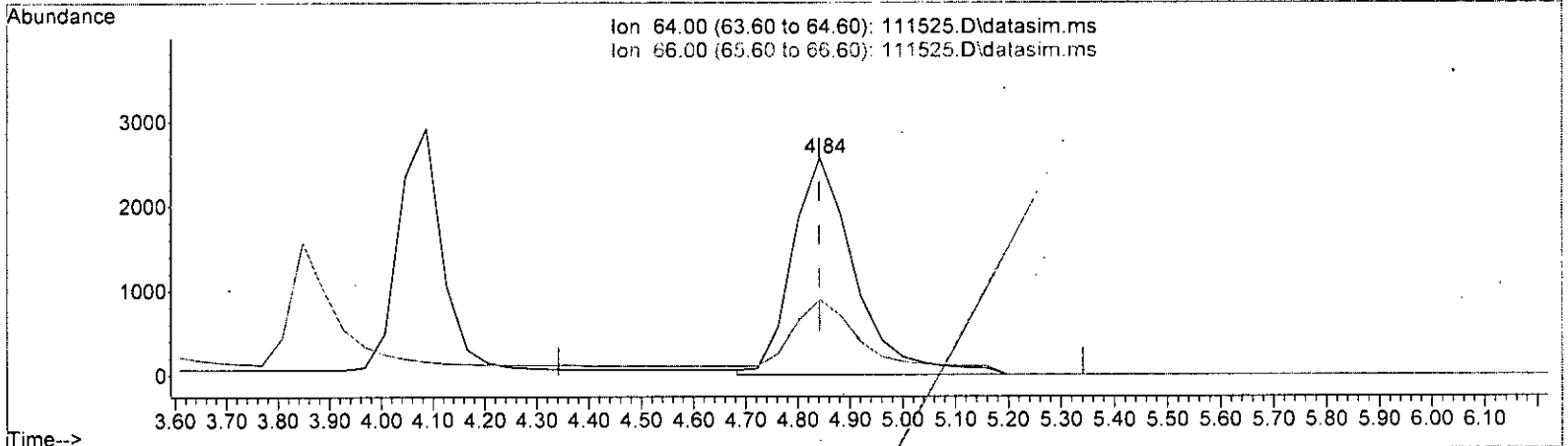
(4) Chloromethane (TMP)			
3.729min (+ 0.000)		4.721 ppbv m	
response	54199		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	32.92	
0.00	0.00	0.00	
0.00	0.00	0.00	

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111525.D\data.ms

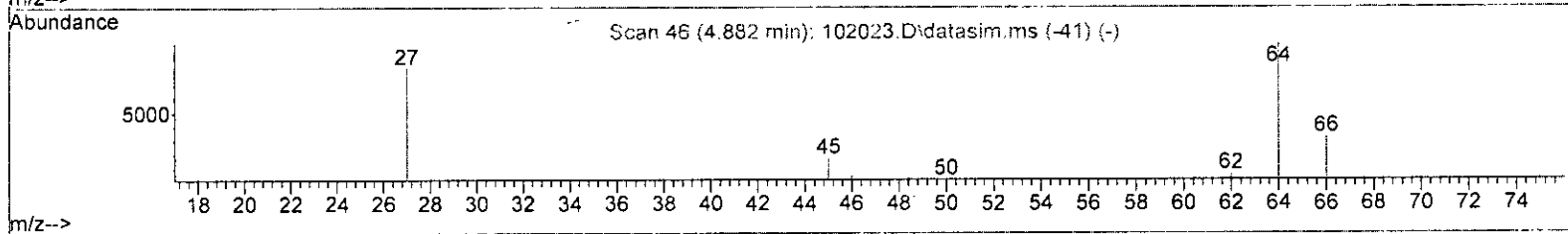
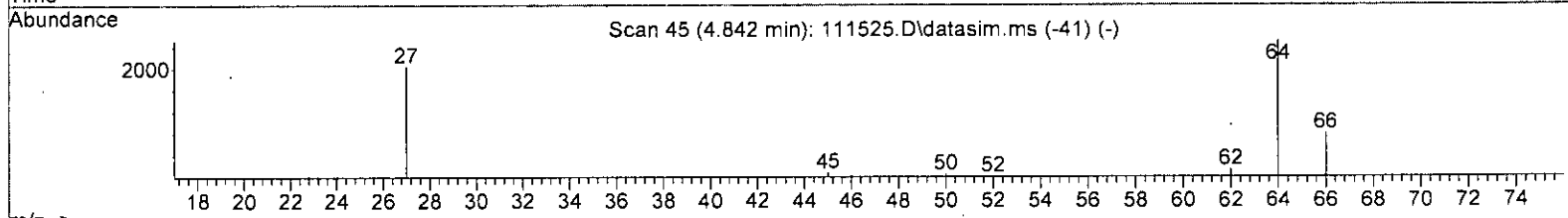
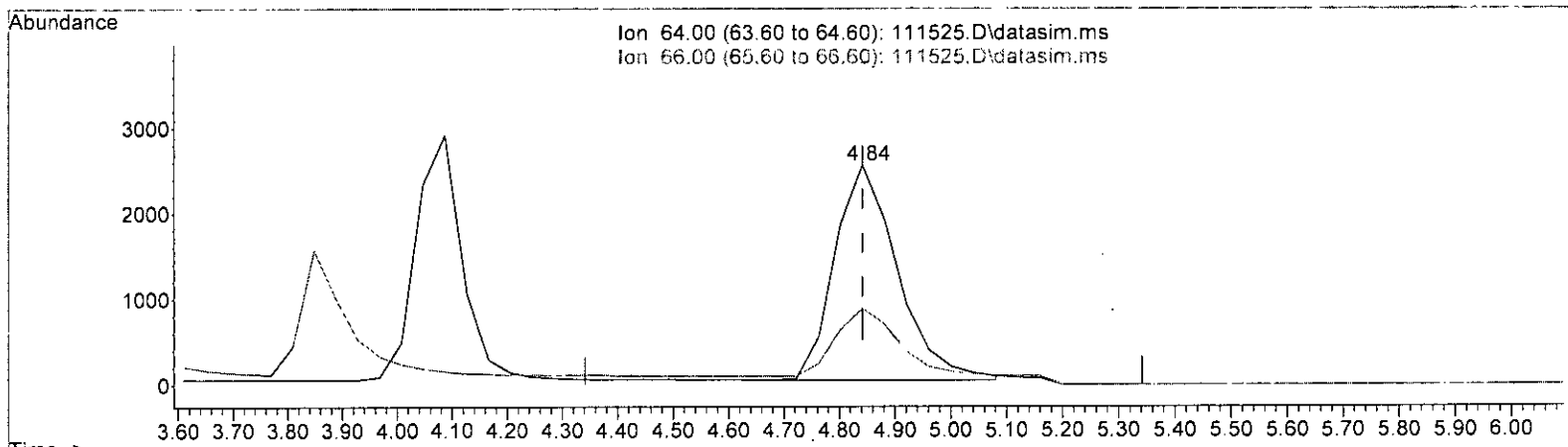
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	5.142 ppbv	
response	20522	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	34.67
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111525.D\data.ms

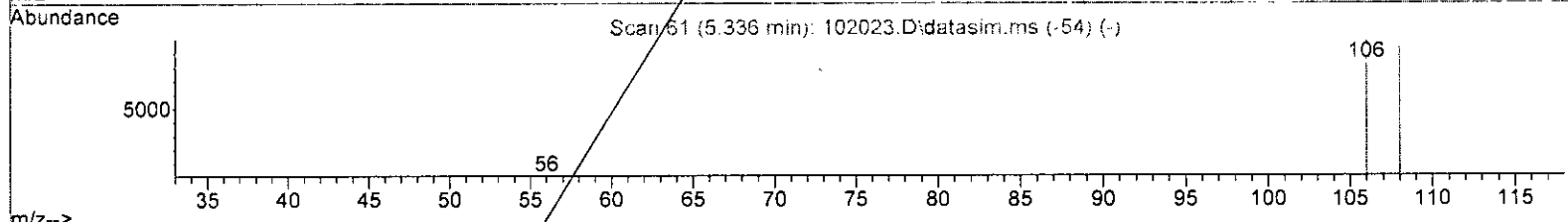
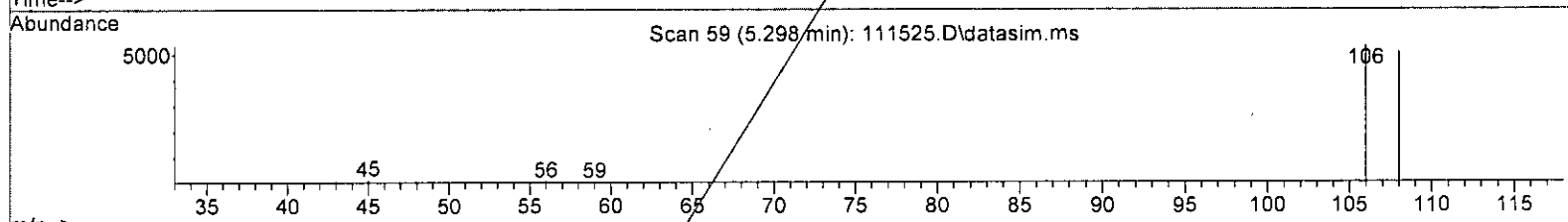
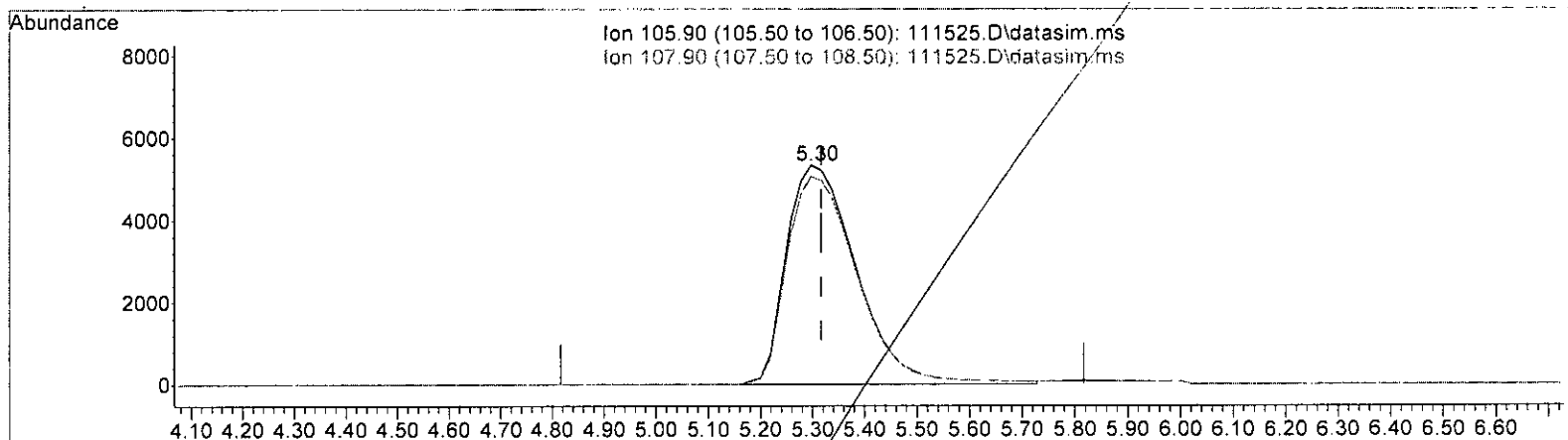
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	4.928 ppbv m	
response	19668	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	34.67
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111525.D\data.ms

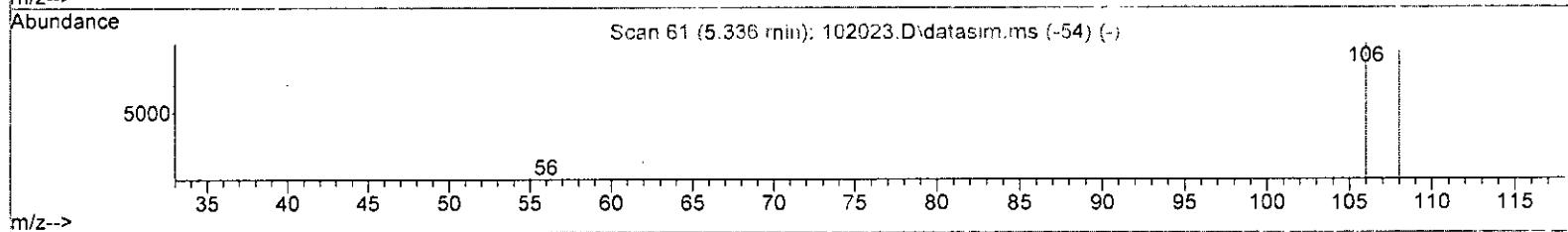
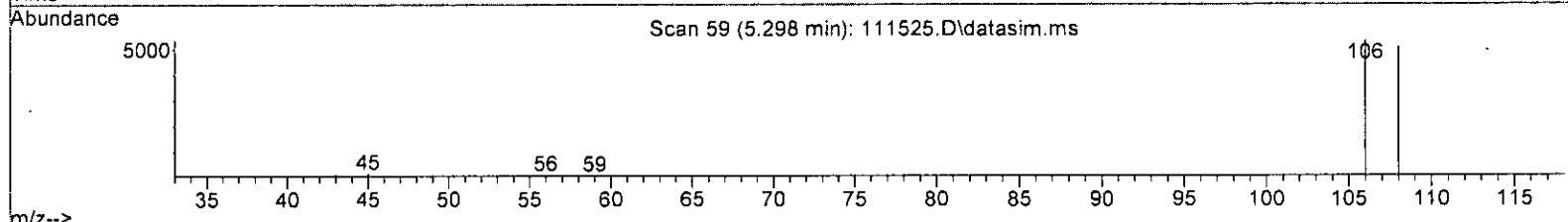
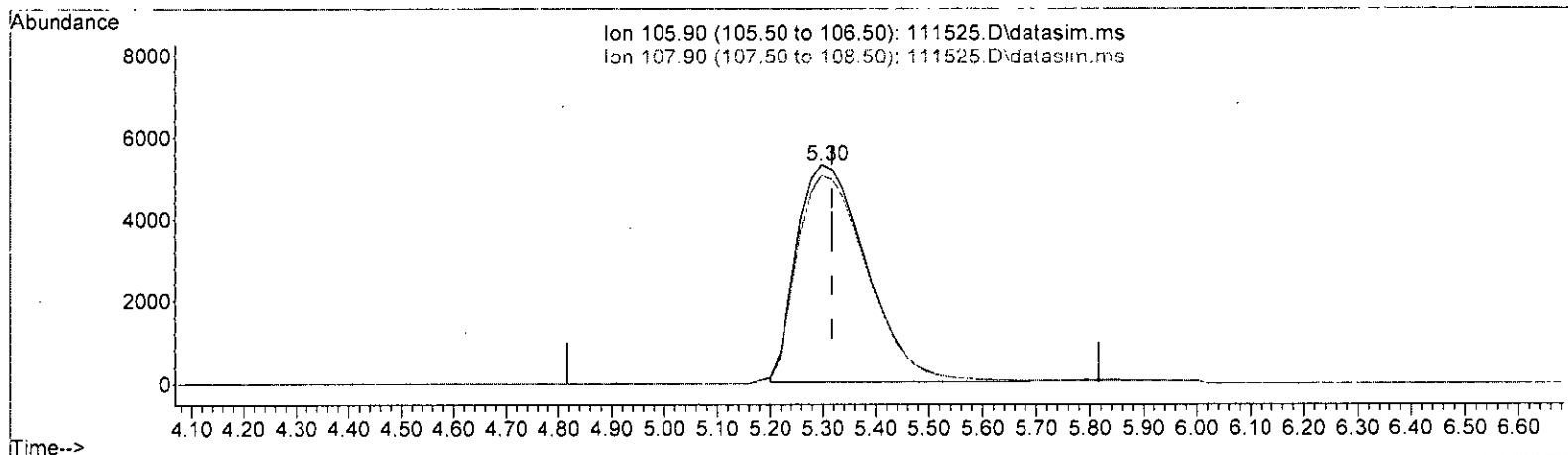
(11) Vinyl bromide (TMP)		
5.298min (-0.019)	5.443 ppbv	
response	53420	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	94.86
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111525.D\data.ms

(11) Vinyl bromide (TMP)

Time (min)	Response	Concentration (ppbv)
5.298min (-0.019)	48337	4.925 ppbv m

Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	104.84
0.00	0.00	0.00
0.00	0.00	0.00

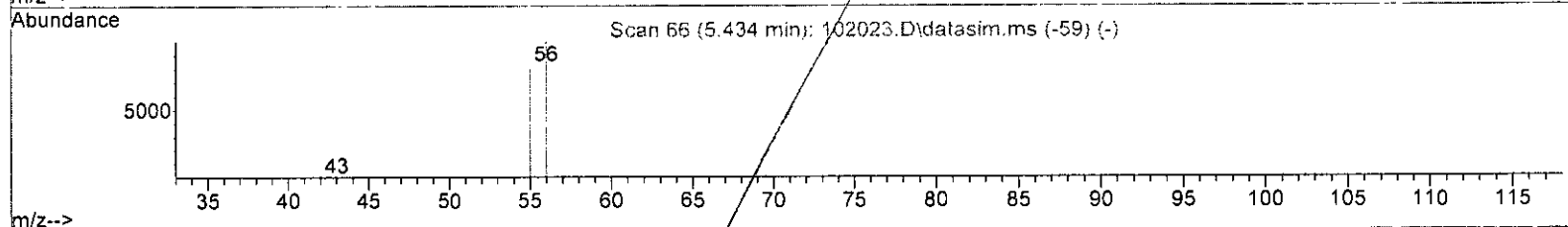
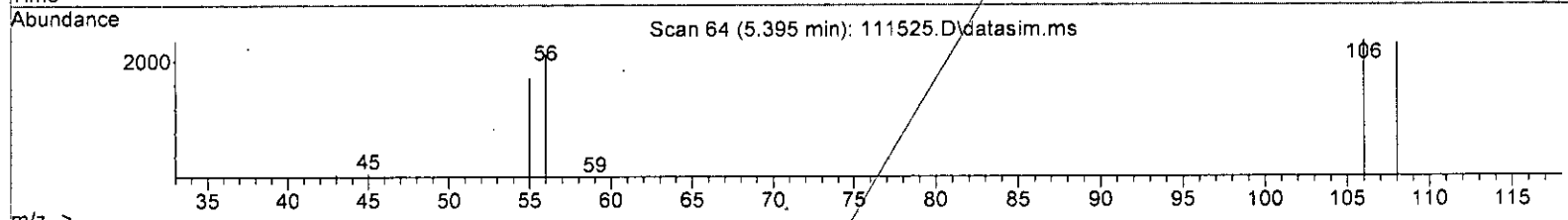
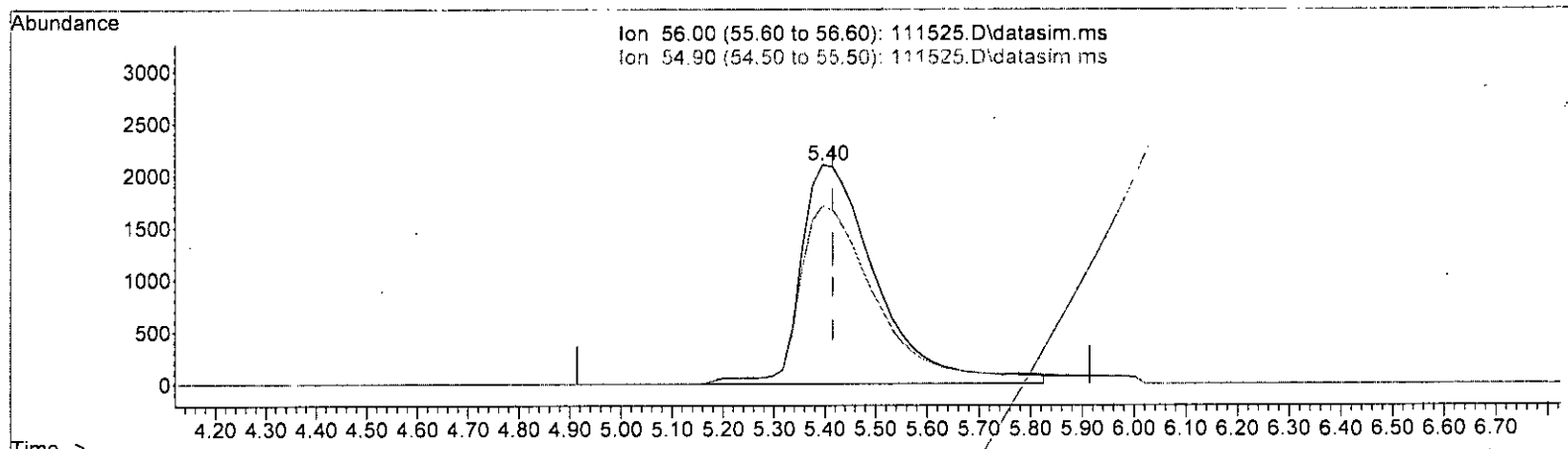
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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111525.D\data.ms

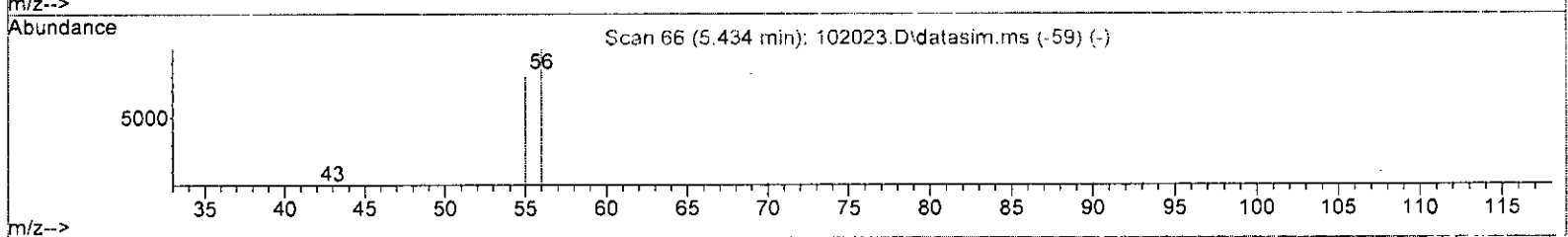
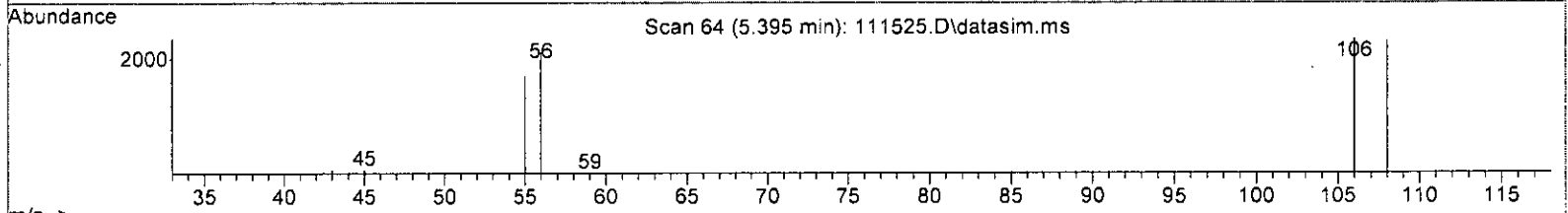
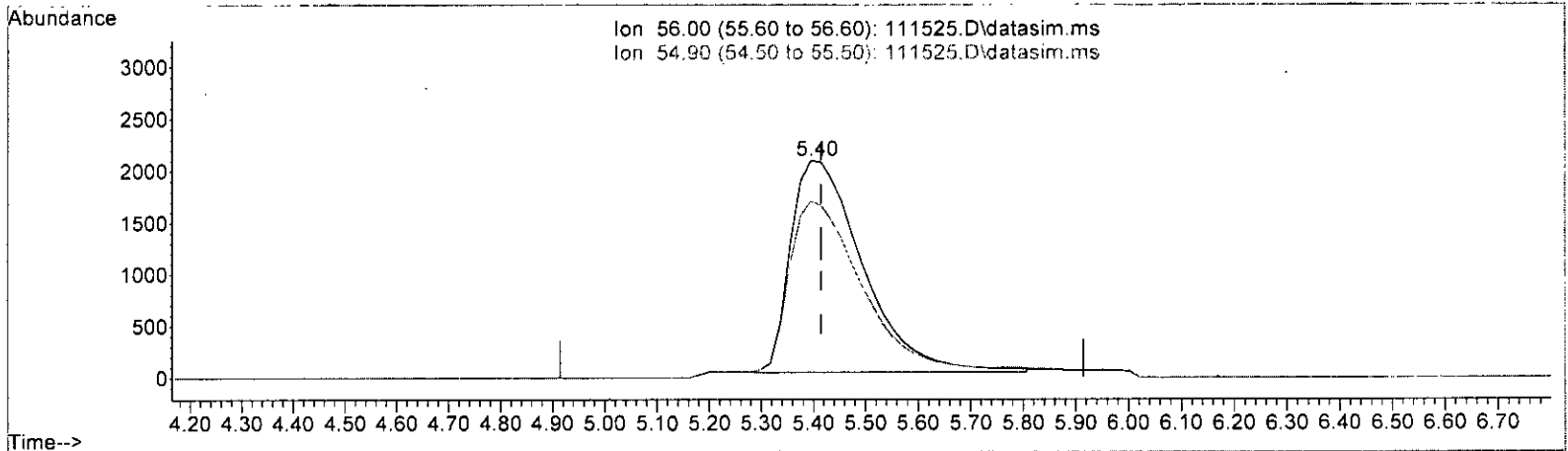
(13) Acrolein (TMP)		
5.395min (-0.020)	5.182 ppbv	
response	23034	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	70.72
0.00	0.00	0.00
0.00	0.00	0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111525.D\data.ms

(13) Acrolein (TMP)			
5.395min (-0.020) 4.427 ppbv m			
response	19678		
Ion	Exp%	Act%	
56.00	100.00	100.00	
54.90	81.00	82.78	
0.00	0.00	0.00	
0.00	0.00	0.00	

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Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	60983	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	276283	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	244337	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	182039	10.751	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	107.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	41138	5.122	ppbv	91
3) Dichlorodifluoromethane	3.49	85	123681	4.920	ppbv	99
4] Chloromethane	3.73	50	54199m	4.721	ppbv	
5) F-114	3.84	85	123062	4.785	ppbv	98
6] Vinyl chloride	4.09	62	52067	4.614	ppbv	98
7] 1,3-Butadiene	4.25	54	34424	4.642	ppbv #	93
8) Butane	4.32	43	67886	5.100	ppbv	99
9) Bromomethane	4.60	94	50664	4.498	ppbv	99
10] Chloroethane	4.84	64	19668m	4.928	ppbv	
11] Vinyl bromide	5.30	106	48337m	4.925	ppbv	
12) Ethanol	4.96	45	17741	4.387	ppbv	96
13] Acrolein	5.40	56	19678m	4.427	ppbv	
14) Pentane	6.25	43	73820	4.919	ppbv	98
15) Trichlorofluoromethane	5.84	101	143109	4.908	ppbv	97
16) Acetone	5.57	58	19212	4.434	ppbv #	80
17) 2-Propanol	5.78	45	91063	4.823	ppbv	98
18] 1,1-Dichloroethene	6.63	96	45669	4.552	ppbv	98
19] trans-1,2-Dichloroethene	8.10	96	45685	4.688	ppbv #	69
20) Methylene chloride	6.80	84	45366	5.030	ppbv	95
21) t-Butyl alcohol (T8A)	6.57	59	83643	5.141	ppbv #	78
22) 3-Chloropropene	6.94	41	66905	5.336	ppbv	99
23) CFC-113	7.15	101	102655	4.852	ppbv	97
24) Carbon disulfide	7.28	76	162349	5.153	ppbv	96
25) Methyl t-butyl ether (...)	8.41	73	102603	4.900	ppbv	96
26) Vinyl acetate	8.54	43	121623	5.247	ppbv	97
27] 1,1-Dichloroethane	8.36	63	98087	4.812	ppbv	99
28] cis-1,2-Dichloroethene	9.64	96	48427	4.699	ppbv	97
29) Hexane	10.01	57	62850	4.983	ppbv	92
30] Chloroform	10.08	83	113492	4.923	ppbv	96
31) Ethyl acetate	9.92	43	117638	5.092	ppbv	99
32) Tetrahydrofuran	10.74	42	53194	4.821	ppbv	100
33) 2-Butanone (MEK)	8.88	72	19398	5.140	ppbv #	93
34] 1,2-Dichloroethane (EDC)	11.34	62	76451	4.958	ppbv	100
35] 1,1,1-Trichloroethane	11.81	97	102962	5.050	ppbv	98
36] Carbon tetrachloride	12.86	117	106309	4.949	ppbv	97
37] Benzene	12.61	78	153957	4.914	ppbv	95
38) Cyclohexane	13.07	84	40106	4.811	ppbv	97
40] 1,2-Dichloropropane	13.80	63	72152	4.823	ppbv	99

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

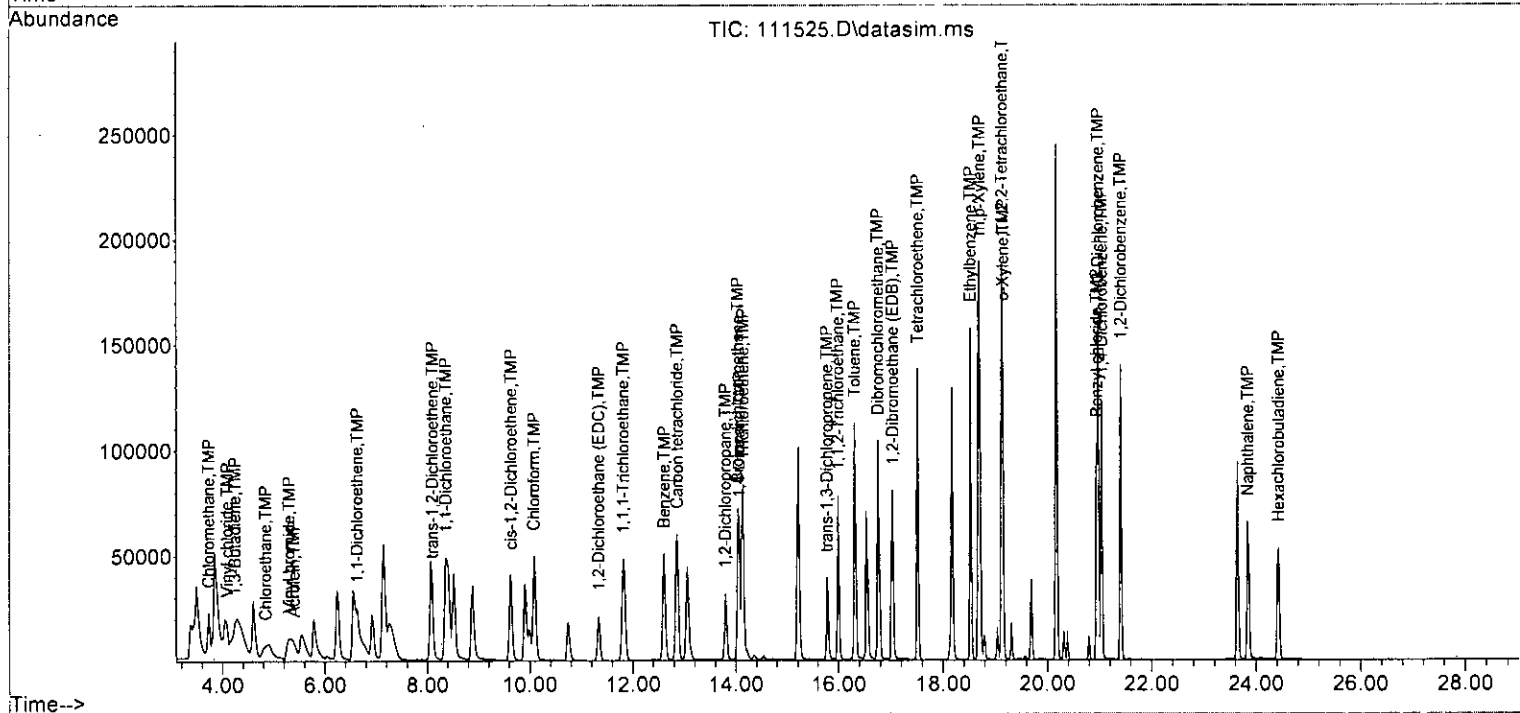
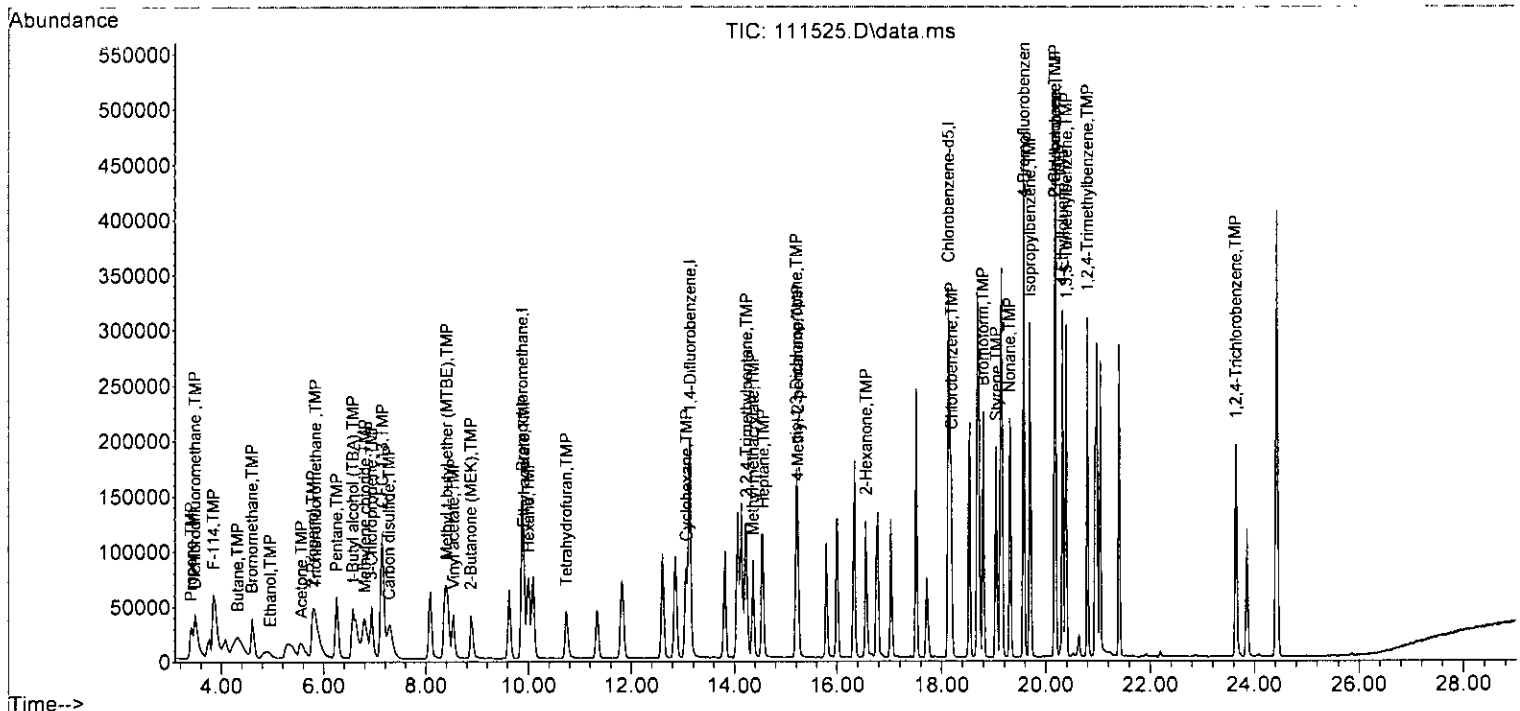
Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 55 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	30557	4.803	ppbv	88
42) 2,2,4-Trimethylpentane	14.24	57	224195	5.077	ppbv	96
43) Methyl methacrylate	14.36	41	66849	4.986	ppbv	97
44) Heptane	14.56	43	95586	5.215	ppbv	99
45] Bromodichloromethane	14.04	83	119739	5.101	ppbv	99
46] Trichloroethene	14.14	95	75582	4.612	ppbv	91
47) cis-1,3-Dichloropropene	15.20	75	89766	5.427	ppbv	97
48) 4-Methyl-2-pentanone	15.23	100	6253	5.114	ppbv #	96
49] trans-1,3-Dichloropropene	15.78	75	81515	5.239	ppbv	84
50] Toluene	16.31	92	96765	4.954	ppbv	95
51] 1,1,2-Trichloroethane	16.00	83	70313	5.048	ppbv	91
52) 2-Hexanone	16.56	43	122607	5.244	ppbv	95
53] Tetrachloroethene	17.52	164	71945	5.316	ppbv	92
54] Dibromochloromethane	16.76	129	121070	5.091	ppbv	100
55] 1,2-Dibromoethane (EDB)	17.04	107	104659	5.086	ppbv	100
57) Chlorobenzene	18.19	112	133240	4.954	ppbv	97
58] Ethylbenzene	18.53	91	222923	5.156	ppbv	96
59] 1,1,2,2-Tetrachloroethane	19.13	83	161620	5.092	ppbv	92
60) Nonane	19.30	43	132738	5.540	ppbv	100
61) Isopropylbenzene	19.70	105	232200	5.303	ppbv	100
62) 2-Chlorotoluene	20.17	126	58276	5.324	ppbv	89
63) Propylbenzene	20.17	91	449296	5.586	ppbv	98
64) 4-Ethyltoluene	20.32	105	214541	5.449	ppbv	100
65] m,p-Xylene	18.70	106	162637	10.511	ppbv	95
66] o-Xylene	19.15	106	78349	5.216	ppbv	98
67) Styrene	19.05	104	107940	5.394	ppbv	98
68) Bromoform	18.80	173	127834	5.087	ppbv	100
70] Benzyl chloride	20.95	91	157683	5.383	ppbv	100
71) 1,3,5-Trimethylbenzene	20.39	105	199336	5.626	ppbv	99
72) 1,2,4-Trimethylbenzene	20.80	105	178302	5.189	ppbv	100
73] 1,3-Dichlorobenzene	20.98	146	135650	5.486	ppbv	98
74] 1,4-Dichlorobenzene	21.05	146	126517	5.469	ppbv	98
75] 1,2-Dichlorobenzene	21.41	146	135159	5.401	ppbv	93
76) 1,2,4-Trichlorobenzene	23.64	180	94340	5.395	ppbv	99
77] Naphthalene	23.84	128	141473	5.351	ppbv	99
78] Hexachlorobutadiene	24.44	225	129729	5.083	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 AL5 Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 5S method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP	Propene	5.000	5.122	-2.4	100	0.00
3 TMP	Dichlorodifluoromethane	5.000	4.920	1.6	100	0.00
4 TMP	Chloromethane	5.000	4.721	5.6	100	0.00
5 TMP	F-114	5.000	4.785	4.3	100	-0.04
6 TMP	Vinyl chloride	5.000	4.614	7.7	100	0.00
7 TMP	1,3-Butadiene	5.000	4.642	7.2	100	-0.04
8 TMP	Butane	5.000	5.100	-2.0	101	0.00
9 TMP	Bromomethane	5.000	4.498	10.0	100	0.00
10 TMP	Chloroethane	5.000	4.928	1.4	101	0.00
11 TMP	Vinyl bromide	5.000	4.925	1.5	102	-0.02
12 TMP	Ethanol	5.000	4.387	12.3	100	0.00
13 TMP	Acrolein	5.000	4.427	11.5	101	-0.02
14 TMP	Pentane	5.000	4.919	1.6	100	0.00
15 TMP	Trichlorofluoromethane	5.000	4.908	1.8	99	0.00
16 TMP	Acetone	5.000	4.434	11.3	100	0.00
17 TMP	2-Propanol	5.000	4.823	3.5	99	0.00
18 TMP	1,1-Dichloroethene	5.000	4.552	9.0	100	0.00
19 TMP	trans-1,2-Dichloroethene	5.000	4.688	6.2	100	0.00
20 TMP	Methylene chloride	5.000	5.030	-0.6	100	0.00
21 TMP	t-Butyl alcohol (TBA)	5.000	5.141	-2.8	100	0.00
22 TMP	3-Chloropropene	5.000	5.336	-6.7	100	0.00
23 TMP	CFC-113	5.000	4.852	3.0	100	0.00
24 TMP	Carbon disulfide	5.000	5.153	-3.1	100	0.00
25 TMP	Methyl t-butyl ether (MTBE)	5.000	4.900	2.0	100	-0.03
26 TMP	Vinyl acetate	5.000	5.247	-4.9	100	0.00
27 TMP	1,1-Dichloroethane	5.000	4.812	3.8	100	0.00
28 TMP	cis-1,2-Dichloroethene	5.000	4.699	6.0	100	0.00
29 TMP	Hexane	5.000	4.983	0.3	100	0.00
30 TMP	Chloroform	5.000	4.923	1.5	100	-0.02
31 TMP	Ethyl acetate	5.000	5.092	-1.8	100	0.00
32 TMP	Tetrahydrofuran	5.000	4.821	3.6	100	0.00
33 TMP	2-Butanone (MEK)	5.000	5.140	-2.8	100	-0.03
34 TMP	1,2-Dichloroethane (EDC)	5.000	4.958	0.8	100	0.00
35 TMP	1,1,1-Trichloroethane	5.000	5.050	-1.0	100	-0.01
36 TMP	Carbon tetrachloride	5.000	4.949	1.0	100	0.00
37 TMP	Benzene	5.000	4.914	1.7	100	0.00
38 TMP	Cyclohexane	5.000	4.811	3.8	100	0.00
39 I	1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP	1,2-Dichloropropane	5.000	4.823	3.5	100	0.00
41 TMP	1,4-Dioxane	5.000	4.803	3.9	100	-0.02
42 TMP	2,2,4-Trimethylpentane	5.000	5.077	-1.5	100	0.00
43 TMP	Methyl methacrylate	5.000	4.986	0.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCM57 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	5.000	5.215	-4.3	100	0.00
45 TMP Bromodichloromethane	5.000	5.101	-2.0	100	0.00
46 TMP Trichloroethene	5.000	4.612	7.8	100	0.00
47 TMP cis-1,3-Dichloropropene	5.000	5.427	-8.5	100	0.00
48 TMP 4-Methyl-2-pentanone	5.000	5.114	-2.3	100	0.00
49 TMP trans-1,3-Dichloropropene	5.000	5.239	-4.8	100	0.00
50 TMP Toluene	5.000	4.954	0.9	100	0.00
51 TMP 1,1,2-Trichloroethane	5.000	5.048	-1.0	100	0.00
52 TMP 2-Hexanone	5.000	5.244	-4.9	100	0.00
53 TMP Tetrachloroethene	5.000	5.316	-6.3	100	0.00
54 TMP Dibromochloromethane	5.000	5.091	-1.8	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	5.000	5.086	-1.7	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	5.000	4.954	0.9	100	0.00
58 TMP Ethylbenzene	5.000	5.156	-3.1	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	5.000	5.092	-1.8	100	0.00
60 TMP Nonane	5.000	5.540	-10.8	100	0.00
61 TMP Isopropylbenzene	5.000	5.303	-6.1	100	0.00
62 TMP 2-Chlorotoluene	5.000	5.324	-6.5	100	0.00
63 TMP Propylbenzene	5.000	5.586	-11.7	100	-0.01
64 TMP 4-Ethyltoluene	5.000	5.449	-9.0	100	0.00
65 TMP m,p-Xylene	10.000	10.511	-5.1	100	0.00
66 TMP o-Xylene	5.000	5.216	-4.3	100	0.00
67 TMP Styrene	5.000	5.394	-7.9	100	0.00
68 TMP Bromoform	5.000	5.087	-1.7	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.751	-7.5	100	0.00
70 TMP Benzyl chloride	5.000	5.383	-7.7	101	0.00
71 TMP 1,3,5-Trimethylbenzene	5.000	5.626	-12.5	100	0.00
72 TMP 1,2,4-Trimethylbenzene	5.000	5.189	-3.8	100	0.00
73 TMP 1,3-Dichlorobenzene	5.000	5.486	-9.7	100	0.00
74 TMP 1,4-Dichlorobenzene	5.000	5.469	-9.4	100	0.00
75 TMP 1,2-Dichlorobenzene	5.000	5.401	-8.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	5.000	5.395	-7.9	100	0.00
77 TMP Naphthalene	5.000	5.351	-7.0	100	0.00
78 TMP Hexachlorobutadiene	5.000	5.083	-1.7	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : S.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.349	13.3	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.056	1.6	100	0.00
4 TMP Chloromethane	1.882	1.778	5.5	100	0.00
5 TMP F-114	4.217	4.036	4.3	100	-0.04
6 TMP Vinyl chloride	1.851	1.708	7.7	100	0.00
7 TMP 1,3-Butadiene	1.216	1.129	7.2	100	-0.04
8 TMP Butane	2.183	2.226	-2.0	101	0.00
9 TMP Bromomethane	1.847	1.662	10.0	100	0.00
10 TMP Chloroethane	0.655	0.645	1.5	101	0.00
11 TMP Vinyl bromide	1.609	1.585	1.5	102	-0.02
12 TMP Ethanol	0.663	0.582	12.2	100	0.00
13 TMP Acrolein	0.729	0.645	11.5	101	-0.02
14 TMP Pentane	2.461	2.421	1.6	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.693	1.8	99	0.00
16 TMP Acetone	0.710	0.630	11.3	100	0.00
17 TMP 2-Propanol	3.096	2.987	3.5	99	0.00
18 TMP 1,1-Dichloroethene	1.645	1.498	8.9	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.498	6.3	100	0.00
20 TMP Methylene chloride	1.479	1.488	-0.6	100	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.743	-2.8	100	0.00
22 TMP 3-Chloropropene	2.056	2.194	-6.7	100	0.00
23 TMP CFC-113	3.469	3.367	2.9	100	0.00
24 TMP Carbon disulfide	5.167	5.324	-3.0	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.365	2.0	100	-0.03
26 TMP Vinyl acetate	3.801	3.989	-4.9	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.217	3.7	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.588	6.0	100	0.00
29 TMP Hexane	2.068	2.061	0.3	100	0.00
30 TMP Chloroform	4.060	3.722	8.3	100	-0.02
31 TMP Ethyl acetate	3.789	3.858	-1.8	100	0.00
32 TMP Tetrahydrofuran	1.809	1.745	3.5	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.636	-2.7	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.507	6.7	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.377	-1.0	100	-0.01
36 TMP Carbon tetrachloride	3.523	3.487	1.0	100	0.00
37 TMP Benzene	5.688	5.049	11.2	100	0.00
38 TMP Cyclohexane	1.367	1.315	3.8	100	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.522	3.5	100	0.00
41 TMP 1,4-Dioxane	0.230	0.221	3.9	100	-0.02
42 TMP 2,2,4-Trimethylpentane	1.598	1.623	-1.6	100	0.00
43 TMP Methyl methacrylate	0.485	0.484	0.2	100	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : S.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.692	-4.4	100	0.00
45 TMP Bromodichloromethane	0.850	0.867	-2.0	100	0.00
46 TMP Trichloroethene	0.593	0.547	7.8	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.650	-8.5	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.045	-2.3	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.590	-4.8	100	0.00
50 TMP Toluene	0.707	0.700	1.0	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.509	7.5	100	0.00
52 TMP 2-Hexanone	0.846	0.888	-5.0	100	0.00
53 TMP Tetrachloroethene	0.490	0.521	-6.3	100	0.00
54 TMP Dibromochloromethane	0.861	0.876	-1.7	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.758	8.0	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.091	0.9	100	0.00
58 TMP Ethylbenzene	1.968	1.825	7.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.323	5.1	100	0.00
60 TMP Nonane	0.981	1.087	-10.8	100	0.00
61 TMP Isopropylbenzene	1.792	1.901	-6.1	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.477	-6.5	100	0.00
63 TMP Propylbenzene	3.292	3.678	-11.7	100	-0.01
64 TMP 4-Ethyltoluene	1.611	1.756	-9.0	100	0.00
65 TMP m,p-Xylene	0.633	0.666	-5.2	100	0.00
66 TMP o-Xylene	0.615	0.641	-4.2	100	0.00
67 TMP Styrene	0.819	0.884	-7.9	100	0.00
68 TMP Bromoform	1.028	1.046	-1.8	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.745	-7.5	100	0.00
70 TMP Benzyl chloride	0.987	1.291	-30.8#	101	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.632	-12.6	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.459	-17.0	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.110	-9.7	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.036	-9.4	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.106	-8.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.772	-23.3	100	0.00
77 TMP Naphthalene	1.132	1.158	-2.3	100	0.00
78 TMP Hexachlorobutadiene	1.045	1.062	-1.6	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.349	13.3	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.056	1.6	100	0.00
4 TMP Chloromethane	1.882	1.778	5.5	100	0.00
5 TMP F-114	4.217	4.036	4.3	100	-0.04
6 TMP Vinyl chloride	1.851	1.708	7.7	100	0.00
7 TMP 1,3-Butadiene	1.216	1.129	7.2	100	-0.04
8 TMP Butane	2.183	2.226	-2.0	101	0.00
9 TMP Bromomethane	1.847	1.662	10.0	100	0.00
10 TMP Chloroethane	0.655	0.645	1.5	101	0.00
11 TMP Vinyl bromide	1.609	1.585	1.5	102	-0.02
12 TMP Ethanol	0.663	0.582	12.2	100	0.00
13 TMP Acrolein	0.729	0.645	11.5	101	-0.02
14 TMP Pentane	2.461	2.421	1.6	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.693	1.8	99	0.00
16 TMP Acetone	0.710	0.630	11.3	100	0.00
17 TMP 2-Propanol	3.096	2.987	3.5	99	0.00
18 TMP 1,1-Dichloroethene	1.645	1.498	8.9	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.498	6.3	100	0.00
20 TMP Methylene chloride	1.479	1.488	-0.6	100	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.743	-2.8	100	0.00
22 TMP 3-Chloropropene	2.056	2.194	-6.7	100	0.00
23 TMP CFC-113	3.469	3.367	2.9	100	0.00
24 TMP Carbon disulfide	5.167	5.324	-3.0	100	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.365	2.0	100	-0.03
26 TMP Vinyl acetate	3.801	3.989	-4.9	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.217	3.7	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.588	6.0	100	0.00
29 TMP Hexane	2.068	2.061	0.3	100	0.00
30 TMP Chloroform	4.060	3.722	8.3	100	-0.02
31 TMP Ethyl acetate	3.789	3.858	-1.8	100	0.00
32 TMP Tetrahydrofuran	1.809	1.745	3.5	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.636	-2.7	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.507	6.7	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.377	-1.0	100	-0.01
36 TMP Carbon tetrachloride	3.523	3.487	1.0	100	0.00
37 TMP Benzene	5.688	5.049	11.2	100	0.00
38 TMP Cyclohexane	1.367	1.315	3.8	100	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.522	3.5	100	0.00
41 TMP 1,4-Dioxane	0.230	0.221	3.9	100	-0.02
42 TMP 2,2,4-Trimethylpentane	1.598	1.623	-1.6	100	0.00
43 TMP Methyl methacrylate	0.485	0.484	0.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111525.D  
 Acq On : 16 Nov 2022 9:34 am  
 Operator : bat  
 Sample : 5.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 25 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 14:59:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.692	-4.4	100	0.00
45 TMP Bromodichloromethane	0.850	0.867	-2.0	100	0.00
46 TMP Trichloroethene	0.593	0.547	7.8	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.650	-8.5	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.045	-2.3	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.590	-4.8	100	0.00
50 TMP Toluene	0.707	0.700	1.0	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.509	7.5	100	0.00
52 TMP 2-Hexanone	0.846	0.888	-5.0	100	0.00
53 TMP Tetrachloroethene	0.490	0.521	-6.3	100	0.00
54 TMP Dibromochloromethane	0.861	0.876	-1.7	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.758	8.0	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.091	0.9	100	0.00
58 TMP Ethylbenzene	1.968	1.825	7.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.323	5.1	100	0.00
60 TMP Nonane	0.981	1.087	-10.8	100	0.00
61 TMP Isopropylbenzene	1.792	1.901	-6.1	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.477	-6.5	100	0.00
63 TMP Propylbenzene	3.292	3.678	-11.7	100	-0.01
64 TMP 4-Ethyltoluene	1.611	1.756	-9.0	100	0.00
65 TMP m,p-Xylene	0.633	0.666	-5.2	100	0.00
66 TMP o-Xylene	0.615	0.641	-4.2	100	0.00
67 TMP Styrene	0.819	0.884	-7.9	100	0.00
68 TMP Bromoform	1.028	1.046	-1.8	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.745	-7.5	100	0.00
70 TMP Benzyl chloride	0.987	1.291	-30.8#	101	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.632	-12.6	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.459	-17.0	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.110	-9.7	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.036	-9.4	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.106	-8.0	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.772	-23.3	100	0.00
77 TMP Naphthalene	1.132	1.158	-2.3	100	0.00
78 TMP Hexachlorobutadiene	1.045	1.062	-1.6	100	0.00

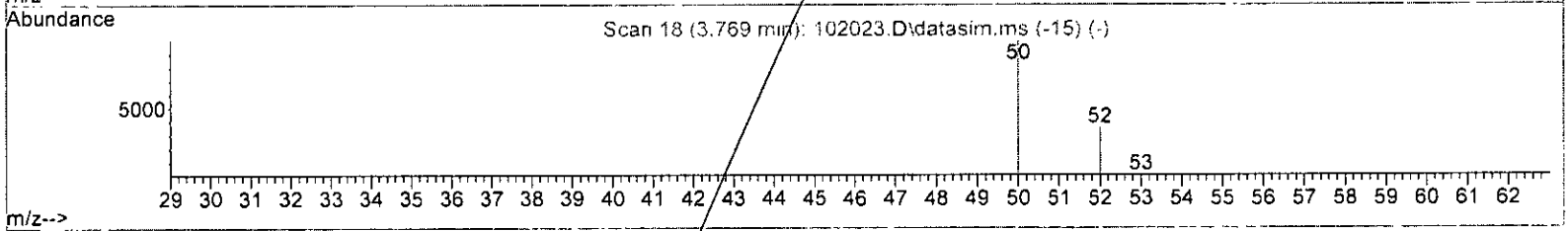
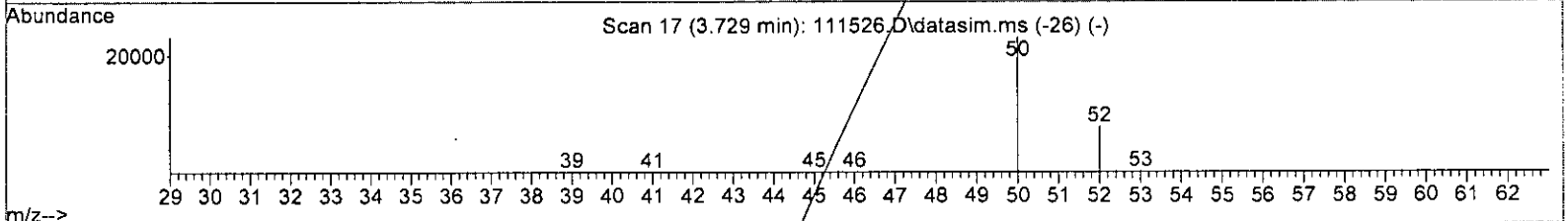
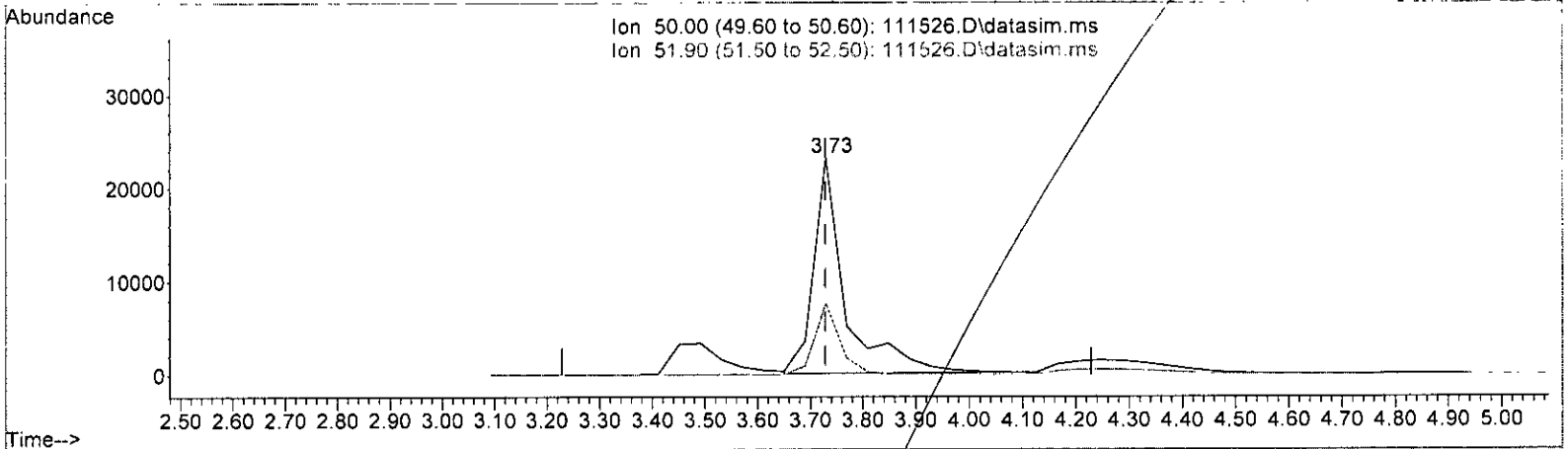
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111526.D\data.ms

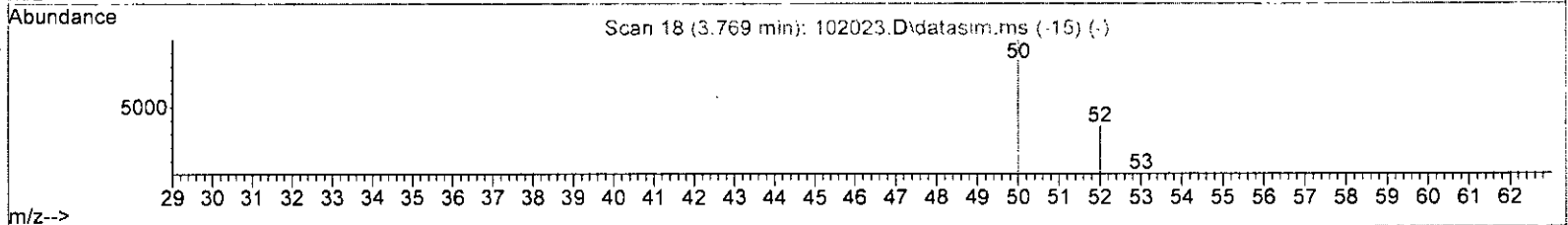
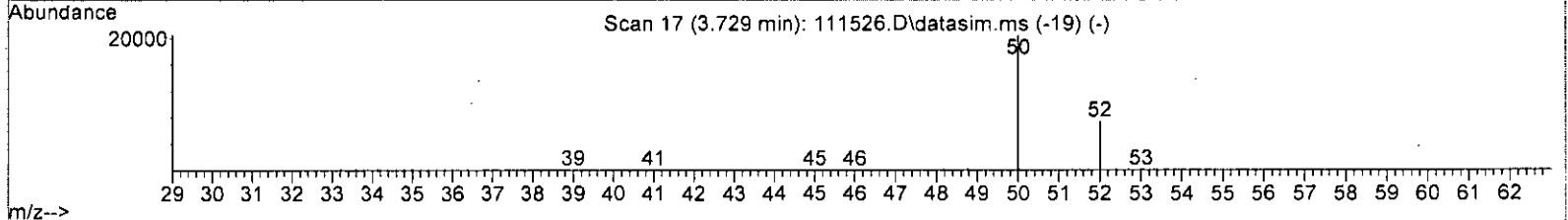
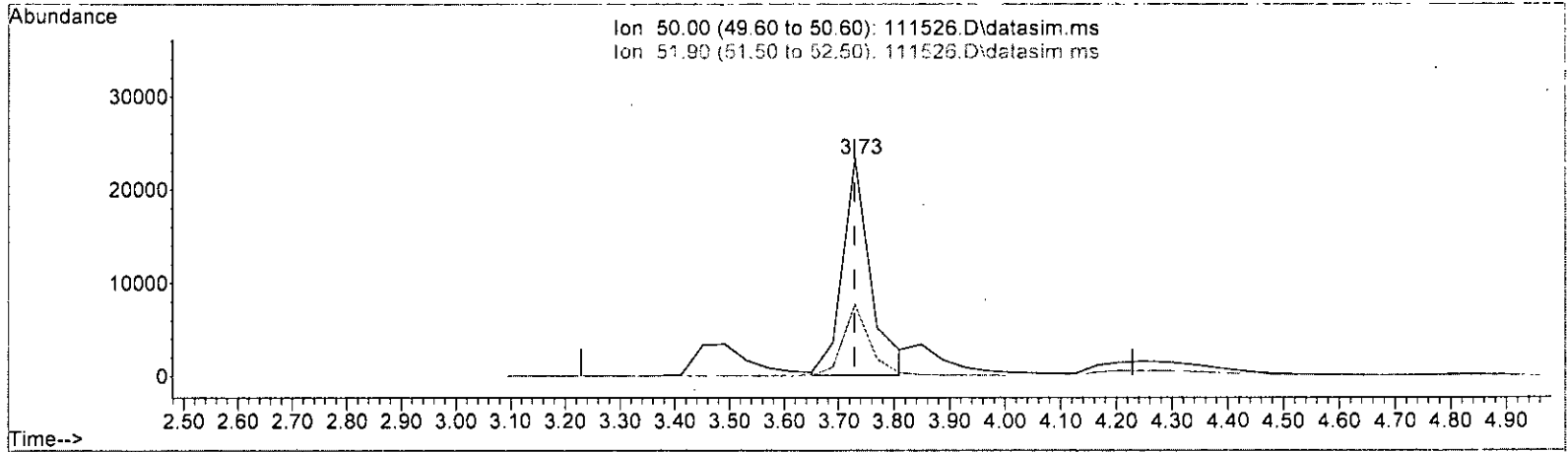
(4) Chloromethane (TMP)			
	3.729min (+ 0.000)	8.804 ppbv	
response	95954		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	33.24	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111526.D\data.ms

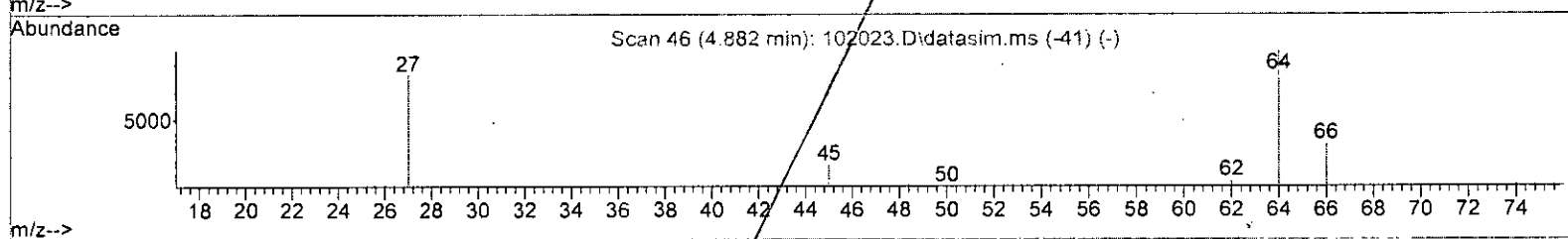
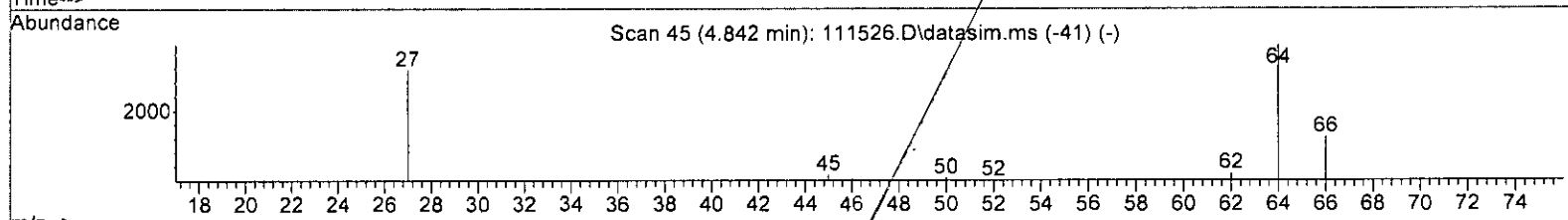
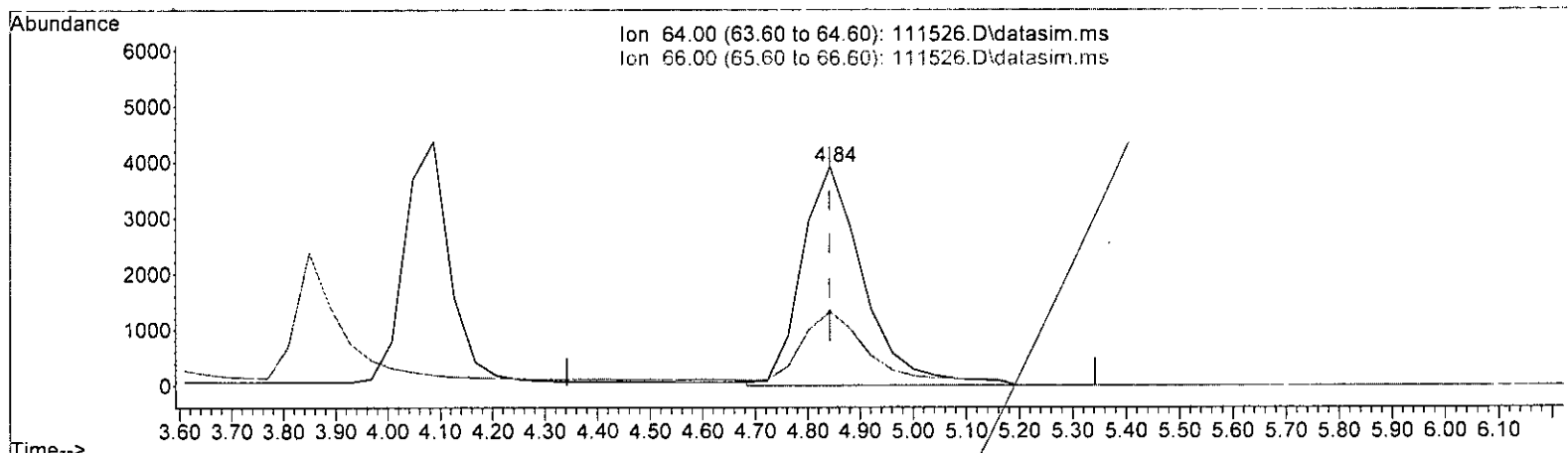
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	7.590 ppbv m	
response	82724	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	33.16
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111526.D\data.ms

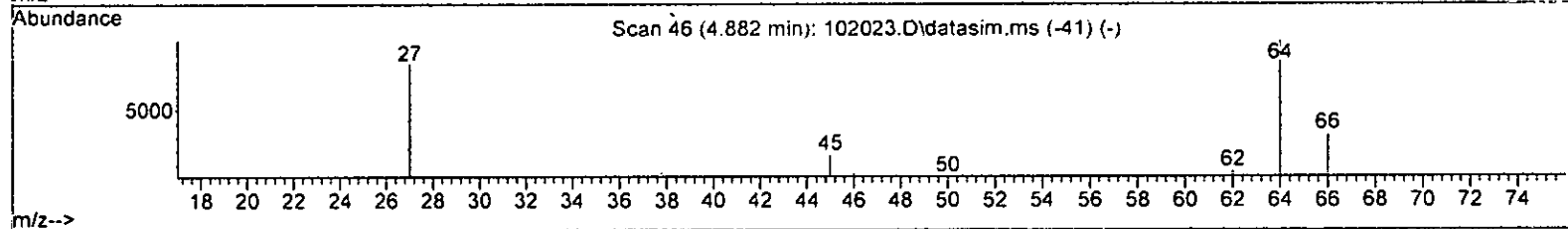
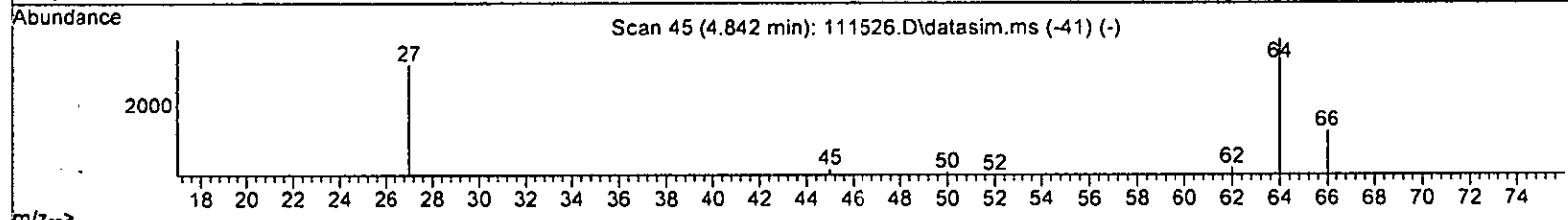
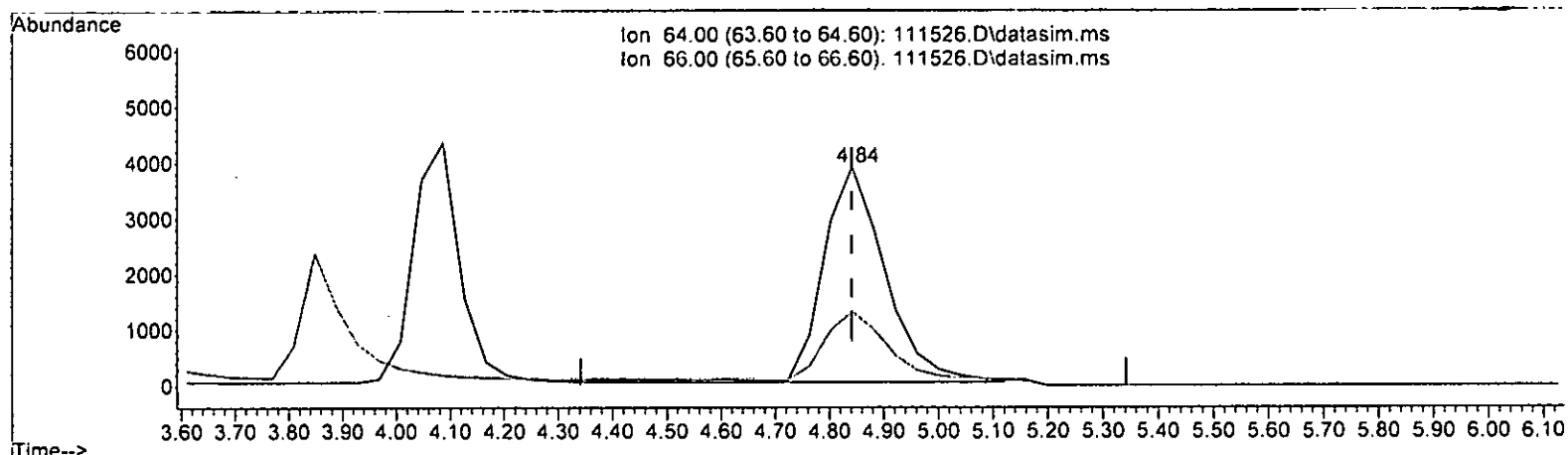
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	8.117 ppbv	
response	30758	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	33.81
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111526.D\data.ms

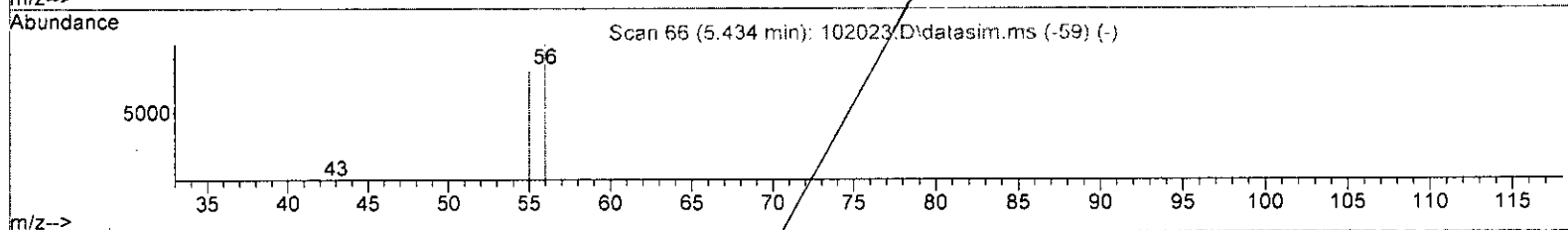
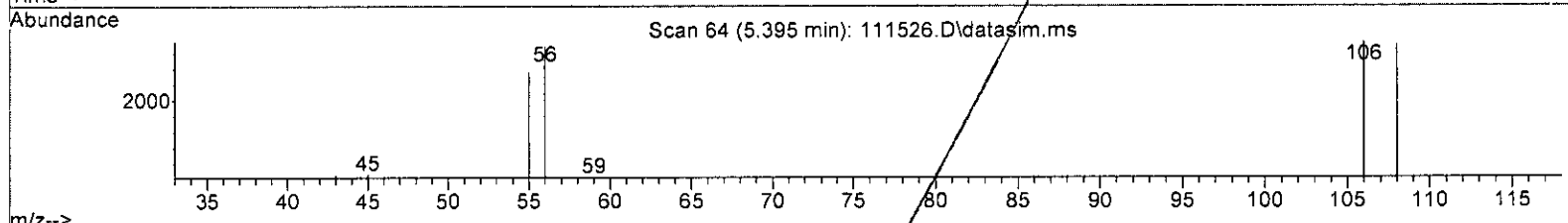
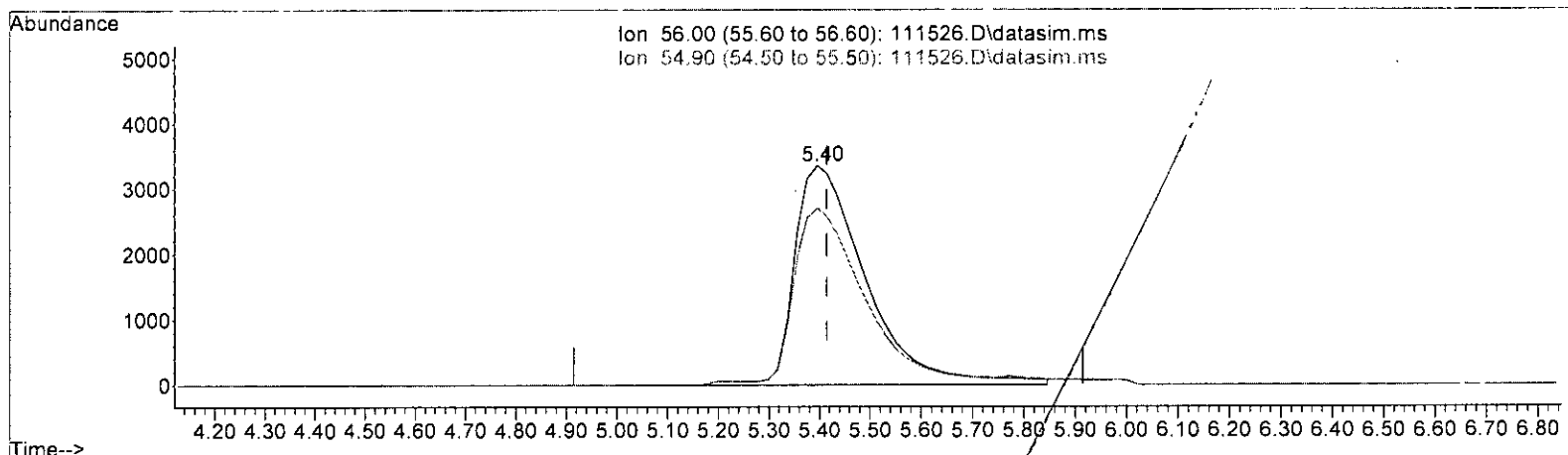
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	7.938 ppbv m	
response	30082	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	33.81
0.00	0.00	0.00
0.00	0.00	0.00

*h / 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111526.D\data.ms

(13) Acrolein (TMP)  
 5.395min (-0.020) 8.220 ppbv  
 response 34689

Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	81.75
0.00	0.00	0.00
0.00	0.00	0.00

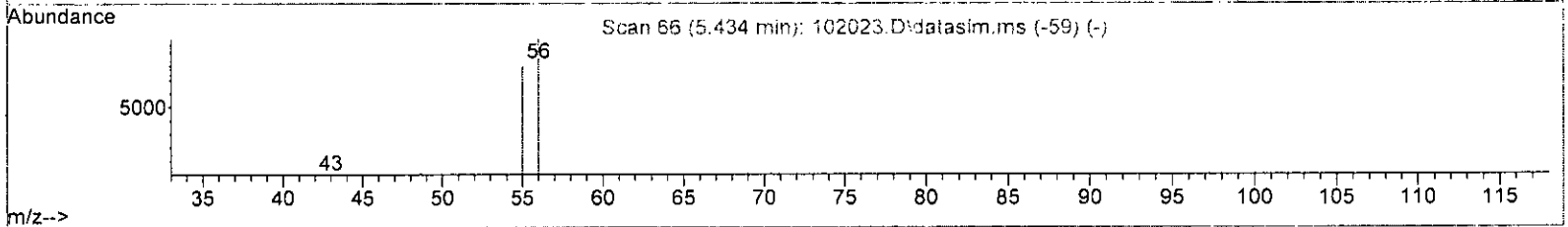
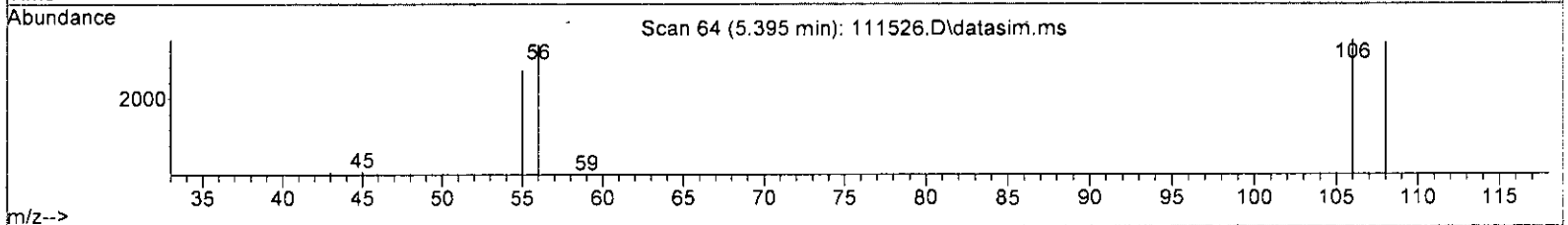
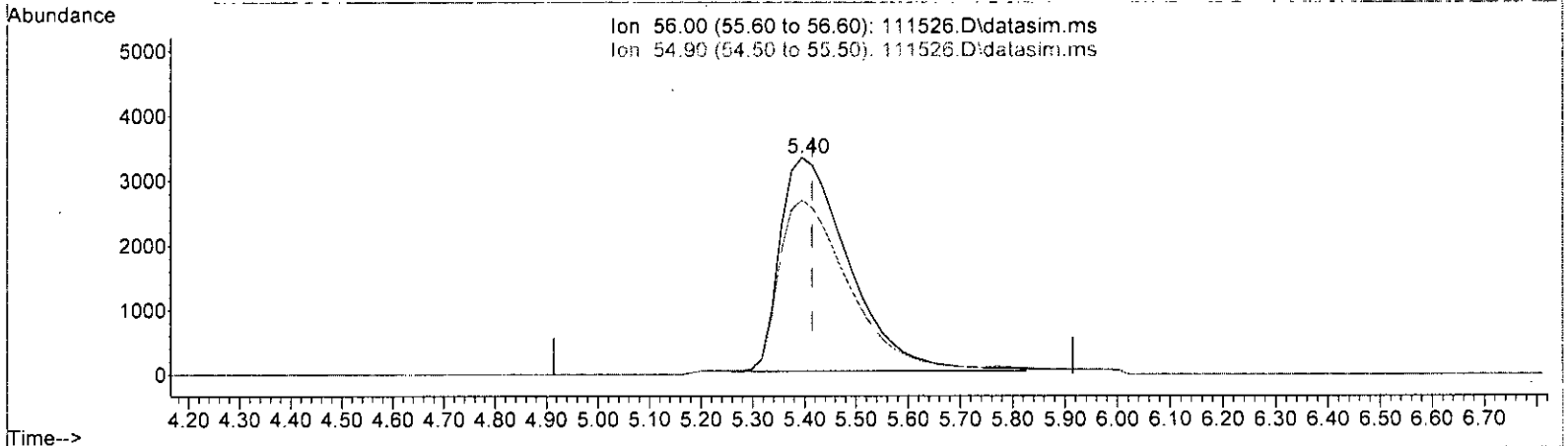
*Handwritten signature*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111526.D\data.ms

(13) Acrolein (TMP)			
5.395min (-0.020) 7.257 ppbv m			
response	30626		
Ion	Exp%	Act%	
56.00	100.00	100.00	
54.90	81.00	92.59	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	57898	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	276532	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	249716	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	184609	10.668	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	106.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	60607	7.880	ppbv	90
3) Dichlorodifluoromethane	3.49	85	194773	8.160	ppbv	99
4] Chloromethane	3.73	50	82724m	7.590	ppbv	
5) F-114	3.84	85	189665	7.768	ppbv	99
6] Vinyl chloride	4.09	62	80482	7.512	ppbv	98
7] 1,3-Butadiene	4.25	54	54000	7.670	ppbv #	94
8) Butane	4.32	43	99785	7.896	ppbv	98
9) Bromomethane	4.60	94	78745	7.363	ppbv	100
10] Chloroethane	4.84	64	30082m	7.938	ppbv	
11] Vinyl bromide	5.30	106	81586	8.756	ppbv	99
12) Ethanol	4.92	45	27496	7.161	ppbv	99
13] Acrolein	5.40	56	30626m	7.257	ppbv	
14) Pentane	6.25	43	115932	8.137	ppbv	100
15) Trichlorofluoromethane	5.84	101	219943	7.945	ppbv	96
16) Acetone	5.53	58	29407	7.149	ppbv #	82
17) 2-Propanol	5.78	45	145706	8.129	ppbv	98
18] 1,1-Dichloroethene	6.63	96	69577	7.304	ppbv	97
19] trans-1,2-Dichloroethene	8.07	96	70087	7.576	ppbv	87
20) Methylene chloride	6.80	84	67913	7.932	ppbv	97
21) t-Butyl alcohol (TBA)	6.57	59	126997	8.222	ppbv #	78
22) 3-Chloropropene	6.94	41	100017	8.401	ppbv	98
23) CFC-113	7.15	101	156633	7.798	ppbv	99
24) Carbon disulfide	7.25	76	242981	8.122	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	162580	8.178	ppbv	98
26) Vinyl acetate	8.54	43	191921	8.721	ppbv	99
27] 1,1-Dichloroethane	8.36	63	149826	7.742	ppbv	100
28] cis-1,2-Dichloroethene	9.64	96	74328	7.596	ppbv	95
29) Hexane	10.01	57	102225	8.537	ppbv	100
30] Chloroform	10.08	83	172350	8.045	ppbv	97
31) Ethyl acetate	9.92	43	181174	8.260	ppbv	99
32) Tetrahydrofuran	10.73	42	82156	7.842	ppbv	100
33) 2-Butanone (MEK)	8.88	72	28610	7.984	ppbv #	93
34] 1,2-Dichloroethane (EDC)	11.34	62	116150	8.064	ppbv	99
35] 1,1,1-Trichloroethane	11.81	97	155431	8.029	ppbv	98
36] Carbon tetrachloride	12.86	117	162195	7.953	ppbv	97
37] Benzene	12.61	78	236754	8.082	ppbv	94
38) Cyclohexane	13.07	84	62880	7.945	ppbv	99
40] 1,2-Dichloropropane	13.80	63	110626	7.389	ppbv	99

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

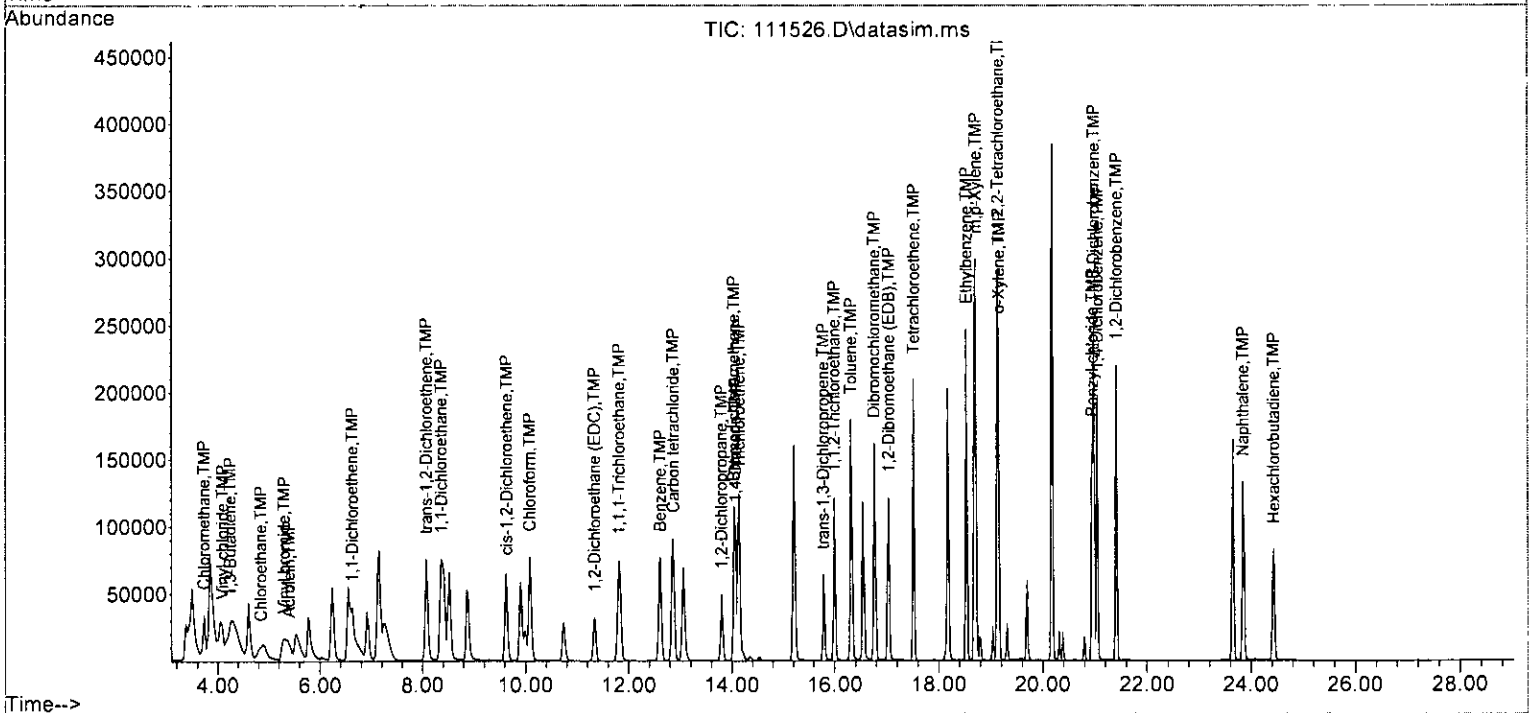
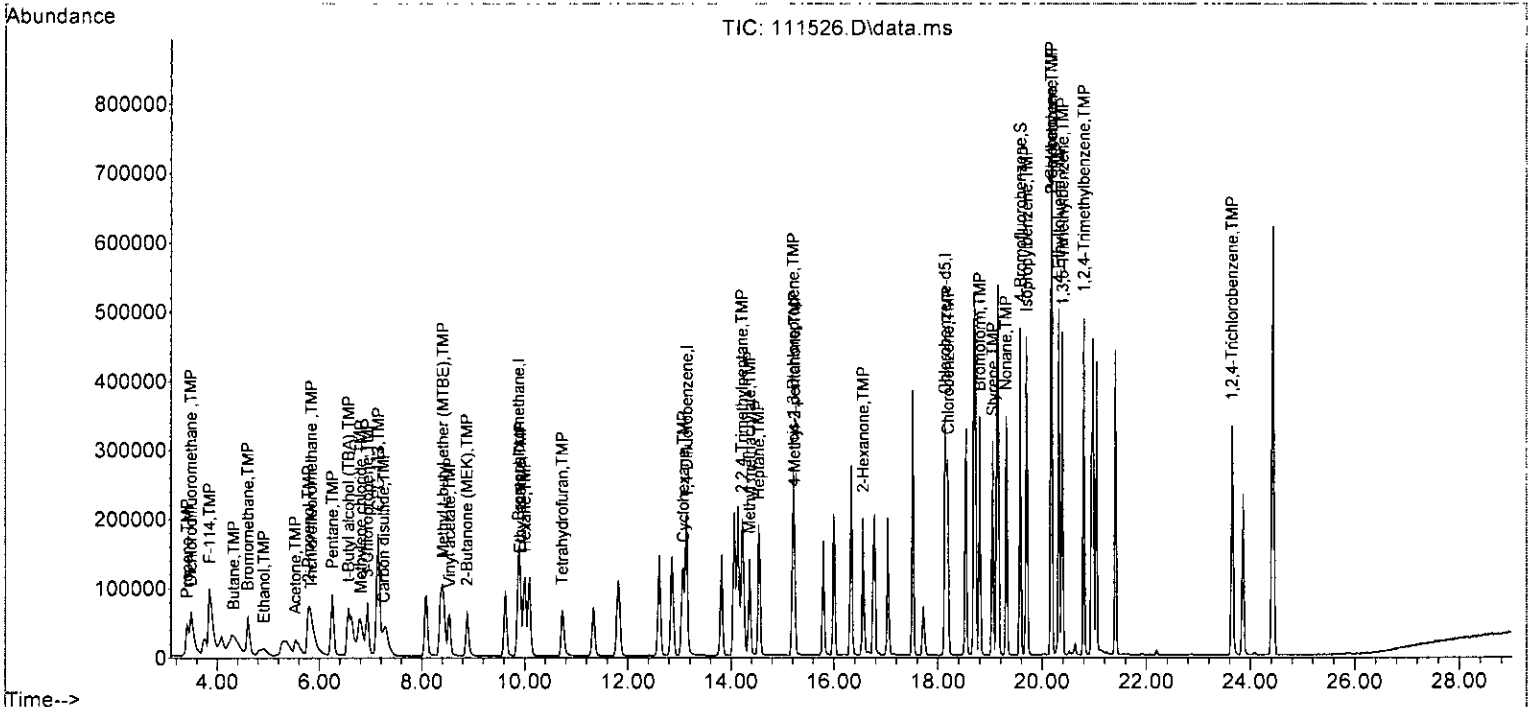
Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	47661	7.485	ppbv	96
42) 2,2,4-Trimethylpentane	14.21	57	352715	7.980	ppbv	95
43) Methyl methacrylate	14.36	41	106611	7.945	ppbv	99
44) Heptane	14.53	43	148087	8.072	ppbv	99
45] Bromodichloromethane	14.04	83	182777	7.780	ppbv	98
46] Trichloroethene	14.14	95	114292	6.968	ppbv	89
47) cis-1,3-Dichloropropene	15.20	75	136023	8.216	ppbv	99
48) 4-Methyl-2-pentanone	15.23	100	10309	8.424	ppbv #	91
49] trans-1,3-Dichloropropene	15.78	75	128251	8.236	ppbv	84
50] Toluene	16.31	92	149046	7.623	ppbv	94
51] 1,1,2-Trichloroethane	16.00	83	107175	7.887	ppbv	90
52) 2-Hexanone	16.56	43	190304	8.132	ppbv	100
53] Tetrachloroethene	17.52	164	99097	7.316	ppbv	94
54] Dibromochloromethane	16.76	129	186526	7.836	ppbv	100
55] 1,2-Dibromoethane (EDB)	17.04	107	158882	7.885	ppbv	100
57) Chlorobenzene	18.19	112	206369	7.507	ppbv	99
58] Ethylbenzene	18.53	91	346285	7.913	ppbv	96
59] 1,1,2,2-Tetrachloroethane	19.13	83	247900	7.830	ppbv	91
60) Nonane	19.30	43	213529	8.720	ppbv	99
61) Isopropylbenzene	19.70	105	357839	7.997	ppbv	99
62) 2-Chlorotoluene	20.17	126	88909	7.947	ppbv	96
63) Propylbenzene	20.17	91	708723	8.621	ppbv	100
64) 4-Ethyltoluene	20.32	105	344349	8.558	ppbv	100
65] m,p-Xylene	18.70	106	254241	16.077	ppbv	94
66] o-Xylene	19.15	106	121142	7.891	ppbv	97
67) Styrene	19.05	104	175394	8.577	ppbv	99
68) Bromoform	18.80	173	197351	7.685	ppbv	99
70] Benzyl chloride	20.95	91	255045	8.233	ppbv	100
71) 1,3,5-Trimethylbenzene	20.39	105	311808	8.612	ppbv	99
72) 1,2,4-Trimethylbenzene	20.80	105	292011	8.027	ppbv	99
73] 1,3-Dichlorobenzene	20.98	146	212478	8.409	ppbv	97
74] 1,4-Dichlorobenzene	21.05	146	200868	8.495	ppbv	98
75] 1,2-Dichlorobenzene	21.41	146	211087	8.253	ppbv	92
76) 1,2,4-Trichlorobenzene	23.64	180	162307	8.193	ppbv	97
77] Naphthalene	23.84	128	279810	8.318	ppbv	99
78] Hexachlorobutadiene	24.44	225	201399	7.721	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	8.000	7.880	1.5	100	0.00
3 TMP Dichlorodifluoromethane	8.000	8.160	-2.0	100	0.00
4 TMP Chloromethane	8.000	7.590	5.1	100	0.00
5 TMP F-114	8.000	7.768	2.9	101	-0.04
6 TMP Vinyl chloride	8.000	7.512	6.1	100	0.00
7 TMP 1,3-Butadiene	8.000	7.670	4.1	100	-0.04
8 TMP Butane	8.000	7.896	1.3	101	0.00
9 TMP Bromomethane	8.000	7.363	8.0	100	0.00
10 TMP Chloroethane	8.000	7.938	0.8	101	0.00
11 TMP Vinyl bromide	8.000	8.756	-9.5	100	-0.02
12 TMP Ethanol	8.000	7.161	10.5	100	-0.04
13 TMP Acrolein	8.000	7.257	9.3	102	-0.02
14 TMP Pentane	8.000	8.137	-1.7	100	0.00
15 TMP Trichlorofluoromethane	8.000	7.945	0.7	100	0.00
16 TMP Acetone	8.000	7.149	10.6	100	-0.04
17 TMP 2-Propanol	8.000	8.129	-1.6	98	0.00
18 TMP 1,1-Dichloroethene	8.000	7.304	8.7	100	0.00
19 TMP trans-1,2-Dichloroethene	8.000	7.576	5.3	100	-0.03
20 TMP Methylene chloride	8.000	7.932	0.8	100	0.00
21 TMP t-Butyl alcohol (TBA)	8.000	8.222	-2.8	100	0.00
22 TMP 3-Chloropropene	8.000	8.401	-5.0	100	0.00
23 TMP CFC-113	8.000	7.798	2.5	100	0.00
24 TMP Carbon disulfide	8.000	8.122	-1.5	100	-0.03
25 TMP Methyl t-butyl ether (MTBE)	8.000	8.178	-2.2	100	-0.03
26 TMP Vinyl acetate	8.000	8.721	-9.0	100	0.00
27 TMP 1,1-Dichloroethane	8.000	7.742	3.2	100	0.00
28 TMP cis-1,2-Dichloroethene	8.000	7.596	5.0	100	0.00
29 TMP Hexane	8.000	8.537	-6.7	100	0.00
30 TMP Chloroform	8.000	8.045	-0.6	100	-0.02
31 TMP Ethyl acetate	8.000	8.260	-3.2	100	0.00
32 TMP Tetrahydrofuran	8.000	7.842	2.0	100	-0.02
33 TMP 2-Butanone (MEK)	8.000	7.984	0.2	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	8.000	8.064	-0.8	100	0.00
35 TMP 1,1,1-Trichloroethane	8.000	8.029	-0.4	100	-0.01
36 TMP Carbon tetrachloride	8.000	7.953	0.6	100	0.00
37 TMP Benzene	8.000	8.082	-1.0	100	0.00
38 TMP Cyclohexane	8.000	7.945	0.7	100	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	8.000	7.389	7.6	100	0.00
41 TMP 1,4-Dioxane	8.000	7.485	6.4	100	-0.02
42 TMP 2,2,4-Trimethylpentane	8.000	7.980	0.2	100	-0.02
43 TMP Methyl methacrylate	8.000	7.945	0.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	8.000	8.072	-0.9	100	-0.02
45 TMP Bromodichloromethane	8.000	7.780	2.7	100	0.00
46 TMP Trichloroethene	8.000	6.968	12.9	100	0.00
47 TMP cis-1,3-Dichloropropene	8.000	8.216	-2.7	100	0.00
48 TMP 4-Methyl-2-pentanone	8.000	8.424	-5.3	100	0.00
49 TMP trans-1,3-Dichloropropene	8.000	8.236	-3.0	100	0.00
50 TMP Toluene	8.000	7.623	4.7	100	0.00
51 TMP 1,1,2-Trichloroethane	8.000	7.887	1.4	100	0.00
52 TMP 2-Hexanone	8.000	8.132	-1.6	100	0.00
53 TMP Tetrachloroethene	8.000	7.316	8.6	100	0.00
54 TMP Dibromochloromethane	8.000	7.836	2.0	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	8.000	7.885	1.4	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	8.000	7.507	6.2	100	0.00
58 TMP Ethylbenzene	8.000	7.913	1.1	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	8.000	7.830	2.1	100	0.00
60 TMP Nonane	8.000	8.720	-9.0	100	0.00
61 TMP Isopropylbenzene	8.000	7.997	0.0	100	0.00
62 TMP 2-Chlorotoluene	8.000	7.947	0.7	100	0.00
63 TMP Propylbenzene	8.000	8.621	-7.8	100	-0.01
64 TMP 4-Ethyltoluene	8.000	8.558	-7.0	100	0.00
65 TMP m,p-Xylene	16.000	16.077	-0.5	100	0.00
66 TMP o-Xylene	8.000	7.891	1.4	100	0.00
67 TMP Styrene	8.000	8.577	-7.2	100	0.00
68 TMP Bromoform	8.000	7.685	3.9	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.668	-6.7	100	0.00
70 TMP Benzyl chloride	8.000	8.233	-2.9	101	0.00
71 TMP 1,3,5-Trimethylbenzene	8.000	8.612	-7.7	100	0.00
72 TMP 1,2,4-Trimethylbenzene	8.000	8.027	-0.3	100	0.00
73 TMP 1,3-Dichlorobenzene	8.000	8.409	-5.1	100	0.00
74 TMP 1,4-Dichlorobenzene	8.000	8.495	-6.2	100	0.00
75 TMP 1,2-Dichlorobenzene	8.000	8.253	-3.2	100	0.00
76 TMP 1,2,4-Trichlorobenzene	8.000	8.193	-2.4	100	0.00
77 TMP Naphthalene	8.000	8.318	-4.0	100	0.00
78 TMP Hexachlorobutadiene	8.000	7.721	3.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.308	15.9	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.205	-2.0	100	0.00
4 TMP Chloromethane	1.882	1.786	5.1	100	0.00
5 TMP F-114	4.217	4.095	2.9	101	-0.04
6 TMP Vinyl chloride	1.851	1.738	6.1	100	0.00
7 TMP 1,3-Butadiene	1.216	1.166	4.1	100	-0.04
8 TMP Butane	2.183	2.154	1.3	101	0.00
9 TMP Bromomethane	1.847	1.700	8.0	100	0.00
10 TMP Chloroethane	0.655	0.649	0.9	101	0.00
11 TMP Vinyl bromide	1.609	1.761	-9.4	100	-0.02
12 TMP Ethanol	0.663	0.594	10.4	100	-0.04
13 TMP Acrolein	0.729	0.661	9.3	102	-0.02
14 TMP Pentane	2.461	2.503	-1.7	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.749	0.7	100	0.00
16 TMP Acetone	0.710	0.635	10.6	100	-0.04
17 TMP 2-Propanol	3.096	3.146	-1.6	98	0.00
18 TMP 1,1-Dichloroethene	1.645	1.502	8.7	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.513	5.3	100	-0.03
20 TMP Methylene chloride	1.479	1.466	0.9	100	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.742	-2.8	100	0.00
22 TMP 3-Chloropropene	2.056	2.159	-5.0	100	0.00
23 TMP CFC-113	3.469	3.382	2.5	100	0.00
24 TMP Carbon disulfide	5.167	5.246	-1.5	100	-0.03
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.510	-2.2	100	-0.03
26 TMP Vinyl acetate	3.801	4.144	-9.0	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.235	3.2	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.605	5.0	100	0.00
29 TMP Hexane	2.068	2.207	-6.7	100	0.00
30 TMP Chloroform	4.060	3.721	8.3	100	-0.02
31 TMP Ethyl acetate	3.789	3.911	-3.2	100	0.00
32 TMP Tetrahydrofuran	1.809	1.774	1.9	100	-0.02
33 TMP 2-Butanone (MEK)	0.619	0.618	0.2	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.508	6.7	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.356	-0.4	100	-0.01
36 TMP Carbon tetrachloride	3.523	3.502	0.6	100	0.00
37 TMP Benzene	5.688	5.111	10.1	100	0.00
38 TMP Cyclohexane	1.367	1.358	0.7	100	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
40 TMP 1,2-Dichloropropane	0.541	0.500	7.6	100	0.00
41 TMP 1,4-Dioxane	0.230	0.215	6.5	100	-0.02
42 TMP 2,2,4-Trimethylpentane	1.598	1.594	0.3	100	-0.02
43 TMP Methyl methacrylate	0.485	0.482	0.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111526.D  
 Acq On : 16 Nov 2022 10:10 am  
 Operator : bat  
 Sample : 8.0 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 26 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:10:39 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.669	-0.9	100	-0.02
45 TMP Bromodichloromethane	0.850	0.826	2.8	100	0.00
46 TMP Trichloroethene	0.593	0.517	12.8	100	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.615	-2.7	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.047	-6.8	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.580	-3.0	100	0.00
50 TMP Toluene	0.707	0.674	4.7	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.484	12.0	100	0.00
52 TMP 2-Hexanone	0.846	0.860	-1.7	100	0.00
53 TMP Tetrachloroethene	0.490	0.448	8.6	100	0.00
54 TMP Dibromochloromethane	0.861	0.843	2.1	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.718	12.9	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.033	6.2	100	0.00
58 TMP Ethylbenzene	1.968	1.733	11.9	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.241	11.0	100	0.00
60 TMP Nonane	0.981	1.069	-9.0	100	0.00
61 TMP Isopropylbenzene	1.792	1.791	0.1	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.445	0.7	100	0.00
63 TMP Propylbenzene	3.292	3.548	-7.8	100	-0.01
64 TMP 4-Ethyltoluene	1.611	1.724	-7.0	100	0.00
65 TMP m,p-Xylene	0.633	0.636	-0.5	100	0.00
66 TMP o-Xylene	0.615	0.606	1.5	100	0.00
67 TMP Styrene	0.819	0.878	-7.2	100	0.00
68 TMP Bromoform	1.028	0.988	3.9	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.739	-6.6	100	0.00
70 TMP Benzyl chloride	0.987	1.277	-29.4	101	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.561	-7.7	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.462	-17.2	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.064	-5.1	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.005	-6.1	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.057	-3.2	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.812	-29.7	100	0.00
77 TMP Naphthalene	1.132	1.401	-23.8	100	0.00
78 TMP Hexachlorobutadiene	1.045	1.008	3.5	100	0.00

(#) = Out of Range

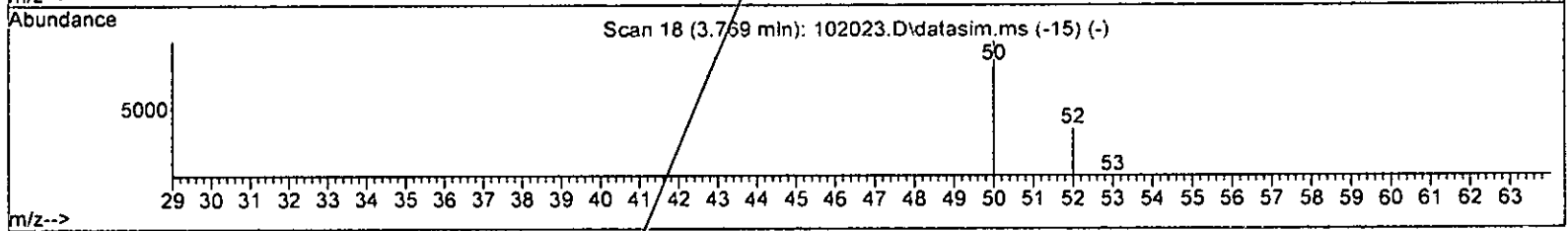
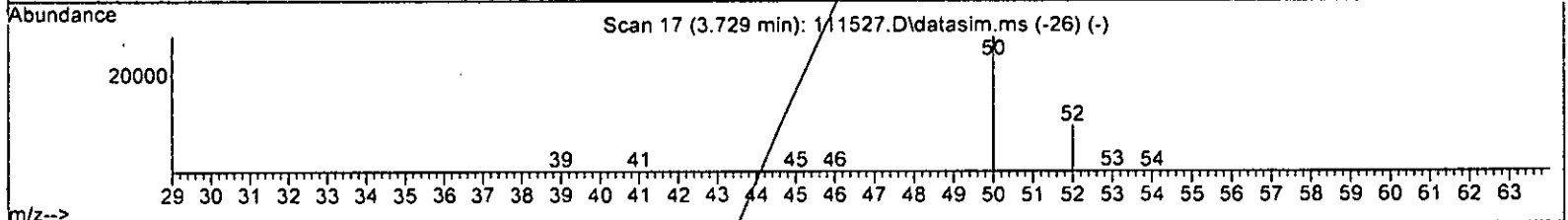
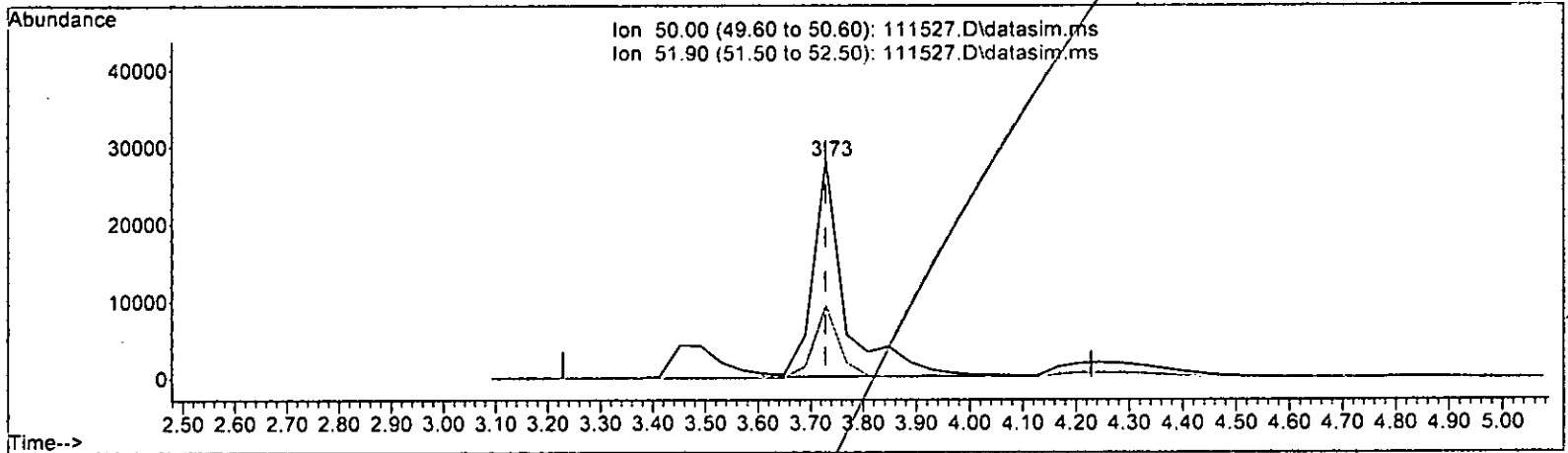
SPCC's out = 0 CCC's out = 0



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

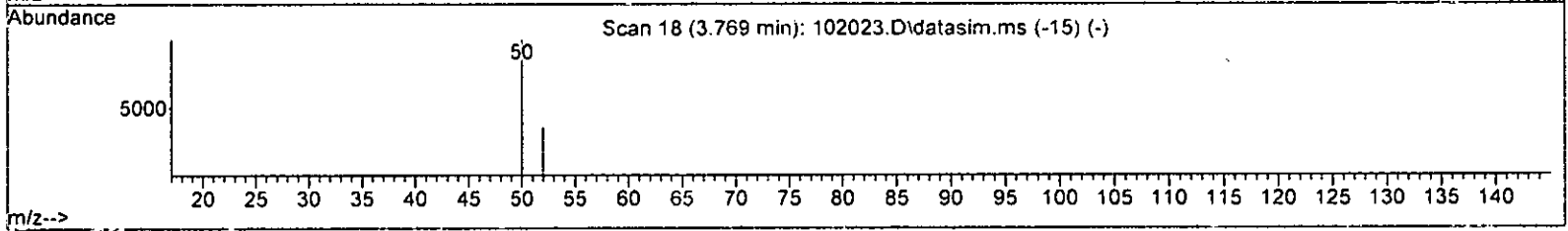
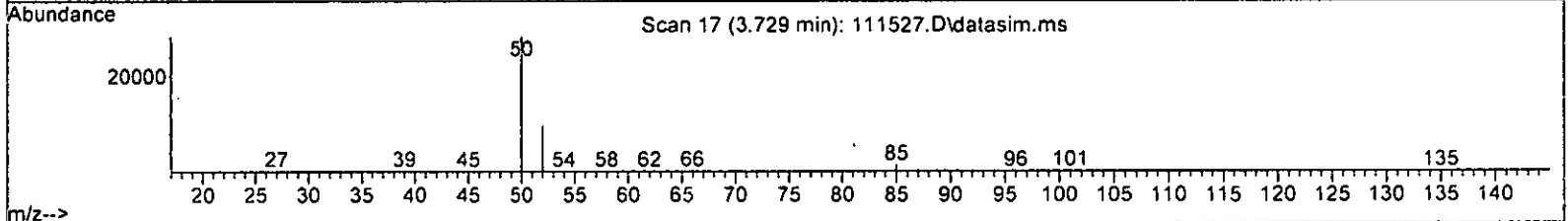
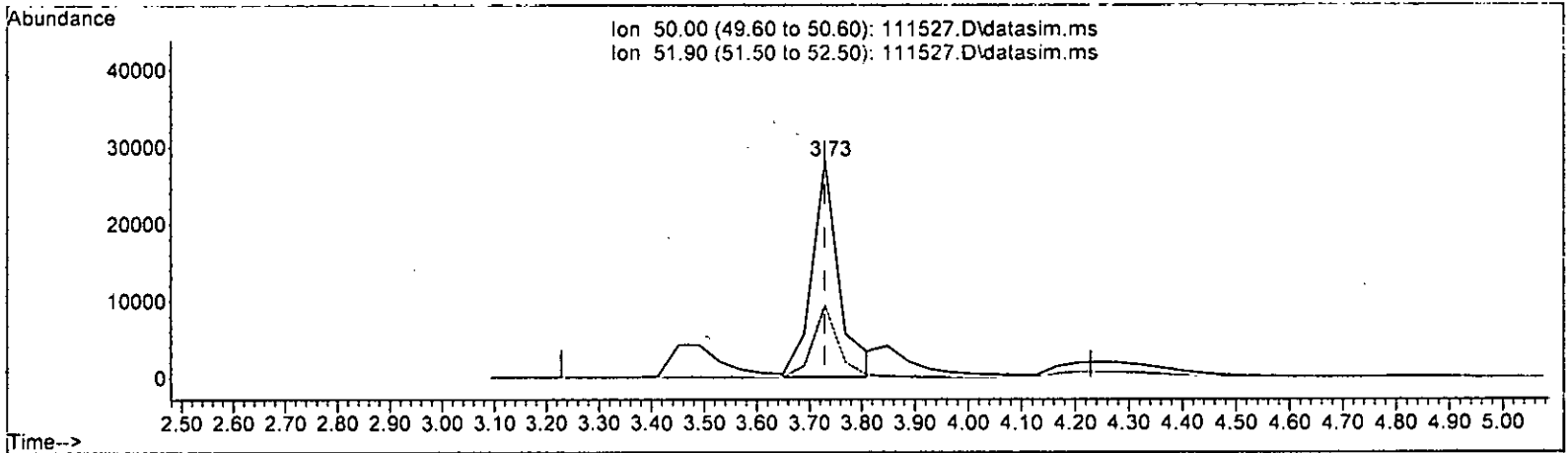
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	10.787 ppbv	
response	118499	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	33.58
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: h/ll*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

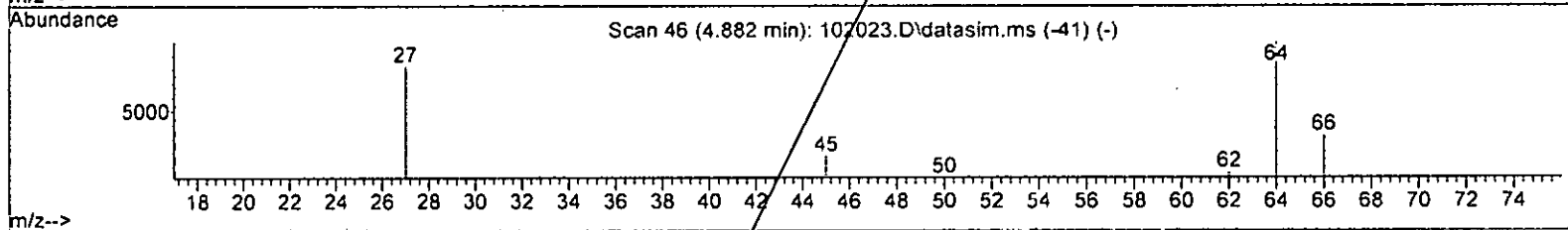
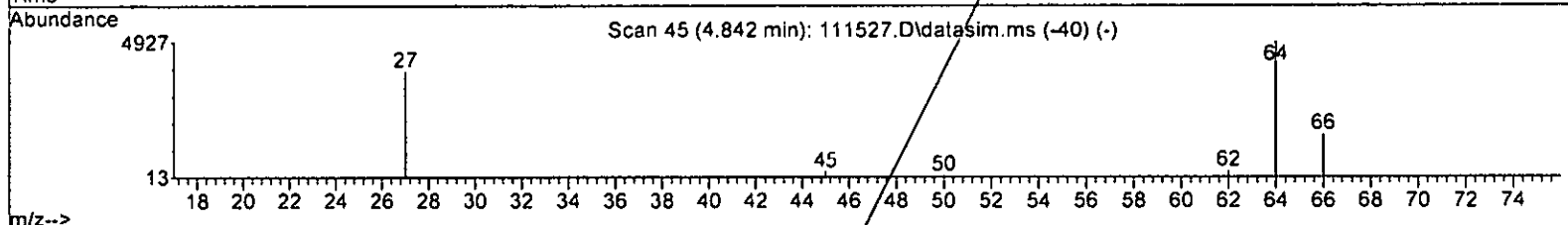
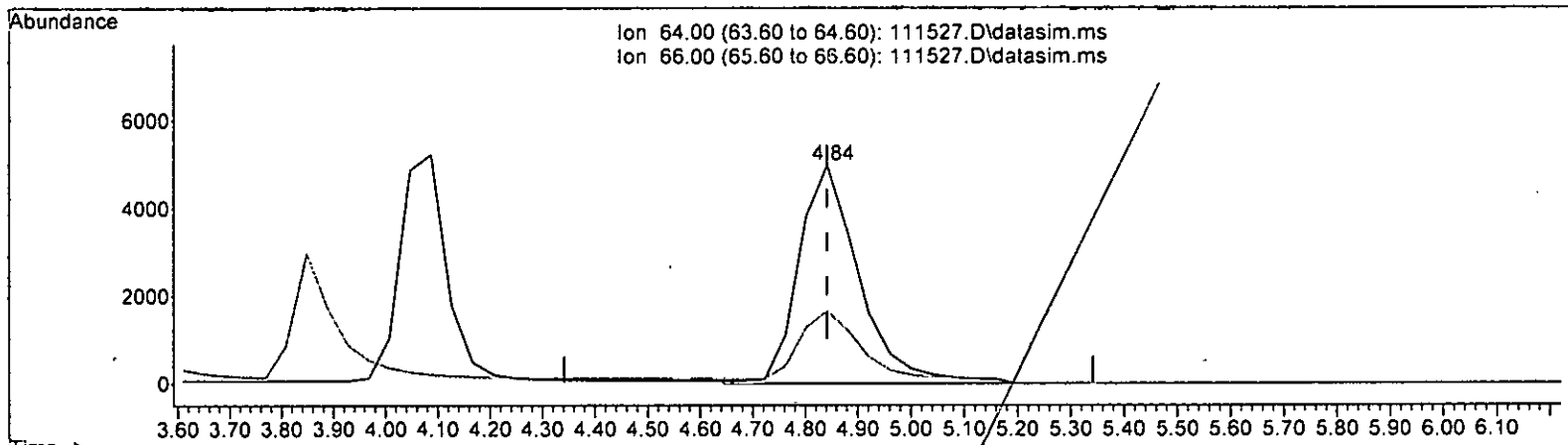
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	9.259 ppbv m	
response	101714	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	33.45
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

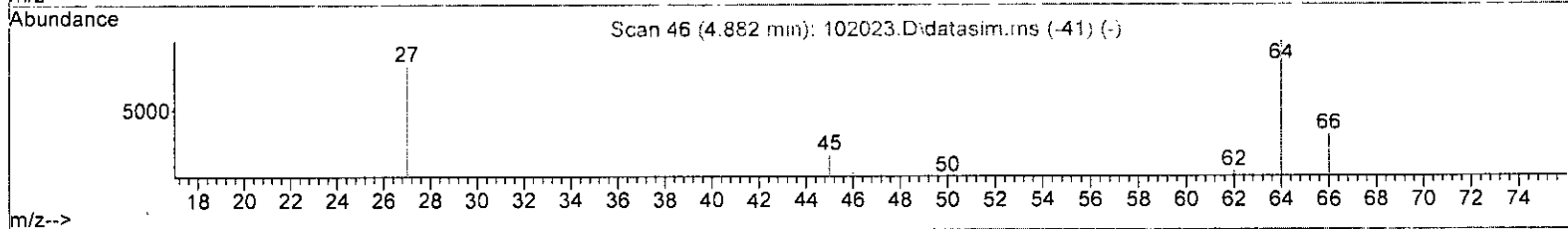
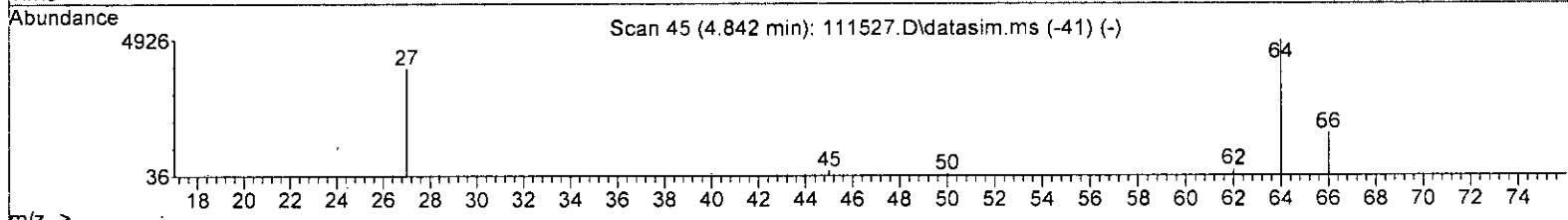
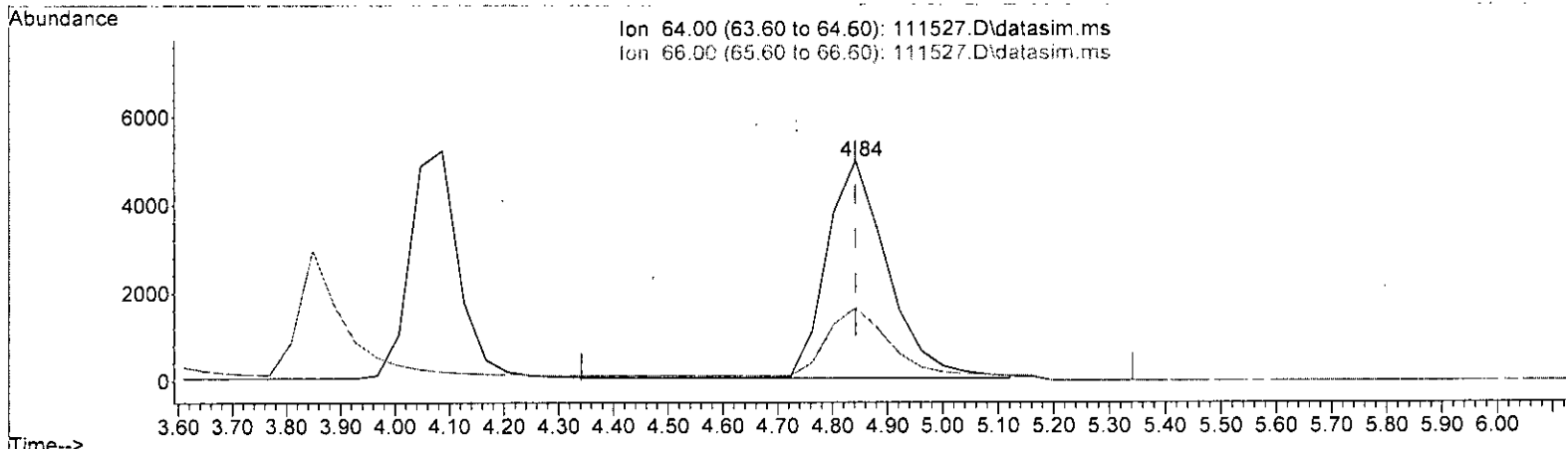
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	10.042 ppbv	
response	38357	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	33.27
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

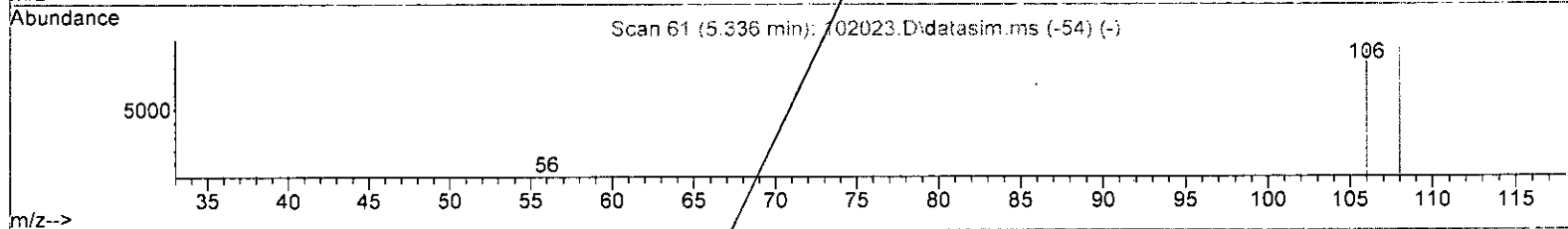
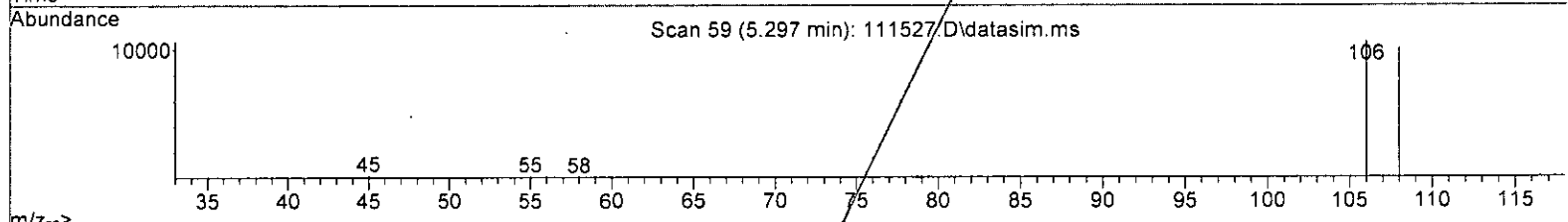
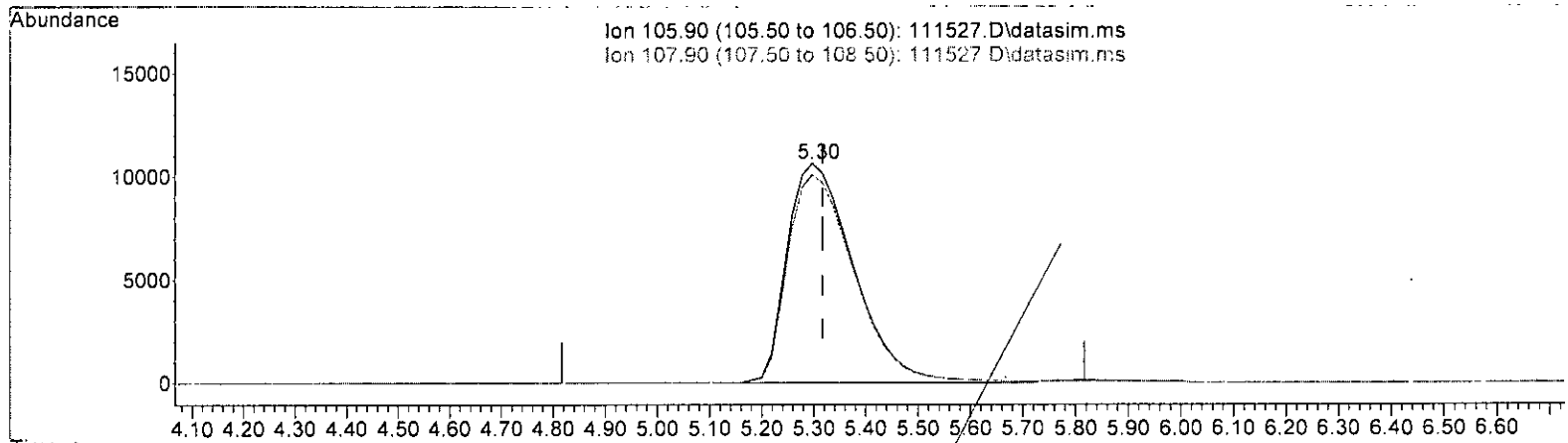
(10)	Chloroethane (TMP)	
4.842min (+ 0.000)	9.932 ppbv m	
response	37934	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	33.27
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

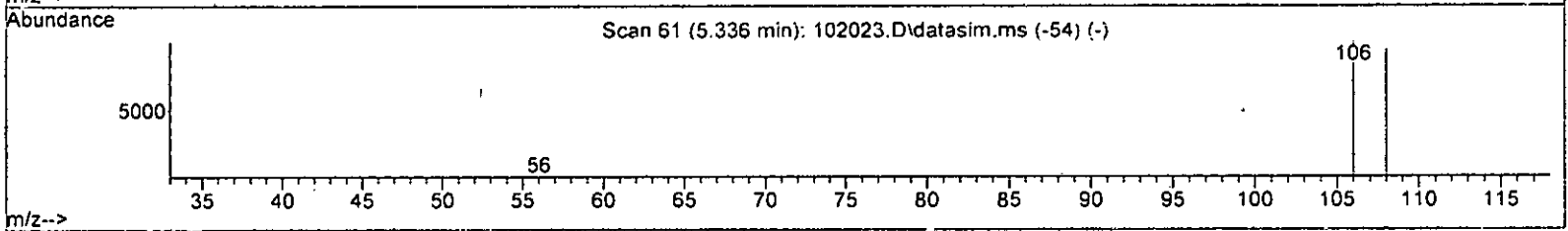
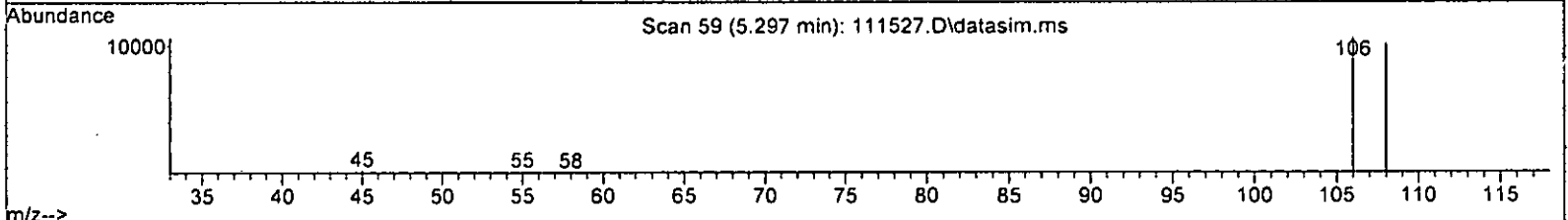
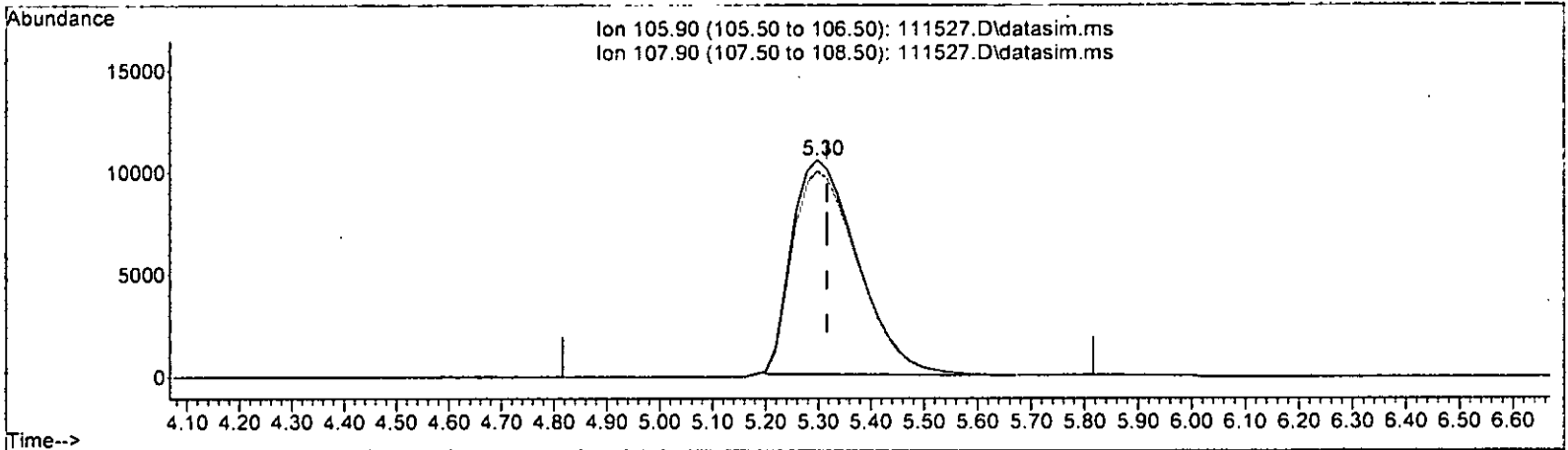
(11) Vinyl bromide (TMP)		
5.297min (-0.020)	10.784 ppbv	
response	101276	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	94.81
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

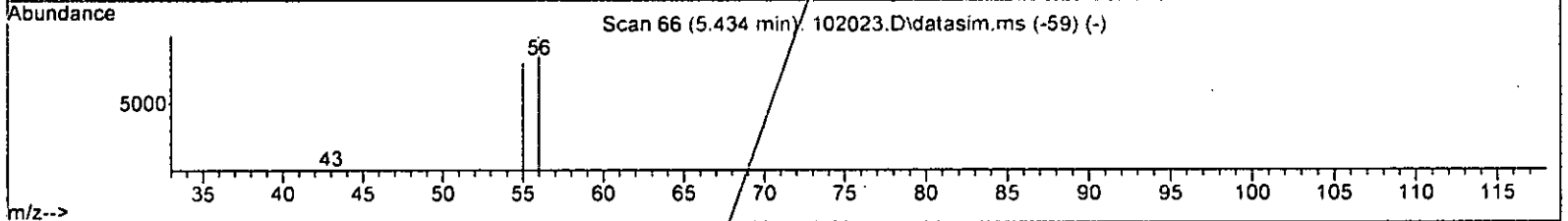
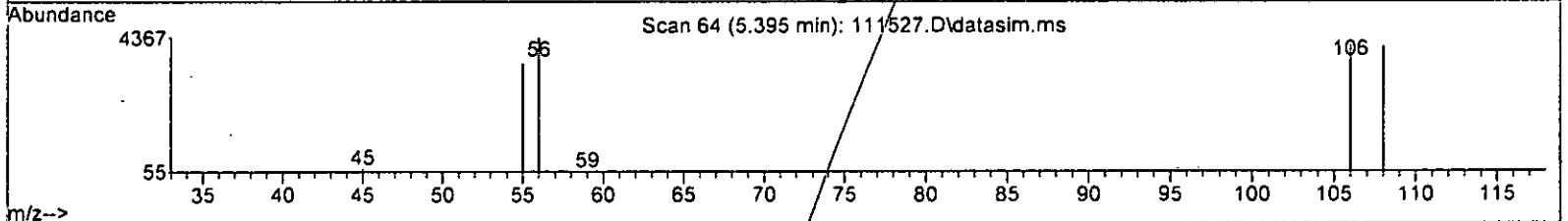
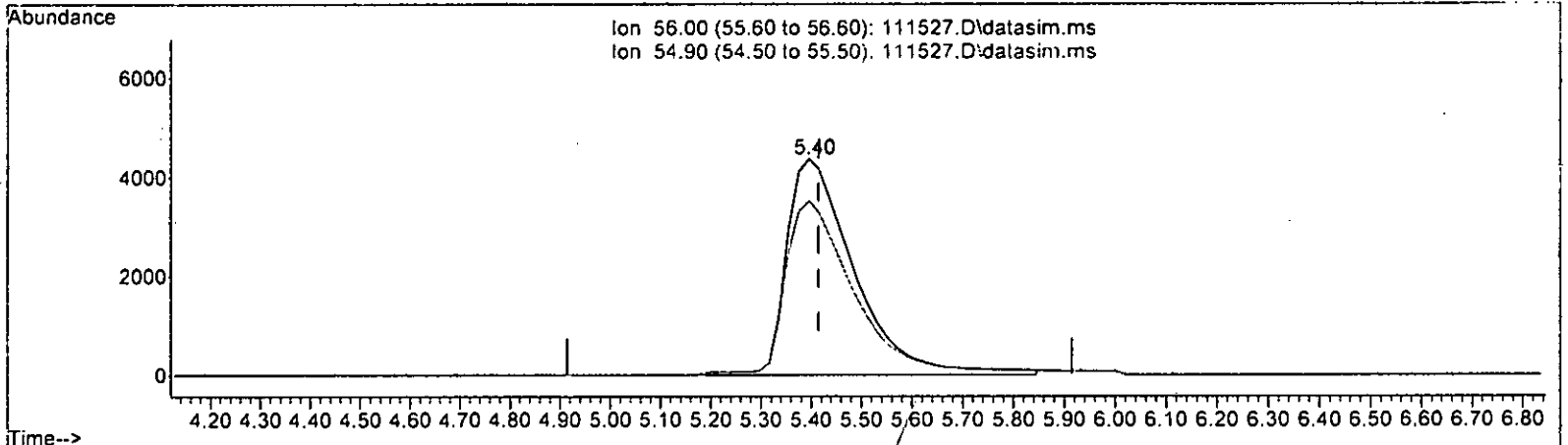
(11) Vinyl bromide (TMP)		
5.297min (-0.020)	9.705 ppbv m	
response	91145	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	105.35
0.00	0.00	0.00
0.00	0.00	0.00

*h/alk*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 111527.D\data.ms

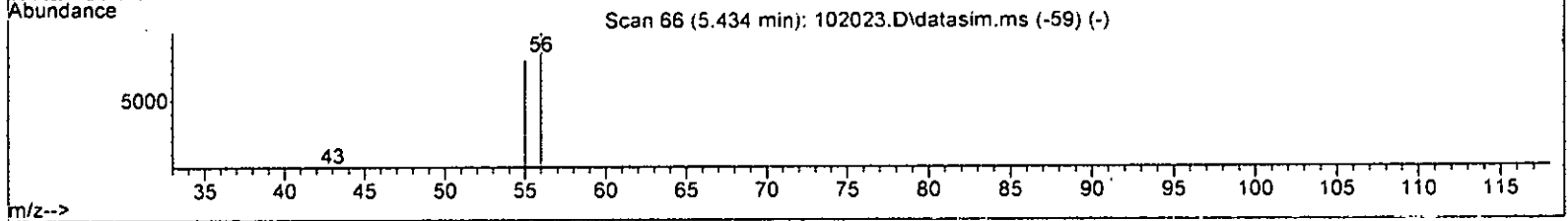
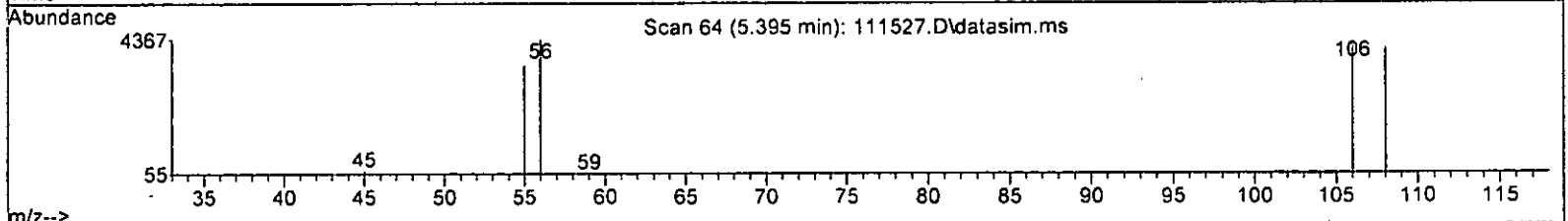
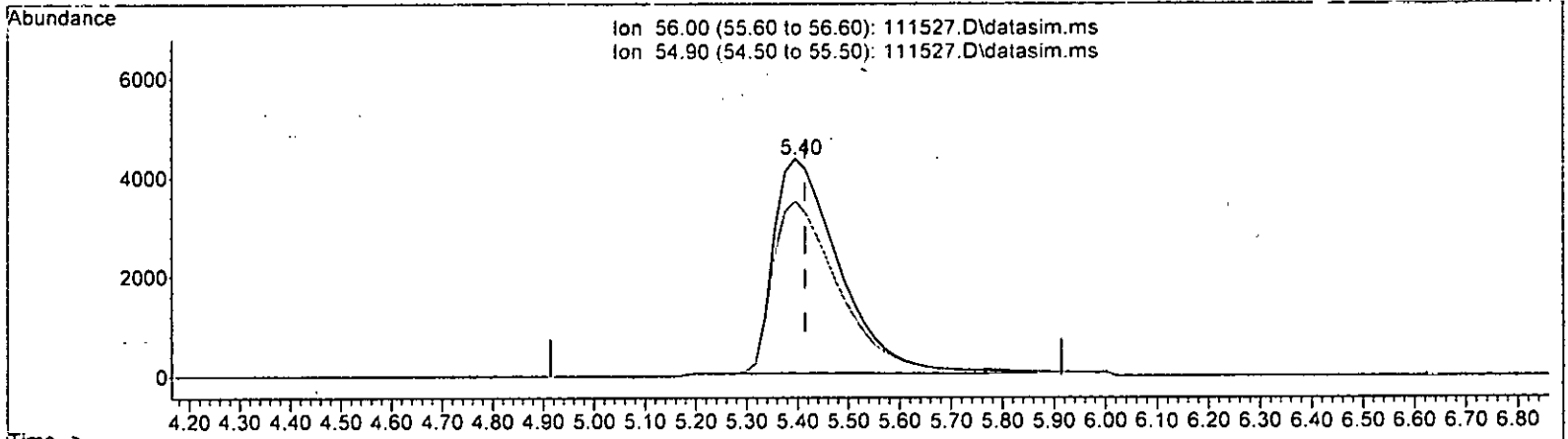
(13) Acrolein (TMP)		
5.395min (-0.020)	10.122 ppbv	
response	43055	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	81.49
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: u/ alr/bw*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111527.D\data.ms

(13) Acrolein (TMP)		
5.395min (-0.020)	9.059 ppbv m	
response	38532	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	91.05
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*



Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	58357	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.12	114	276208	10.000	ppbv	-0.02
56) Chlorobenzene-d5	18.13	117	247864	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	184316	10.730	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	107.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	79041	10.097	ppbv	98
3) Dichlorodifluoromethane	3.49	85	240719	10.006	ppbv	99
4) Chloromethane	3.73	50	101714m	9.259	ppbv	
5) F-114	3.84	85	231743	9.417	ppbv	97
6] Vinyl chloride	4.09	62	100443	9.301	ppbv	98
7] 1,3-Butadiene	4.25	54	67722	9.543	ppbv #	95
8) Butane	4.32	43	128132	10.059	ppbv	100
9) Bromomethane	4.60	94	99986	9.276	ppbv	96
10] Chloroethane	4.84	64	37934m	9.932	ppbv	
11] Vinyl bromide	5.30	106	91145m	9.705	ppbv	
12) Ethanol	4.92	45	32558	8.413	ppbv	92
13] Acrolein	5.40	56	38532m	9.059	ppbv	
14) Pentane	6.25	43	142420	9.918	ppbv	97
15) Trichlorofluoromethane	5.82	101	267583	9.590	ppbv	98
16) Acetone	5.53	58	36911	8.903	ppbv	99
17) 2-Propanol	5.78	45	184321	10.202	ppbv	100
18] 1,1-Dichloroethene	6.63	96	86513	9.010	ppbv	97
19] trans-1,2-Dichloroethene	8.07	96	87383	9.371	ppbv	89
20) Methylene chloride	6.80	84	80765	9.358	ppbv	97
21) t-Butyl alcohol (TBA)	6.57	59	160818	10.330	ppbv #	77
22) 3-Chloropropene	6.94	41	124548	10.380	ppbv	99
23) CFC-113	7.15	101	199138	9.836	ppbv	98
24) Carbon disulfide	7.25	76	302857	10.044	ppbv	96
25) Methyl t-butyl ether (...)	8.41	73	204898	10.225	ppbv	97
26) Vinyl acetate	8.54	43	242603	10.937	ppbv	99
27] 1,1-Dichloroethane	8.36	63	185442	9.507	ppbv	100
28] cis-1,2-Dichloroethene	9.64	96	92706	9.400	ppbv	96
29) Hexane	10.01	57	124929	10.352	ppbv	97
30] Chloroform	10.08	83	213310	10.013	ppbv	96
31) Ethyl acetate	9.92	43	230833	10.441	ppbv	99
32) Tetrahydrofuran	10.74	42	116277	11.012	ppbv	94
33) 2-Butanone (MEK)	8.88	72	36075	9.988	ppbv #	91
34] 1,2-Dichloroethane (EDC)	11.34	62	143645	9.996	ppbv	99
35] 1,1,1-Trichloroethane	11.81	97	192631	9.873	ppbv	98
36] Carbon tetrachloride	12.86	117	200993	9.777	ppbv	97
37] Benzene	12.61	78	294312	10.048	ppbv	94
38) Cyclohexane	13.07	84	79676	9.988	ppbv	99
40] 1,2-Dichloropropane	13.80	63	136722	9.142	ppbv	98

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

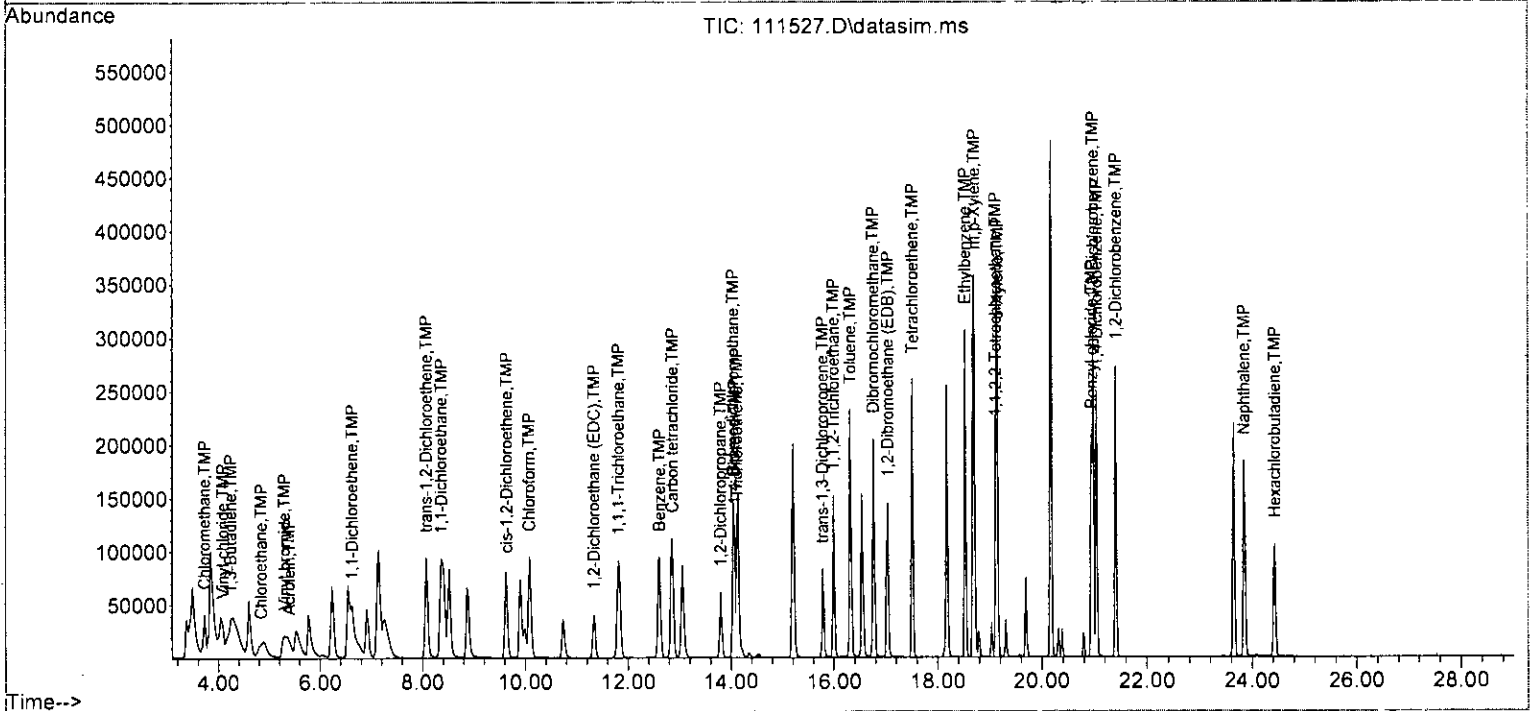
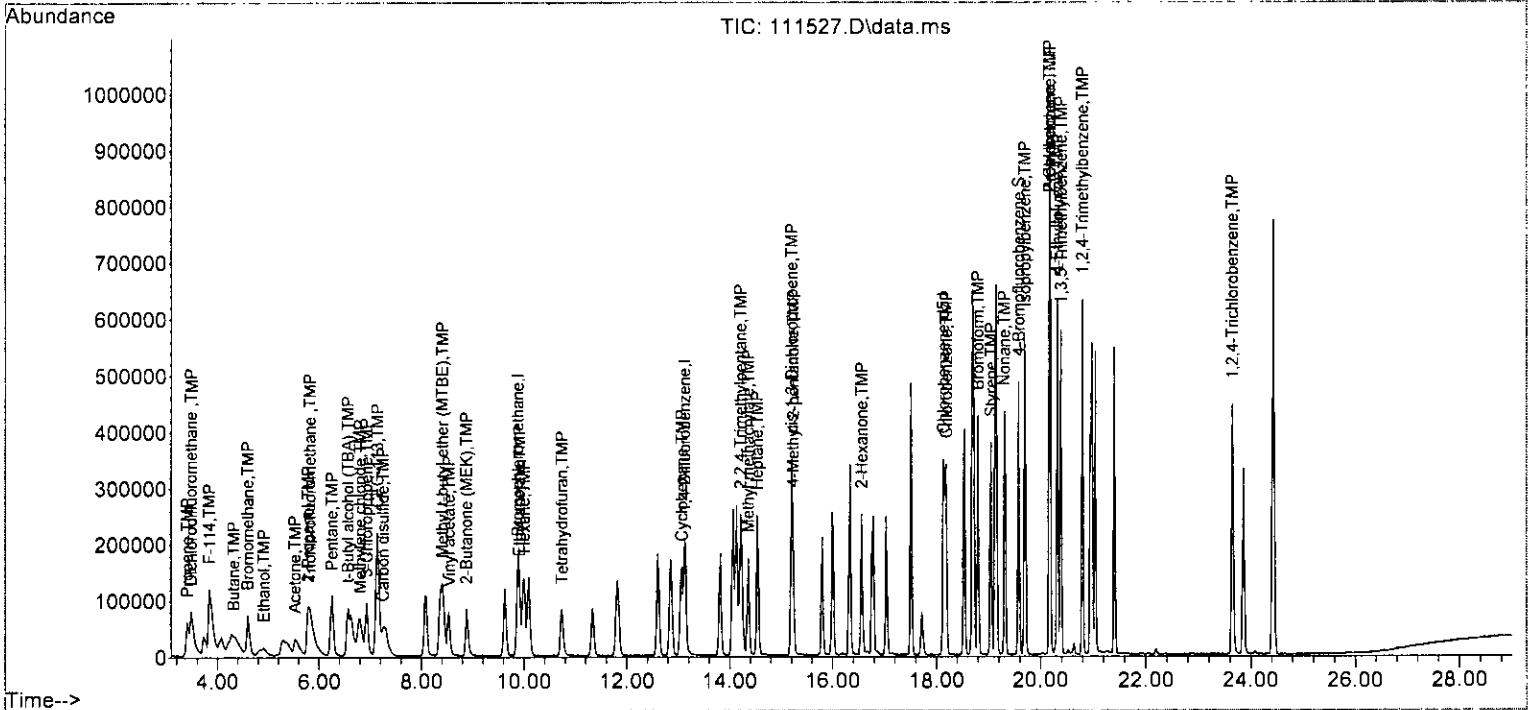
Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	59845	9.410	ppbv	100
42) 2,2,4-Trimethylpentane	14.21	57	438752	9.938	ppbv	97
43) Methyl methacrylate	14.36	41	133782	9.981	ppbv	99
44) Heptane	14.53	43	187312	10.222	ppbv	99
45] Bromodichloromethane	14.04	83	227972	9.715	ppbv	98
46] Trichloroethene	14.12	95	141937	8.664	ppbv	79
47) cis-1,3-Dichloropropene	15.20	75	170395	10.304	ppbv	97
48) 4-Methyl-2-pentanone	15.23	100	13009	10.643	ppbv	98
49] trans-1,3-Dichloropropene	15.78	75	160242	10.302	ppbv	85
50] Toluene	16.31	92	186659	9.558	ppbv	92
51] 1,1,2-Trichloroethane	16.00	83	132436	9.943	ppbv	89
52) 2-Hexanone	16.56	43	247060	10.570	ppbv	96
53] Tetrachloroethene	17.52	164	122486	9.054	ppbv	94
54] Dibromochloromethane	16.76	129	231346	9.730	ppbv	99
55] 1,2-Dibromoethane (EDB)	17.04	107	196013	9.896	ppbv	99
57) Chlorobenzene	18.19	112	255317	9.357	ppbv	99
58] Ethylbenzene	18.53	91	426962	9.898	ppbv	95
59] 1,1,2,2-Tetrachloroethane	19.11	83	304544	9.870	ppbv	91
60) Nonane	19.30	43	268093	11.029	ppbv	99
61) Isopropylbenzene	19.70	105	451414	10.164	ppbv	99
62) 2-Chlorotoluene	20.17	126	112000	10.086	ppbv	94
63) Propylbenzene	20.17	91	884876	10.845	ppbv	99
64) 4-Ethyltoluene	20.32	105	433350	10.851	ppbv	100
65] m,p-Xylene	18.70	106	313361	19.964	ppbv	93
66] o-Xylene	19.15	106	151434	9.937	ppbv	96
67) Styrene	19.05	104	225490	11.109	ppbv	98
68) Bromoform	18.80	173	246216	9.659	ppbv	100
70] Benzyl chloride	20.95	91	321804	10.225	ppbv	100
71) 1,3,5-Trimethylbenzene	20.39	105	389136	10.828	ppbv	99
72) 1,2,4-Trimethylbenzene	20.80	105	369703	10.011	ppbv	100
73] 1,3-Dichlorobenzene	20.98	146	264406	10.542	ppbv	98
74] 1,4-Dichlorobenzene	21.05	146	250616	10.679	ppbv	97
75] 1,2-Dichlorobenzene	21.41	146	262786	10.351	ppbv	93
76) 1,2,4-Trichlorobenzene	23.64	180	220084	10.392	ppbv	99
77] Naphthalene	23.84	128	389489	10.305	ppbv	99
78] Hexachlorobutadiene	24.44	225	247274	9.551	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	10.000	10.097	-1.0	100	0.00
3 TMP Dichlorodifluoromethane	10.000	10.006	-0.1	100	0.00
4 TMP Chloromethane	10.000	9.259	7.4	100	0.00
5 TMP F-114	10.000	9.417	5.8	102	-0.04
6 TMP Vinyl chloride	10.000	9.301	7.0	100	0.00
7 TMP 1,3-Butadiene	10.000	9.543	4.6	100	-0.04
8 TMP Butane	10.000	10.059	-0.6	100	0.00
9 TMP Bromomethane	10.000	9.276	7.2	100	0.00
10 TMP Chloroethane	10.000	9.932	0.7	101	0.00
11 TMP Vinyl bromide	10.000	9.705	2.9	100	-0.02
12 TMP Ethanol	10.000	8.413	15.9	100	-0.04
13 TMP Acrolein	10.000	9.059	9.4	100	-0.02
14 TMP Pentane	10.000	9.918	0.8	100	0.00
15 TMP Trichlorofluoromethane	10.000	9.590	4.1	99	-0.02
16 TMP Acetone	10.000	8.903	11.0	100	-0.04
17 TMP 2-Propanol	10.000	10.202	-2.0	99	0.00
18 TMP 1,1-Dichloroethane	10.000	9.010	9.9	100	0.00
19 TMP trans-1,2-Dichloroethene	10.000	9.371	6.3	100	-0.03
20 TMP Methylene chloride	10.000	9.358	6.4	100	0.00
21 TMP t-Butyl alcohol (TBA)	10.000	10.330	-3.3	100	0.00
22 TMP 3-Chloropropene	10.000	10.380	-3.8	100	0.00
23 TMP CFC-113	10.000	9.836	1.6	100	0.00
24 TMP Carbon disulfide	10.000	10.044	-0.4	100	-0.03
25 TMP Methyl t-butyl ether (MTBE)	10.000	10.225	-2.2	100	-0.03
26 TMP Vinyl acetate	10.000	10.937	-9.4	100	0.00
27 TMP 1,1-Dichloroethane	10.000	9.507	4.9	100	0.00
28 TMP cis-1,2-Dichloroethene	10.000	9.400	6.0	100	0.00
29 TMP Hexane	10.000	10.352	-3.5	100	0.00
30 TMP Chloroform	10.000	10.013	-0.1	100	-0.02
31 TMP Ethyl acetate	10.000	10.441	-4.4	100	0.00
32 TMP Tetrahydrofuran	10.000	11.012	-10.1	100	0.00
33 TMP 2-Butanone (MEK)	10.000	9.988	0.1	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	10.000	9.996	0.0	100	0.00
35 TMP 1,1,1-Trichloroethane	10.000	9.873	1.3	100	-0.01
36 TMP Carbon tetrachloride	10.000	9.777	2.2	100	0.00
37 TMP Benzene	10.000	10.048	-0.5	100	0.00
38 TMP Cyclohexane	10.000	9.988	0.1	100	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	-0.02
40 TMP 1,2-Dichloropropane	10.000	9.142	8.6	100	0.00
41 TMP 1,4-Dioxane	10.000	9.410	5.9	100	-0.02
42 TMP 2,2,4-Trimethylpentane	10.000	9.938	0.6	100	-0.03
43 TMP Methyl methacrylate	10.000	9.981	0.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	10.000	10.222	-2.2	100	-0.02
45 TMP Bromodichloromethane	10.000	9.715	2.9	100	0.00
46 TMP Trichloroethene	10.000	8.664	13.4	100	-0.02
47 TMP cis-1,3-Dichloropropene	10.000	10.304	-3.0	100	0.00
48 TMP 4-Methyl-2-pentanone	10.000	10.643	-6.4	100	0.00
49 TMP trans-1,3-Dichloropropene	10.000	10.302	-3.0	100	0.00
50 TMP Toluene	10.000	9.558	4.4	100	0.00
51 TMP 1,1,2-Trichloroethane	10.000	9.943	0.6	100	0.00
52 TMP 2-Hexanone	10.000	10.570	-5.7	100	0.00
53 TMP Tetrachloroethene	10.000	9.054	9.5	100	0.00
54 TMP Dibromochloromethane	10.000	9.730	2.7	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	10.000	9.896	1.0	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	10.000	9.357	6.4	100	0.00
58 TMP Ethylbenzene	10.000	9.898	1.0	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	10.000	9.870	1.3	100	-0.02
60 TMP Nonane	10.000	11.029	-10.3	100	0.00
61 TMP Isopropylbenzene	10.000	10.164	-1.6	100	0.00
62 TMP 2-Chlorotoluene	10.000	10.086	-0.9	100	0.00
63 TMP Propylbenzene	10.000	10.845	-8.5	100	-0.01
64 TMP 4-Ethyltoluene	10.000	10.851	-8.5	100	0.00
65 TMP m,p-Xylene	20.000	19.964	0.2	100	0.00
66 TMP o-Xylene	10.000	9.937	0.6	100	0.00
67 TMP Styrene	10.000	11.109	-11.1	100	0.00
68 TMP Bromoform	10.000	9.659	3.4	100	0.00
69 S 4-Bromofluorobenzene	10.000	10.730	-7.3	100	0.00
70 TMP Benzyl chloride	10.000	10.225	-2.2	101	0.00
71 TMP 1,3,5-Trimethylbenzene	10.000	10.828	-8.3	100	0.00
72 TMP 1,2,4-Trimethylbenzene	10.000	10.011	-0.1	100	0.00
73 TMP 1,3-Dichlorobenzene	10.000	10.542	-5.4	100	0.00
74 TMP 1,4-Dichlorobenzene	10.000	10.679	-6.8	100	0.00
75 TMP 1,2-Dichlorobenzene	10.000	10.351	-3.5	100	0.00
76 TMP 1,2,4-Trichlorobenzene	10.000	10.392	-3.9	100	0.00
77 TMP Naphthalene	10.000	10.305	-3.0	100	0.00
78 TMP Hexachlorobutadiene	10.000	9.551	4.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Oev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP Propene	1.556	1.354	13.0	100	0.00
3 TMP Dichlorodifluoromethane	4.123	4.125	-0.0	100	0.00
4 TMP Chloromethane	1.882	1.743	7.4	100	0.00
5 TMP F-114	4.217	3.971	5.8	102	-0.04
6 TMP Vinyl chloride	1.851	1.721	7.0	100	0.00
7 TMP 1,3-Butadiene	1.216	1.160	4.6	100	-0.04
8 TMP Butane	2.183	2.196	-0.6	100	0.00
9 TMP Bromomethane	1.847	1.713	7.3	100	0.00
10 TMP Chloroethane	0.655	0.650	0.8	101	0.00
11 TMP Vinyl bromide	1.609	1.562	2.9	100	-0.02
12 TMP Ethanol	0.663	0.558	15.8	100	-0.04
13 TMP Acrolein	0.729	0.660	9.5	100	-0.02
14 TMP Pentane	2.461	2.440	0.9	100	0.00
15 TMP Trichlorofluoromethane	4.781	4.585	4.1	99	-0.02
16 TMP Acetone	0.710	0.633	10.8	100	-0.04
17 TMP 2-Propanol	3.096	3.159	-2.0	99	0.00
18 TMP 1,1-Dichloroethane	1.645	1.482	9.9	100	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.497	6.3	100	-0.03
20 TMP Methylene chloride	1.479	1.384	6.4	100	0.00
21 TMP t-Butyl alcohol (T8A)	2.668	2.756	-3.3	100	0.00
22 TMP 3-Chloropropene	2.056	2.134	-3.8	100	0.00
23 TMP CFC-113	3.469	3.412	1.6	100	0.00
24 TMP Carbon disulfide	5.167	5.190	-0.4	100	-0.03
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.511	-2.2	100	-0.03
26 TMP Vinyl acetate	3.801	4.157	-9.4	100	0.00
27 TMP 1,1-Dichloroethane	3.342	3.178	4.9	100	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.589	6.0	100	0.00
29 TMP Hexane	2.068	2.141	-3.5	100	0.00
30 TMP Chloroform	4.060	3.655	10.0	100	-0.02
31 TMP Ethyl acetate	3.789	3.956	-4.4	100	0.00
32 TMP Tetrahydrofuran	1.809	1.993	-10.2	100	0.00
33 TMP 2-Butanone (MEK)	0.619	0.618	0.2	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.461	8.4	100	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.301	1.3	100	-0.01
36 TMP Carbon tetrachloride	3.523	3.444	2.2	100	0.00
37 TMP Benzene	5.688	5.043	11.3	100	0.00
38 TMP Cyclohexane	1.367	1.365	0.1	100	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	100	-0.02
40 TMP 1,2-Dichloropropane	0.541	0.495	8.5	100	0.00
41 TMP 1,4-Dioxane	0.230	0.217	5.7	100	-0.02
42 TMP 2,2,4-Trimethylpentane	1.598	1.588	0.6	100	-0.03
43 TMP Methyl methacrylate	0.485	0.484	0.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111527.D  
 Acq On : 16 Nov 2022 10:46 am  
 Operator : bat  
 Sample : 10 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 27 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:14:51 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.678	-2.3	100	-0.02
45 TMP Bromodichloromethane	0.850	0.825	2.9	100	0.00
46 TMP Trichloroethene	0.593	0.514	13.3	100	-0.02
47 TMP cis-1,3-Dichloropropene	0.599	0.617	-3.0	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.047	-6.8	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.580	-3.0	100	0.00
50 TMP Toluene	0.707	0.676	4.4	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.479	12.9	100	0.00
52 TMP 2-Hexanone	0.846	0.894	-5.7	100	0.00
53 TMP Tetrachloroethene	0.490	0.443	9.6	100	0.00
54 TMP Dibromochloromethane	0.861	0.838	2.7	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.710	13.8	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.030	6.4	100	0.00
58 TMP Ethylbenzene	1.968	1.723	12.4	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.229	11.8	100	-0.02
60 TMP Nonane	0.981	1.082	-10.3	100	0.00
61 TMP Isopropylbenzene	1.792	1.821	-1.6	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.452	-0.9	100	0.00
63 TMP Propylbenzene	3.292	3.570	-8.4	100	-0.01
64 TMP 4-Ethyltoluene	1.611	1.748	-8.5	100	0.00
65 TMP m,p-Xylene	0.633	0.632	0.2	100	0.00
66 TMP o-Xylene	0.615	0.611	0.7	100	0.00
67 TMP Styrene	0.819	0.910	-11.1	100	0.00
68 TMP Bromoform	1.028	0.993	3.4	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.744	-7.4	100	0.00
70 TMP Benzyl chloride	0.987	1.298	-31.5#	101	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.570	-8.3	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.492	-19.6	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.067	-5.4	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.011	-6.8	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.060	-3.5	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.888	-41.9#	100	0.00
77 TMP Naphthalene	1.132	1.571	-38.8#	100	0.00
78 TMP Hexachlorobutadiene	1.045	0.998	4.5	100	0.00

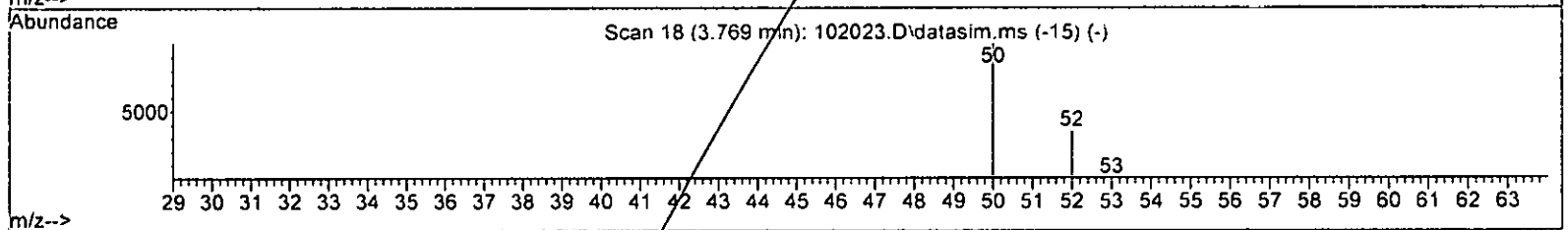
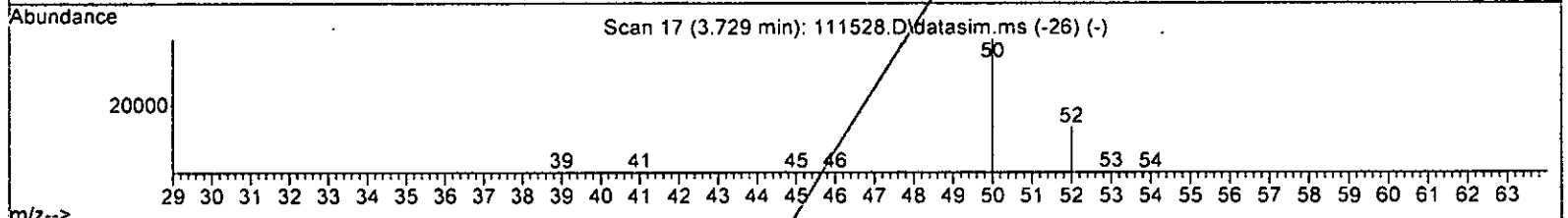
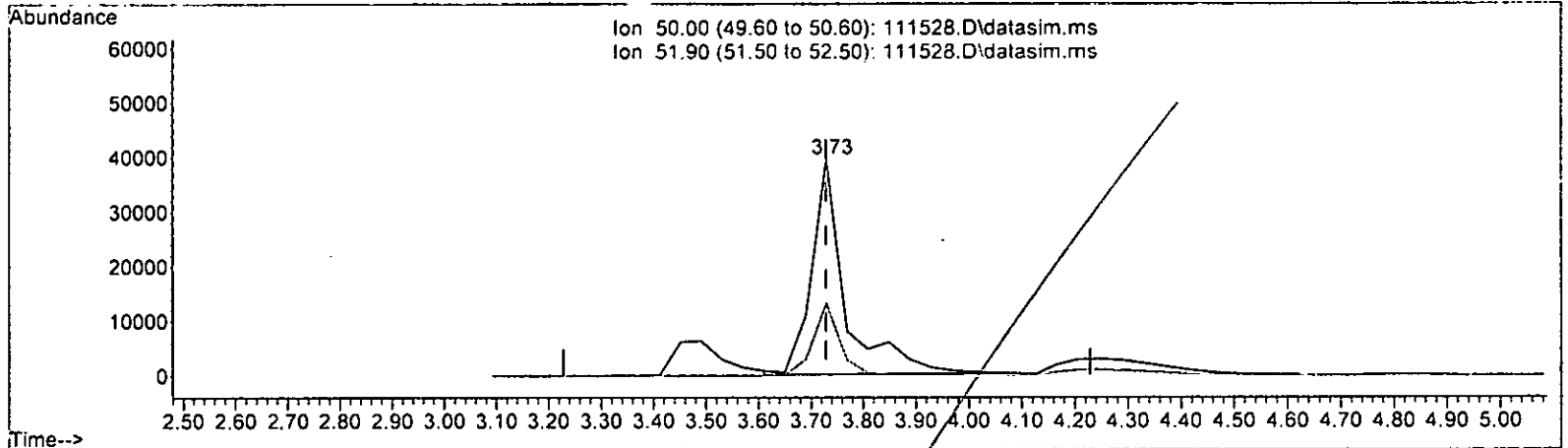
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111528.D\data.ms

(4) Chloromethane (TMP)		
3.729min (+ 0.000)	15.822 ppbv	
response	175722	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	33.72
0.00	0.00	0.00
0.00	0.00	0.00

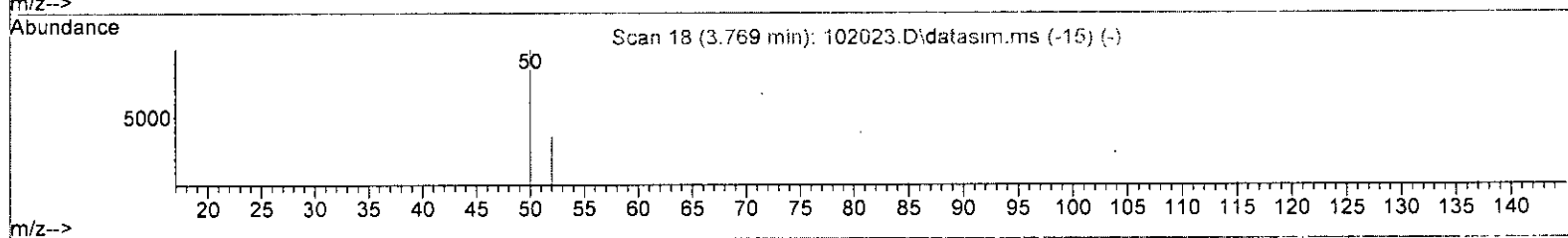
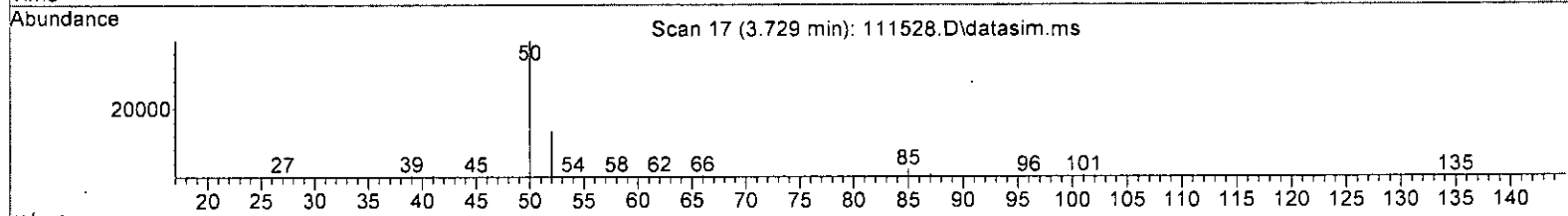
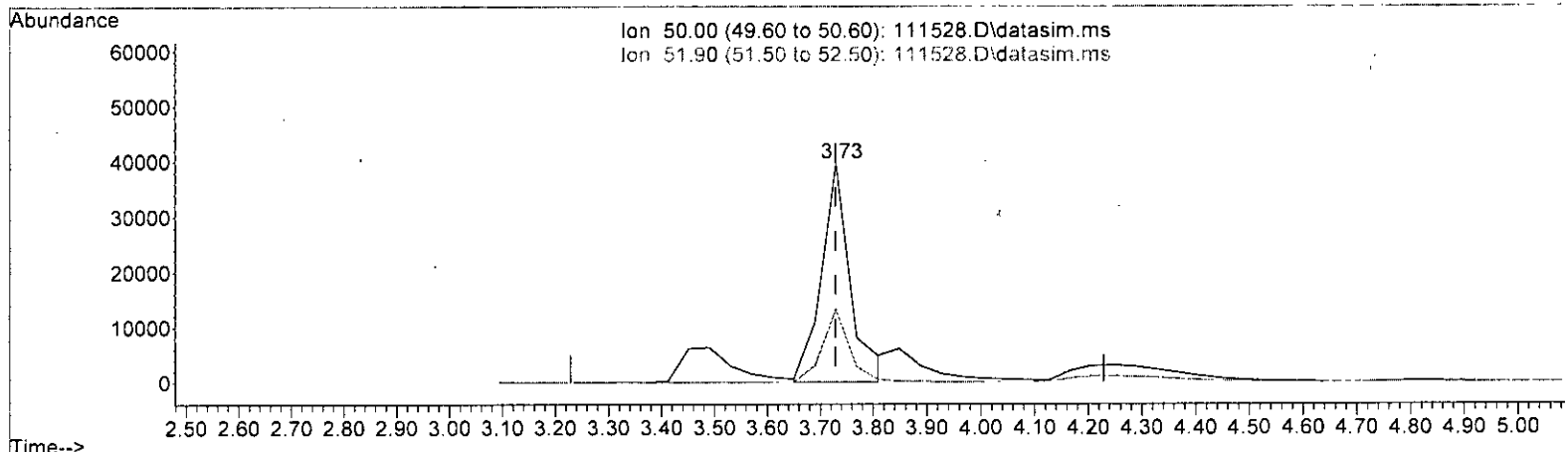
*Handwritten signature*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111528.D\data.ms

(4) Chloromethane (TMP)			
3.729min (+ 0.000)	13.595 ppbv m		
response	150990		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	33.53	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature: V. Alish*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	58999	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.12	114	278765	10.000	ppbv	-0.02
56) Chlorobenzene-d5	18.13	117	247324	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	193296	11.278	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	112.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	119081	14.708	ppbv	97
3) Dichlorodifluoromethane	3.49	85	359082	14.763	ppbv	99
4] Chloromethane	3.73	50	150990m	13.595	ppbv	
5) F-114	3.84	85	351475	14.127	ppbv	99
6] Vinyl chloride	4.05	62	148970	13.644	ppbv	99
7] 1,3-Butadiene	4.25	54	102296	14.259	ppbv #	96
8) Butane	4.32	43	191657	14.882	ppbv	99
9) Bromomethane	4.60	94	146095	13.406	ppbv	97
10] Chloroethane	4.84	64	55733	14.433	ppbv	98
11] Vinyl bromide	5.30	106	149440	15.739	ppbv	99
12) Ethanol	4.92	45	58514	14.955	ppbv	100
13] Acrolein	5.40	56	58433	13.588	ppbv	99
14) Pentane	6.25	43	206303	14.211	ppbv	99
15) Trichlorofluoromethane	5.82	101	397811	14.102	ppbv	100
16) Acetone	5.53	58	54612	13.029	ppbv	92
17) 2-Propanol	5.78	45	269801	14.771	ppbv	100
18] 1,1-Dichloroethene	6.63	96	127304	13.115	ppbv	97
19] trans-1,2-Dichloroethene	8.07	96	128944	13.678	ppbv	94
20) Methylene chloride	6.80	84	120892	13.856	ppbv	95
21) t-Butyl alcohol (TBA)	6.57	59	244526	15.535	ppbv #	79
22) 3-Chloropropene	6.94	41	188878	15.570	ppbv	98
23) CFC-113	7.15	101	289544	14.145	ppbv	98
24) Carbon disulfide	7.25	76	453954	14.892	ppbv	98
25) Methyl t-butyl ether (...)	8.41	73	300742	14.845	ppbv	98
26) Vinyl acetate	8.54	43	368654	16.439	ppbv	99
27] 1,1-Dichloroethane	8.36	63	272963	13.842	ppbv	100
28] cis-1,2-Dichloroethene	9.62	96	136919	13.732	ppbv	86
29) Hexane	9.99	57	190651	15.625	ppbv	96
30] Chloroform	10.08	83	311416	14.974	ppbv	98
31) Ethyl acetate	9.92	43	349665	15.643	ppbv	99
32) Tetrahydrofuran	10.73	42	175763	16.464	ppbv	92
33) 2-Butanone (MEK)	8.88	72	54432	14.907	ppbv #	89
34] 1,2-Dichloroethane (EDC)	11.34	62	211556	14.954	ppbv	99
35] 1,1,1-Trichloroethane	11.81	97	282594	14.326	ppbv	98
36] Carbon tetrachloride	12.86	117	295682	14.227	ppbv	96
37] Benzene	12.61	78	434213	14.934	ppbv	94
38) Cyclohexane	13.07	84	118410	14.682	ppbv	98
40] 1,2-Dichloropropane	13.80	63	201812	13.371	ppbv	98

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

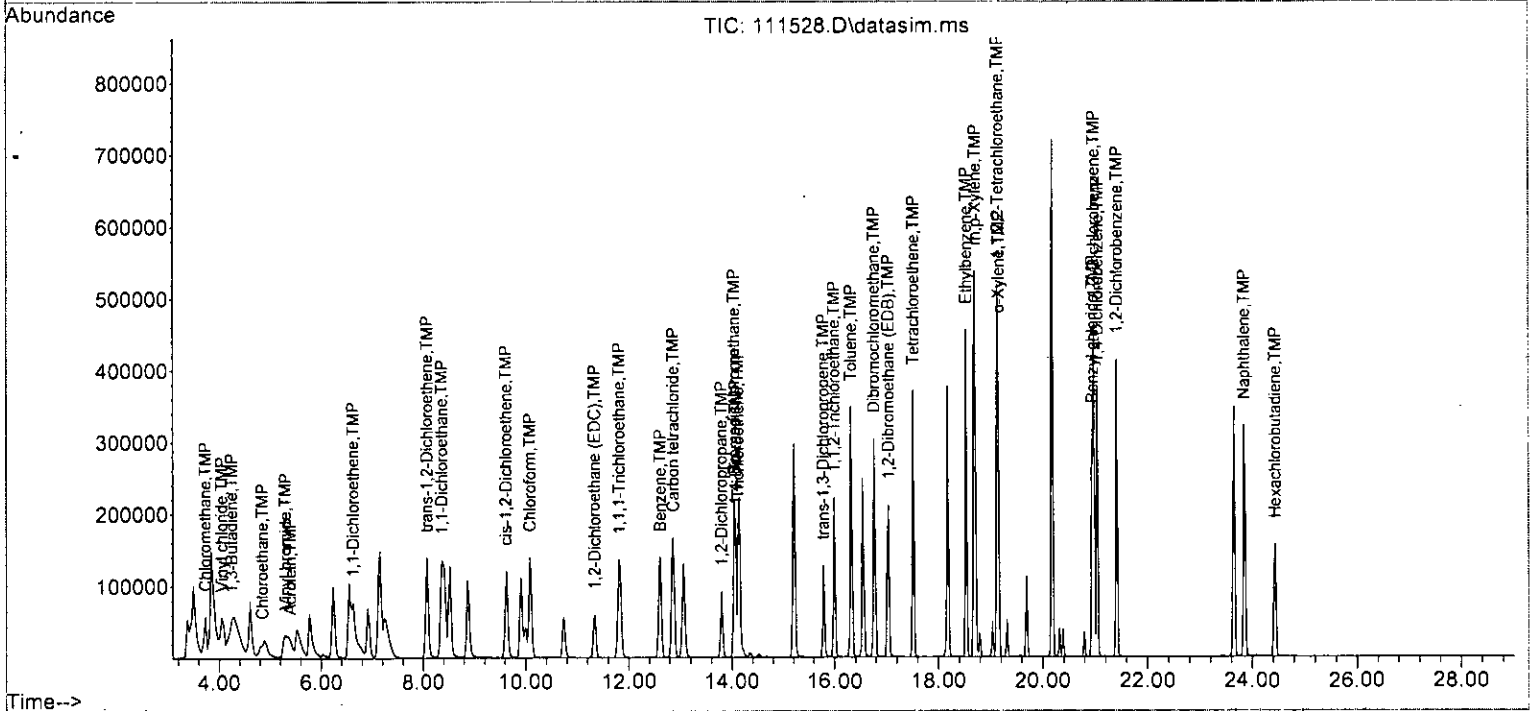
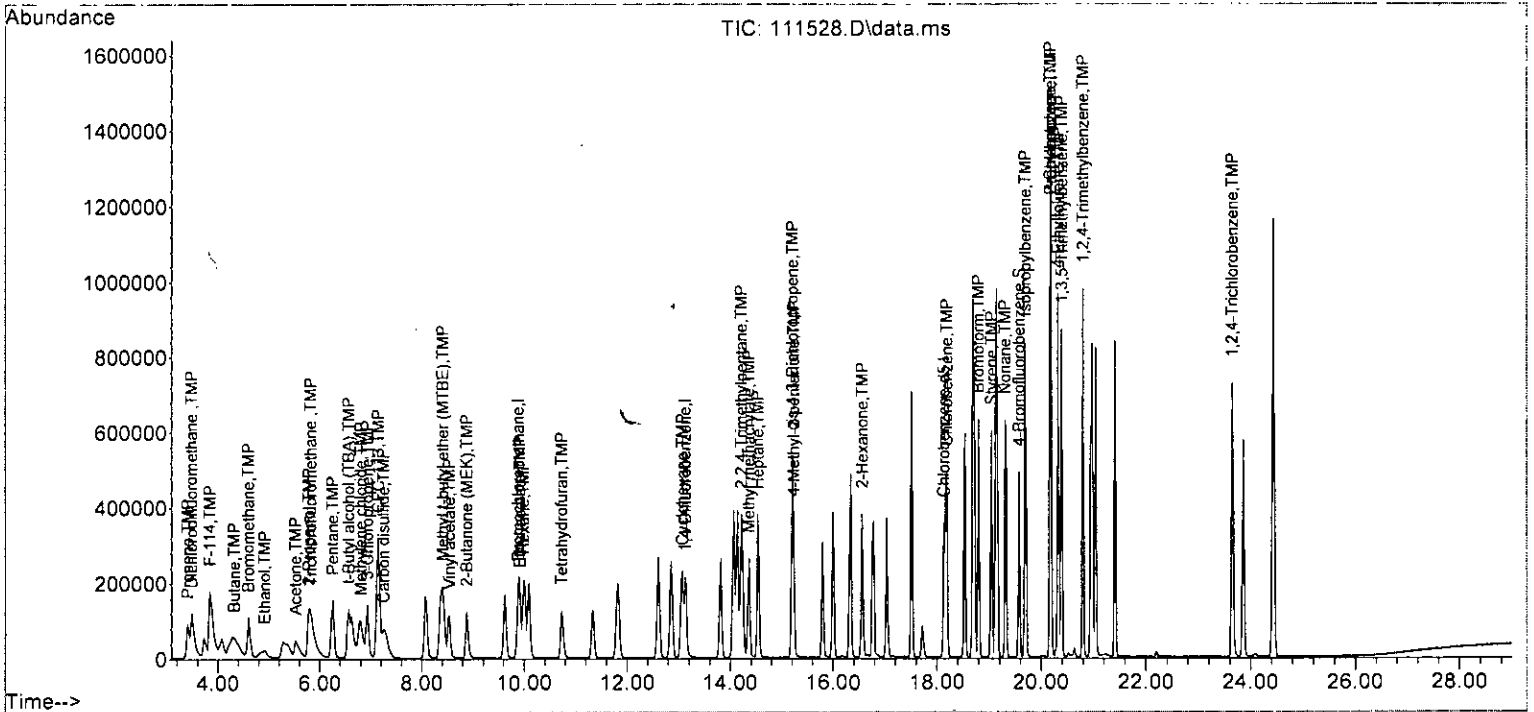
Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.07	88	89988	14.019	ppbv	96
42) 2,2,4-Trimethylpentane	14.21	57	656524	14.734	ppbv	97
43) Methyl methacrylate	14.36	41	203939	15.076	ppbv	100
44) Heptane	14.53	43	282353	15.267	ppbv	99
45] Bromodichloromethane	14.04	83	332802	14.052	ppbv	97
46] Trichloroethene	14.12	95	209252	12.656	ppbv	78
47) cis-1,3-Dichloropropene	15.20	75	252568	15.133	ppbv	98
48) 4-Methyl-2-pentanone	15.23	100	18663	15.128	ppbv #	94
49] trans-1,3-Dichloropropene	15.78	75	241740	15.399	ppbv	85
50] Toluene	16.31	92	277732	14.091	ppbv	90
51] 1,1,2-Trichloroethane	16.00	83	192766	15.049	ppbv	87
52) 2-Hexanone	16.56	43	365792	15.506	ppbv	97
53] Tetrachloroethene	17.52	164	178050	13.040	ppbv	95
54] Dibromochloromethane	16.76	129	341786	14.243	ppbv	99
55] 1,2-Dibromoethane (EDB)	17.04	107	287988	15.020	ppbv	98
57) Chlorobenzene	18.19	112	374572	13.758	ppbv	99
58] Ethylbenzene	18.53	91	636030	15.041	ppbv	95
59] 1,1,2,2-Tetrachloroethane	19.13	83	443331	15.117	ppbv	91
60) Nonane	19.30	43	405196	16.706	ppbv	99
61) Isopropylbenzene	19.70	105	665976	15.027	ppbv	100
62) 2-Chlorotoluene	20.17	126	166677	15.042	ppbv	94
63) Propylbenzene	20.17	91	1313928	16.138	ppbv	99
64) 4-Ethyltoluene	20.32	105	657585	16.501	ppbv	100
65] m,p-Xylene	18.70	106	467929	29.877	ppbv	93
66] o-Xylene	19.15	106	224701	14.777	ppbv	96
67) Styrene	19.05	104	342860	16.927	ppbv	97
68) Bromoform	18.80	173	367235	14.438	ppbv	100
70] Benzyl chloride	20.95	91	494550	14.939	ppbv	99
71) 1,3,5-Trimethylbenzene	20.39	105	583256	16.264	ppbv	99
72) 1,2,4-Trimethylbenzene	20.80	105	579681	14.930	ppbv	100
73] 1,3-Dichlorobenzene	20.98	146	394442	15.761	ppbv	97
74] 1,4-Dichlorobenzene	21.05	146	379907	16.223	ppbv	97
75] 1,2-Dichlorobenzene	21.41	146	393119	15.518	ppbv	92
76) 1,2,4-Trichlorobenzene	23.64	180	352765	14.658	ppbv	99
77] Naphthalene	23.84	128	680136	14.479	ppbv	99
78] Hexachlorobutadiene	24.44	225	370230	14.331	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 5S method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	100	0.00
2 TMP Propene	15.000	14.708	1.9	100	0.00
3 TMP Dichlorodifluoromethane	15.000	14.763	1.6	100	0.00
4 TMP Chloromethane	15.000	13.595	9.4	100	0.00
5 TMP F-114	15.000	14.127	5.8	103	-0.04
6 TMP Vinyl chloride	15.000	13.644	9.0	100	-0.04
7 TMP 1,3-Butadiene	15.000	14.259	4.9	100	-0.04
8 TMP Butane	15.000	14.882	0.8	101	0.00
9 TMP Bromomethane	15.000	13.406	10.6	100	0.00
10 TMP Chloroethane	15.000	14.433	3.8	101	0.00
11 TMP Vinyl bromide	15.000	15.739	-4.9	110	-0.02
12 TMP Ethanol	15.000	14.955	0.3	100	-0.04
13 TMP Acrolein	15.000	13.588	9.4	100	-0.02
14 TMP Pentane	15.000	14.211	5.3	100	0.00
15 TMP Trichlorofluoromethane	15.000	14.102	6.0	99	-0.02
16 TMP Acetone	15.000	13.029	13.1	100	-0.04
17 TMP 2-Propanol	15.000	14.771	1.5	98	0.00
18 TMP 1,1-Dichloroethene	15.000	13.115	12.6	100	0.00
19 TMP trans-1,2-Dichloroethene	15.000	13.678	8.8	100	-0.03
20 TMP Methylene chloride	15.000	13.856	7.6	100	0.00
21 TMP t-Butyl alcohol (TBA)	15.000	15.535	-3.6	100	0.00
22 TMP 3-Chloropropene	15.000	15.570	-3.8	100	0.00
23 TMP CFC-113	15.000	14.145	5.7	100	0.00
24 TMP Carbon disulfide	15.000	14.892	0.7	100	-0.03
25 TMP Methyl t-butyl ether (MTBE)	15.000	14.845	1.0	100	-0.03
26 TMP Vinyl acetate	15.000	16.439	-9.6	100	0.00
27 TMP 1,1-Dichloroethane	15.000	13.842	7.7	100	0.00
28 TMP cis-1,2-Dichloroethene	15.000	13.732	8.5	100	-0.02
29 TMP Hexane	15.000	15.625	-4.2	100	-0.02
30 TMP Chloroform	15.000	14.974	0.2	100	-0.02
31 TMP Ethyl acetate	15.000	15.643	-4.3	100	0.00
32 TMP Tetrahydrofuran	15.000	16.464	-9.8	100	-0.02
33 TMP 2-Butanone (MEK)	15.000	14.907	0.6	100	-0.03
34 TMP 1,2-Dichloroethane (EDC)	15.000	14.954	0.3	100	0.00
35 TMP 1,1,1-Trichloroethane	15.000	14.326	4.5	100	-0.01
36 TMP Carbon tetrachloride	15.000	14.227	5.2	100	0.00
37 TMP Benzene	15.000	14.934	0.4	100	0.00
38 TMP Cyclohexane	15.000	14.682	2.1	100	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	100	-0.02
40 TMP 1,2-Dichloropropane	15.000	13.371	10.9	100	0.00
41 TMP 1,4-Dioxane	15.000	14.019	6.5	100	-0.02
42 TMP 2,2,4-Trimethylpentane	15.000	14.734	1.8	100	-0.03
43 TMP Methyl methacrylate	15.000	15.076	-0.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	15.000	15.267	-1.8	100	-0.02
45 TMP Bromodichloromethane	15.000	14.052	6.3	100	0.00
46 TMP Trichloroethene	15.000	12.656	15.6	100	-0.02
47 TMP cis-1,3-Dichloropropene	15.000	15.133	-0.9	100	0.00
48 TMP 4-Methyl-2-pentanone	15.000	15.128	-0.9	100	0.00
49 TMP trans-1,3-Dichloropropene	15.000	15.399	-2.7	100	0.00
50 TMP Toluene	15.000	14.091	6.1	100	0.00
51 TMP 1,1,2-Trichloroethane	15.000	15.049	-0.3	100	0.00
52 TMP 2-Hexanone	15.000	15.506	-3.4	100	0.00
53 TMP Tetrachloroethene	15.000	13.040	13.1	100	0.00
54 TMP Dibromochloromethane	15.000	14.243	5.0	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	15.000	15.020	-0.1	100	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	100	0.00
57 TMP Chlorobenzene	15.000	13.758	8.3	100	0.00
58 TMP Ethylbenzene	15.000	15.041	-0.3	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	15.000	15.117	-0.8	100	0.00
60 TMP Nonane	15.000	16.706	-11.4	100	0.00
61 TMP Isopropylbenzene	15.000	15.027	-0.2	100	0.00
62 TMP 2-Chlorotoluene	15.000	15.042	-0.3	100	0.00
63 TMP Propylbenzene	15.000	16.138	-7.6	100	-0.01
64 TMP 4-Ethyltoluene	15.000	16.501	-10.0	100	0.00
65 TMP m,p-Xylene	30.000	29.877	0.4	100	0.00
66 TMP o-Xylene	15.000	14.777	1.5	100	0.00
67 TMP Styrene	15.000	16.927	-12.8	100	0.00
68 TMP Bromoform	15.000	14.438	3.7	100	0.00
69 S 4-Bromofluorobenzene	10.000	11.278	-12.8	100	0.00
70 TMP Benzyl chloride	15.000	14.939	0.4	102	0.00
71 TMP 1,3,5-Trimethylbenzene	15.000	16.264	-8.4	100	0.00
72 TMP 1,2,4-Trimethylbenzene	15.000	14.930	0.5	100	0.00
73 TMP 1,3-Dichlorobenzene	15.000	15.761	-5.1	100	0.00
74 TMP 1,4-Dichlorobenzene	15.000	16.223	-8.2	100	0.00
75 TMP 1,2-Dichlorobenzene	15.000	15.518	-3.5	100	0.00
76 TMP 1,2,4-Trichlorobenzene	15.000	14.658	2.3	100	0.00
77 TMP Naphthalene	15.000	14.479	3.5	100	0.00
78 TMP Hexachlorobutadiene	15.000	14.331	4.5	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

## Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 TMP	Propene	1.556	1.346	13.5	100	0.00
3 TMP	Dichlorodifluoromethane	4.123	4.057	1.6	100	0.00
4 TMP	Chloromethane	1.882	1.706	9.4	100	0.00
5 TMP	F-114	4.217	3.972	5.8	103	-0.04
6 TMP	Vinyl chloride	1.851	1.683	9.1	100	-0.04
7 TMP	1,3-Butadiene	1.216	1.156	4.9	100	-0.04
8 TMP	Butane	2.183	2.166	0.8	101	0.00
9 TMP	Bromomethane	1.847	1.651	10.6	100	0.00
10 TMP	Chloroethane	0.655	0.630	3.8	101	0.00
11 TMP	Vinyl bromide	1.609	1.689	-5.0	110	-0.02
12 TMP	Ethanol	0.663	0.661	0.3	100	-0.04
13 TMP	Acrolein	0.729	0.660	9.5	100	-0.02
14 TMP	Pentane	2.461	2.331	5.3	100	0.00
15 TMP	Trichlorofluoromethane	4.781	4.495	6.0	99	-0.02
16 TMP	Acetone	0.710	0.617	13.1	100	-0.04
17 TMP	2-Propanol	3.096	3.049	1.5	98	0.00
18 TMP	1,1-Dichloroethene	1.645	1.438	12.6	100	0.00
19 TMP	trans-1,2-Dichloroethene	1.598	1.457	8.8	100	-0.03
20 TMP	Methylene chloride	1.479	1.366	7.6	100	0.00
21 TMP	t-Butyl alcohol (TBA)	2.668	2.763	-3.6	100	0.00
22 TMP	3-Chloropropene	2.056	2.134	-3.8	100	0.00
23 TMP	CFC-113	3.469	3.272	5.7	100	0.00
24 TMP	Carbon disulfide	5.167	5.130	0.7	100	-0.03
25 TMP	Methyl t-butyl ether (MTBE)	3.434	3.398	1.0	100	-0.03
26 TMP	Vinyl acetate	3.801	4.166	-9.6	100	0.00
27 TMP	1,1-Dichloroethane	3.342	3.084	7.7	100	0.00
28 TMP	cis-1,2-Dichloroethene	1.690	1.547	8.5	100	-0.02
29 TMP	Hexane	2.068	2.154	-4.2	100	-0.02
30 TMP	Chloroform	4.060	3.519	13.3	100	-0.02
31 TMP	Ethyl acetate	3.789	3.951	-4.3	100	0.00
32 TMP	Tetrahydrofuran	1.809	1.986	-9.8	100	-0.02
33 TMP	2-Butanone (MEK)	0.619	0.615	0.6	100	-0.03
34 TMP	1,2-Dichloroethane (EDC)	2.687	2.391	11.0	100	0.00
35 TMP	1,1,1-Trichloroethane	3.343	3.193	4.5	100	-0.01
36 TMP	Carbon tetrachloride	3.523	3.341	5.2	100	0.00
37 TMP	Benzene	5.688	4.906	13.7	100	0.00
38 TMP	Cyclohexane	1.367	1.338	2.1	100	0.00
39 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	-0.02
40 TMP	1,2-Dichloropropane	0.541	0.483	10.7	100	0.00
41 TMP	1,4-Dioxane	0.230	0.215	6.5	100	-0.02
42 TMP	2,2,4-Trimethylpentane	1.598	1.570	1.8	100	-0.03
43 TMP	Methyl methacrylate	0.485	0.488	-0.6	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111528.D  
 Acq On : 16 Nov 2022 11:25 am  
 Operator : bat  
 Sample : 15 ppbv 67-196a  
 Misc : cal line, 25cc of 25ppbv  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:17:35 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TD-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.675	-1.8	100	-0.02
45 TMP Bromodichloromethane	0.850	0.796	6.4	100	0.00
46 TMP Trichloroethene	0.593	0.500	15.7	100	-0.02
47 TMP cis-1,3-Dichloropropene	0.599	0.604	-0.8	100	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.045	-2.3	100	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.578	-2.7	100	0.00
50 TMP Toluene	0.707	0.664	6.1	100	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.461	16.2	100	0.00
52 TMP 2-Hexanone	0.846	0.875	-3.4	100	0.00
53 TMP Tetrachloroethene	0.490	0.426	13.1	100	0.00
54 TMP Dibromochloromethane	0.861	0.817	5.1	100	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.689	16.4	100	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
57 TMP Chlorobenzene	1.101	1.010	8.3	100	0.00
58 TMP Ethylbenzene	1.968	1.714	12.9	100	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.195	14.3	100	0.00
60 TMP Nonane	0.981	1.092	-11.3	100	0.00
61 TMP Isopropylbenzene	1.792	1.795	-0.2	100	0.00
62 TMP 2-Chlorotoluene	0.448	0.449	-0.2	100	0.00
63 TMP Propylbenzene	3.292	3.542	-7.6	100	-0.01
64 TMP 4-Ethyltoluene	1.611	1.773	-10.1	100	0.00
65 TMP m,p-Xylene	0.633	0.631	0.3	100	0.00
66 TMP o-Xylene	0.615	0.606	1.5	100	0.00
67 TMP Styrene	0.819	0.924	-12.8	100	0.00
68 TMP Bromoform	1.028	0.990	3.7	100	0.00
69 S 4-Bromofluorobenzene	0.693	0.782	-12.8	100	0.00
70 TMP Benzyl chloride	0.987	1.333	-35.1#	102	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.572	-8.4	100	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.563	-25.3	100	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.063	-5.0	100	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.024	-8.1	100	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.060	-3.5	100	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.951	-51.9#	100	0.00
77 TMP Naphthalene	1.132	1.833	-61.9#	100	0.00
78 TMP Hexachlorobutadiene	1.045	0.998	4.5	100	0.00

(#) = Out of Range

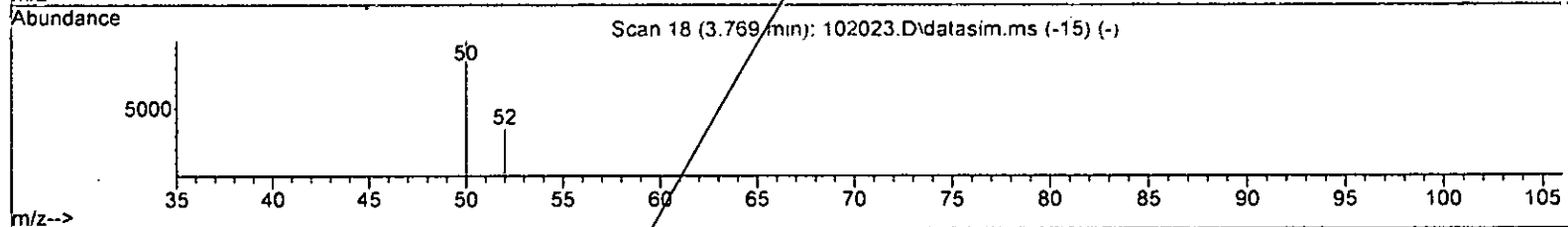
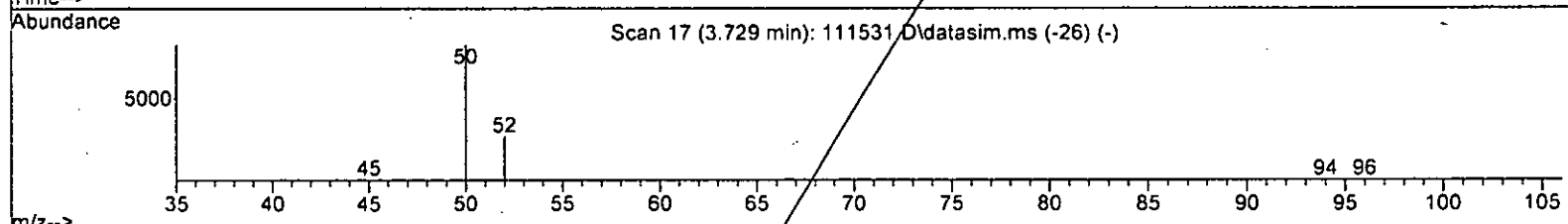
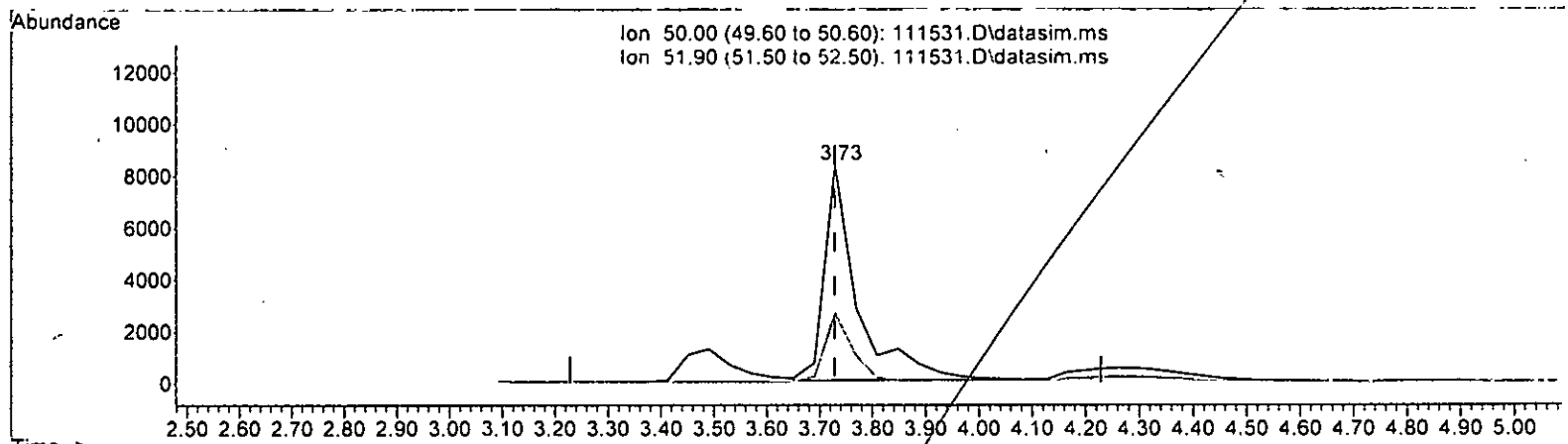
SPCC's out = 0 CCC's out = 0



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

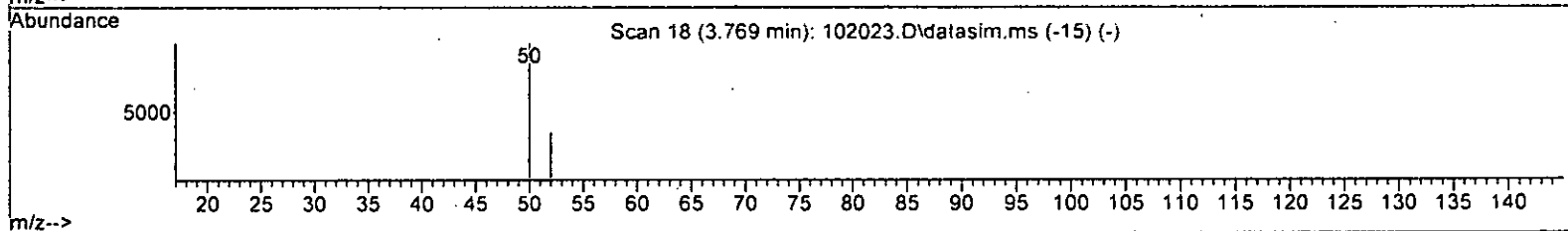
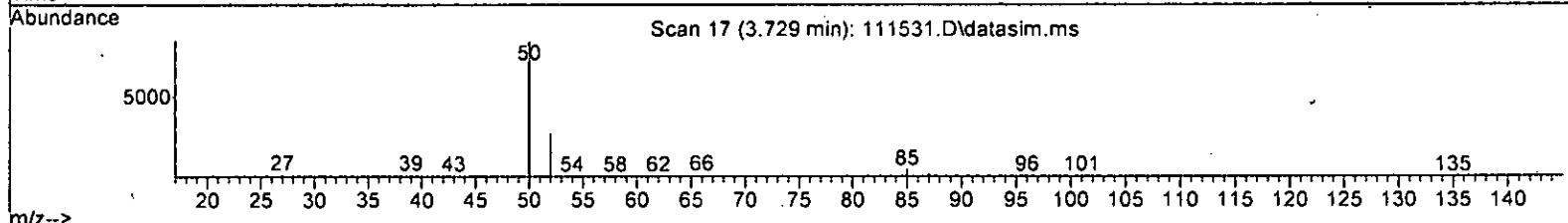
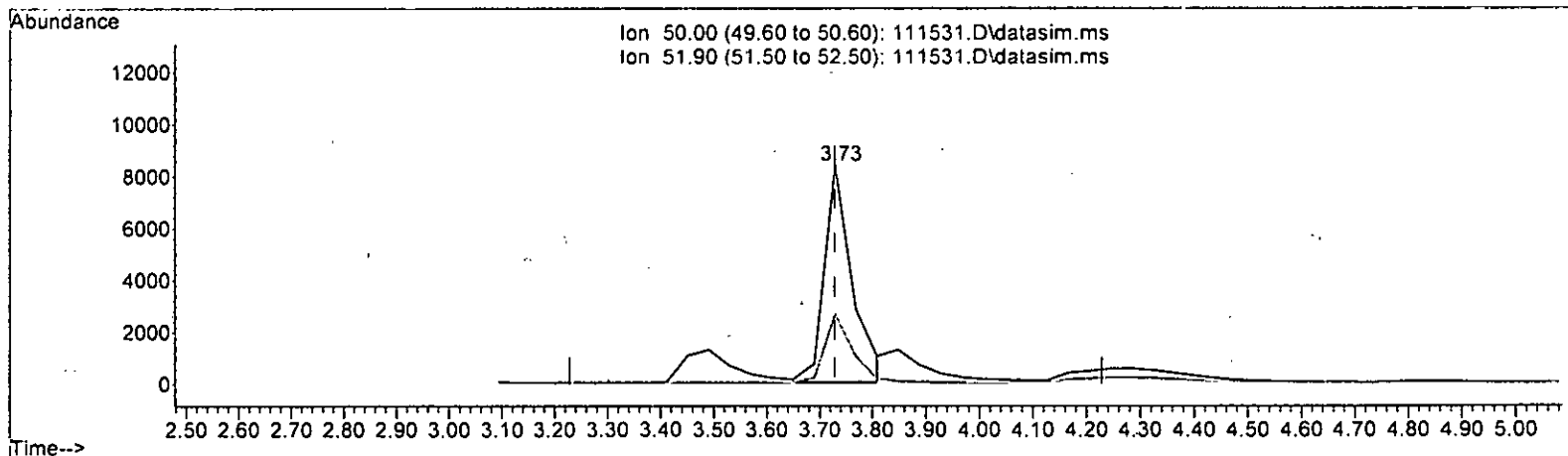
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	3.080 ppbv	
response	35937	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	31.87
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten: 6/1/12*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

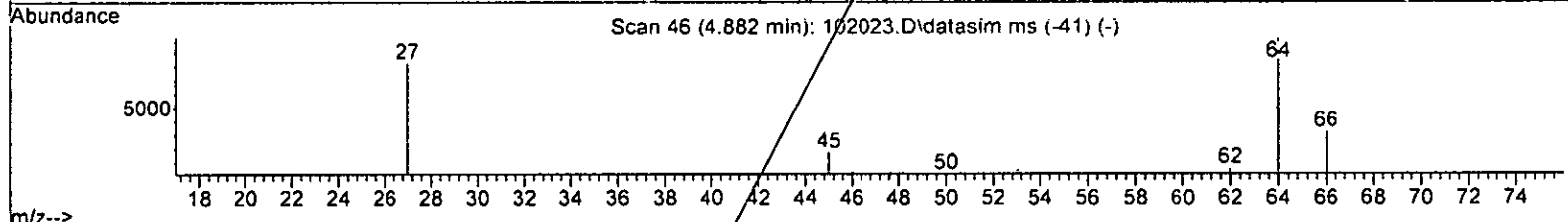
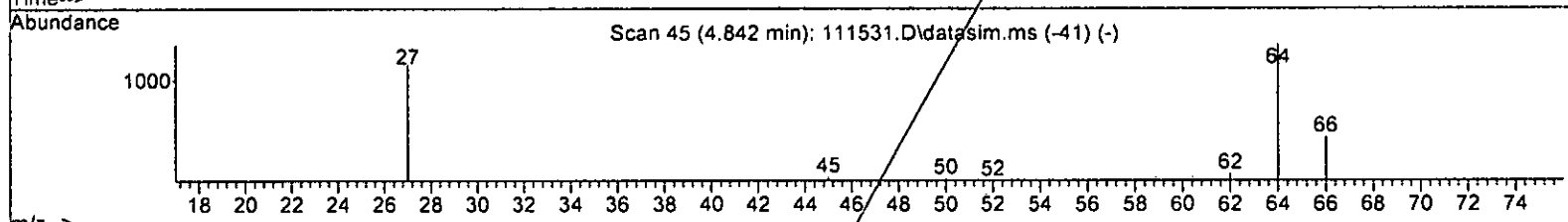
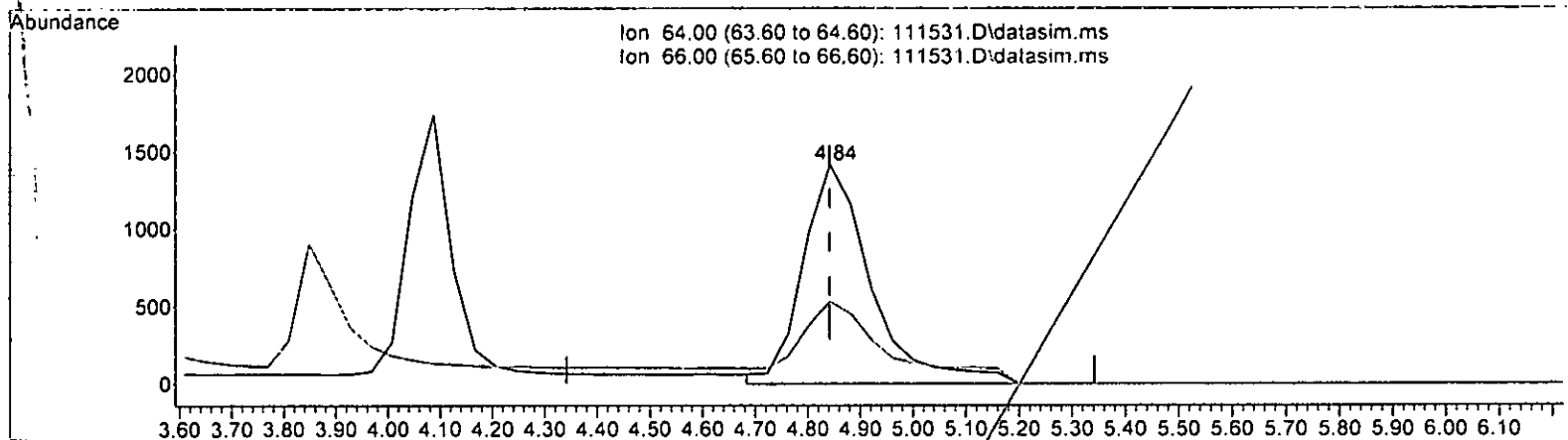
(4) Chloromethane (TMP)			
3.729min (+ 0.000)	2.642 ppbv m		
response	30819		
Ion	Exp%	Act%	
50.00	100.00	100.00	
51.90	25.30	32.16	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

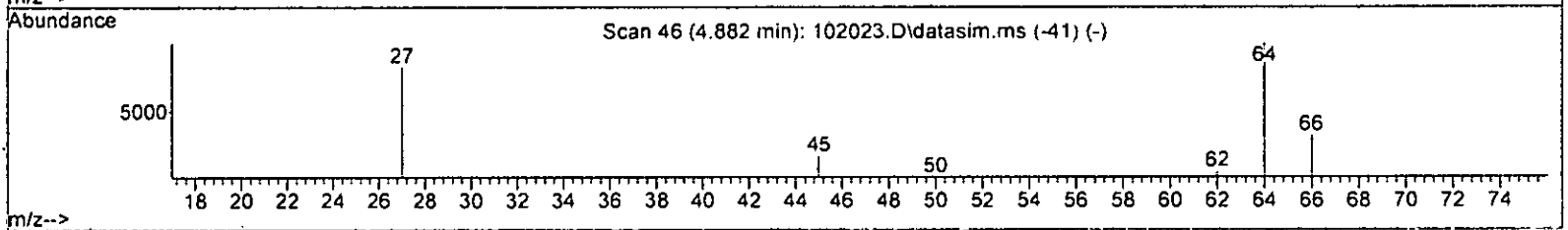
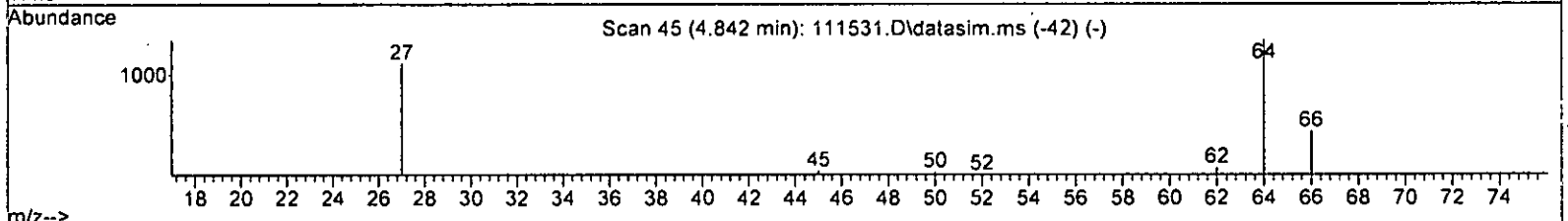
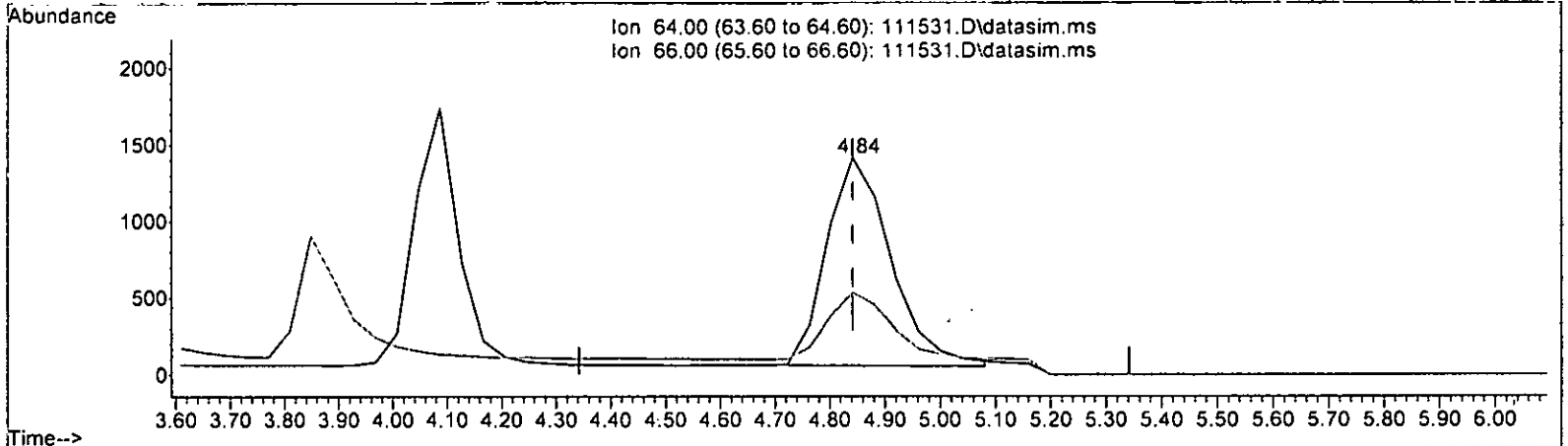
(10)	Chloroethane (TMP)	
4.842min (+ 0.000)	3.021 ppbv	
response	12254	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	37.79
0.00	0.00	0.00
0.00	0.00	0.00

*h / 11/18/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

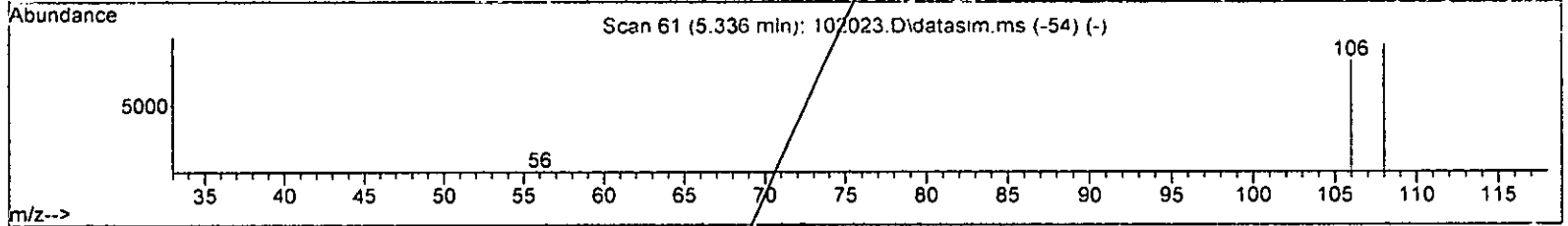
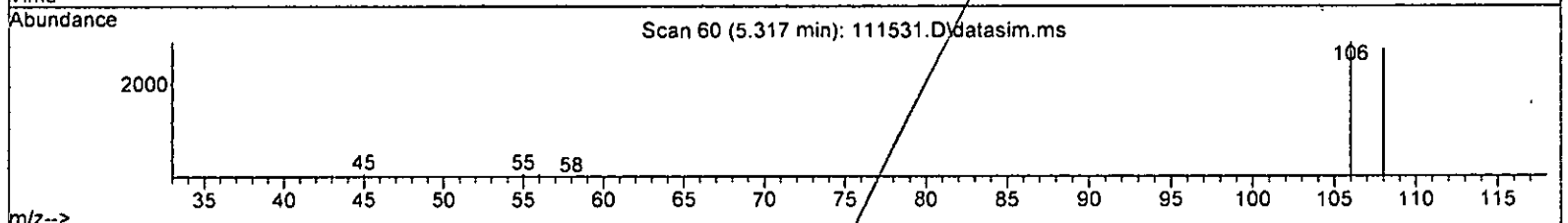
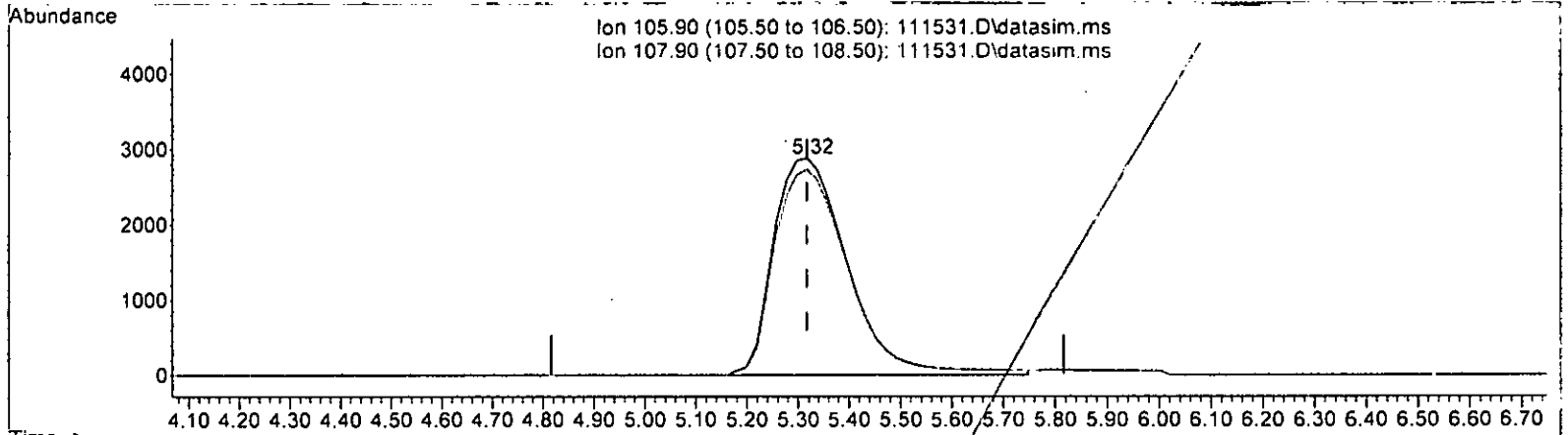
(10) Chloroethane (TMP)		
4.842min (+ 0.000)	2.703 ppbv m	
response	10966	
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	37.79
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

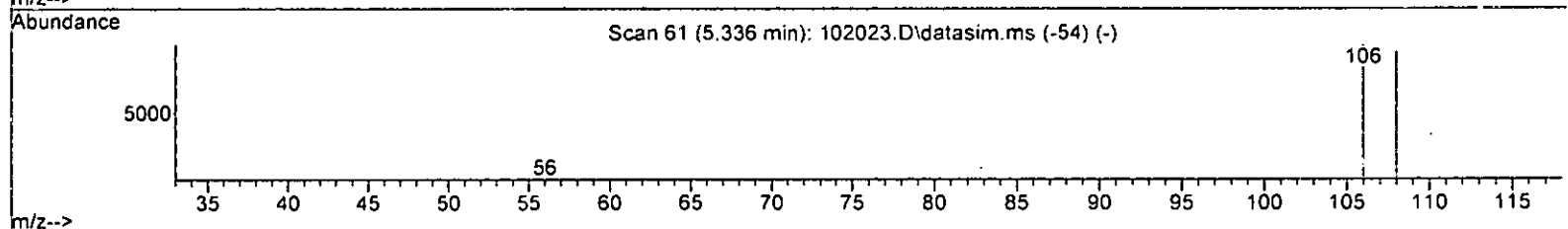
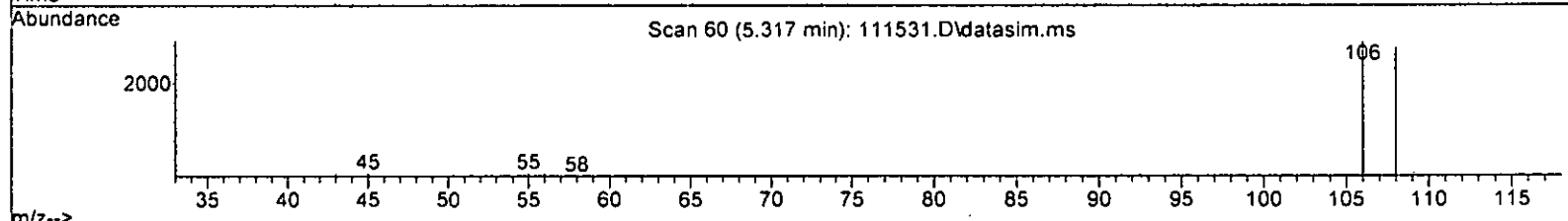
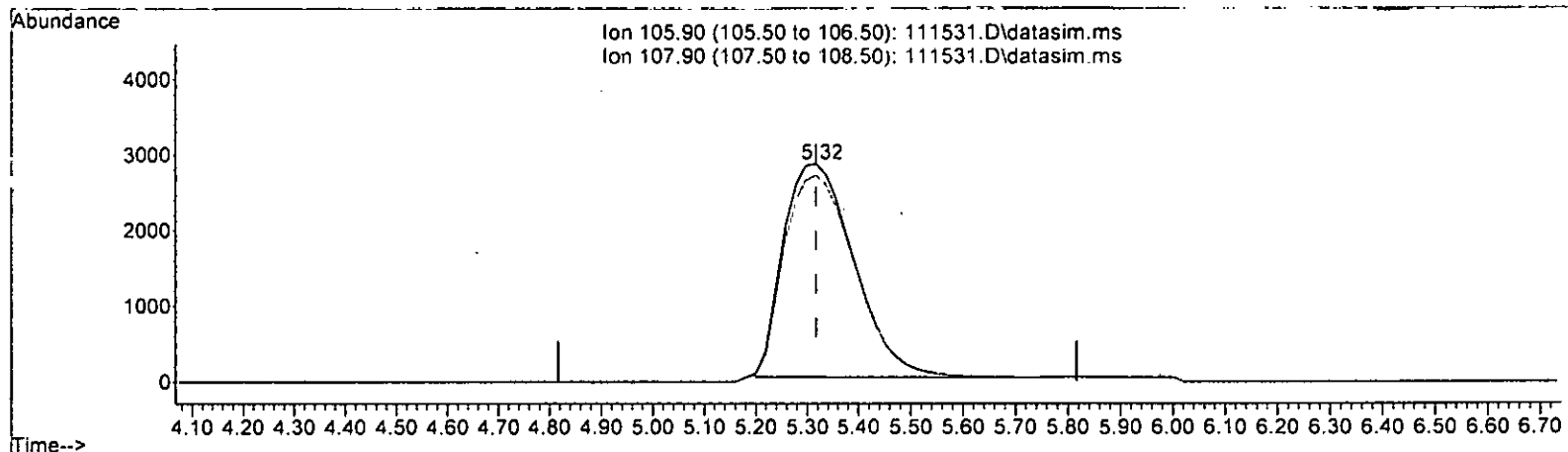
(11) Vinyl bromide (TMP)		
5.317min (+ 0.000)	3.103 ppbv	
response	30951	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	94.65
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115TD15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TD15DC.M



TIC: 111531.D\data.ms

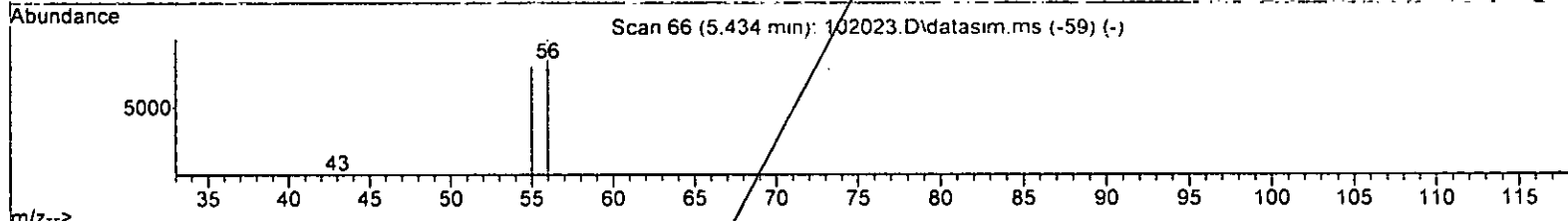
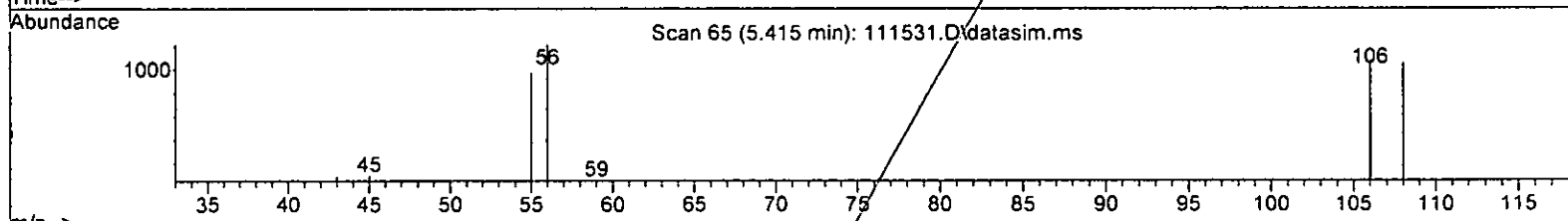
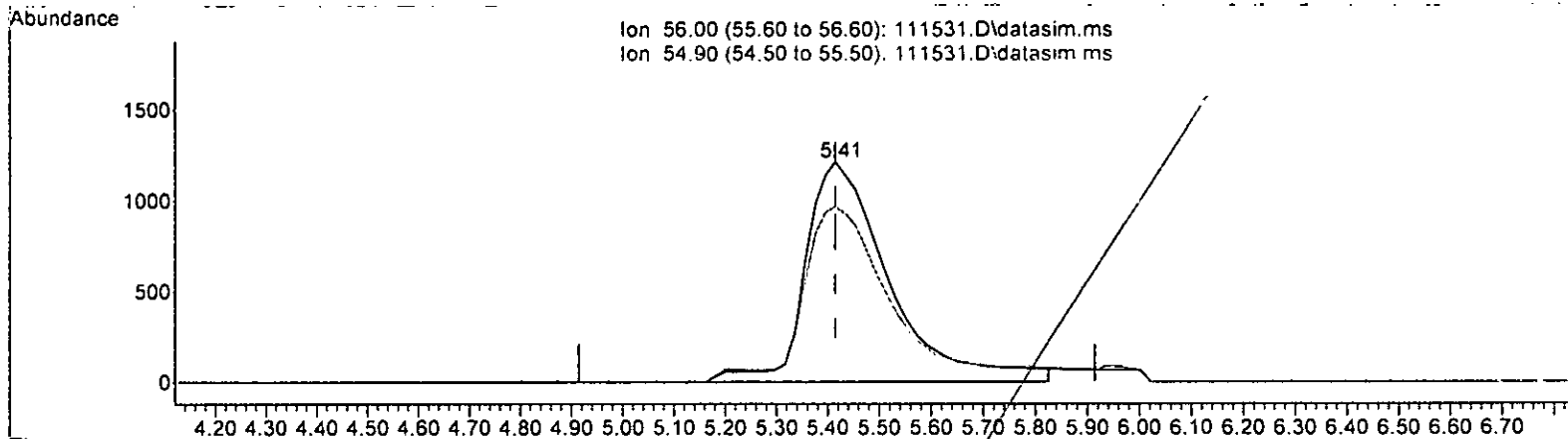
(11) Vinyl bromide (TMP)		
5.317min (+ 0.000) 2.701 ppbv m		
response	26943	
Ion	Exp%	Act%
105.90	100.00	100.00
107.90	94.10	108.73
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111531.D\data.ms

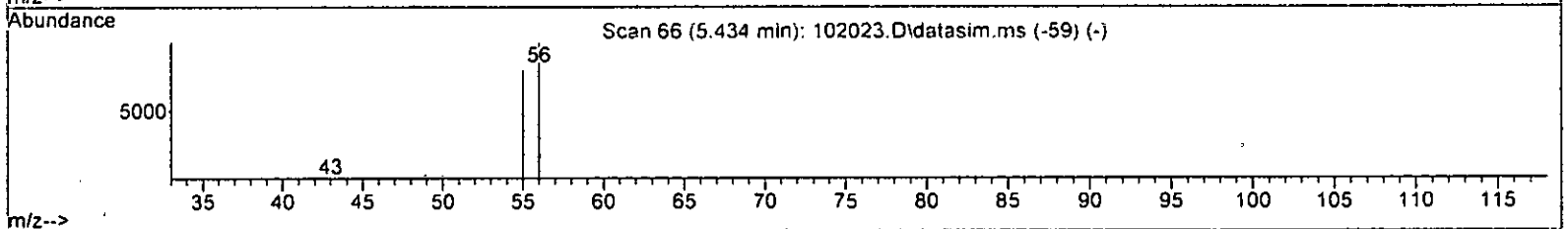
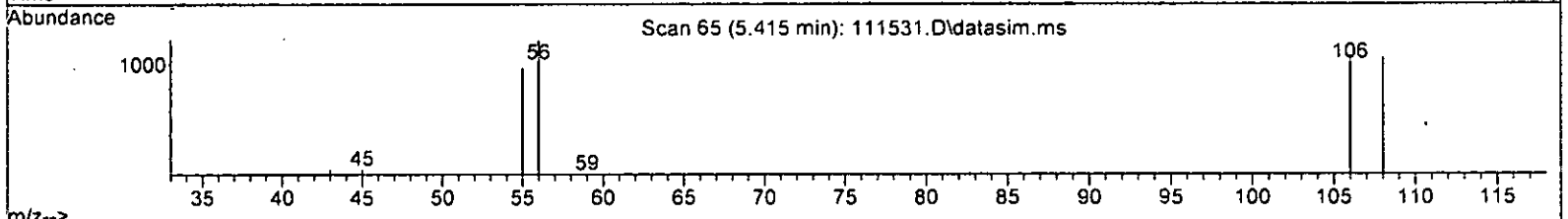
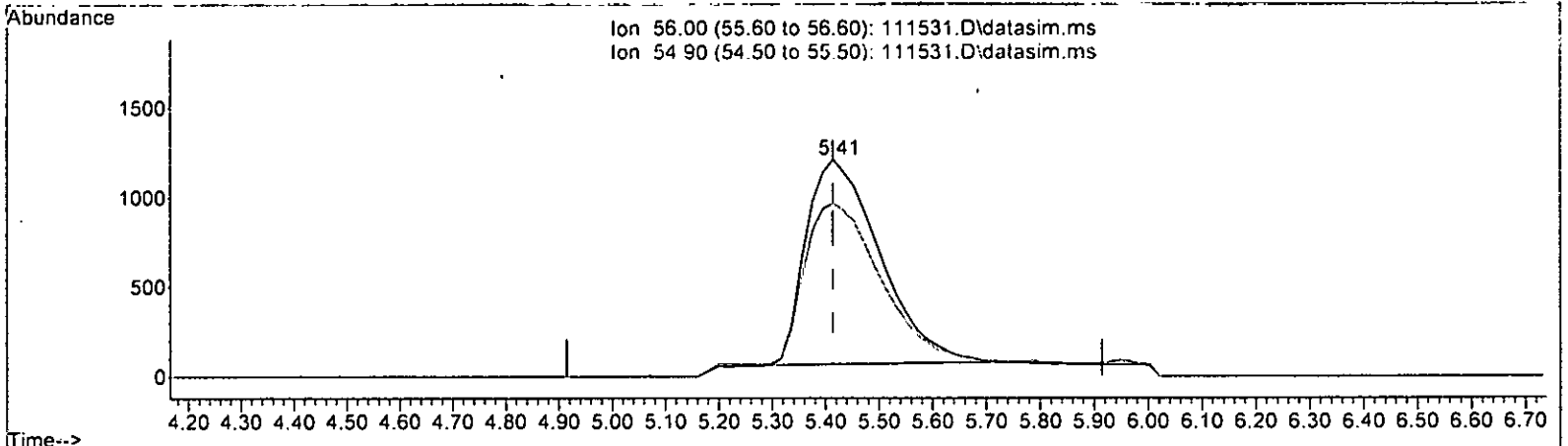
(13) Acrolein (TMP)		
5.415min (-0.000)	3.208 ppbv	
response	14492	
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	67.38
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

(13) Acrolein (TMP)		
response	Exp%	Act%
5.415min (-0.000) 2.428 ppbv m		
10966		
56.00	100.00	100.00
54.90	81.00	89.05
0.00	0.00	0.00
0.00	0.00	0.00

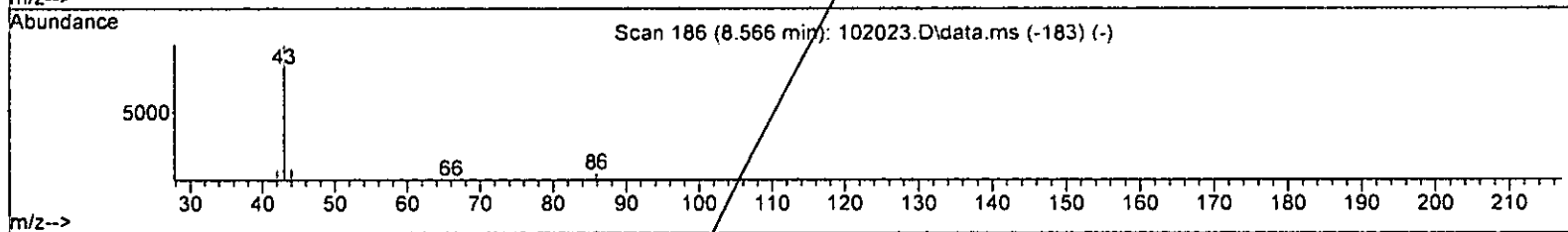
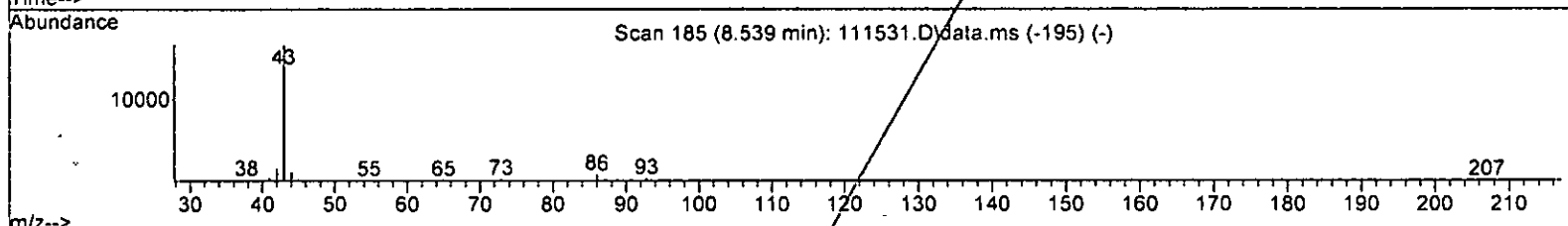
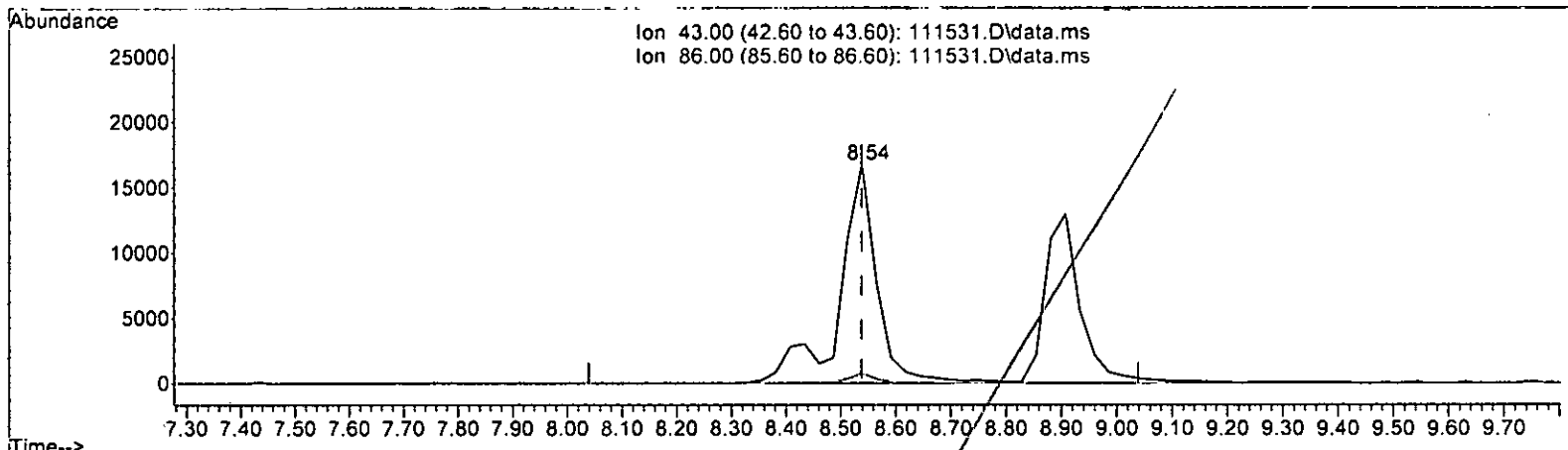
*W. White*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111531.D\data.ms

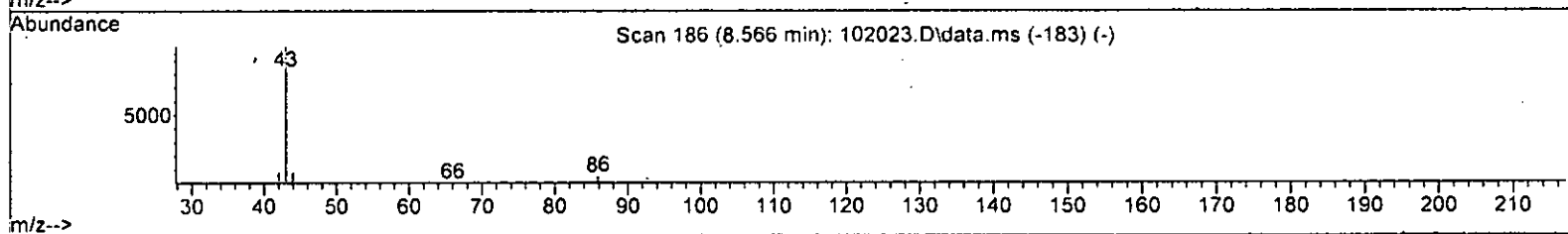
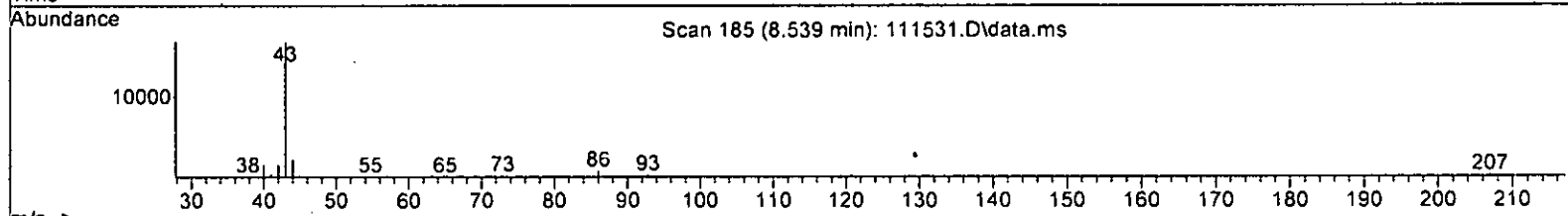
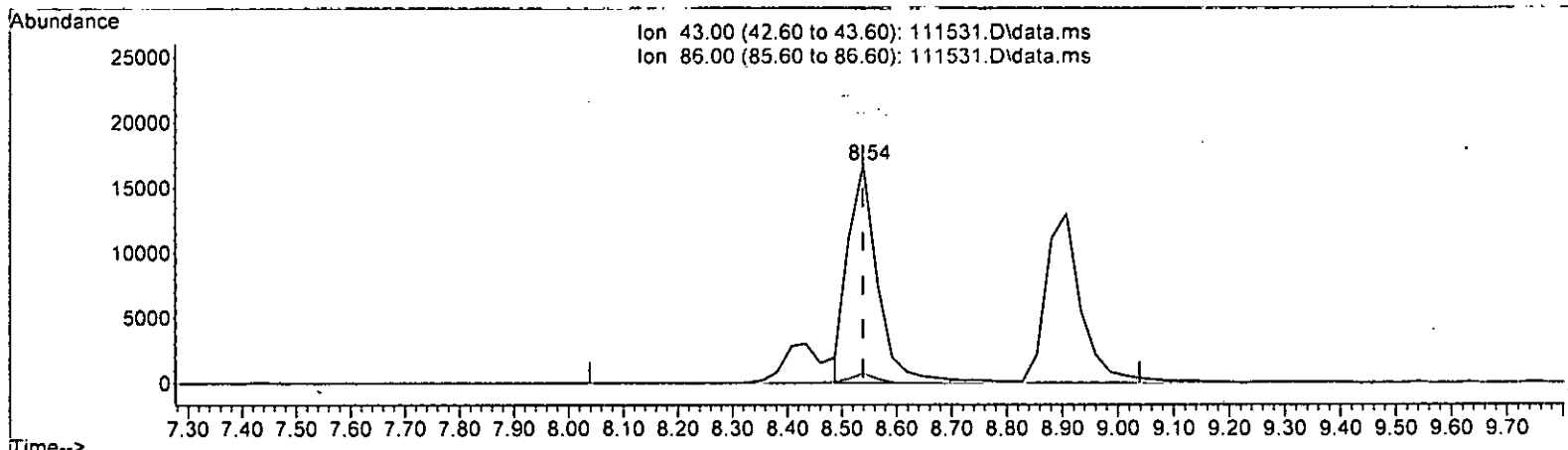
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000)	3.372 ppbv	
response	79442	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	4.44
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

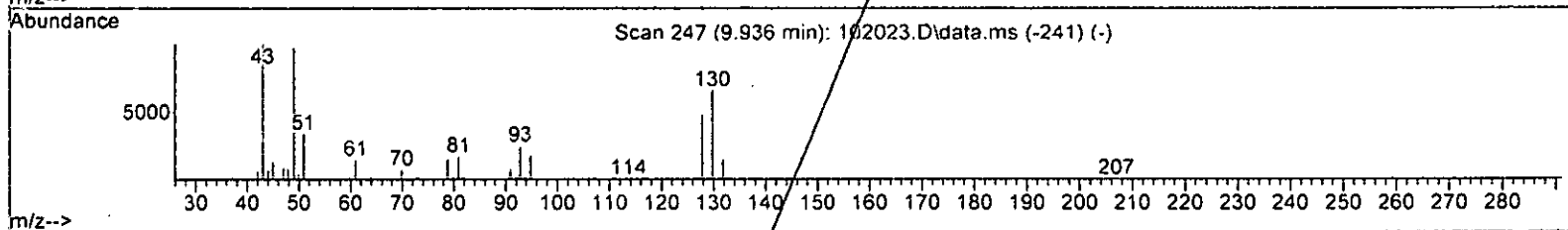
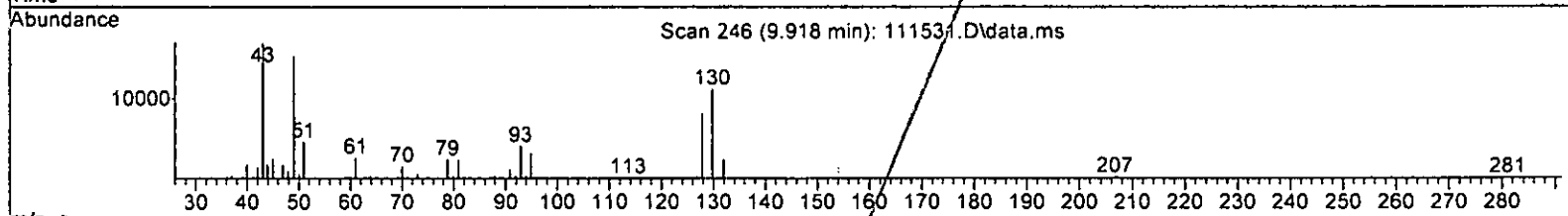
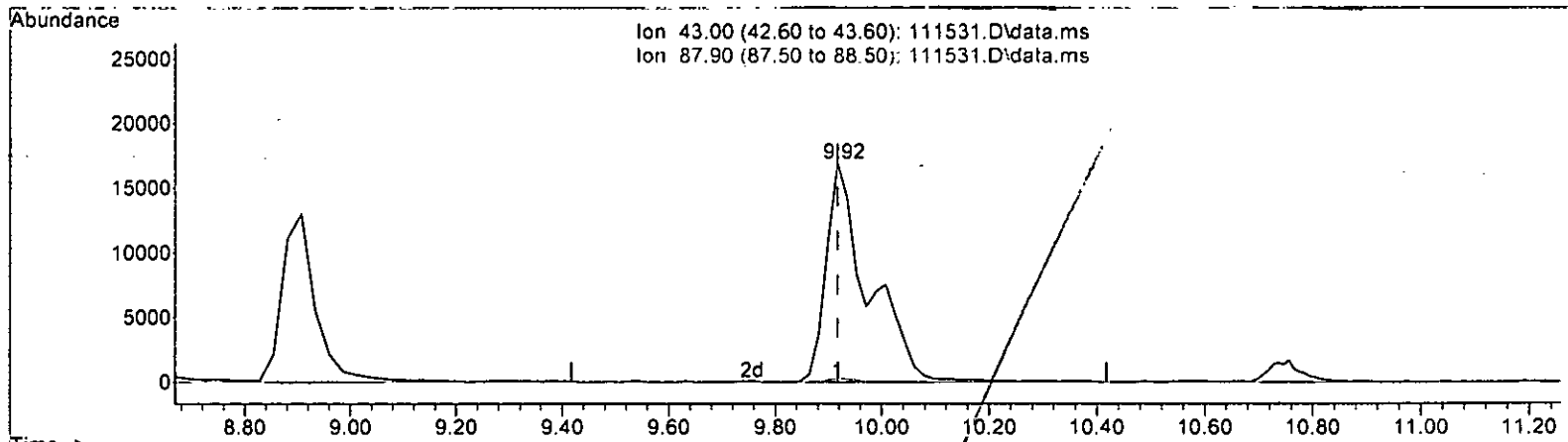
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000)	2.636 ppbv m	
response	62089	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	4.44
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: W/Mark*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

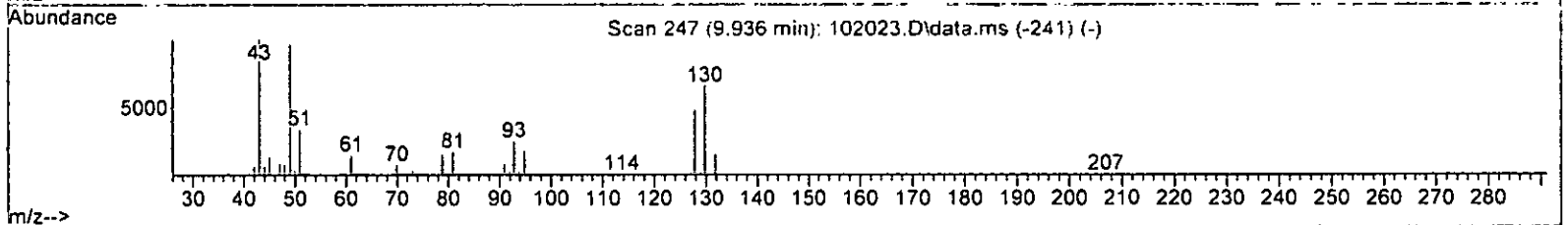
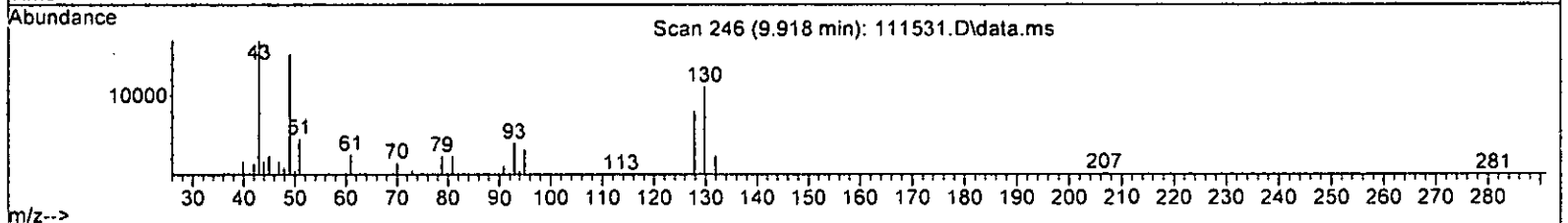
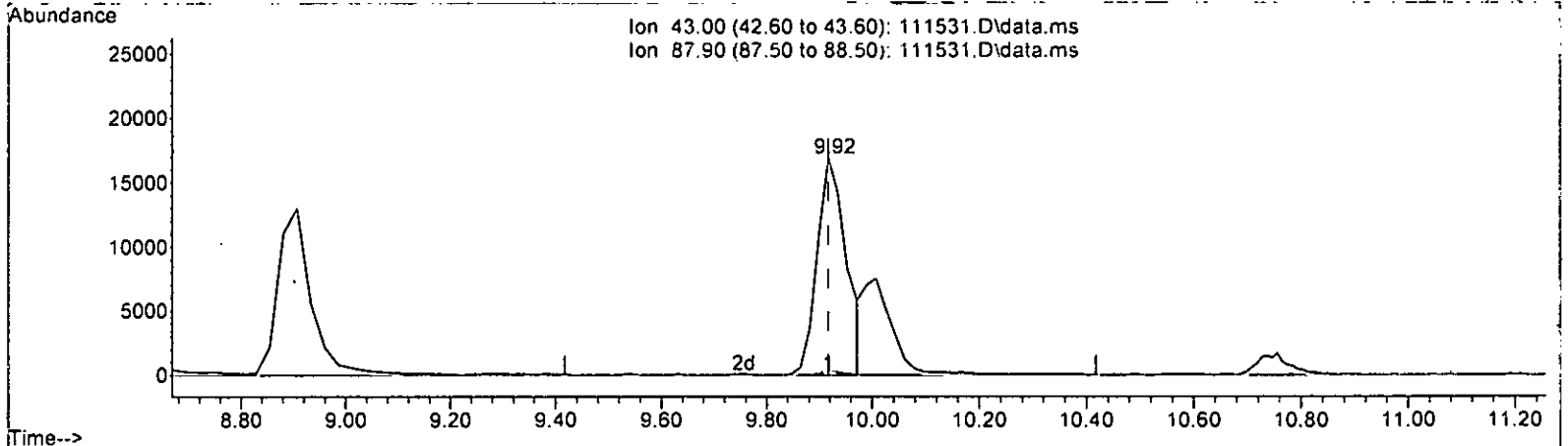
(31) Ethyl acetate (TMP)		
9.918min (-0.000)	3.959 ppbv	
response	92951	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	1.00#
0.00	0.00	0.00
0.00	0.00	0.00

*W. H. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

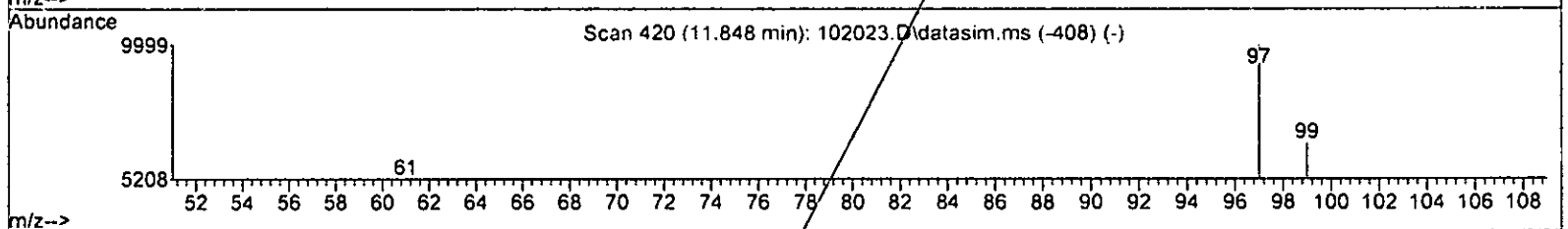
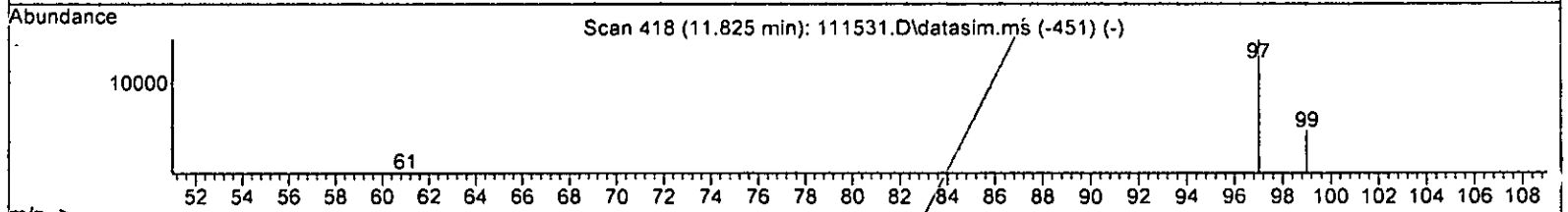
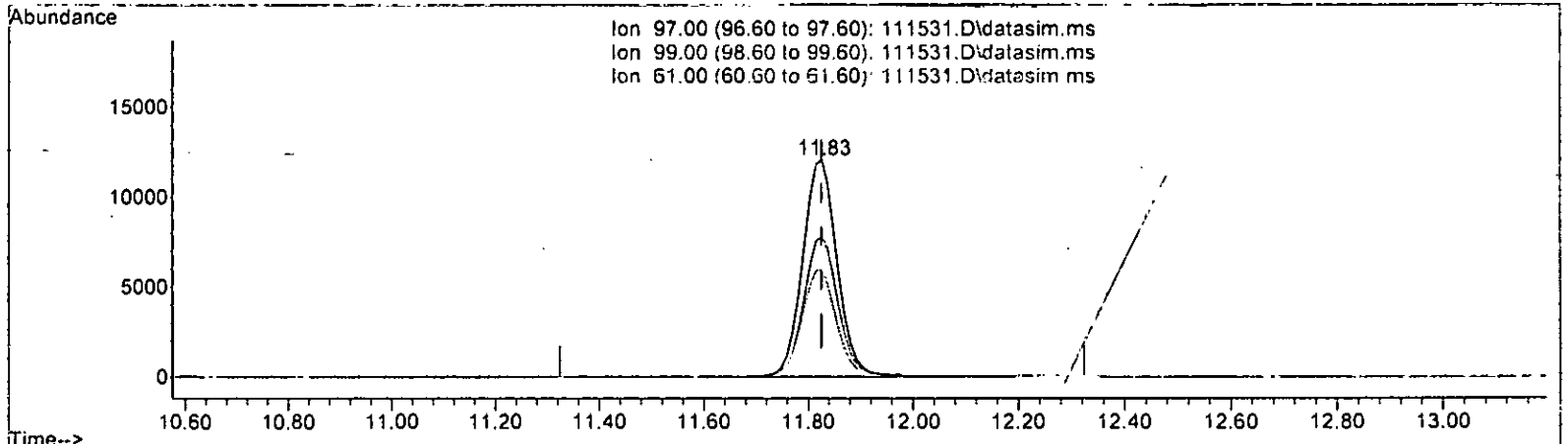
(31) Ethyl acetate (TMP)		
9.918min (-0.000)	2.770 ppbv m	
response	65034	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	1.43
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 111531.D\data.ms

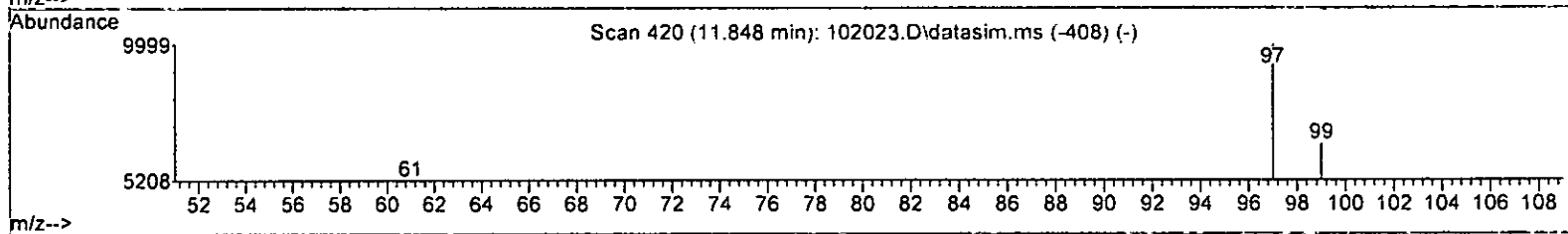
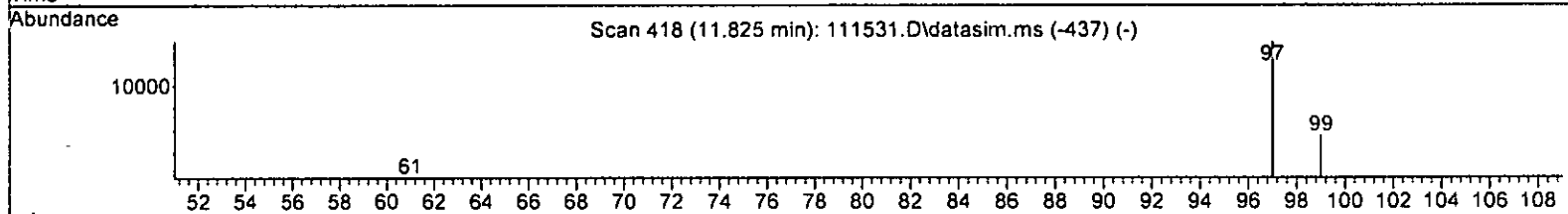
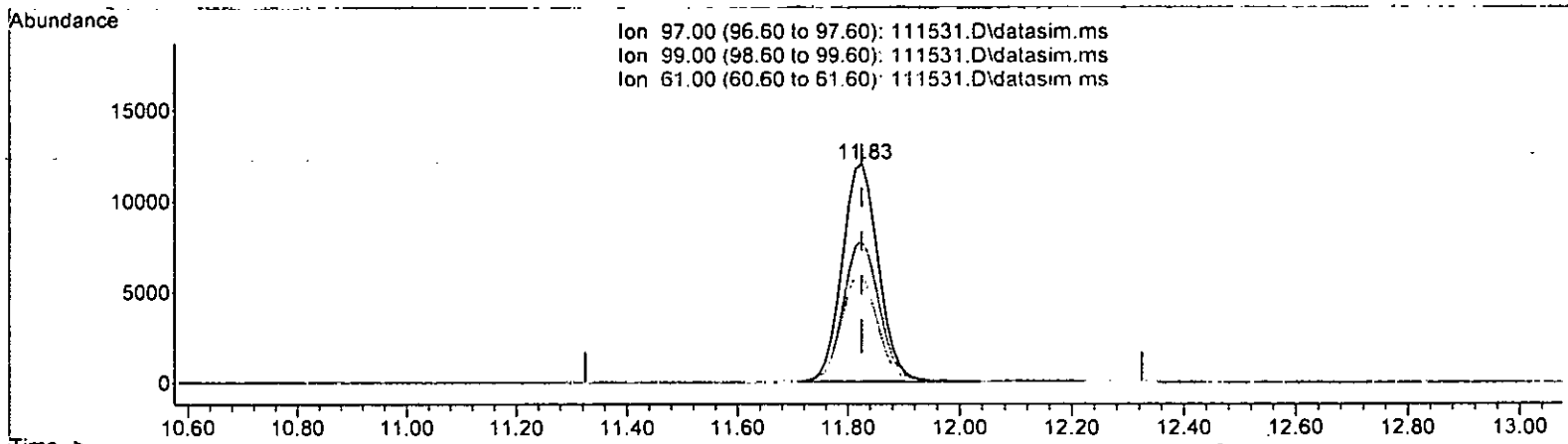
(35)	1,1,1-Trichloroethane (TMP)	
11.825min (+ 0.000)	2.690 ppbv	
response	55745	
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	64.90
61.00	49.30	49.26
0.00	0.00	0.00

h  
11/18/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 111531.D\data.ms

(35)	1,1,1-Trichloroethane (TMP)	
11.825min (+ 0.000)	2.635 ppbv m	
response	54606	
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	64.90
61.00	49.30	49.26
0.00	0.00	0.00

*W/alt*

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 2Scc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCM57 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	61975	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	285054	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	252304	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	184349	10.543	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	105.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	3.41	41	25209	3.082	ppbv	90
3) Dichlorodifluoromethane	3.49	85	69321	2.713	ppbv	98
4] Chloromethane	3.73	50	30819m	2.642	ppbv	
5) F-114	3.84	85	70686	2.705	ppbv	98
6] Vinyl chloride	4.09	62	29416	2.565	ppbv	98
7] 1,3-Butadiene	4.29	54	19220	2.550	ppbv #	91
8) Butane	4.36	43	37260	2.754	ppbv	99
9) Bromomethane	4.60	94	30156	2.634	ppbv	92
10] Chloroethane	4.84	64	10966m	2.703	ppbv	
11] Vinyl bromide	5.32	106	26943m	2.701	ppbv	
12) Ethanol	4.96	45	8816	2.145	ppbv	94
13] Acrolein	5.41	56	10966m	2.428	ppbv	
14) Pentane	6.25	43	42830	2.809	ppbv	97
15) Trichlorofluoromethane	5.84	101	79079	2.669	ppbv	99
16) Acetone	5.57	58	11170	2.537	ppbv	93
17) 2-Propanol	5.80	45	51858	2.703	ppbv	93
18] 1,1-Dichloroethene	6.63	96	26078	2.557	ppbv	96
19] trans-1,2-Dichloroethene	8.10	96	25989	2.624	ppbv #	73
20) Methylene chloride	6.80	84	26049	2.842	ppbv	95
21) t-Butyl alcohol (TBA)	6.57	59	46241	2.797	ppbv #	75
22) 3-Chloropropene	6.94	41	36089	2.832	ppbv	100
23) CFC-113	7.15	101	58356	2.714	ppbv	98
24) Carbon disulfide	7.28	76	88752	2.772	ppbv	94
25) Methyl t-butyl ether (...)	8.43	73	59673	2.804	ppbv	99
26) Vinyl acetate	8.54	43	62089m	2.636	ppbv	
27] 1,1-Dichloroethane	8.36	63	55849	2.696	ppbv	99
28] cis-1,2-Dichloroethene	9.64	96	27622	2.637	ppbv	100
29) Hexane	10.01	57	35835	2.796	ppbv	97
30] Chloroform	10.08	83	66242	2.786	ppbv	95
31) Ethyl acetate	9.92	43	65034m	2.770	ppbv	
32) Tetrahydrofuran	10.75	42	30001	2.675	ppbv	97
33) 2-Butanone (MEK)	8.91	72	10955	2.856	ppbv	96
34] 1,2-Dichloroethane (EDC)	11.34	62	42782	2.697	ppbv	99
35] 1,1,1-Trichloroethane	11.83	97	54606m	2.635	ppbv	
36] Carbon tetrachloride	12.86	117	36374	1.666	ppbv	97
37] Benzene	12.61	78	88298	2.727	ppbv	95
38) Cyclohexane	13.07	84	22831	2.695	ppbv	93
40] 1,2-Dichloropropane	13.80	63	40956	2.654	ppbv	99

Data Path : D:\Proc\_GCM57\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCM57 Methods\1115T015ss7.M  
 Quant Title : T0-15 55 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

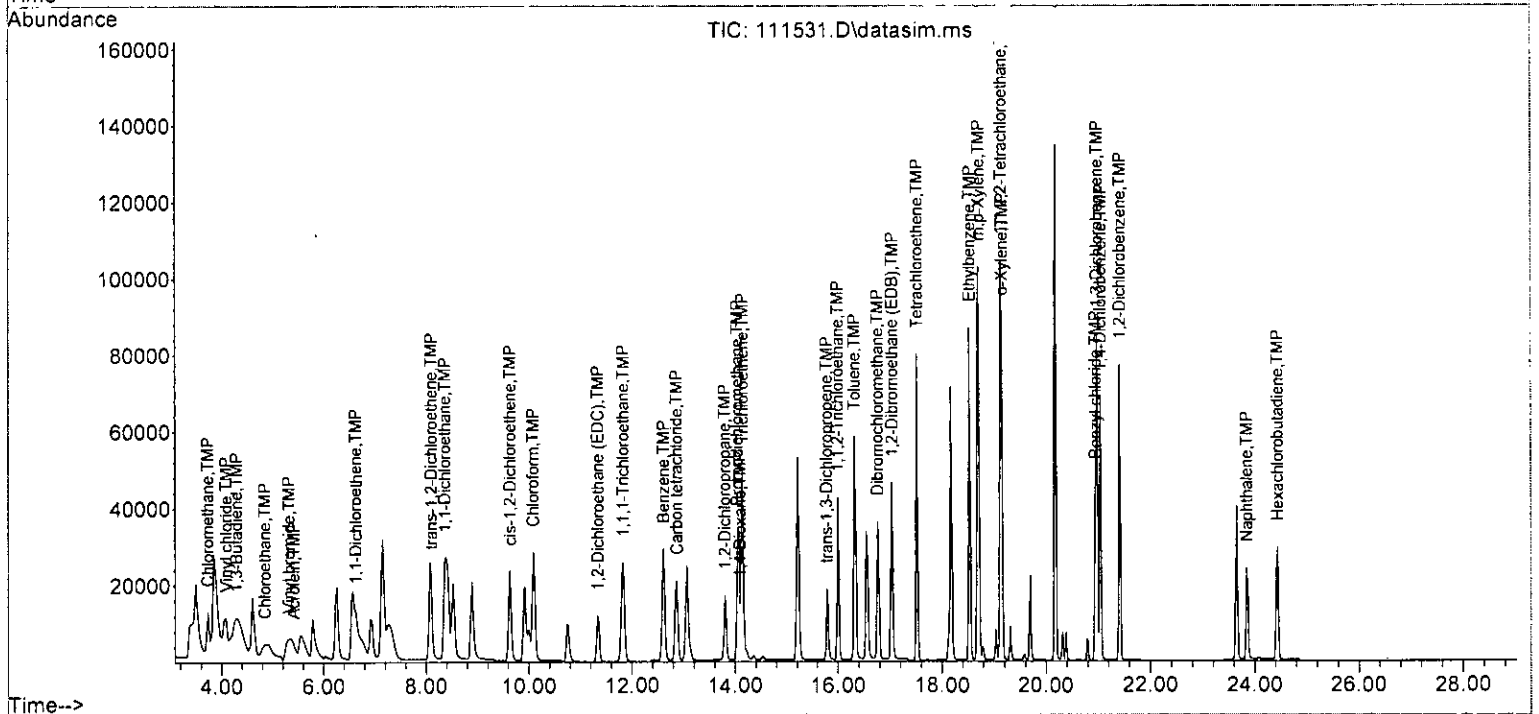
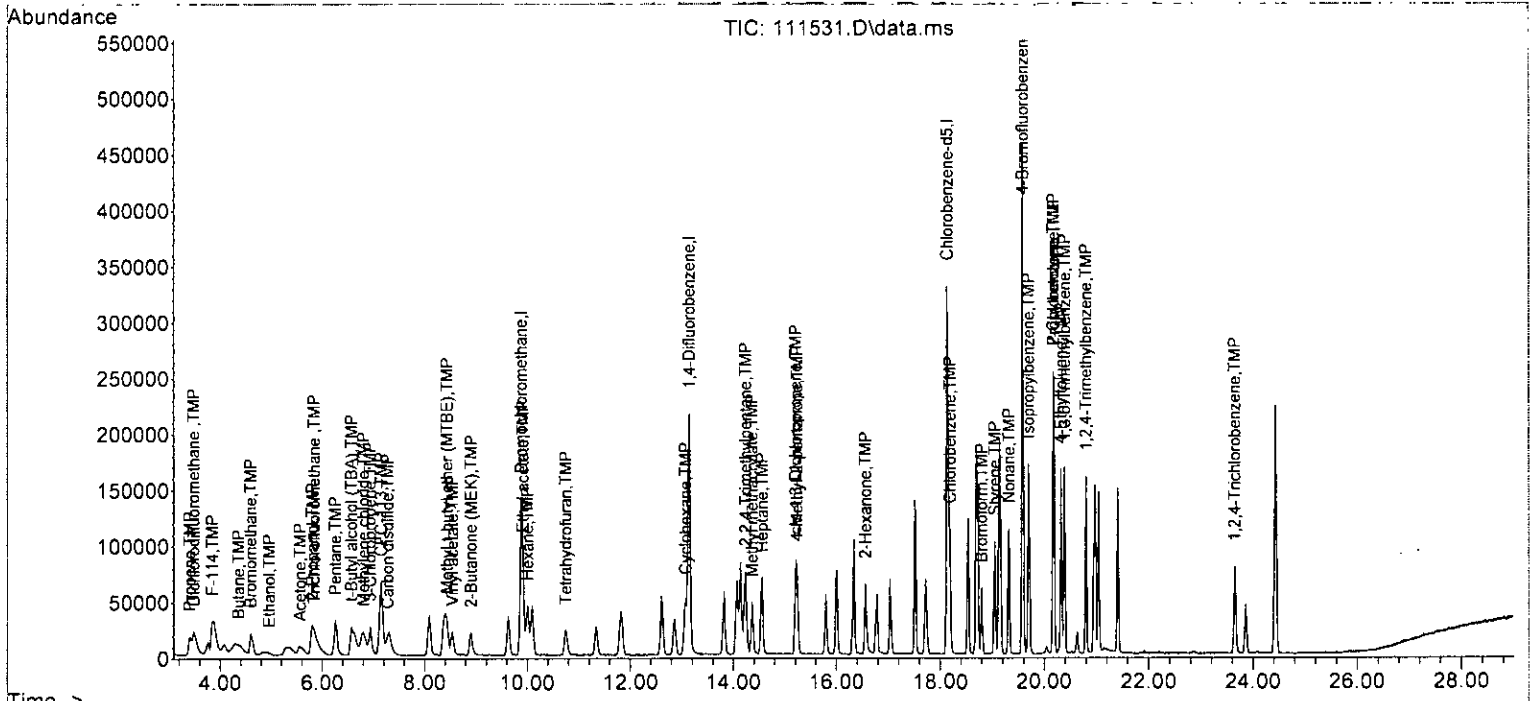
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	17518	2.669	ppbv	78
42) 2,2,4-Trimethylpentane	14.24	57	122609	2.691	ppbv	93
43) Methyl methacrylate	14.36	41	36708	2.654	ppbv	96
44) Heptane	14.56	43	51797	2.739	ppbv	98
45] Bromodichloromethane	14.04	83	59200	2.445	ppbv	100
46] Trichloroethene	14.14	95	43413	2.568	ppbv	94
47) cis-1,3-Dichloropropene	15.20	75	44702	2.619	ppbv	92
48) 4-Methyl-2-pentanone	15.23	100	3391	2.688	ppbv #	96
49] trans-1,3-Dichloropropene	15.78	75	42262	2.633	ppbv	82
50] Toluene	16.31	92	55036	2.731	ppbv	97
51] 1,1,2-Trichloroethane	16.00	83	40225	2.741	ppbv	93
52) 2-Hexanone	16.56	43	65975	2.735	ppbv	93
53] Tetrachloroethene	17.52	164	37752	2.704	ppbv	91
54] Dibromochloromethane	16.76	129	43793	1.785	ppbv	99
55] 1,2-Dibromoethane (EDB)	17.04	107	58426	2.699	ppbv	97
57) Chlorobenzene	18.19	112	75900	2.733	ppbv	97
58] Ethylbenzene	18.53	91	123621	2.743	ppbv	96
59] 1,1,2,2-Tetrachloroethane	19.13	83	90916	2.716	ppbv	92
60) Nonane	19.32	43	68538	2.770	ppbv	99
61) Isopropylbenzene	19.70	105	128989	2.853	ppbv	98
62) 2-Chlorotoluene	20.17	126	31705	2.805	ppbv	91
63) Propylbenzene	20.17	91	245974	2.962	ppbv	98
64) 4-Ethyltoluene	20.32	105	112314	2.763	ppbv	99
65] m,p-Xylene	18.70	106	88802	5.558	ppbv	96
66] o-Xylene	19.15	106	43533	2.806	ppbv	99
67) Styrene	19.05	104	59060	2.858	ppbv	96
68) Bromoform	18.80	173	33565	1.294	ppbv	99
70] Benzyl chloride	20.95	91	69517	2.385	ppbv	99
71) 1,3,5-Trimethylbenzene	20.39	105	108574	2.968	ppbv	98
72) 1,2,4-Trimethylbenzene	20.80	105	92552	2.713	ppbv	100
73] 1,3-Dichlorobenzene	20.98	146	73799	2.891	ppbv	99
74] 1,4-Dichlorobenzene	21.05	146	68285	2.858	ppbv	99
75] 1,2-Dichlorobenzene	21.41	146	73948	2.861	ppbv	95
76) 1,2,4-Trichlorobenzene	23.64	180	39701	2.480	ppbv	98
77] Naphthalene	23.84	128	54269	2.569	ppbv	98
78] Hexachlorobutadiene	24.44	225	70740	2.684	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCM57\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCM57 Methods\1115T015ss7.M  
 Quant Title : T0-15 55 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	103	0.00
2 TMP Propene	2.500	3.082	-23.3	118	0.00
3 TMP Dichlorodifluoromethane	2.500	2.713	-8.5	107	0.00
4 TMP Chloromethane	2.500	2.642	-5.7	108	0.00
5 TMP F-114	2.500	2.705	-8.2	112	-0.04
6 TMP Vinyl chloride	2.500	2.565	-2.6	107	0.00
7 TMP 1,3-Butadiene	2.500	2.550	-2.0	108	0.00
8 TMP Butane	2.500	2.754	-10.2	108	0.04
9 TMP Bromomethane	2.500	2.634	-5.4	108	0.00
10 TMP Chloroethane	2.500	2.703	-8.1	105	0.00
11 TMP Vinyl bromide	2.500	2.701	-8.0	106	0.00
12 TMP Ethanol	2.500	2.145	14.2	82	0.00
13 TMP Acrolein	2.500	2.428	2.9	111	0.00
14 TMP Pentane	2.500	2.809	-12.4	108	0.00
15 TMP Trichlorofluoromethane	2.500	2.669	-6.8	102	0.00
16 TMP Acetone	2.500	2.537	-1.5	95	0.00
17 TMP 2-Propanol	2.500	2.703	-8.1	107	0.02
18 TMP 1,1-Dichloroethene	2.500	2.557	-2.3	107	0.00
19 TMP trans-1,2-Dichloroethene	2.500	2.624	-5.0	107	0.00
20 TMP Methylene chloride	2.500	2.842	-13.7	106	0.00
21 TMP t-Butyl alcohol (TBA)	2.500	2.797	-11.9	117	0.00
22 TMP 3-Chloropropene	2.500	2.832	-13.3	115	0.00
23 TMP CFC-113	2.500	2.714	-8.6	104	0.00
24 TMP Carbon disulfide	2.500	2.772	-10.9	101	0.00
25 TMP Methyl t-butyl ether (MTBE)	2.500	2.804	-12.2	108	0.00
26 TMP Vinyl acetate	2.500	2.636	-5.4	101	0.00
27 TMP 1,1-Dichloroethane	2.500	2.696	-7.8	106	0.00
28 TMP cis-1,2-Dichloroethene	2.500	2.637	-5.5	108	0.00
29 TMP Hexane	2.500	2.796	-11.8	113	0.00
30 TMP Chloroform	2.500	2.786	-11.4	108	-0.02
31 TMP Ethyl acetate	2.500	2.770	-10.8	112	0.00
32 TMP Tetrahydrofuran	2.500	2.675	-7.0	112	0.00
33 TMP 2-Butanone (MEK)	2.500	2.856	-14.2	109	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.500	2.697	-7.9	106	0.00
35 TMP 1,1,1-Trichloroethane	2.500	2.635	-5.4	99	0.00
36 TMP Carbon tetrachloride	2.500	1.666	33.4#	64	0.00
37 TMP Benzene	2.500	2.727	-9.1	107	0.00
38 TMP Cyclohexane	2.500	2.695	-7.8	105	0.00
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	103	0.00
40 TMP 1,2-Dichloropropane	2.500	2.654	-6.2	107	0.00
41 TMP 1,4-Dioxane	2.500	2.669	-6.8	114	0.00
42 TMP 2,2,4-Trimethylpentane	2.500	2.691	-7.6	106	0.00
43 TMP Methyl methacrylate	2.500	2.654	-6.2	101	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 AL5 Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 55 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	2.500	2.739	-9.6	108	0.00
45 TMP Bromodichloromethane	2.500	2.445	2.2	93	0.00
46 TMP Trichloroethene	2.500	2.568	-2.7	108	0.00
47 TMP cis-1,3-Dichloropropene	2.500	2.619	-4.8	98	0.00
48 TMP 4-Methyl-2-pentanone	2.500	2.688	-7.5	107	0.00
49 TMP trans-1,3-Dichloropropene	2.500	2.633	-5.3	101	0.00
50 TMP Toluene	2.500	2.731	-9.2	108	0.00
51 TMP 1,1,2-Trichloroethane	2.500	2.741	-9.6	106	0.00
52 TMP 2-Hexanone	2.500	2.735	-9.4	110	0.00
53 TMP Tetrachloroethene	2.500	2.704	-8.2	106	0.00
54 TMP Dibromochloromethane	2.500	1.785	28.6	69	0.00
55 TMP 1,2-Dibromoethane (EDB)	2.500	2.699	-8.0	105	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	104	0.00
57 TMP Chlorobenzene	2.500	2.733	-9.3	109	0.00
58 TMP Ethylbenzene	2.500	2.743	-9.7	108	0.00
59 TMP 1,1,2,2-Tetrachloroethane	2.500	2.716	-8.6	105	0.00
60 TMP Nonane	2.500	2.770	-10.8	107	0.02
61 TMP Isopropylbenzene	2.500	2.853	-14.1	106	0.00
62 TMP 2-Chlorotoluene	2.500	2.805	-12.2	106	0.00
63 TMP Propylbenzene	2.500	2.962	-18.5	109	-0.01
64 TMP 4-Ethyltoluene	2.500	2.763	-10.5	110	0.00
65 TMP m,p-Xylene	5.000	5.558	-11.2	109	0.00
66 TMP o-Xylene	2.500	2.806	-12.2	108	0.00
67 TMP Styrene	2.500	2.858	-14.3	113	0.00
68 TMP Bromoform	2.500	1.294	48.2#	50	0.00
69 S 4-Bromofluorobenzene	10.000	10.543	-5.4	102	0.00
70 TMP Benzyl chloride	2.500	2.385	4.6	93	0.00
71 TMP 1,3,5-Trimethylbenzene	2.500	2.968	-18.7	108	0.00
72 TMP 1,2,4-Trimethylbenzene	2.500	2.713	-8.5	112	0.00
73 TMP 1,3-Dichlorobenzene	2.500	2.891	-15.6	110	0.00
74 TMP 1,4-Dichlorobenzene	2.500	2.858	-14.3	111	0.00
75 TMP 1,2-Dichlorobenzene	2.500	2.861	-14.4	109	0.00
76 TMP 1,2,4-Trichlorobenzene	2.500	2.480	0.8	120	0.00
77 TMP Naphthalene	2.500	2.569	-2.8	124	0.00
78 TMP Hexachlorobutadiene	2.500	2.684	-7.4	109	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 2Sppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	103	0.00
2 TMP Propene	1.556	1.627	-4.6	118	0.00
3 TMP Dichlorodifluoromethane	4.123	4.474	-8.5	107	0.00
4 TMP Chloromethane	1.882	1.989	-5.7	108	0.00
5 TMP F-114	4.217	4.562	-8.2	112	-0.04
6 TMP Vinyl chloride	1.851	1.899	-2.6	107	0.00
7 TMP 1,3-Butadiene	1.216	1.241	-2.1	108	0.00
8 TMP Butane	2.183	2.405	-10.2	108	0.04
9 TMP Bromomethane	1.847	1.946	-5.4	108	0.00
10 TMP Chloroethane	0.655	0.708	-8.1	105	0.00
11 TMP Vinyl bromide	1.609	1.739	-8.1	106	0.00
12 TMP Ethanol	0.663	0.569	14.2	82	0.00
13 TMP Acrolein	0.729	0.708	2.9	111	0.00
14 TMP Pentane	2.461	2.764	-12.3	108	0.00
15 TMP Trichlorofluoromethane	4.781	5.104	-6.8	102	0.00
16 TMP Acetone	0.710	0.721	-1.5	95	0.00
17 TMP 2-Propanol	3.096	3.347	-8.1	107	0.02
18 TMP 1,1-Dichloroethene	1.645	1.683	-2.3	107	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.677	-4.9	107	0.00
20 TMP Methylene chloride	1.479	1.681	-13.7	106	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.984	-11.8	117	0.00
22 TMP 3-Chloropropene	2.056	2.329	-13.3	115	0.00
23 TMP CFC-113	3.469	3.766	-8.6	104	0.00
24 TMP Carbon disulfide	5.167	5.728	-10.9	101	0.00
25 TMP Methyl t-butyl ether (MTBE)	3.434	3.851	-12.1	108	0.00
26 TMP Vinyl acetate	3.801	4.007	-5.4	101	0.00
27 TMP 1,1-Dichloroethane	3.342	3.605	-7.9	106	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.783	-5.5	108	0.00
29 TMP Hexane	2.068	2.313	-11.8	113	0.00
30 TMP Chloroform	4.060	4.275	-5.3	108	-0.02
31 TMP Ethyl acetate	3.789	4.197	-10.8	112	0.00
32 TMP Tetrahydrofuran	1.809	1.936	-7.0	112	0.00
33 TMP 2-Butanone (MEK)	0.619	0.707	-14.2	109	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.761	-2.8	106	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.524	-5.4	99	0.00
36 TMP Carbon tetrachloride	3.523	2.348	33.4#	64	0.00
37 TMP Benzene	5.688	5.699	-0.2	107	0.00
38 TMP Cyclohexane	1.367	1.474	-7.8	105	0.00
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
40 TMP 1,2-Dichloropropane	0.541	0.575	-6.3	107	0.00
41 TMP 1,4-Dioxane	0.230	0.246	-7.0	114	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.721	-7.7	106	0.00
43 TMP Methyl methacrylate	0.485	0.515	-6.2	101	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\11-15-22\  
 Data File : 111531.D  
 Acq On : 16 Nov 2022 1:27 pm  
 Operator : bat  
 Sample : 2.5 ppbv 67-167a  
 Misc : T7, 25cc of 25ppbv  
 ALS Vial : 31 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Nov 18 15:18:58 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 5S method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.727	-9.7	108	0.00
45 TMP Bromodichloromethane	0.850	0.831	2.2	93	0.00
46 TMP Trichloroethene	0.593	0.609	-2.7	108	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.627	-4.7	98	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.048	-9.1	107	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.593	-5.3	101	0.00
50 TMP Toluene	0.707	0.772	-9.2	108	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.564	-2.5	106	0.00
52 TMP 2-Hexanone	0.846	0.926	-9.5	110	0.00
53 TMP Tetrachloroethene	0.490	0.530	-8.2	106	0.00
54 TMP Dibromochloromethane	0.861	0.615	28.6	69	0.00
55 TMP 1,2-Dibromoethane (EDB)	0.824	0.820	0.5	105	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
57 TMP Chlorobenzene	1.101	1.203	-9.3	109	0.00
58 TMP Ethylbenzene	1.968	1.960	0.4	108	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.441	-3.4	105	0.00
60 TMP Nonane	0.981	1.087	-10.8	107	0.02
61 TMP Isopropylbenzene	1.792	2.045	-14.1	106	0.00
62 TMP 2-Chlorotoluene	0.448	0.503	-12.3	106	0.00
63 TMP Propylbenzene	3.292	3.900	-18.5	109	-0.01
64 TMP 4-Ethyltoluene	1.611	1.781	-10.6	110	0.00
65 TMP m,p-Xylene	0.633	0.704	-11.2	109	0.00
66 TMP o-Xylene	0.615	0.690	-12.2	108	0.00
67 TMP Styrene	0.819	0.936	-14.3	113	0.00
68 TMP Bromoform	1.028	0.532	48.2#	50#	0.00
69 S 4-Bromofluorobenzene	0.693	0.731	-5.5	102	0.00
70 TMP Benzyl chloride	0.987	1.102	-11.7	93	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.721	-18.7	108	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.467	-17.6	112	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.170	-15.6	110	0.00
74 TMP 1,4-Dichlorobenzene	0.947	1.083	-14.4	111	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.172	-14.5	109	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.629	-0.5	120	0.00
77 TMP Naphthalene	1.132	0.860	24.0	124	0.00
78 TMP Hexachlorobutadiene	1.045	1.122	-7.4	109	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

**EPA TO-15  
CCV Summaries**

Spike Recovery and RPD Summary Report - WATER

Method : D:\GCMS7 Methods\1115TO15ss7.M (RTE Integrator)  
 Title : TO-15 SS method  
 Last Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration

Non-Spiked Sample: 121611.D

Spike Sample	Spike Duplicate Sample
File ID : 121603.D	121603.D
Sample : 02-2970 lcs/ 2.5 ppbv 68-40a	02-2970 lcs/ 2.5 ppbv 68-40a
Acq Time: 16 Dec 2022 3:55 pm	16 Dec 2022 3:55 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Propene	0.0	3	3	3	106	106	0	20	70-130
Dichlorodifluorometh	0.0	3	2	2	98	98	0	20	70-130
Chloromethane	0.0	3	2	2	92	92	0	20	70-130
F-114	0.0	3	2	2	93	93	0	20	70-130
Vinyl chloride	0.0	3	2	2	87	87	0	20	70-130
1,3-Butadiene	0.0	3	2	2	79	79	0	20	70-130
Butane	0.9	3	2	2	55#	55#	0	20	70-130
Bromomethane	0.0	3	2	2	90	90	0	20	70-130
Chloroethane	0.0	3	2	2	95	95	0	20	70-130
Vinyl bromide	0.0	3	2	2	92	92	0	20	70-130
Ethanol	0.0	3	5	5	211#	211#	0	20	70-130
Acrolein	0.0	3	2	2	78	78	0	20	70-130
Pentane	0.1	3	2	2	80	80	0	20	70-130
Trichlorofluorometha	0.0	3	3	3	103	103	0	20	70-130
Acetone	0.2	3	2	2	84	84	0	20	70-130
2-Propanol	0.0	3	2	2	95	95	0	20	70-130
1,1-Dichloroethene	0.0	3	2	2	88	88	0	20	70-130
trans-1,2-Dichloroet	0.0	3	2	2	89	89	0	20	70-130
Methylene chloride	0.1	3	3	3	117	117	0	20	70-130
t-Butyl alcohol (TBA	0.0	3	2	2	94	94	0	20	70-130
3-Chloropropene	0.0	3	2	2	89	89	0	20	70-130
CFC-113	0.0	3	3	3	100	100	0	20	70-130
Carbon disulfide	0.0	3	2	2	89	89	0	20	70-130
Methyl t-butyl ether	0.0	3	2	2	86	86	0	20	70-130
Vinyl acetate	0.0	3	2	2	89	89	0	20	70-130
1,1-Dichloroethane	0.0	3	2	2	96	96	0	20	70-130
cis-1,2-Dichloroethe	0.0	3	2	2	87	87	0	20	70-130
Hexane	0.0	3	2	2	80	80	0	20	70-130
Chloroform	0.0	3	3	3	100	100	0	20	70-130
Ethyl acetate	0.0	3	2	2	87	87	0	20	70-130
Tetrahydrofuran	0.0	3	2	2	86	86	0	20	70-130
2-Butanone (MEK)	0.0	3	2	2	95	95	0	20	70-130
1,2-Dichloroethane (	0.0	3	3	3	100	100	0	20	70-130
1,1,1-Trichloroethan	0.0	3	3	3	104	104	0	20	70-130
Carbon tetrachloride	0.0	3	3	3	106	106	0	20	70-130
Benzene	0.0	3	2	2	91	91	0	20	70-130

Cyclohexane	0.0	3	2	2	79	79	0	20	70-130
1,2-Dichloropropane	0.0	3	3	3	101	101	0	20	70-130
1,4-Dioxane	0.0	3	2	2	92	92	0	20	70-130
2,2,4-Trimethylpenta	0.0	3	2	2	89	89	0	20	70-130
Methyl methacrylate	0.0	3	2	2	98	98	0	20	70-130
Heptane	0.0	3	2	2	94	94	0	20	70-130
Bromodichloromethane	0.0	3	3	3	114	114	0	20	70-130
Trichloroethene	0.0	3	3	3	100	100	0	20	70-130
cis-1,3-Dichloroprop	0.0	3	3	3	103	103	0	20	70-130
4-Methyl-2-pentanone	0.0	3	3	3	100	100	0	20	70-130
trans-1,3-Dichloropr	0.0	3	3	3	106	106	0	20	70-130
Toluene	0.1	3	2	2	92	92	0	20	70-130
1,1,2-Trichloroethan	0.0	3	3	3	110	110	0	20	70-130
2-Hexanone	0.0	3	2	2	99	99	0	20	70-130
Tetrachloroethene	0.0	3	3	3	108	108	0	20	70-130
Dibromochloromethane	0.0	3	3	3	115	115	0	20	70-130
1,2-Dibromoethane (E	0.0	3	3	3	109	109	0	20	70-130
Chlorobenzene	0.0	3	3	3	102	102	0	20	70-130
Ethylbenzene	0.0	3	2	2	89	89	0	20	70-130
1,1,2,2-Tetrachloroe	0.0	3	3	3	111	111	0	20	70-130
Nonane	0.0	3	2	2	83	83	0	20	70-130
Isopropylbenzene	0.0	3	2	2	98	98	0	20	70-130
2-Chlorotoluene	0.0	3	2	2	97	97	0	20	70-130
Propylbenzene	0.0	3	2	2	95	95	0	20	70-130
4-Ethyltoluene	0.0	3	2	2	84	84	0	20	70-130
m,p-Xylene	0.0	5	5	5	91	91	0	20	70-130
o-Xylene	0.0	3	2	2	94	94	0	20	70-130
Styrene	0.0	3	2	2	85	85	0	20	70-130
Bromoform	0.0	3	3	3	114	114	0	20	70-130
Benzyl chloride	0.0	3	3	3	107	107	0	20	70-130
1,3,5-Trimethylbenze	0.0	3	3	3	104	104	0	20	70-130
1,2,4-Trimethylbenze	0.1	3	2	2	76	76	0	20	70-130
1,3-Dichlorobenzene	0.0	3	3	3	102	102	0	20	70-130
1,4-Dichlorobenzene	0.0	3	2	2	98	98	0	20	70-130
1,2-Dichlorobenzene	0.0	3	3	3	104	104	0	20	70-130
1,2,4-Trichlorobenze	0.0	3	2	2	70#	70#	0	20	70-130
Naphthalene	0.0	3	2	2	63#	63#	0	20	70-130
Hexachlorobutadiene	0.0	3	3	3	111	111	0	20	70-130

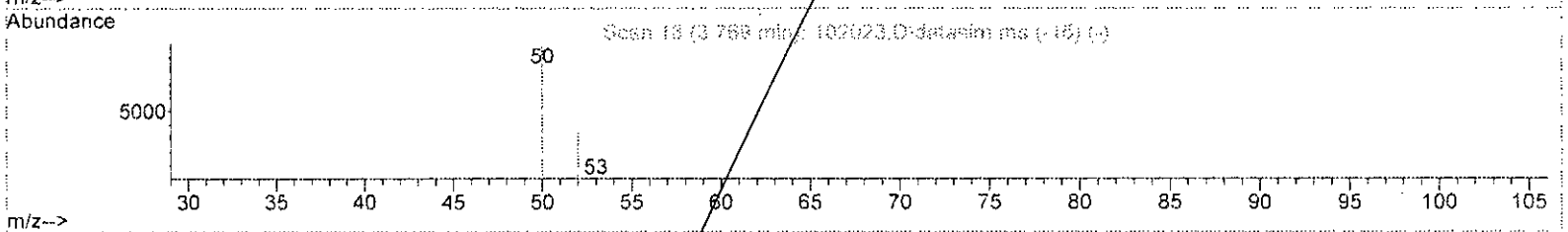
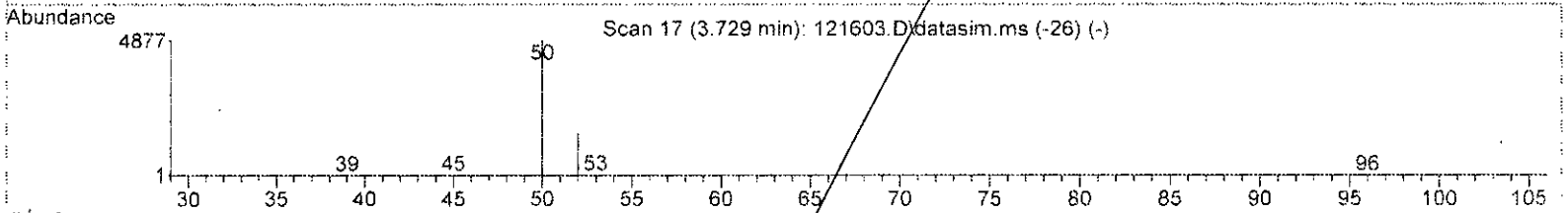
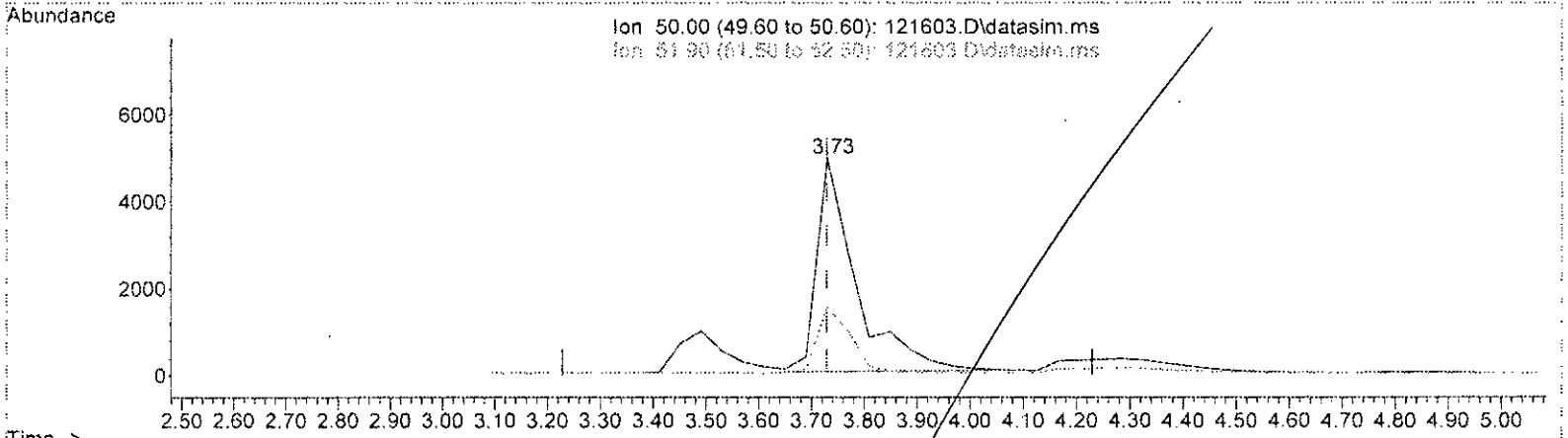
# - Fails Limit Check



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(4) Chloromethane (TMP)

Time	Response	Concentration
3.729min (+ 0.000)	25108	2.739 ppbv

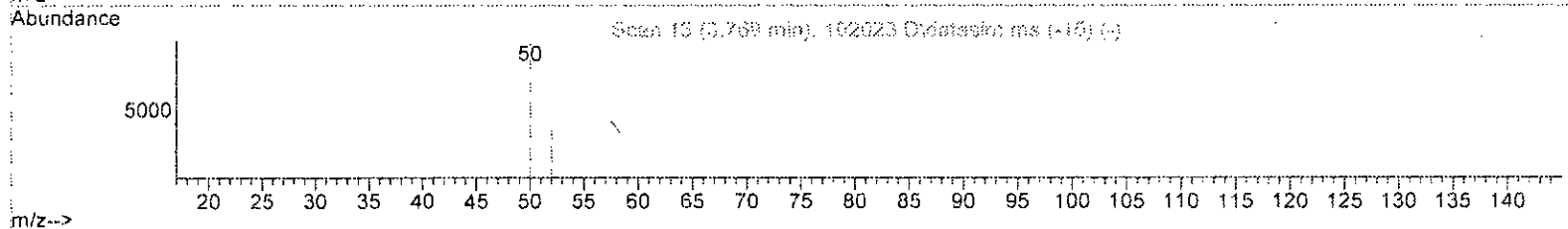
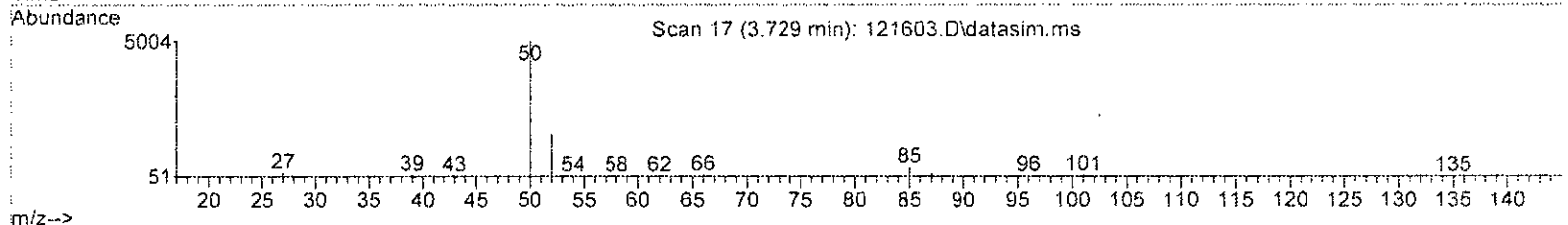
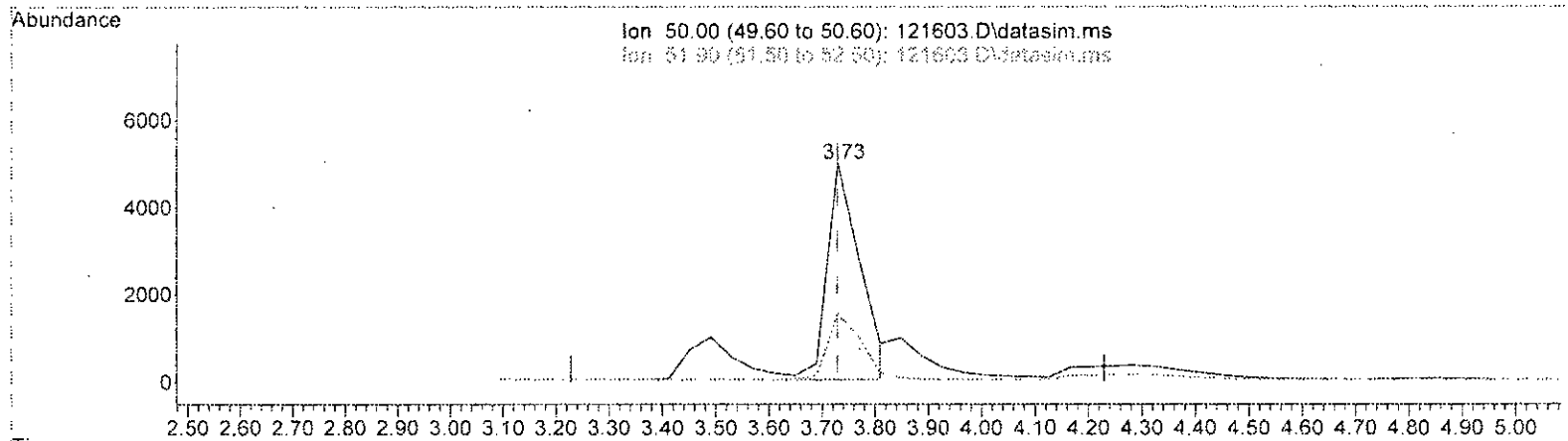
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	30.71
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten:* ✓ 12/16/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(4) Chloromethane (TMP)

3.729min (+ 0.000) 2.312 ppbv m

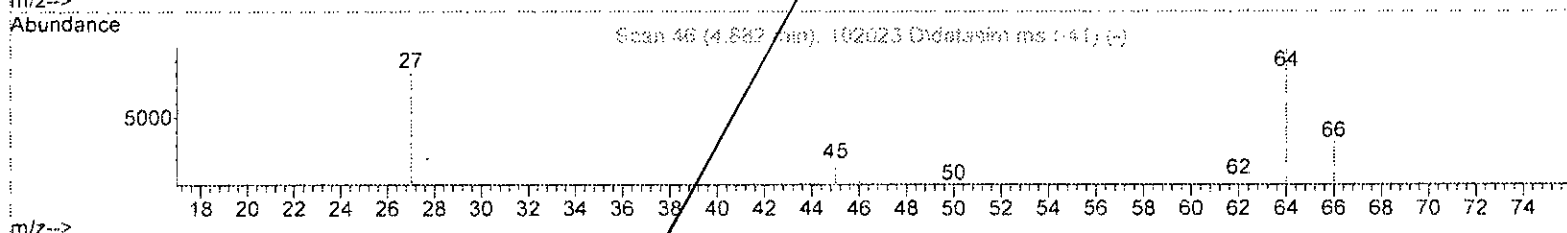
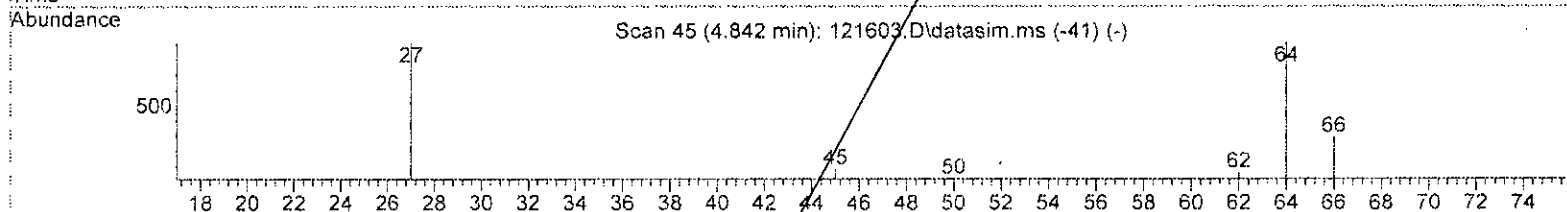
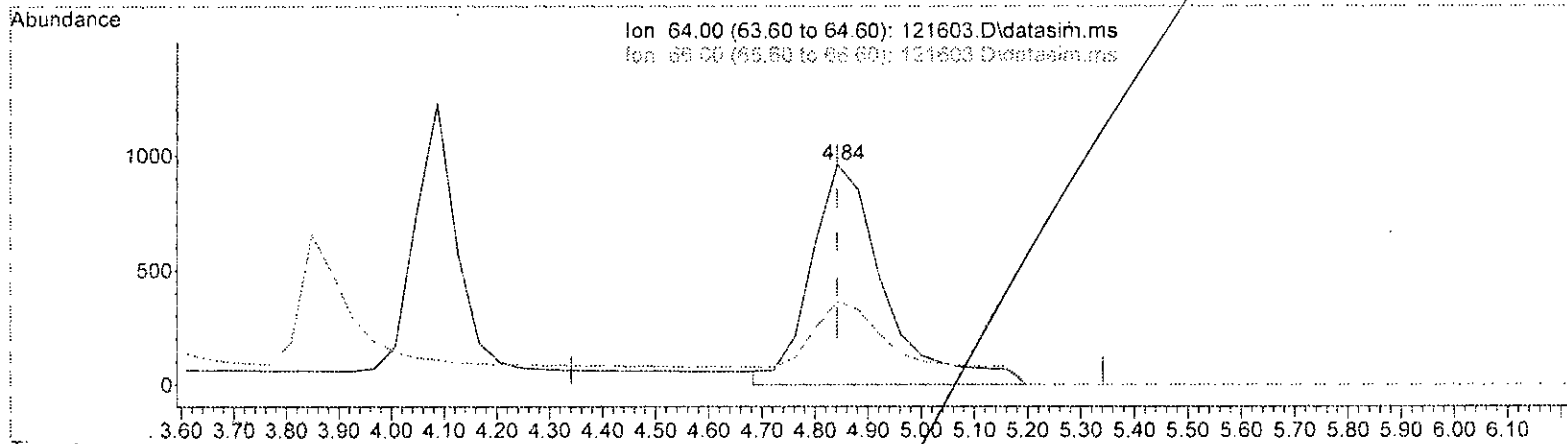
response	21198	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	31.29
0.00	0.00	0.00
0.00	0.00	0.00

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*2/16/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(10) Chloroethane (TMP)  
 4.842min (-0.000) 2.768 ppbv  
 response 8823

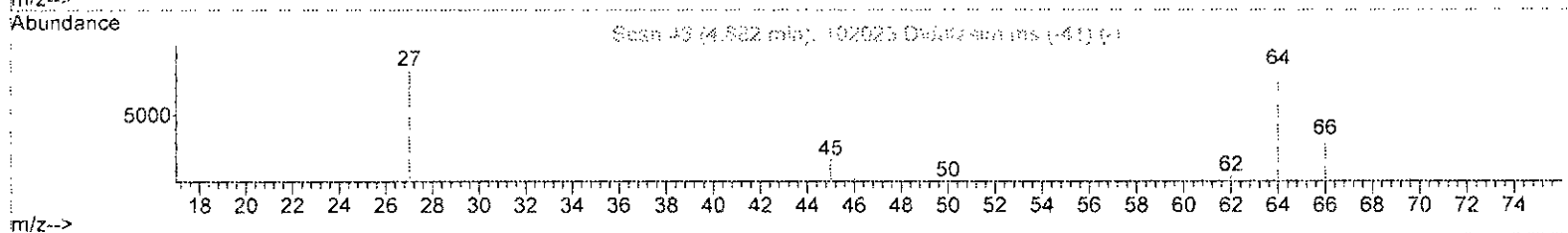
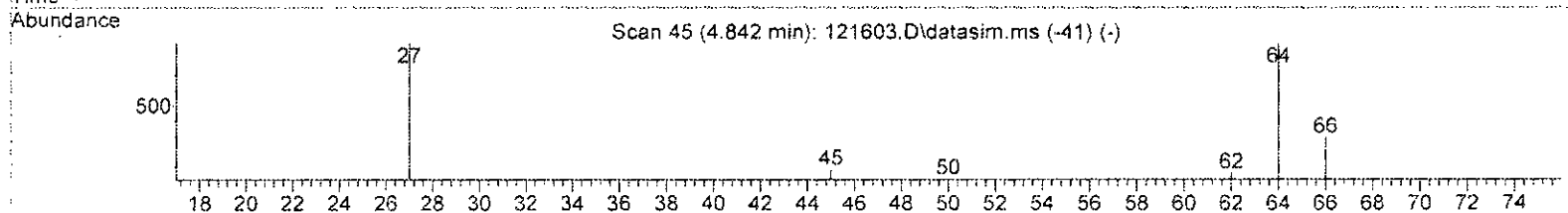
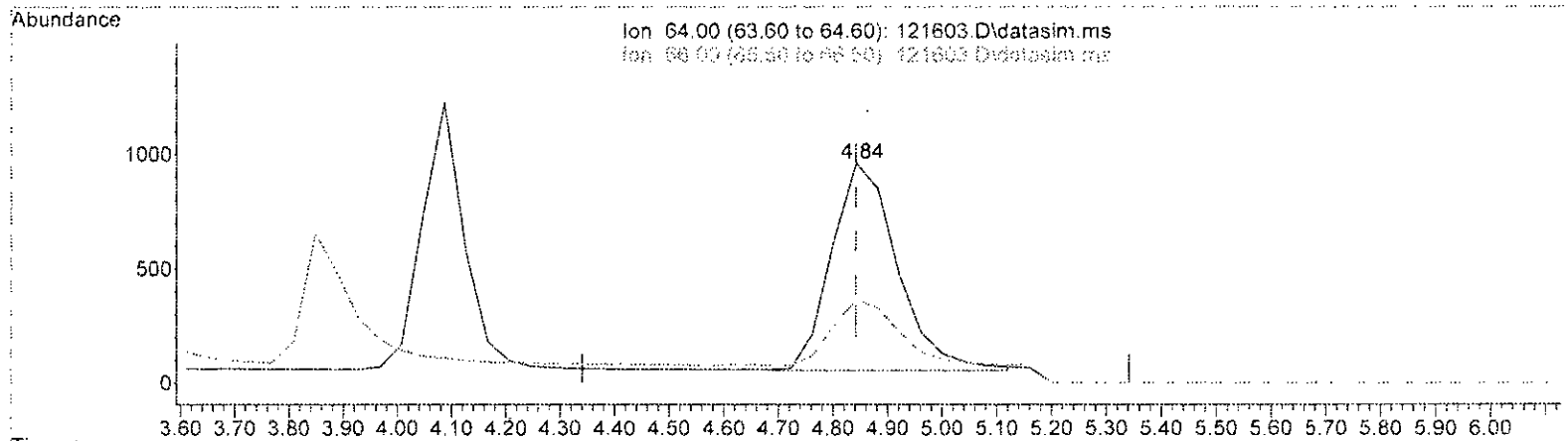
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	38.02
0.00	0.00	0.00
0.00	0.00	0.00

*h*  
*12/16/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(10) Chloroethane (TMP)

4.842min (-0.000) 2.379 ppbv m

response 7582

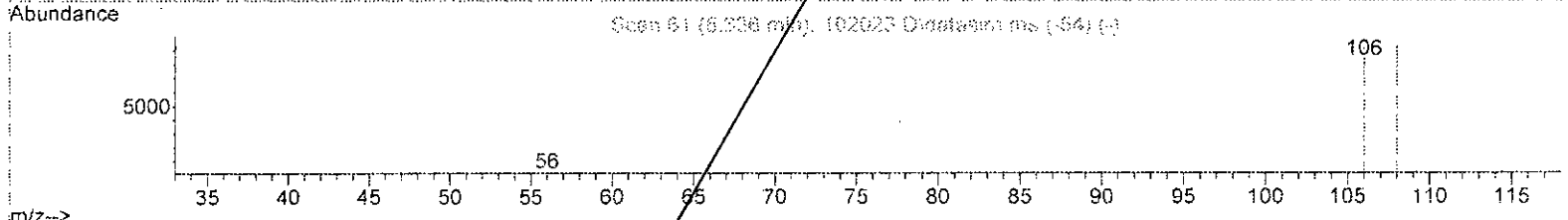
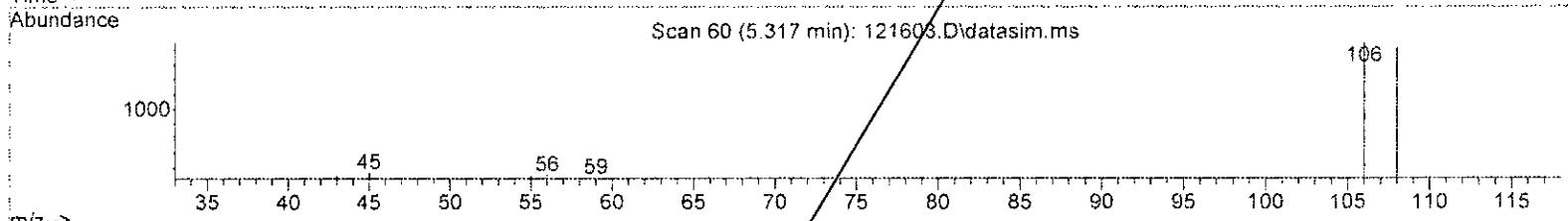
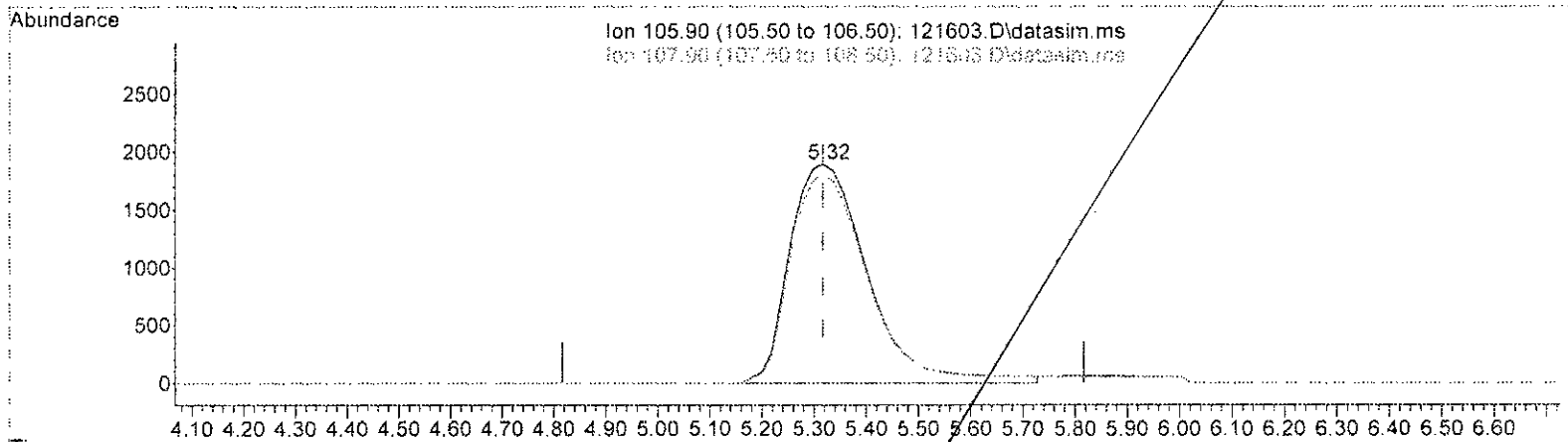
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	38.02
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(11) Vinyl bromide (TMP)

5.317min (-0.000) 2.682 ppbv

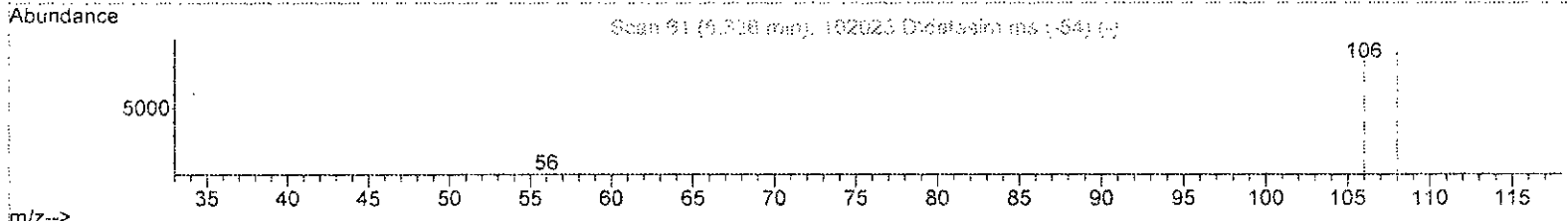
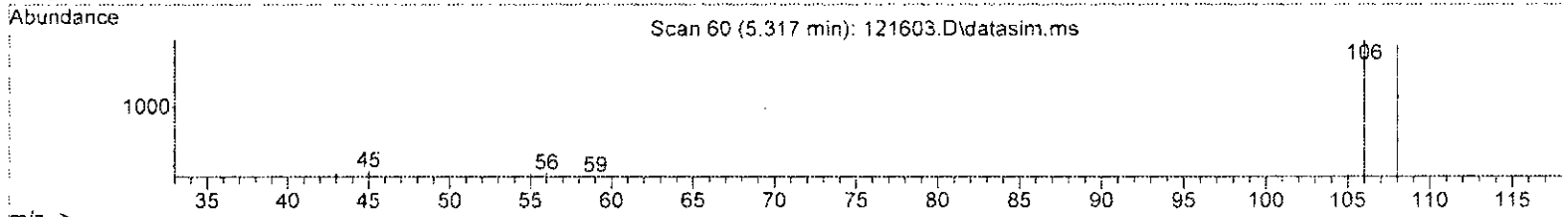
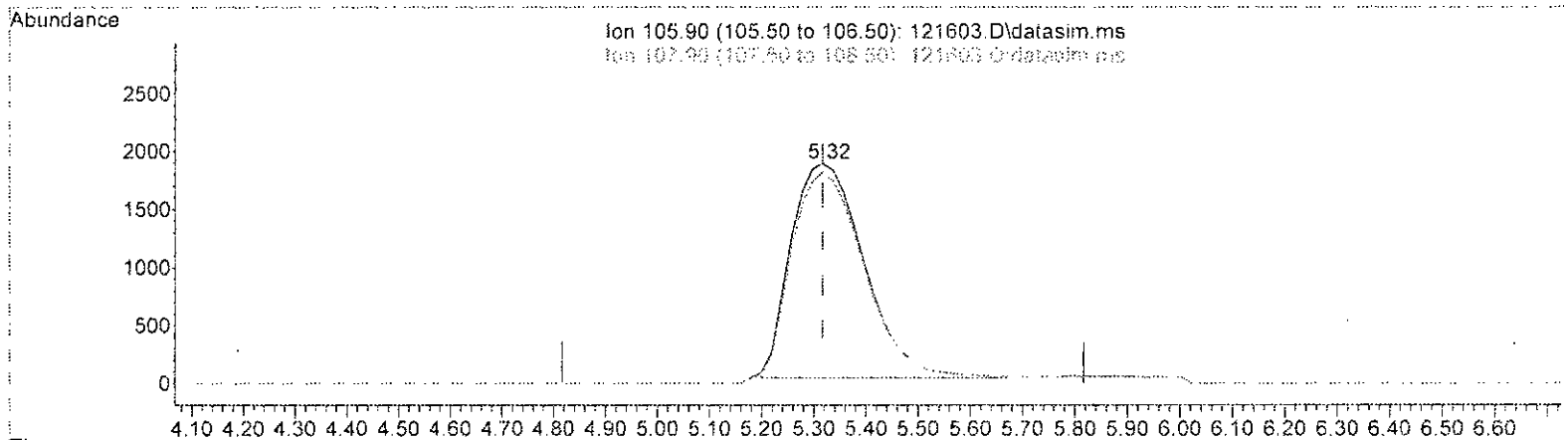
response	21016
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 95.04
0.00	0.00 0.00
0.00	0.00 0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(11) Vinyl bromide (TMP)

5.317min (-0.000) 2.294 ppbv m

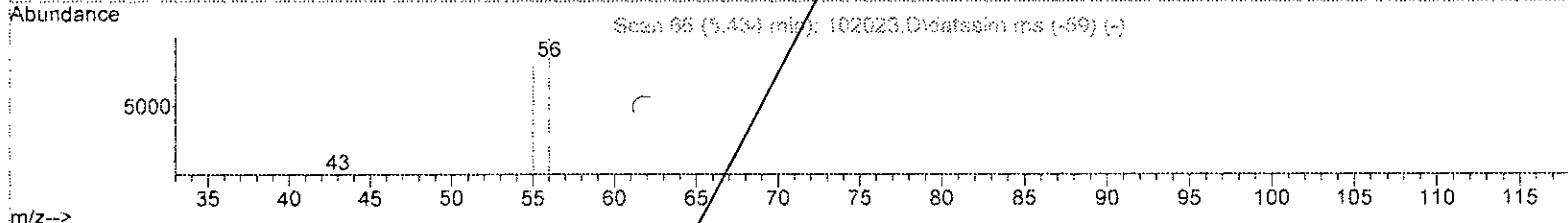
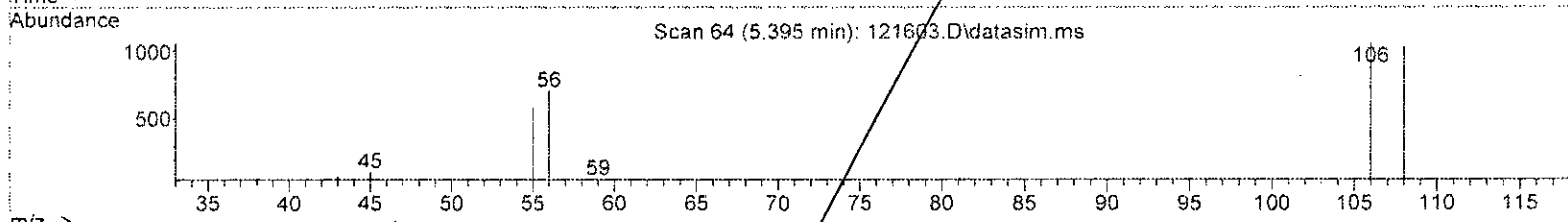
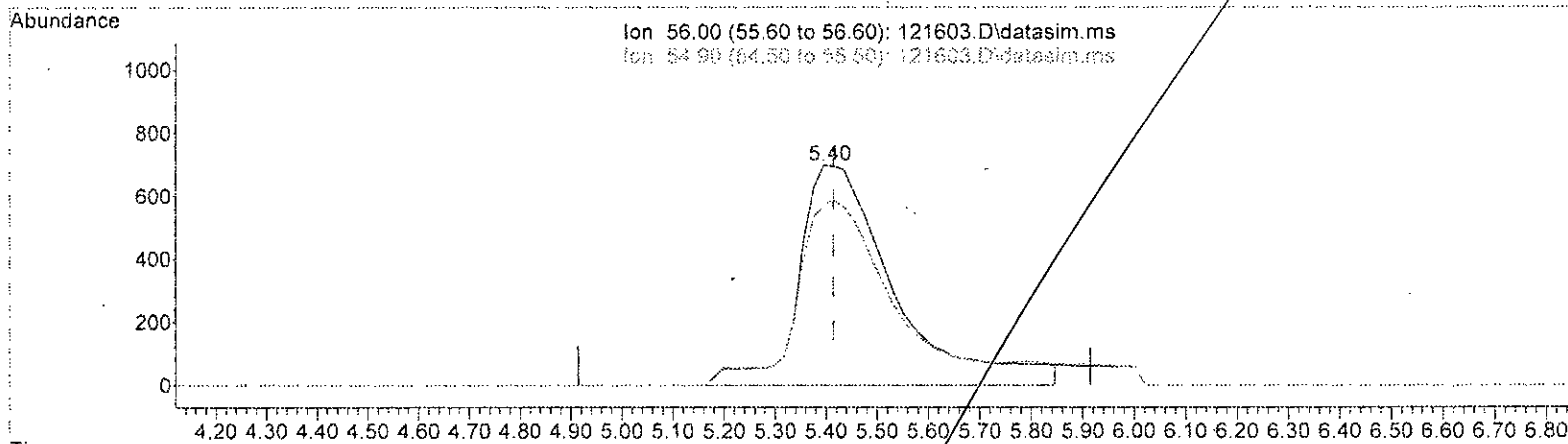
response	17980
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 111.08
0.00	0.00 0.00
0.00	0.00 0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121603.D\data.ms

(13) Acrolein (TMP)

Time	Response	Concentration
5.395min (-0.020)	9522	2.683 ppbv

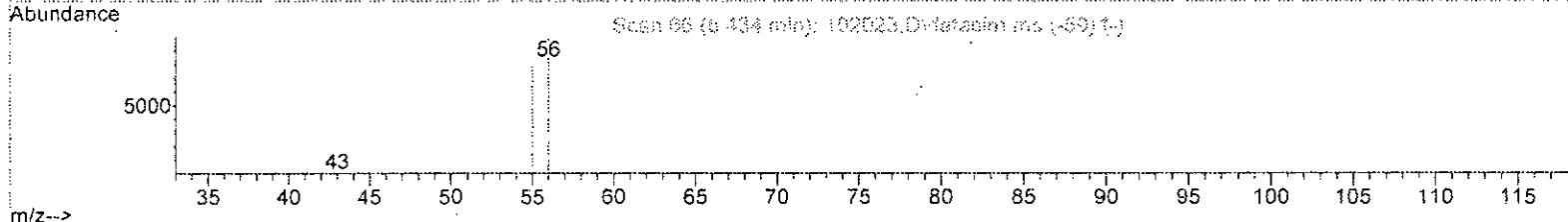
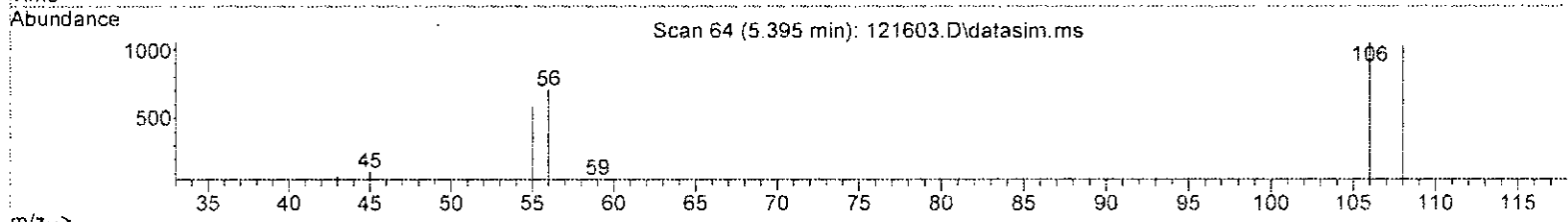
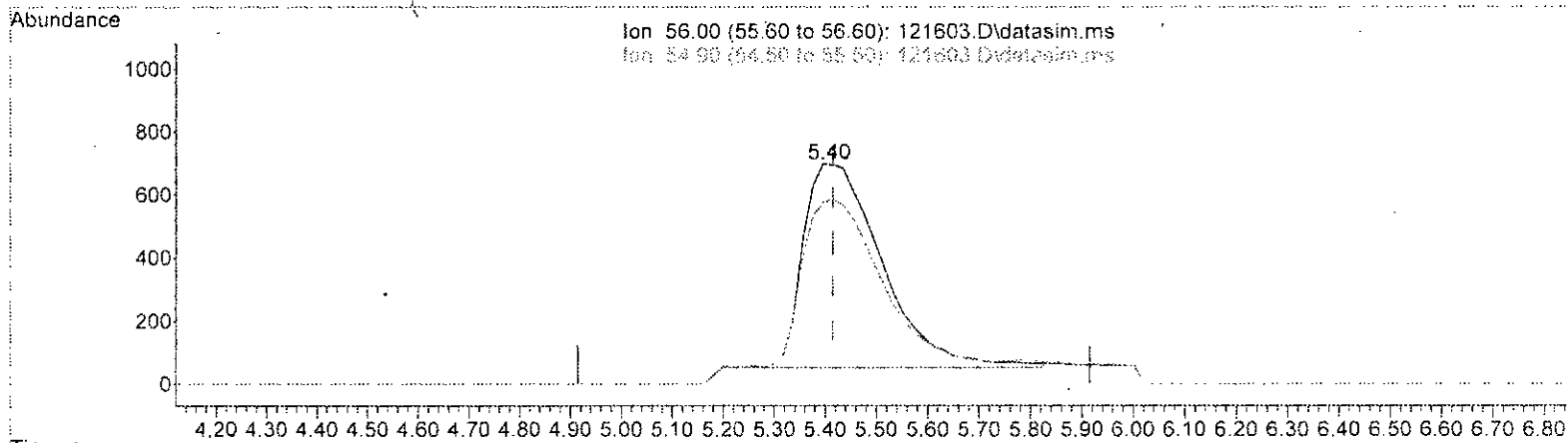
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	84.20
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(13) Acrolein (TMP)

5.395min (-0.020) 1.942 ppbv m

response 6895

Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	116.29#
0.00	0.00	0.00
0.00	0.00	0.00

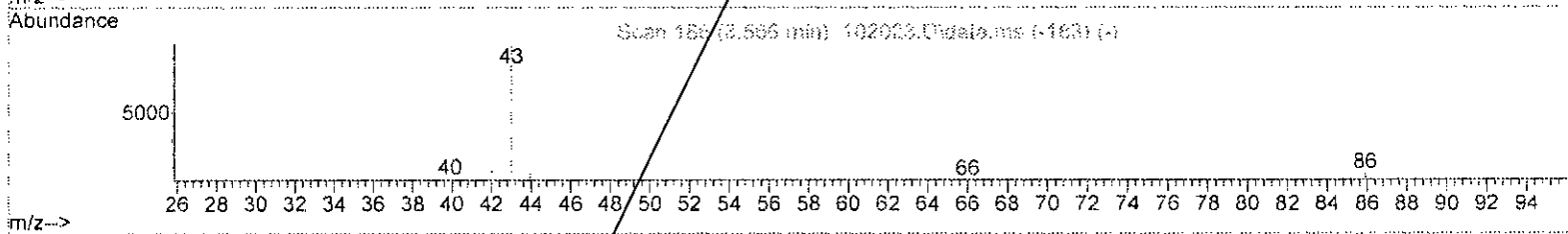
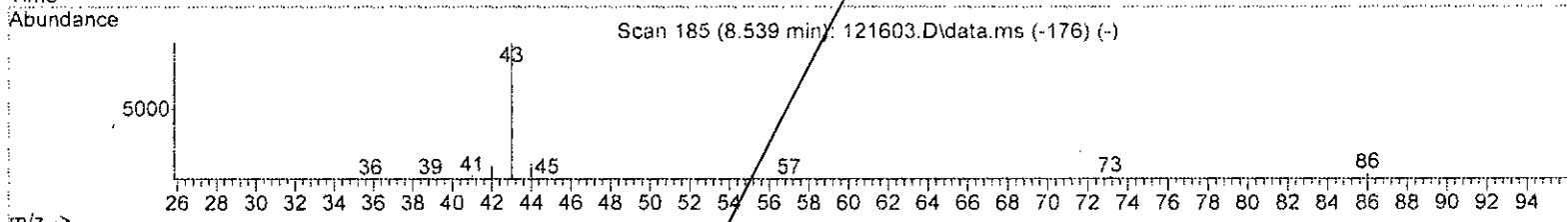
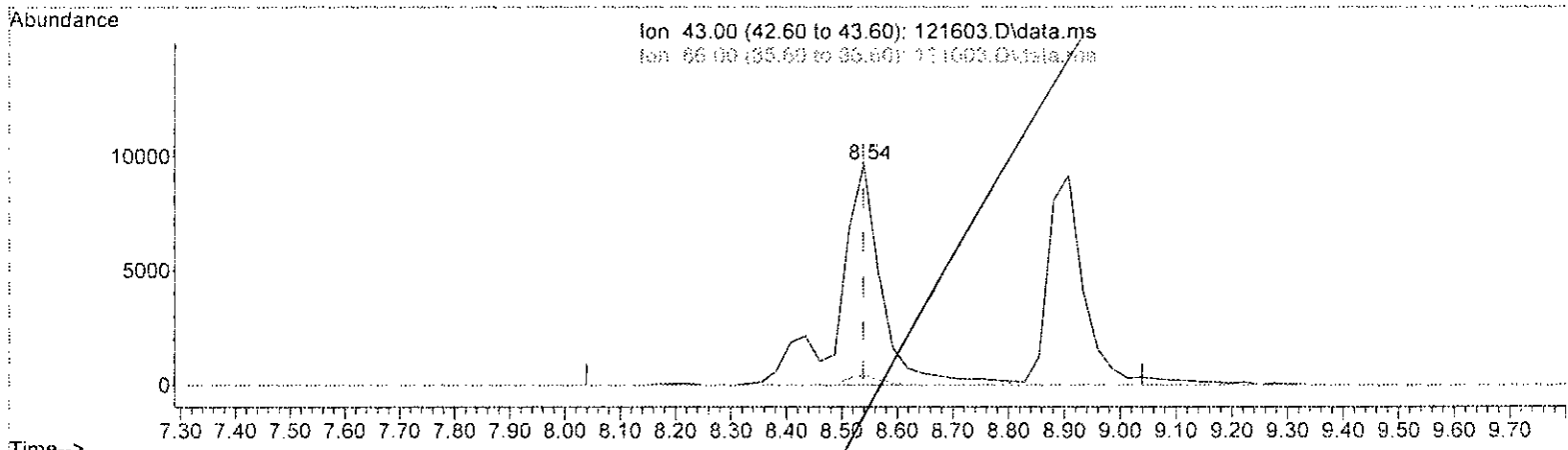
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121603.D\data.ms

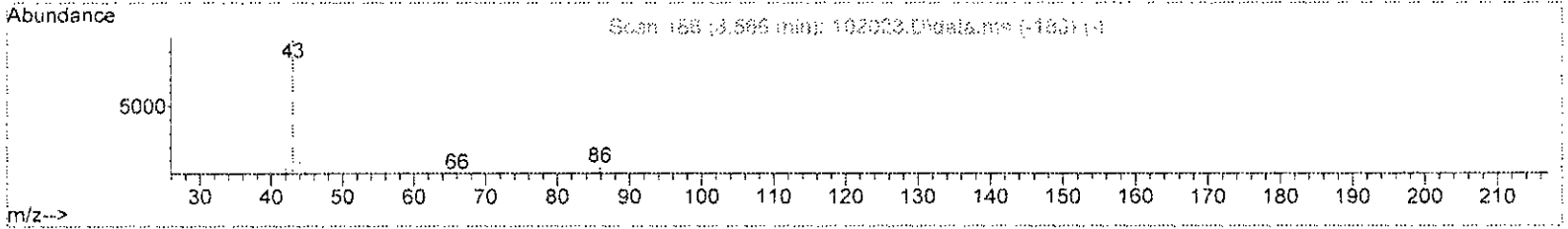
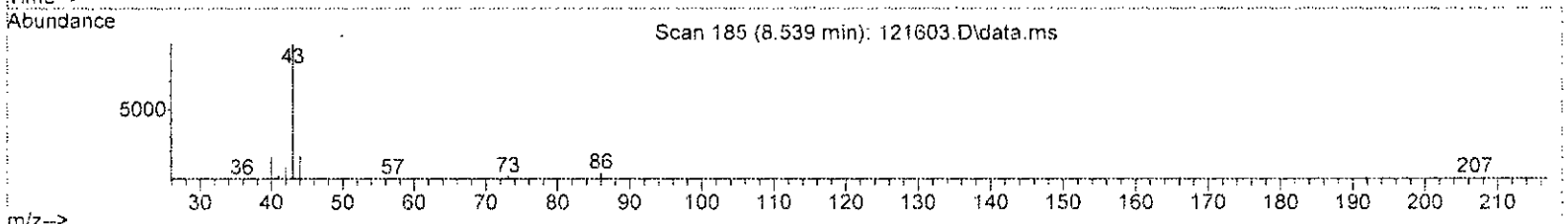
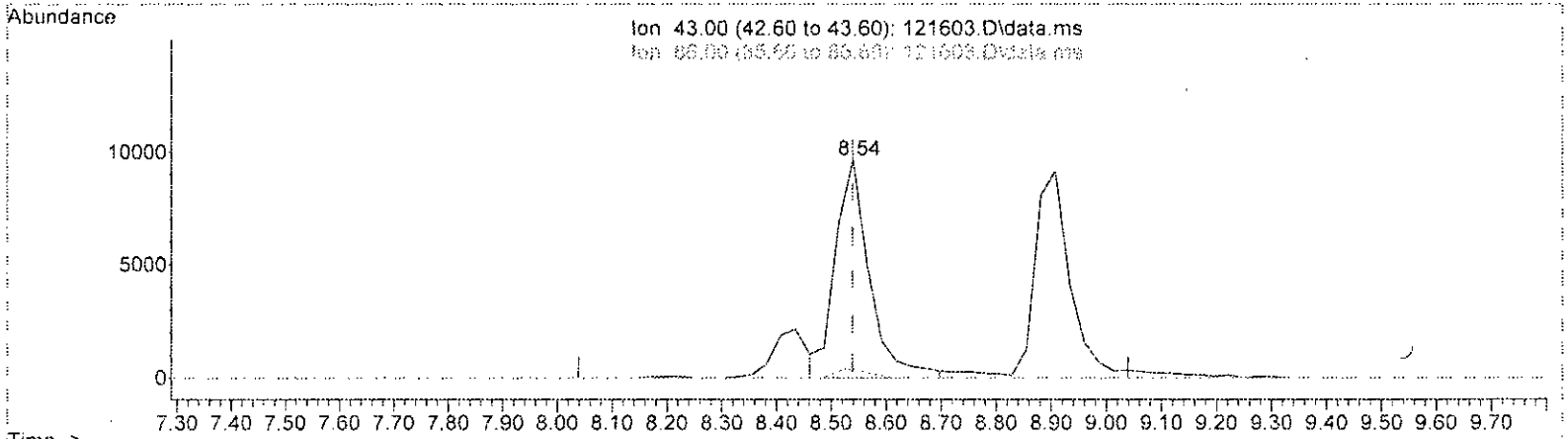
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000)	2.826	ppbv
response	52312	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	4.54
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 55 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121603.D\data.ms

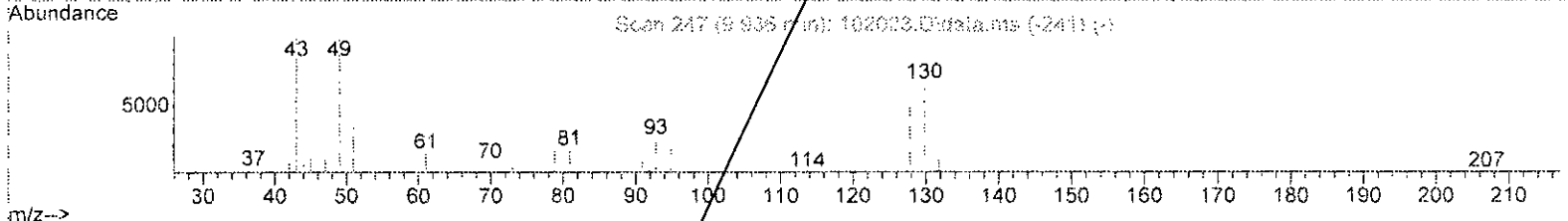
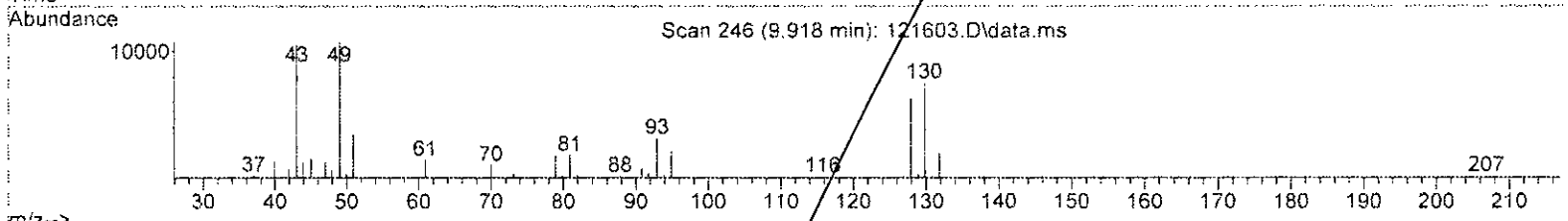
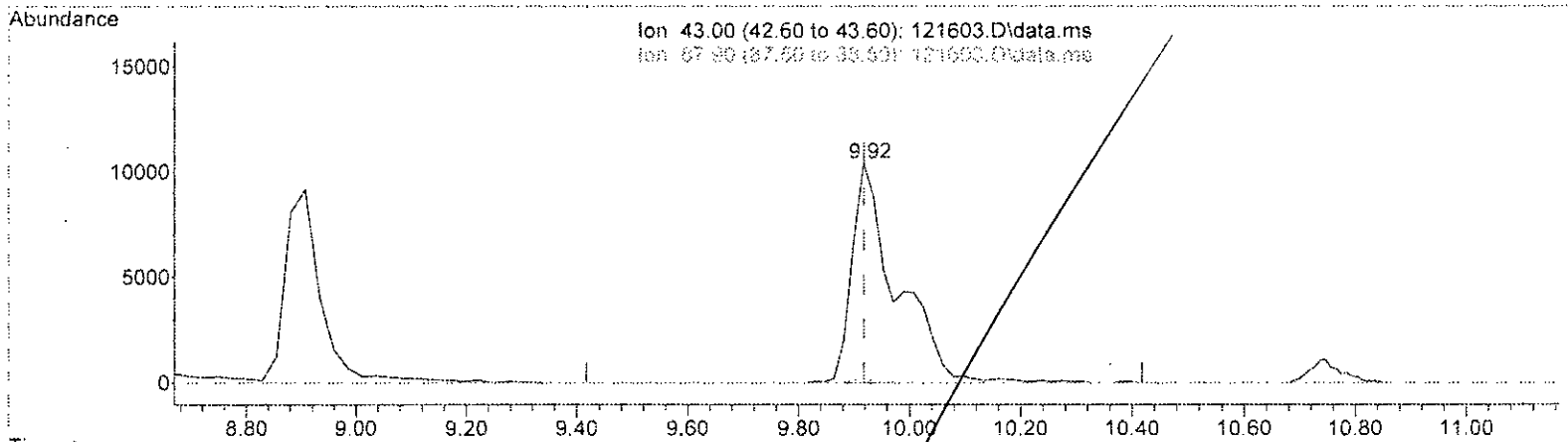
(26) Vinyl acetate (TMP)			
8.539min (+ 0.000)		2.248 ppbv m	
response	41613		
Ion	Exp%	Act%	
43.00	100.00	100.00	
86.00	4.20	4.54	
0.00	0.00	0.00	
0.00	0.00	0.00	

*U  
alcohol*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

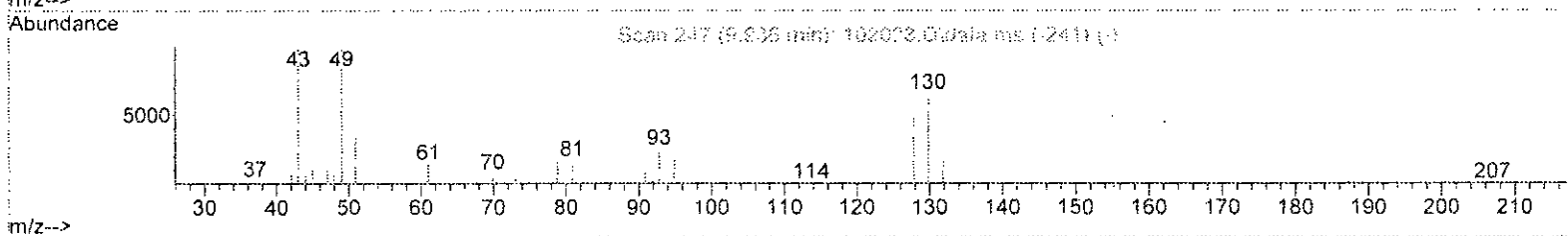
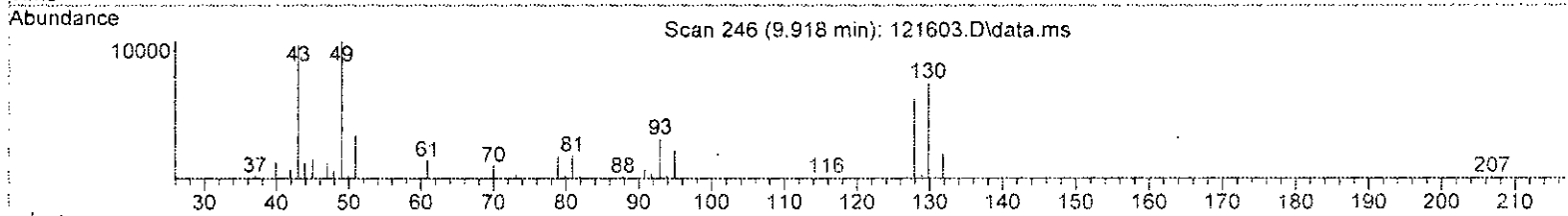
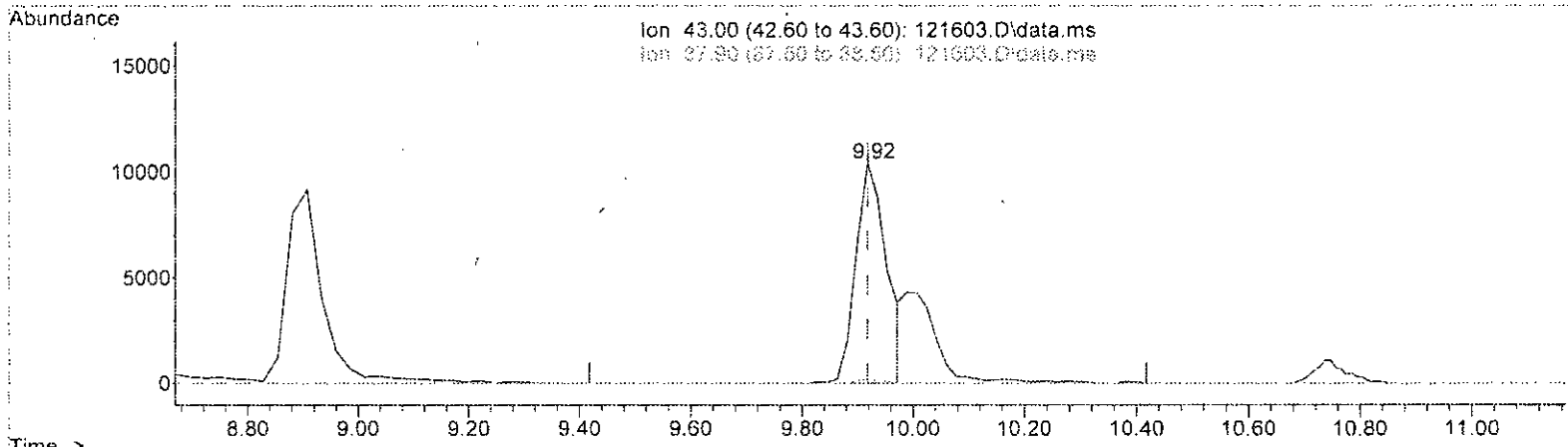
(31) Ethyl acetate (TMP)		
9.918min (-0.000) 3.103 ppbv		
response	57259	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.94#
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121603.D\data.ms

(31) Ethyl acetate (TMP)  
 9.918min (-0.000) 2.174 ppbv m

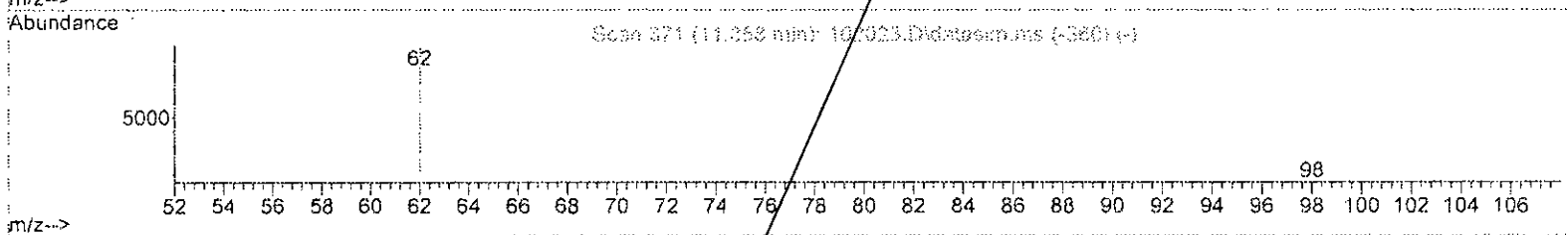
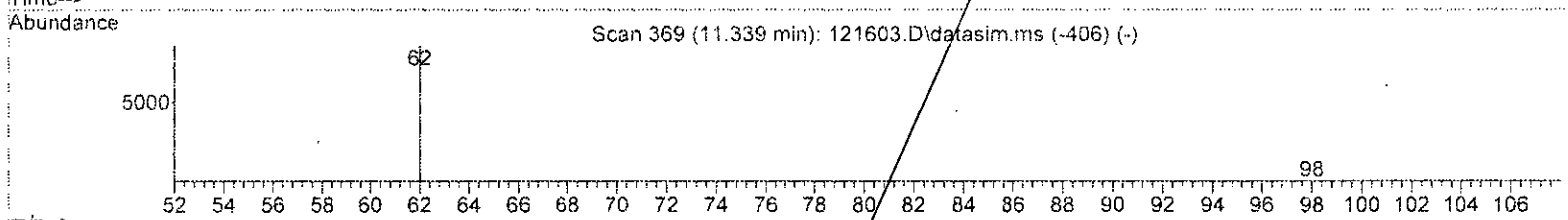
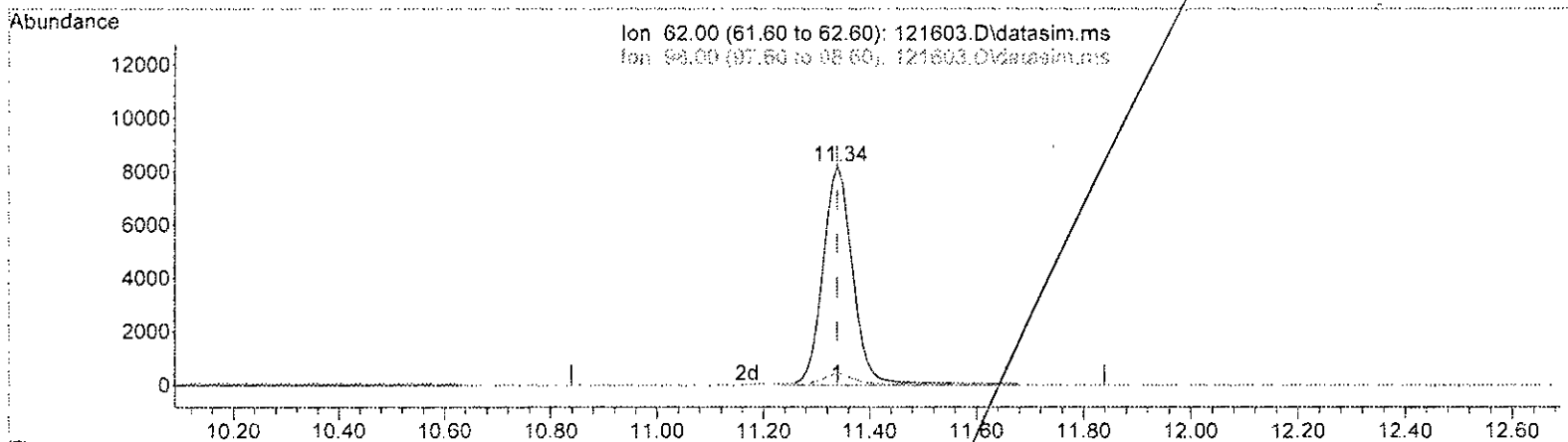
response	40109	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	1.35#
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121603.D\data.ms

(34) 1,2-Dichloroethane (EDC), (TMP)

11.339min (+ 0.000) 2.620 ppbv

response 32674

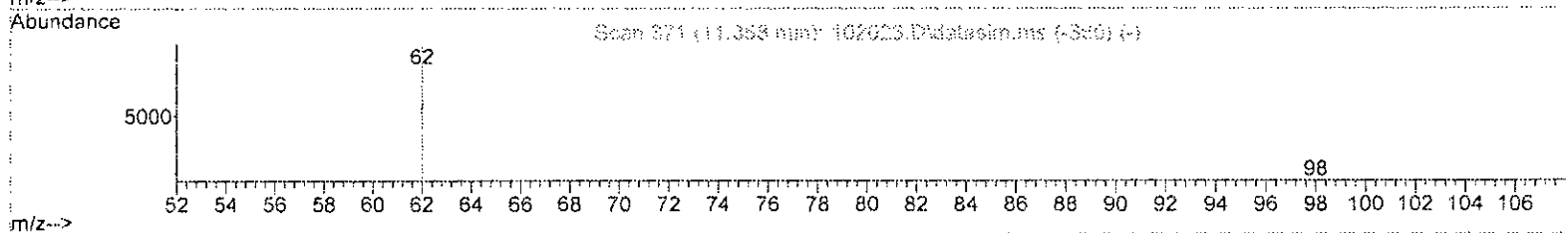
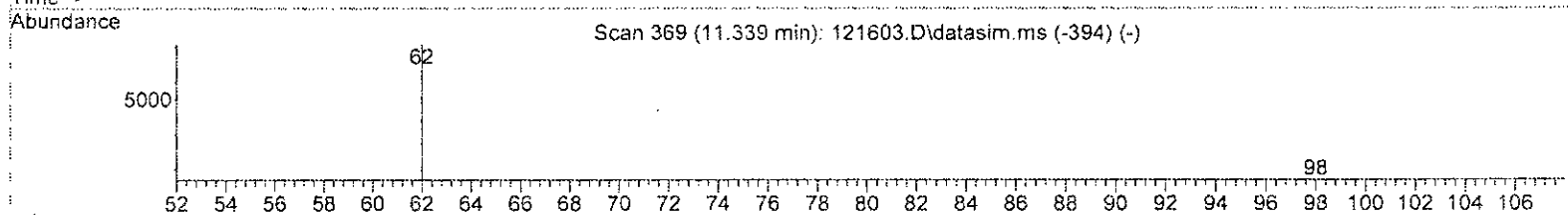
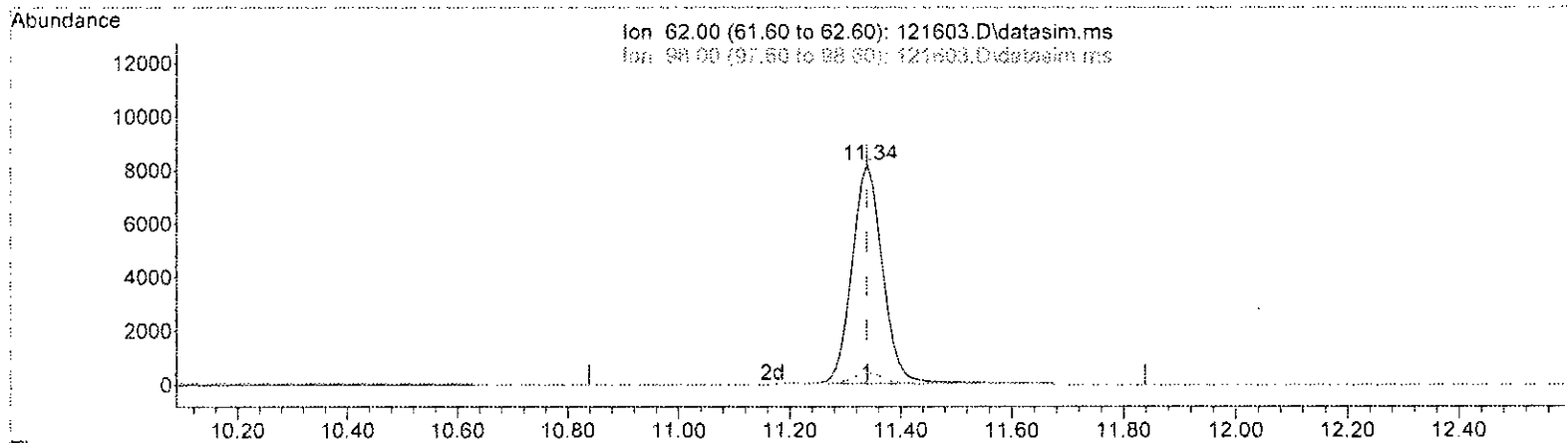
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	5.34
0.00	0.00	0.00
0.00	0.00	0.00

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 12/16/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121603.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.339min (+ 0.000) 2.506 ppbv m

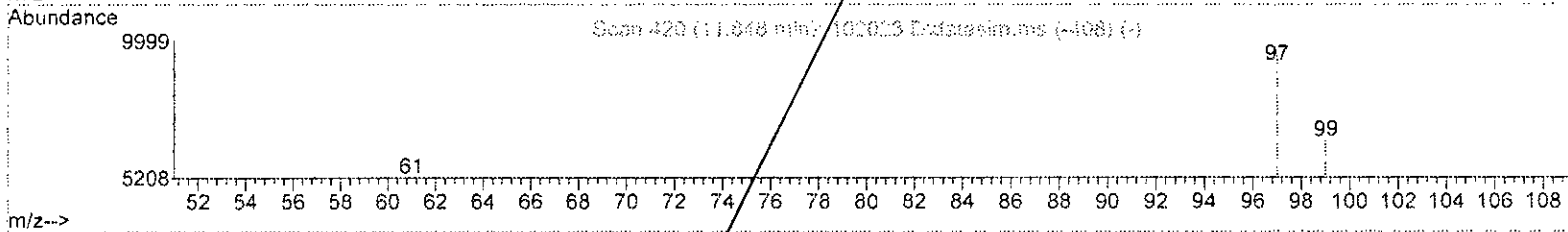
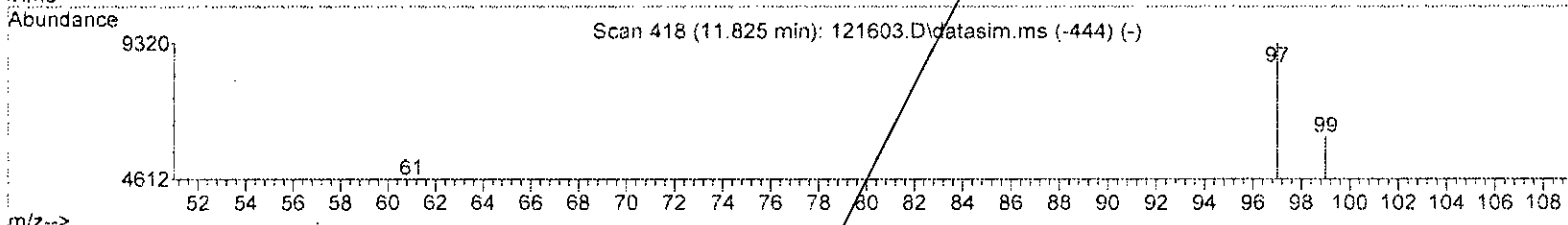
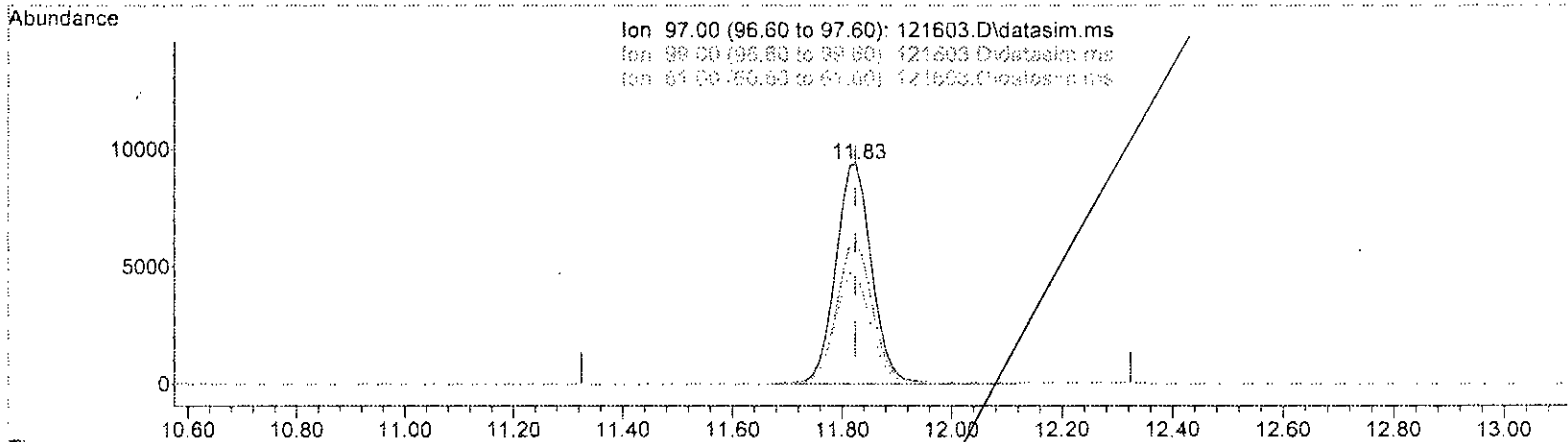
response	31274
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 5.34
0.00	0.00 0.00
0.00	0.00 0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121603.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 2.652 ppbv

response 43176

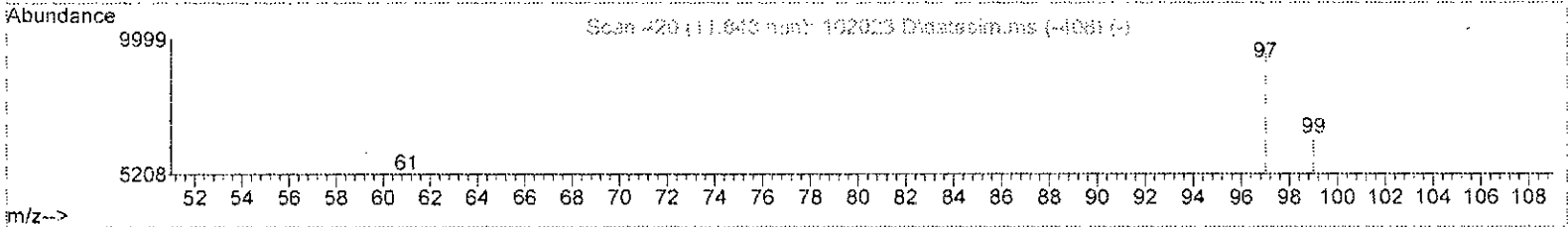
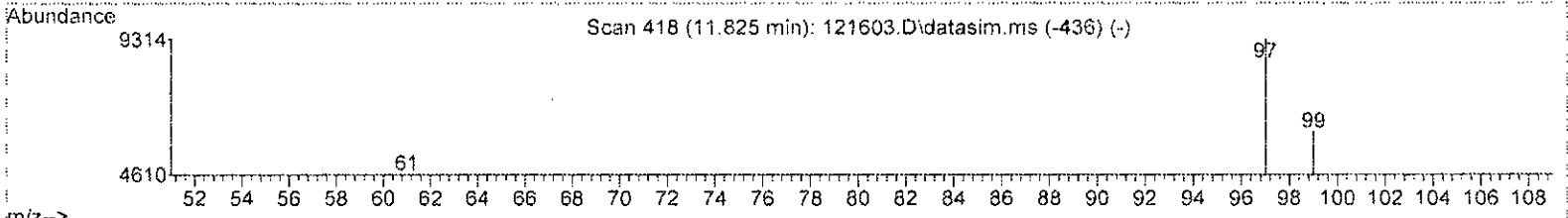
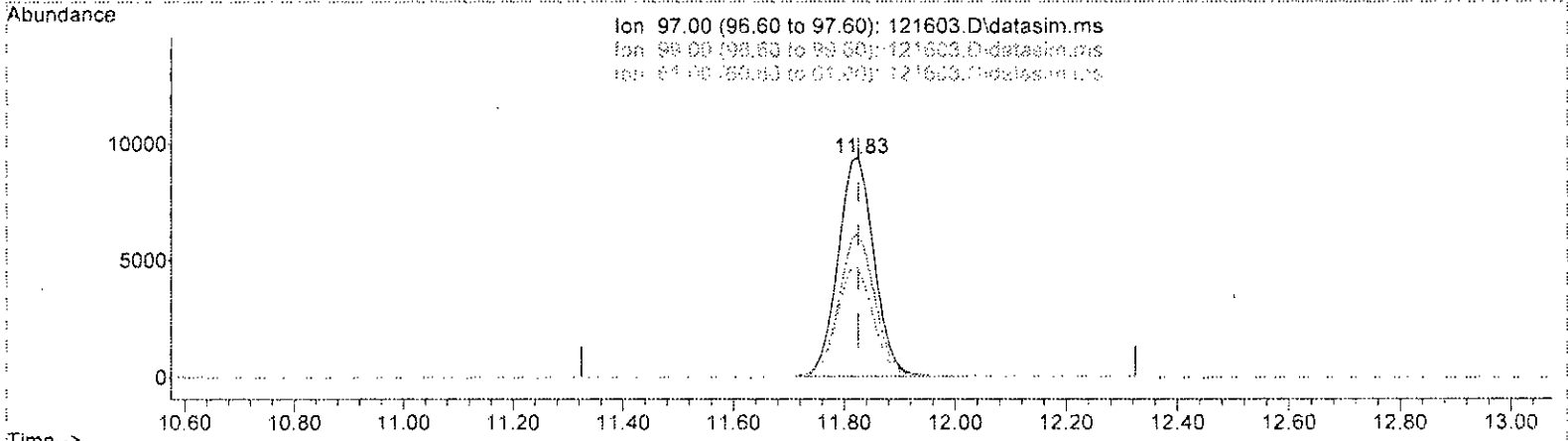
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	65.31
61.00	49.30	49.81
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121603.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 2.597 ppbv m

response	42280	
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	65.31
61.00	49.30	49.81
0.00	0.00	0.00

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Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.88	128	48699	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	202988	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	185926	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	132589	10.290	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.90%
Target Compounds						
						Qvalue
2) Propene	3.41	41	17100	2.653	ppbv	95
3) Dichlorodifluoromethane	3.49	85	49143	2.448	ppbv	96
4) Chloromethane	3.73	50	21198m	2.312	ppbv	
5) F-114	3.88	85	47777	2.326	ppbv	91
6] Vinyl chloride	4.09	62	19684	2.184	ppbv	98
7] 1,3-Butadiene	4.29	54	11740	1.982	ppbv #	82
8) Butane	4.40	43	24632	2.317	ppbv	96
9) Bromomethane	4.60	94	20345	2.262	ppbv	95
10] Chloroethane	4.84	64	7582m	2.379	ppbv	
11] Vinyl bromide	5.32	106	17980m	2.294	ppbv	
12) Ethanol	4.96	45	17053	5.280	pphv	91
13] Acrolein	5.40	56	6895m	1.942	ppbv	
14) Pentane	6.25	43	25154	2.099	ppbv	96
15) Trichlorofluoromethane	5.84	101	60029	2.578	ppbv	89
16) Acetone	5.59	58	7980	2.306	ppbv	89
17) 2-Propanol	5.80	45	35902	2.381	ppbv	92
18] 1,1-Dichloroethene	6.63	96	17689	2.208	ppbv	94
19] trans-1,2-Dichloroethene	8.10	96	17231	2.214	ppbv #	75
20) Methylene chloride	6.80	84	21587	2.997	ppbv	85
21) t-Butyl alcohol (TBA)	6.57	59	30628	2.357	ppbv #	77
22) 3-Chloropropene	6.94	41	22299	2.227	ppbv	99
23) CFC-113	7.15	101	42269	2.502	ppbv	98
24) Carbon disulfide	7.25	76	57116	2.270	ppbv	98
25) Methyl t-butyl ether (...)	8.43	73	36091	2.158	ppbv	98
26) Vinyl acetate	8.54	43	41613m	2.248	ppbv	
27] 1,1-Dichloroethane	8.36	63	39003	2.396	ppbv	98
28] cis-1,2-Dichloroethene	9.64	96	17927	2.178	ppbv	99
29) Hexane	10.01	57	20257	2.011	ppbv	89
30] Chloroform	10.08	83	47030	2.512	ppbv	96
31) Ethyl acetate	9.92	43	40109m	2.174	ppbv	
32) Tetrahydrofuran	10.74	42	18965	2.152	ppbv	97
33) 2-Butanone (MEK)	8.91	72	7176	2.381	ppbv #	75
34] 1,2-Dichloroethane (EDC)	11.34	62	31274m	2.506	ppbv	
35] 1,1,1-Trichloroethane	11.83	97	42280m	2.597	ppbv	
36] Carbon tetrachloride	12.86	117	45519	2.653	ppbv	98
37] Benzene	12.61	78	58158	2.272	ppbv	96
38) Cyclohexane	13.05	84	13178	1.980	ppbv	89
40] 1,2-Dichloropropane	13.80	63	27780	2.528	ppbv	94

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

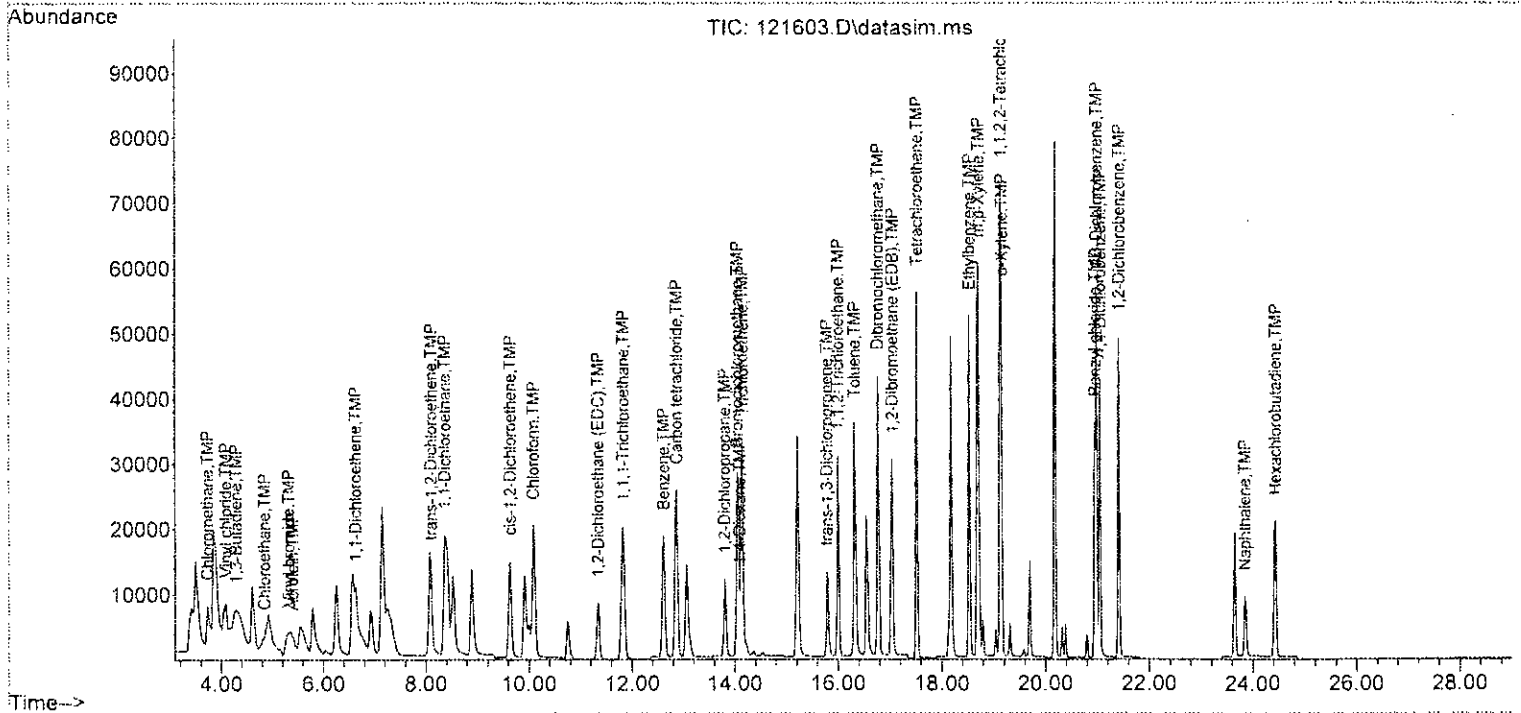
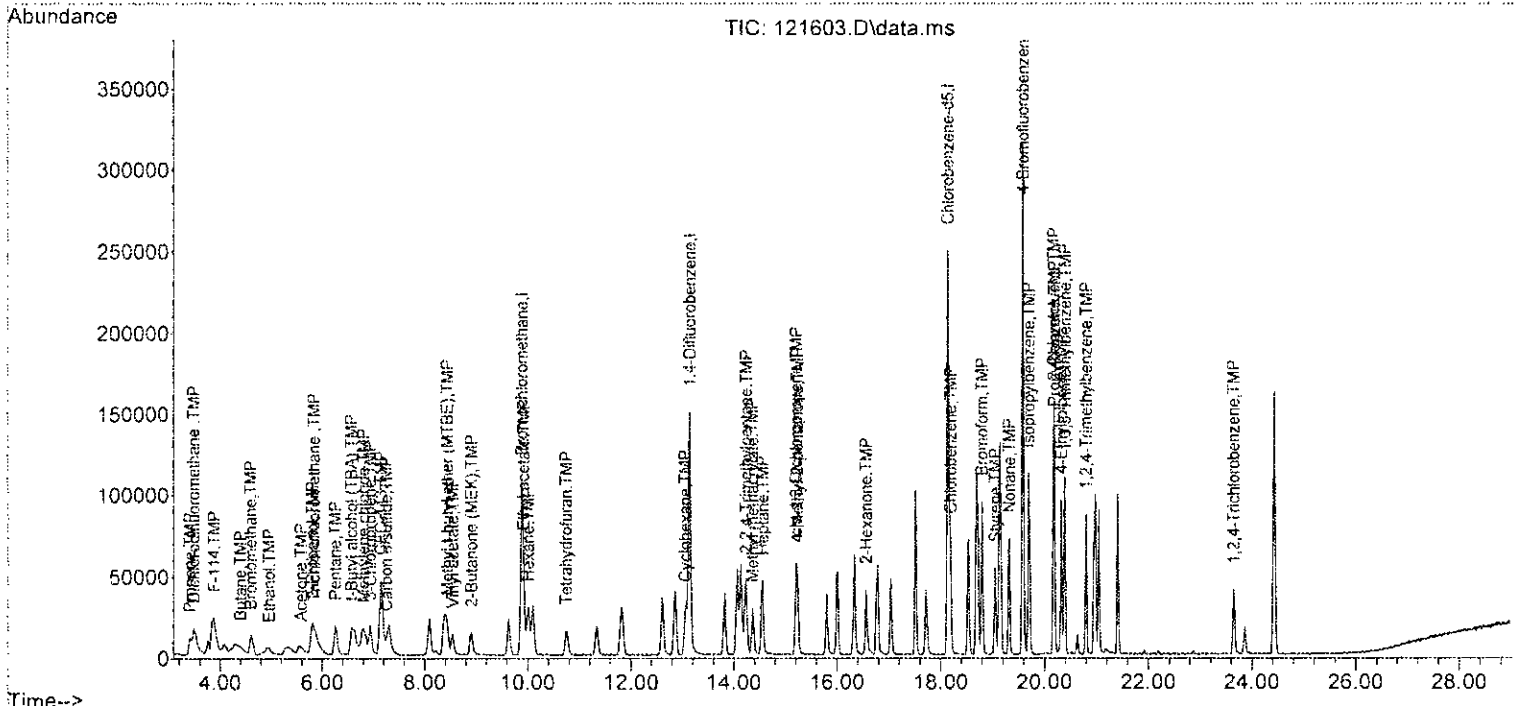
Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	10796	2.310	ppbv	79
42] 2,2,4-Trimethylpentane	14.24	57	72377	2.231	ppbv #	81
43] Methyl methacrylate	14.36	41	24157	2.452	ppbv	97
44] Heptane	14.56	43	31776	2.360	ppbv	96
45] Bromodichloromethane	14.04	83	49052	2.844	ppbv	100
46] Trichloroethene	14.14	95	30133	2.503	ppbv	93
47] cis-1,3-Dichloropropene	15.20	75	31257	2.572	ppbv	94
48] 4-Methyl-2-pentanone	15.23	100	2248	2.502	ppbv #	95
49] trans-1,3-Dichloropropene	15.78	75	30313	2.652	ppbv	84
50] Toluene	16.31	92	34181	2.382	ppbv	99
51] 1,1,2-Trichloroethane	16.00	83	28718	2.748	ppbv	90
52] 2-Hexanone	16.56	43	42515	2.475	ppbv	93
53] Tetrachloroethene	17.52	164	27165	2.732	ppbv	93
54] Dibromochloromethane	16.76	129	50114	2.868	ppbv	100
55] 1,2-Dibromoethane (EDB)	17.04	107	41859	2.716	ppbv	98
57] Chlorobenzene	18.19	112	51985	2.540	ppbv	100
58] Ethylbenzene	18.53	91	74426	2.236	ppbv	96
59] 1,1,2,2-Tetrachloroethane	19.13	83	68519	2.780	ppbv	92
60] Nonane	19.32	43	37948	2.081	ppbv	96
61] Isopropylbenzene	19.70	105	81821	2.456	ppbv	98
62] 2-Chlorotoluene	20.17	126	20158	2.420	ppbv	77
63] Propylbenzene	20.19	91	145652	2.380	ppbv	97
64] 4-Ethyltoluene	20.32	105	62944	2.101	ppbv	100
65] m,p-Xylene	18.70	106	53348	4.531	ppbv	97
66] o-Xylene	19.15	106	26828	2.347	ppbv	99
67] Styrene	19.05	104	32536	2.137	ppbv	97
68] Bromoform	18.80	173	54349	2.842	ppbv	99
70] Benzyl chloride	20.95	91	57399	2.663	ppbv	100
71] 1,3,5-Trimethylbenzene	20.39	105	70355	2.610	ppbv	99
72] 1,2,4-Trimethylbenzene	20.80	105	48895	1.979	ppbv	96
73] 1,3-Dichlorobenzene	20.98	146	47978	2.550	ppbv	99
74] 1,4-Dichlorobenzene	21.05	146	43277	2.458	ppbv	99
75] 1,2-Dichlorobenzene	21.41	146	49591	2.604	ppbv	94
76] 1,2,4-Trichlorobenzene	23.64	180	19919	1.744	ppbv	96
77] Naphthalene	23.84	128	22106	1.576	ppbv	97
78] Hexachlorobutadiene	24.44	225	53977	2.779	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCM57\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCM57 Methods\1115T015ss7.M  
 Quant Title : T0-15 55 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	81	0.00
2 TMP Propene	2.500	2.653	-6.1	80	0.00
3 TMP Dichlorodifluoromethane	2.500	2.448	2.1	76	0.00
4 TMP Chloromethane	2.500	2.312	7.5	74	0.00
5 TMP F-114	2.500	2.326	7.0	76	0.00
6 TMP Vinyl chloride	2.500	2.184	12.6	72	0.00
7 TMP 1,3-Butadiene	2.500	1.982	20.7	66	0.00
8 TMP Butane	2.500	2.317	7.3	71	0.08
9 TMP Bromomethane	2.500	2.262	9.5	73	0.00
10 TMP Chloroethane	2.500	2.379	4.8	72	0.00
11 TMP Vinyl bromide	2.500	2.294	8.2	71	0.00
12 TMP Ethanol	2.500	5.280	-111.2#	158	0.00
13 TMP Acrolein	2.500	1.942	22.3	70	-0.02
14 TMP Pentane	2.500	2.099	16.0	64	0.00
15 TMP Trichlorofluoromethane	2.500	2.578	-3.1	77	0.00
16 TMP Acetone	2.500	2.306	7.8	68	0.02
17 TMP 2-Propanol	2.500	2.381	4.8	74	0.02
18 TMP 1,1-Dichloroethene	2.500	2.208	11.7	73	0.00
19 TMP trans-1,2-Dichloroethene	2.500	2.214	11.4	71	0.00
20 TMP Methylene chloride	2.500	2.997	-19.9	88	0.00
21 TMP t-Butyl alcohol (TBA)	2.500	2.357	5.7	77	0.00
22 TMP 3-Chloropropene	2.500	2.227	10.9	71	0.00
23 TMP CFC-113	2.500	2.502	-0.1	75	0.00
24 TMP Carbon disulfide	2.500	2.270	9.2	65	-0.03
25 TMP Methyl t-butyl ether (MTBE)	2.500	2.158	13.7	66	0.00
26 TMP Vinyl acetate	2.500	2.248	10.1	68	0.00
27 TMP 1,1-Dichloroethane	2.500	2.396	4.2	74	0.00
28 TMP cis-1,2-Dichloroethene	2.500	2.178	12.9	70	0.00
29 TMP Hexane	2.500	2.011	19.6	64	0.00
30 TMP Chloroform	2.500	2.512	-0.5	77	-0.02
31 TMP Ethyl acetate	2.500	2.174	13.0	69	0.00
32 TMP Tetrahydrofuran	2.500	2.152	13.9	71	-0.01
33 TMP 2-Butanone (MEK)	2.500	2.381	4.8	72	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.500	2.506	-0.2	78	0.00
35 TMP 1,1,1-Trichloroethane	2.500	2.597	-3.9	76	0.00
36 TMP Carbon tetrachloride	2.500	2.653	-6.1	80	0.00
37 TMP Benzene	2.500	2.272	9.1	70	0.00
38 TMP Cyclohexane	2.500	1.980	20.8	60	-0.02
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	73	0.00
40 TMP 1,2-Dichloropropane	2.500	2.528	-1.1	73	0.00
41 TMP 1,4-Dioxane	2.500	2.310	7.6	70	0.00
42 TMP 2,2,4-Trimethylpentane	2.500	2.231	10.8	62	0.00
43 TMP Methyl methacrylate	2.500	2.452	1.9	67	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	2.500	2.360	5.6	66	0.00
45 TMP Bromodichloromethane	2.500	2.844	-13.8	77	0.00
46 TMP Trichloroethene	2.500	2.503	-0.1	75	0.00
47 TMP cis-1,3-Dichloropropene	2.500	2.572	-2.9	69	0.00
48 TMP 4-Methyl-2-pentanone	2.500	2.502	-0.1	71	0.00
49 TMP trans-1,3-Dichloropropene	2.500	2.652	-6.1	72	0.00
50 TMP Toluene	2.500	2.382	4.7	67	0.00
51 TMP 1,1,2-Trichloroethane	2.500	2.748	-9.9	75	0.00
52 TMP 2-Hexanone	2.500	2.475	1.0	71	0.00
53 TMP Tetrachloroethene	2.500	2.732	-9.3	76	0.00
54 TMP Dibromochloromethane	2.500	2.868	-14.7	79	0.00
55 TMP 1,2-Dibromoethane (EDB)	2.500	2.716	-8.6	75	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	76	0.00
57 TMP Chlorobenzene	2.500	2.540	-1.6	74	0.00
58 TMP Ethylbenzene	2.500	2.236	10.6	65	0.00
59 TMP 1,1,2,2-Tetrachloroethane	2.500	2.780	-11.2	79	0.00
60 TMP Nonane	2.500	2.081	16.8	59	0.02
61 TMP Isopropylbenzene	2.500	2.456	1.8	67	0.00
62 TMP 2-Chlorotoluene	2.500	2.420	3.2	68	0.00
63 TMP Propylbenzene	2.500	2.380	4.8	64	0.00
64 TMP 4-Ethyltoluene	2.500	2.101	16.0	62	0.00
65 TMP m,p-Xylene	5.000	4.531	9.4	65	0.00
66 TMP o-Xylene	2.500	2.347	6.1	67	0.00
67 TMP Styrene	2.500	2.137	14.5	62	0.00
68 TMP Bromoform	2.500	2.842	-13.7	81	0.00
69 S 4-Bromofluorobenzene	10.000	10.290	-2.9	73	0.00
70 TMP Benzyl chloride	2.500	2.663	-6.5	77	0.00
71 TMP 1,3,5-Trimethylbenzene	2.500	2.610	-4.4	70	0.00
72 TMP 1,2,4-Trimethylbenzene	2.500	1.979	20.8	59	0.00
73 TMP 1,3-Dichlorobenzene	2.500	2.550	-2.0	72	0.00
74 TMP 1,4-Dichlorobenzene	2.500	2.458	1.7	71	0.00
75 TMP 1,2-Dichlorobenzene	2.500	2.604	-4.2	73	0.00
76 TMP 1,2,4-Trichlorobenzene	2.500	1.744	30.2#	60	0.00
77 TMP Naphthalene	2.500	1.576	37.0#	51	0.00
78 TMP Hexachlorobutadiene	2.500	2.779	-11.2	83	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev. 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	81	0.00
2 TMP Propene	1.556	1.405	9.7	80	0.00
3 TMP Dichlorodifluoromethane	4.123	4.036	2.1	76	0.00
4 TMP Chloromethane	1.882	1.741	7.5	74	0.00
5 TMP F-114	4.217	3.924	6.9	76	0.00
6 TMP Vinyl chloride	1.851	1.617	12.6	72	0.00
7 TMP 1,3-Butadiene	1.216	0.964	20.7	66	0.00
8 TMP Butane	2.183	2.023	7.3	71	0.08
9 TMP Bromomethane	1.847	1.671	9.5	73	0.00
10 TMP Chloroethane	0.655	0.623	4.9	72	0.00
11 TMP Vinyl bromide	1.609	1.477	8.2	71	0.00
12 TMP Ethanol	0.663	1.401	-111.3#	158#	0.00
13 TMP Acrolein	0.729	0.566	22.4	70	-0.02
14 TMP Pentane	2.461	2.066	16.1	64	0.00
15 TMP Trichlorofluoromethane	4.781	4.931	-3.1	77	0.00
16 TMP Acetone	0.710	0.655	7.7	68	0.02
17 TMP 2-Propanol	3.096	2.949	4.7	74	0.02
18 TMP 1,1-Dichloroethene	1.645	1.453	11.7	73	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.415	11.5	71	0.00
20 TMP Methylene chloride	1.479	1.773	-19.9	88	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.516	5.7	77	0.00
22 TMP 3-Chloropropene	2.056	1.832	10.9	71	0.00
23 TMP CFC-113	3.469	3.472	-0.1	75	0.00
24 TMP Carbon disulfide	5.167	4.691	9.2	65	-0.03
25 TMP Methyl t-butyl ether (MTBE)	3.434	2.964	13.7	66	0.00
26 TMP Vinyl acetate	3.801	3.418	10.1	68	0.00
27 TMP 1,1-Dichloroethane	3.342	3.204	4.1	74	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.472	12.9	70	0.00
29 TMP Hexane	2.068	1.664	19.5	64	0.00
30 TMP Chloroform	4.060	3.863	4.9	77	-0.02
31 TMP Ethyl acetate	3.789	3.294	13.1	69	0.00
32 TMP Tetrahydrofuran	1.809	1.558	13.9	71	-0.01
33 TMP 2-Butanone (MEK)	0.619	0.589	4.8	72	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.569	4.4	78	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.473	-3.9	76	0.00
36 TMP Carbon tetrachloride	3.523	3.739	-6.1	80	0.00
37 TMP Benzene	5.688	4.777	16.0	70	0.00
38 TMP Cyclohexane	1.367	1.082	20.8	60	-0.02
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	73	0.00
40 TMP 1,2-Dichloropropane	0.541	0.547	-1.1	73	0.00
41 TMP 1,4-Dioxane	0.230	0.213	7.4	70	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.426	10.8	62	0.00
43 TMP Methyl methacrylate	0.485	0.476	1.9	67	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.626	5.6	66	0.00
45 TMP Bromodichloromethane	0.850	0.967	-13.8	77	0.00
46 TMP Trichloroethene	0.593	0.594	-0.2	75	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.616	-2.8	69	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.044	0.0	71	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.597	-6.0	72	0.00
50 TMP Toluene	0.707	0.674	4.7	67	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.566	-2.9	75	0.00
52 TMP 2-Hexanone	0.846	0.838	0.9	71	0.00
53 TMP Tetrachloroethene	0.490	0.535	-9.2	76	0.00
54 TMP Dibromochloromethane	0.861	0.988	-14.8	79	0.00
55 TMP 1,2-Dibromoethane (EOB)	0.824	0.825	-0.1	75	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	76	0.00
57 TMP Chlorobenzene	1.101	1.118	-1.5	74	0.00
58 TMP Ethylbenzene	1.968	1.601	18.6	65	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.474	-5.7	79	0.00
60 TMP Nonane	0.981	0.816	16.8	59#	0.02
61 TMP Isopropylbenzene	1.792	1.760	1.8	67	0.00
62 TMP 2-Chlorotoluene	0.448	0.434	3.1	68	0.00
63 TMP Propylbenzene	3.292	3.134	4.8	64	0.00
64 TMP 4-Ethyltoluene	1.611	1.354	16.0	62	0.00
65 TMP m,p-Xylene	0.633	0.574	9.3	65	0.00
66 TMP o-Xylene	0.615	0.577	6.2	67	0.00
67 TMP Styrene	0.819	0.700	14.5	62	0.00
68 TMP Bromoform	1.028	1.169	-13.7	81	0.00
69 S 4-Bromofluorobenzene	0.693	0.713	-2.9	73	0.00
70 TMP Benzyl chloride	0.987	1.235	-25.1	77	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.514	-4.4	70	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.052	15.6	59#	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.032	-2.0	72	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.931	1.7	71	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.067	-4.2	73	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.429	31.5#	60	0.00
77 TMP Naphthalene	1.132	0.476	58.0#	51#	0.00
78 TMP Hexachlorobutadiene	1.045	1.161	-11.1	83	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

**EPA TO-15**  
**Quality Assurance Data**



Spike Recovery and RPD Summary Report - WATER

Method : D:\GCMS7 Methods\1115TO15ss7.M (RTE Integrator)  
 Title : TO-15 SS method  
 Last Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration

Non-Spiked Sample: 121611.D

Spike Sample	Spike Duplicate Sample
File ID : 121603.D	121603.D
Sample : 02-2970 lcs/ 2.5 ppbv 68-40a	02-2970 lcs/ 2.5 ppbv 68-40a
Acq Time: 16 Dec 2022 3:55 pm	16 Dec 2022 3:55 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Propene	0.0	3	3	3	106	106	0	20	70-130
Dichlorodifluorometh	0.0	3	2	2	98	98	0	20	70-130
Chloromethane	0.0	3	2	2	92	92	0	20	70-130
F-114	0.0	3	2	2	93	93	0	20	70-130
Vinyl chloride	0.0	3	2	2	87	87	0	20	70-130
1,3-Butadiene	0.0	3	2	2	79	79	0	20	70-130
Butane	0.9	3	2	2	55#	55#	0	20	70-130
Bromomethane	0.0	3	2	2	90	90	0	20	70-130
Chloroethane	0.0	3	2	2	95	95	0	20	70-130
Vinyl bromide	0.0	3	2	2	92	92	0	20	70-130
Ethanol	0.0	3	5	5	211#	211#	0	20	70-130
Acrolein	0.0	3	2	2	78	78	0	20	70-130
Pentane	0.1	3	2	2	80	80	0	20	70-130
Trichlorofluorometha	0.0	3	3	3	103	103	0	20	70-130
Acetone	0.2	3	2	2	84	84	0	20	70-130
2-Propanol	0.0	3	2	2	95	95	0	20	70-130
1,1-Dichloroethene	0.0	3	2	2	88	88	0	20	70-130
trans-1,2-Dichloroet	0.0	3	2	2	89	89	0	20	70-130
Methylene chloride	0.1	3	3	3	117	117	0	20	70-130
t-Butyl alcohol (TBA	0.0	3	2	2	94	94	0	20	70-130
3-Chloropropene	0.0	3	2	2	89	89	0	20	70-130
CFC-113	0.0	3	3	3	100	100	0	20	70-130
Carbon disulfide	0.0	3	2	2	89	89	0	20	70-130
Methyl t-butyl ether	0.0	3	2	2	86	86	0	20	70-130
Vinyl acetate	0.0	3	2	2	89	89	0	20	70-130
1,1-Dichloroethane	0.0	3	2	2	96	96	0	20	70-130
cis-1,2-Dichloroethe	0.0	3	2	2	87	87	0	20	70-130
Hexane	0.0	3	2	2	80	80	0	20	70-130
Chloroform	0.0	3	3	3	100	100	0	20	70-130
Ethyl acetate	0.0	3	2	2	87	87	0	20	70-130
Tetrahydrofuran	0.0	3	2	2	86	86	0	20	70-130
2-Butanone (MEK)	0.0	3	2	2	95	95	0	20	70-130
1,2-Dichloroethane (	0.0	3	3	3	100	100	0	20	70-130
1,1,1-Trichloroethan	0.0	3	3	3	104	104	0	20	70-130
Carbon tetrachloride	0.0	3	3	3	106	106	0	20	70-130
Benzene	0.0	3	2	2	91	91	0	20	70-130

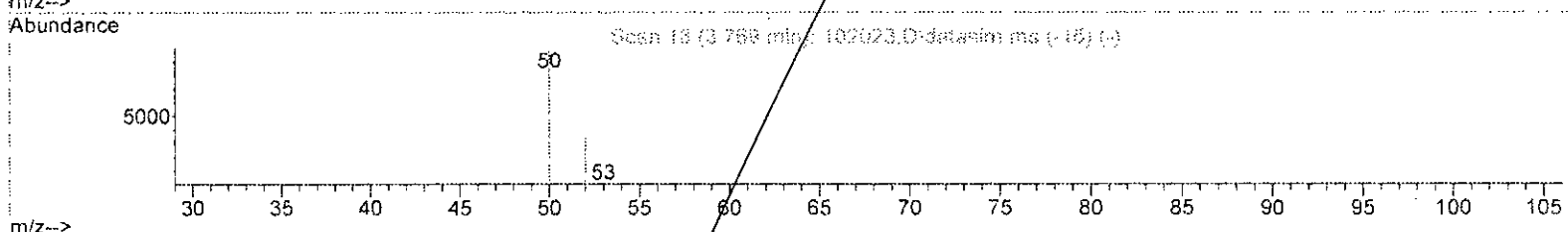
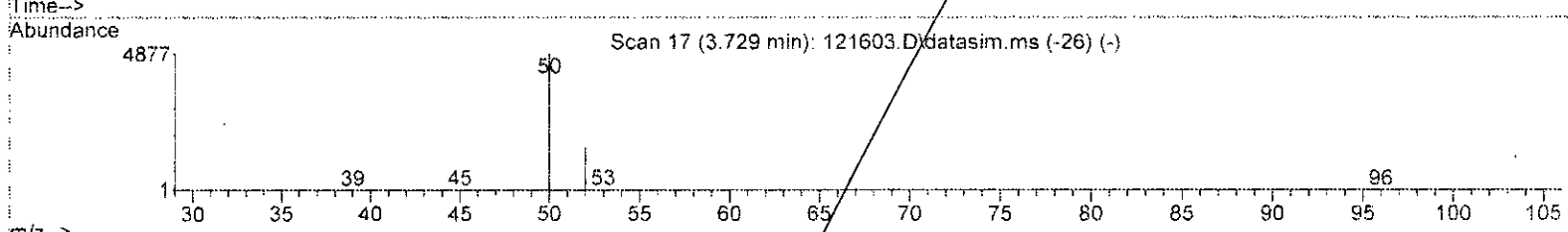
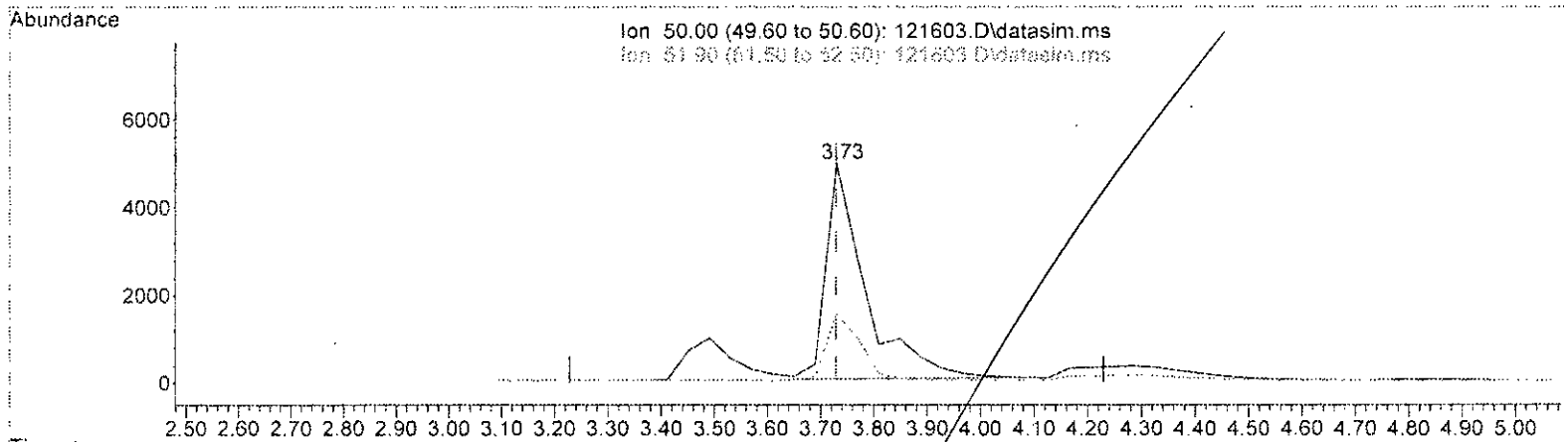
Cyclohexane	0.0	3	2	2	79	79	0	20	70-130
1,2-Dichloropropane	0.0	3	3	3	101	101	0	20	70-130
1,4-Dioxane	0.0	3	2	2	92	92	0	20	70-130
2,2,4-Trimethylpenta	0.0	3	2	2	89	89	0	20	70-130
Methyl methacrylate	0.0	3	2	2	98	98	0	20	70-130
Heptane	0.0	3	2	2	94	94	0	20	70-130
Bromodichloromethane	0.0	3	3	3	114	114	0	20	70-130
Trichloroethene	0.0	3	3	3	100	100	0	20	70-130
cis-1,3-Dichloroprop	0.0	3	3	3	103	103	0	20	70-130
4-Methyl-2-pentanone	0.0	3	3	3	100	100	0	20	70-130
trans-1,3-Dichloropr	0.0	3	3	3	106	106	0	20	70-130
Toluene	0.1	3	2	2	92	92	0	20	70-130
1,1,2-Trichloroethan	0.0	3	3	3	110	110	0	20	70-130
2-Hexanone	0.0	3	2	2	99	99	0	20	70-130
Tetrachloroethene	0.0	3	3	3	108	108	0	20	70-130
Dibromochloromethane	0.0	3	3	3	115	115	0	20	70-130
1,2-Dibromoethane (E	0.0	3	3	3	109	109	0	20	70-130
Chlorobenzene	0.0	3	3	3	102	102	0	20	70-130
Ethylbenzene	0.0	3	2	2	89	89	0	20	70-130
1,1,2,2-Tetrachloroe	0.0	3	3	3	111	111	0	20	70-130
Nonane	0.0	3	2	2	83	83	0	20	70-130
Isopropylbenzene	0.0	3	2	2	98	98	0	20	70-130
2-Chlorotoluene	0.0	3	2	2	97	97	0	20	70-130
Propylbenzene	0.0	3	2	2	95	95	0	20	70-130
4-Ethyltoluene	0.0	3	2	2	84	84	0	20	70-130
m,p-Xylene	0.0	5	5	5	91	91	0	20	70-130
o-Xylene	0.0	3	2	2	94	94	0	20	70-130
Styrene	0.0	3	2	2	85	85	0	20	70-130
Bromoform	0.0	3	3	3	114	114	0	20	70-130
Benzyl chloride	0.0	3	3	3	107	107	0	20	70-130
1,3,5-Trimethylbenze	0.0	3	3	3	104	104	0	20	70-130
1,2,4-Trimethylbenze	0.1	3	2	2	76	76	0	20	70-130
1,3-Dichlorobenzene	0.0	3	3	3	102	102	0	20	70-130
1,4-Dichlorobenzene	0.0	3	2	2	98	98	0	20	70-130
1,2-Dichlorobenzene	0.0	3	3	3	104	104	0	20	70-130
1,2,4-Trichlorobenze	0.0	3	2	2	70#	70#	0	20	70-130
Naphthalene	0.0	3	2	2	63#	63#	0	20	70-130
Hexachlorobutadiene	0.0	3	3	3	111	111	0	20	70-130

# - Fails Limit Check

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

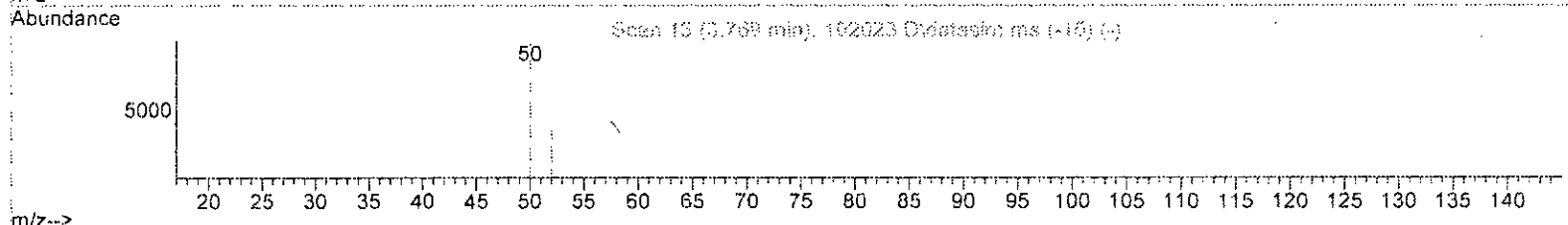
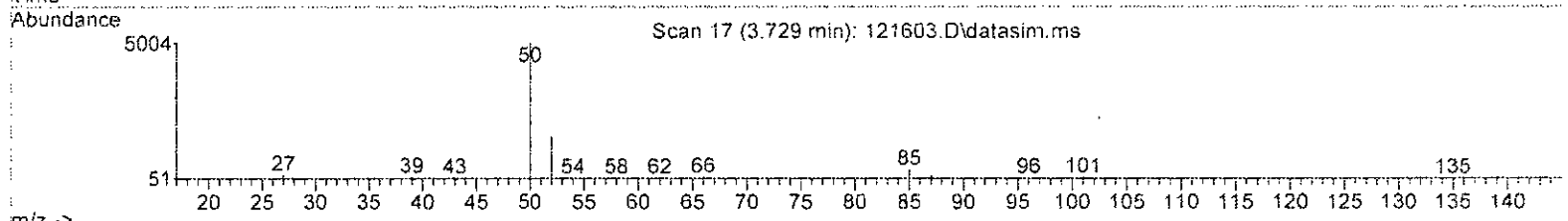
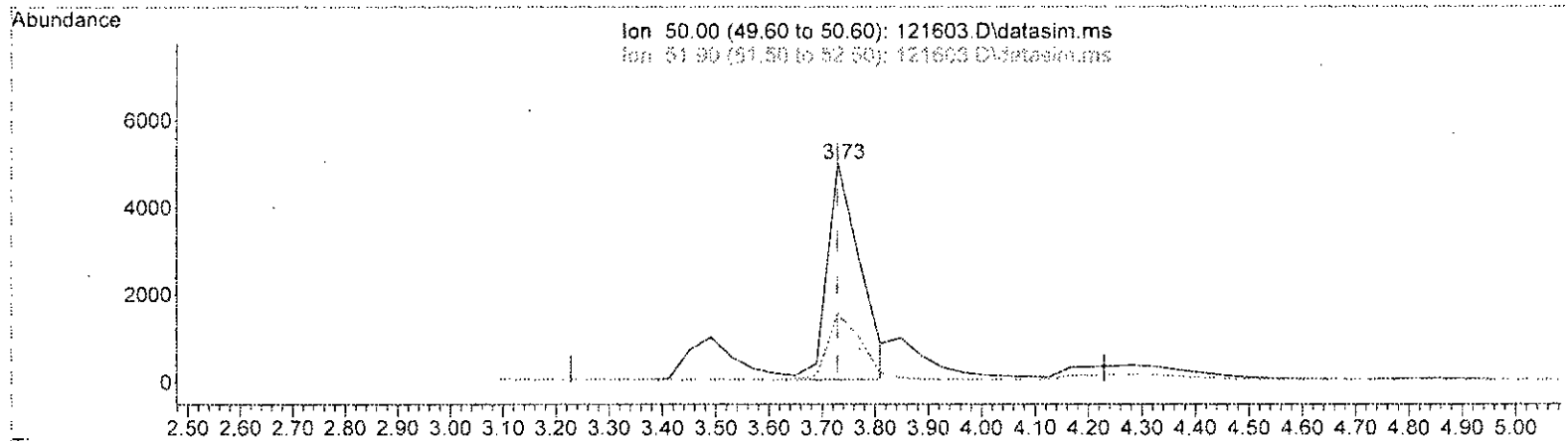
(4) Chloromethane (TMP)		
3.729min (+ 0.000)	2.739 ppbv	
response	25108	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	30.71
0.00	0.00	0.00
0.00	0.00	0.00

*h*  
*12/16/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(4) Chloromethane (TMP)

3.729min (+ 0.000) 2.312 ppbv m

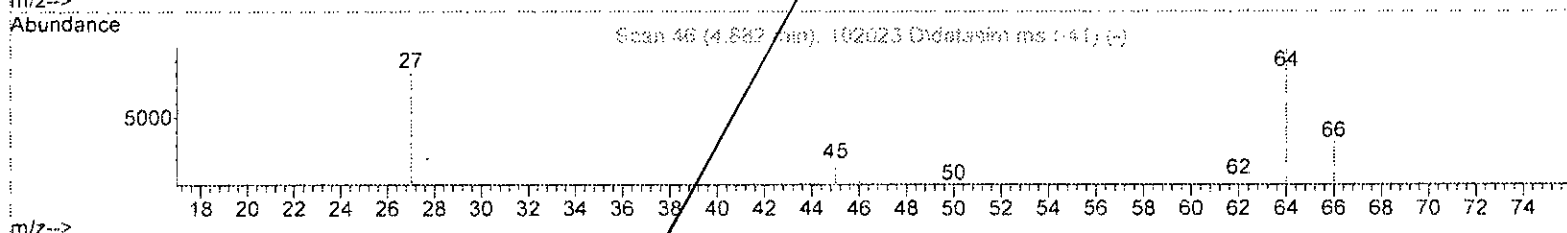
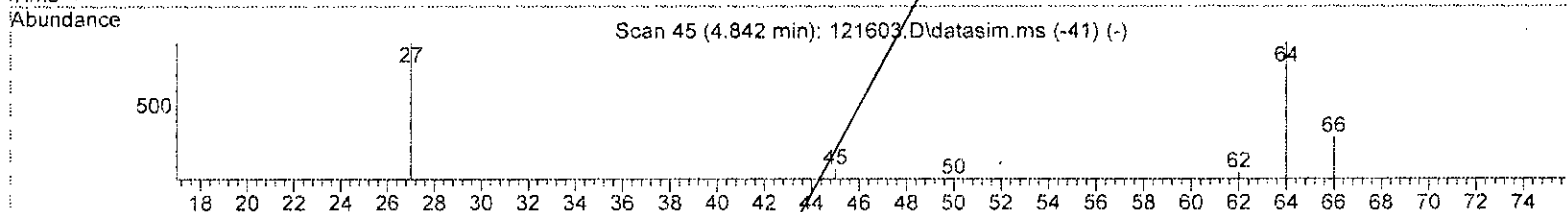
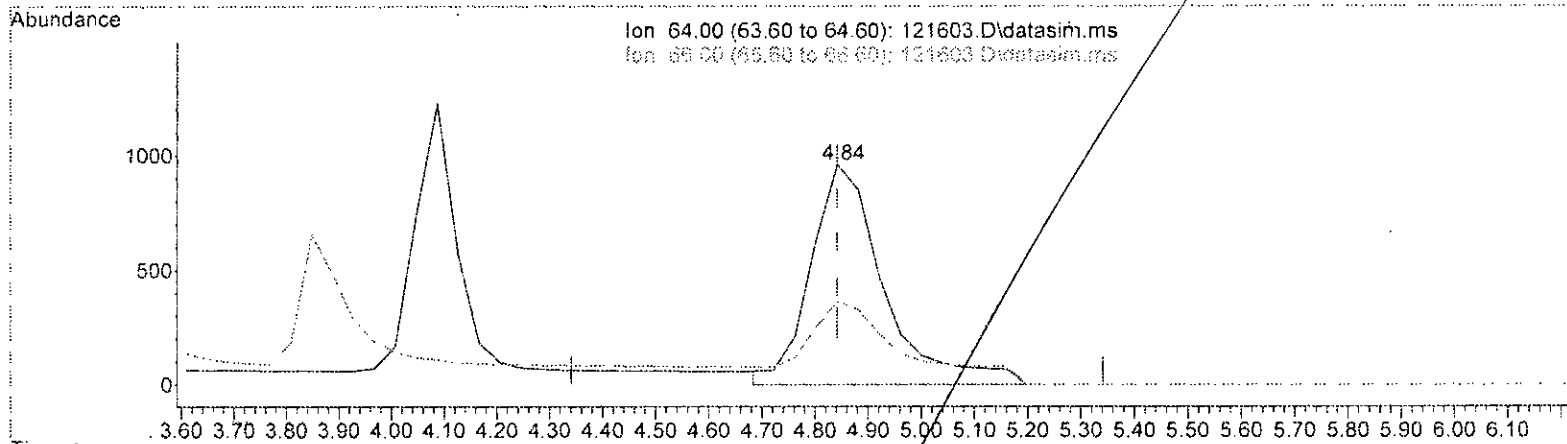
response	21198	
Ion	Exp%	Act%
50.00	100.00	100.00
51.90	25.30	31.29
0.00	0.00	0.00
0.00	0.00	0.00

*h*  
*2/16/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(10) Chloroethane (TMP)  
 4.842min (-0.000) 2.768 ppbv  
 response 8823

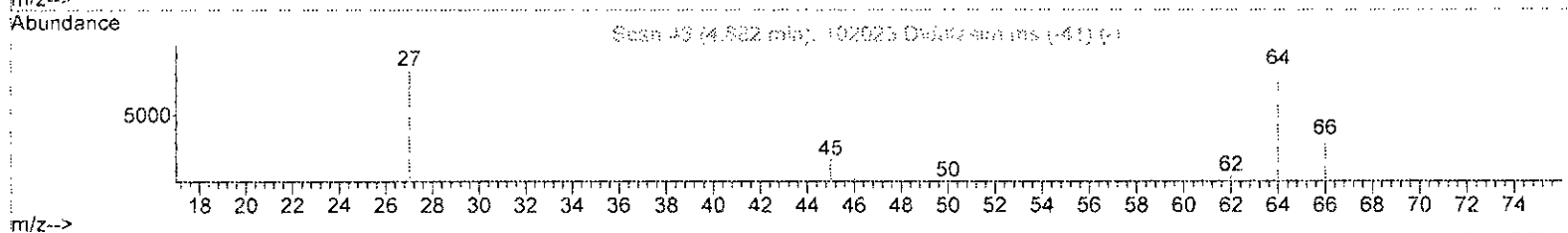
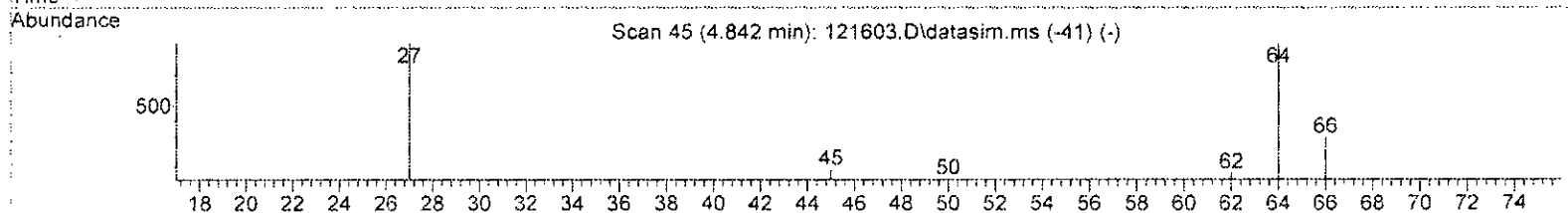
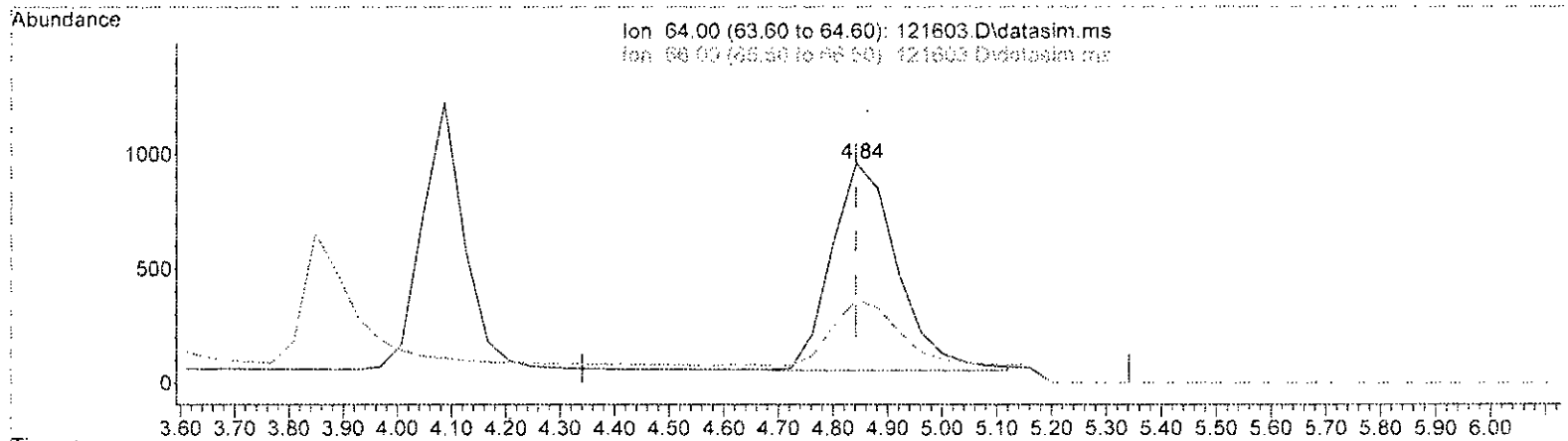
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	38.02
0.00	0.00	0.00
0.00	0.00	0.00

*h  
 12/16/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(10) Chloroethane (TMP)

4.842min (-0.000) 2.379 ppbv m

response 7582

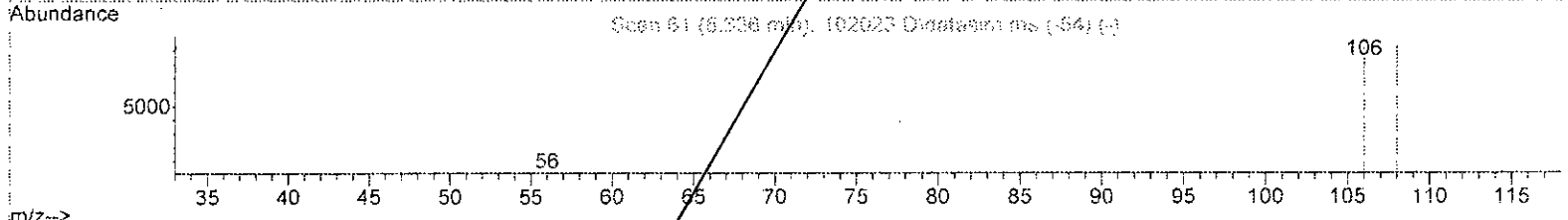
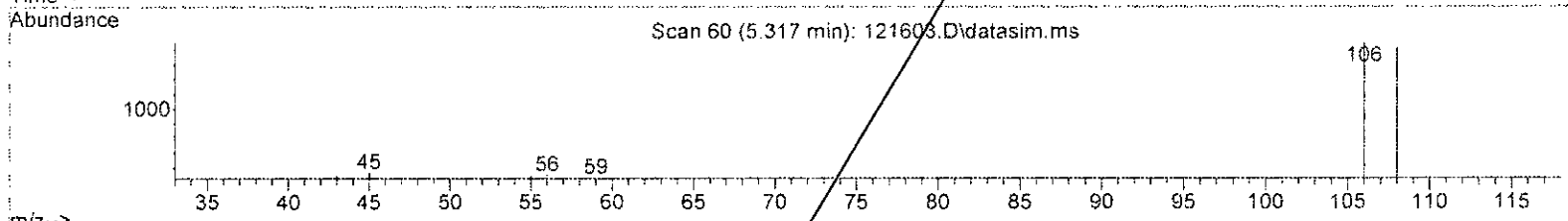
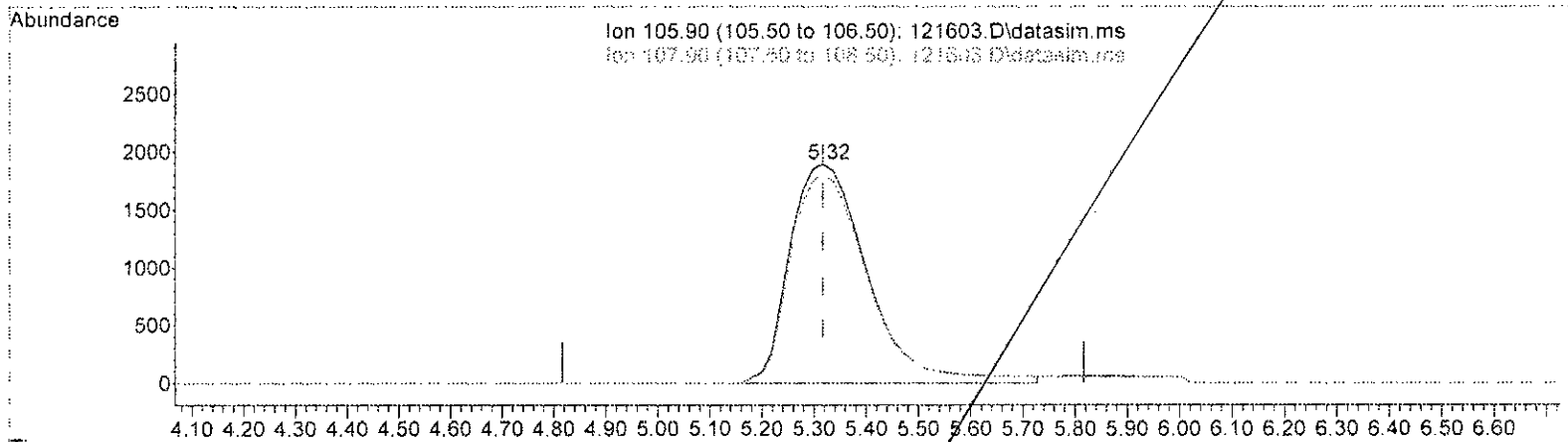
Ion	Exp%	Act%
64.00	100.00	100.00
66.00	31.80	38.02
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(11) Vinyl bromide (TMP)

5.317min (-0.000) 2.682 ppbv

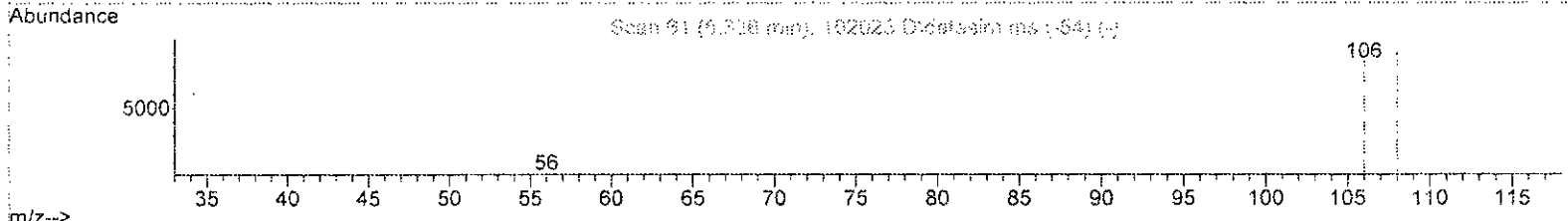
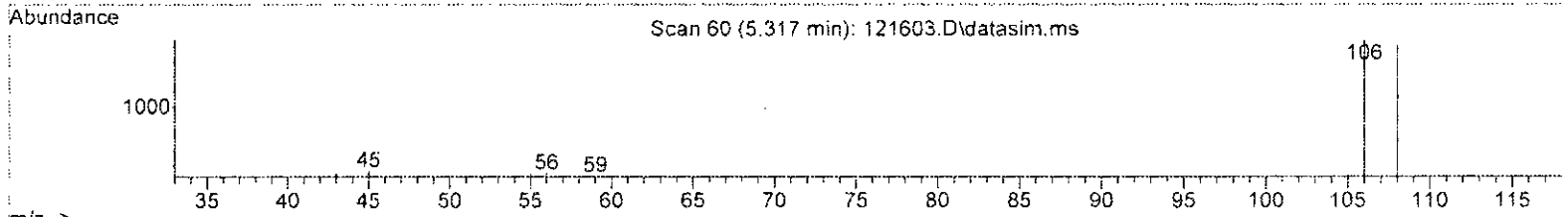
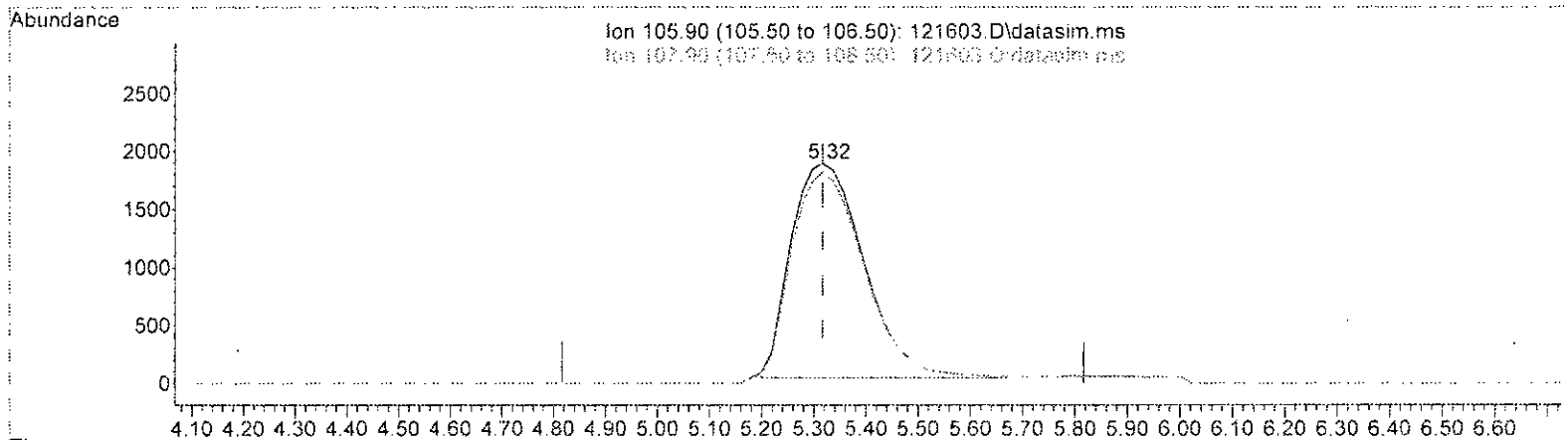
response	21016
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 95.04
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature: H. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(11) Vinyl bromide (TMP)

5.317min (-0.000) 2.294 ppbv m

response	17980
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 111.08
0.00	0.00 0.00
0.00	0.00 0.00

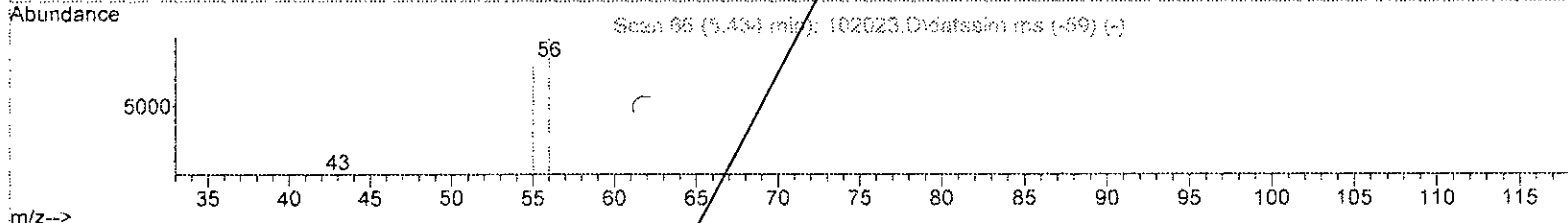
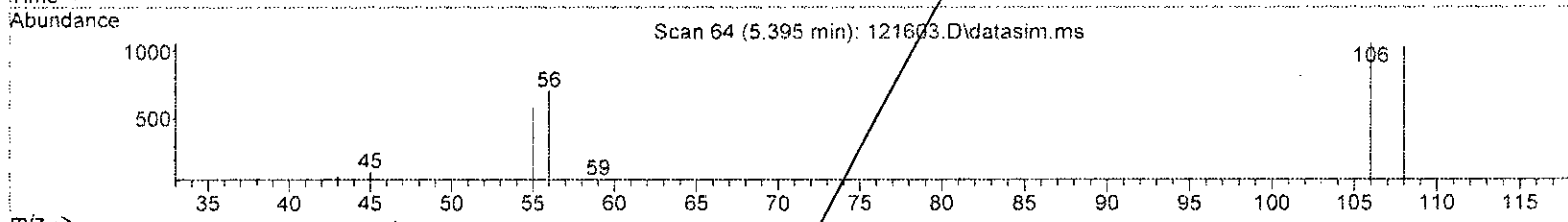
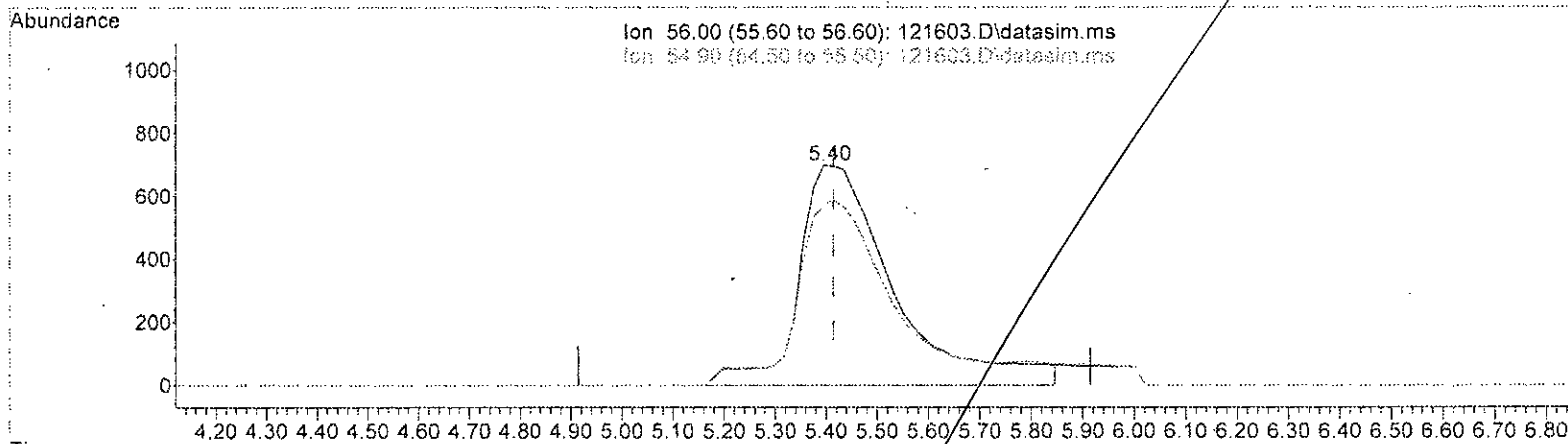
*Handwritten signature/initials*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121603.D\data.ms

(13) Acrolein (TMP)

5.395min (-0.020) 2.683 ppbv

response 9522

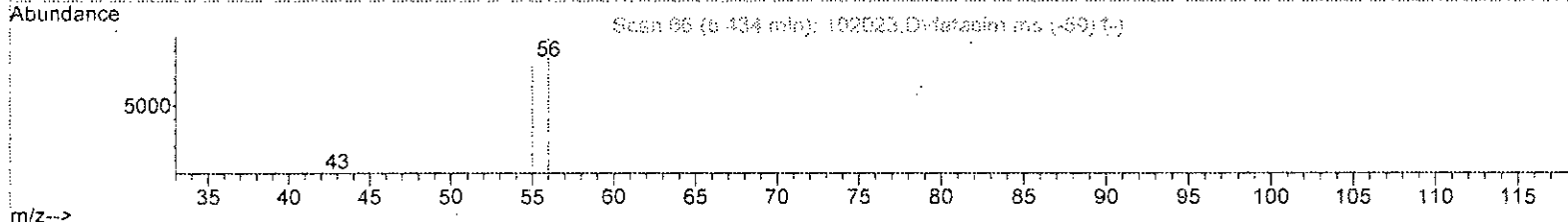
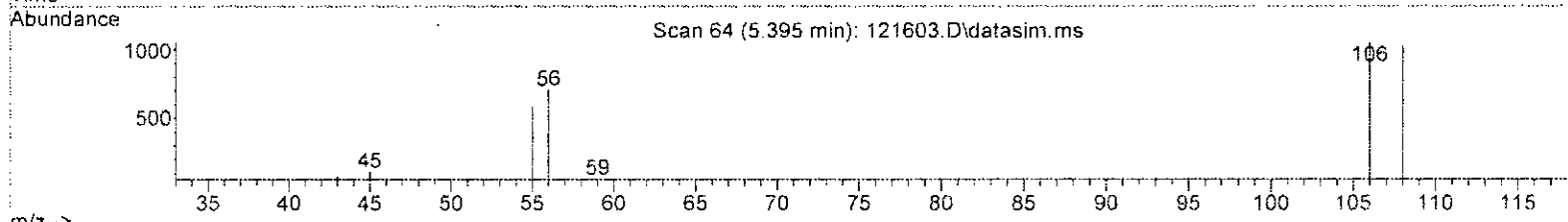
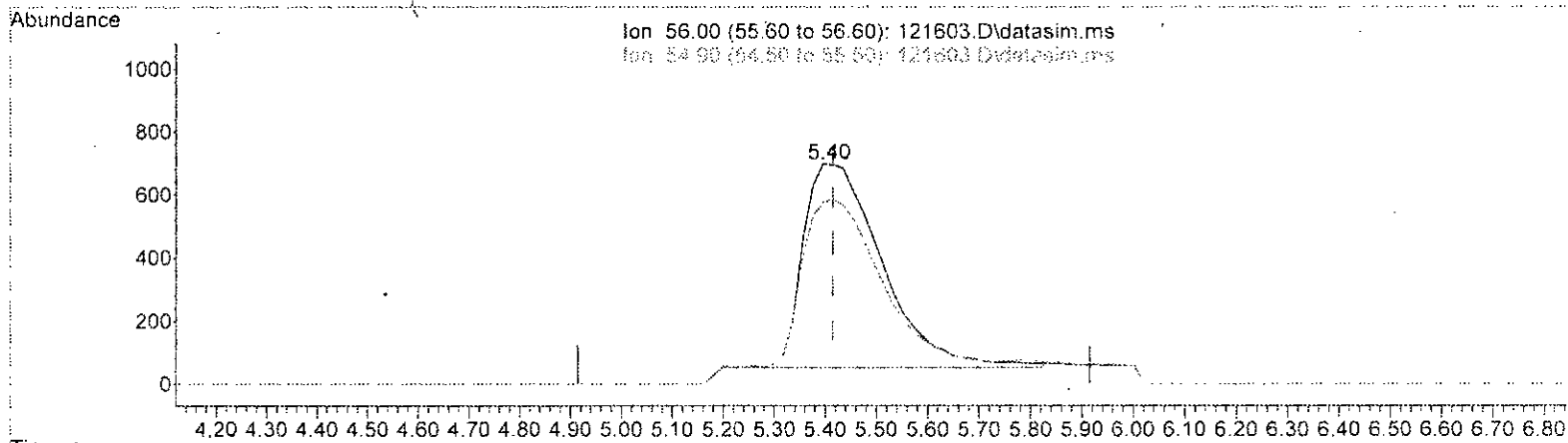
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	84.20
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: U/12/16/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

(13) Acrolein (TMP)

5.395min (-0.020) 1.942 ppbv m

response 6895

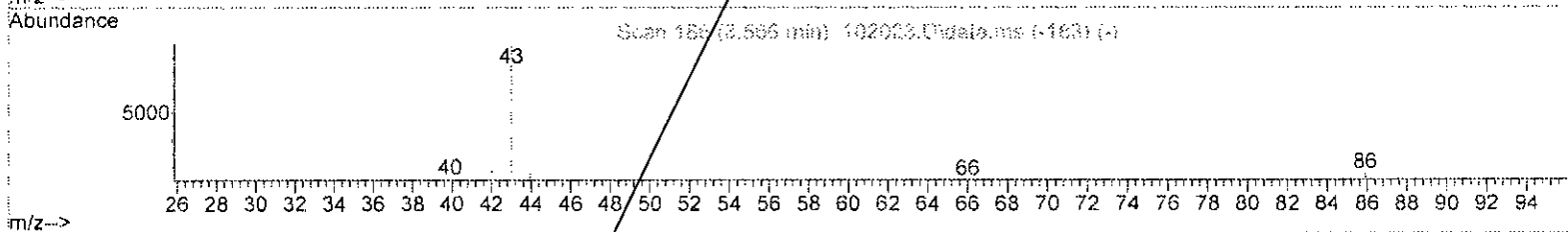
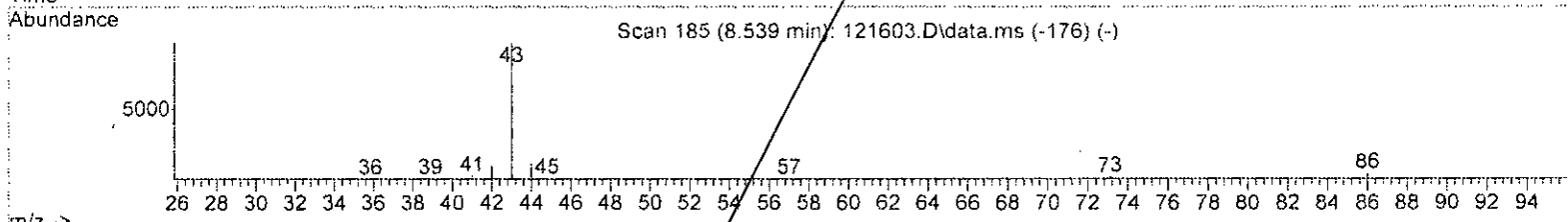
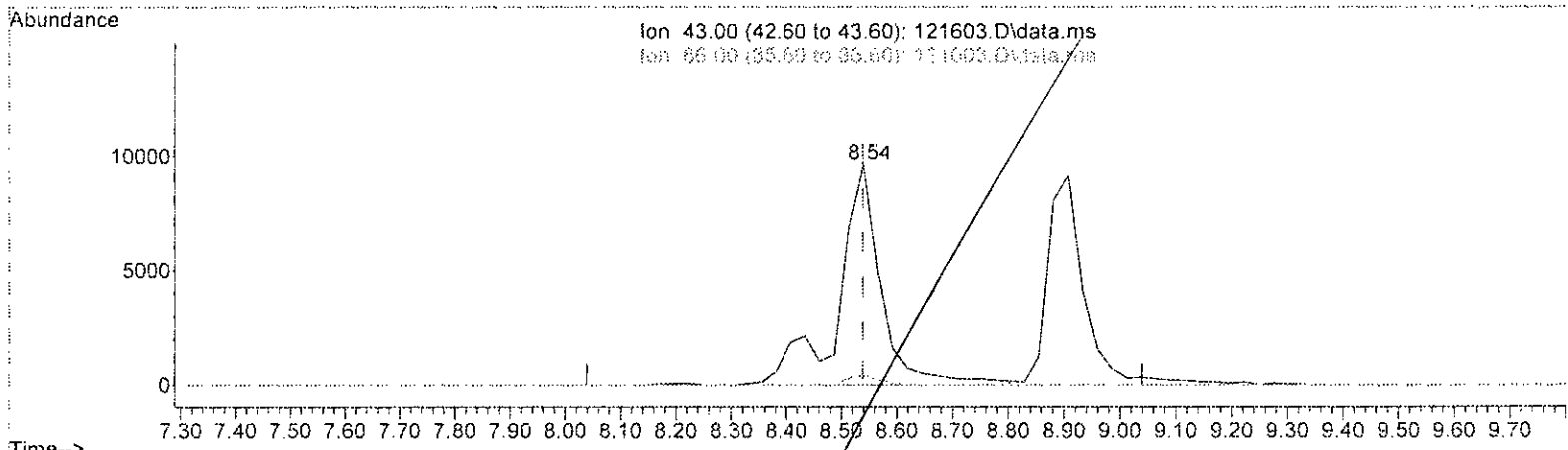
Ion	Exp%	Act%
56.00	100.00	100.00
54.90	81.00	116.29#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 Qlast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121603.D\data.ms

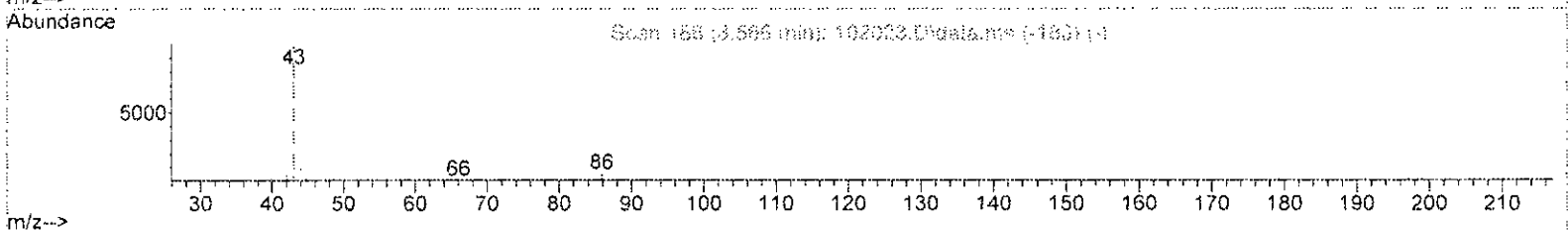
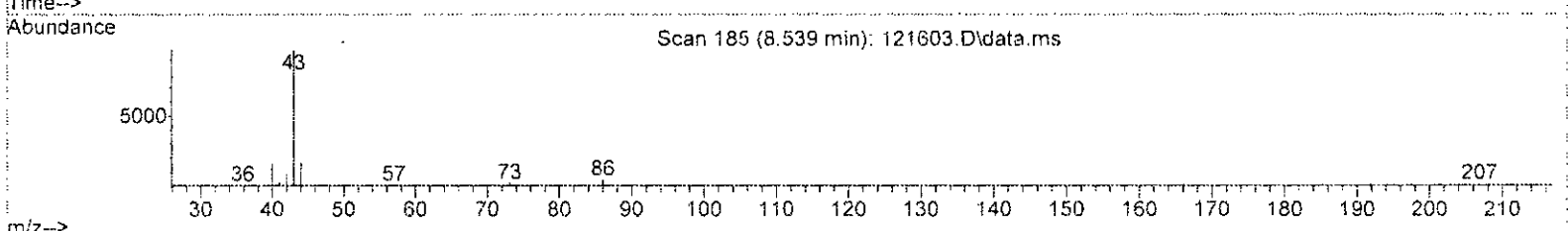
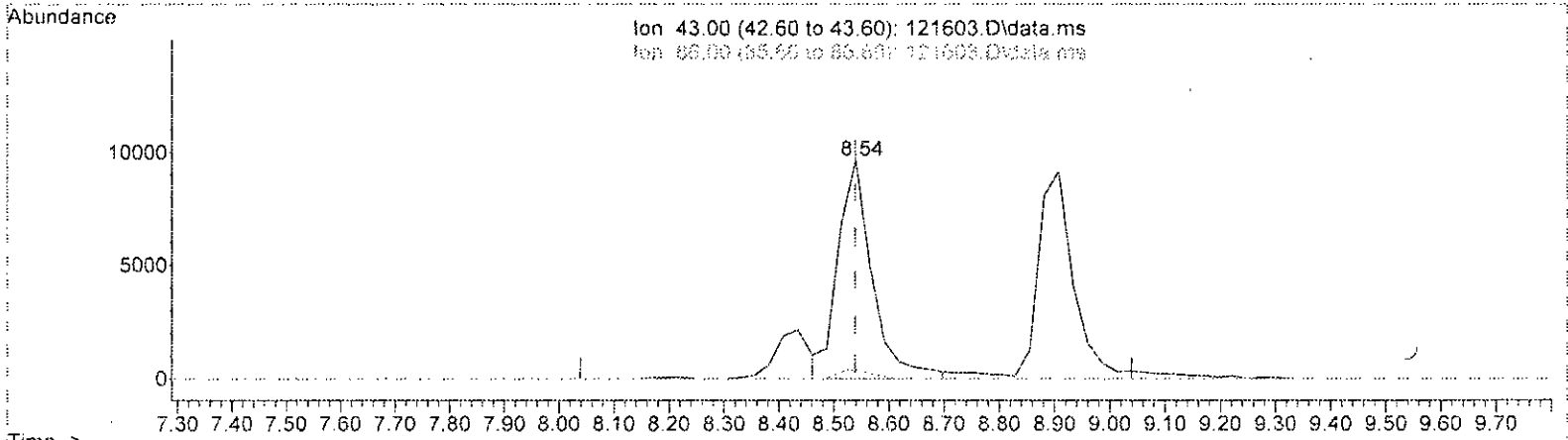
(26) Vinyl acetate (TMP)		
8.539min (+ 0.000)	2.826	ppbv
response	52312	
Ion	Exp%	Act%
43.00	100.00	100.00
86.00	4.20	4.54
0.00	0.00	0.00
0.00	0.00	0.00

*u*  
*cal/6/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 55 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121603.D\data.ms

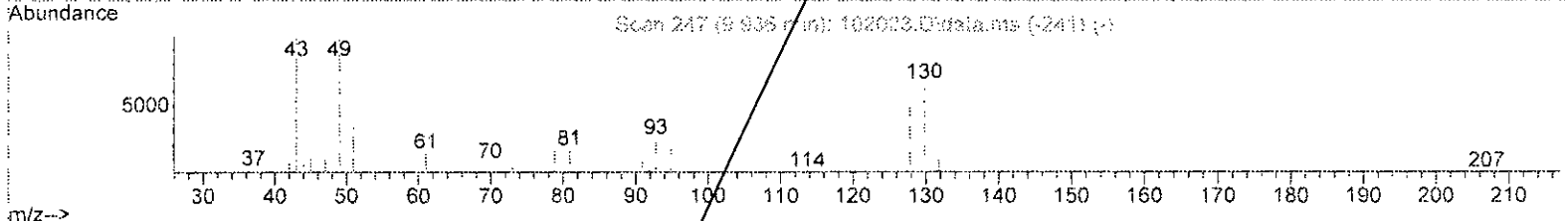
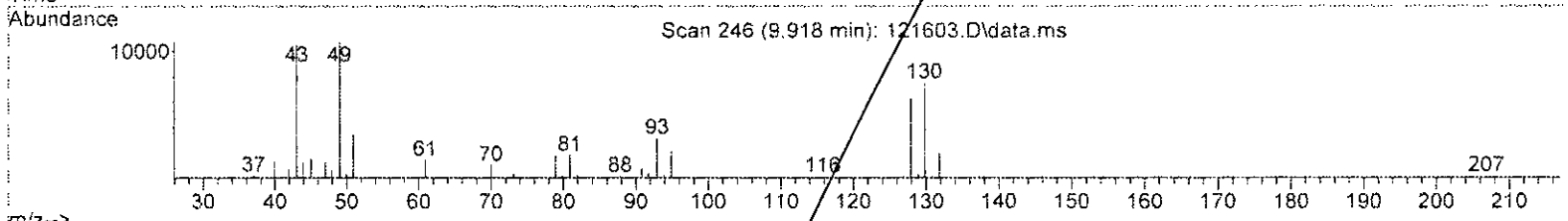
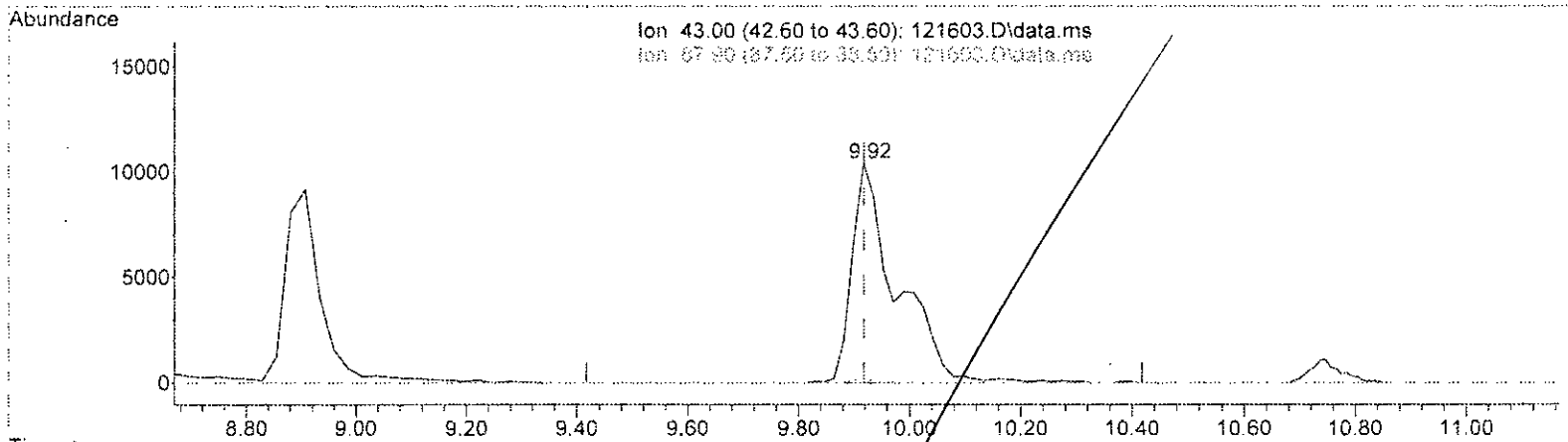
(26) Vinyl acetate (TMP)			
8.539min (+ 0.000)		2.248 ppbv m	
response	41613		
Ion	Exp%	Act%	
43.00	100.00	100.00	
86.00	4.20	4.54	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten note: u alcohol*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121603.D\data.ms

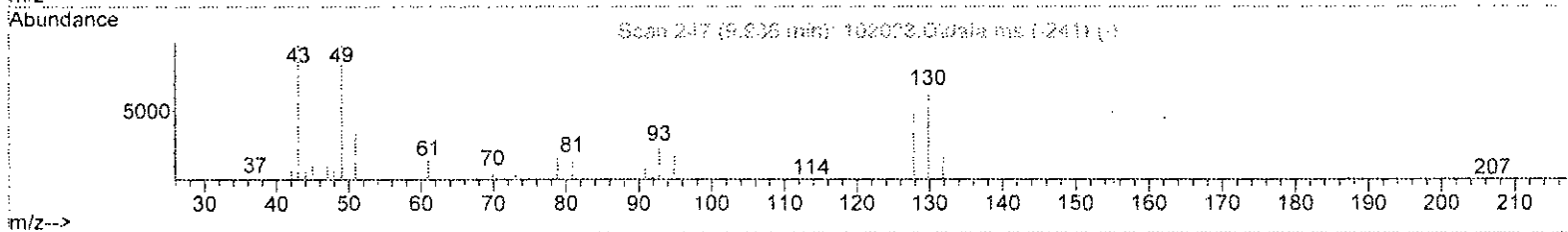
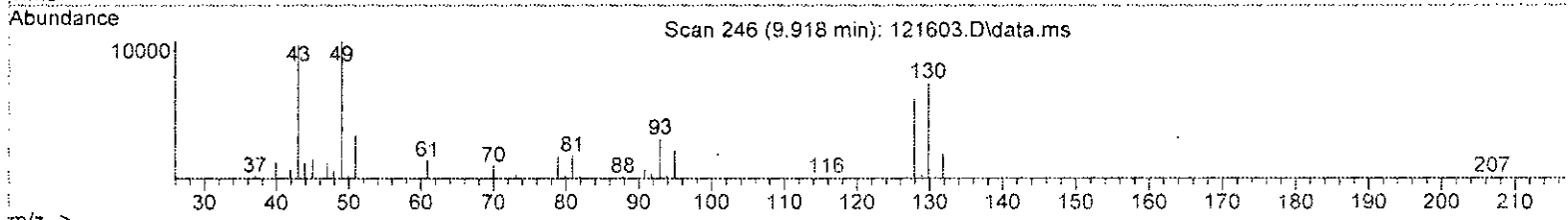
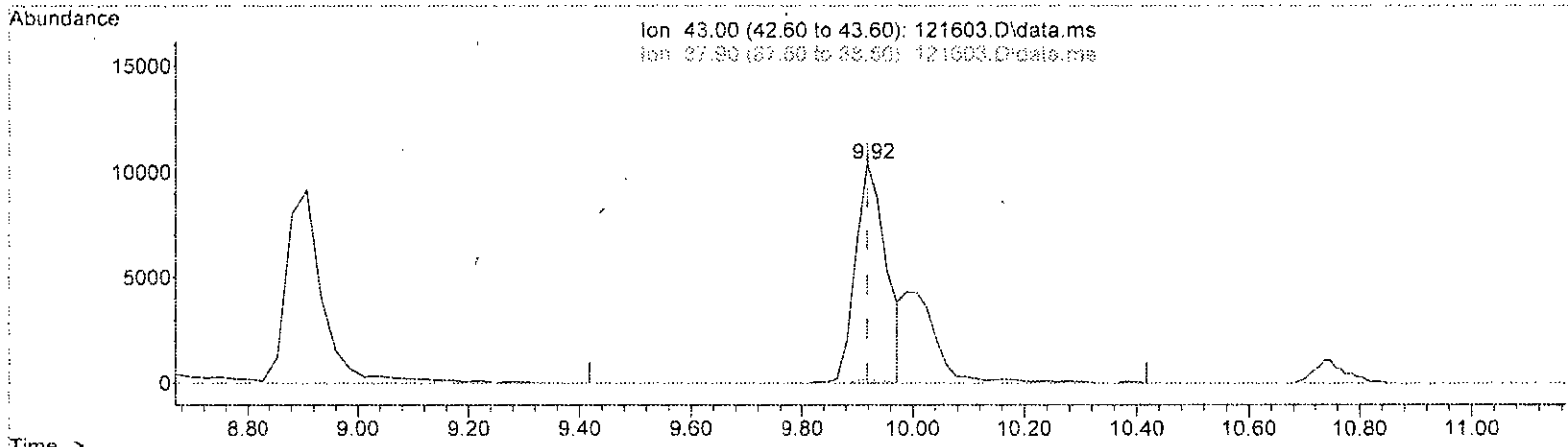
(31) Ethyl acetate (TMP)		
9.918min (-0.000) 3.103 ppbv		
response	57259	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	0.94#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: h 12/16/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121603.D\data.ms

(31) Ethyl acetate (TMP)  
 9.918min (-0.000) 2.174 ppbv m

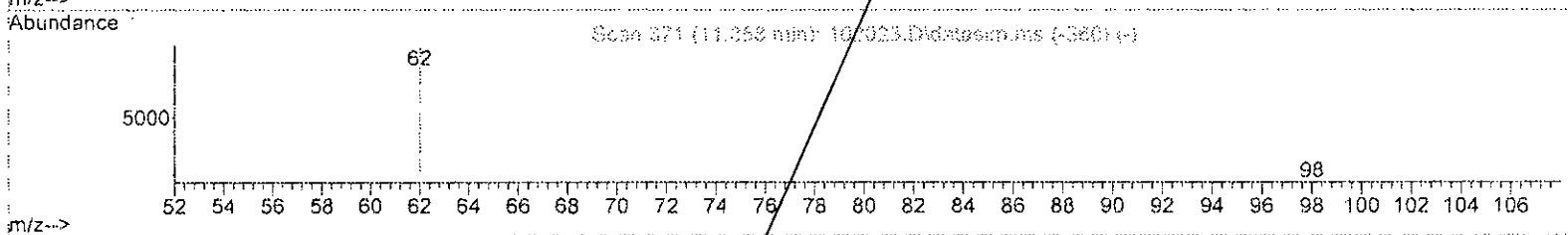
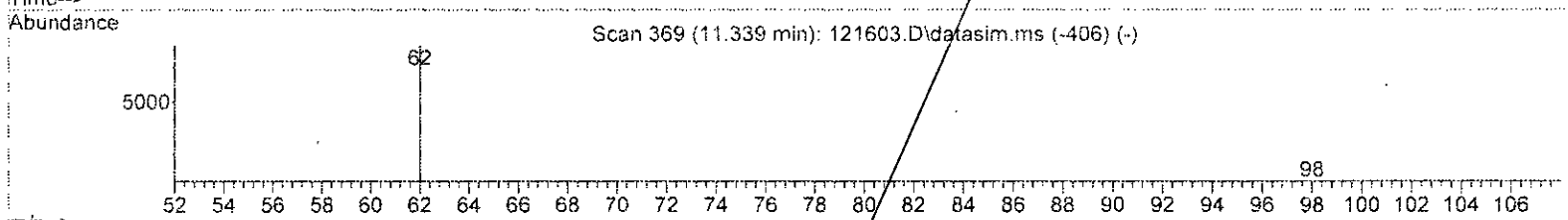
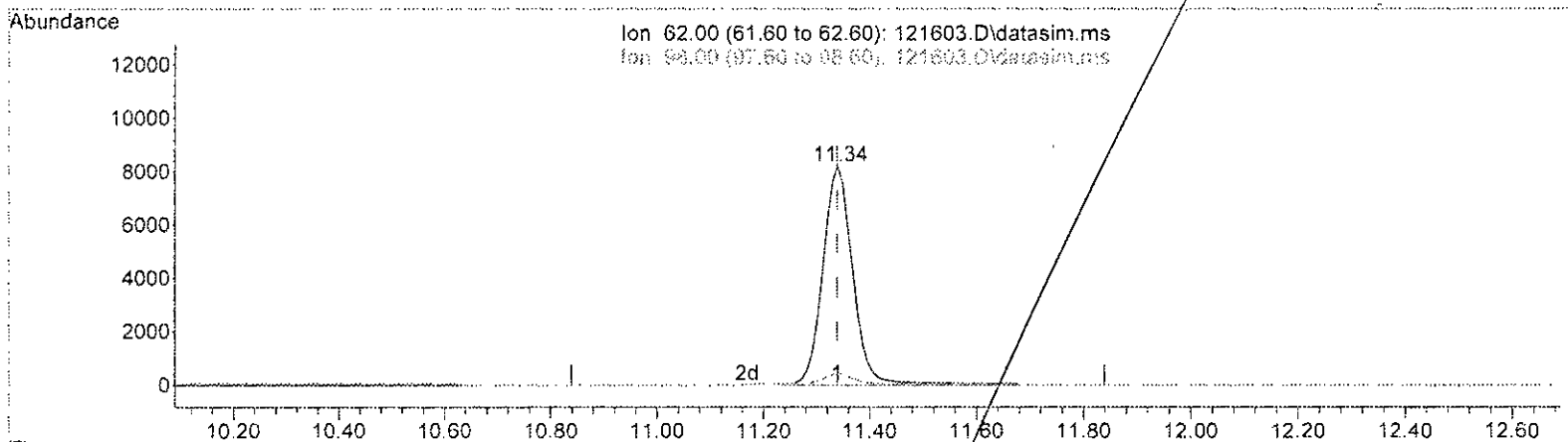
response	40109	
Ion	Exp%	Act%
43.00	100.00	100.00
87.90	1.70	1.35#
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121603.D\data.ms

(34) 1,2-Dichloroethane (EDC), (TMP)

11.339min (+ 0.000) 2.620 ppbv

response 32674

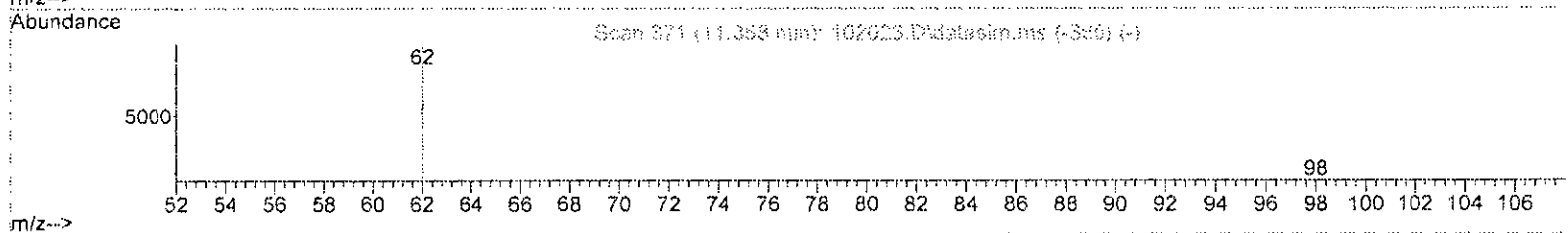
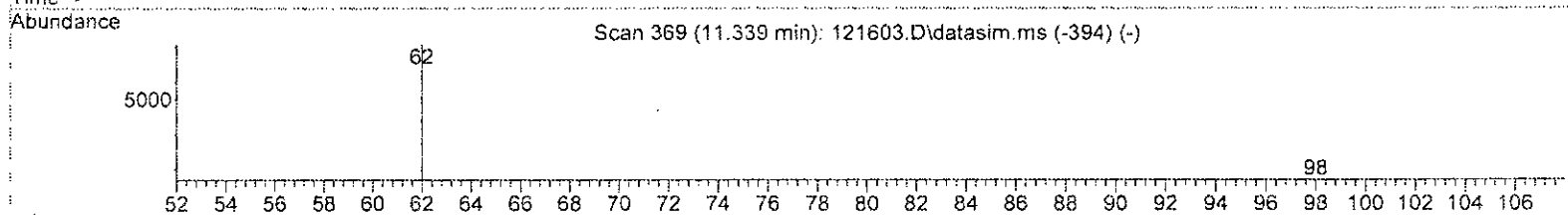
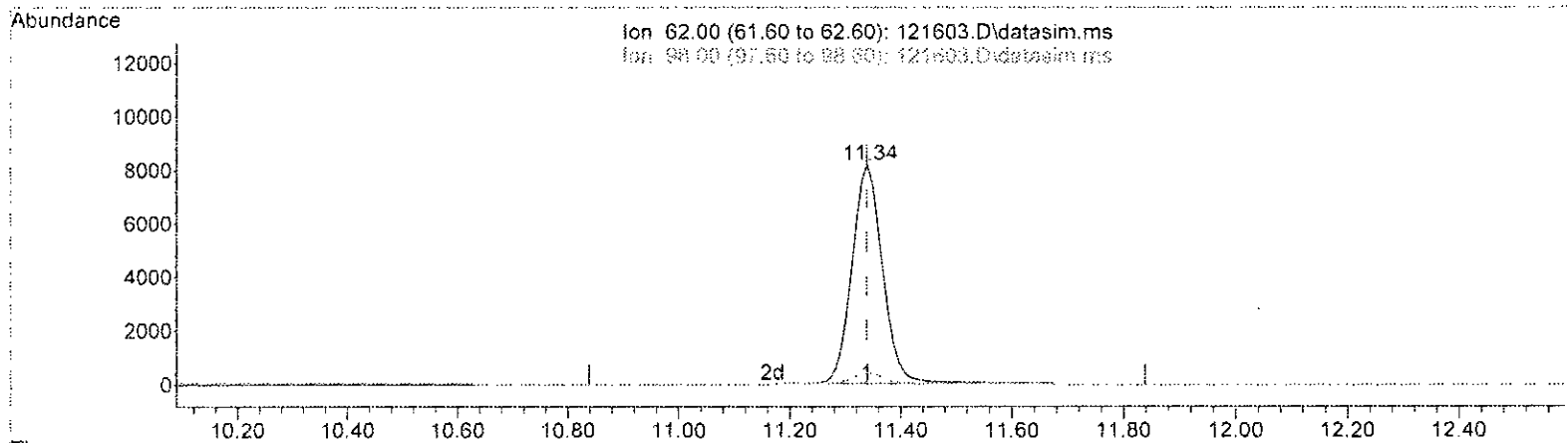
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	5.34
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*  
 12/16/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121603.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.339min (+ 0.000) 2.506 ppbv m

response 31274

Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	5.34
0.00	0.00	0.00
0.00	0.00	0.00

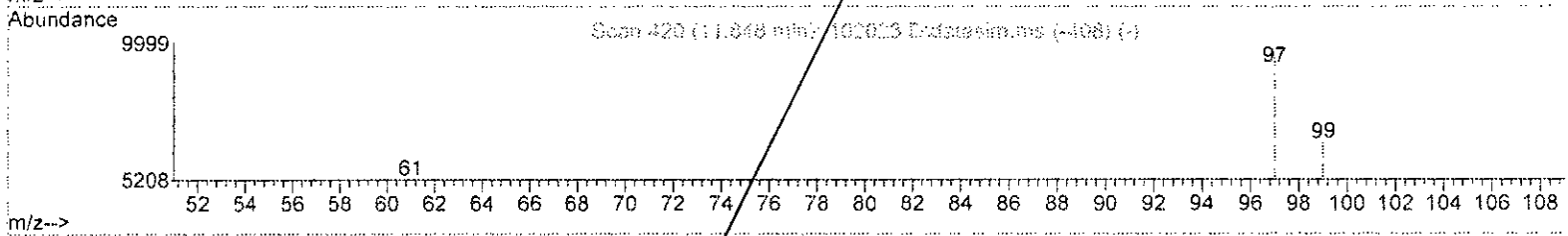
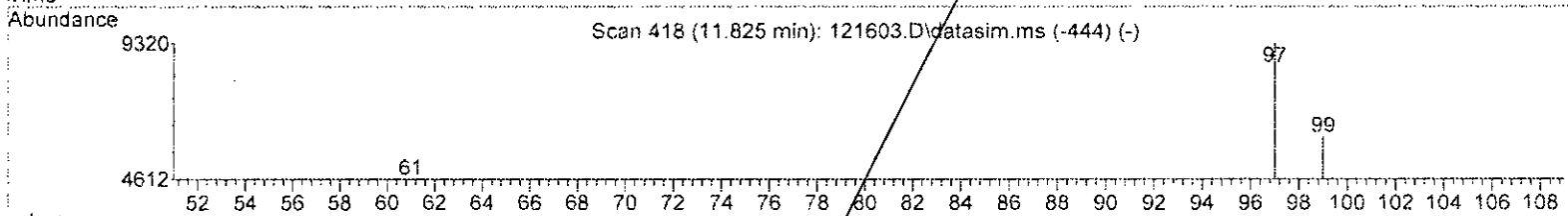
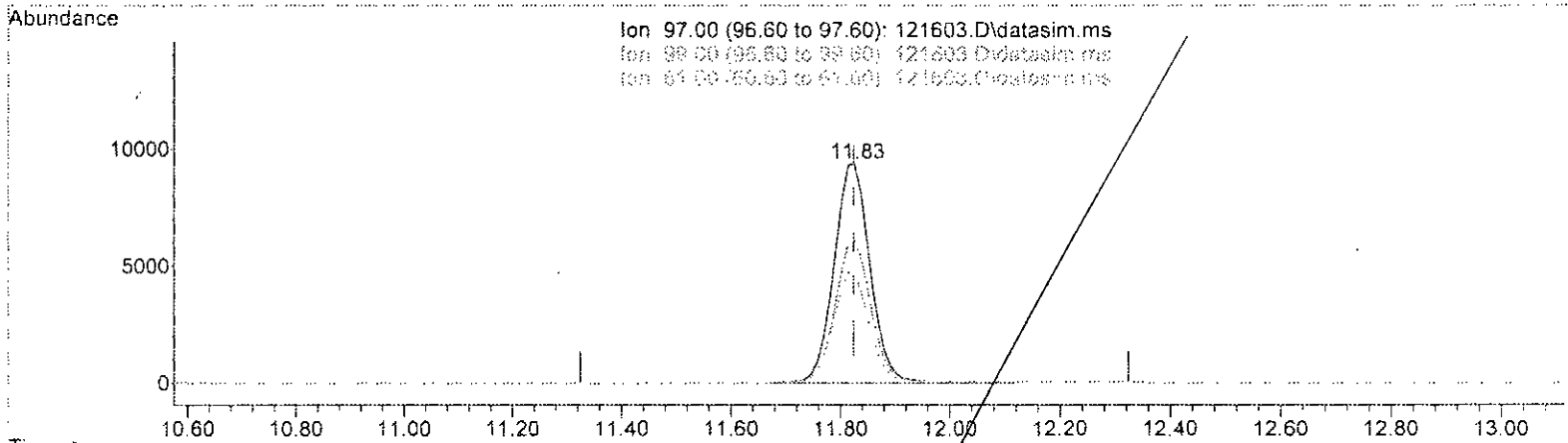
*h*  
*6/16/22*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121603.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 2.652 ppbv

response 43176

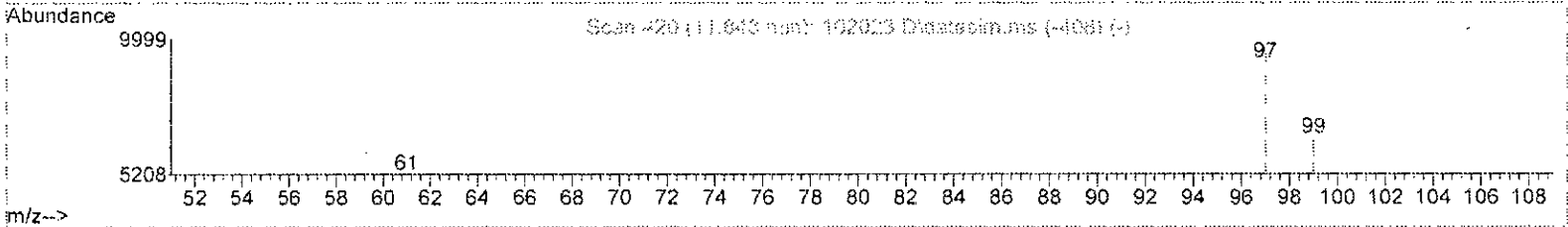
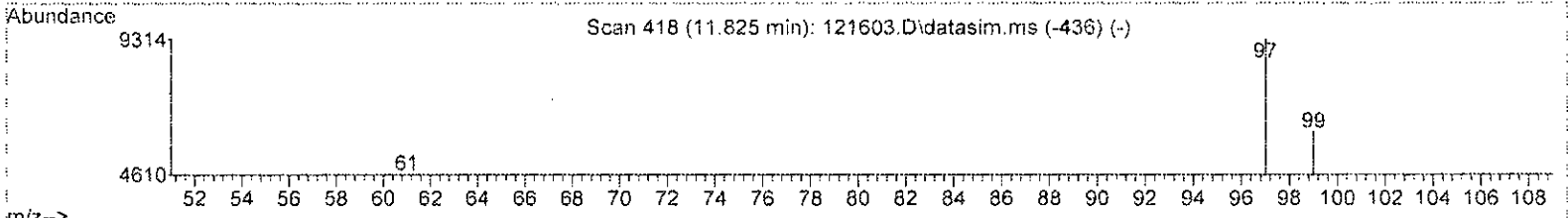
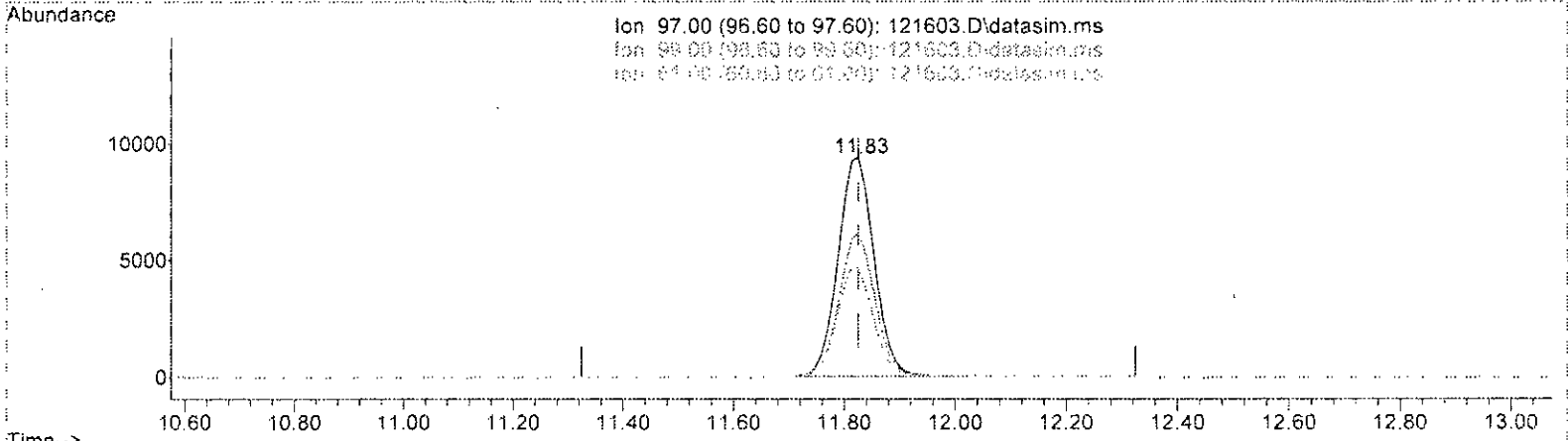
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	65.31
61.00	49.30	49.81
0.00	0.00	0.00

*Handwritten signature/initials*  
 12/16/22

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121603.D\data.ms

(35) 1,1,1-Trichloroethane (TMP)

11.825min (+ 0.000) 2.597 ppbv m

response	42280	
Ion	Exp%	Act%
97.00	100.00	100.00
99.00	61.70	65.31
61.00	49.30	49.81
0.00	0.00	0.00

*Handwritten signature: M. Calabu*

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.88	128	48699	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	202988	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	185926	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	132589	10.290	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.90%
Target Compounds						
						Qvalue
2) Propene	3.41	41	17100	2.653	ppbv	95
3) Dichlorodifluoromethane	3.49	85	49143	2.448	ppbv	96
4) Chloromethane	3.73	50	21198m	2.312	ppbv	
5) F-114	3.88	85	47777	2.326	ppbv	91
6] Vinyl chloride	4.09	62	19684	2.184	ppbv	98
7] 1,3-Butadiene	4.29	54	11740	1.982	ppbv #	82
8) Butane	4.40	43	24632	2.317	ppbv	96
9) Bromomethane	4.60	94	20345	2.262	ppbv	95
10] Chloroethane	4.84	64	7582m	2.379	ppbv	
11] Vinyl bromide	5.32	106	17980m	2.294	ppbv	
12) Ethanol	4.96	45	17053	5.280	pphv	91
13] Acrolein	5.40	56	6895m	1.942	ppbv	
14) Pentane	6.25	43	25154	2.099	ppbv	96
15) Trichlorofluoromethane	5.84	101	60029	2.578	ppbv	89
16) Acetone	5.59	58	7980	2.306	ppbv	89
17) 2-Propanol	5.80	45	35902	2.381	ppbv	92
18] 1,1-Dichloroethene	6.63	96	17689	2.208	ppbv	94
19] trans-1,2-Dichloroethene	8.10	96	17231	2.214	ppbv #	75
20) Methylene chloride	6.80	84	21587	2.997	ppbv	85
21) t-Butyl alcohol (TBA)	6.57	59	30628	2.357	ppbv #	77
22) 3-Chloropropene	6.94	41	22299	2.227	ppbv	99
23) CFC-113	7.15	101	42269	2.502	ppbv	98
24) Carbon disulfide	7.25	76	57116	2.270	ppbv	98
25) Methyl t-butyl ether (...)	8.43	73	36091	2.158	ppbv	98
26) Vinyl acetate	8.54	43	41613m	2.248	ppbv	
27] 1,1-Dichloroethane	8.36	63	39003	2.396	ppbv	98
28] cis-1,2-Dichloroethene	9.64	96	17927	2.178	ppbv	99
29) Hexane	10.01	57	20257	2.011	ppbv	89
30] Chloroform	10.08	83	47030	2.512	ppbv	96
31) Ethyl acetate	9.92	43	40109m	2.174	ppbv	
32) Tetrahydrofuran	10.74	42	18965	2.152	ppbv	97
33) 2-Butanone (MEK)	8.91	72	7176	2.381	ppbv #	75
34] 1,2-Dichloroethane (EDC)	11.34	62	31274m	2.506	ppbv	
35] 1,1,1-Trichloroethane	11.83	97	42280m	2.597	ppbv	
36] Carbon tetrachloride	12.86	117	45519	2.653	ppbv	98
37] Benzene	12.61	78	58158	2.272	ppbv	96
38) Cyclohexane	13.05	84	13178	1.980	ppbv	89
40] 1,2-Dichloropropane	13.80	63	27780	2.528	ppbv	94

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

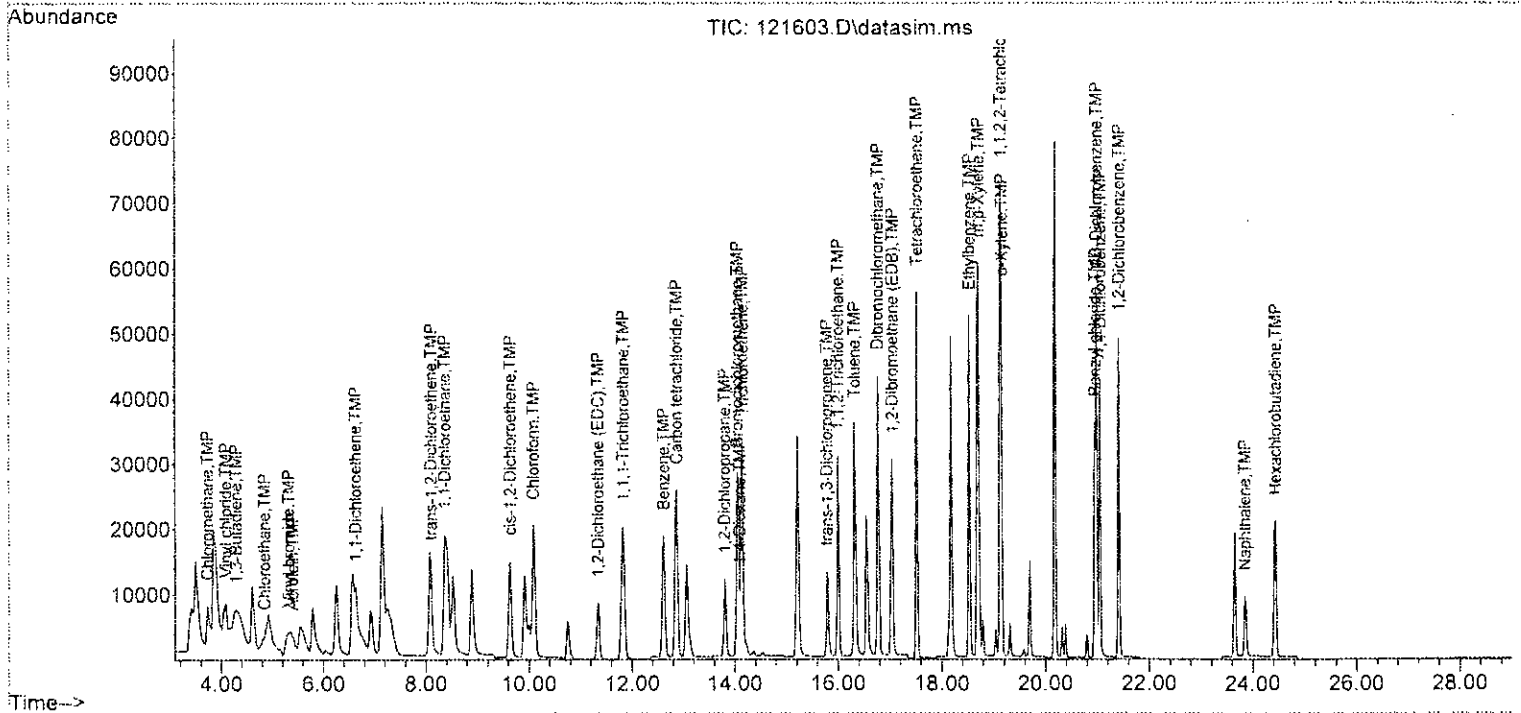
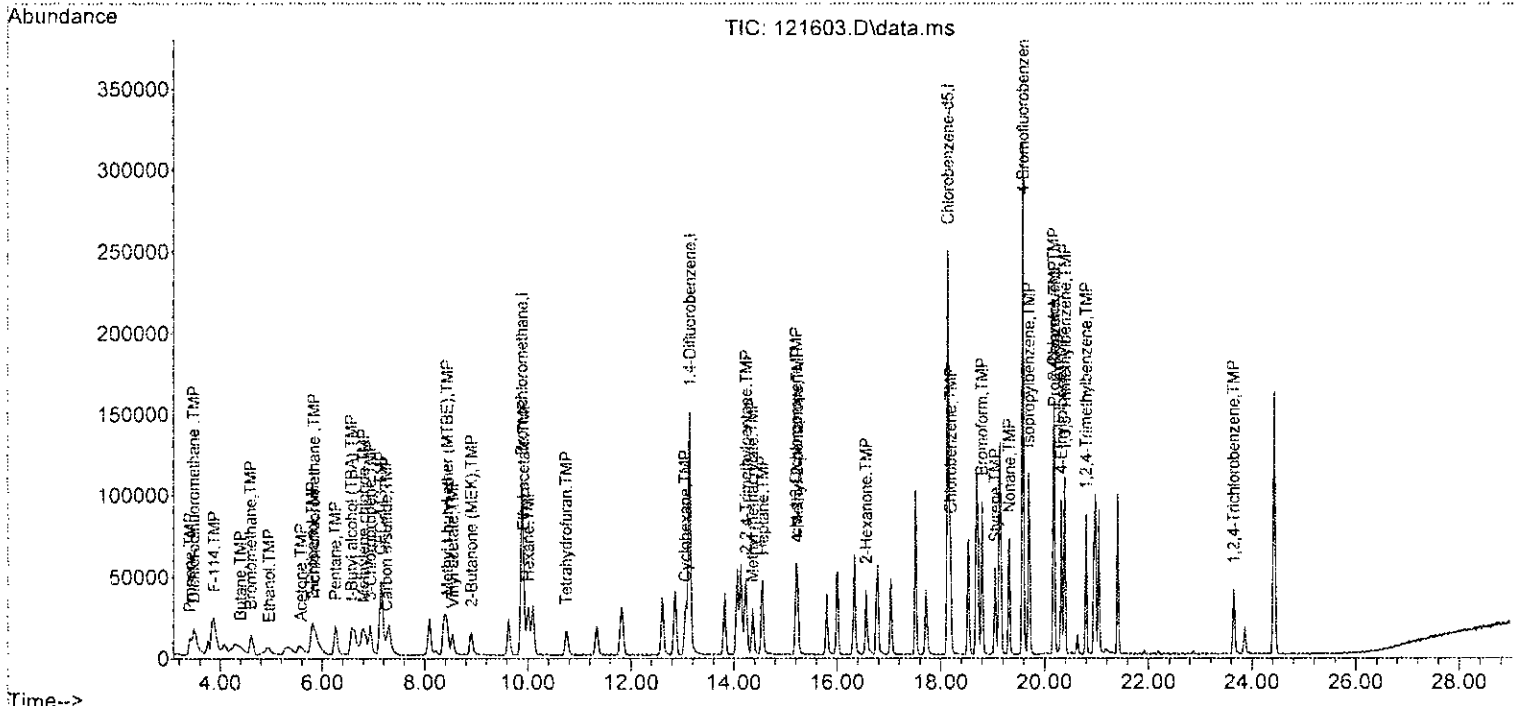
Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41] 1,4-Dioxane	14.09	88	10796	2.310	ppbv	79
42] 2,2,4-Trimethylpentane	14.24	57	72377	2.231	ppbv #	81
43] Methyl methacrylate	14.36	41	24157	2.452	ppbv	97
44] Heptane	14.56	43	31776	2.360	ppbv	96
45] Bromodichloromethane	14.04	83	49052	2.844	ppbv	100
46] Trichloroethene	14.14	95	30133	2.503	ppbv	93
47] cis-1,3-Dichloropropene	15.20	75	31257	2.572	ppbv	94
48] 4-Methyl-2-pentanone	15.23	100	2248	2.502	ppbv #	95
49] trans-1,3-Dichloropropene	15.78	75	30313	2.652	ppbv	84
50] Toluene	16.31	92	34181	2.382	ppbv	99
51] 1,1,2-Trichloroethane	16.00	83	28718	2.748	ppbv	90
52] 2-Hexanone	16.56	43	42515	2.475	ppbv	93
53] Tetrachloroethene	17.52	164	27165	2.732	ppbv	93
54] Dibromochloromethane	16.76	129	50114	2.868	ppbv	100
55] 1,2-Dibromoethane (EDB)	17.04	107	41859	2.716	ppbv	98
57] Chlorobenzene	18.19	112	51985	2.540	ppbv	100
58] Ethylbenzene	18.53	91	74426	2.236	ppbv	96
59] 1,1,2,2-Tetrachloroethane	19.13	83	68519	2.780	ppbv	92
60] Nonane	19.32	43	37948	2.081	ppbv	96
61] Isopropylbenzene	19.70	105	81821	2.456	ppbv	98
62] 2-Chlorotoluene	20.17	126	20158	2.420	ppbv	77
63] Propylbenzene	20.19	91	145652	2.380	ppbv	97
64] 4-Ethyltoluene	20.32	105	62944	2.101	ppbv	100
65] m,p-Xylene	18.70	106	53348	4.531	ppbv	97
66] o-Xylene	19.15	106	26828	2.347	ppbv	99
67] Styrene	19.05	104	32536	2.137	ppbv	97
68] Bromoform	18.80	173	54349	2.842	ppbv	99
70] Benzyl chloride	20.95	91	57399	2.663	ppbv	100
71] 1,3,5-Trimethylbenzene	20.39	105	70355	2.610	ppbv	99
72] 1,2,4-Trimethylbenzene	20.80	105	48895	1.979	ppbv	96
73] 1,3-Dichlorobenzene	20.98	146	47978	2.550	ppbv	99
74] 1,4-Dichlorobenzene	21.05	146	43277	2.458	ppbv	99
75] 1,2-Dichlorobenzene	21.41	146	49591	2.604	ppbv	94
76] 1,2,4-Trichlorobenzene	23.64	180	19919	1.744	ppbv	96
77] Naphthalene	23.84	128	22106	1.576	ppbv	97
78] Hexachlorobutadiene	24.44	225	53977	2.779	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCM57\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCM57

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCM57 Methods\1115T015ss7.M  
 Quant Title : T0-15 55 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Bromochloromethane	10.000	10.000	0.0	81	0.00
2 TMP Propene	2.500	2.653	-6.1	80	0.00
3 TMP Dichlorodifluoromethane	2.500	2.448	2.1	76	0.00
4 TMP Chloromethane	2.500	2.312	7.5	74	0.00
5 TMP F-114	2.500	2.326	7.0	76	0.00
6 TMP Vinyl chloride	2.500	2.184	12.6	72	0.00
7 TMP 1,3-Butadiene	2.500	1.982	20.7	66	0.00
8 TMP Butane	2.500	2.317	7.3	71	0.08
9 TMP Bromomethane	2.500	2.262	9.5	73	0.00
10 TMP Chloroethane	2.500	2.379	4.8	72	0.00
11 TMP Vinyl bromide	2.500	2.294	8.2	71	0.00
12 TMP Ethanol	2.500	5.280	-111.2#	158	0.00
13 TMP Acrolein	2.500	1.942	22.3	70	-0.02
14 TMP Pentane	2.500	2.099	16.0	64	0.00
15 TMP Trichlorofluoromethane	2.500	2.578	-3.1	77	0.00
16 TMP Acetone	2.500	2.306	7.8	68	0.02
17 TMP 2-Propanol	2.500	2.381	4.8	74	0.02
18 TMP 1,1-Dichloroethene	2.500	2.208	11.7	73	0.00
19 TMP trans-1,2-Dichloroethene	2.500	2.214	11.4	71	0.00
20 TMP Methylene chloride	2.500	2.997	-19.9	88	0.00
21 TMP t-Butyl alcohol (TBA)	2.500	2.357	5.7	77	0.00
22 TMP 3-Chloropropene	2.500	2.227	10.9	71	0.00
23 TMP CFC-113	2.500	2.502	-0.1	75	0.00
24 TMP Carbon disulfide	2.500	2.270	9.2	65	-0.03
25 TMP Methyl t-butyl ether (MTBE)	2.500	2.158	13.7	66	0.00
26 TMP Vinyl acetate	2.500	2.248	10.1	68	0.00
27 TMP 1,1-Dichloroethane	2.500	2.396	4.2	74	0.00
28 TMP cis-1,2-Dichloroethene	2.500	2.178	12.9	70	0.00
29 TMP Hexane	2.500	2.011	19.6	64	0.00
30 TMP Chloroform	2.500	2.512	-0.5	77	-0.02
31 TMP Ethyl acetate	2.500	2.174	13.0	69	0.00
32 TMP Tetrahydrofuran	2.500	2.152	13.9	71	-0.01
33 TMP 2-Butanone (MEK)	2.500	2.381	4.8	72	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.500	2.506	-0.2	78	0.00
35 TMP 1,1,1-Trichloroethane	2.500	2.597	-3.9	76	0.00
36 TMP Carbon tetrachloride	2.500	2.653	-6.1	80	0.00
37 TMP Benzene	2.500	2.272	9.1	70	0.00
38 TMP Cyclohexane	2.500	1.980	20.8	60	-0.02
39 I 1,4-Difluorobenzene	10.000	10.000	0.0	73	0.00
40 TMP 1,2-Dichloropropane	2.500	2.528	-1.1	73	0.00
41 TMP 1,4-Dioxane	2.500	2.310	7.6	70	0.00
42 TMP 2,2,4-Trimethylpentane	2.500	2.231	10.8	62	0.00
43 TMP Methyl methacrylate	2.500	2.452	1.9	67	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
44 TMP Heptane	2.500	2.360	5.6	66	0.00
45 TMP Bromodichloromethane	2.500	2.844	-13.8	77	0.00
46 TMP Trichloroethene	2.500	2.503	-0.1	75	0.00
47 TMP cis-1,3-Dichloropropene	2.500	2.572	-2.9	69	0.00
48 TMP 4-Methyl-2-pentanone	2.500	2.502	-0.1	71	0.00
49 TMP trans-1,3-Dichloropropene	2.500	2.652	-6.1	72	0.00
50 TMP Toluene	2.500	2.382	4.7	67	0.00
51 TMP 1,1,2-Trichloroethane	2.500	2.748	-9.9	75	0.00
52 TMP 2-Hexanone	2.500	2.475	1.0	71	0.00
53 TMP Tetrachloroethene	2.500	2.732	-9.3	76	0.00
54 TMP Dibromochloromethane	2.500	2.868	-14.7	79	0.00
55 TMP 1,2-Dibromoethane (EDB)	2.500	2.716	-8.6	75	0.00
56 I Chlorobenzene-d5	10.000	10.000	0.0	76	0.00
57 TMP Chlorobenzene	2.500	2.540	-1.6	74	0.00
58 TMP Ethylbenzene	2.500	2.236	10.6	65	0.00
59 TMP 1,1,2,2-Tetrachloroethane	2.500	2.780	-11.2	79	0.00
60 TMP Nonane	2.500	2.081	16.8	59	0.02
61 TMP Isopropylbenzene	2.500	2.456	1.8	67	0.00
62 TMP 2-Chlorotoluene	2.500	2.420	3.2	68	0.00
63 TMP Propylbenzene	2.500	2.380	4.8	64	0.00
64 TMP 4-Ethyltoluene	2.500	2.101	16.0	62	0.00
65 TMP m,p-Xylene	5.000	4.531	9.4	65	0.00
66 TMP o-Xylene	2.500	2.347	6.1	67	0.00
67 TMP Styrene	2.500	2.137	14.5	62	0.00
68 TMP Bromoform	2.500	2.842	-13.7	81	0.00
69 S 4-Bromofluorobenzene	10.000	10.290	-2.9	73	0.00
70 TMP Benzyl chloride	2.500	2.663	-6.5	77	0.00
71 TMP 1,3,5-Trimethylbenzene	2.500	2.610	-4.4	70	0.00
72 TMP 1,2,4-Trimethylbenzene	2.500	1.979	20.8	59	0.00
73 TMP 1,3-Dichlorobenzene	2.500	2.550	-2.0	72	0.00
74 TMP 1,4-Dichlorobenzene	2.500	2.458	1.7	71	0.00
75 TMP 1,2-Dichlorobenzene	2.500	2.604	-4.2	73	0.00
76 TMP 1,2,4-Trichlorobenzene	2.500	1.744	30.2#	60	0.00
77 TMP Naphthalene	2.500	1.576	37.0#	51	0.00
78 TMP Hexachlorobutadiene	2.500	2.779	-11.2	83	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev. 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Bromochloromethane	1.000	1.000	0.0	81	0.00
2 TMP Propene	1.556	1.405	9.7	80	0.00
3 TMP Dichlorodifluoromethane	4.123	4.036	2.1	76	0.00
4 TMP Chloromethane	1.882	1.741	7.5	74	0.00
5 TMP F-114	4.217	3.924	6.9	76	0.00
6 TMP Vinyl chloride	1.851	1.617	12.6	72	0.00
7 TMP 1,3-Butadiene	1.216	0.964	20.7	66	0.00
8 TMP Butane	2.183	2.023	7.3	71	0.08
9 TMP Bromomethane	1.847	1.671	9.5	73	0.00
10 TMP Chloroethane	0.655	0.623	4.9	72	0.00
11 TMP Vinyl bromide	1.609	1.477	8.2	71	0.00
12 TMP Ethanol	0.663	1.401	-111.3#	158#	0.00
13 TMP Acrolein	0.729	0.566	22.4	70	-0.02
14 TMP Pentane	2.461	2.066	16.1	64	0.00
15 TMP Trichlorofluoromethane	4.781	4.931	-3.1	77	0.00
16 TMP Acetone	0.710	0.655	7.7	68	0.02
17 TMP 2-Propanol	3.096	2.949	4.7	74	0.02
18 TMP 1,1-Dichloroethene	1.645	1.453	11.7	73	0.00
19 TMP trans-1,2-Dichloroethene	1.598	1.415	11.5	71	0.00
20 TMP Methylene chloride	1.479	1.773	-19.9	88	0.00
21 TMP t-Butyl alcohol (TBA)	2.668	2.516	5.7	77	0.00
22 TMP 3-Chloropropene	2.056	1.832	10.9	71	0.00
23 TMP CFC-113	3.469	3.472	-0.1	75	0.00
24 TMP Carbon disulfide	5.167	4.691	9.2	65	-0.03
25 TMP Methyl t-butyl ether (MTBE)	3.434	2.964	13.7	66	0.00
26 TMP Vinyl acetate	3.801	3.418	10.1	68	0.00
27 TMP 1,1-Dichloroethane	3.342	3.204	4.1	74	0.00
28 TMP cis-1,2-Dichloroethene	1.690	1.472	12.9	70	0.00
29 TMP Hexane	2.068	1.664	19.5	64	0.00
30 TMP Chloroform	4.060	3.863	4.9	77	-0.02
31 TMP Ethyl acetate	3.789	3.294	13.1	69	0.00
32 TMP Tetrahydrofuran	1.809	1.558	13.9	71	-0.01
33 TMP 2-Butanone (MEK)	0.619	0.589	4.8	72	0.00
34 TMP 1,2-Dichloroethane (EDC)	2.687	2.569	4.4	78	0.00
35 TMP 1,1,1-Trichloroethane	3.343	3.473	-3.9	76	0.00
36 TMP Carbon tetrachloride	3.523	3.739	-6.1	80	0.00
37 TMP Benzene	5.688	4.777	16.0	70	0.00
38 TMP Cyclohexane	1.367	1.082	20.8	60	-0.02
39 I 1,4-Difluorobenzene	1.000	1.000	0.0	73	0.00
40 TMP 1,2-Dichloropropane	0.541	0.547	-1.1	73	0.00
41 TMP 1,4-Dioxane	0.230	0.213	7.4	70	0.00
42 TMP 2,2,4-Trimethylpentane	1.598	1.426	10.8	62	0.00
43 TMP Methyl methacrylate	0.485	0.476	1.9	67	0.00



Evaluate Continuing Calibration Report

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121603.D  
 Acq On : 16 Dec 2022 3:55 pm  
 Operator : bat  
 Sample : 02-2970 lcs/ 2.5 ppbv 68-40a  
 Misc : Cal line  
 ALS Vial : 3 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:10 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 140%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TMP Heptane	0.663	0.626	5.6	66	0.00
45 TMP Bromodichloromethane	0.850	0.967	-13.8	77	0.00
46 TMP Trichloroethene	0.593	0.594	-0.2	75	0.00
47 TMP cis-1,3-Dichloropropene	0.599	0.616	-2.8	69	0.00
48 TMP 4-Methyl-2-pentanone	0.044	0.044	0.0	71	0.00
49 TMP trans-1,3-Dichloropropene	0.563	0.597	-6.0	72	0.00
50 TMP Toluene	0.707	0.674	4.7	67	0.00
51 TMP 1,1,2-Trichloroethane	0.550	0.566	-2.9	75	0.00
52 TMP 2-Hexanone	0.846	0.838	0.9	71	0.00
53 TMP Tetrachloroethene	0.490	0.535	-9.2	76	0.00
54 TMP Dibromochloromethane	0.861	0.988	-14.8	79	0.00
55 TMP 1,2-Dibromoethane (EOB)	0.824	0.825	-0.1	75	0.00
56 I Chlorobenzene-d5	1.000	1.000	0.0	76	0.00
57 TMP Chlorobenzene	1.101	1.118	-1.5	74	0.00
58 TMP Ethylbenzene	1.968	1.601	18.6	65	0.00
59 TMP 1,1,2,2-Tetrachloroethane	1.394	1.474	-5.7	79	0.00
60 TMP Nonane	0.981	0.816	16.8	59#	0.02
61 TMP Isopropylbenzene	1.792	1.760	1.8	67	0.00
62 TMP 2-Chlorotoluene	0.448	0.434	3.1	68	0.00
63 TMP Propylbenzene	3.292	3.134	4.8	64	0.00
64 TMP 4-Ethyltoluene	1.611	1.354	16.0	62	0.00
65 TMP m,p-Xylene	0.633	0.574	9.3	65	0.00
66 TMP o-Xylene	0.615	0.577	6.2	67	0.00
67 TMP Styrene	0.819	0.700	14.5	62	0.00
68 TMP Bromoform	1.028	1.169	-13.7	81	0.00
69 S 4-Bromofluorobenzene	0.693	0.713	-2.9	73	0.00
70 TMP Benzyl chloride	0.987	1.235	-25.1	77	0.00
71 TMP 1,3,5-Trimethylbenzene	1.450	1.514	-4.4	70	0.00
72 TMP 1,2,4-Trimethylbenzene	1.247	1.052	15.6	59#	0.00
73 TMP 1,3-Dichlorobenzene	1.012	1.032	-2.0	72	0.00
74 TMP 1,4-Dichlorobenzene	0.947	0.931	1.7	71	0.00
75 TMP 1,2-Dichlorobenzene	1.024	1.067	-4.2	73	0.00
76 TMP 1,2,4-Trichlorobenzene	0.626	0.429	31.5#	60	0.00
77 TMP Naphthalene	1.132	0.476	58.0#	51#	0.00
78 TMP Hexachlorobutadiene	1.045	1.161	-11.1	83	0.00

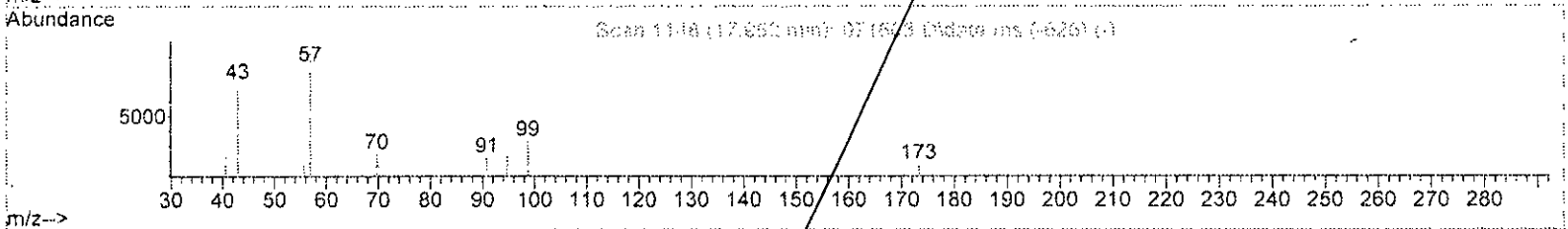
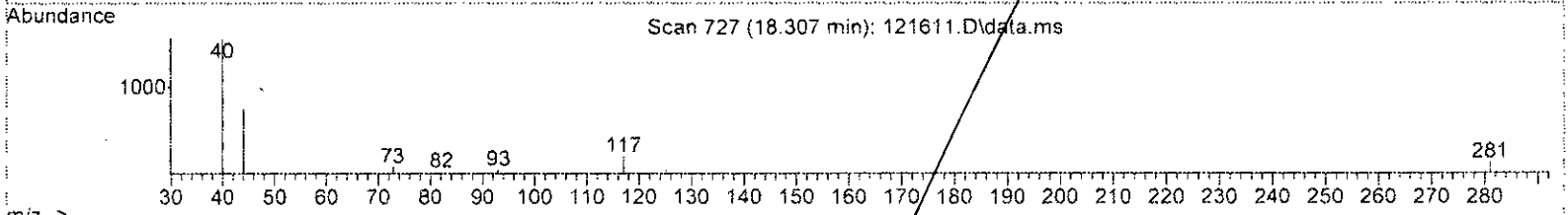
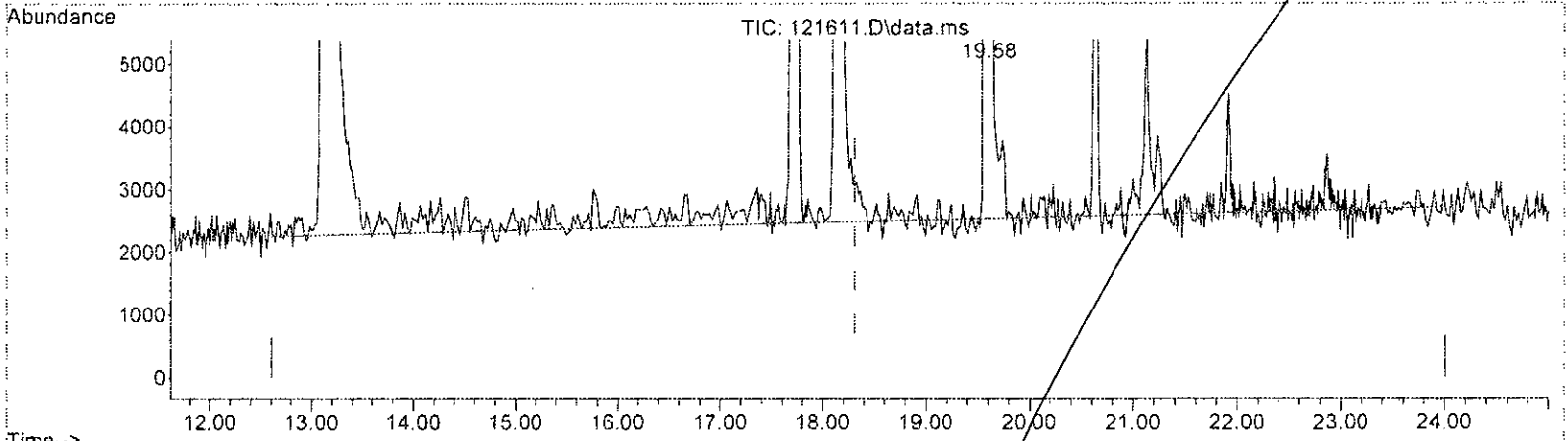
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:09:40 2022  
 Quant Method : D:\GCMS7 Methods\1216GA580silox7.M  
 Quant Title : TO-15 method  
 Qlast Update : Mon Dec 19 18:05:16 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121611.D\data.ms

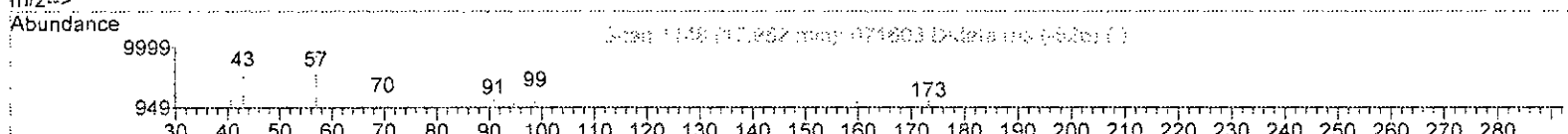
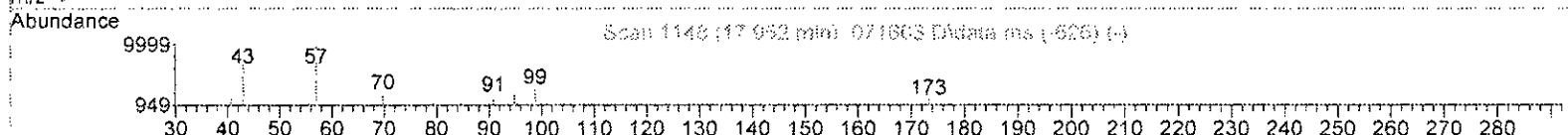
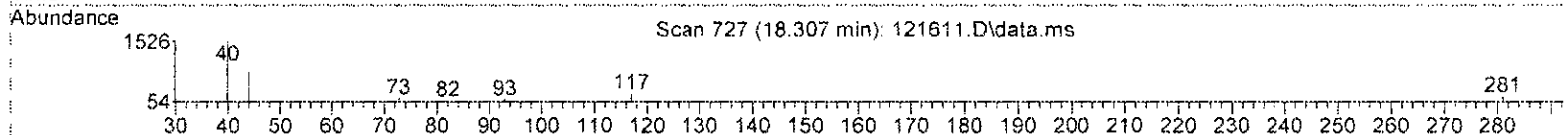
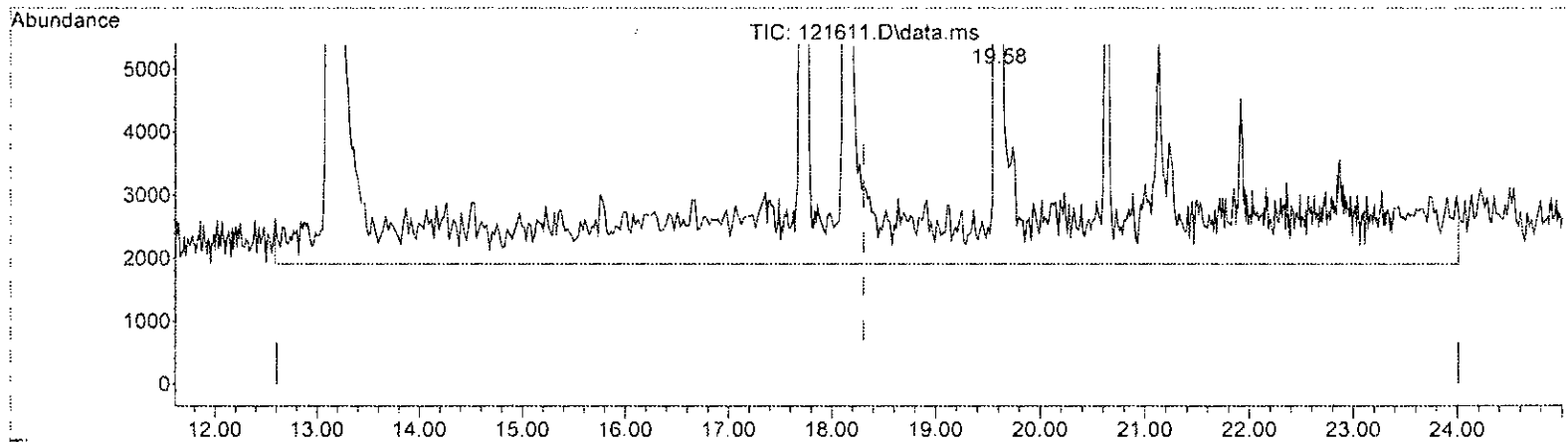
(5) NWIPH-Gx (HMP)		
18.310min ( 0.000)	2.328 ppbv m	
response	58253	
Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*h*  
*calculated*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:09:40 2022  
 Quant Method : D:\GCMS7 Methods\1216GAS80silox7.M  
 Quant Title : TO-15 method  
 QLast Update : Mon Dec 19 18:05:16 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121611.D\data.ms

(5) NWTPH-Gx (HMP)  
 18.310min ( 0.000) 78.430 ppbv m  
 response 1962219

Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*M*  
*10/10/22*

Area Percent Report

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : D:\GCMS7 Methods\1216GAS80silox7.M  
 Title : TO-15 method

Signal : TIC: 121611.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.922	14	21	27	rBV4	1198	17813	3.22%	0.838%
2	4.320	27	31	37	rVB4	1876	23426	4.24%	1.101%
3	7.304	131	140	149	rBV	11120	56644	10.24%	2.663%
4	9.864	237	243	257	rBV	96289	372661	67.38%	17.521%
5	13.142	482	493	513	rBV	121056 <sub>b</sub>	481231	87.01%	22.626%
6	17.716	685	694	702	rBV	45067 <sub>e</sub>	128740	23.28%	6.053%
7	18.130	713	718	734	rVB	193201 <sub>c</sub>	553073	100.00%	26.004%
8	19.578	787	792	798	rBV	205241 <sub>d</sub>	470246	85.02%	22.109%
9	20.638	852	856	860	rVB	9182 <sub>f</sub>	23062	4.17%	1.084%

Sum of corrected areas: 2126896

Signal : TIC: 121611.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.888	17	20	27	rBV2	666	6311	32.71%	10.425%
2	4.246	27	29	43	rVB3	1490	19291	100.00%	31.868%
3	5.591	65	71	78	rBV3	1070	5966	30.93%	9.855%
4	6.232	96	99	104	rVV3	347	1942	10.07%	3.209%
5	7.284	134	139	141	rBV	412	2193	11.37%	3.623%
6	12.415	449	452	459	rBV2	307	3131	16.23%	5.172%
7	13.130	488	492	505	rBV	1737	6974	36.15%	11.521%
8	13.577	515	516	518	rBV	198	1062	5.51%	1.754%
9	18.136	715	718	732	rBV	3975	10650	55.21%	17.593%
10	19.584	789	792	796	rBV	705	1811	9.39%	2.992%
11	23.415	1138	1139	1140	rBV	399	1204	6.24%	1.989%

Sum of corrected areas: 60535

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:09:40 2022  
 Quant Method : D:\GCMS7 Methods\1216GAS80silox7.M  
 Quant Title : T0-15 method  
 QLast Update : Mon Dec 19 18:05:16 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	46293	10.000	ppbv	#-0.02
2) 1,4-Difluorobenzene	13.14	114	184657	10.000	ppbv	0.00
3) Chlorobenzene-d5	18.13	117	166712	10.000	ppbv	0.00
System Monitoring Compounds						
4) 4-Bromofluorobenzene	19.58	95	95663	9.005	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	90.10%
Target Compounds						
5) NWTPH-Gx	18.31	TIC	1962219m	78.430	ppbv	Qvalue

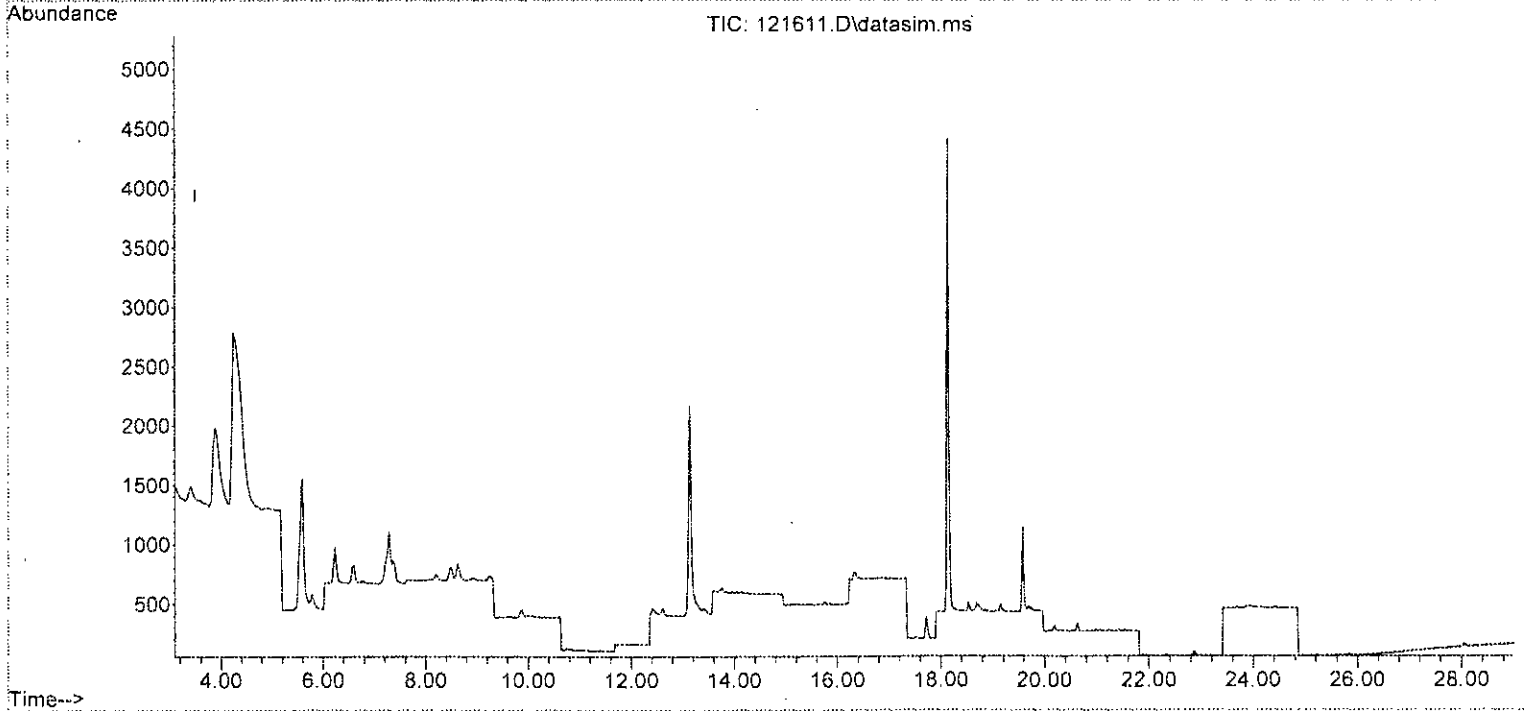
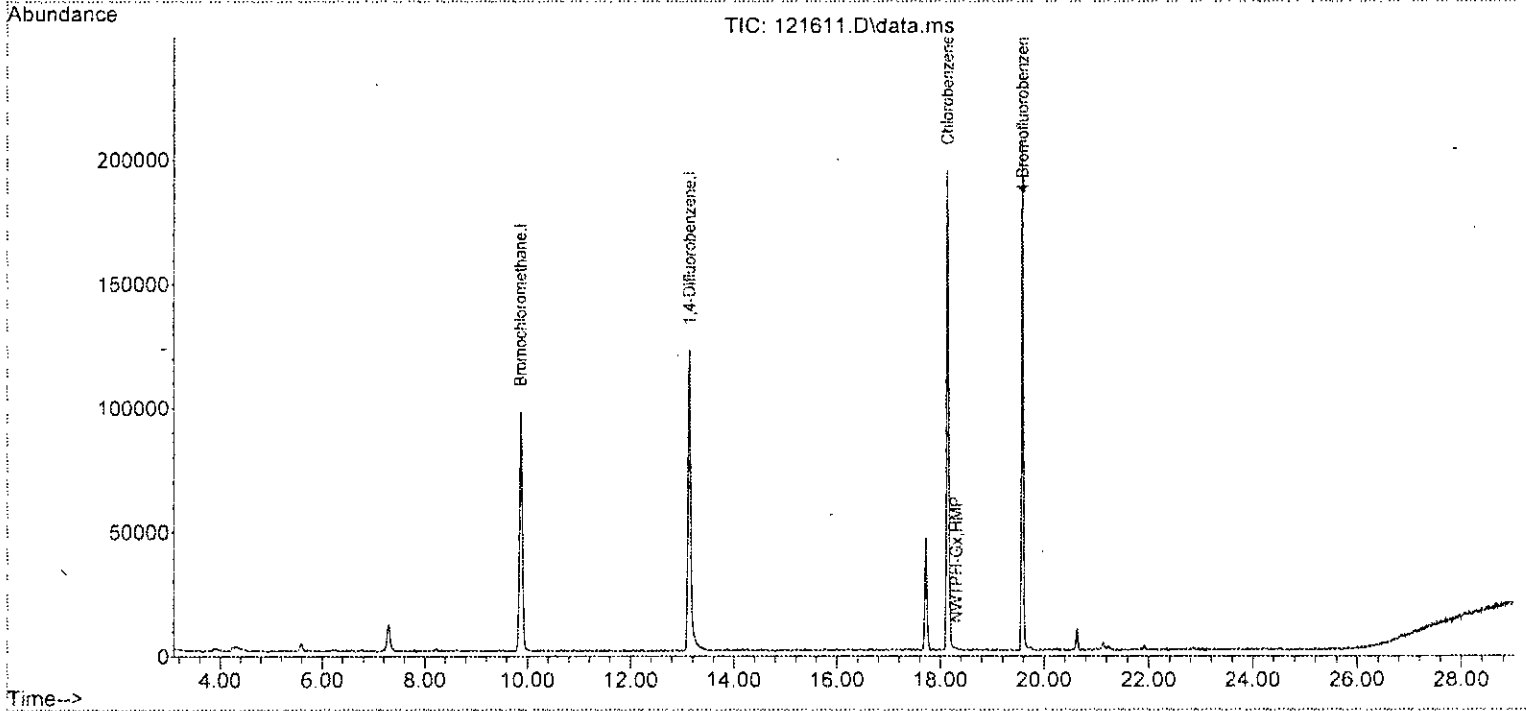
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*280 ppbv*

*12/19/22*

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

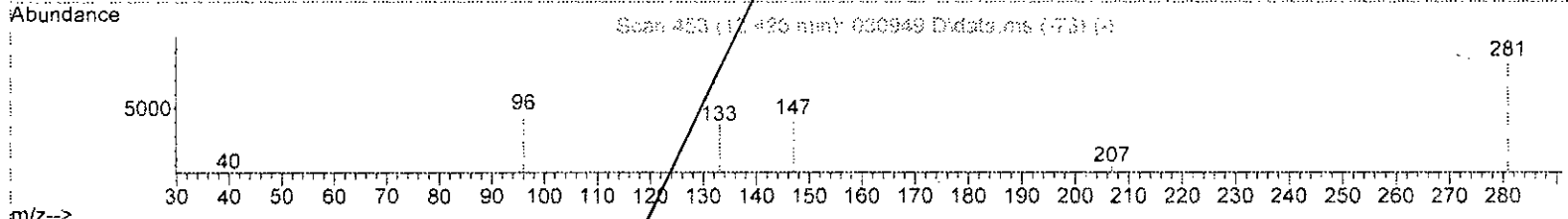
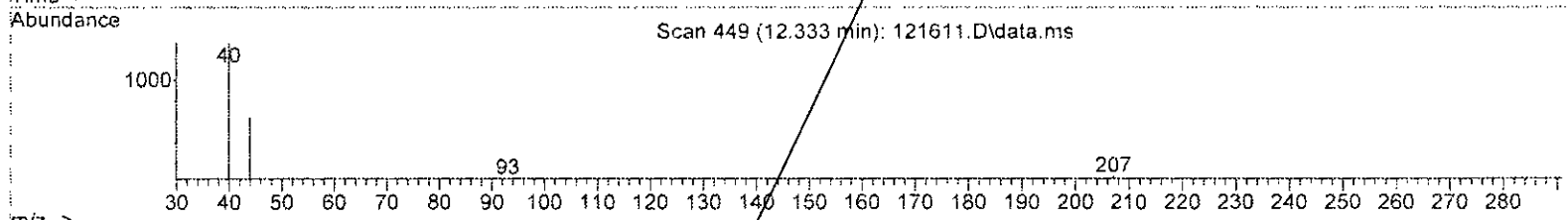
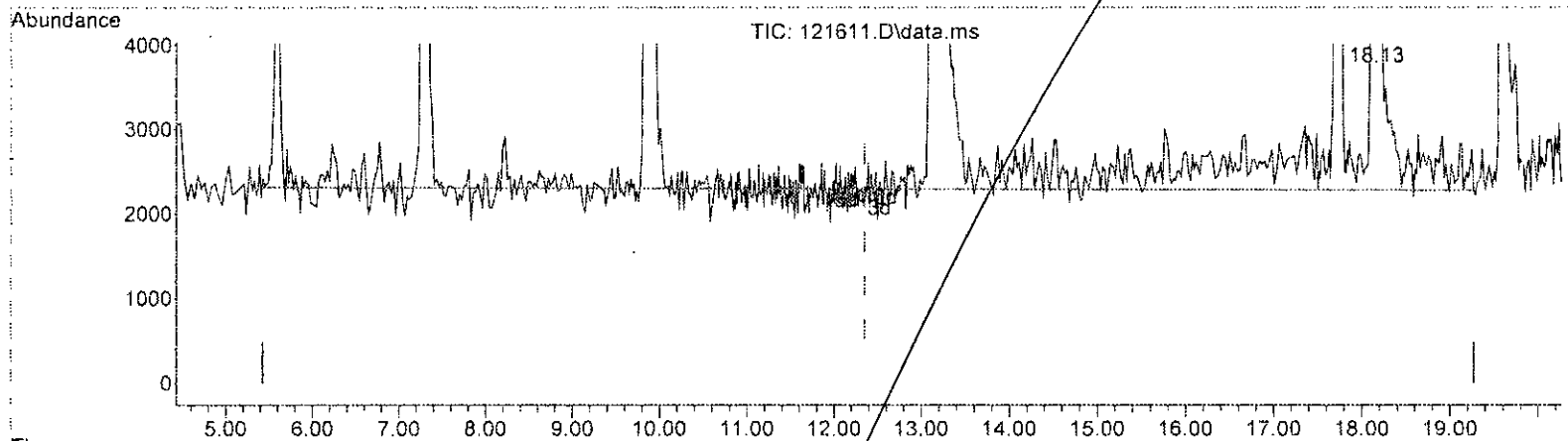
Quant Time: Dec 19 18:09:40 2022  
 Quant Method : D:\GCMS7 Methods\1216GAS80silox7.M  
 Quant Title : TO-15 method  
 QLast Update : Mon Dec 19 18:05:16 2022  
 Response via : Initial Calibration  
 DataAcq Meth: TO15DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:10:29 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121611.D\data.ms

(19) APH EC5-8 aliphatics (H)

12.350min ( 0.000) 28.111 ug/m3 m

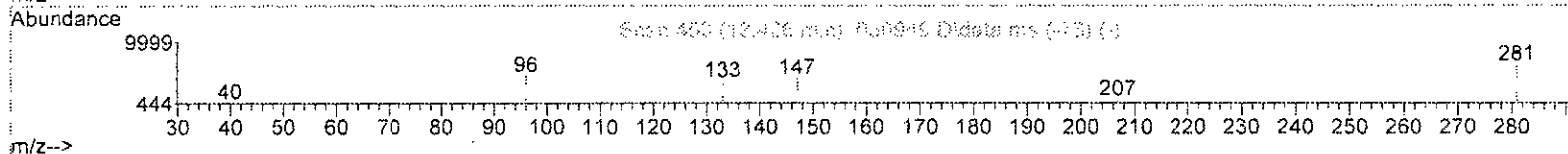
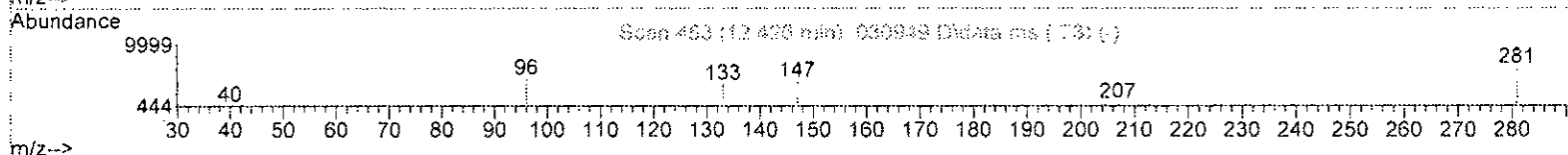
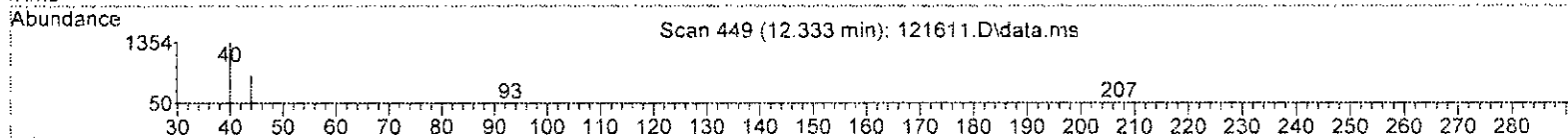
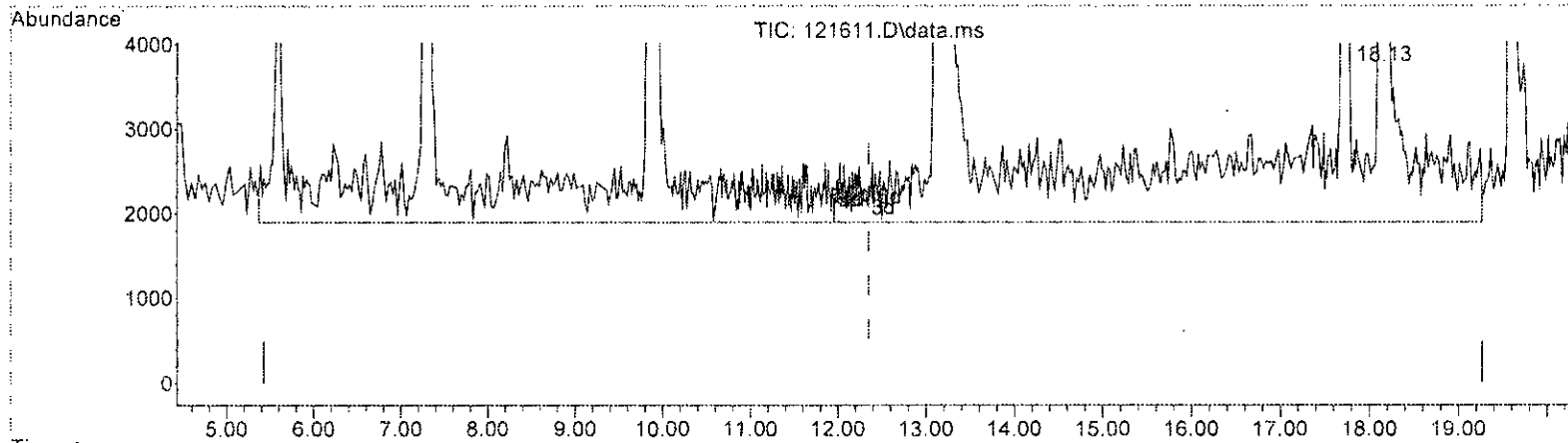
response	369905
Signal	Exp% Act%
TIC	100.00 100.00
0.00	0.00 0.00
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:10:29 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth: TO15DC.M



TIC: 121611.D\data.ms

(19) APH EC5-8 aliphatics (H)			
12.350min	( 0.000)	160.806 ug/m3	m
response	2116015		
Signal	Exp%	Act%	
TIC	100.00	100.00	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	

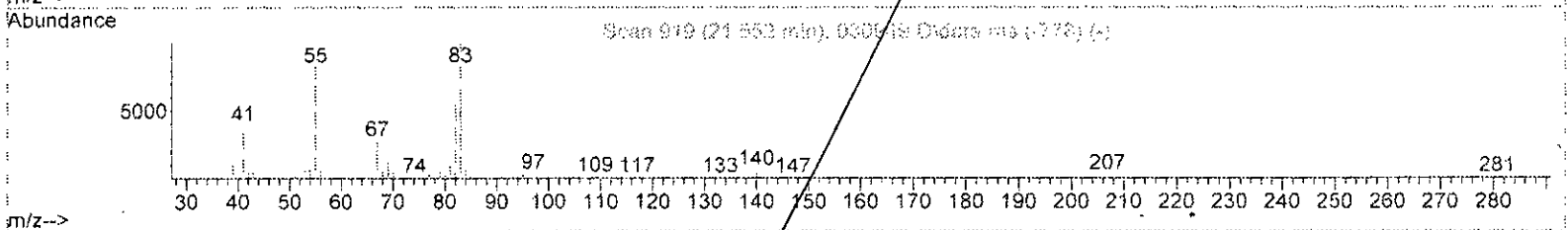
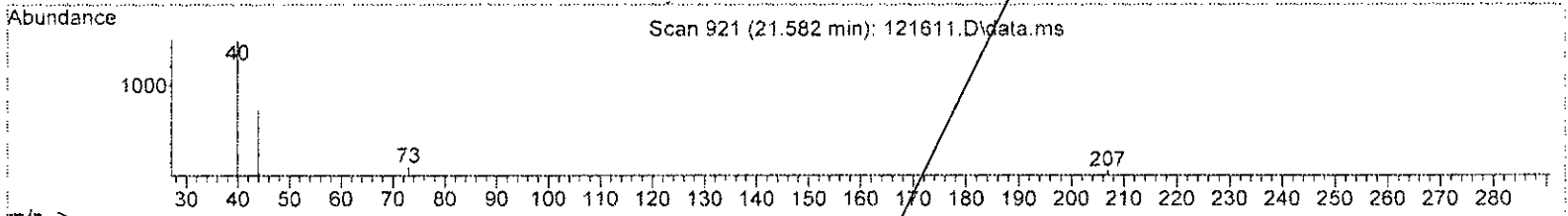
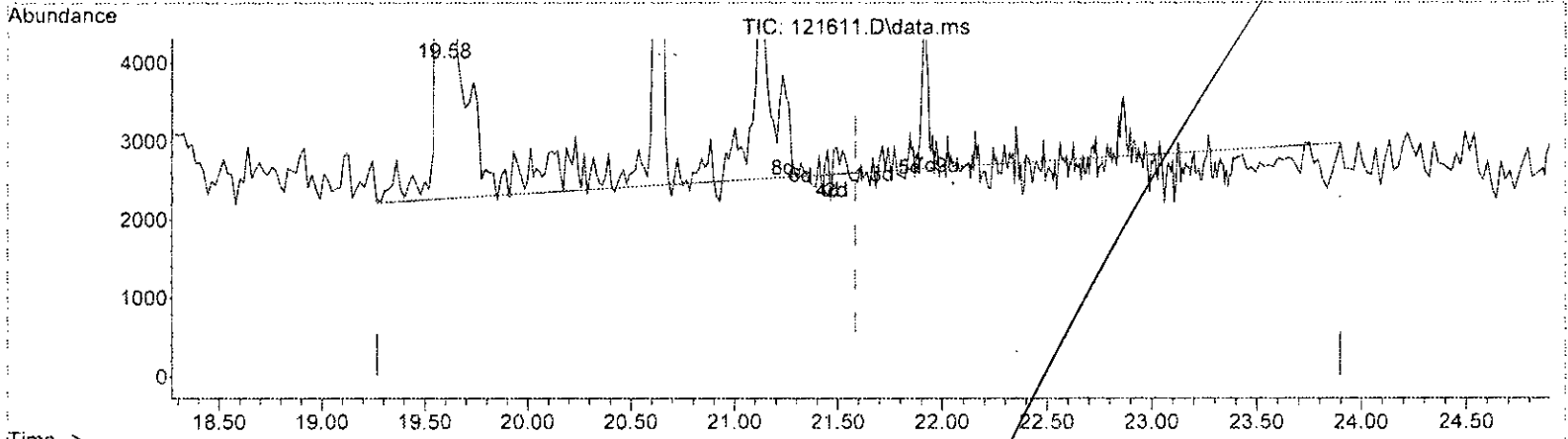
*bat*



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:10:29 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH T0-15 method  
 Qlast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121611.D\data.ms

(36) APH EC9-12 aliphatics (H)

21.585min ( 0.000) -8.539 ug/m3 m

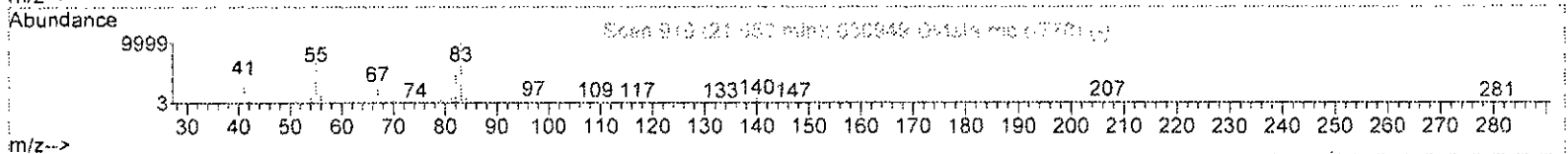
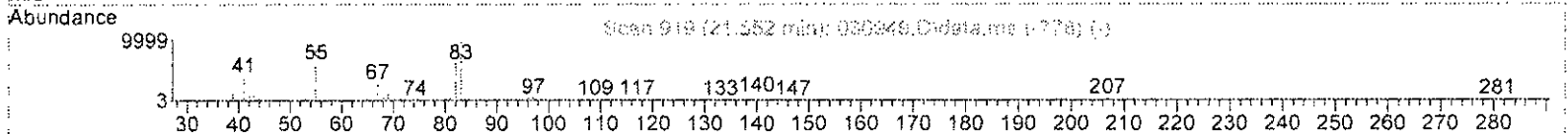
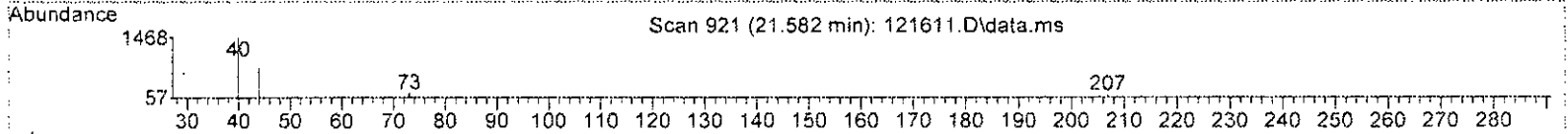
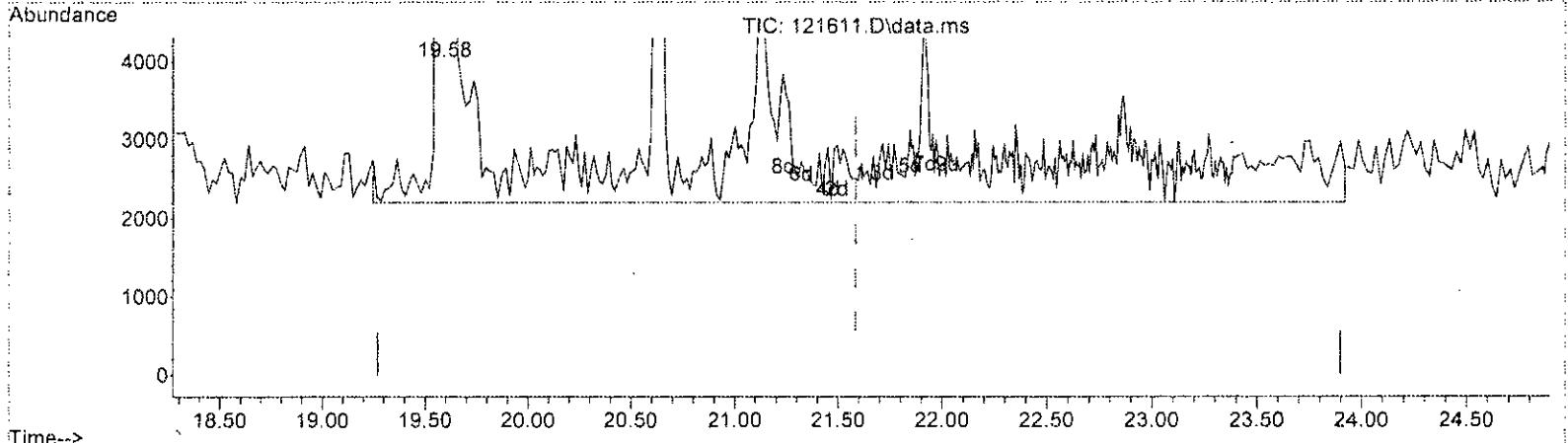
response	Exp%	Act%
-122105		
Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	-0.00
0.00	0.00	-0.00
0.00	0.00	-0.00

*Handwritten note: 6/19/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:10:29 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121611.D\data.ms

(36) APH EC9-12 aliphatics (H)  
 21.585min ( 0.000) 31.947 ug/m3 m

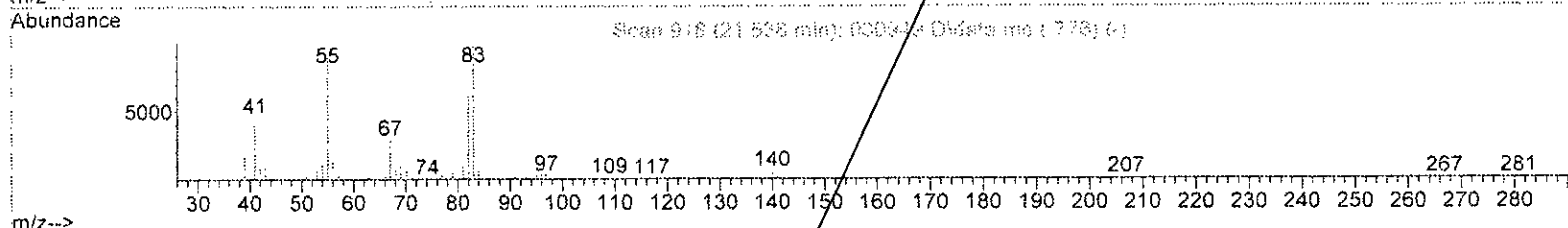
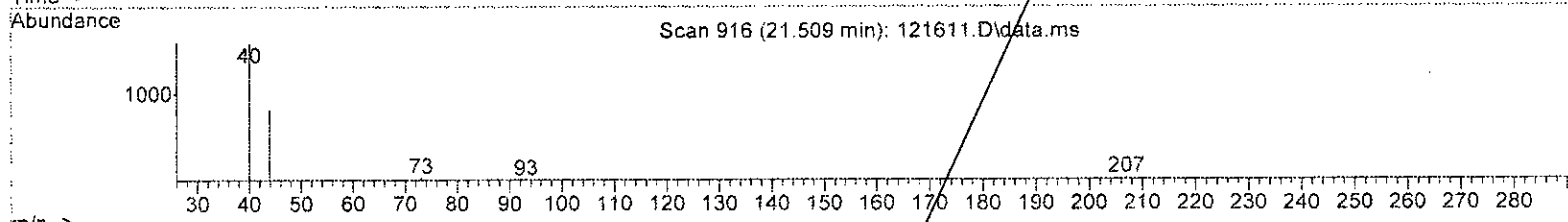
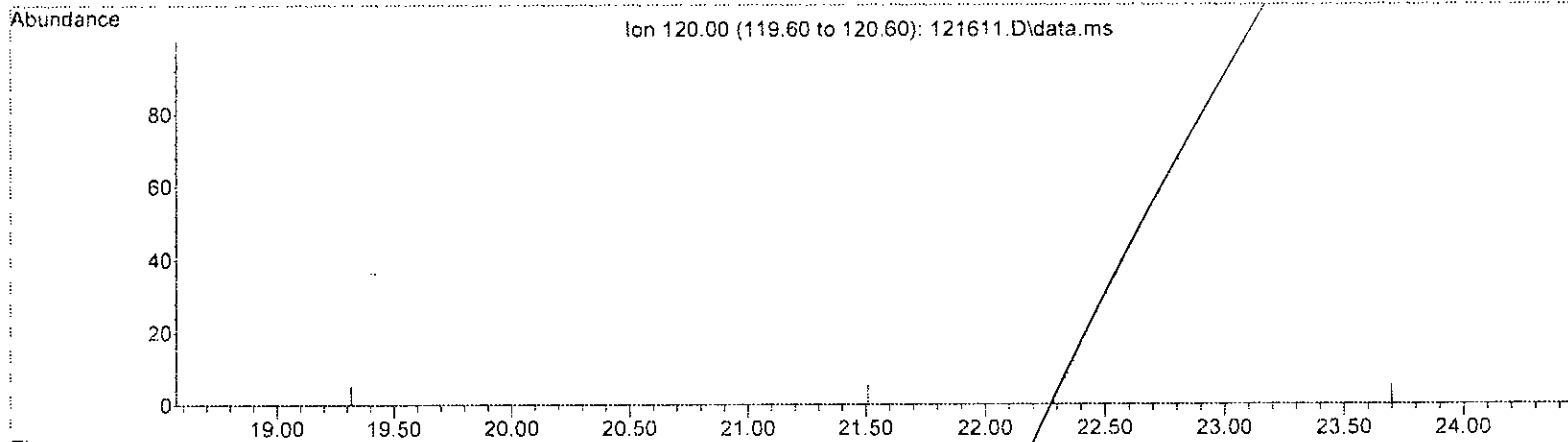
response	456813	
Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:10:29 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121611.D\data.ms

(44) APH EC9-10 aromatics (1) (H)  
 21.509min ( 0.000) -235.242 ug/m3 m  
 response -468191

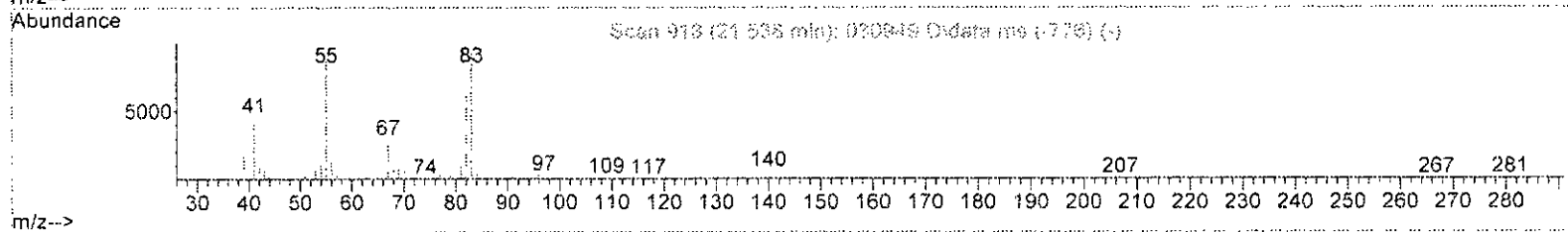
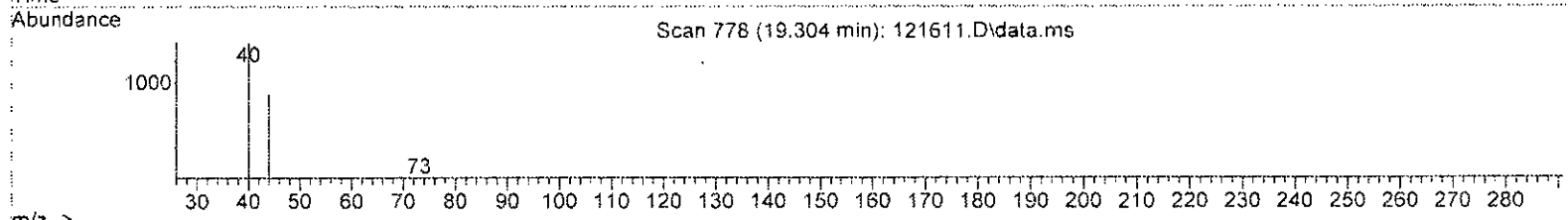
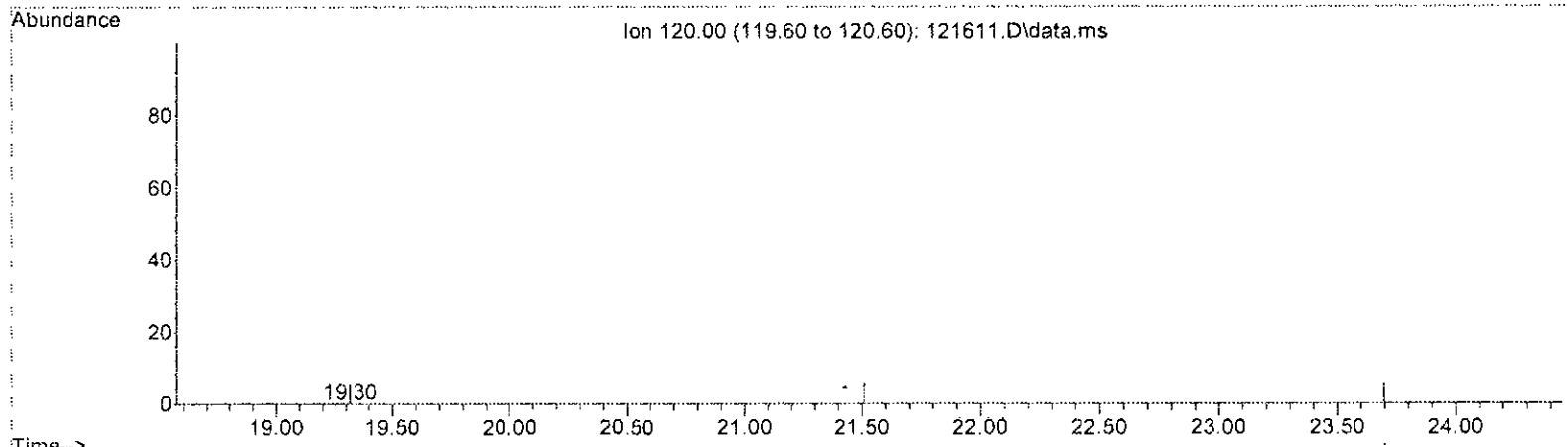
Ion	Exp%	Act%
120.00	100.00	100.00
0.00	0.00	-0.00
0.00	0.00	-0.00
0.00	0.00	-0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:10:29 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth: TO15DC.M



TIC: 121611.D\data.ms

(44) APH EC9-10 aromatics (1) (H)  
 21.509min ( 0.000) 0.000 ug/m3 m  
 response 0

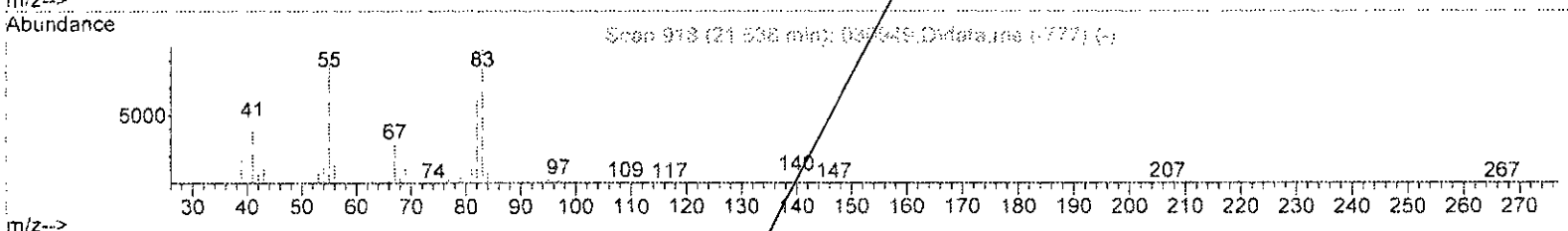
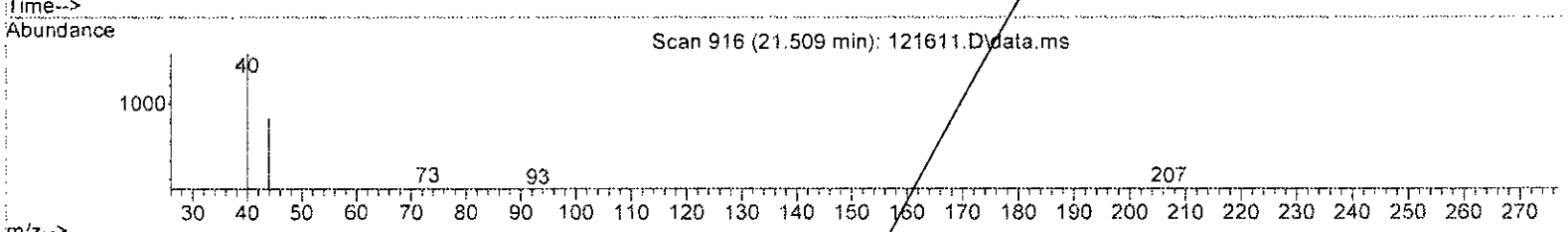
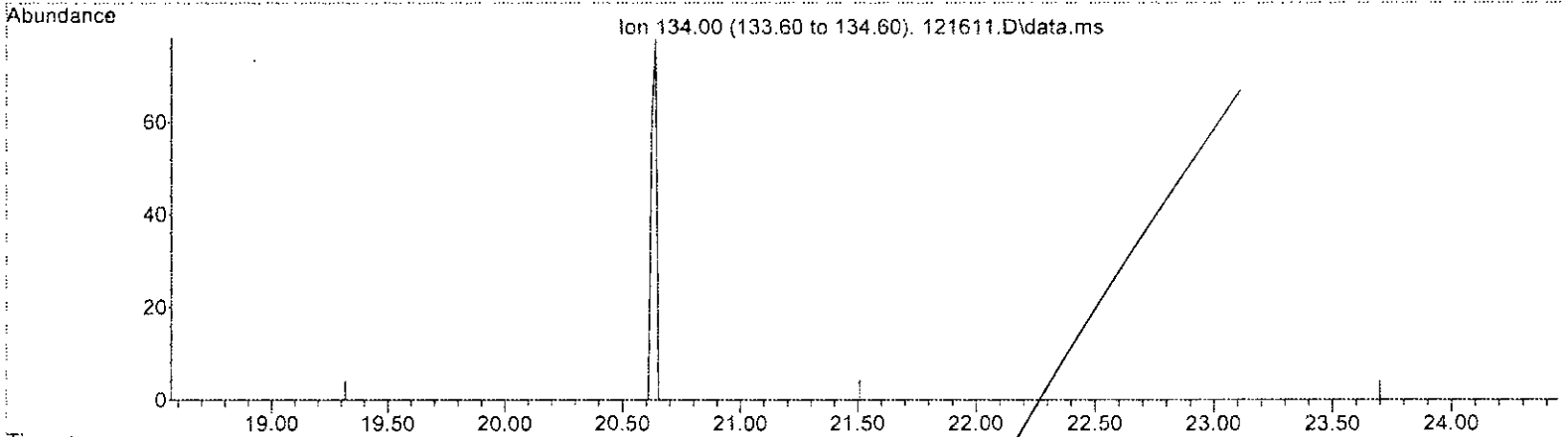
Ion	Exp%	Act%
120.00	100.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: W. H. H.*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:10:29 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121611.D\data.ms

(45) APH EC9-10 aromatics (2) (H)  
 21.509min ( 0.000) -404.931 ug/m3 m  
 response -468093

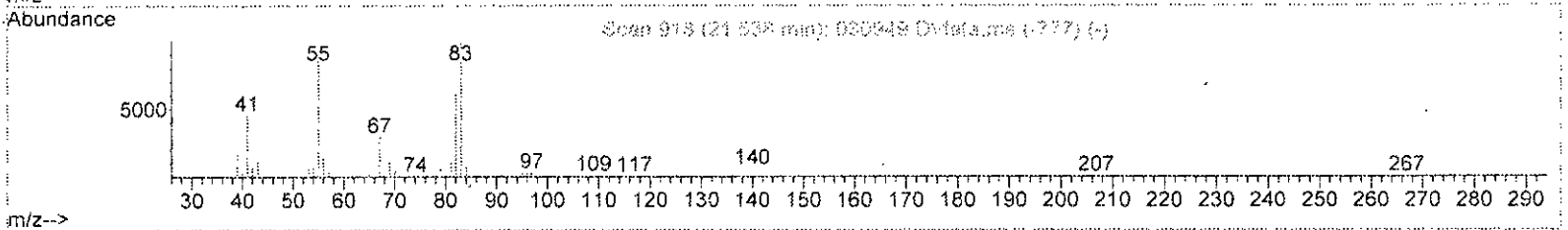
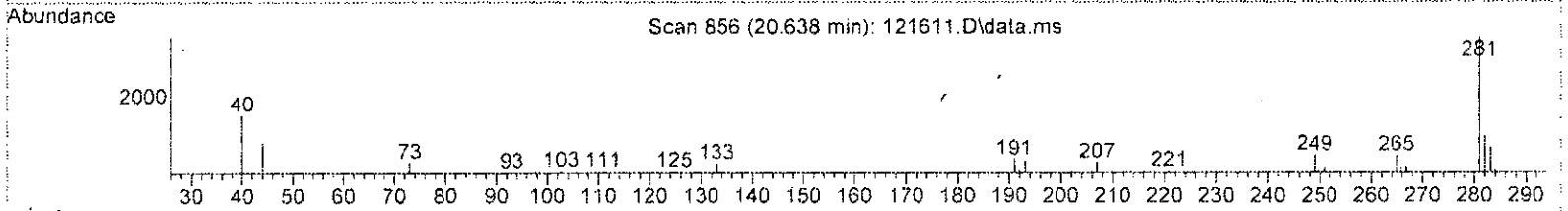
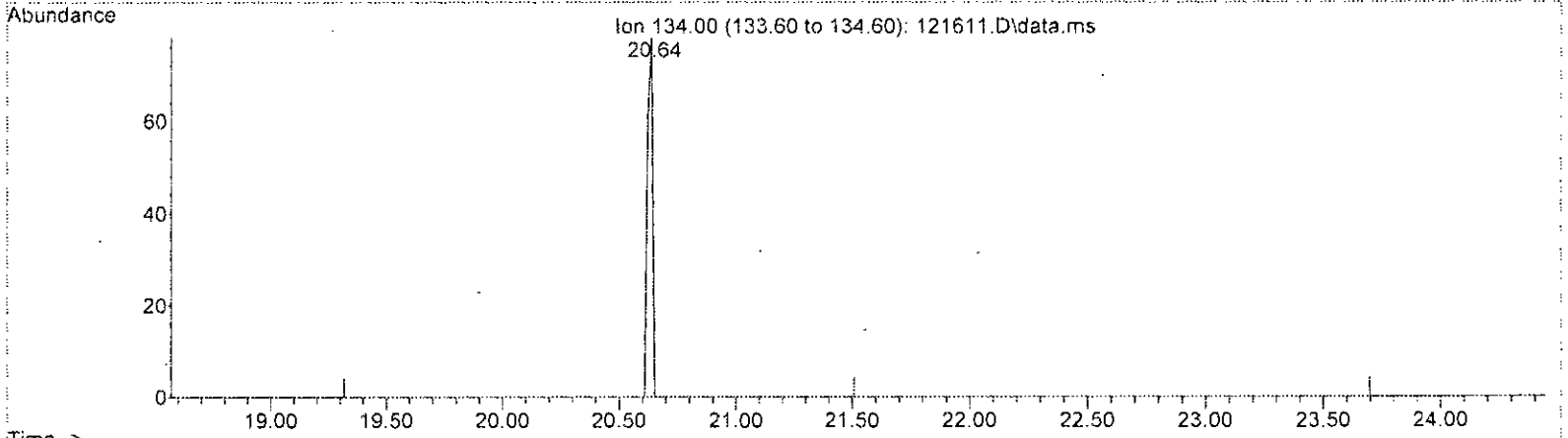
Ion	Exp%	Act%
134.00	100.00	100.00
0.00	0.00	-0.00
0.00	0.00	-0.00
0.00	0.00	-0.00

*Handwritten signature/initials*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:10:29 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth: TO15DC.M



TIC: 121611.D\data.ms

(45) APH EC9-10 aromatics (2) (H)

21.509min ( 0.000) 0.085 ug/m3 m

response 98

Ion	Exp%	Act%
134.00	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:10:29 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	46293	50.000	ug/m3	#-0.02
10) 1,4-Difluorobenzene	13.14	114	184657	50.000	ug/m3	0.00
20) Chlorobenzene-d5	18.13	117	166712	50.000	ug/m3	0.00
System Monitoring Compounds						
37) 4-Bromofluorobenzene	19.58	95	95663	59.354	ug/m3	0.00
Spiked Amount	71.000	Range	70 - 130	Recovery	=	83.59%
Target Compounds						
						Qvalue
2) IS-1 Bromochloromethane	9.86	TIC	373369	50.825	ug/m3	91
3) IS-2 1,4-Difluorobenzene	13.14	TIC	481042	49.240	ug/m3	95
4) IS-3 Chlorobenzene-d5	18.13	TIC	553073	45.447	ug/m3	95
5) Methylene chloride	6.78	TIC	4558	27.650	ug/m3	84
6) Acetone	5.59	TIC	16154	11.621	ppbv	100
7) 2-Propanol	5.70	TIC	3819	0.589	ppbv	100
8) 1,3-Butadiene	0.00		0	N.D.		
9) Methyl t-butyl ether	0.00		0	N.D.		
11) Benzene	12.61	78	160	0.023	ug/m3	61
12) Isopentane	5.59	TIC	14559	1.185	ug/m3	85
13) Hexane	0.00		0	N.D.	d	
14) Cyclohexane	0.00		0	N.D.	d	
15) 2,3-Dimethylpentane	0.00		0	N.D.	d	
16) Heptane	0.00		0	N.D.	d	
17) Octane	0.00		0	N.D.	d	
18) APH EC5-8 aliphatics T...	12.39	TIC	14559m	1.106	ug/m3	
19) APH EC5-8 aliphatics	12.35	TIC	2116015m	160.806	ug/m3	
21) S 4-Bromofluorobenzene	19.58	TIC	470246	42.345	ug/m3	95
22) Hexamethylcyclotrisilo...	17.72	TIC	129007	41.043	ppbv	100
23) Octamethylcyclotetrasil...	20.64	TIC	23062	32.655	ppbv	100
24) Toluene	0.00		0	N.D.		
25) Ethylbenzene	18.52	91	80	0.012	ug/m3#	44
26) m,p-Xylene	0.00		0	N.D.		
27) o-Xylene	0.00		0	N.D.		
28) Naphthalene	0.00		0	N.D.		
29) 2,3-Dimethylheptane	0.00		0	N.D.	d	
30) Nonane	0.00		0	N.D.	d	
31) Decane	0.00		0	N.D.	d	
32) Butylcyclohexane	0.00		0	N.D.	d	
33) Undecane	0.00		0	N.D.	d	
34) Dodecane	0.00		0	N.D.	d	
35) APH EC9-12 aliphatics ...	21.61		0	N.D.		
36) APH EC9-12 aliphatics	21.59	TIC	456813m	31.947	ug/m3	
38) Isopropylbenzene	0.00		0	N.D.		
39) 1-Methyl-3-ethylbenzene	0.00		0	N.D.		
40) 1,3,5-Trimethylbenzene	0.00		0	N.D.		
41) p-Isopropyltoluene	0.00		0	N.D.		
42) 1,2,3-Trimethylbenzene	0.00		0	N.D.		

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 19 18:10:29 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

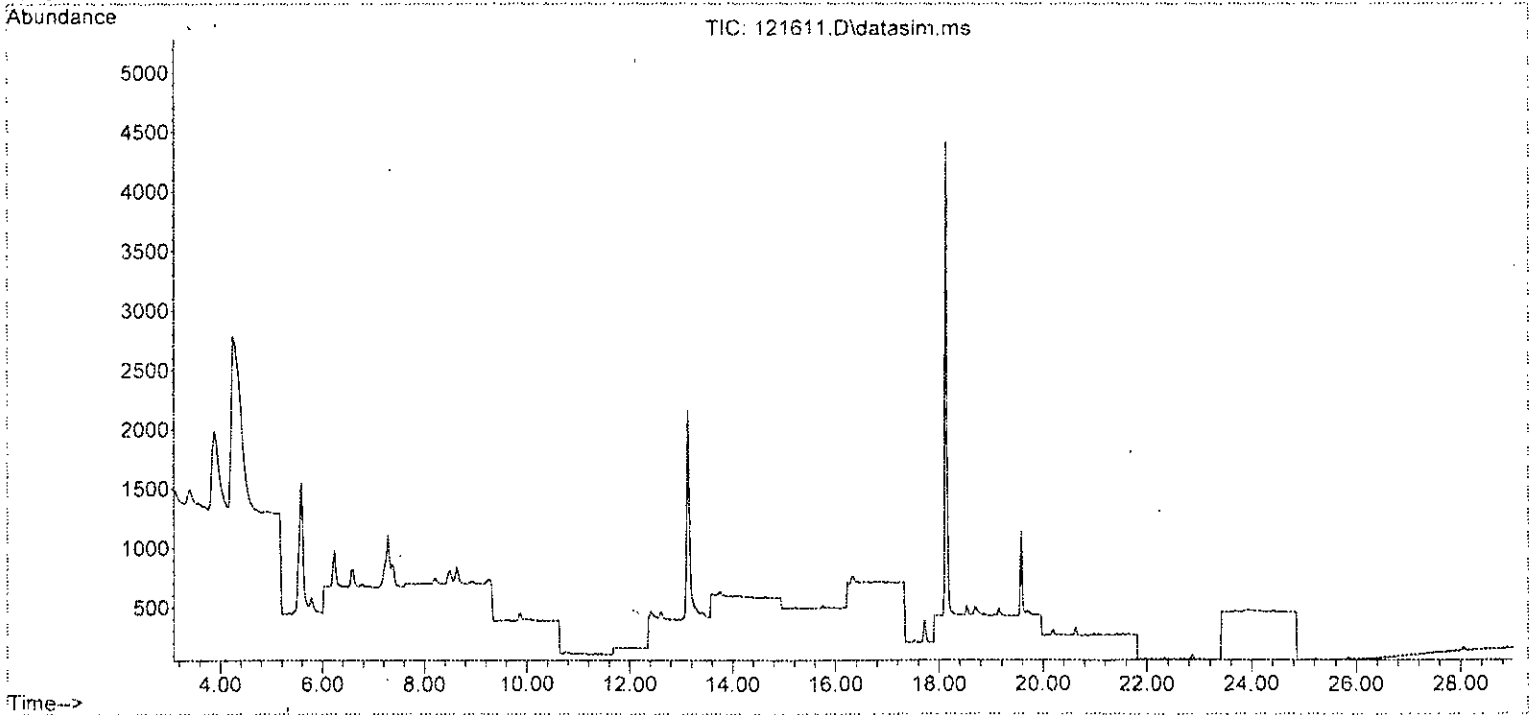
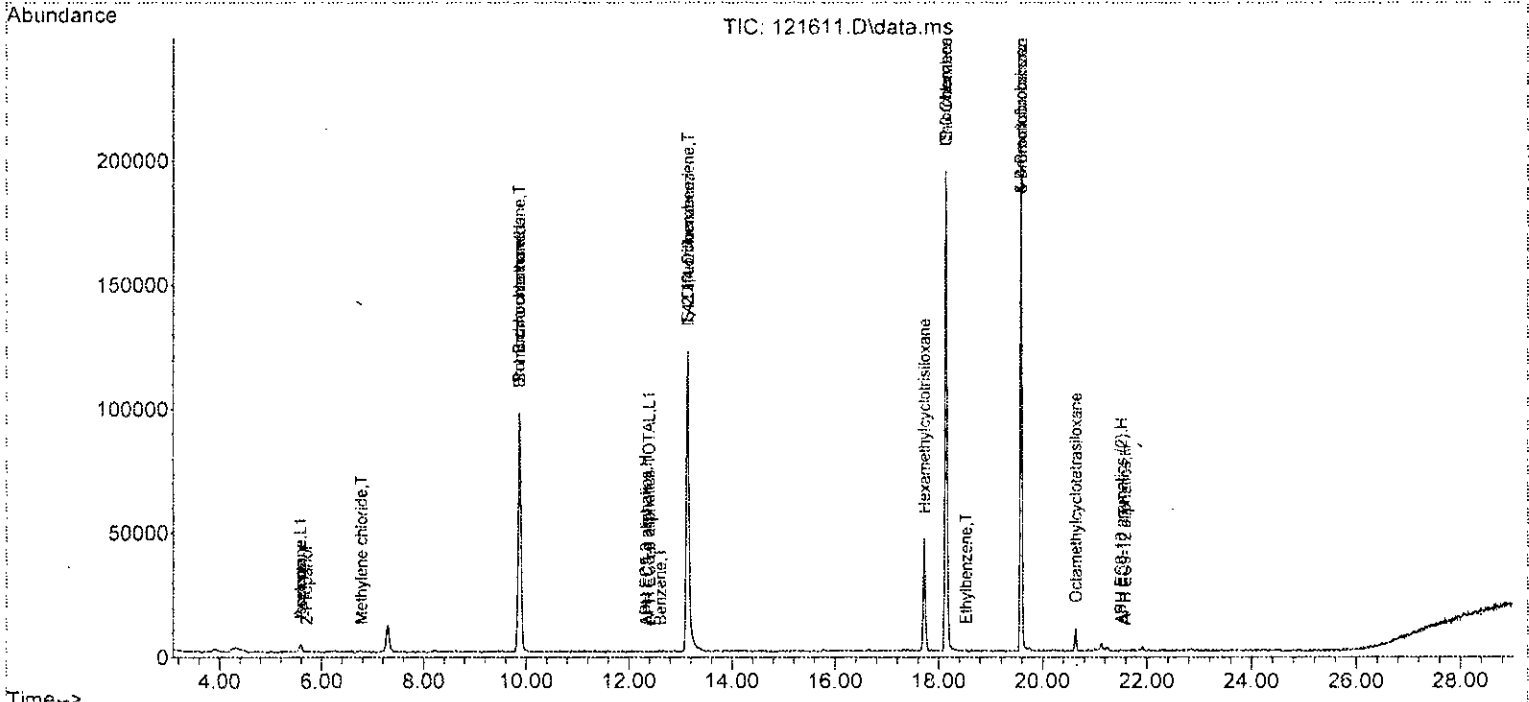
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) APH EC9-10 aromatics T...	21.49		0			N.D.
44) APH EC9-10 aromatics (1)	21.51		0			N.D.
45) APH EC9-10 aromatics (2)	21.51	134	98m	0.085	ug/m3	

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 3  
 InstName : GCMS7

Quant Time: Dec 19 18:10:29 2022  
 Quant Method : D:\GCMS7 Methods\1205APH7.M  
 Quant Title : APH TO-15 method  
 QLast Update : Tue Dec 06 14:39:29 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

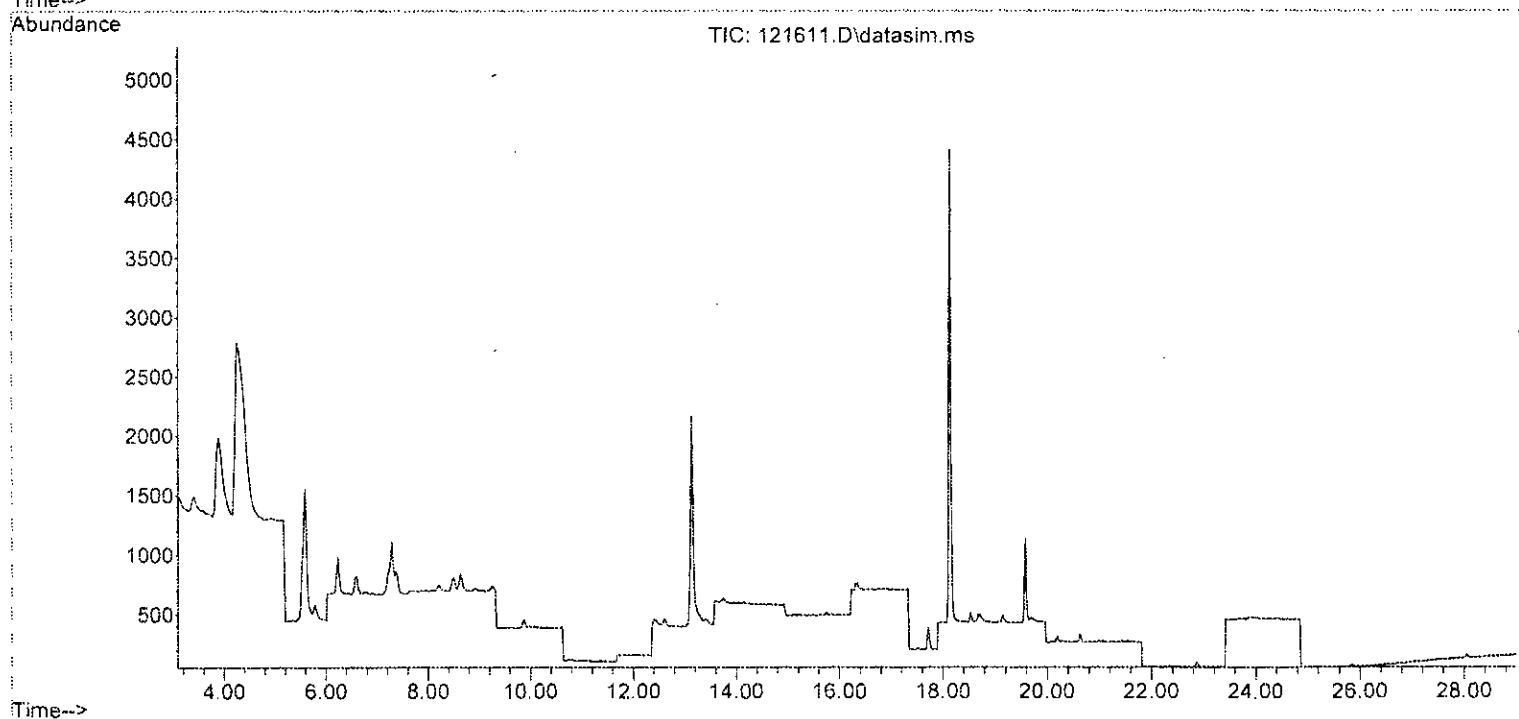
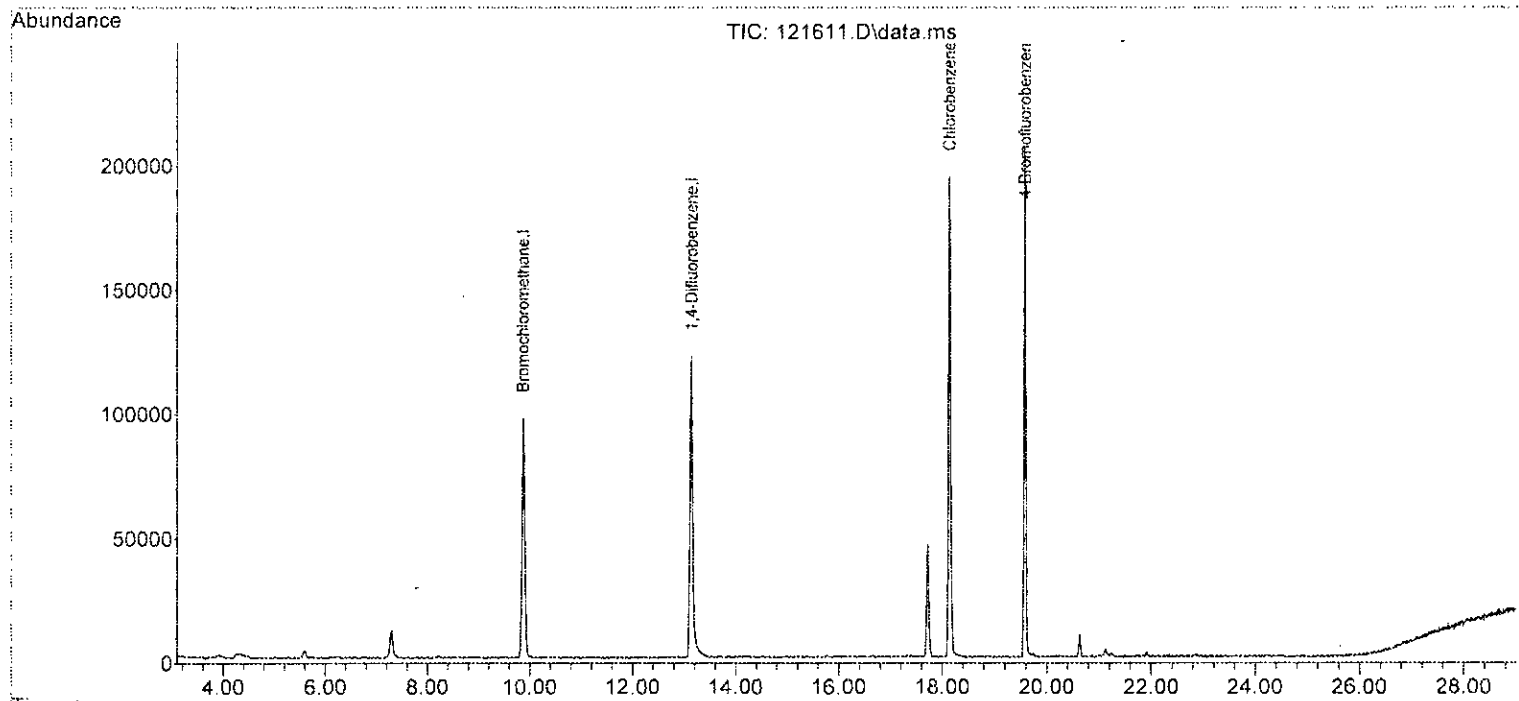
Quant Time: Dec 18 15:28:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

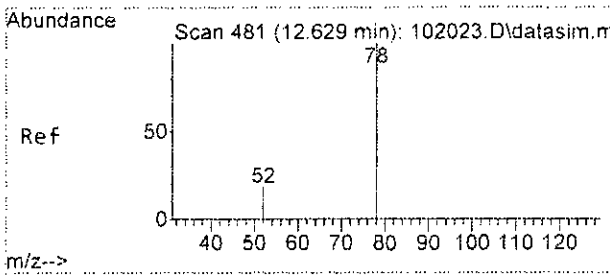
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	46293	10.000	ppbv	-0.02
39) 1,4-Difluorobenzene	13.14	114	184657	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	166712	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	95663	8.280	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	82.80%
Target Compounds						
37] Benzene	12.61	78	376	Below Cal		98
58] Ethylbenzene	18.53	91	148	Below Cal		97
77] Naphthalene	23.90	128	166m	Below Cal		
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

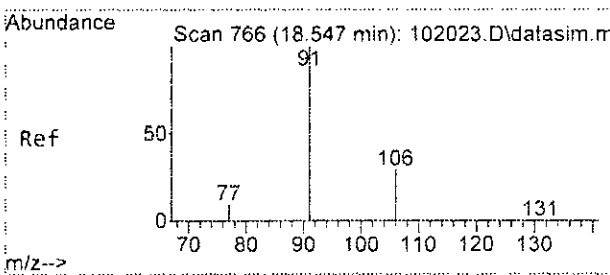
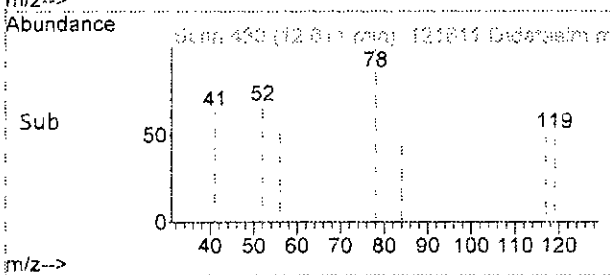
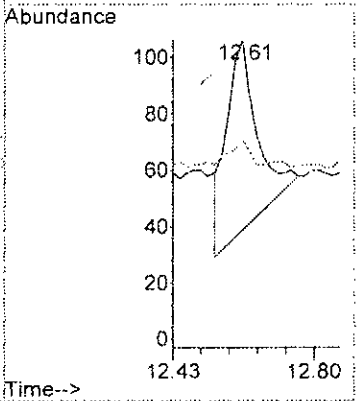
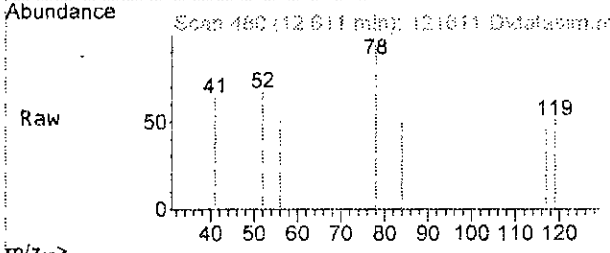
Quant Time: Dec 18 15:28:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M





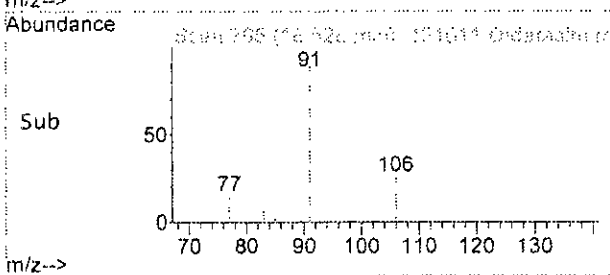
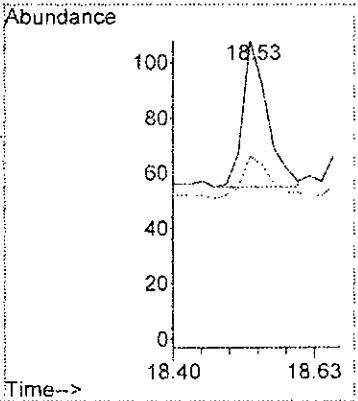
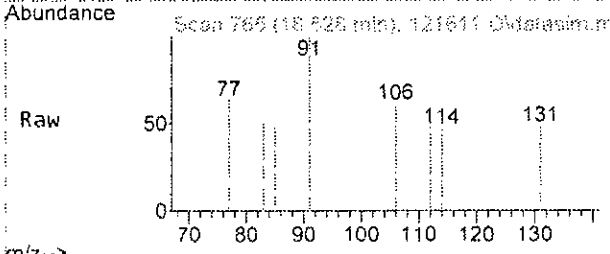
#37  
Benzene  
Concen: Below Cal  
RT: 12.61 min Scan# 480  
Delta R.T. 0.000 min  
Lab File: 121611.D  
Acq: 16 Dec 2022 9:15 pm

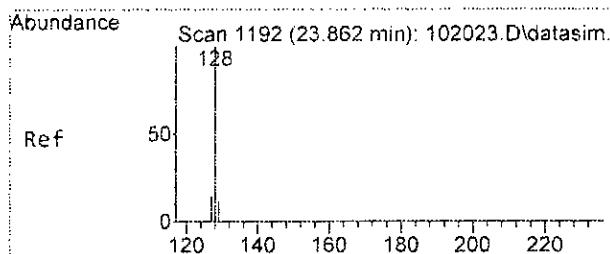
Tgt Ion: 78 Resp: 376  
Ion Ratio Lower Upper  
78 100  
52 18.8 0.0 49.7



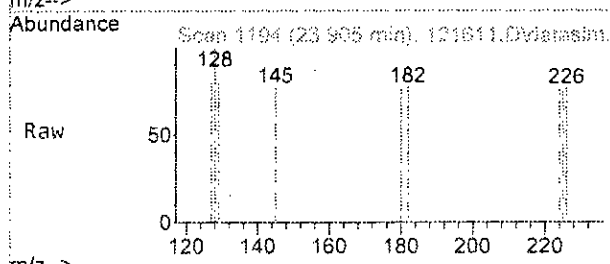
#58  
Ethylbenzene  
Concen: Below Cal  
RT: 18.53 min Scan# 765  
Delta R.T. 0.000 min  
Lab File: 121611.D  
Acq: 16 Dec 2022 9:15 pm

Tgt Ion: 91 Resp: 148  
Ion Ratio Lower Upper  
91 100  
106 28.3 0.0 57.0



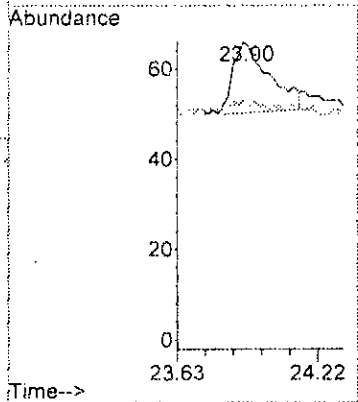
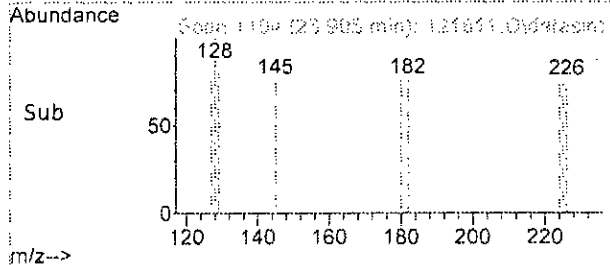


#77  
 Naphthalene  
 Concen: Below Cal m  
 RT: 23.90 min Scan# 1194  
 Delta R.T. 0.064 min  
 Lab File: 121611.D  
 Acq: 16 Dec 2022 9:15 pm



Tgt Ion: 128 Resp: 166

Ion	Ratio	Lower	Upper
128	100		
129	80.3	0.0	41.0#
127	78.8	0.0	43.2#



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	46293	10.000	ppbv	-0.02
39) 1,4-Difluorobenzene	13.14	114	184657	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	166712	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	95663	8.280	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	82.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0		N.D.	
3) Dichlorodifluoromethane	0.00		0		N.D.	
4) Chloromethane	0.00		0		N.D.	
5) F-114	0.00		0		N.D.	
6) Vinyl chloride	0.00		0		N.D.	
7) 1,3-Butadiene	0.00		0		N.D. d	
8) Butane	4.32	43	9509		N.D.	
9) Bromomethane	0.00		0		N.D.	
10) Chloroethane	0.00		0		N.D.	
11) Vinyl bromide	0.00		0		N.D. d	
12) Ethanol	0.00		0		N.D.	
13) Acrolein	0.00		0		N.D.	
14) Pentane	6.23	43	1092		N.D.	
15) Trichlorofluoromethane	0.00		0		N.D.	
16) Acetone	5.55	58	676		N.D.	
17) 2-Propanol	5.78	45	201		N.D.	
18) 1,1-Dichloroethene	0.00		0		N.D.	
19) trans-1,2-Dichloroethene	0.00		0		N.D.	
20) Methylene chloride	6.78	84	473		N.D.	
21) t-Butyl alcohol (TBA)	0.00		0		N.D.	
22) 3-Chloropropene	0.00		0		N.D.	
23) CFC-113	0.00		0		N.D.	
24) Carbon disulfide	7.23	76	828		N.D.	
25) Methyl t-butyl ether (...)	0.00		0		N.D.	
26) Vinyl acetate	8.62	43	339		N.D.	
27) 1,1-Dichloroethane	0.00		0		N.D.	
28) cis-1,2-Dichloroethene	0.00		0		N.D.	
29) Hexane	0.00		0		N.D.	
30) Chloroform	0.00		0		N.D.	
31) Ethyl acetate	0.00		0		N.D.	
32) Tetrahydrofuran	0.00		0		N.D.	
33) 2-Butanone (MEK)	0.00		0		N.D.	
34) 1,2-Dichloroethane (EDC)	0.00		0		N.D. d	
35) 1,1,1-Trichloroethane	0.00		0		N.D.	
36) Carbon tetrachloride	0.00		0		N.D.	
37] Benzene	12.61	78	376	Below Cal		98
38) Cyclohexane	0.00		0		N.D. d	
40) 1,2-Dichloropropane	0.00		0		N.D. d	

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121611.D  
 Acq On : 16 Dec 2022 9:15 pm  
 Operator : bat  
 Sample : 02-2970 MB  
 Misc : T1  
 ALS Vial : 11 Sample Multiplier: 1  
 InstName : GCMS7

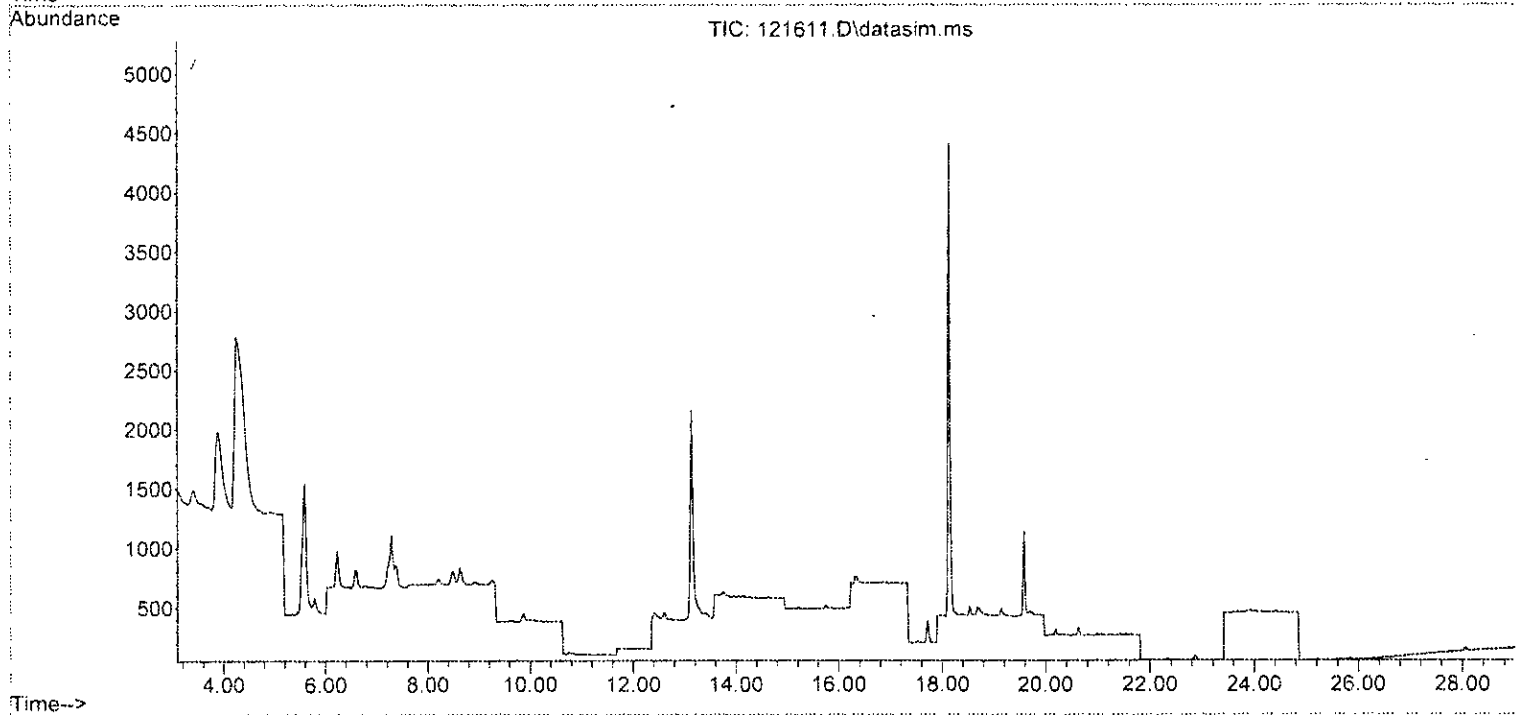
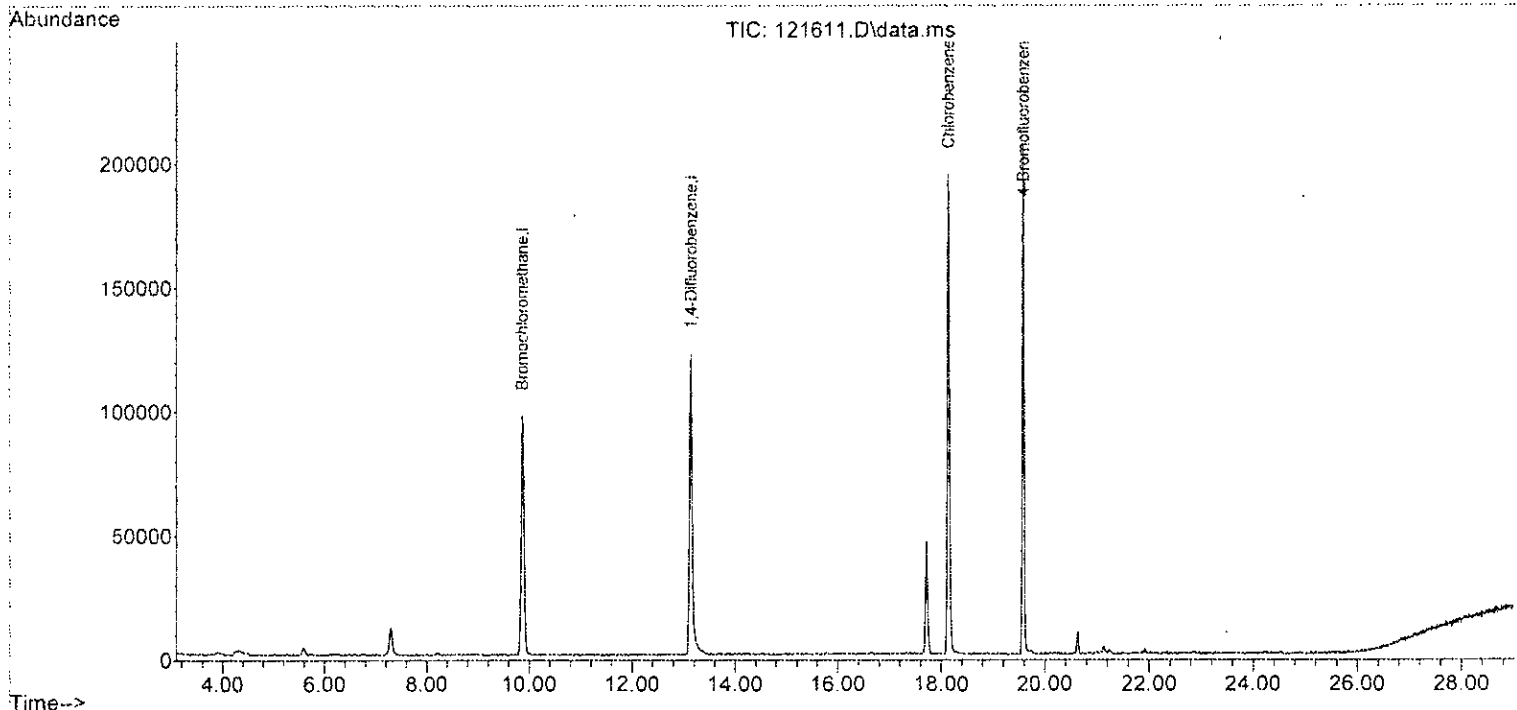
Quant Time: Dec 18 15:28:22 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) 1,4-Dioxane	0.00		0	N.D.	
42) 2,2,4-Trimethylpentane	14.21	57	235	N.D.	
43) Methyl methacrylate	0.00		0	N.D.	
44) Heptane	0.00		0	N.D.	
45) Bromodichloromethane	0.00		0	N.D.	
46) Trichloroethene	0.00		0	N.D.	
47) cis-1,3-Dichloropropene	0.00		0	N.D.	
48) 4-Methyl-2-pentanone	0.00		0	N.D.	
49) trans-1,3-Dichloropropene	0.00		0	N.D.	
50) Toluene	16.31	92	1190	N.D.	
51) 1,1,2-Trichloroethane	0.00		0	N.D.	
52) 2-Hexanone	0.00		0	N.D.	
53) Tetrachloroethene	17.35	164	273	N.D.	
54) Dibromochloromethane	0.00		0	N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0	N.D.	
57) Chlorobenzene	0.00		0	N.D.	
58] Ethylbenzene	18.53	91	148	Below Cal	97
59) 1,1,2,2-Tetrachloroethane	0.00		0	N.D.	
60) Nonane	0.00		0	N.D.	
61) Isopropylbenzene	19.70	105	180	N.D.	
62) 2-Chlorotoluene	0.00		0	N.D.	
63) Propylbenzene	0.00		0	N.D.	
64) 4-Ethyltoluene	20.39	105	121	N.D.	
65) m,p-Xylene	0.00		0	N.D.	
66) o-Xylene	0.00		0	N.D.	
67) Styrene	0.00		0	N.D.	
68) Bromoform	0.00		0	N.D.	
70) Benzyl chloride	0.00		0	N.D.	
71) 1,3,5-Trimethylbenzene	20.39	105	121	N.D.	
72) 1,2,4-Trimethylbenzene	20.39	105	121	N.D.	
73) 1,3-Dichlorobenzene	0.00		0	N.D.	
74) 1,4-Dichlorobenzene	0.00		0	N.D.	
75) 1,2-Dichlorobenzene	0.00		0	N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0	N.D.	
77] Naphthalene	23.90	128	166m	Below Cal	
78) Hexachlorobutadiene	0.00		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121611.D  
Acq On : 16 Dec 2022 9:15 pm  
Operator : bat  
Sample : 02-2970 MB  
Misc : T1  
ALS Vial : 11 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Dec 18 15:28:22 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M

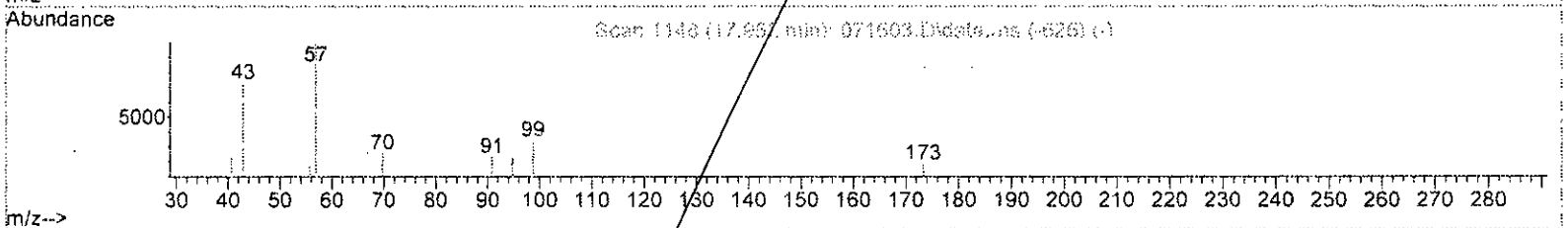
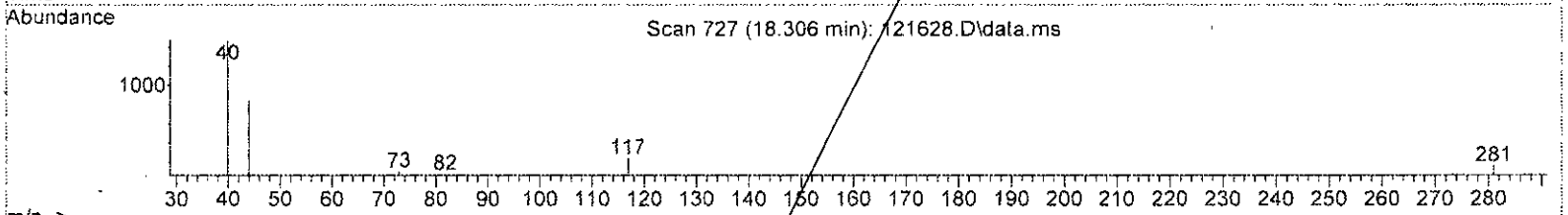
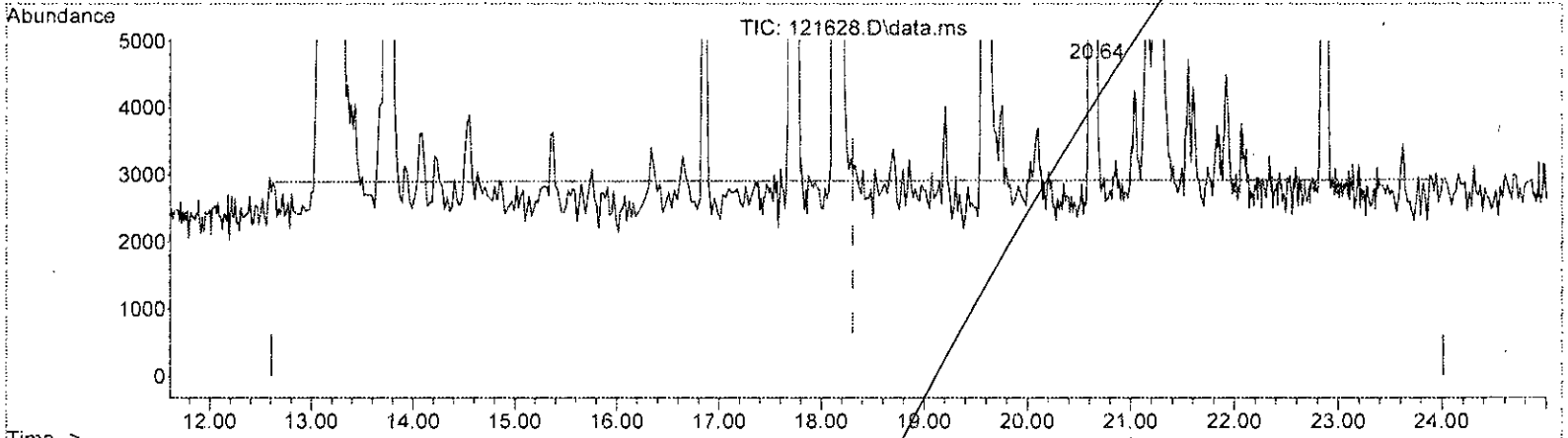




Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121628.D  
 Acq On : 17 Dec 2022 8:54 am  
 Operator : bat  
 Sample : 212172-02 dup 1/4.8  
 Misc : T15  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 22 14:31:03 2022  
 Quant Method : D:\GCMS7 Methods\1216GAS80silox7.M  
 Quant Title : TO-15 method  
 QLast Update : Mon Dec 19 18:05:16 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121628.D\data.ms

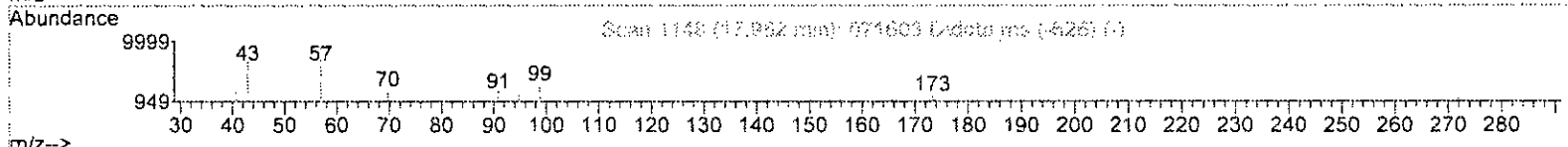
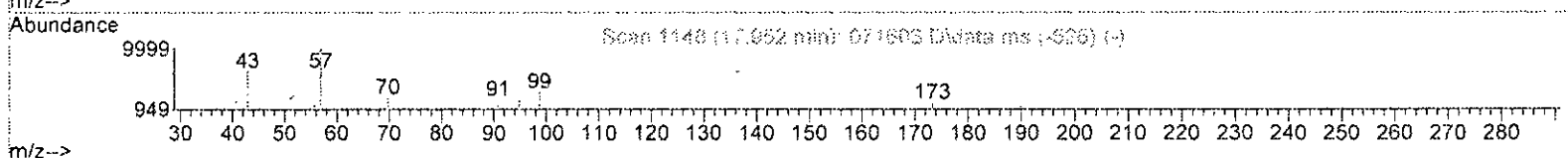
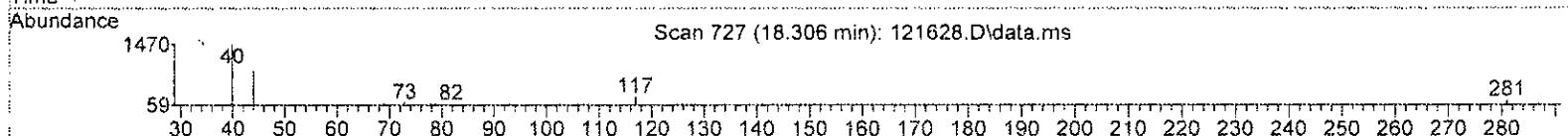
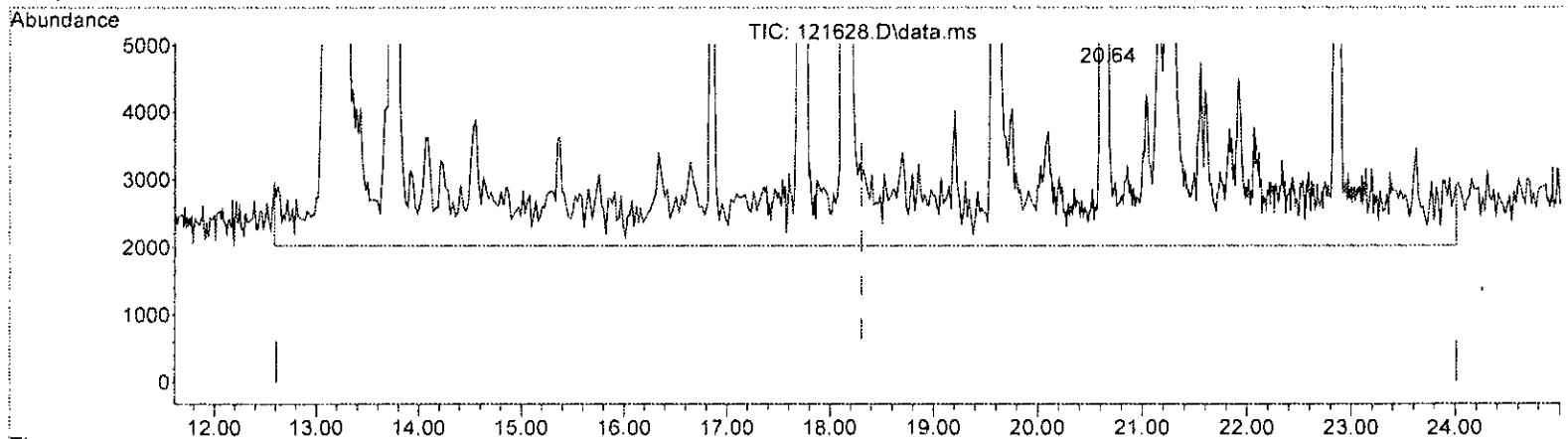
(5) NWTPH-Gx (HMP)		
18.310min ( 0.000)	48.332 ppbv	
response	1321590	
Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121628.D  
 Acq On : 17 Dec 2022 8:54 am  
 Operator : bat  
 Sample : 212172-02 dup 1/4.8  
 Misc : T15  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 22 14:31:03 2022  
 Quant Method : D:\GCMS7 Methods\1216GAS80silox7.M  
 Quant Title : TO-15 method  
 QLast Update : Mon Dec 19 18:05:16 2022  
 Response via : Initial Calibration  
 DataAcq Meth: TO15DC.M



TIC: 121628.D\data.ms

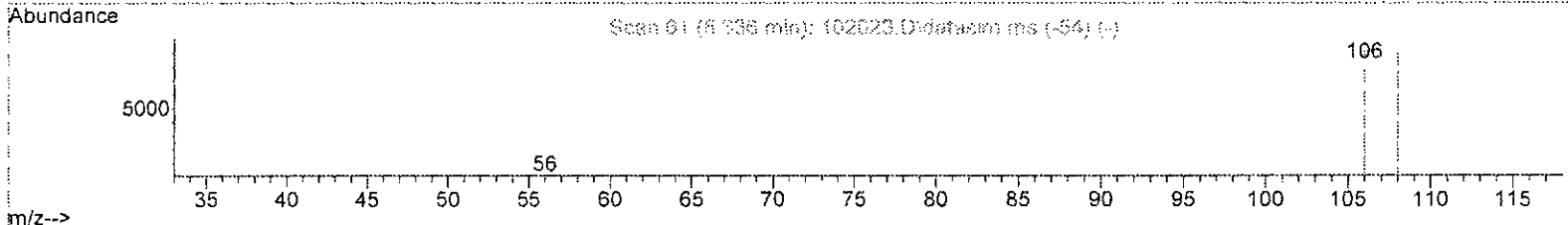
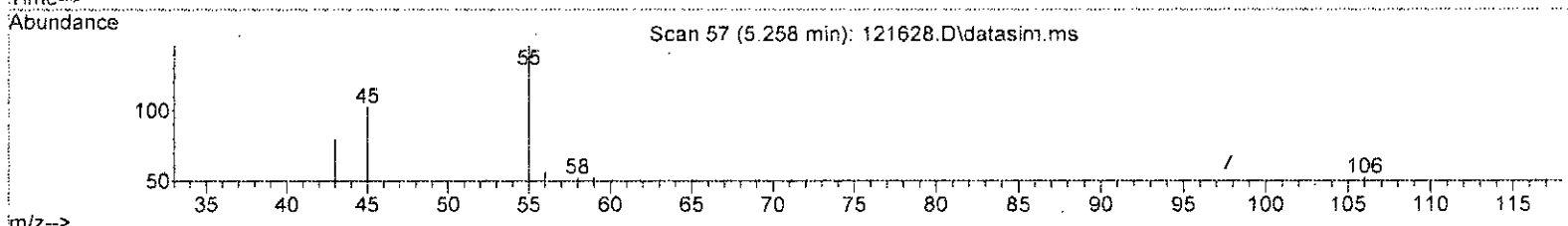
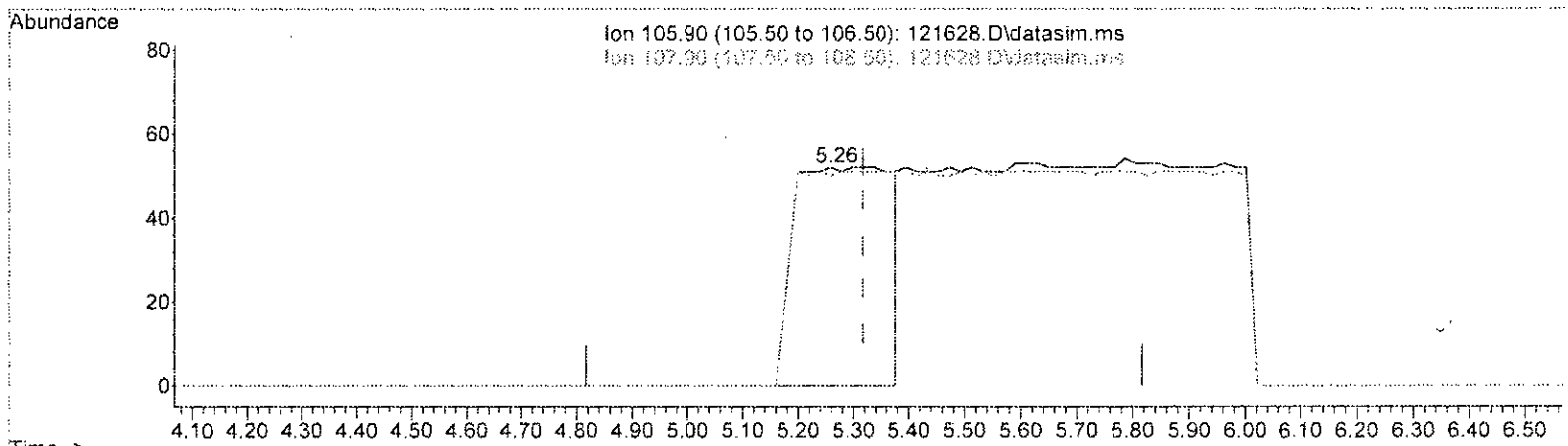
(5) NWTPH-Gx (HMP)		
18.310min ( 0.000)	129.600	ppbv m
response	3543795	
Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: k. cal/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121628.D  
 Acq On : 17 Dec 2022 8:54 am  
 Operator : bat  
 Sample : 212172-02 dup 1/4.8  
 Misc : T15  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:29:13 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121628.D\data.ms

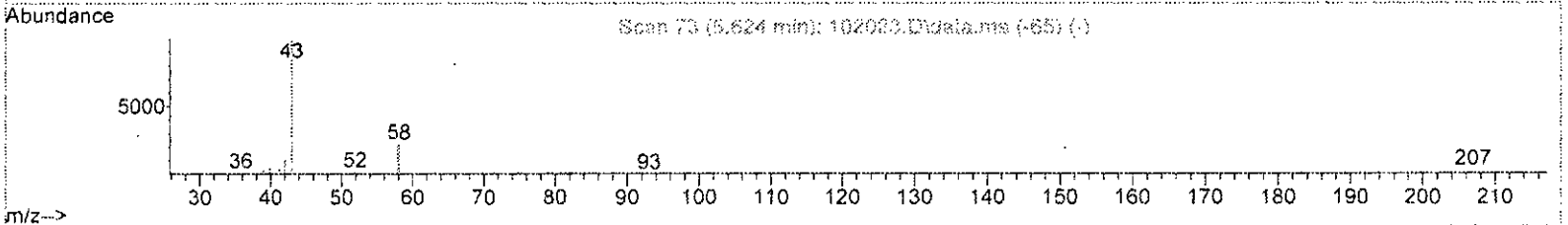
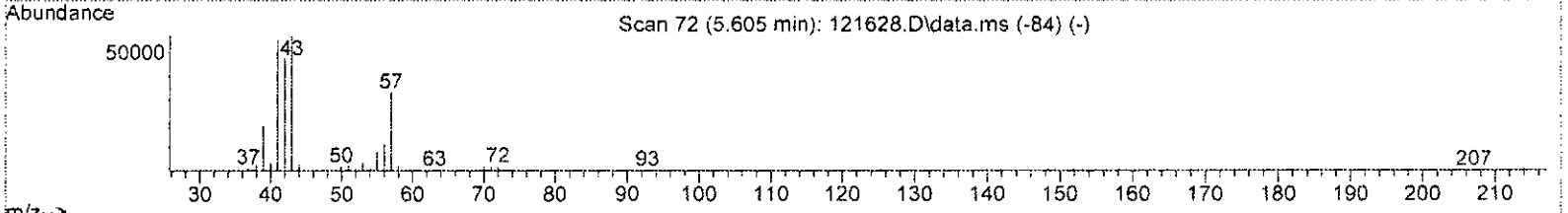
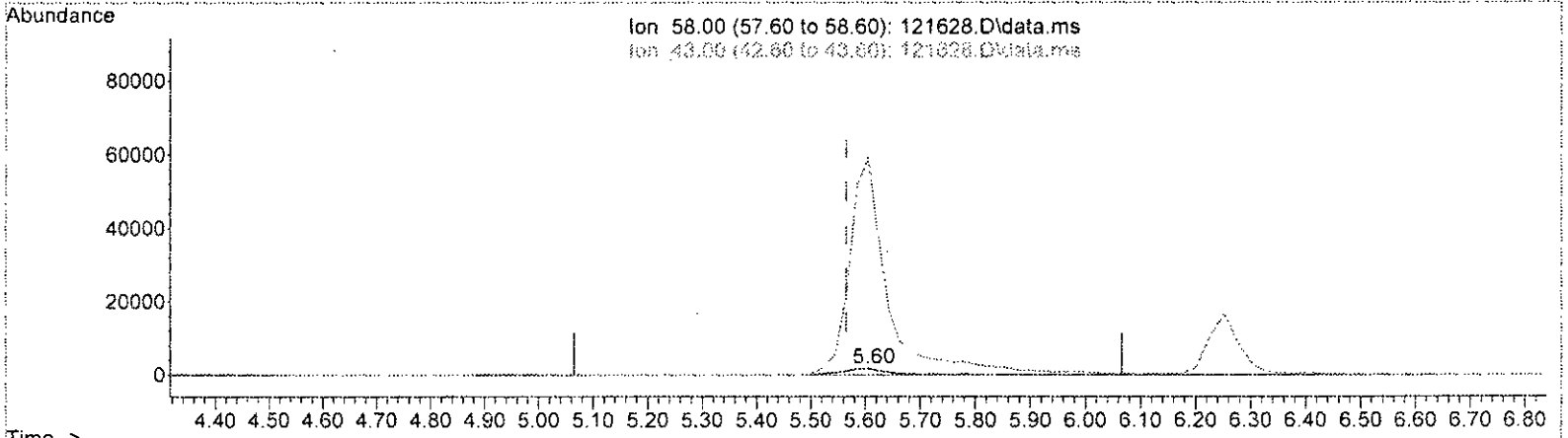
(11) Vinyl bromide (TMP)  
 5.258min (-0.059) 0.087 ppbv

response	716
Ion	Exp% Act%
105.90	100.00 100.00
107.90	94.10 29.05#
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121628.D  
 Acq On : 17 Dec 2022 8:54 am  
 Operator : bat  
 Sample : 212172-02 dup 1/4.8  
 Misc : T15  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:29:13 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



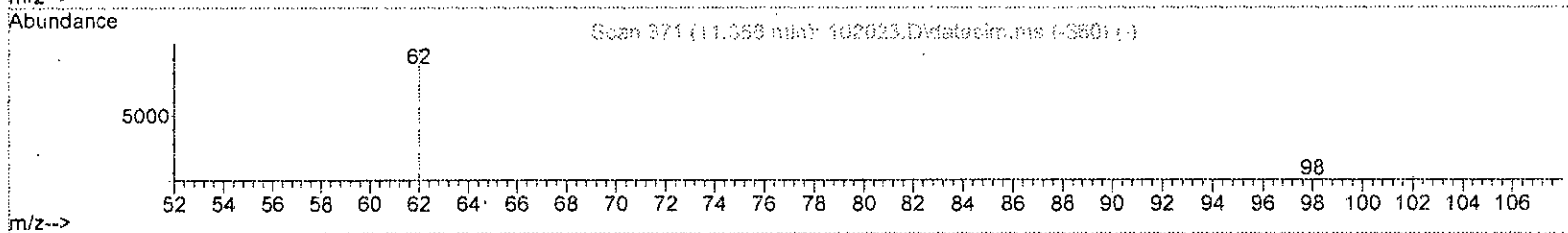
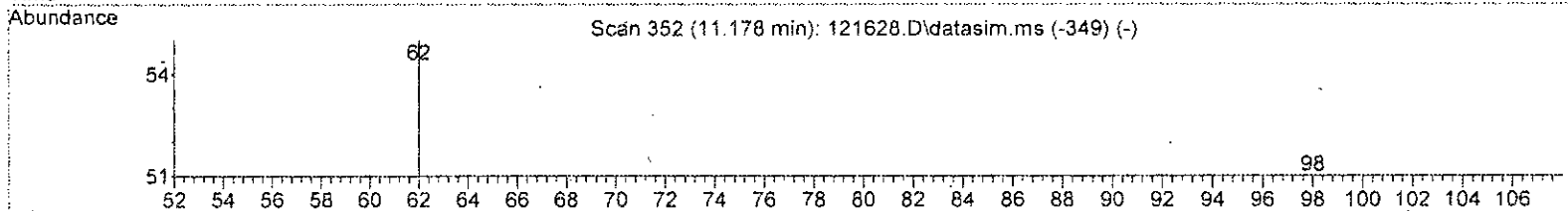
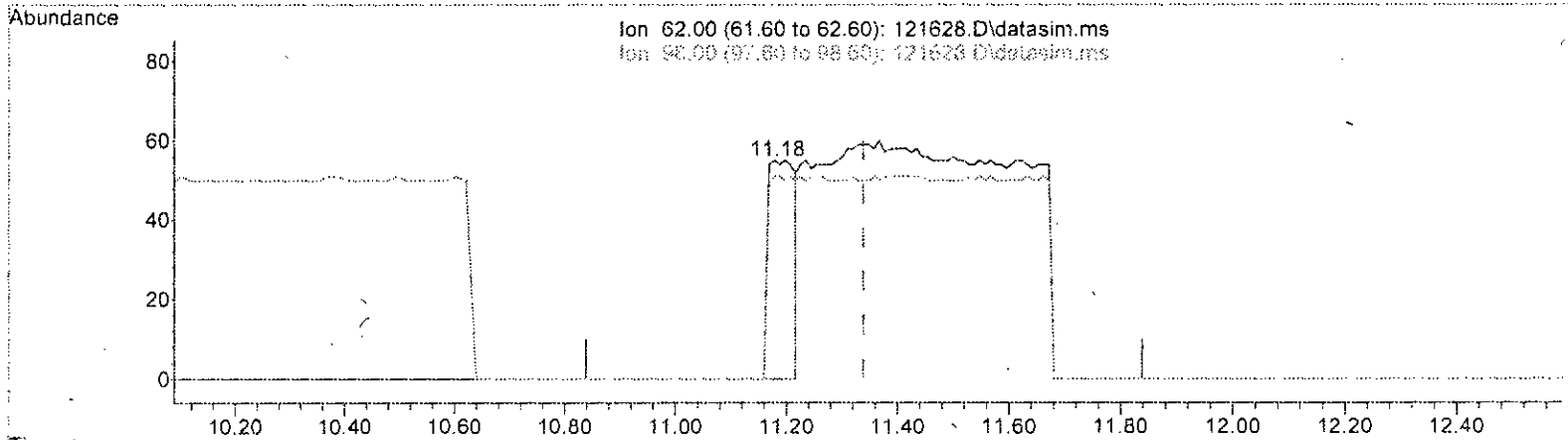
TIC: 121628.D\data.ms

(16) Acetone (TMF)		
5.605min (+ 0.039)	2.974 ppbv	
response	10821	
Ion	Exp%	Act%
58.00	100.00	100.00
43.00	359.30	3266.44#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCM57\12-16-22\  
 Data File : 121628.D  
 Acq On : 17 Dec 2022 8:54 am  
 Operator : bat  
 Sample : 212172-02 dup 1/4.8  
 Misc : T15  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:29:13 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121628.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

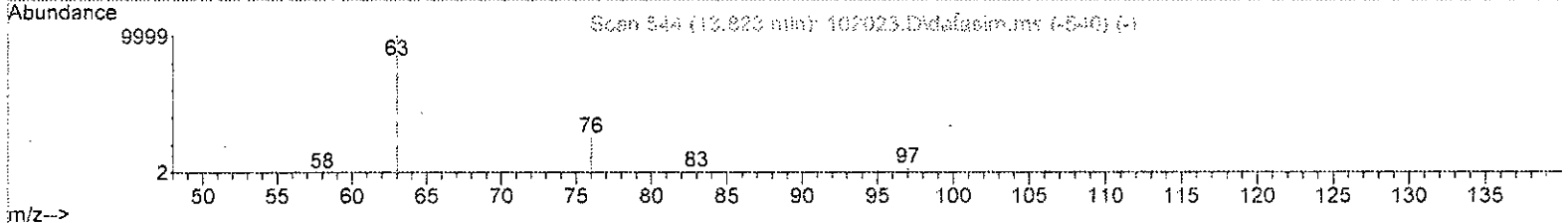
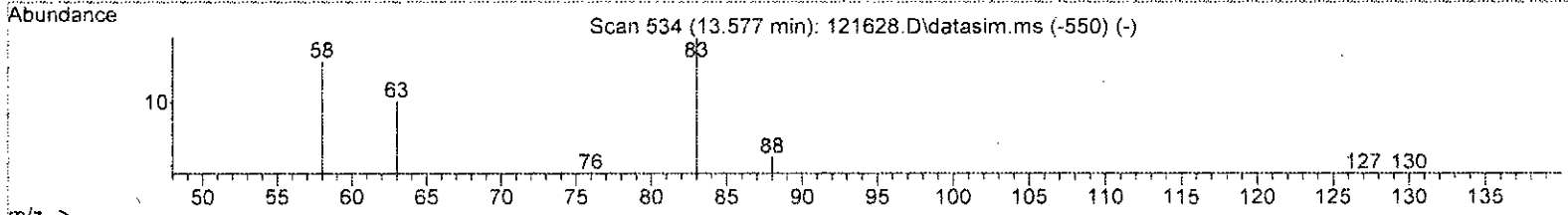
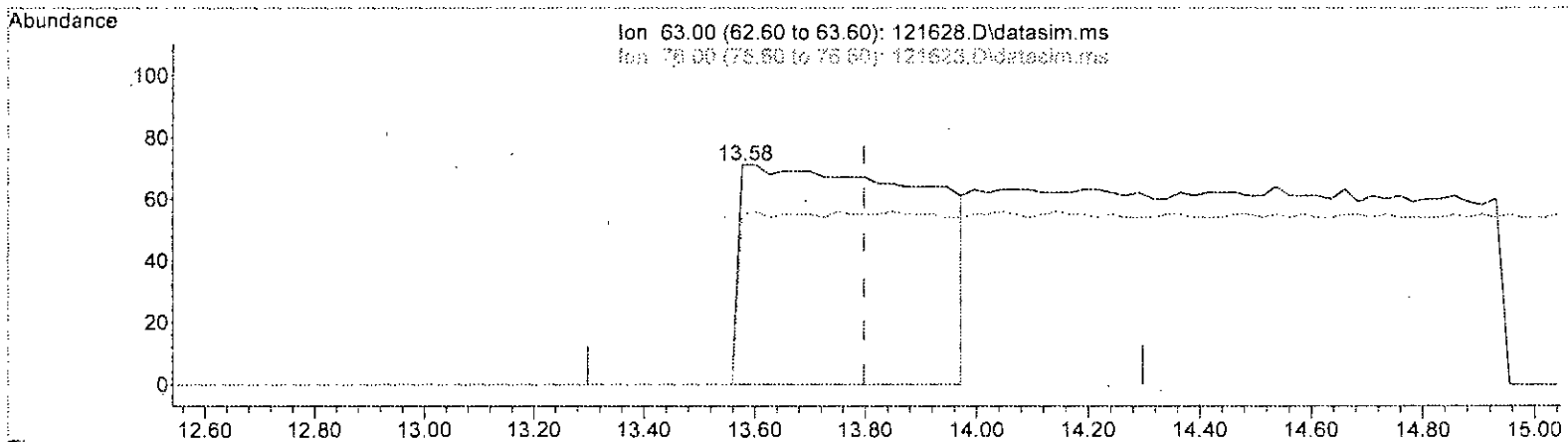
11.178min (-0.161) 0.010 ppbv

response	184
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 92.73#
0.00	0.00 0.00
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121628.D  
 Acq On : 17 Dec 2022 8:54 am  
 Operator : bat  
 Sample : 212172-02 dup 1/4.8  
 Misc : T15  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:29:13 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121628.D\data.ms

(40) 1,2-Dichloropropane (TMP)

13.577min (-0.221) 0.154 ppbv

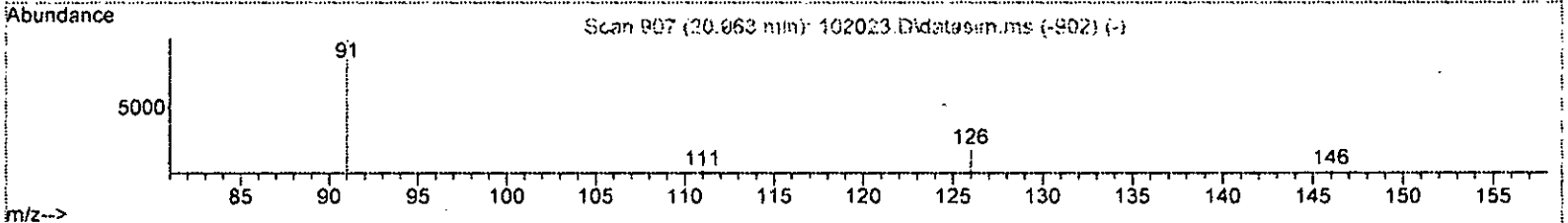
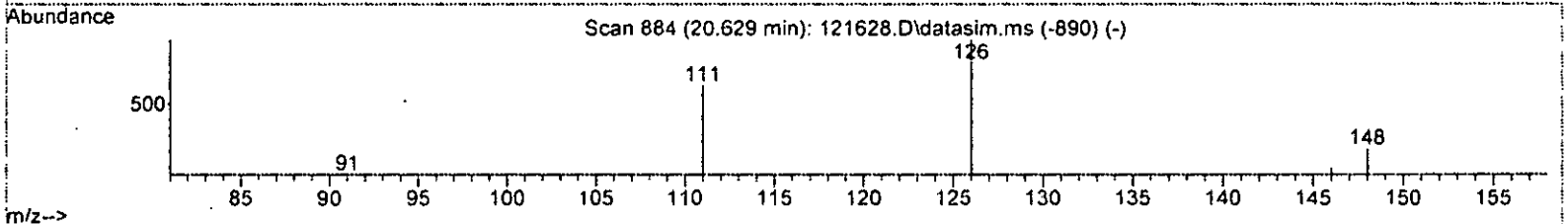
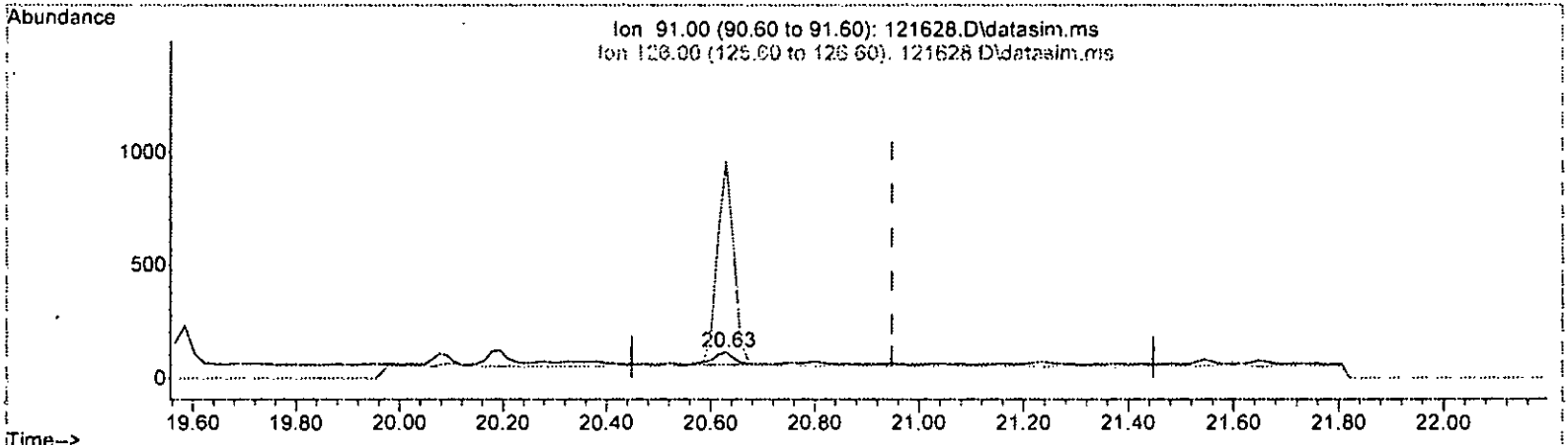
response 1621

Ion	Exp%	Act%
63.00	100.00	100.00
76.00	25.70	77.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121628.D  
 Acq On : 17 Dec 2022 8:54 am  
 Operator : bat  
 Sample : 212172-02 dup 1/4.8  
 Misc : T15  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:29:13 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121628.D\data.ms

(70) Benzyl chloride (TMP)		
20.629min (-0.319)	0.008 ppbv	
response	168	
Ion	Exp%	Act%
91.00	100.00	100.00
126.00	20.00	1596.49#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121628.D  
 Acq On : 17 Dec 2022 8:54 am  
 Operator : bat  
 Sample : 212172-02 dup 1/4.8  
 Misc : T15  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:29:13 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

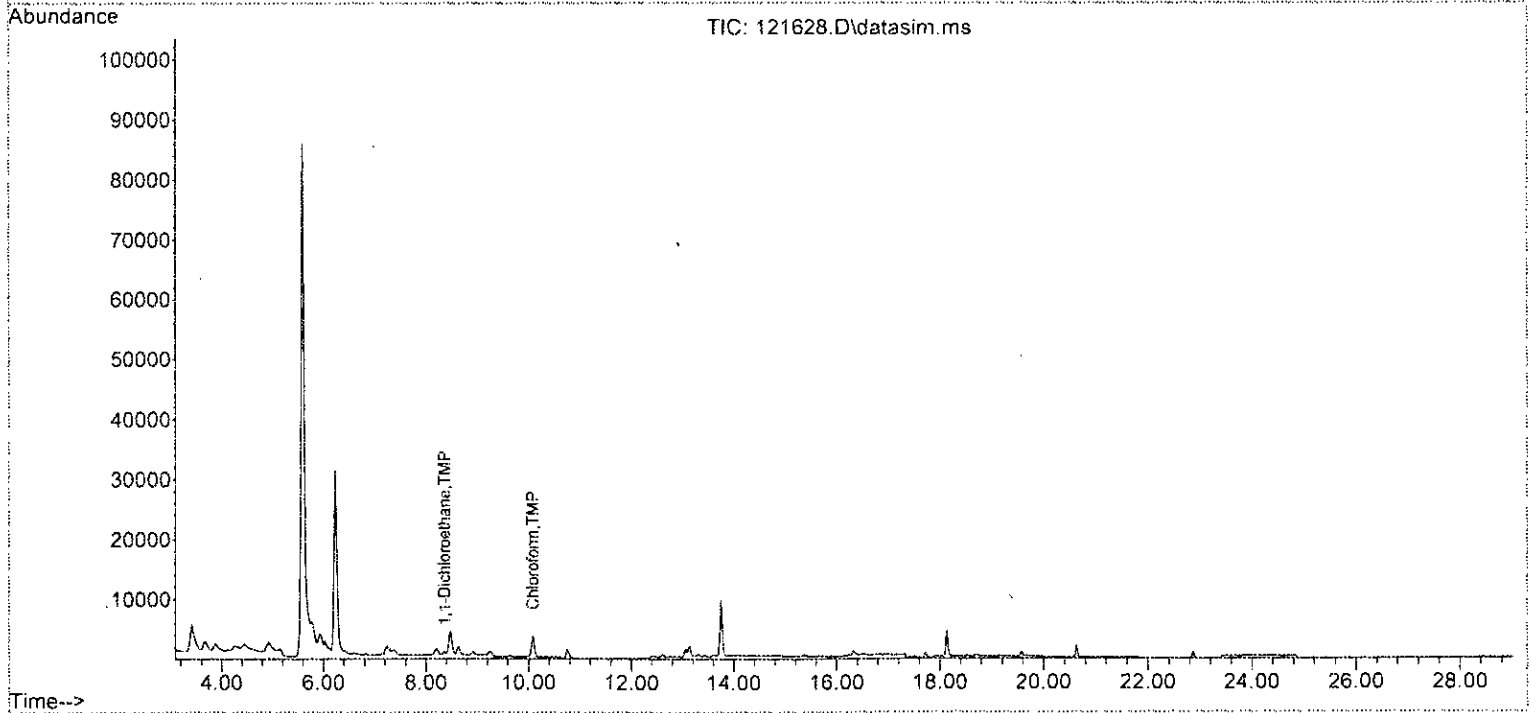
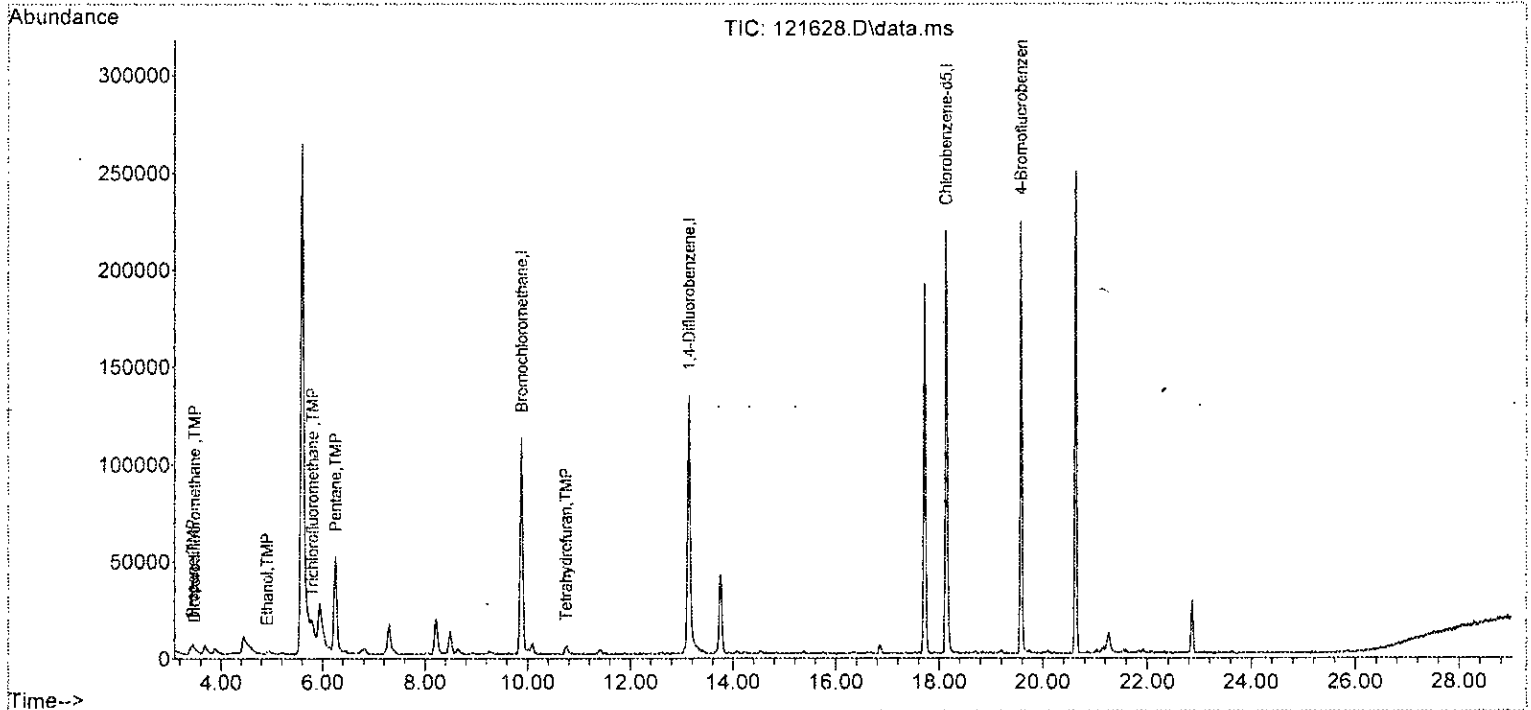
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.88	128	51221	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	194179	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	182206	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	102431	8.112	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	81.10%
Target Compounds						
						Qvalue
2) Propene	3.45	41	5043	0.672	ppbv	85
3) Dichlorodifluoromethane	3.49	85	2825	0.134	ppbv	85
12) Ethanol	4.92	45	6841	2.014	ppbv	94
14) Pentane	6.25	43	66449	5.272	ppbv	97
15) Trichlorofluoromethane	5.80	101	7169	0.293	ppbv	87
27] 1,1-Dichloroethane	8.36	63	1337	0.078	ppbv	98
30] Chloroform	10.08	83	8126	0.403	ppbv	97
32) Tetrahydrofuran	10.75	42	5082	0.548	ppbv	91
37] Benzene	12.61	78	1607	Below Cal		95
-----						

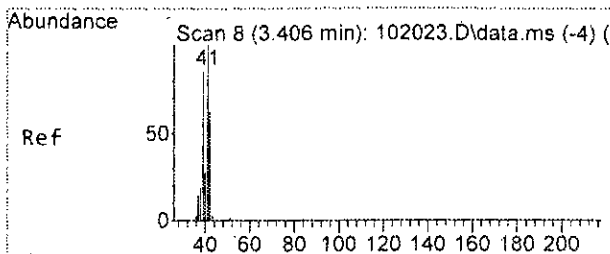
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121628.D  
 Acq On : 17 Dec 2022 8:54 am  
 Operator : bat  
 Sample : 212172-02 dup 1/4.8  
 Misc : T15  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

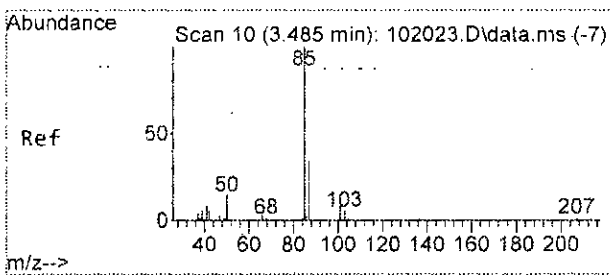
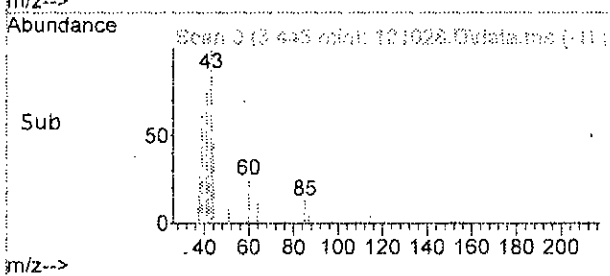
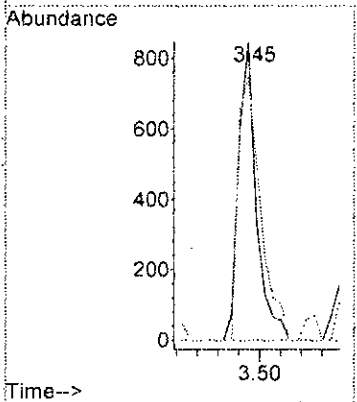
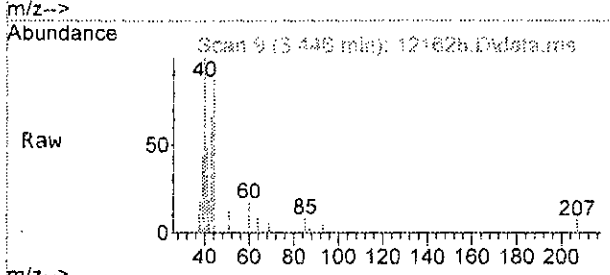
Quant Time: Dec 18 15:29:13 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 5S method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: TO15DC.M





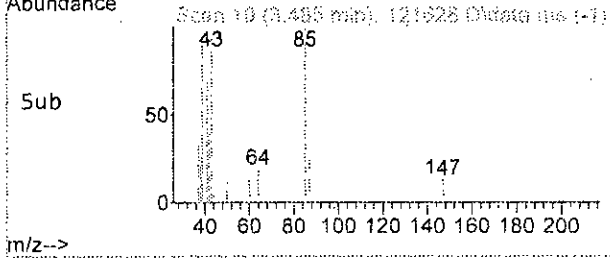
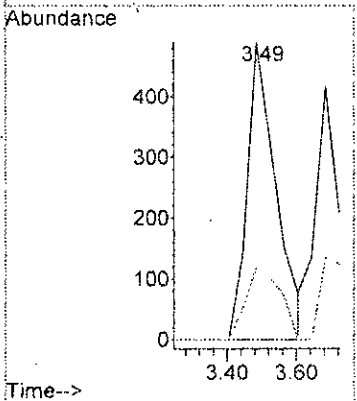
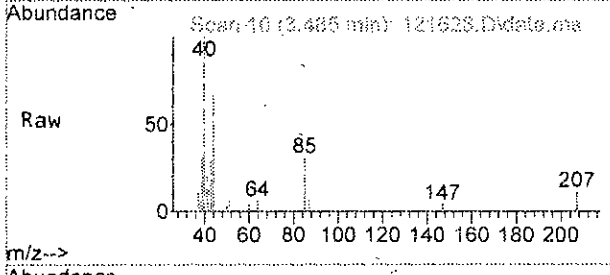
#2  
 Propene  
 Concen: 0.672 ppbv  
 RT: 3.45 min Scan# 9  
 Delta R.T. 0.039 min  
 Lab File: 121628.D  
 Acq: 17 Dec 2022 8:54 am

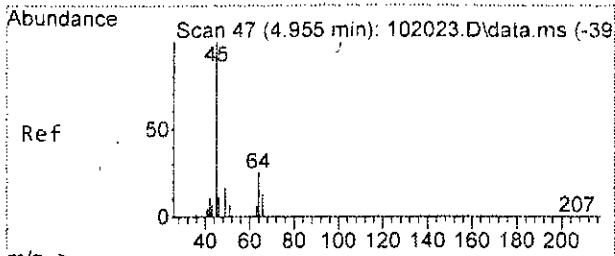
Tgt Ion	Resp	Lower	Upper
41	100		
39	88.5	45.6	105.6
27	0.0	0.0	30.0



#3  
 Dichlorodifluoromethane  
 Concen: 0.134 ppbv  
 RT: 3.49 min Scan# 10  
 Delta R.T. 0.000 min  
 Lab File: 121628.D  
 Acq: 17 Dec 2022 8:54 am

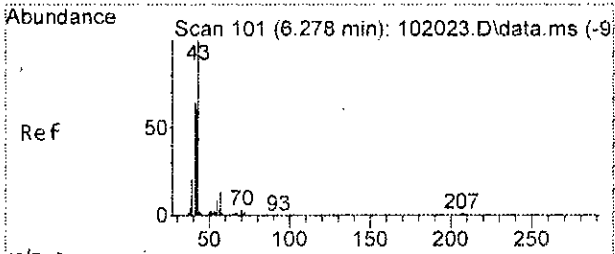
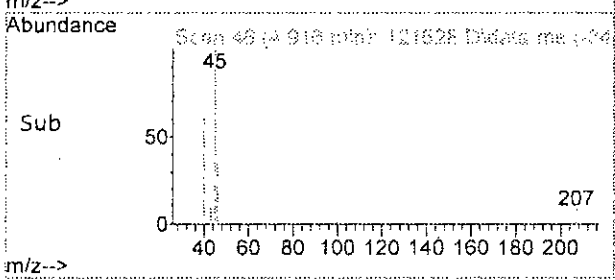
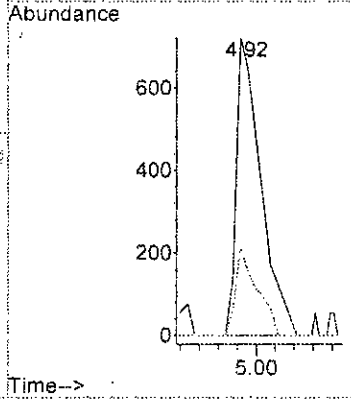
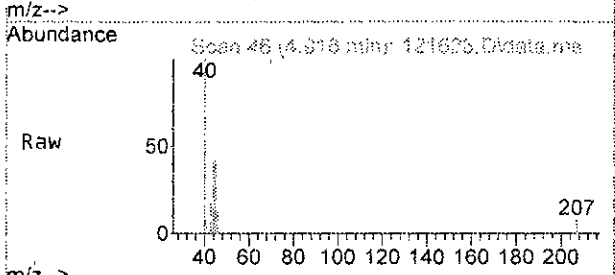
Tgt Ion	Resp	Lower	Upper
85	100		
87	24.0	2.2	62.2





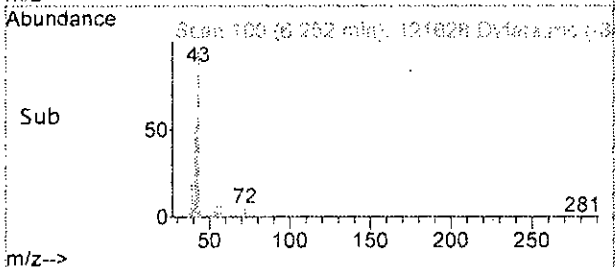
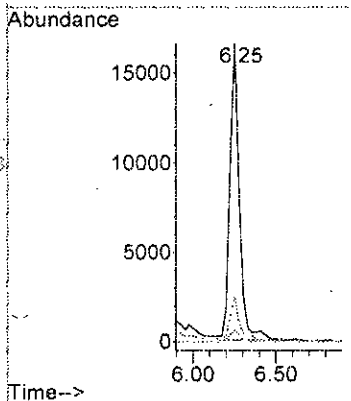
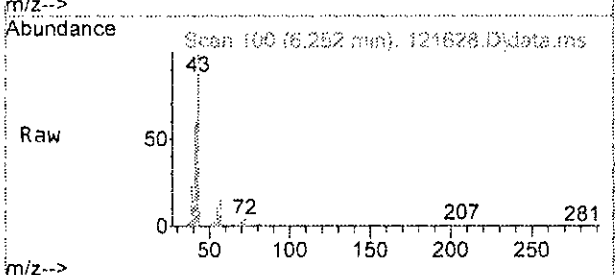
#12  
 Ethanol  
 Concen: 2.014 ppbv  
 RT: 4.92 min Scan# 46  
 Delta R.T. -0.039 min  
 Lab File: 121628.D  
 Acq: 17 Dec 2022 8:54 am

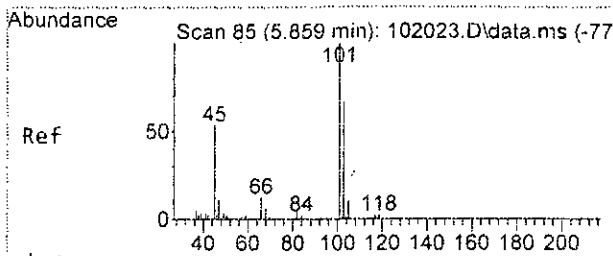
Tgt Ion: 45 Resp: 6841  
 Ion Ratio Lower Upper  
 45 100  
 46 28.8 0.0 55.5



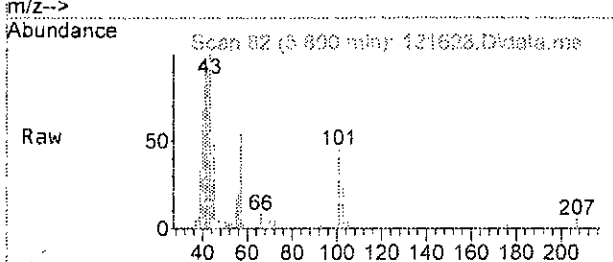
#14  
 Pentane  
 Concen: 5.272 ppbv  
 RT: 6.25 min Scan# 100  
 Delta R.T. 0.000 min  
 Lab File: 121628.D  
 Acq: 17 Dec 2022 8:54 am

Tgt Ion: 43 Resp: 66449  
 Ion Ratio Lower Upper  
 43 100  
 57 15.3 0.0 43.5  
 72 4.1 0.0 34.2

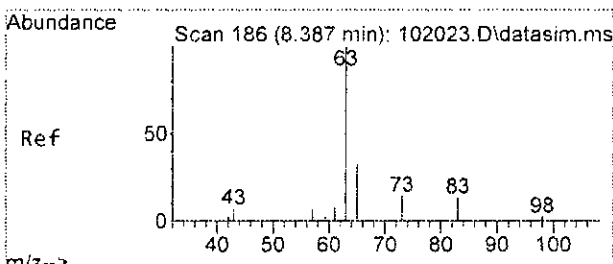
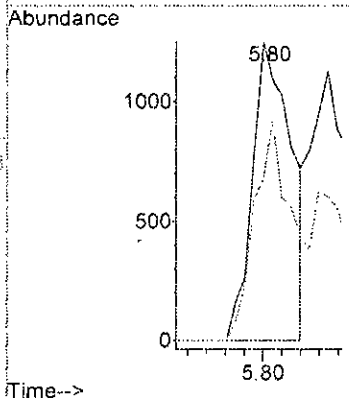
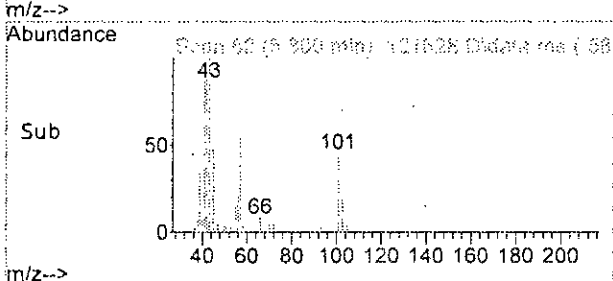




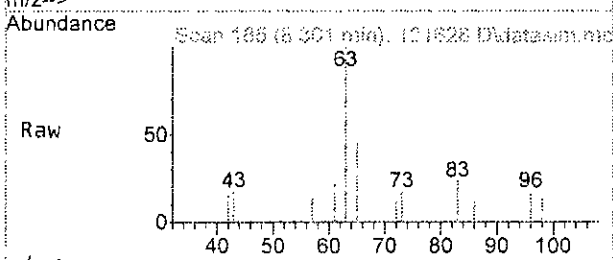
#15  
 Trichlorofluoromethane  
 Concen: 0.293 ppbv  
 RT: 5.80 min Scan# 82  
 Delta R.T. -0.039 min  
 Lab File: 121628.D  
 Acq: 17 Dec 2022 8:54 am



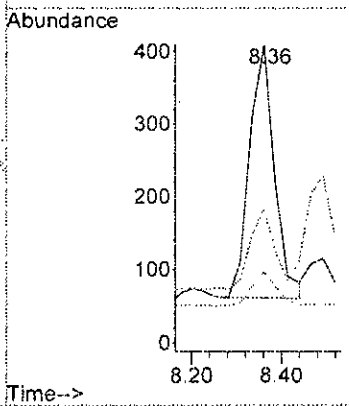
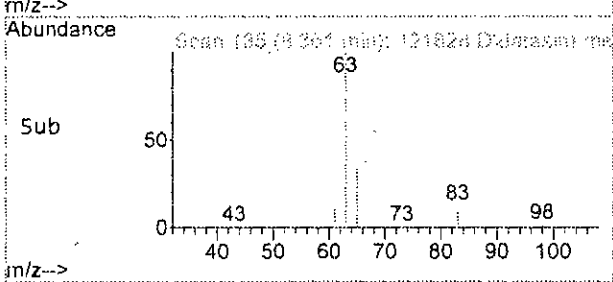
Tgt Ion: 101 Resp: 7169  
 Ion Ratio Lower Upper  
 101 100  
 103 54.6 34.5 94.5

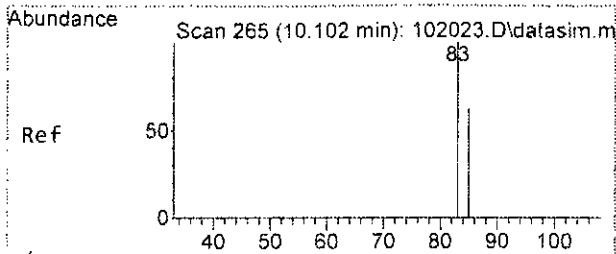


#27  
 1,1-Dichloroethane  
 Concen: 0.078 ppbv  
 RT: 8.36 min Scan# 185  
 Delta R.T. 0.000 min  
 Lab File: 121628.D  
 Acq: 17 Dec 2022 8:54 am



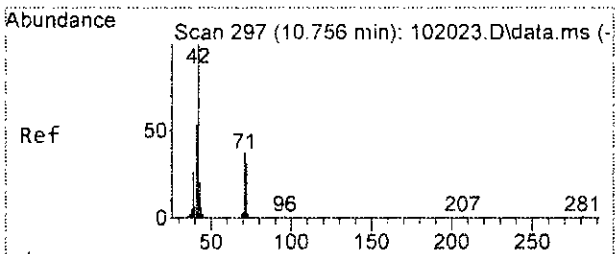
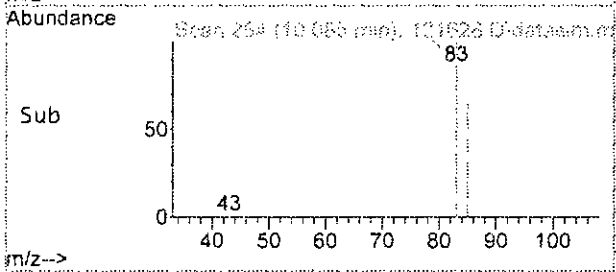
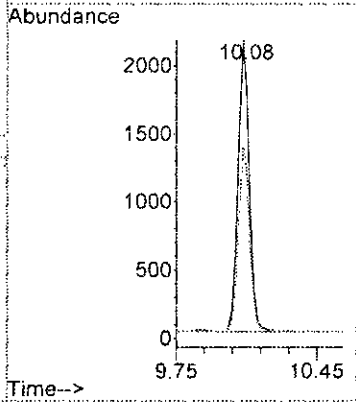
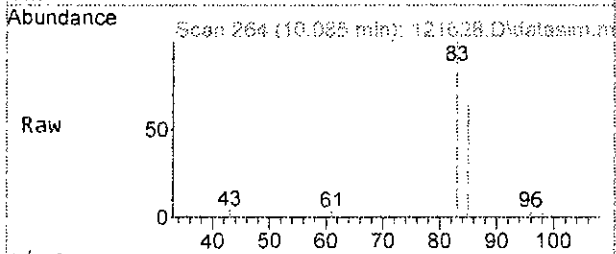
Tgt Ion: 63 Resp: 1337  
 Ion Ratio Lower Upper  
 63 100  
 65 31.1 2.5 62.5  
 83 13.3 0.0 43.2





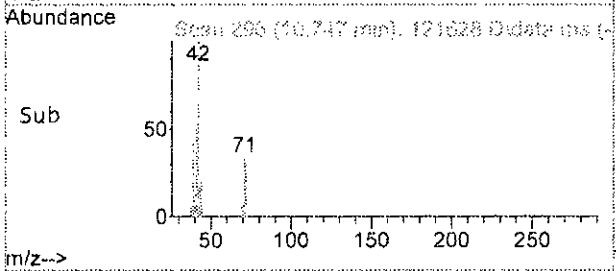
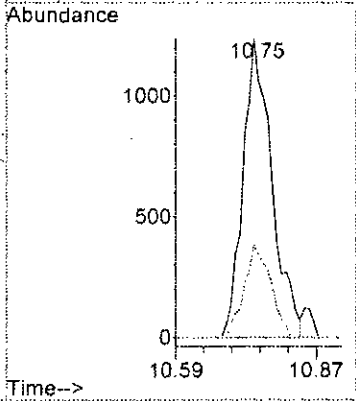
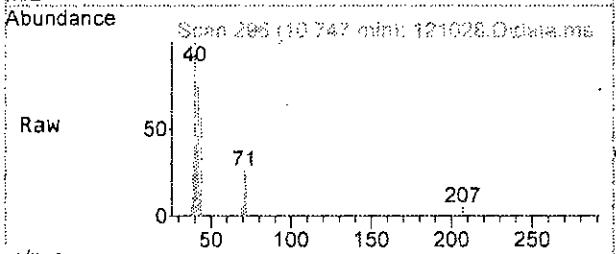
#30  
 Chloroform  
 Concen: 0.403 ppbv  
 RT: 10.08 min Scan# 264  
 Delta R.T. -0.017 min  
 Lab File: 121628.D  
 Acq: 17 Dec 2022 8:54 am

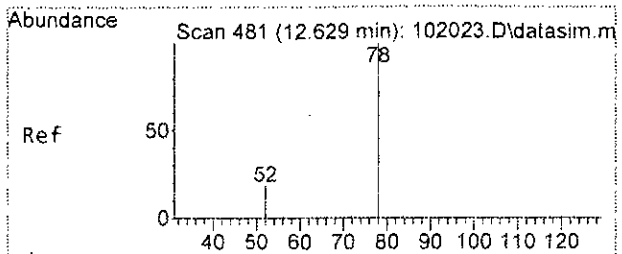
Tgt Ion	Resp	Lower	Upper
83	100		
85	63.6	36.3	96.3



#32  
 Tetrahydrofuran  
 Concen: 0.548 ppbv  
 RT: 10.75 min Scan# 296  
 Delta R.T. -0.000 min  
 Lab File: 121628.D  
 Acq: 17 Dec 2022 8:54 am

Tgt Ion	Resp	Lower	Upper
42	100		
72	28.6	3.7	63.7

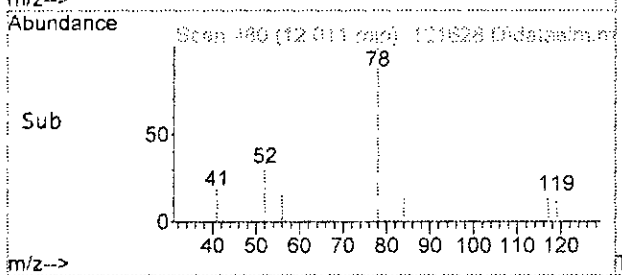
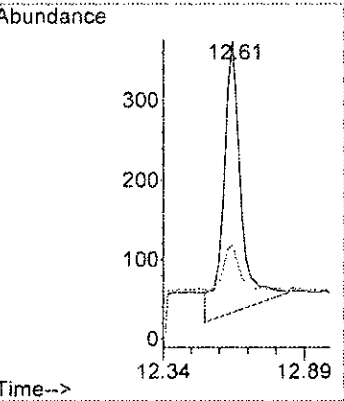
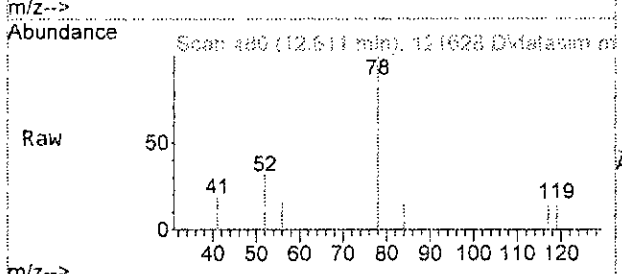




#37  
Benzene  
Concen: Below Cal  
RT: 12.61 min Scan# 480  
Delta R.T. 0.000 min  
Lab File: 121628.D  
Acq: 17 Dec 2022 8:54 am

Tgt Ion: 78 Resp: 1607

Ion	Ratio	Lower	Upper
78	100		
52	17.6	0.0	49.7



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121628.D  
 Acq On : 17 Dec 2022 8:54 am  
 Operator : bat  
 Sample : 212172-02 dup 1/4.8  
 Misc : T15  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:29:13 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.88	128	51221	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	194179	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	182206	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	102431	8.112	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	81.10%
Target Compounds						
					Qvalue	
2) Propene	3.45	41	5043	0.672	ppbv	85
3) Dichlorodifluoromethane	3.49	85	2825	0.134	ppbv	85
4) Chloromethane	3.69	50	527	N.D.		
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) 1,3-Butadiene	0.00		0	N.D.		
8) Butane	4.28	43	4134	N.D.		
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	4.92	45	6841	2.014	ppbv	94
13) Acrolein	0.00		0	N.D.		
14) Pentane	6.25	43	66449	5.272	ppbv	97
15) Trichlorofluoromethane	5.80	101	7169	0.293	ppbv	87
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	5.78	45	5781	N.D.		
18) 1,1-Dichloroethene	0.00		0	N.D.		
19) trans-1,2-Dichloroethene	0.00		0	N.D.		
20) Methylene chloride	6.78	84	2968	N.D.		
21) t-Butyl alcohol (TBA)	0.00		0	N.D.		
22) 3-Chloropropene	6.86	41	1007	N.D.		
23) CFC-113	0.00		0	N.D.		
24) Carbon disulfide	7.23	76	7655	N.D.		
25) Methyl t-butyl ether (...)	0.00		0	N.D.		
26) Vinyl acetate	8.51	43	1984	N.D.		
27] 1,1-Dichloroethane	8.36	63	1337	0.078	ppbv	98
28) cis-1,2-Dichloroethene	9.62	96	331	N.D.		
29) Hexane	10.01	57	1132	N.D.		
30] Chloroform	10.08	83	8126	0.403	ppbv	97
31) Ethyl acetate	10.03	43	958	N.D.		
32) Tetrahydrofuran	10.75	42	5082	0.548	ppbv	91
33) 2-Butanone (MEK)	0.00		0	N.D.		
34) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d	
35) 1,1,1-Trichloroethane	11.68	97	167	N.D.		
36) Carbon tetrachloride	0.00		0	N.D.		
37] Benzene	12.61	78	1607	Below Cal		95
38) Cyclohexane	13.05	84	1090	N.D.		
40) 1,2-Dichloropropane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121628.D  
 Acq On : 17 Dec 2022 8:54 am  
 Operator : bat  
 Sample : 212172-02 dup 1/4.8  
 Misc : T15  
 ALS Vial : 28 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:29:13 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

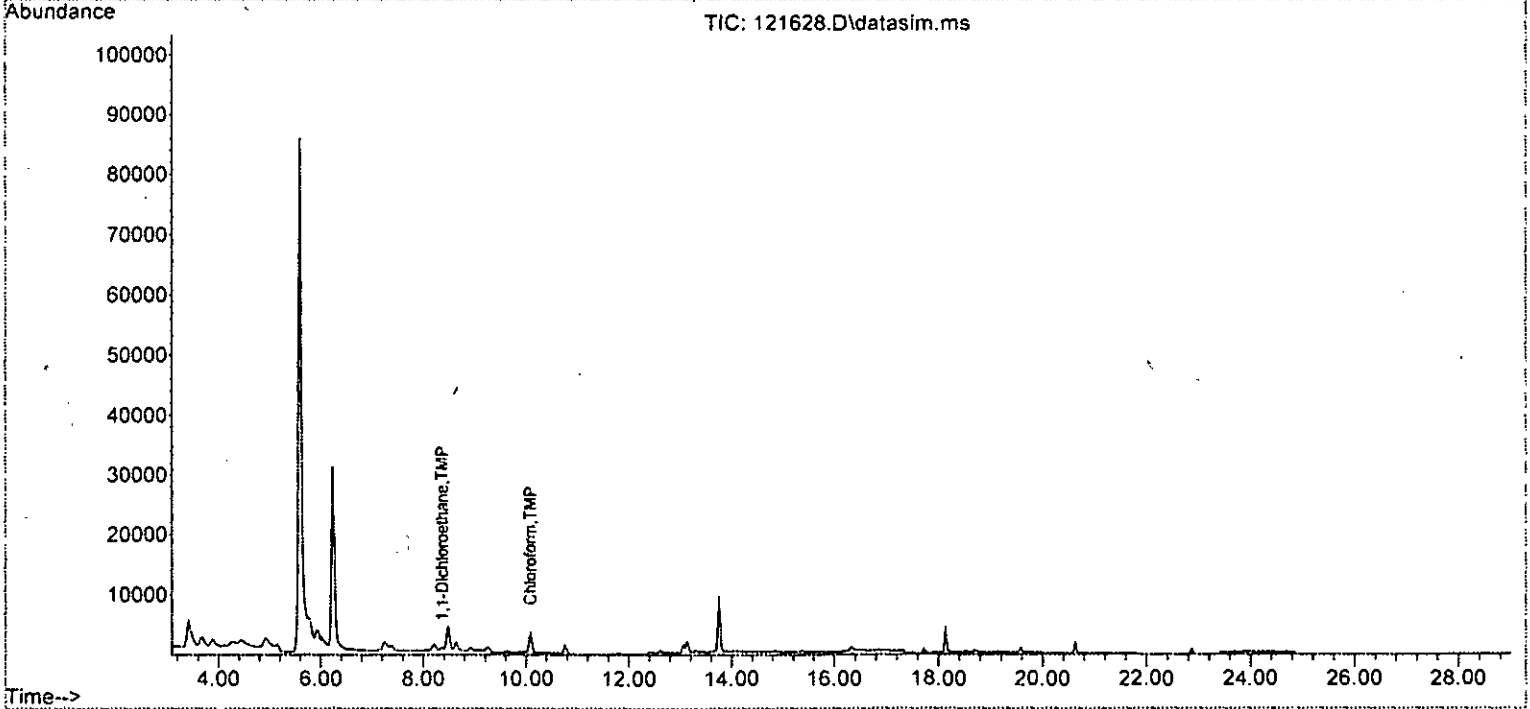
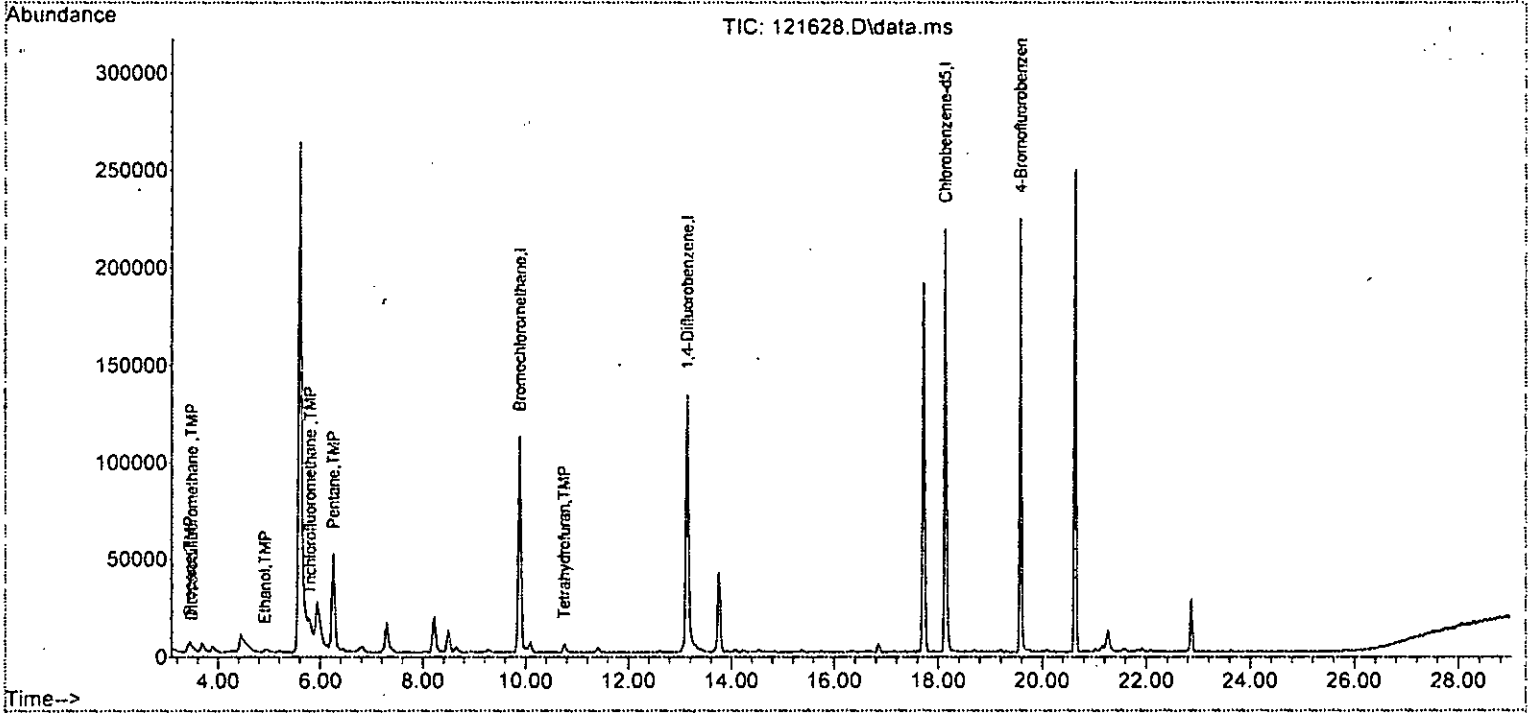
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	13.75	88	142		N.D.	
42) 2,2,4-Trimethylpentane	14.21	57	610		N.D.	
43) Methyl methacrylate	14.21	41	552		N.D.	
44) Heptane	14.56	43	1336		N.D.	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	0.00		0		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	16.31	92	1923		N.D.	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	16.59	43	537		N.D.	
53) Tetrachloroethene	17.52	164	406		N.D.	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	18.53	91	332		N.D.	
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
60) Nonane	19.30	43	196		N.D.	
61) Isopropylbenzene	0.00		0		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D.	
64) 4-Ethyltoluene	20.62	105	1229		N.D.	
65) m,p-Xylene	18.70	106	260		N.D.	
66) o-Xylene	19.15	106	109		N.D.	
67) Styrene	0.00		0		N.D.	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D.	d
71) 1,3,5-Trimethylbenzene	20.62	105	1229		N.D.	
72) 1,2,4-Trimethylbenzene	20.62	105	1229		N.D.	
73) 1,3-Dichlorobenzene	20.63	146	207		N.D.	
74) 1,4-Dichlorobenzene	20.63	146	207		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77) Naphthalene	0.00		0		N.D.	
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121628.D  
Acq On : 17 Dec 2022 8:54 am  
Operator : bat  
Sample : 212172-02 dup 1/4.8  
Misc : T15  
ALS Vial : 28 Sample Multiplier: 1  
InstName : GCMS7

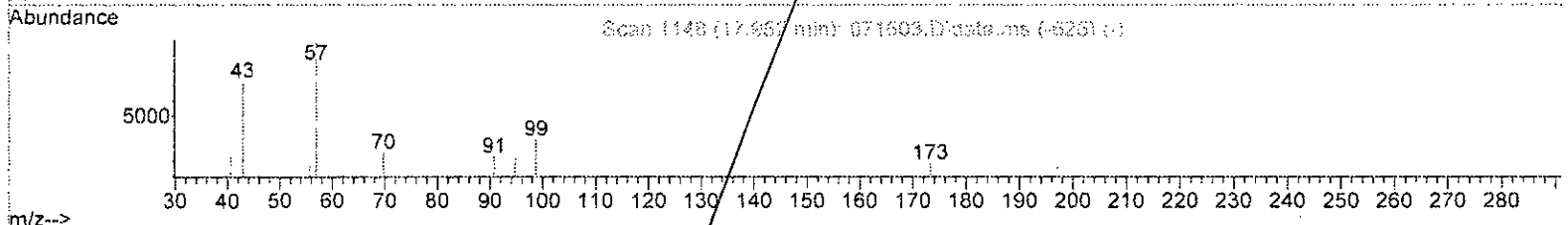
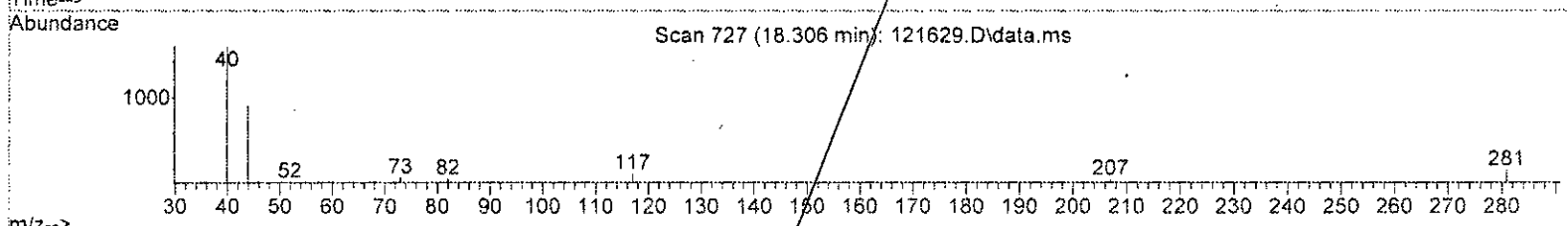
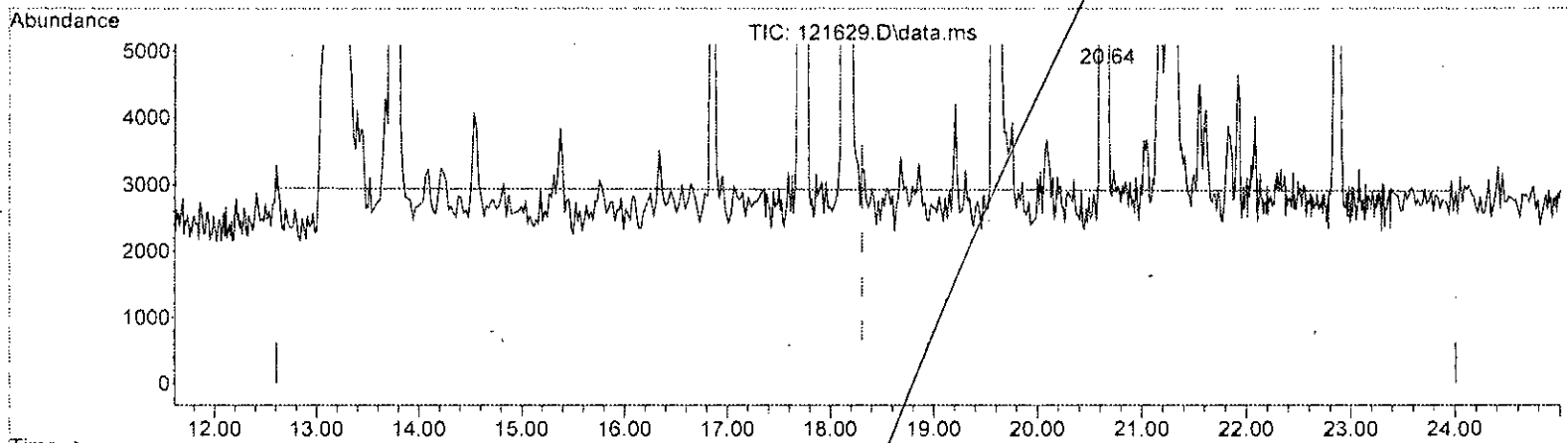
Quant Time: Dec 18 15:29:13 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121629.D  
 Acq On : 17 Dec 2022 9:29 am  
 Operator : bat  
 Sample : 212172-02 1/4.8  
 Misc : T15  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 22 14:35:53 2022  
 Quant Method : D:\GCMS7 Methods\1216GAS80silox7.M  
 Quant Title : TO-15 method  
 QLast Update : Mon Dec 19 18:05:16 2022  
 Response via : Initial Calibration  
 DataAcq Meth: TO15DC.M



TIC: 121629.D\data.ms

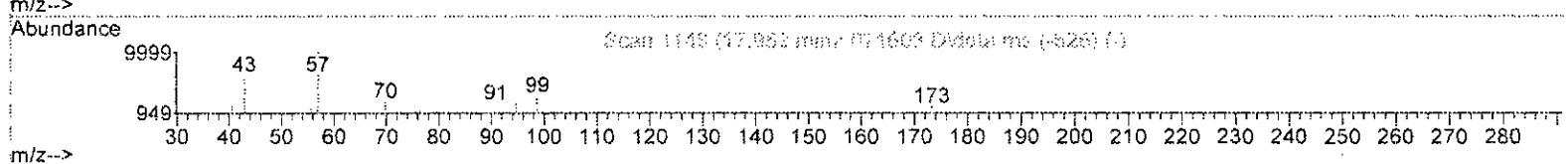
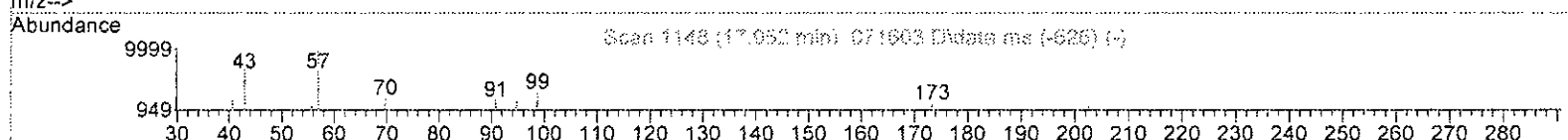
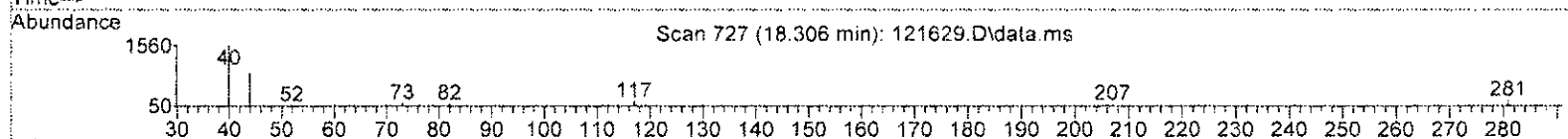
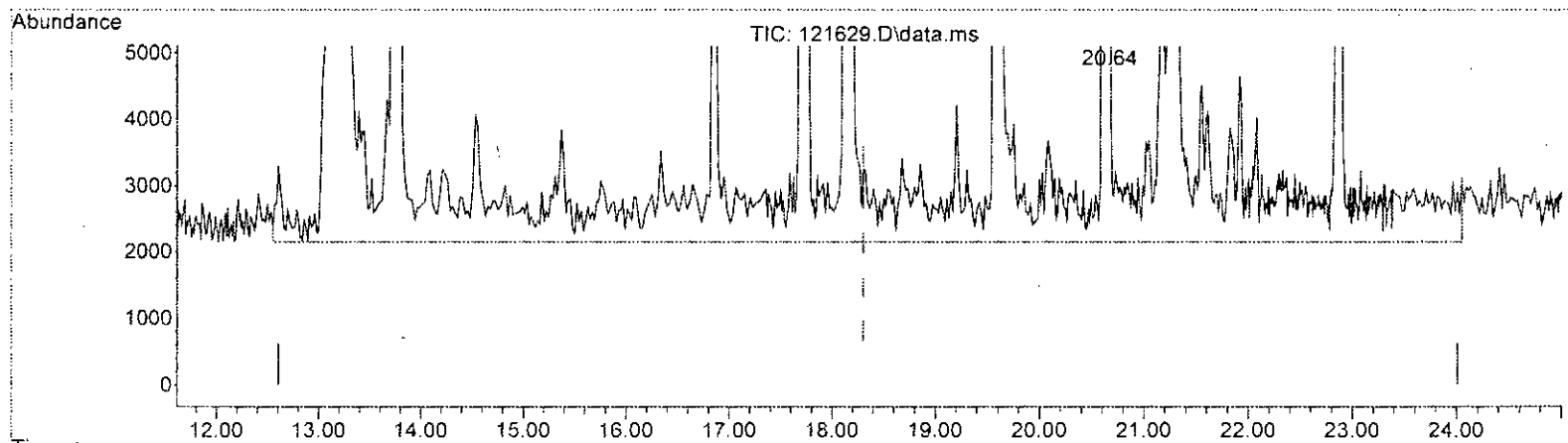
(5) NWTPH-Gx (HMP)		
18.310min ( 0.000)	49.427 ppbv m	
response	1343361	
Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*h*  
*calculated*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121629.D  
 Acq On : 17 Dec 2022 9:29 am  
 Operator : bat  
 Sample : 212172-02 1/4.8  
 Misc : T15  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 22 14:35:53 2022  
 Quant Method : D:\GCMS7 Methods\1216GAS80silox7.M  
 Quant Title : T0-15 method  
 QLast Update : Mon Dec 19 18:05:16 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121629.D\data.ms

(5) . NWTPH-Gx (HMP)		
18.310min ( 0.000)	128.894 ppbv m	
response	3503139	
Signal	Exp%	Act%
TIC	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

*bat*

Area Percent Report

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121629.D  
 Acq On : 17 Dec 2022 9:29 am  
 Operator : bat  
 Sample : 212172-02 1/4.8  
 Misc : T15  
 ALS Vial : 29 Sample Multiplier: 1

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : D:\GCMS7 Methods\1216GAS80silox7.M  
 Title : TO-15 method

Signal : TIC: 121629.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.439	26	34	44	rVB2	9676	102691	8.07%	1.878%
2	5.605	64	72	85	rBV	267485	1272065	100.00%	23.257%
3	5.937	85	89	97	rVV	25659	208956	16.43%	3.820%
4	6.252	97	100	111	rVV	50017	217824	17.12%	3.982%
5	7.304	128	140	147	rBV2	13695	72057	5.66%	1.317%
6	8.224	169	173	179	rBV	17793	84076	6.61%	1.537%
7	8.487	180	183	187	rVV	11064	49667	3.90%	0.908%
8	9.882	238	244	252	rBV	109740	408298	32.10%	7.465%
9	13.142	484	493	506	rBV	136140 <sup>b</sup>	527806	41.49%	9.650%
10	13.744	516	522	530	rVB	41216	156643	12.31%	2.864%
11	17.716	688	694	703	rVB	190156 <sup>e</sup>	506656	39.83%	9.263%
12	18.130	712	718	726	rBV	216922 <sup>c</sup>	592759	46.60%	10.837%
13	19.578	786	792	803	rBV	214748 <sup>d</sup>	521376	40.99%	9.532%
14	20.638	851	856	861	rBV	257752 <sup>f</sup>	610119	47.96%	11.155%
15	21.277	895	900	913	rVB	11466	56997	4.48%	1.042%
16	22.865	1059	1070	1081	rBV2	29533	81566	6.41%	1.491%

Sum of corrected areas: 5469556

Signal : TIC: 121629.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.412	5	8	13	rBV4	4443	27146	7.11%	4.844%
2	5.591	64	71	79	rBV	86477	381720	100.00%	68.108%
3	6.232	96	99	110	rVB	30360	124475	32.61%	22.209%
4	13.749	519	522	532	rVB	9185	27121	7.10%	4.839%

Sum of corrected areas: 560462

Inputs

Analytes		Initial Int. Response	Integration w/o sub
Gx ICAL		4113304	79.724
Gx CCV/LCS		4107560	148.059
02-2958 MB		2522801	67.383
212172-01 1/7.8		2863061	73.808
212172-02 1/4.8		2868533	72.589

Final

	b	c	d	e	f		Net Response	Gx concent (ppbv)	DL	final	LCS % rec.
Calibration resp	1,4 Diflurobenzene	Chlorobenzene-d5	4-Bromofluorobenzene	Siloxane @RT 17.9	Siloxane @RT 20.85	Integration response	2217867	80.00	1	80.00	
CCV/LCS	521904	619796	587087	134700	31950	4113304	2209265	79.63	1	79.63	99.54
02-2958 MB	481231	553073	470246	128740	23062	1962219	305867	8.17	1	8.17	
212172-01 1/7.8	517739	305816	699516	305816	336666	16069832	13904279	358.44	7.8	2795.86	
212172-02 1/4.8	527806	592759	521376	506656	610119	3503139	744423	18.84	4.8	90.42	

final concentration =sample Gx response \*(cal conc./cal response) \*dil factor

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121629.D  
 Acq On : 17 Dec 2022 9:29 am  
 Operator : bat  
 Sample : 212172-02 1/4.8  
 Misc : T15  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 22 14:35:53 2022  
 Quant Method : D:\GCMS7 Methods\1216GAS80silox7.M  
 Quant Title : TO-15 method  
 QLast Update : Mon Dec 19 18:05:16 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	49147	10.000	ppbv	# 0.00
2) 1,4-Difluorobenzene <i>y</i>	13.14	114	196780	10.000	ppbv	0.00
3) Chlorobenzene-d5 <i>d</i>	18.13	117	181102	10.000	ppbv	0.00
System Monitoring Compounds						
4) 4-Bromofluorobenzene <i>a</i>	19.58	95	103623	8.979	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	89.80%
Target Compounds						
5) NWTPH-Gx	18.31	TIC	3503139m	128.894	ppbv	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

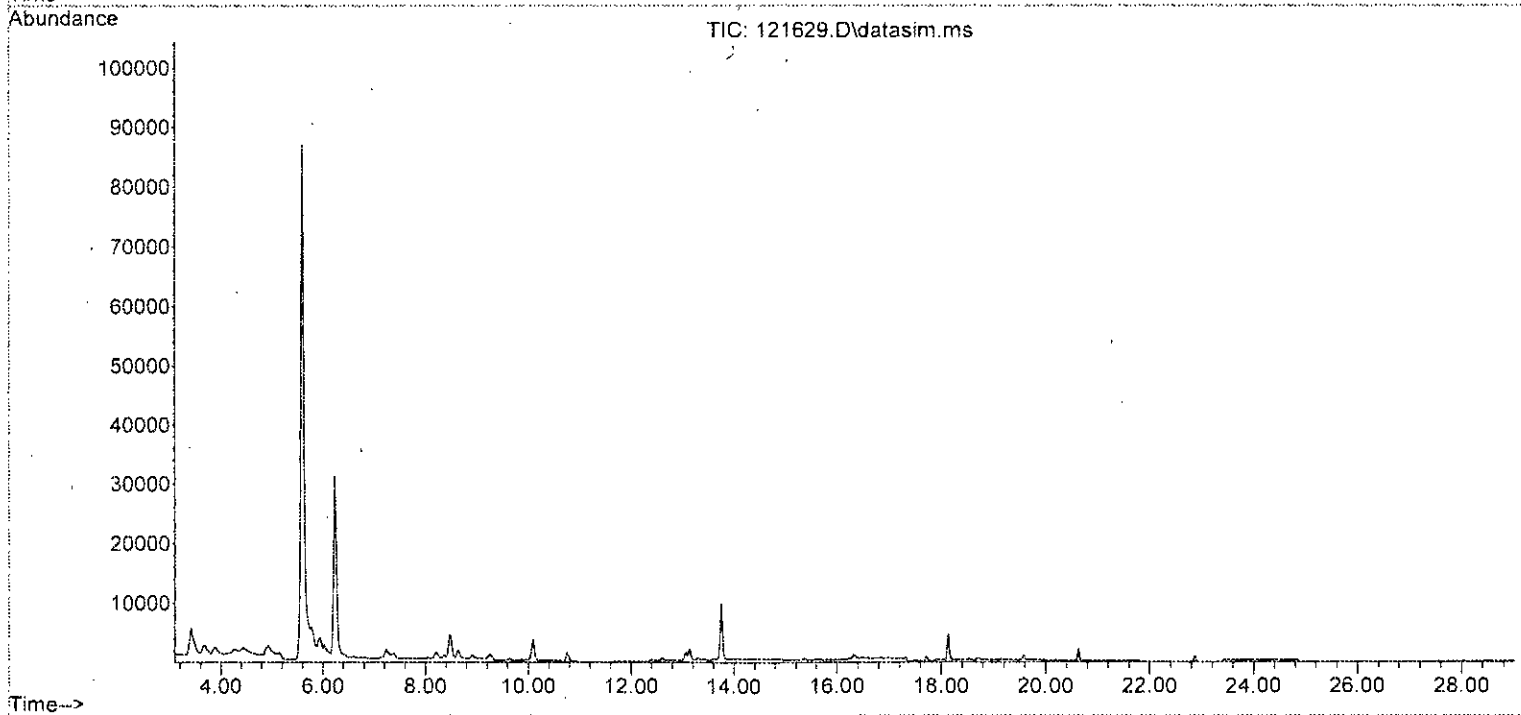
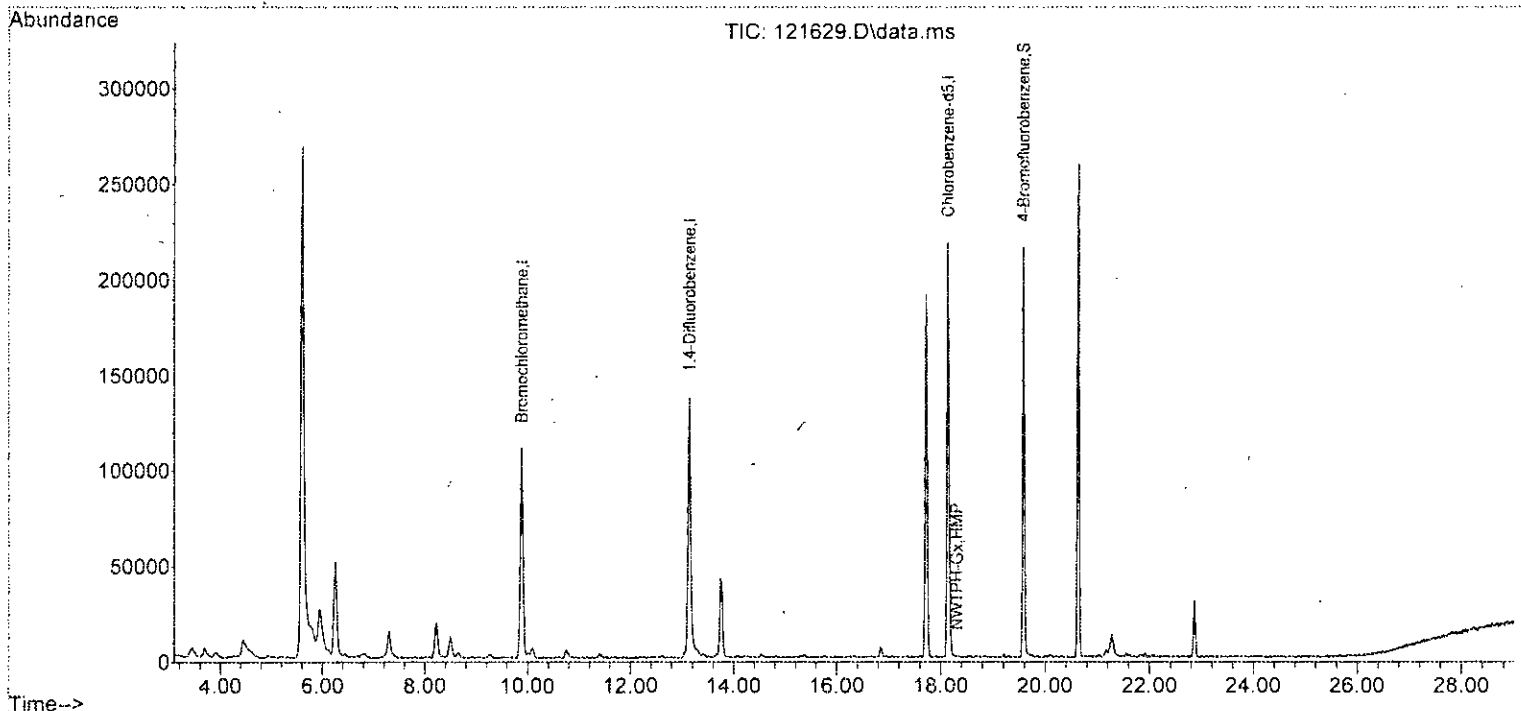
*d* Siloxan @KT 17.7  
*f* Siloxa @ 20.6

*See excel cal  
 < 80 ppbv*

*h  
 label*

Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121629.D  
Acq On : 17 Dec 2022 9:29 am  
Operator : bat  
Sample : 212172-02 1/4.8  
Misc : T15  
ALS Vial : 29 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Dec 22 14:35:53 2022  
Quant Method : D:\GCMS7 Methods\1216GAS80silox7.M  
Quant Title : T0-15 method  
Qlast Update : Mon Dec 19 18:05:16 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121629.D  
 Acq On : 17 Dec 2022 9:29 am  
 Operator : bat  
 Sample : 212172-02 1/4.8  
 Misc : T15  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 22 14:37:49 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

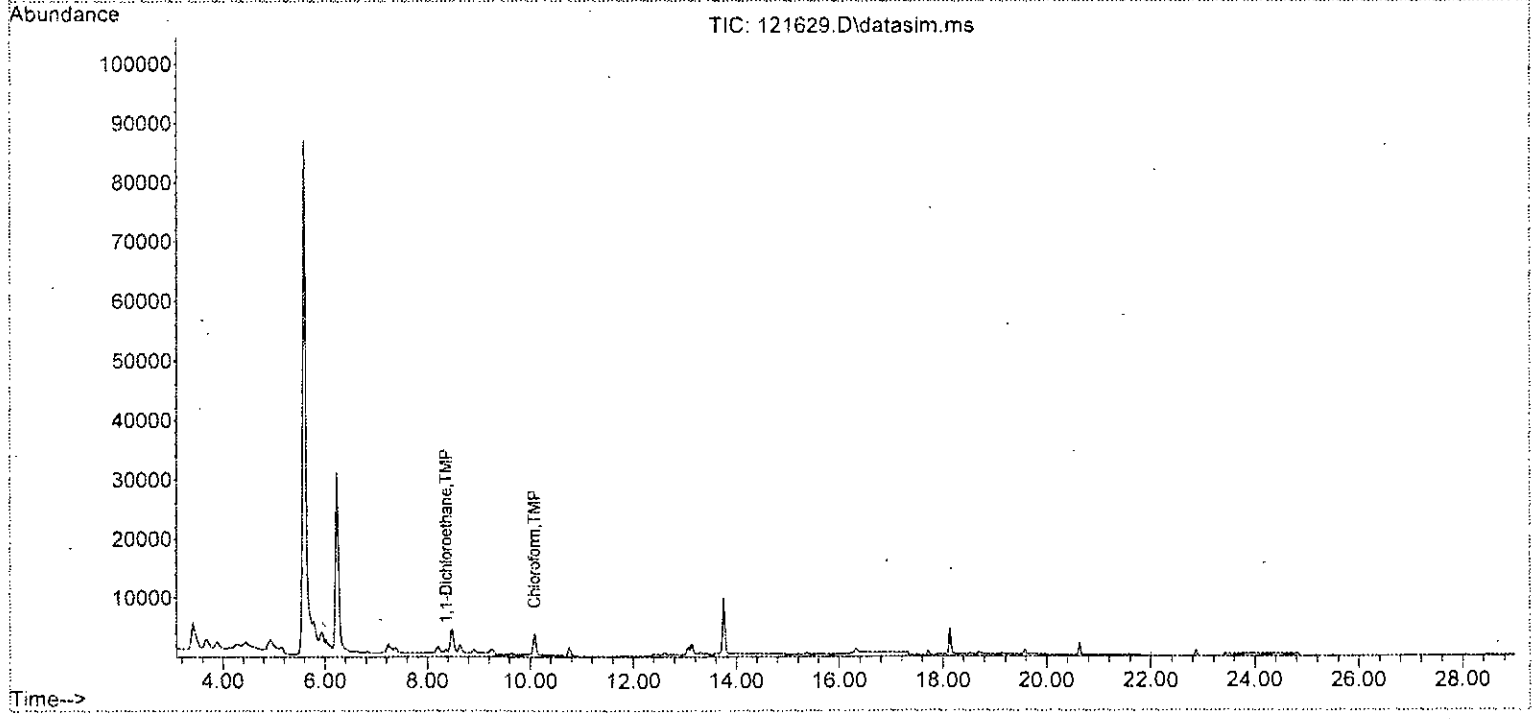
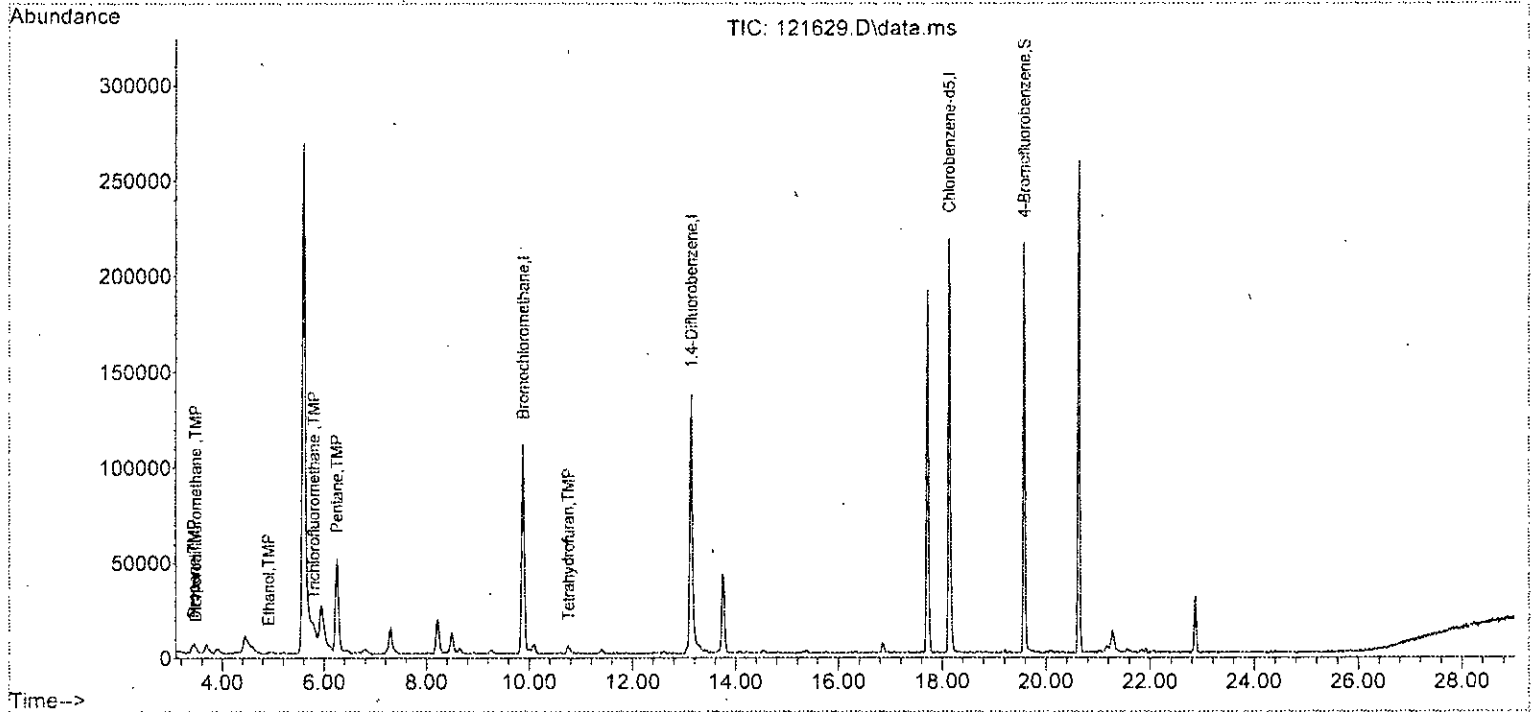
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	49147	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	196780	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	181102	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	103623	8.256	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	82.60%
Target Compounds						
						Qvalue
2) Propene	3.45	41	4113	0.555	ppbv #	1
3) Dichlorodifluoromethane	3.49	85	2358	0.116	ppbv	88
12) Ethanol	4.92	45	7006	2.149	ppbv	83
14) Pentane	6.25	43	69677	5.762	ppbv	99
15) Trichlorofluoromethane	5.80	101	6730	0.286	ppbv	80
27] 1,1-Dichloroethane	8.36	63	1320	0.080	ppbv	99
30] Chloroform	10.08	83	8139	0.421	ppbv	97
32) Tetrahydrofuran	10.76	42	5128	0.577	ppbv	89
77] Naphthalene	23.46	128	258	Below Cal	#	1

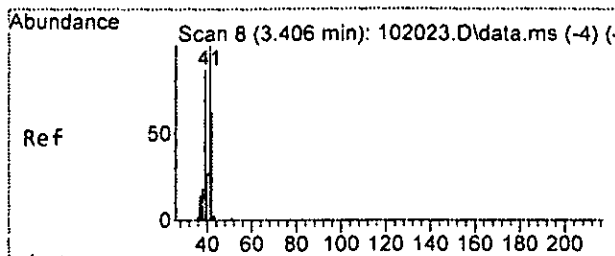
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121629.D  
Acq On : 17 Dec 2022 9:29 am  
Operator : bat  
Sample : 212172-02 1/4.8  
Misc : T15  
ALS Vial : 29 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Dec 22 14:37:49 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M

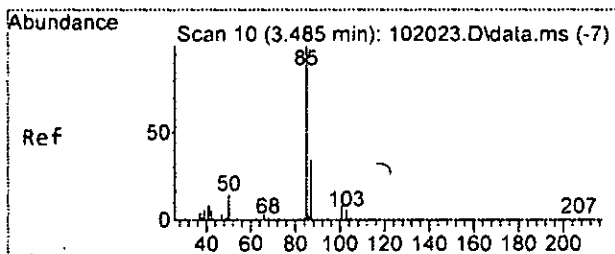
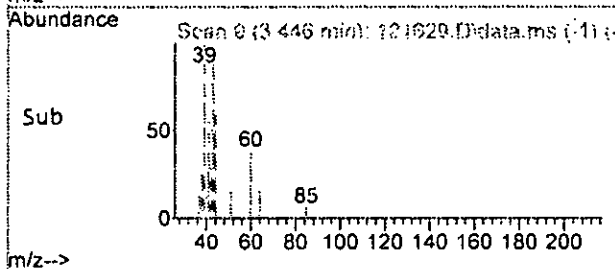
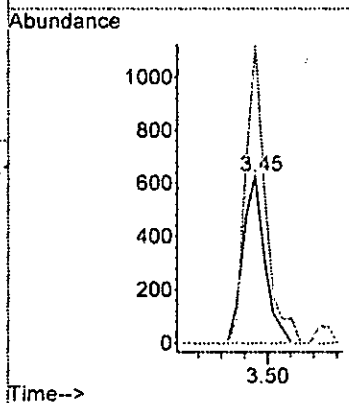
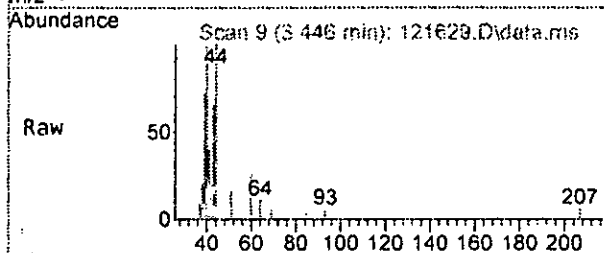




#2  
 Propene  
 Concen: 0.555 ppbv  
 RT: 3.45 min Scan# 9  
 Delta R.T. 0.039 min  
 Lab File: 121629.D  
 Acq: 17 Dec 2022 9:29 am

Tgt Ion: 41 Resp: 4113

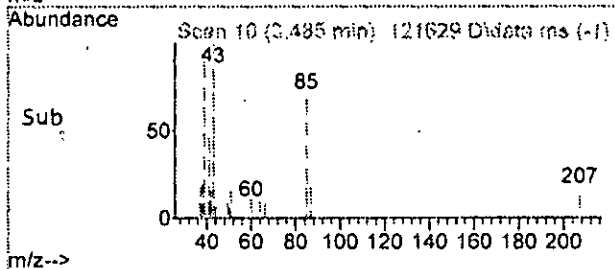
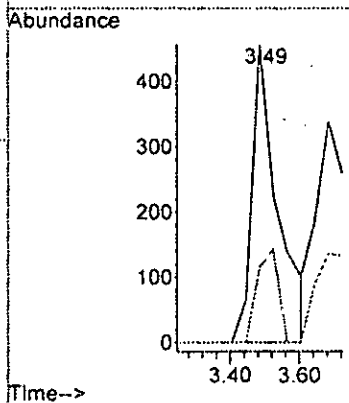
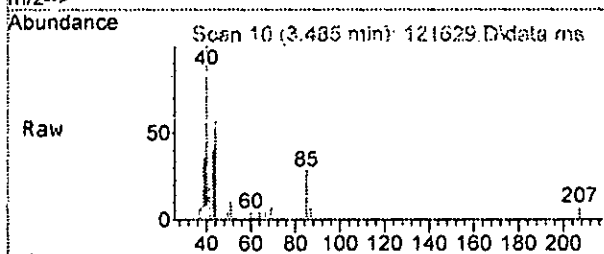
Ion	Ratio	Lower	Upper
41	100		
39	178.5	45.6	105.6#
27	0.0	0.0	30.0

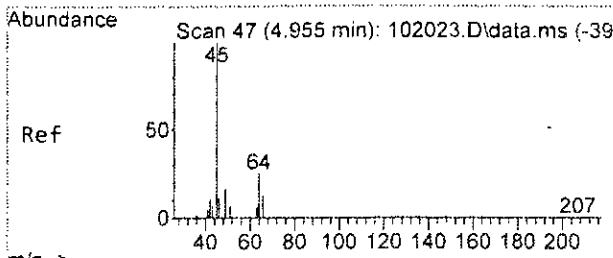


#3  
 Dichlorodifluoromethane  
 Concen: 0.116 ppbv  
 RT: 3.49 min Scan# 10  
 Delta R.T. 0.000 min  
 Lab File: 121629.D  
 Acq: 17 Dec 2022 9:29 am

Tgt Ion: 85 Resp: 2358

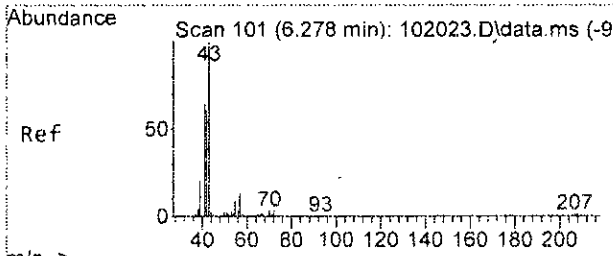
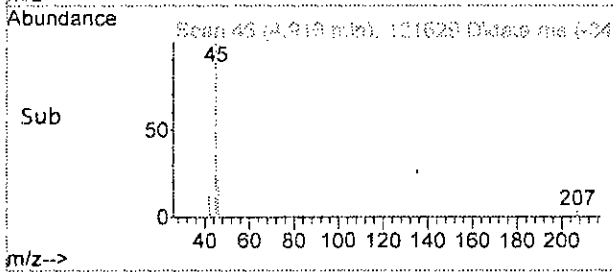
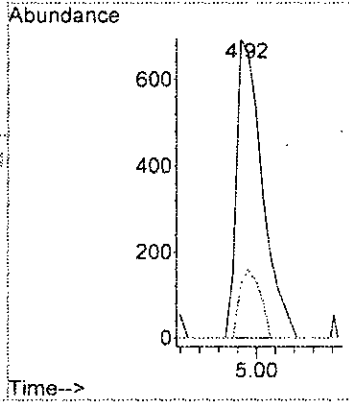
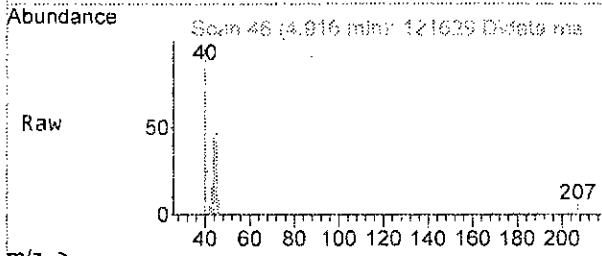
Ion	Ratio	Lower	Upper
85	100		
87	25.3	2.2	62.2





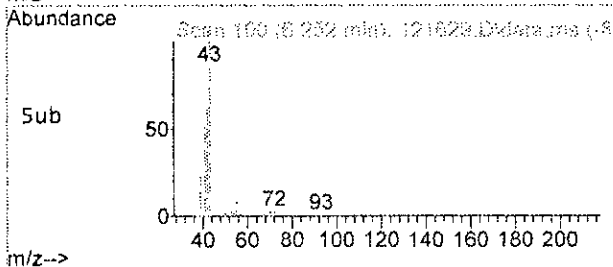
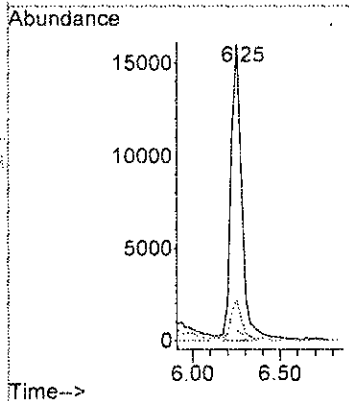
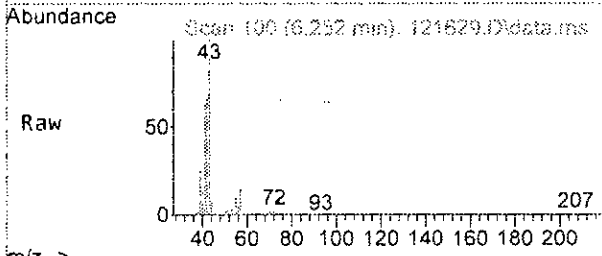
#12  
 Ethanol  
 Concen: 2.149 ppbv  
 RT: 4.92 min Scan# 46  
 Delta R.T. -0.039 min  
 Lab File: 121629.D  
 Acq: 17 Dec 2022 9:29 am

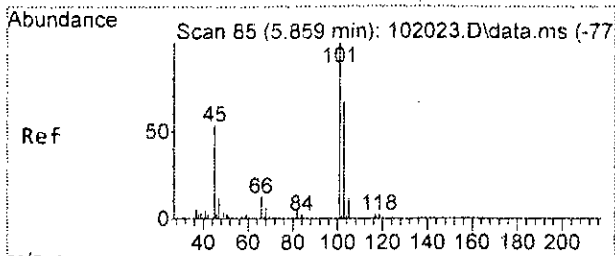
Tgt Ion: 45 Resp: 7006  
 Ion Ratio Lower Upper  
 45 100  
 46 17.1 0.0 55.5



#14  
 Pentane  
 Concen: 5.762 ppbv  
 RT: 6.25 min Scan# 100  
 Delta R.T. 0.000 min  
 Lab File: 121629.D  
 Acq: 17 Dec 2022 9:29 am

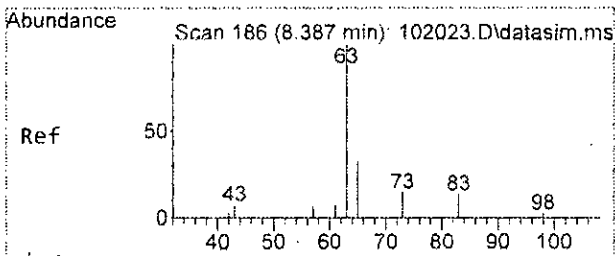
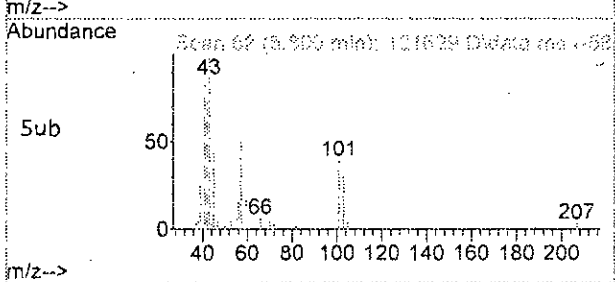
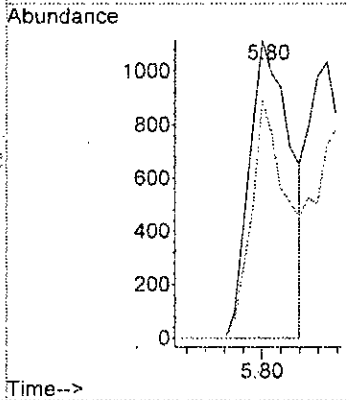
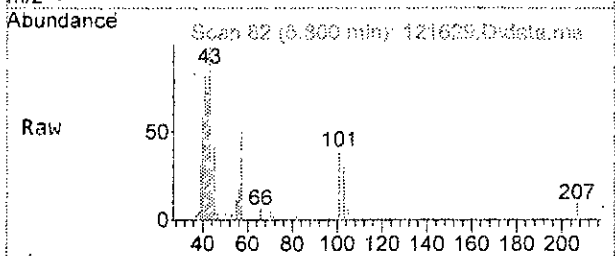
Tgt Ion: 43 Resp: 69677  
 Ion Ratio Lower Upper  
 43 100  
 57 13.8 0.0 43.5  
 72 3.2 0.0 34.2





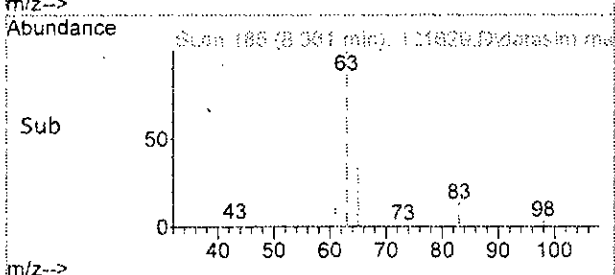
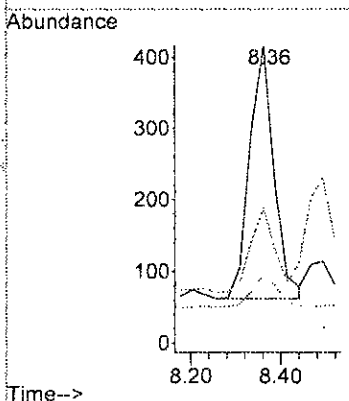
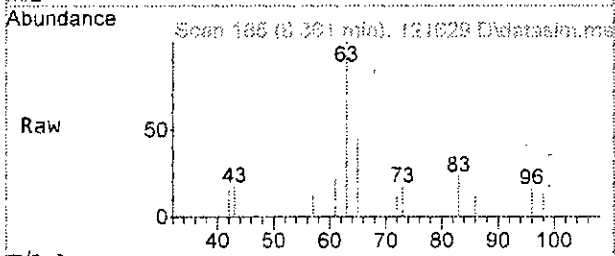
#15  
 Trichlorofluoromethane  
 Concen: 0.286 ppbv  
 RT: 5.80 min Scan# 82  
 Delta R.T. -0.039 min  
 Lab File: 121629.D  
 Acq: 17 Dec 2022 9:29 am

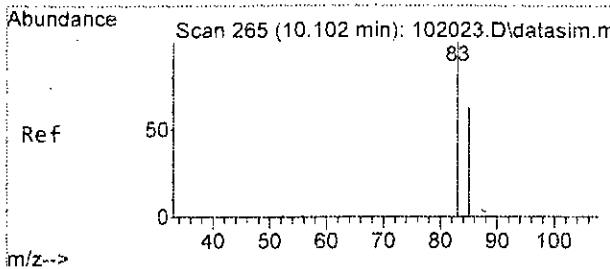
Tgt Ion: 101 Resp: 6730  
 Ion Ratio Lower Upper  
 101 100  
 103 79.9 34.5 94.5



#27  
 1,1-Dichloroethane  
 Concen: 0.080 ppbv  
 RT: 8.36 min Scan# 185  
 Delta R.T. 0.000 min  
 Lab File: 121629.D  
 Acq: 17 Dec 2022 9:29 am

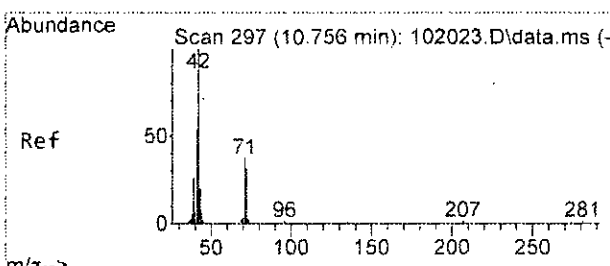
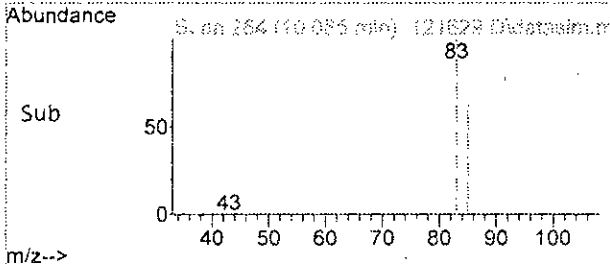
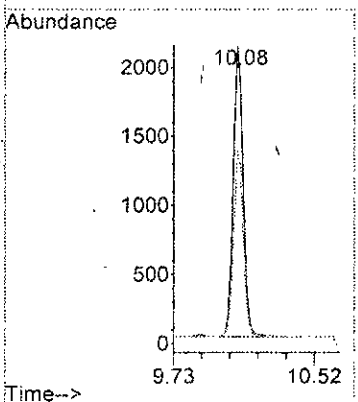
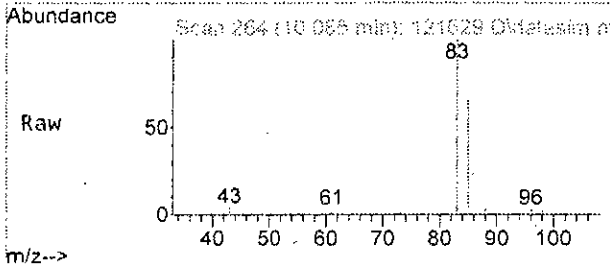
Tgt Ion: 63 Resp: 1320  
 Ion Ratio Lower Upper  
 63 100  
 65 33.0 2.5 62.5  
 83 12.7 0.0 43.2





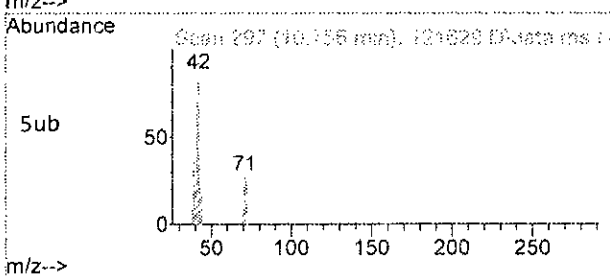
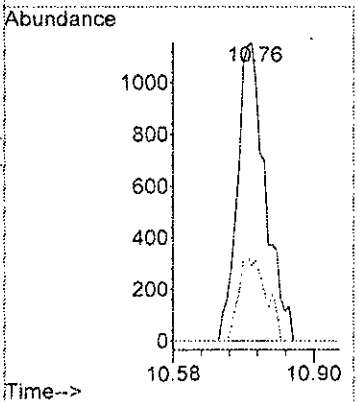
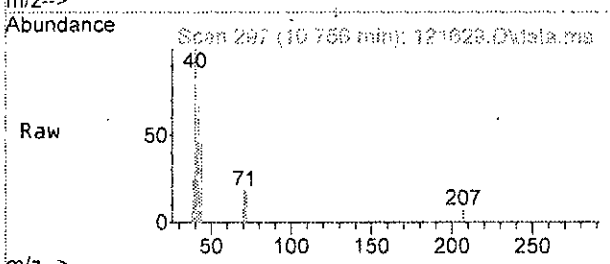
#30  
 Chloroform  
 Concen: 0.421 ppbv  
 RT: 10.08 min Scan# 264  
 Delta R.T. -0.017 min  
 Lab File: 121629.D  
 Acq: 17 Dec 2022 9:29 am

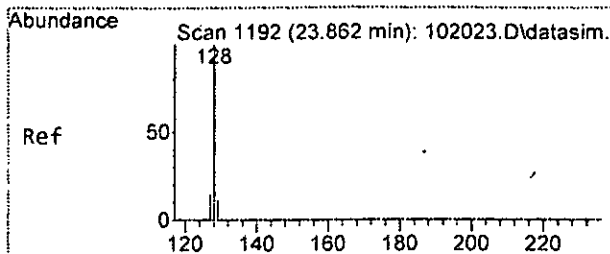
Tgt Ion: 83 Resp: 8139  
 Ion Ratio Lower Upper  
 83 100  
 85 64.1 36.3 96.3



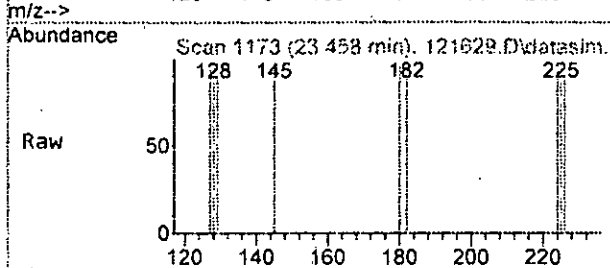
#32  
 Tetrahydrofuran  
 Concen: 0.577 ppbv  
 RT: 10.76 min Scan# 297  
 Delta R.T. 0.009 min  
 Lab File: 121629.D  
 Acq: 17 Dec 2022 9:29 am

Tgt Ion: 42 Resp: 5128  
 Ion Ratio Lower Upper  
 42 100  
 72 27.6 3.7 63.7



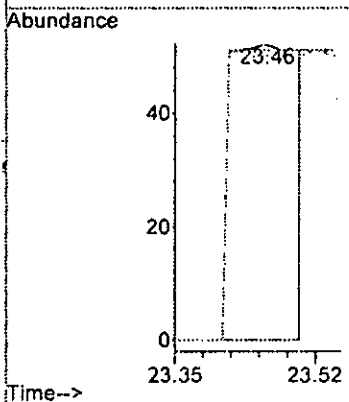
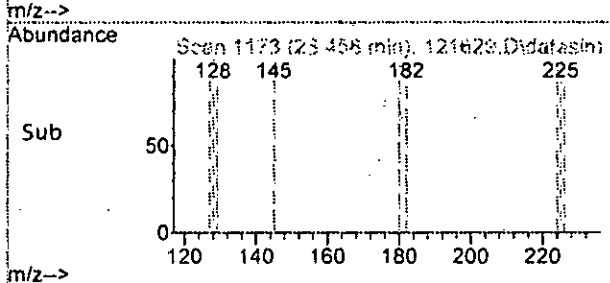


#77  
 Naphthalene  
 Concen: Below Cal  
 RT: 23.46 min Scan# 1173  
 Delta R.T. -0.383 min  
 Lab File: 121629.D  
 Acq: 17 Dec 2022 9:29 am



Tgt Ion: 128 Resp: 258

Ion	Ratio	Lower	Upper
128	100		
129	98.1	0.0	41.0#
127	96.2	0.0	43.2#



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121629.D  
 Acq On : 17 Dec 2022 9:29 am  
 Operator : bat  
 Sample : 212172-02 1/4.8  
 Misc : T15  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 22 14:37:49 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	49147	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	196780	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	181102	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	103623	8.256	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	82.60%
Target Compounds						
						Qvalue
2) Propene	3.45	41	4113	0.555	ppbv #	1
3) Dichlorodifluoromethane	3.49	85	2358	0.116	ppbv	88
4) Chloromethane	3.69	50	522	N.D.		
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) 1,3-Butadiene	0.00		0	N.D.		
8) Butane	4.28	43	4995	N.D.		
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.		
12) Ethanol	4.92	45	7006	2.149	ppbv	83
13) Acrolein	0.00		0	N.D.		
14) Pentane	6.25	43	69677	5.762	ppbv	99
15) Trichlorofluoromethane	5.80	101	6730	0.286	ppbv	80
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	5.80	45	4997	N.D.		
18) 1,1-Dichloroethene	0.00		0	N.D.		
19) trans-1,2-Dichloroethene	0.00		0	N.D.		
20) Methylene chloride	6.78	84	2708	N.D.		
21) t-Butyl alcohol (TBA)	0.00		0	N.D.		
22) 3-Chloropropene	6.83	41	1029	N.D.		
23) CFC-113	7.15	101	349	N.D.		
24) Carbon disulfide	7.23	76	8134	N.D.		
25) Methyl t-butyl ether (...)	8.22	73	453	N.D.		
26) Vinyl acetate	8.49	43	1887	N.D.		
27) 1,1-Dichloroethane	8.36	63	1320	0.080	ppbv	99
28) cis-1,2-Dichloroethene	9.62	96	354	N.D.		
29) Hexane	10.03	57	936	N.D.		
30) Chloroform	10.08	83	8139	0.421	ppbv	97
31) Ethyl acetate	9.99	43	1034	N.D.		
32) Tetrahydrofuran	10.76	42	5128	0.577	ppbv	89
33) 2-Butanone (MEK)	0.00		0	N.D.		
34) 1,2-Dichloroethane (EDC)	0.00		0	N.D.		
35) 1,1,1-Trichloroethane	11.80	97	781	N.D.		
36) Carbon tetrachloride	0.00		0	N.D.		
37) Benzene	12.61	78	1604	N.D.		
38) Cyclohexane	13.07	84	1342	N.D.		
40) 1,2-Dichloropropane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121629.D  
 Acq On : 17 Dec 2022 9:29 am  
 Operator : bat  
 Sample : 212172-02 1/4.8  
 Misc : T15  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 22 14:37:49 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

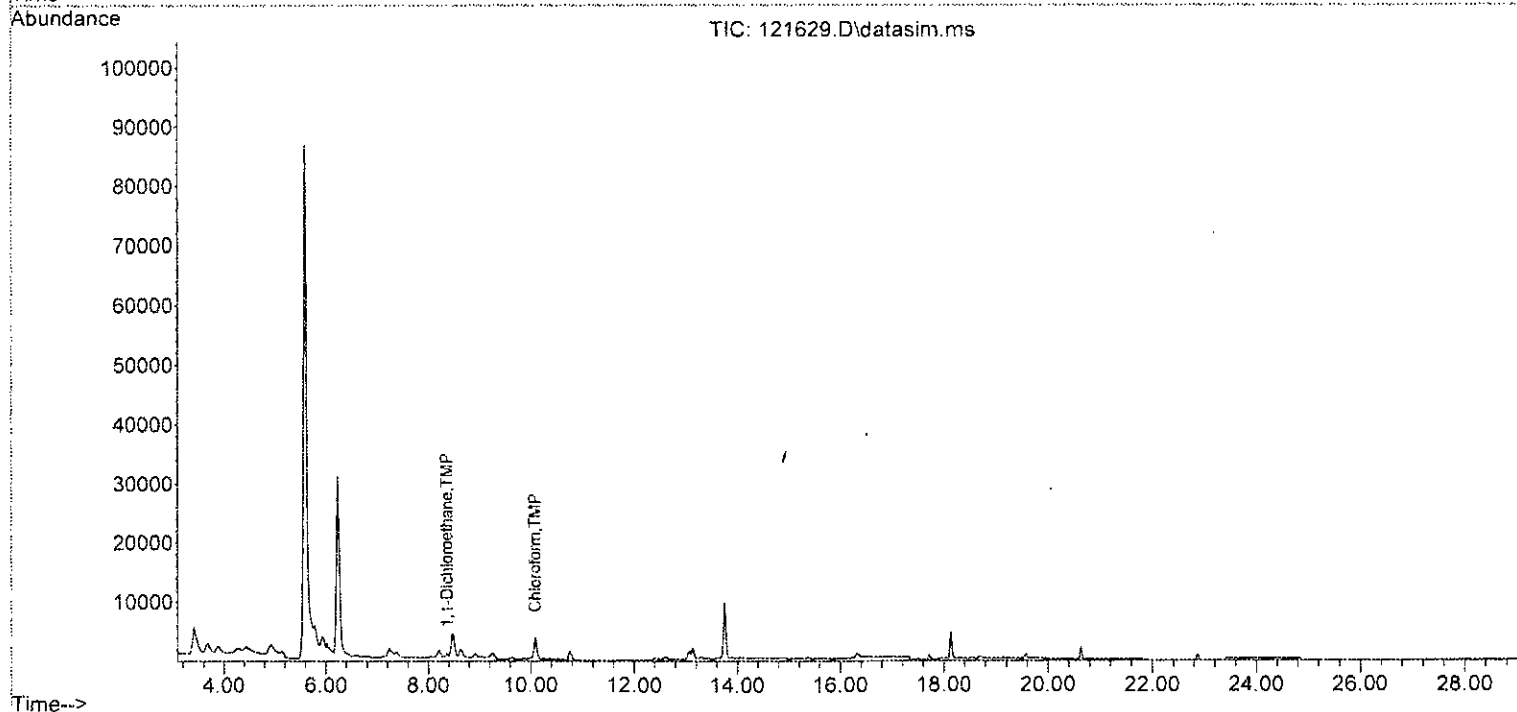
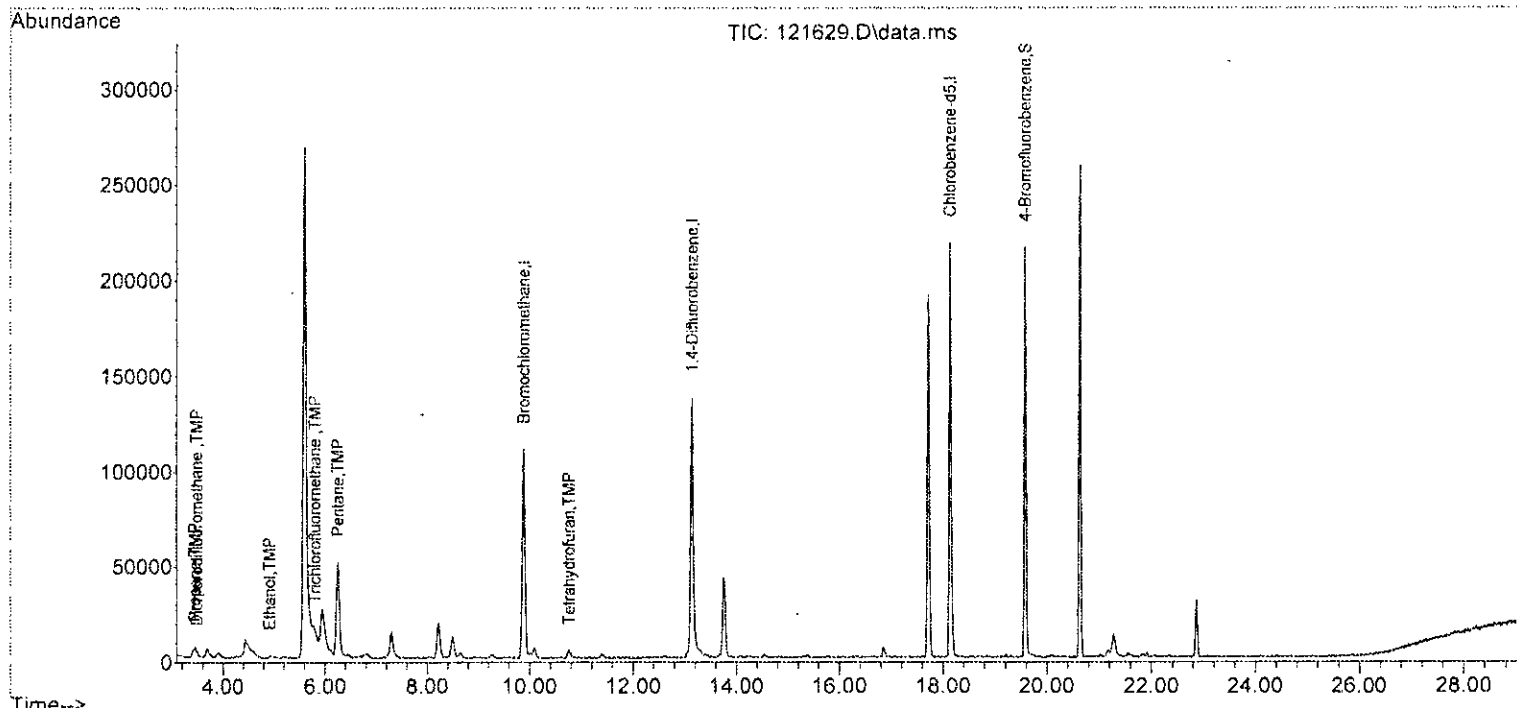
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	13.75	88	140		N.D.	
42) 2,2,4-Trimethylpentane	14.24	57	817		N.D.	
43) Methyl methacrylate	14.21	41	379		N.D.	
44) Heptane	14.53	43	1162		N.D.	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	0.00		0		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	16.31	92	2369		N.D.	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	16.56	43	181		N.D.	
53) Tetrachloroethene	17.52	164	120		N.D.	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	18.53	91	340		N.D.	
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
60) Nonane	19.30	43	185		N.D.	
61) Isopropylbenzene	0.00		0		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D.	
64) 4-Ethyltoluene	20.32	105	109		N.D.	
65) m,p-Xylene	18.70	106	278		N.D.	
66) o-Xylene	19.15	106	104		N.D.	
67) Styrene	0.00		0		N.D.	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D. d	
71) 1,3,5-Trimethylbenzene	20.64	105	1260		N.D.	
72) 1,2,4-Trimethylbenzene	20.64	105	1260		N.D.	
73) 1,3-Dichlorobenzene	20.63	146	205		N.D.	
74) 1,4-Dichlorobenzene	20.63	146	204		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77] Naphthalene	23.46	128	258	Below Cal	#	1
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121629.D  
 Acq On : 17 Dec 2022 9:29 am  
 Operator : bat  
 Sample : 212172-02 1/4.8  
 Misc : T15  
 ALS Vial : 29 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 22 14:37:49 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

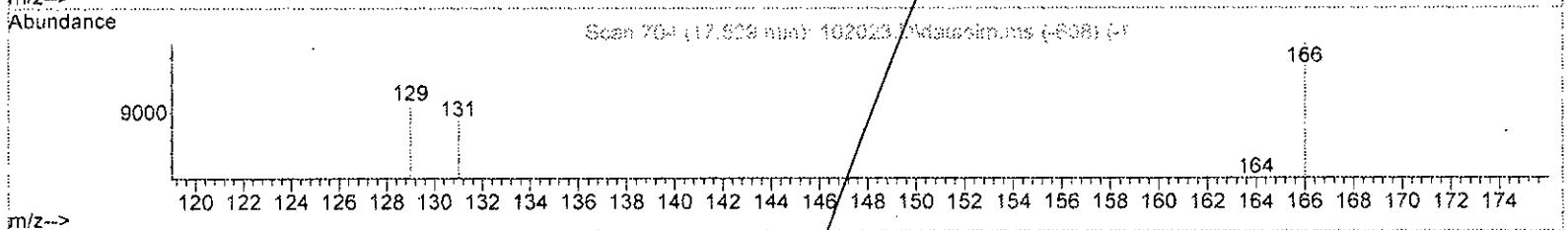
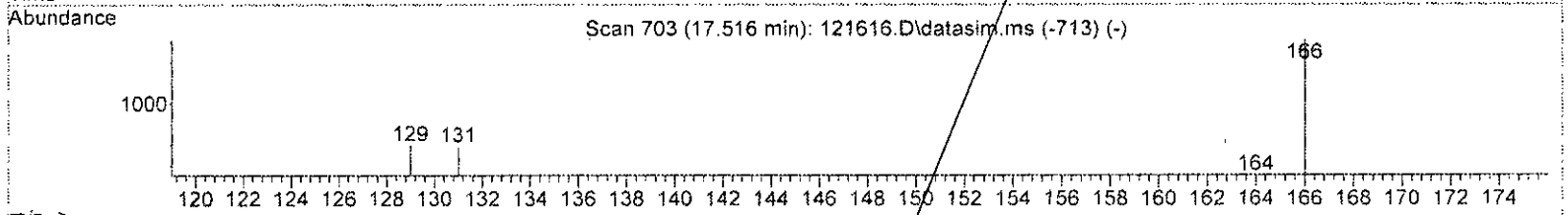
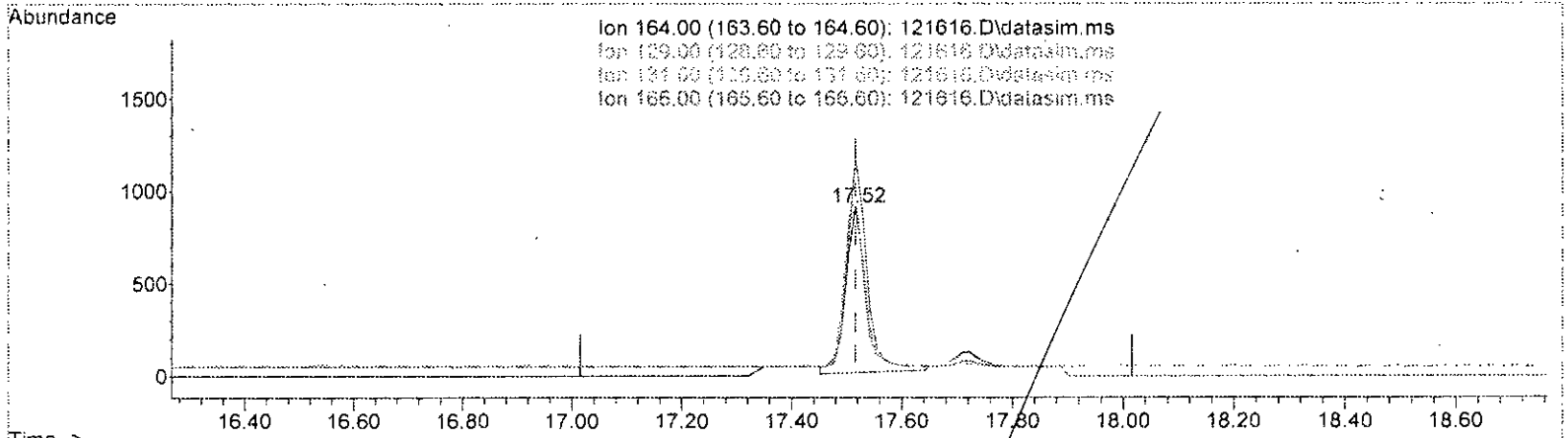


# EPA TO-15 Sample Data

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121616.D  
 Acq On : 17 Dec 2022 12:55 am  
 Operator ~: bat  
 Sample : 212177-01 1/5.0  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121616.D\data.ms

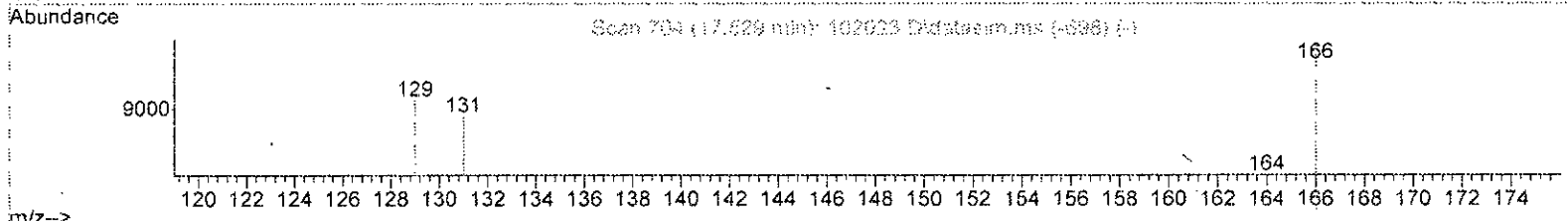
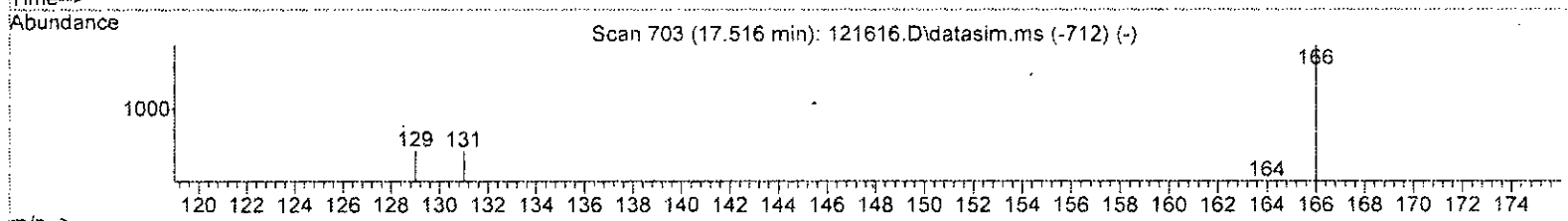
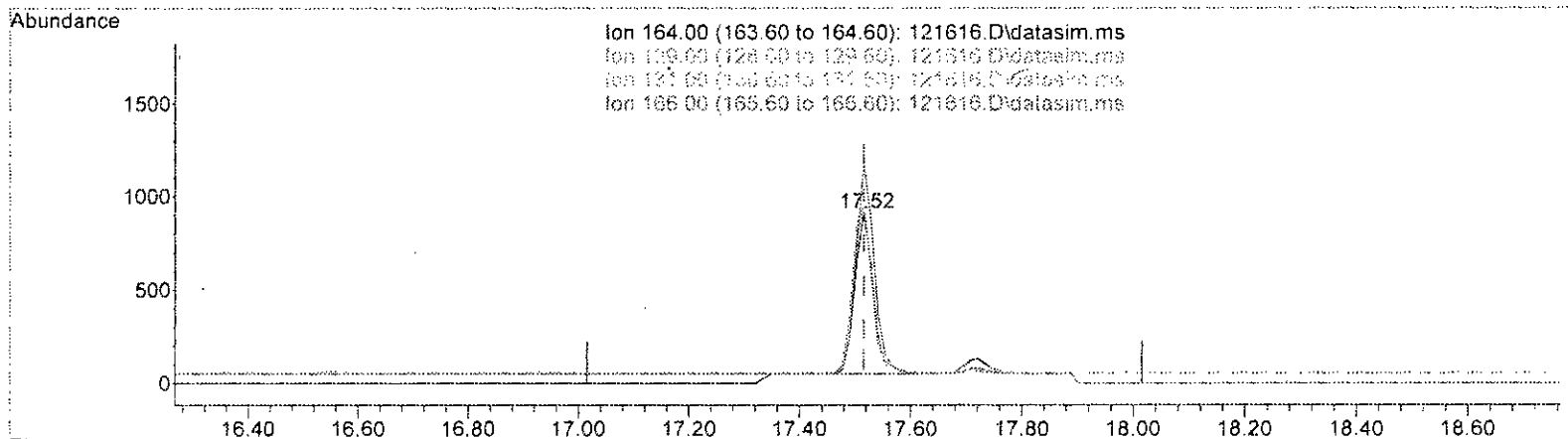
(53) Tetrachloroethene (TMP)		
17.516min (+ 0.000)	0.243	ppbv
response	2340	
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	106.72
131.00	100.70	106.37
166.00	137.50	130.36

M  
2/2/16

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121616.D  
 Acq On : 17 Dec 2022 12:55 am  
 Operator : bat  
 Sample : 212177-01 1/5.0  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121616.D\data.ms

(53) Tetrachloroethene (TMP)

17.516min (+ 0.000) 0.209 ppbv m

response	2009	
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	106.46
131.00	100.70	106.46
166.00	137.50	128.70

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121616.D  
 Acq On : 17 Dec 2022 12:55 am  
 Operator : bat  
 Sample : 212177-01 1/5.0  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

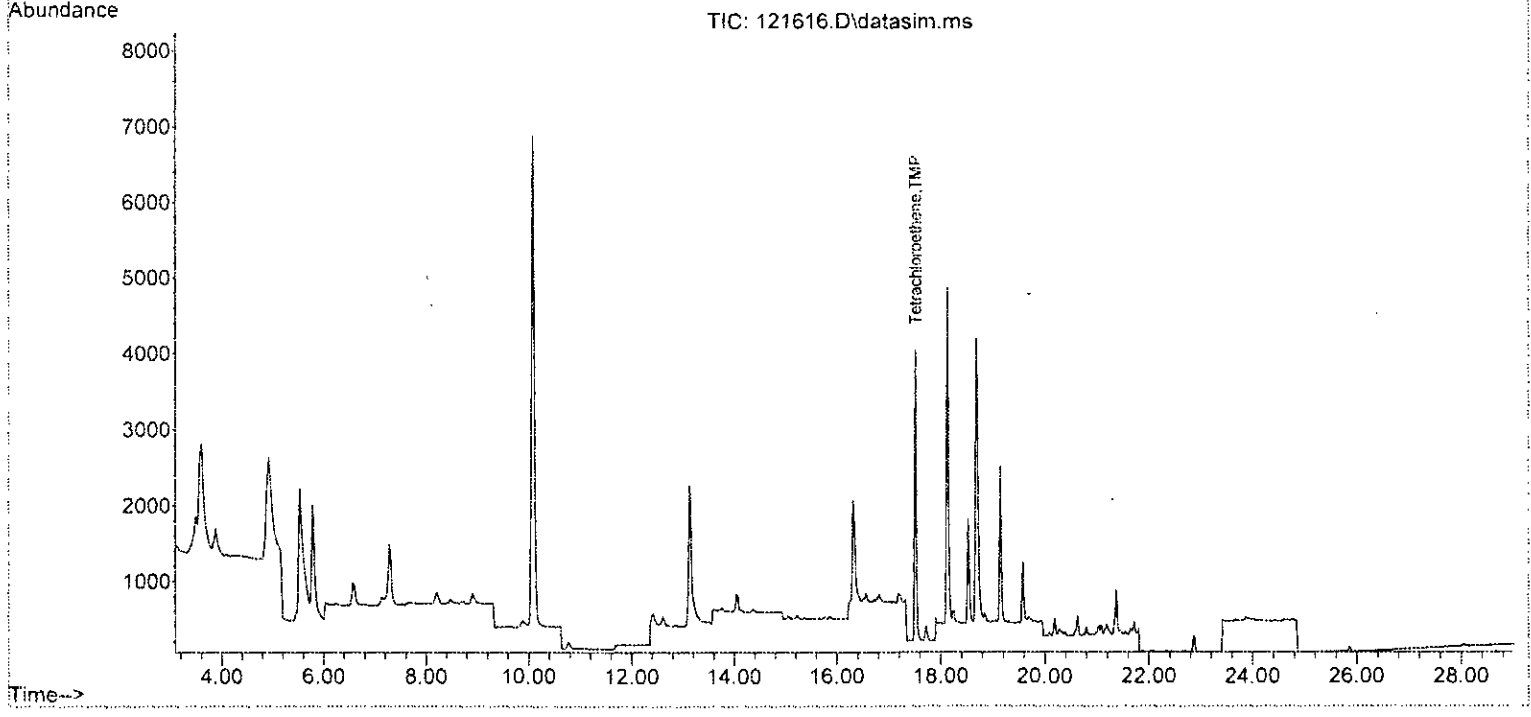
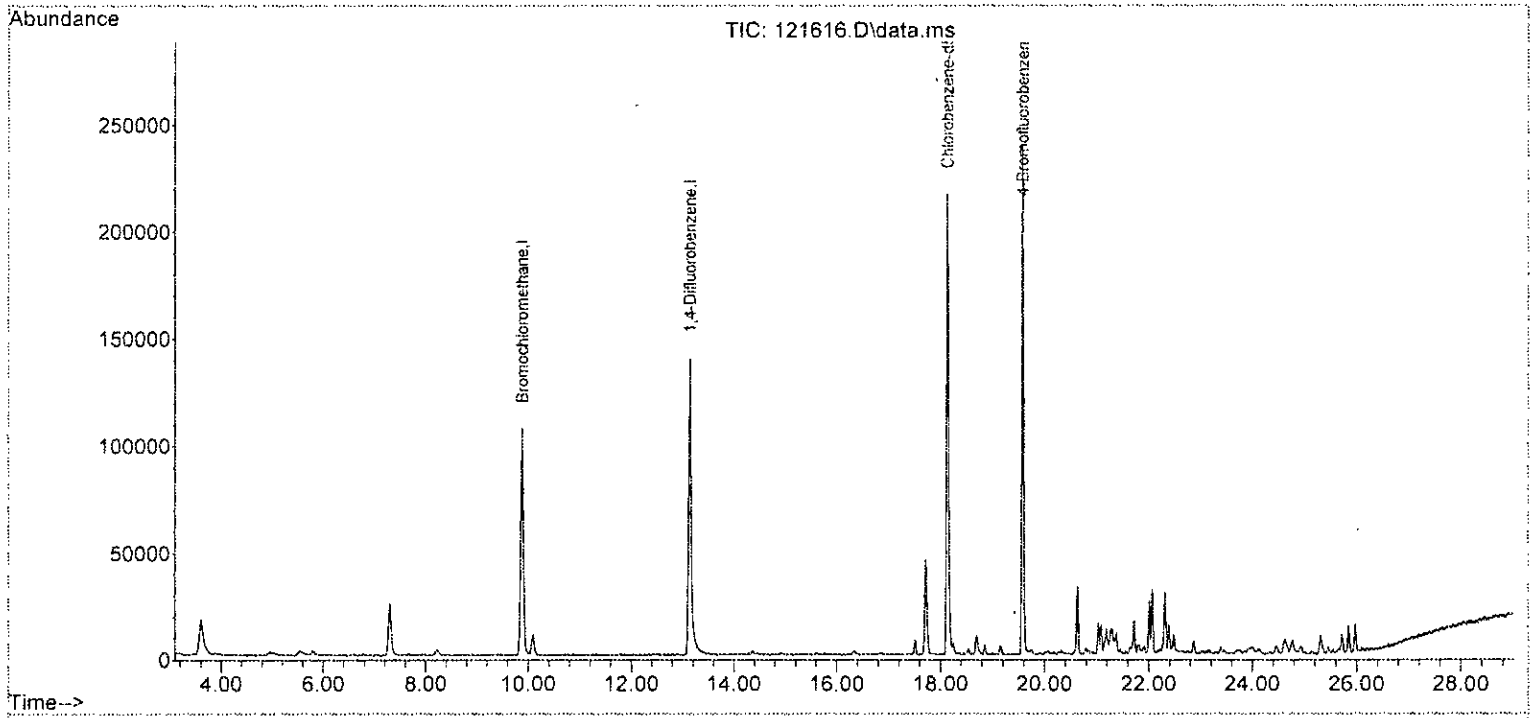
Quant Time: Dec 18 15:28:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

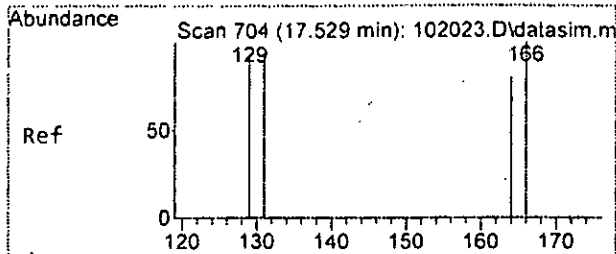
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.88	128	49496	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	196417	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	178767	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	106845	8.624	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	86.20%
Target Compounds						
53] Tetrachloroethene	17.52	164	2009m	0.209	ppbv	Qvalue
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

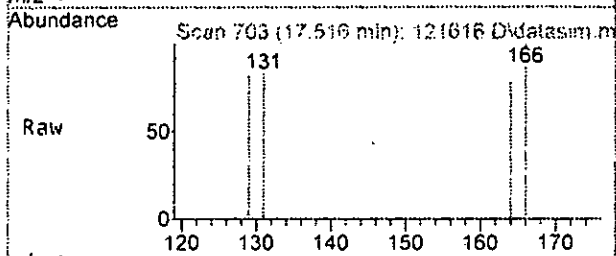
Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121616.D  
Acq On : 17 Dec 2022 12:55 am  
Operator : bat  
Sample : 212177-01 1/5.0  
Misc : T6  
ALS Vial : 16 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Dec 18 15:28:37 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M



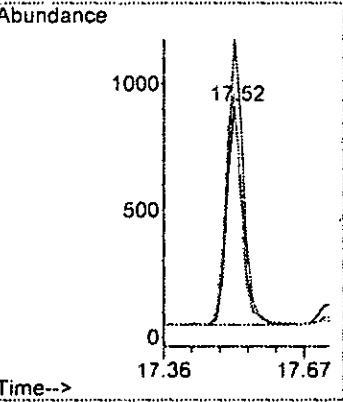
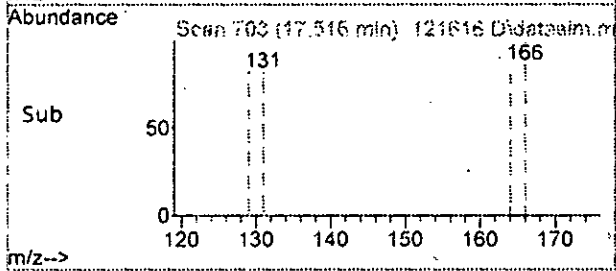


#53  
 Tetrachloroethene  
 Concen: 0.209 ppbv m  
 RT: 17.52 min Scan# 703  
 Delta R.T. 0.000 min  
 Lab File: 121616.D  
 Acq: 17 Dec 2022 12:55 am



Tgt Ion: 164 Resp: 2009

Ion	Ratio	Lower	Upper
164	100		
129	106.5	63.2	123.2
131	106.5	70.7	130.7
166	128.7	107.5	167.5



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121616.D  
 Acq On : 17 Dec 2022 12:55 am  
 Operator : bat  
 Sample : 212177-01 1/5.0  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:37 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	49496	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	196417	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	178767	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	106845	8.624	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	86.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0		N.D.	
3) Dichlorodifluoromethane	0.00		0		N.D. d	
4) Chloromethane	0.00		0		N.D. d	
5) F-114	0.00		0		N.D.	
6) Vinyl chloride	0.00		0		N.D.	
7) 1,3-Butadiene	0.00		0		N.D.	
8) Butane	0.00		0		N.D.	
9) Bromomethane	0.00		0		N.D.	
10) Chloroethane	0.00		0		N.D.	
11) Vinyl bromide	0.00		0		N.D. d	
12) Ethanol	0.00		0		N.D. d	
13) Acrolein	0.00		0		N.D.	
14) Pentane	0.00		0		N.D.	
15) Trichlorofluoromethane	0.00		0		N.D. d	
16) Acetone	0.00		0		N.D. d	
17) 2-Propanol	0.00		0		N.D. d	
18) 1,1-Dichloroethene	0.00		0		N.D.	
19) trans-1,2-Dichloroethene	0.00		0		N.D.	
20) Methylene chloride	0.00		0		N.D. d	
21) t-Butyl alcohol (TBA)	0.00		0		N.D. d	
22) 3-Chloropropene	0.00		0		N.D.	
23) CFC-113	0.00		0		N.D.	
24) Carbon disulfide	0.00		0		N.D. d	
25) Methyl t-butyl ether (...)	0.00		0		N.D.	
26) Vinyl acetate	0.00		0		N.D.	
27) 1,1-Dichloroethane	0.00		0		N.D.	
28) cis-1,2-Dichloroethene	9.87	96	218		N.D.	
29) Hexane	0.00		0		N.D.	
30) Chloroform	0.00		0		N.D. d	
31) Ethyl acetate	0.00		0		N.D. d	
32) Tetrahydrofuran	0.00		0		N.D. d	
33) 2-Butanone (MEK)	0.00		0		N.D.	
34) 1,2-Dichloroethane (EDC)	0.00		0		N.D.	
35) 1,1,1-Trichloroethane	11.69	97	120		N.D.	
36) Carbon tetrachloride	0.00		0		N.D.	
37) Benzene	0.00		0		N.D. d	
38) Cyclohexane	0.00		0		N.D. d	
40) 1,2-Dichloropropane	0.00		0		N.D. d	



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121616.D  
 Acq On : 17 Dec 2022 12:55 am  
 Operator : bat  
 Sample : 212177-01 1/5.0  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

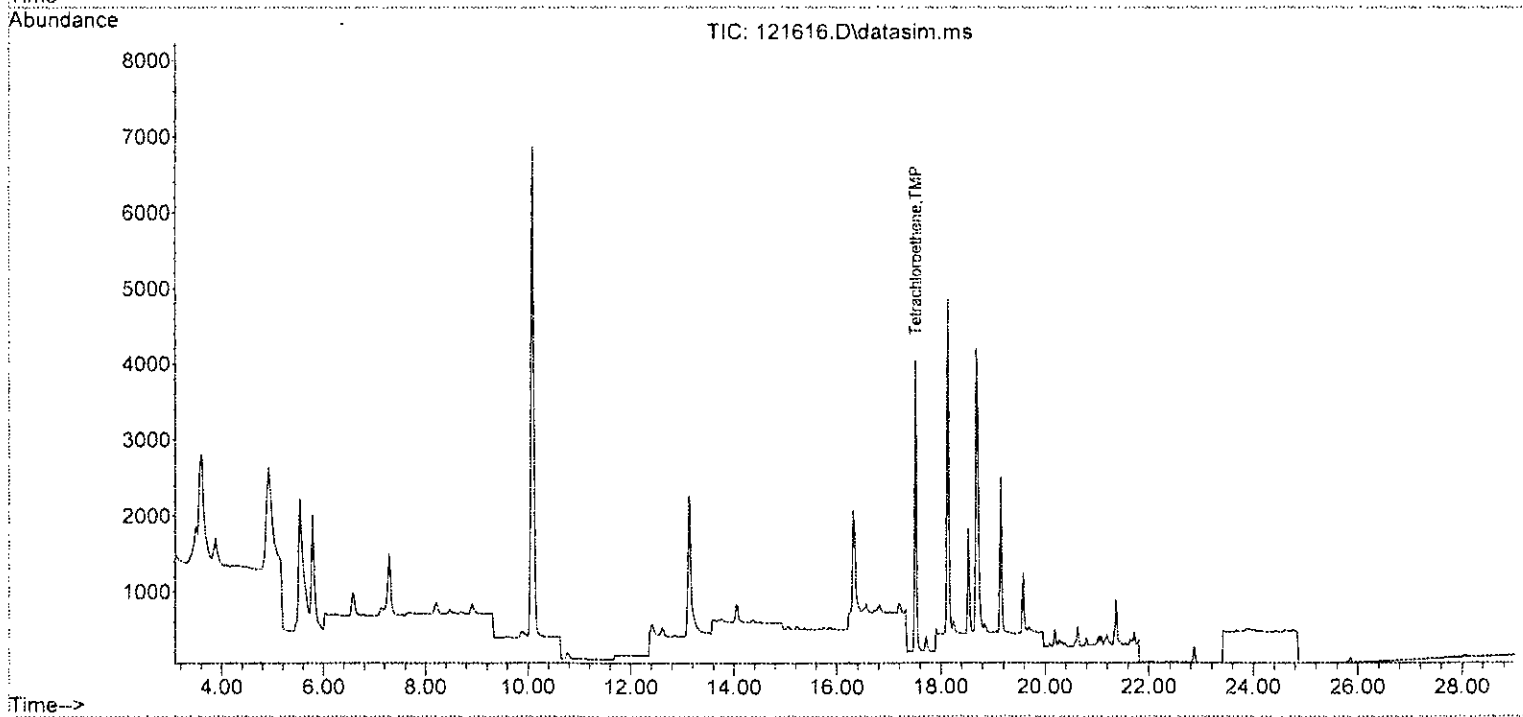
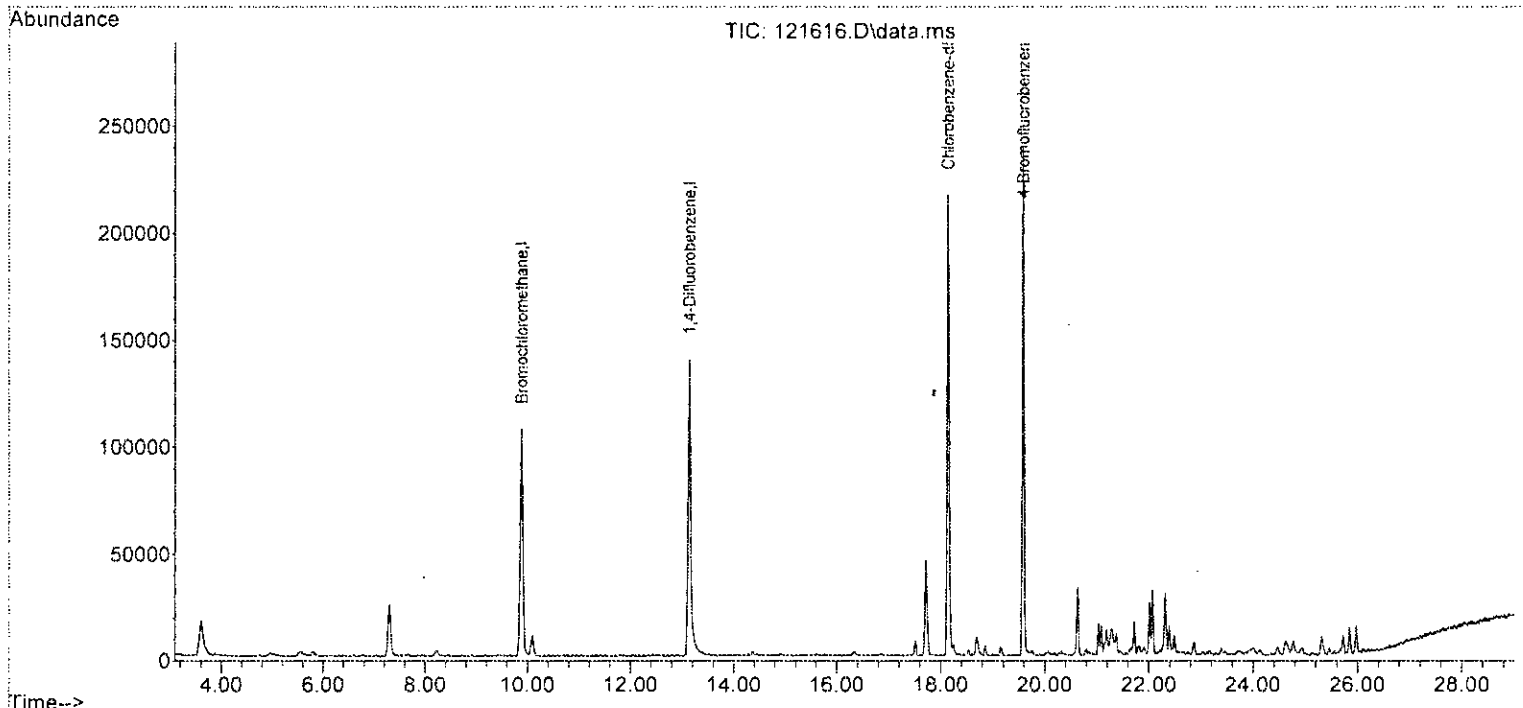
Quant Time: Dec 18 15:28:37 2022  
 Quant Method.: D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D.	
43) Methyl methacrylate	0.00		0		N.D. d	
44) Heptane	0.00		0		N.D.	
45) Bromodichloromethane	0.00		0		N.D. d	
46) Trichloroethene	0.00		0		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	0.00		0		N.D. d	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	0.00		0		N.D. d	
53) Tetrachloroethene	17.52	164	2009m	0.209	ppbv	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	0.00		0		N.D. d	
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D. d	
60) Nonane	0.00		0		N.D. d	
61) Isopropylbenzene	0.00		0		N.D. d	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D. d	
64) 4-Ethyltoluene	0.00		0		N.D. d	
65) m,p-Xylene	0.00		0		N.D. d	
66) o-Xylene	0.00		0		N.D. d	
67) Styrene	0.00		0		N.D. d	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D. d	
71) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
72) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
73) 1,3-Dichlorobenzene	0.00		0		N.D.	
74) 1,4-Dichlorobenzene	0.00		0		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77) Naphthalene	0.00		0		N.D. d	
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121616.D  
 Acq On : 17 Dec 2022 12:55 am  
 Operator : bat  
 Sample : 212177-01 1/5.0  
 Misc : T6  
 ALS Vial : 16 Sample Multiplier: 1  
 InstName : GCMS7

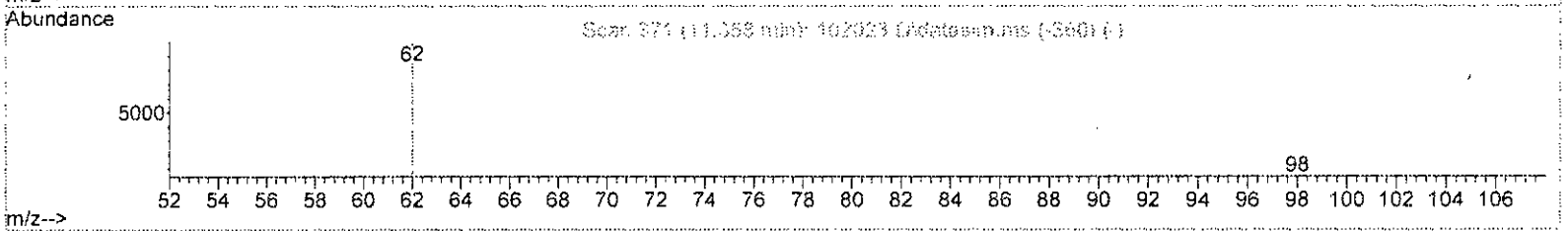
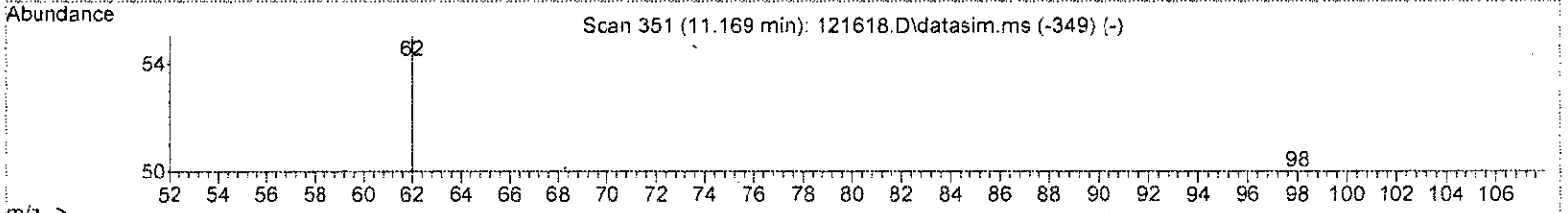
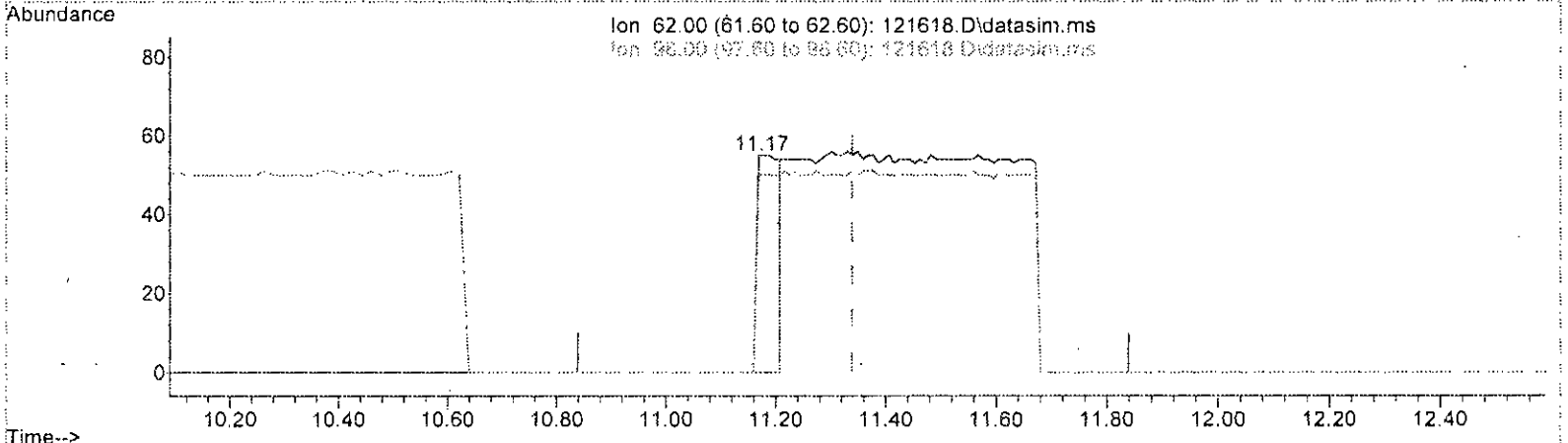
Quant Time: Dec 18 15:28:37 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121618.D  
 Acq On : 17 Dec 2022 2:05 am  
 Operator : bat  
 Sample : 212177-02 1/56  
 Misc : T8  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:43 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update: Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



TIC: 121618.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.169min (-0.170) 0.008 ppbv

response	155	-
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	90.91#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121618.D  
 Acq On : 17 Dec 2022 2:05 am  
 Operator : bat  
 Sample : 212177-02 1/56  
 Misc : T8  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:43 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

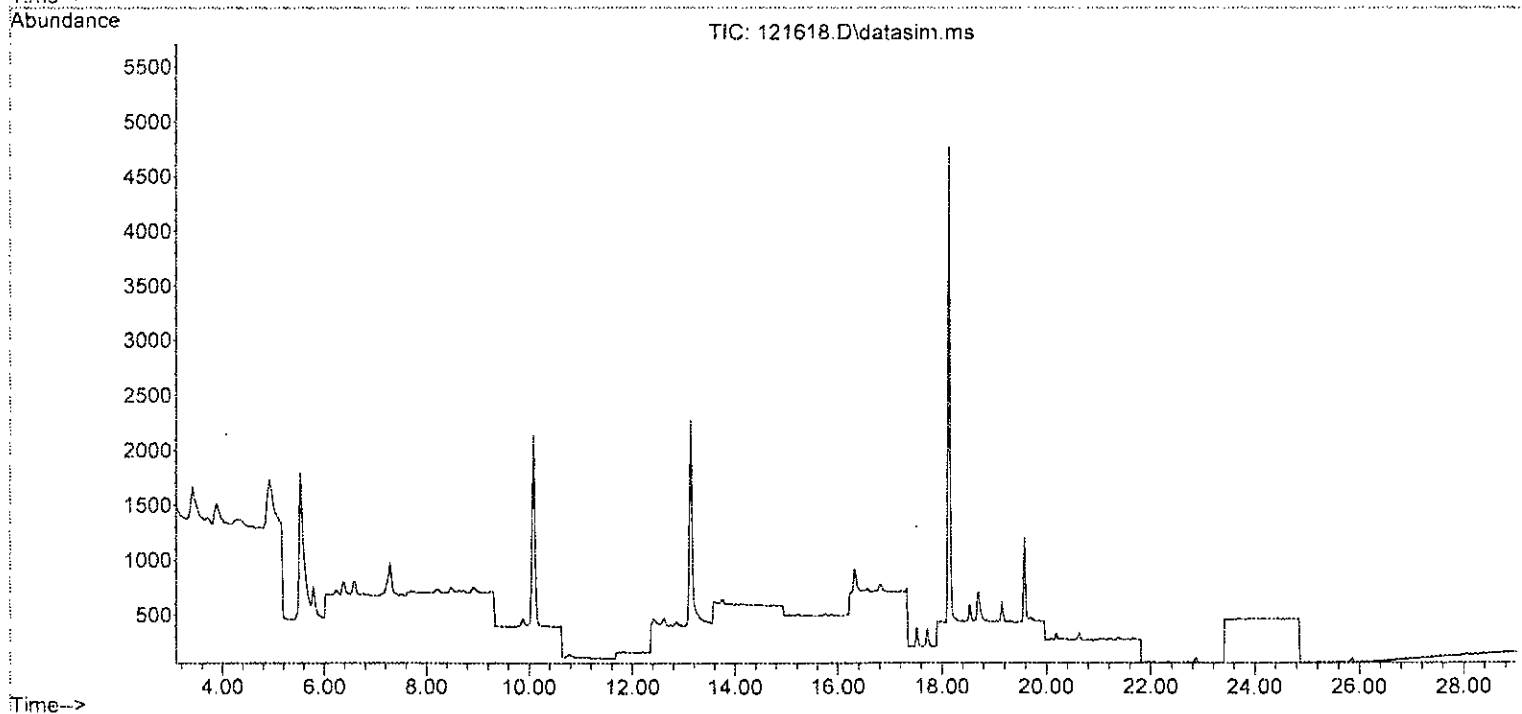
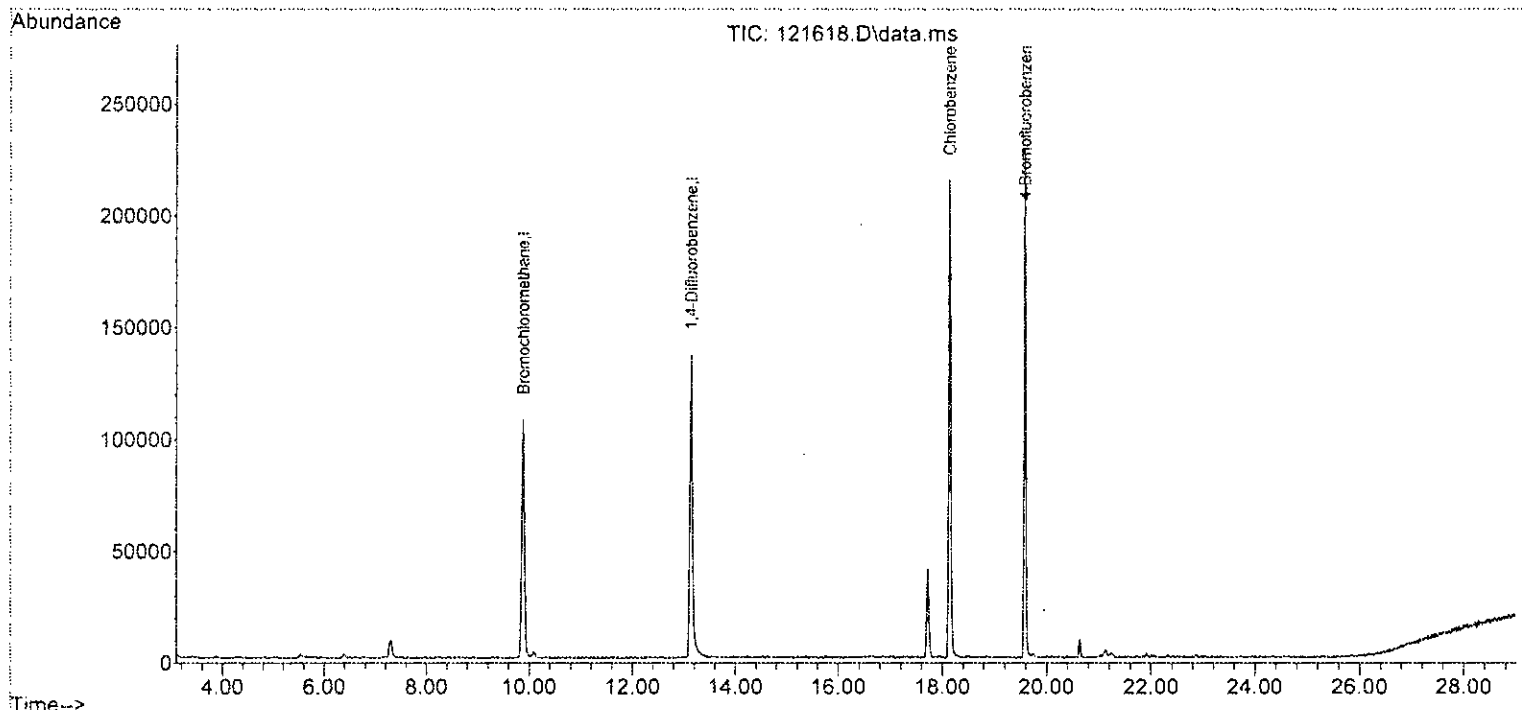
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	51670	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	196572	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	182484	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	108092	8.547	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	85.50%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121618.D  
Acq On : 17 Dec 2022 2:05 am  
Operator : bat  
Sample : 212177-02 1/56  
Misc : T8  
ALS Vial : 18 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Dec 18 15:28:43 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
Qlast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121618.D  
 Acq On : 17 Dec 2022 2:05 am  
 Operator : bat  
 Sample : 212177-02 1/56  
 Misc : T8  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:43 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	51670	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	196572	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	182484	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	108092	8.547	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	85.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0	N.D.	d	
3) Dichlorodifluoromethane	0.00		0	N.D.		
4) Chloromethane	0.00		0	N.D.	d	
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) 1,3-Butadiene	0.00		0	N.D.		
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.		
12) Ethanol	0.00		0	N.D.	d	
13) Acrolein	0.00		0	N.D.		
14) Pentane	0.00		0	N.D.		
15) Trichlorofluoromethane	0.00		0	N.D.		
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	0.00		0	N.D.	d	
18) 1,1-Dichloroethene	0.00		0	N.D.		
19) trans-1,2-Dichloroethene	0.00		0	N.D.		
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.		
22) 3-Chloropropene	0.00		0	N.D.		
23) CFC-113	0.00		0	N.D.		
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	0.00		0	N.D.		
26) Vinyl acetate	0.00		0	N.D.		
27) 1,1-Dichloroethane	0.00		0	N.D.		
28) cis-1,2-Dichloroethene	9.87	96	240	N.D.		
29) Hexane	0.00		0	N.D.		
30) Chloroform	0.00		0	N.D.	d	
31) Ethyl acetate	0.00		0	N.D.		
32) Tetrahydrofuran	0.00		0	N.D.		
33) 2-Butanone (MEK)	0.00		0	N.D.		
34) 1,2-Dichloroethane (EDC)	0.00		0	N.D.	d	
35) 1,1,1-Trichloroethane	11.71	97	307	N.D.		
36) Carbon tetrachloride	0.00		0	N.D.		
37) Benzene	0.00		0	N.D.	d	
38) Cyclohexane	0.00		0	N.D.	d	
40) 1,2-Dichloropropane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121618.D  
 Acq On : 17 Dec 2022 2:05 am  
 Operator : bat  
 Sample : 212177-02 1/56  
 Misc : T8  
 ALS Vial : 18 Sample Multiplier: 1  
 InstName : GCMS7

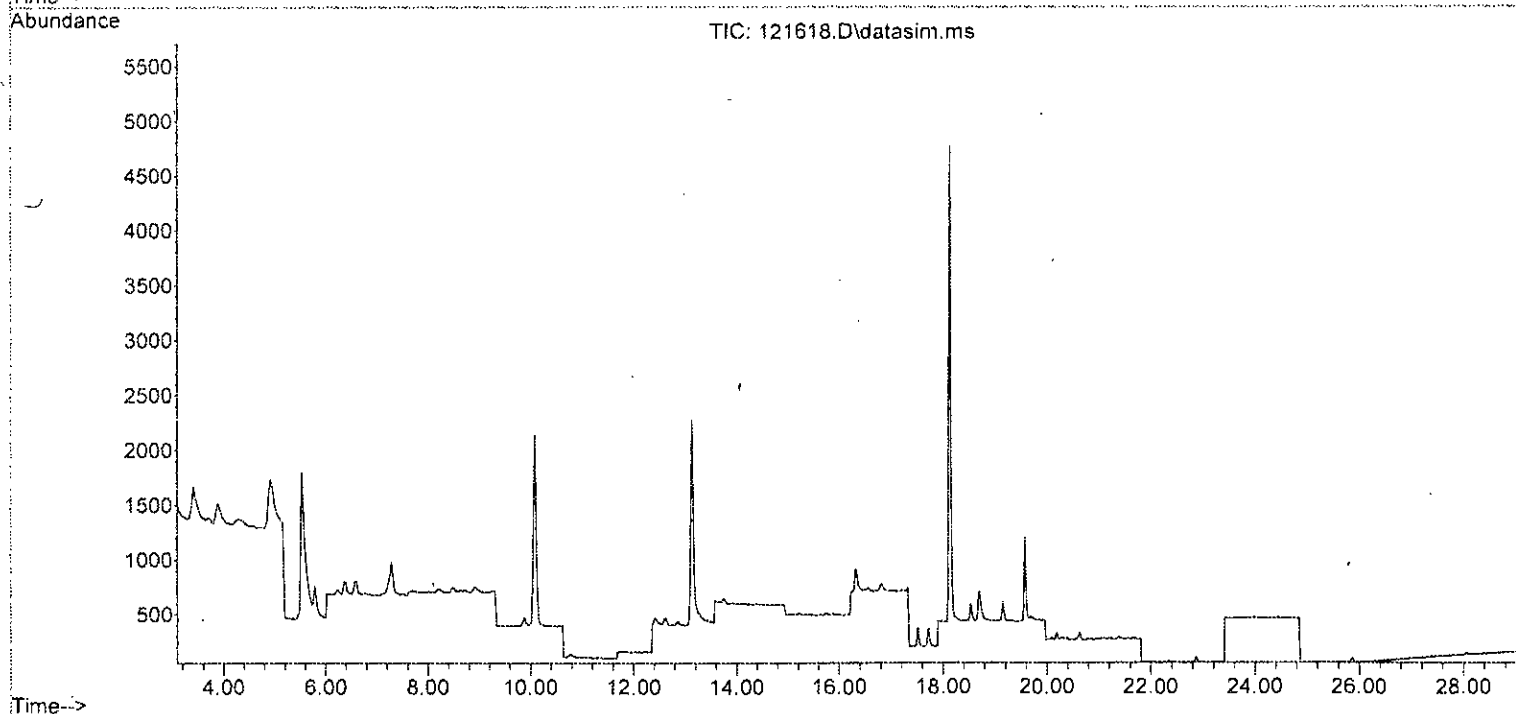
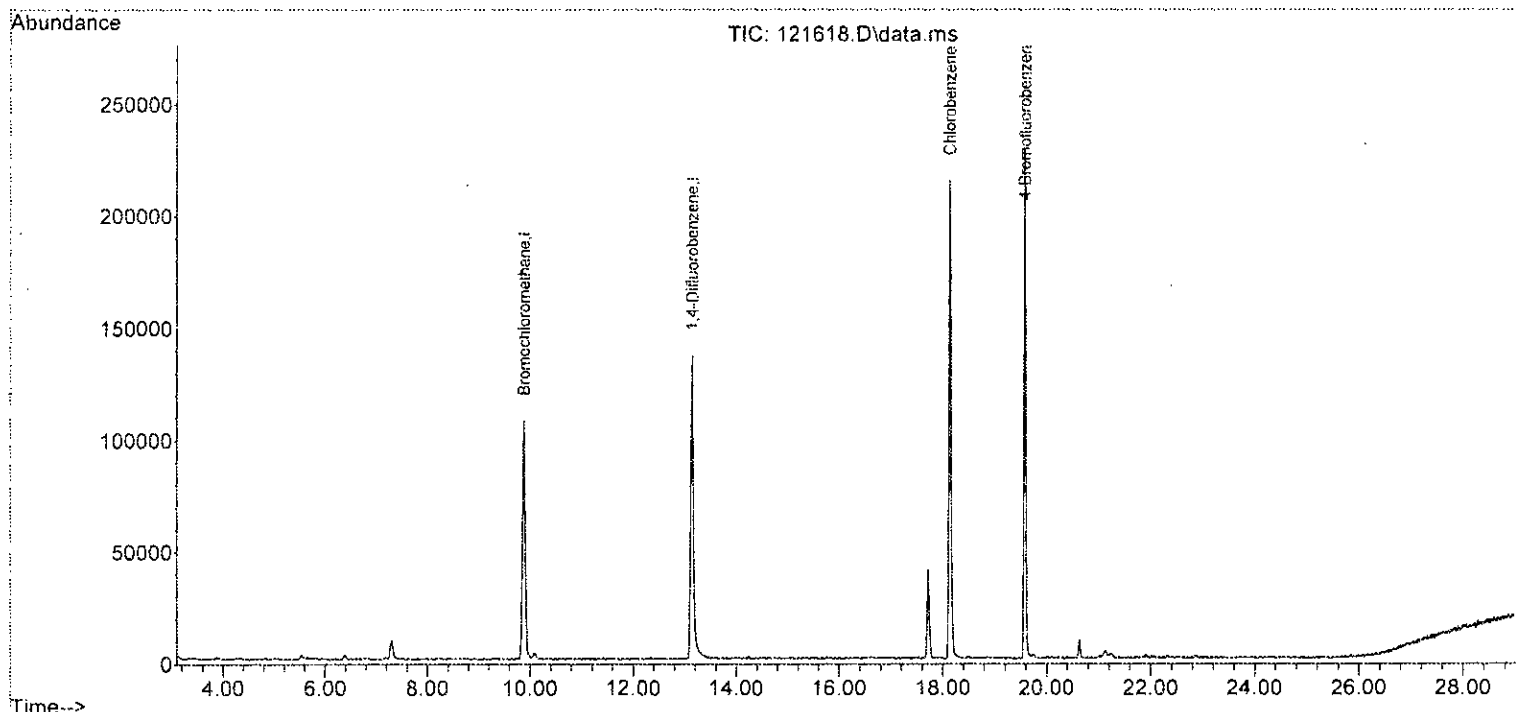
Quant Time: Dec 18 15:28:43 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D.	
43) Methyl methacrylate	0.00		0		N.D.	
44) Heptane	0.00		0		N.D.	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	0.00		0		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	0.00		0		N.D. d	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	0.00		0		N.D.	
53) Tetrachloroethene	17.35	164	273		N.D.	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	0.00		0		N.D. d	
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
60) Nonane	0.00		0		N.D. d	
61) Isopropylbenzene	0.00		0		N.D.	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D.	
64) 4-Ethyltoluene	0.00		0		N.D. d	
65) m,p-Xylene	0.00		0		N.D. d	
66) o-Xylene	0.00		0		N.D. d	
67) Styrene	0.00		0		N.D.	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D.	
71) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
72) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
73) 1,3-Dichlorobenzene	0.00		0		N.D.	
74) 1,4-Dichlorobenzene	0.00		0		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77) Naphthalene	0.00		0		N.D. d	
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121618.D  
Acq On : 17 Dec 2022 2:05 am  
Operator : bat  
Sample : 212177-02 1/56  
Misc : T8  
ALS Vial : 18 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Dec 18 15:28:43 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
Qlast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M

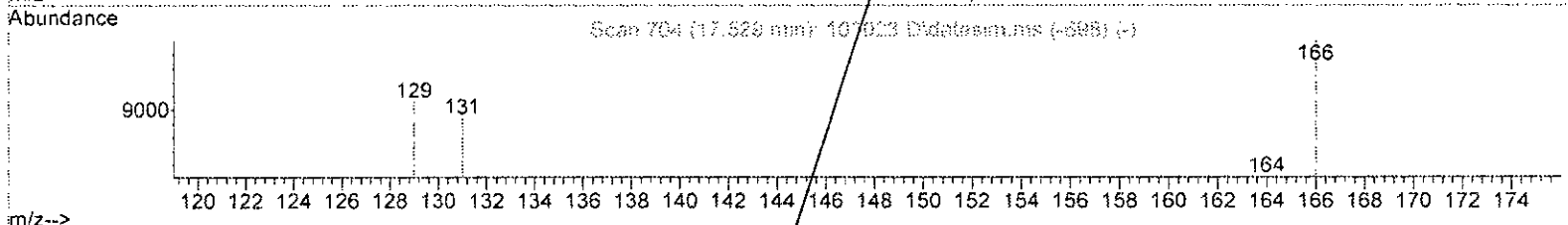
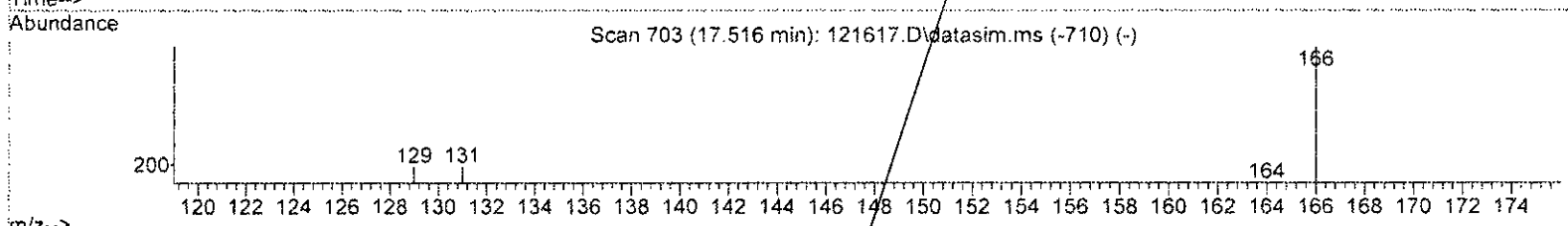
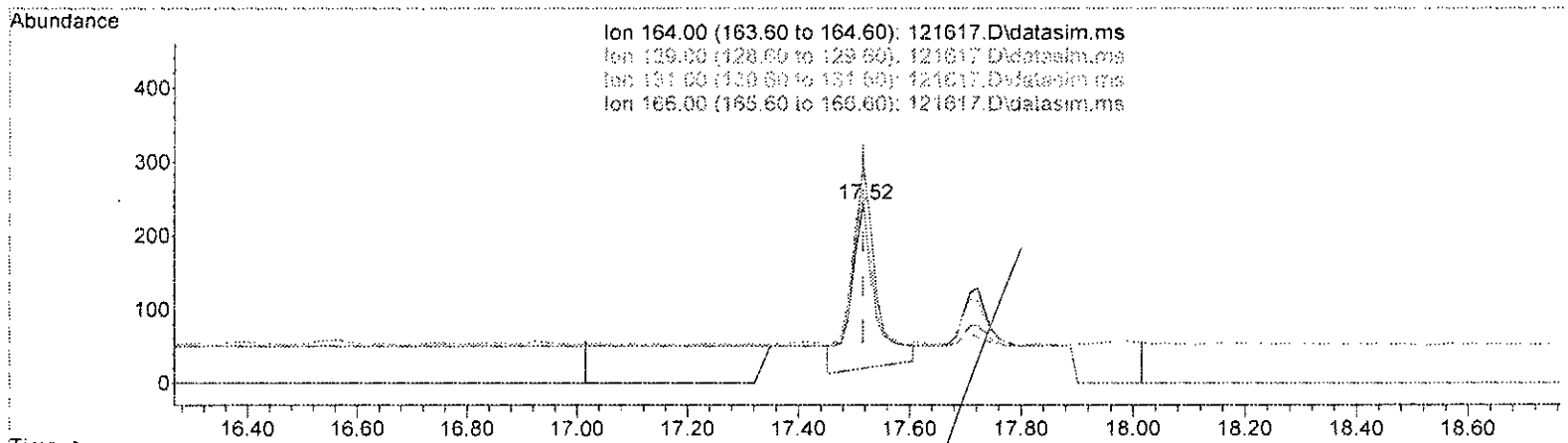




Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121617.D  
 Acq On : 17 Dec 2022 1:30 am  
 Operator : bat  
 Sample : 212177-03 1/11  
 Misc : T7  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:40 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 5S method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121617.D\data.ms

(53) Tetrachloroethene (TMP)  
 17.516min (-0.000) 0.072 ppbv  
 response 697

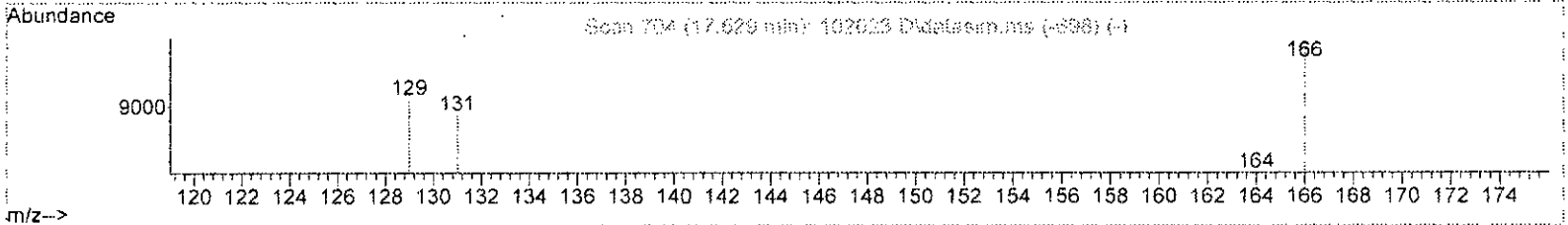
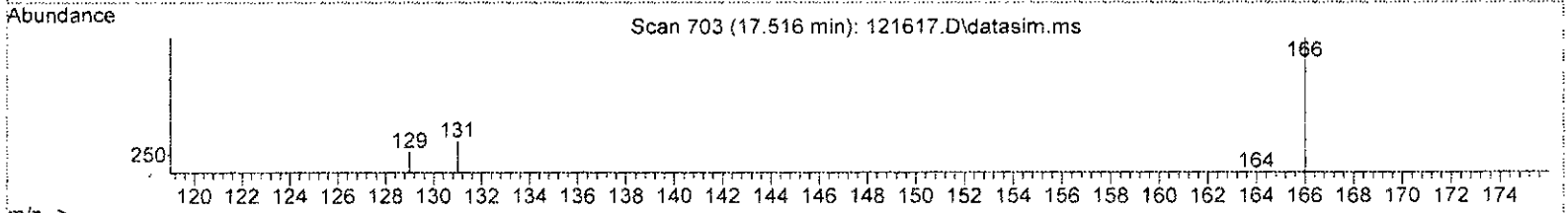
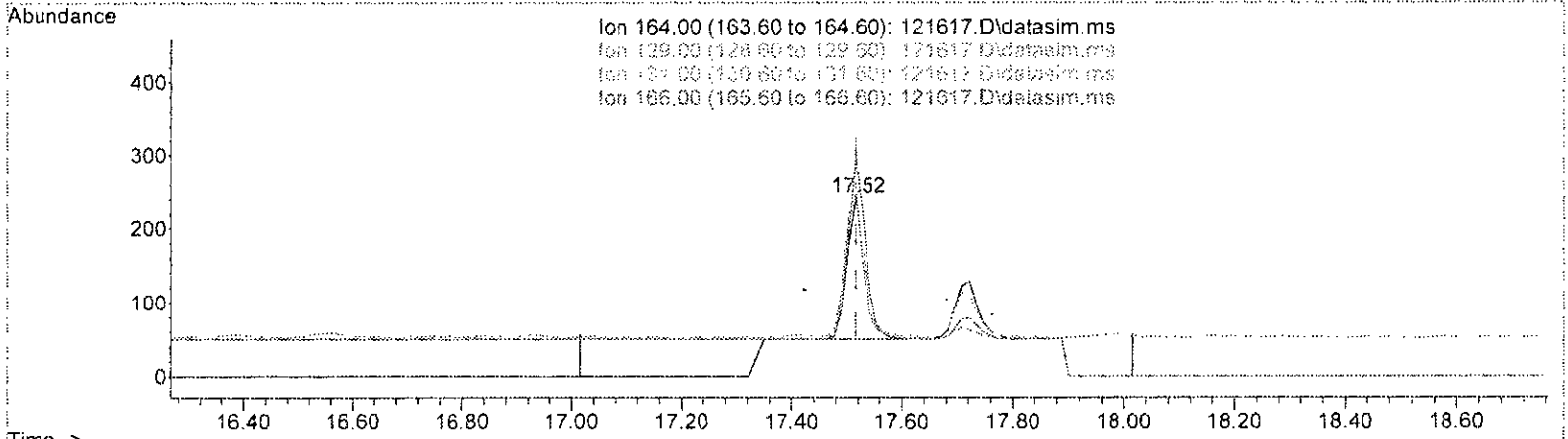
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	103.63
131.00	100.70	104.15
166.00	137.50	126.94

*by calibration*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121617.D  
 Acq On : 17 Dec 2022 1:30 am  
 Operator : bat  
 Sample : 212177-03 1/11  
 Misc : T7  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:40 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121617.D\data.ms

(53) Tetrachloroethene (TMP)

17.516min (-0.000) 0.045 ppbv m

response 433

Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	103.29
131.00	100.70	104.94
166.00	137.50	121.81

*Handwritten signature: b. lalalw*

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121617.D  
 Acq On : 17 Dec 2022 1:30 am  
 Operator : bat  
 Sample : 212177-03 1/11  
 Misc : T7  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:40 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

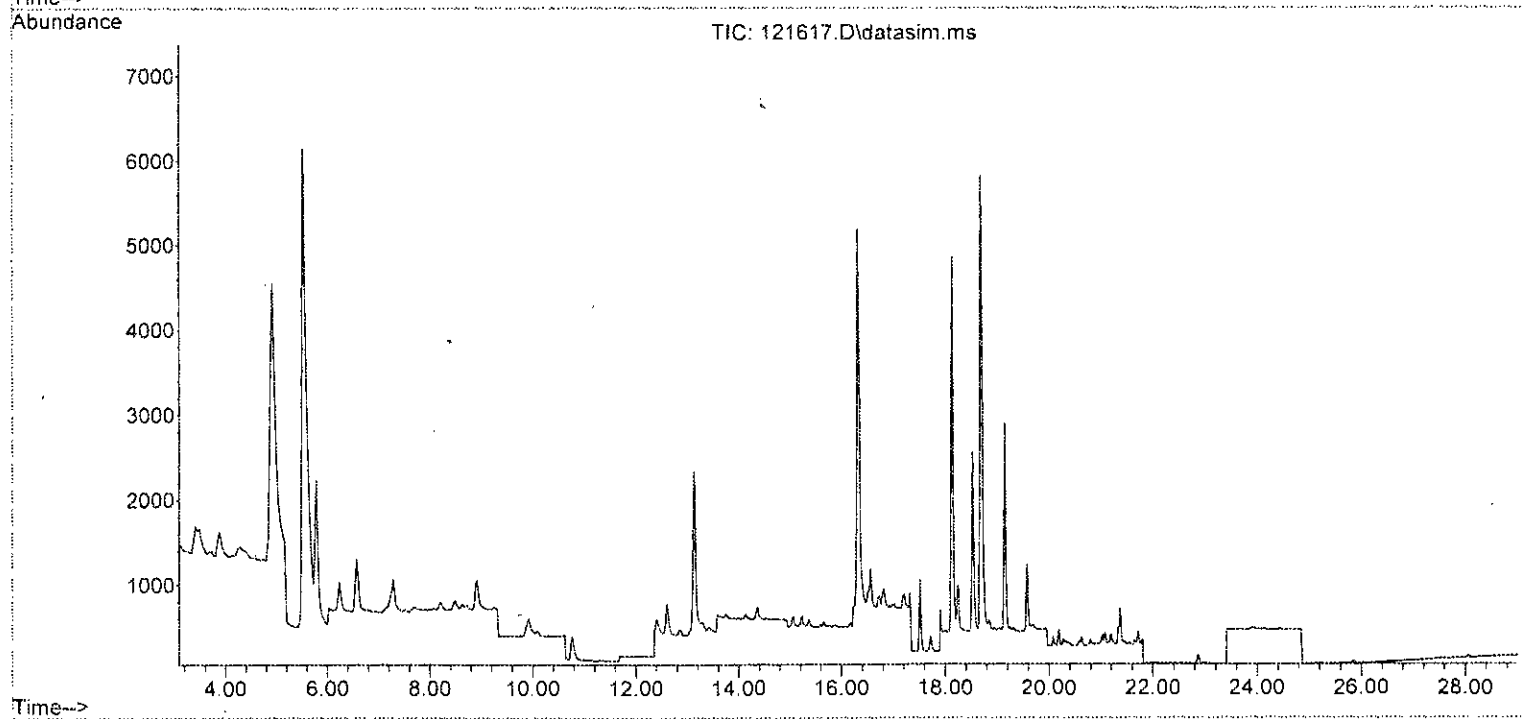
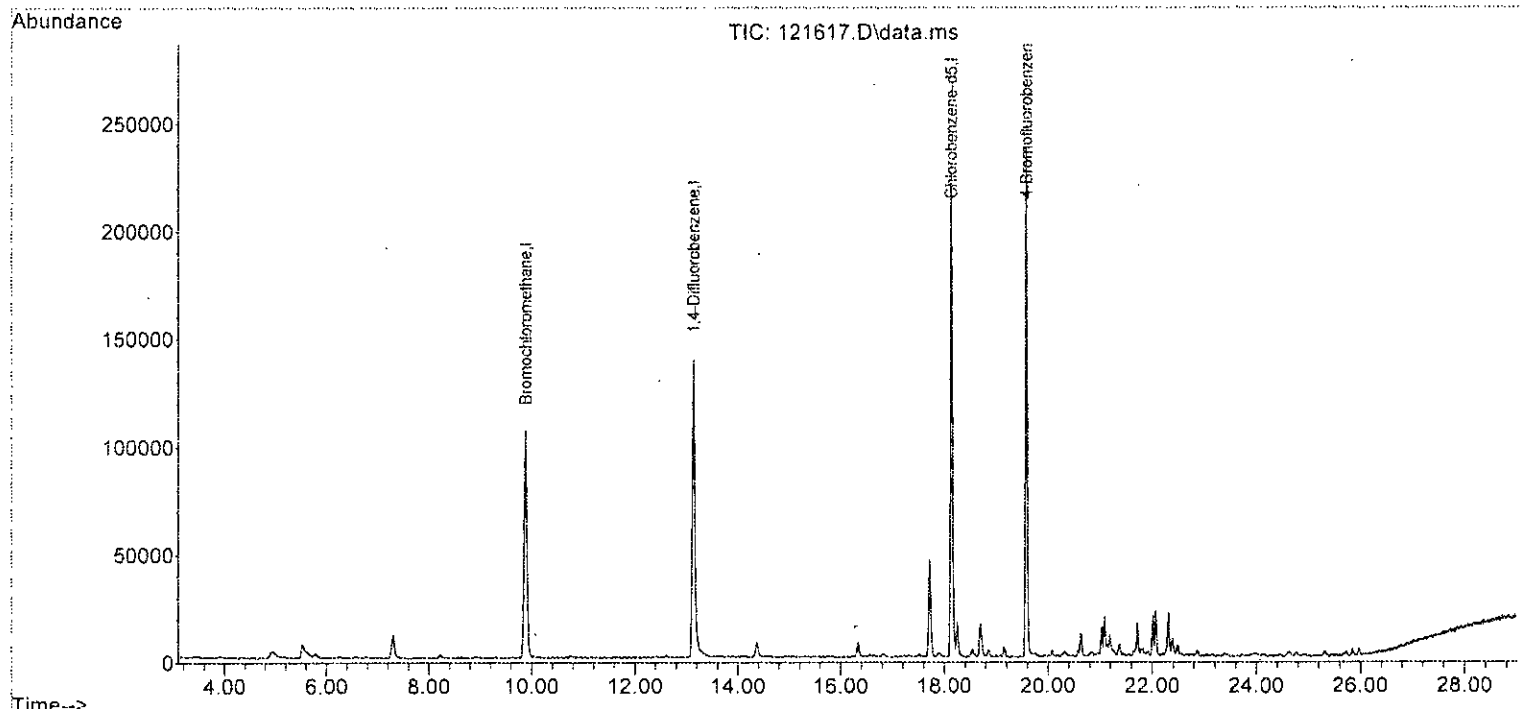
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.88	128	50105	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	198061	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	178253	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	108278	8.765	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	87.70%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121617.D  
 Acq On : 17 Dec 2022 1:30 am  
 Operator : bat  
 Sample : 212177-03 1/11  
 Misc : T7  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:40 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO1SDC.M



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121617.D  
 Acq On : 17 Dec 2022 1:30 am  
 Operator : bat  
 Sample : 212177-03 1/11  
 Misc : T7  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:40 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.88	128	50105	10.000	ppbv	0.00
39) 1,4-Difluorobenzene	13.14	114	198061	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	178253	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	108278	8.765	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	87.70%

Target Compounds				Qvalue
2) Propene	0.00		0	N.D. d
3) Dichlorodifluoromethane	0.00		0	N.D. d
4) Chloromethane	0.00		0	N.D. d
5) F-114	0.00		0	N.D.
6) Vinyl chloride	0.00		0	N.D.
7) 1,3-Butadiene	0.00		0	N.D.
8) Butane	0.00		0	N.D. d
9) Bromomethane	0.00		0	N.D.
10) Chloroethane	0.00		0	N.D.
11) Vinyl bromide	0.00		0	N.D. d
12) Ethanol	0.00		0	N.D. d
13) Acrolein	0.00		0	N.D.
14) Pentane	0.00		0	N.D. d
15) Trichlorofluoromethane	0.00		0	N.D.
16) Acetone	0.00		0	N.D. d
17) 2-Propanol	0.00		0	N.D. d
18) 1,1-Dichloroethene	0.00		0	N.D.
19) trans-1,2-Dichloroethene	0.00		0	N.D.
20) Methylene chloride	0.00		0	N.D. d
21) t-Butyl alcohol (TBA)	0.00		0	N.D. d
22) 3-Chloropropene	0.00		0	N.D.
23) CFC-113	0.00		0	N.D.
24) Carbon disulfide	0.00		0	N.D. d
25) Methyl t-butyl ether (...)	0.00		0	N.D.
26) Vinyl acetate	0.00		0	N.D. d
27) 1,1-Dichloroethane	0.00		0	N.D.
28) cis-1,2-Dichloroethene	9.87	96	254	N.D.
29) Hexane	0.00		0	N.D.
30) Chloroform	0.00		0	N.D. d
31) Ethyl acetate	0.00		0	N.D. d
32) Tetrahydrofuran	0.00		0	N.D. d
33) 2-Butanone (MEK)	0.00		0	N.D. d
34) 1,2-Dichloroethane (EDC)	0.00		0	N.D.
35) 1,1,1-Trichloroethane	0.00		0	N.D.
36) Carbon tetrachloride	0.00		0	N.D. d
37) Benzene	0.00		0	N.D. d
38) Cyclohexane	0.00		0	N.D. d
40) 1,2-Dichloropropane	0.00		0	N.D. d

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121617.D  
 Acq On : 17 Dec 2022 1:30 am  
 Operator : bat  
 Sample : 212177-03 1/11  
 Misc : T7  
 ALS Vial : 17 Sample Multiplier: 1  
 InstName : GCMS7

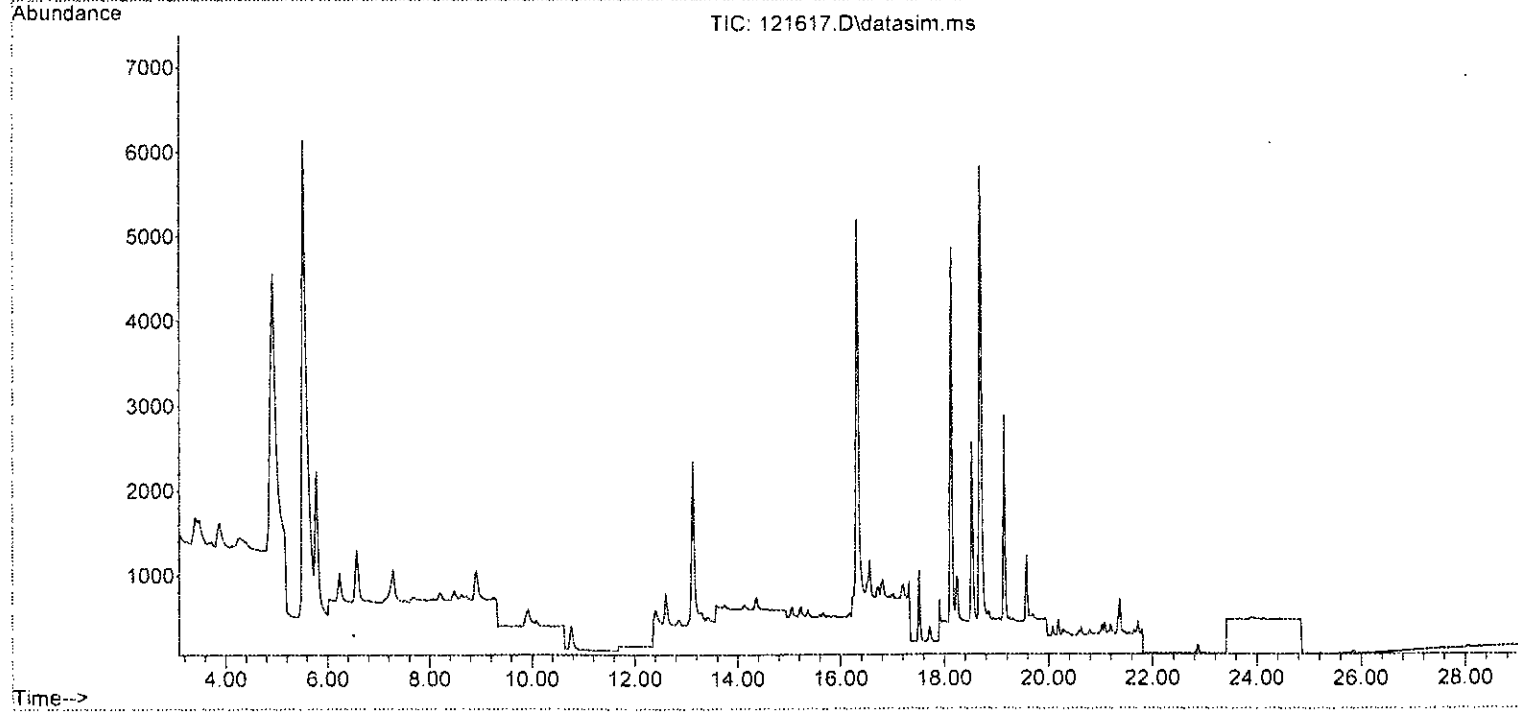
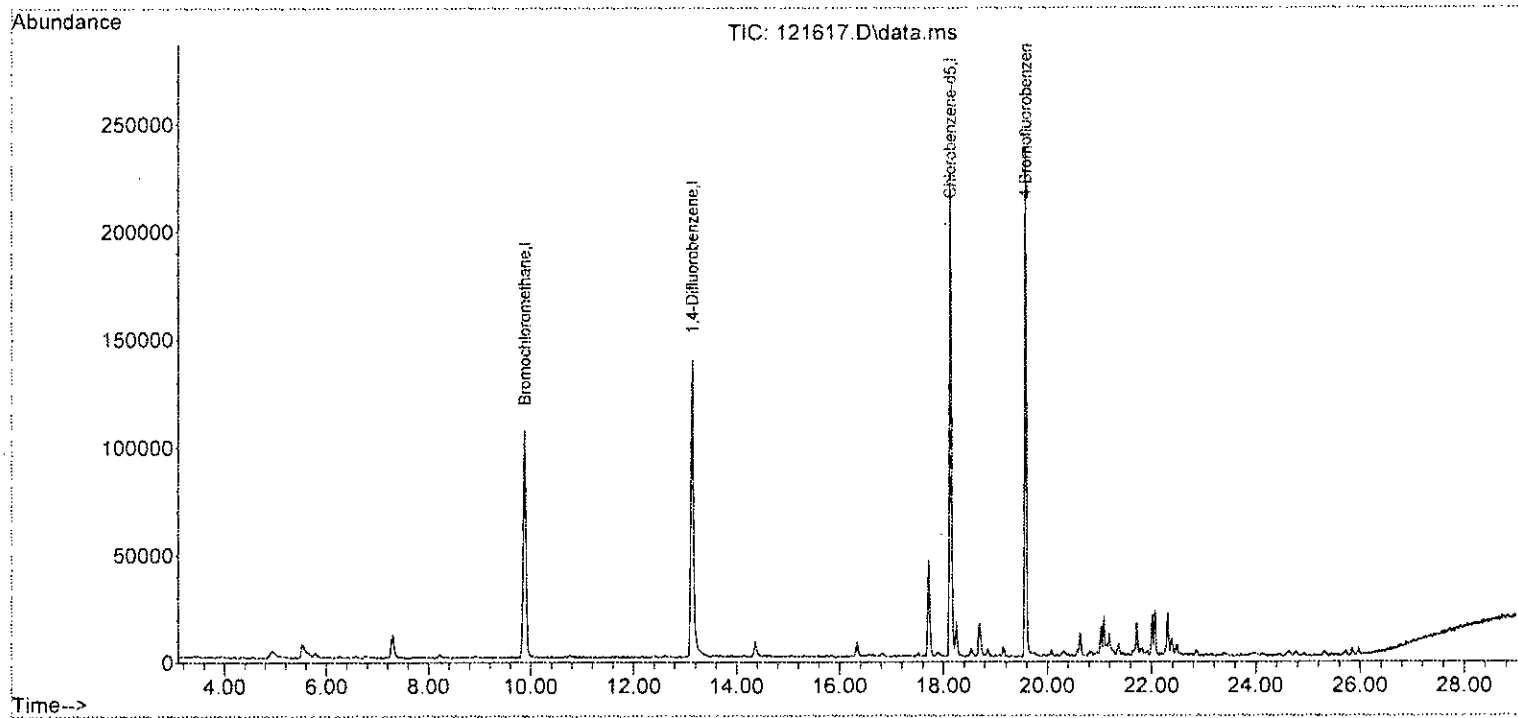
Quant Time: Dec 18 15:28:40 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D.	
43) Methyl methacrylate	0.00		0		N.D. d	
44) Heptane	0.00		0		N.D. d	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	0.00		0		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	0.00		0		N.D. d	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	0.00		0		N.D. d	
53) Tetrachloroethene	17.52	164	433		N.D.	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	0.00		0		N.D. d	
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D. d	
60) Nonane	0.00		0		N.D. d	
61) Isopropylbenzene	0.00		0		N.D. d	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D. d	
64) 4-Ethyltoluene	0.00		0		N.D. d	
65) m,p-Xylene	0.00		0		N.D. d	
66) o-Xylene	0.00		0		N.D. d	
67) Styrene	0.00		0		N.D. d	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D. d	
71) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
72) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
73) 1,3-Dichlorobenzene	0.00		0		N.D.	
74) 1,4-Dichlorobenzene	0.00		0		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77) Naphthalene	0.00		0		N.D. d	
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121617.D  
Acq On : 17 Dec 2022 1:30 am  
Operator : bat  
Sample : 212177-03 1/11  
Misc : T7  
ALS Vial : 17 Sample Multiplier: 1  
InstName : GCMS7

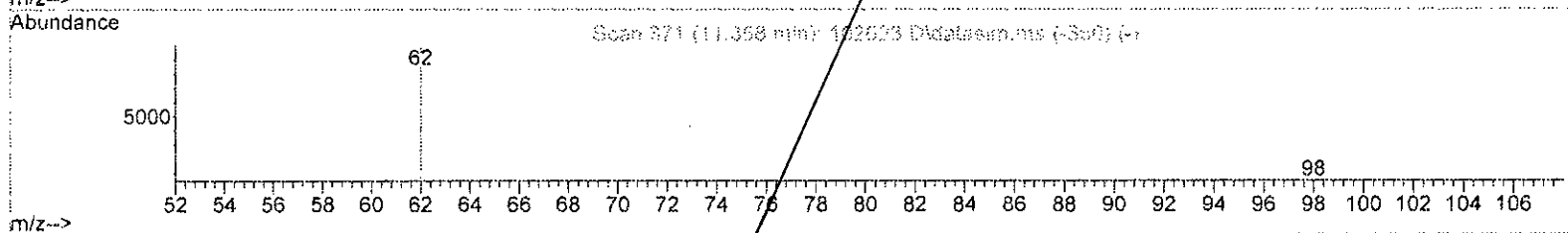
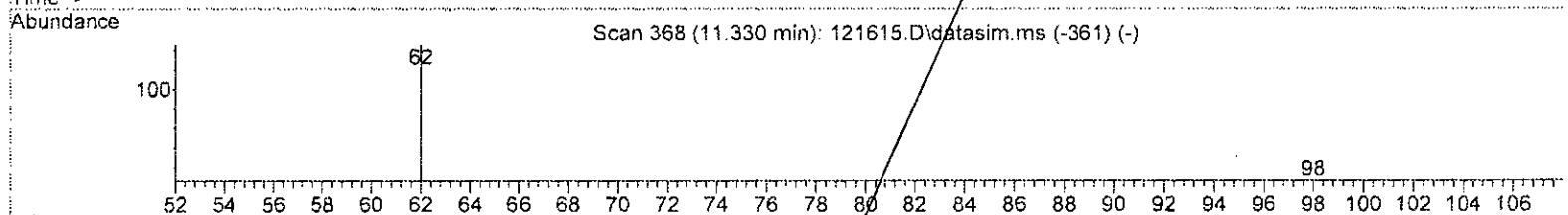
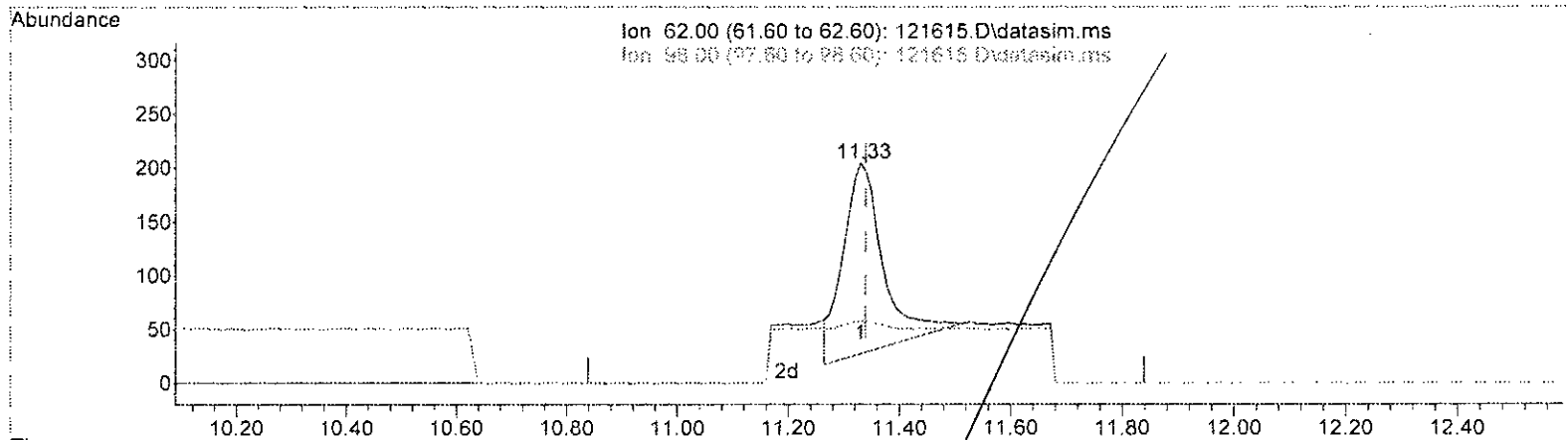
Quant Time: Dec 18 15:28:40 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 5S method  
Qlast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121615.D  
 Acq On : 17 Dec 2022 12:19 am  
 Operator : bat  
 Sample : 212177-04  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121615.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.330min (-0.009) 0.068 ppbv

response	887	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	4.03
0.00	0.00	0.00
0.00	0.00	0.00

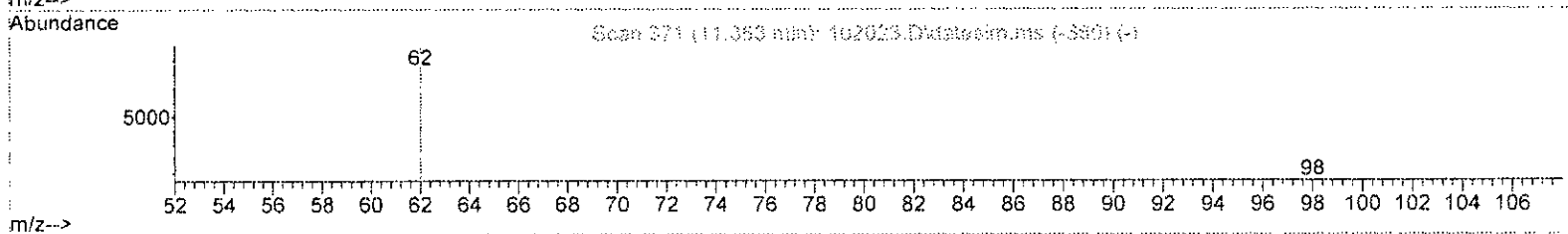
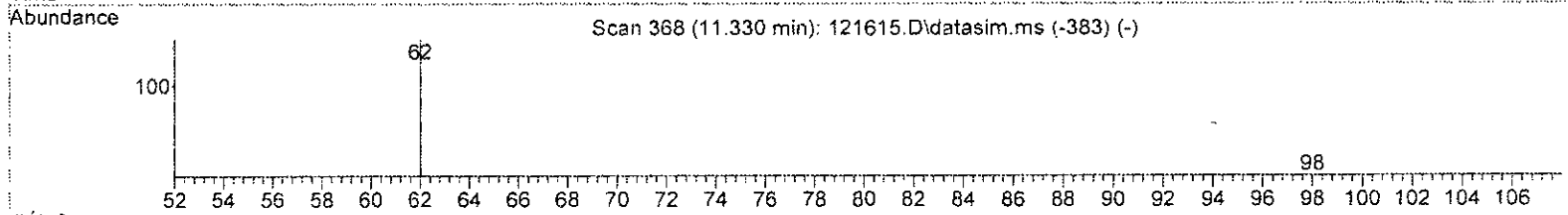
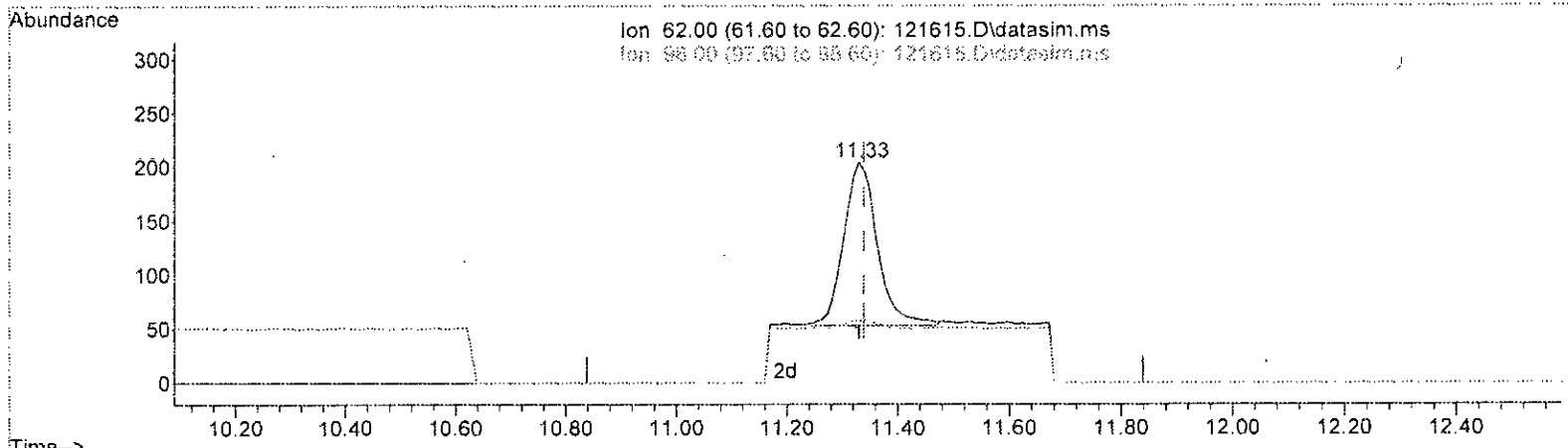
*Handwritten signature:* A / a / a / a



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121615.D  
 Acq On : 17 Dec 2022 12:19 am  
 Operator : bat  
 Sample : 212177-04  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121615.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.330min (-0.009) 0.047 ppbv m

response	635	
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	27.94
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121615.D  
 Acq On : 17 Dec 2022 12:19 am  
 Operator : bat  
 Sample : 212177-04  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

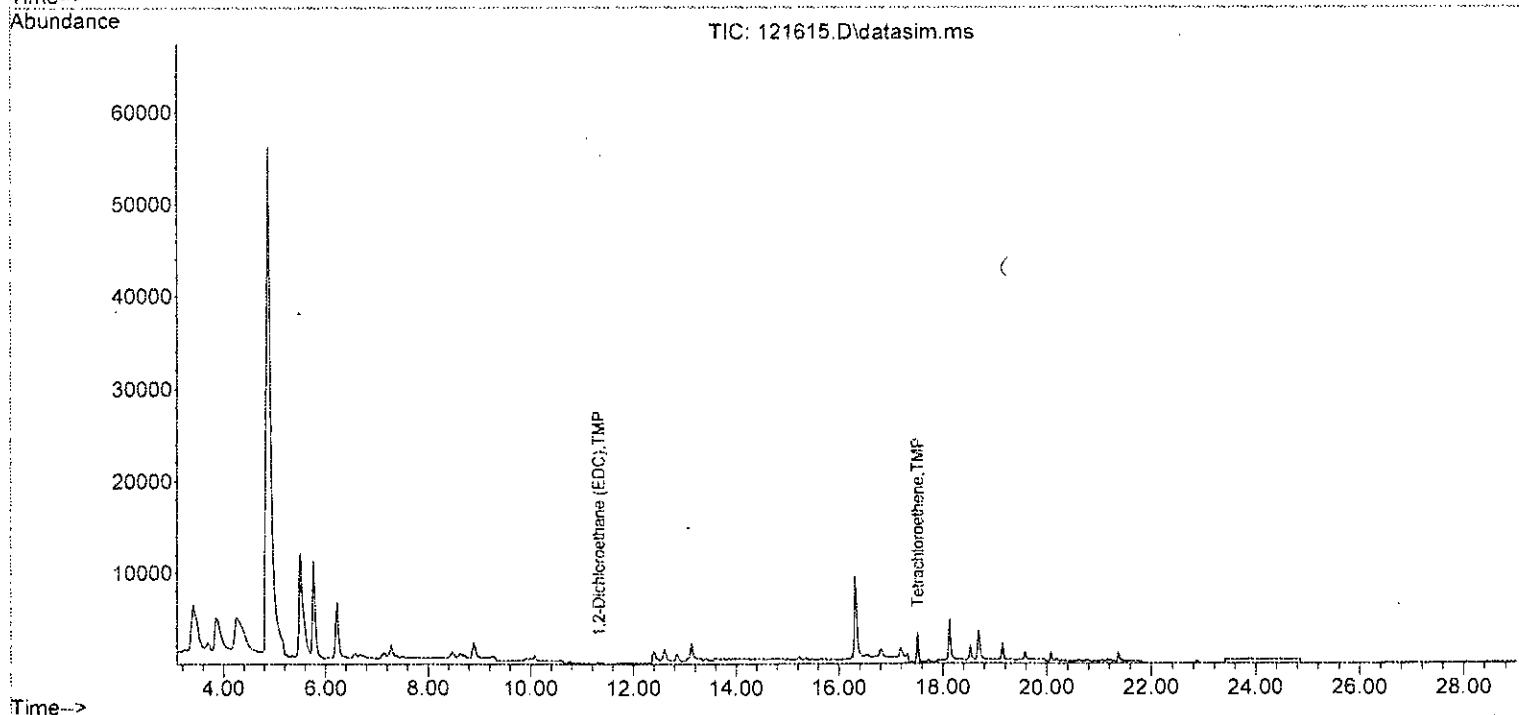
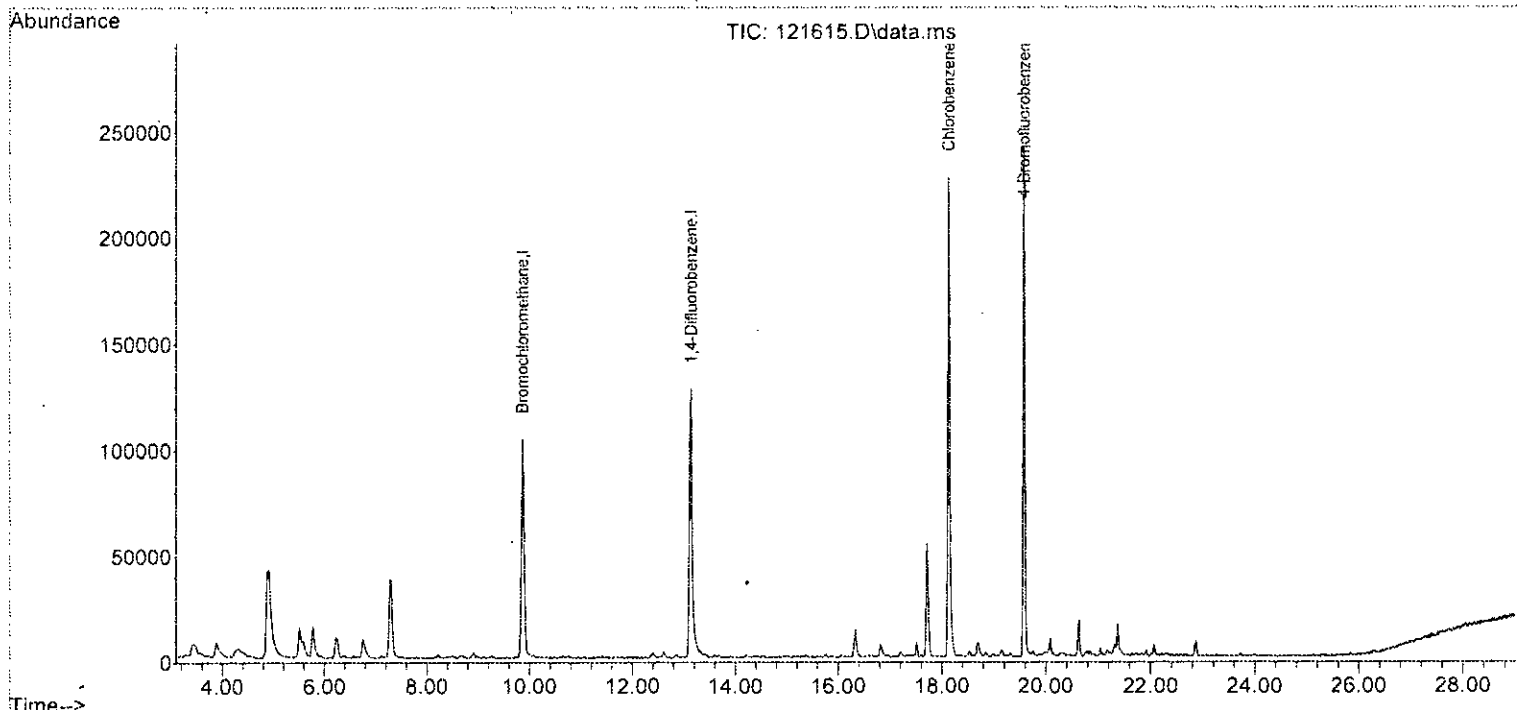
Quant Time: Dec 18 15:28:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

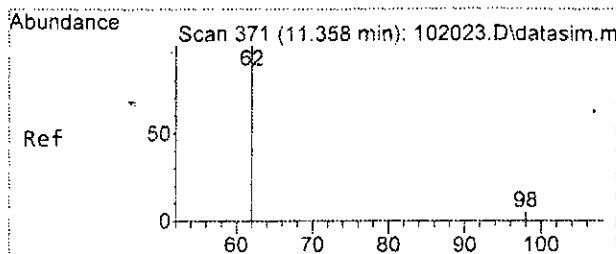
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Bromochloromethane	9.86	128	47825	10.000	ppbv	-0.02	
39) 1,4-Difluorobenzene	13.14	114	187147	10.000	ppbv	0.00	
56) Chlorobenzene-d5	18.13	117	183230	10.000	ppbv	0.00	
System Monitoring Compounds							
69) 4-Bromofluorobenzene	19.58	95	106611	8.396	ppbv	0.00	
Spiked Amount	10.000	Range	70 - 130	Recovery	=	84.00%	
Target Compounds							
34] 1,2-Dichloroethane (EDC)	11.33	62	635m	0.047	ppbv		Qvalue
53] Tetrachloroethene	17.52	164	1585	0.173	ppbv		93
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121615.D  
Acq On : 17 Dec 2022 12:19 am  
Operator : bat  
Sample : 212177-04  
Misc : T5  
ALS Vial : 15 Sample Multiplier: 1  
InstName : GCMS7

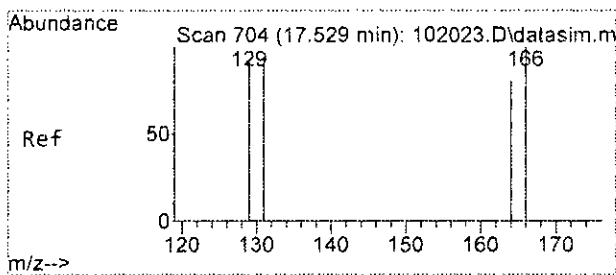
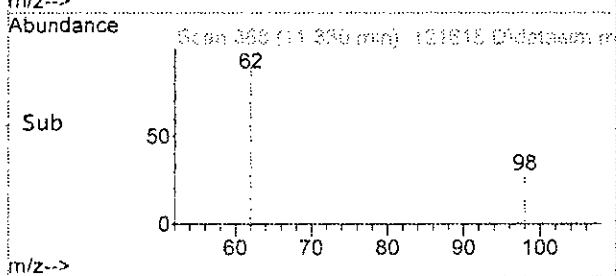
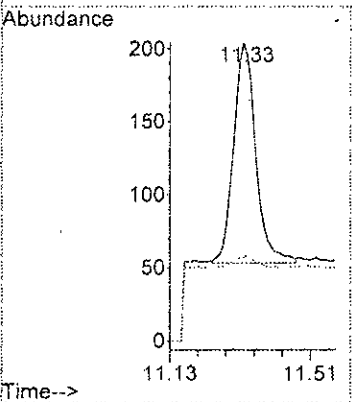
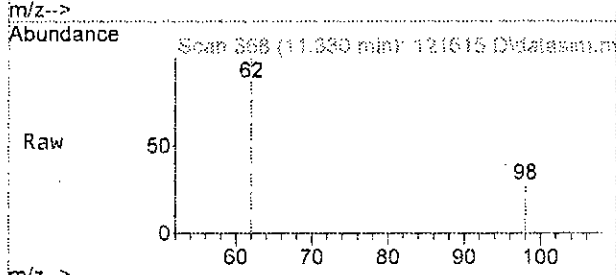
Quant Time: Dec 18 15:28:34 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M





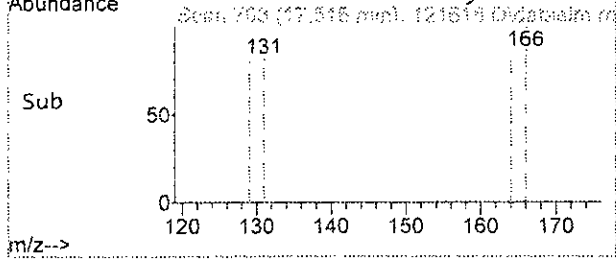
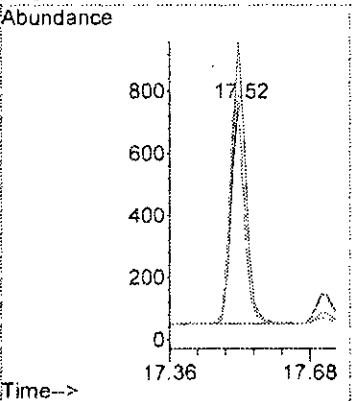
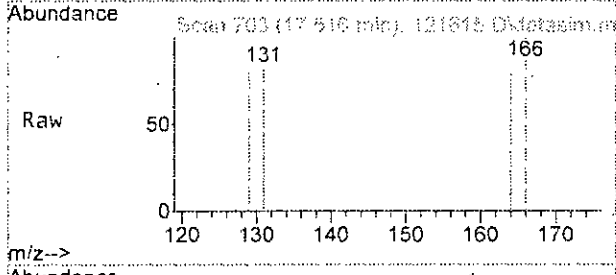
#34  
 1,2-Dichloroethane (EDC)  
 Concen: 0.047 ppbv m  
 RT: 11.33 min Scan# 368  
 Delta R.T. -0.009 min  
 Lab File: 121615.D  
 Acq: 17 Dec 2022 12:19 am

Tgt Ion: 62 Resp: 635  
 Ion Ratio Lower Upper  
 62 100  
 98 27.9 0.0 35.3



#53  
 Tetrachloroethene  
 Concen: 0.173 ppbv  
 RT: 17.52 min Scan# 703  
 Delta R.T. 0.000 min  
 Lab File: 121615.D  
 Acq: 17 Dec 2022 12:19 am

Tgt Ion: 164 Resp: 1585  
 Ion Ratio Lower Upper  
 164 100  
 129 102.7 63.2 123.2  
 131 105.4 70.7 130.7  
 166 128.3 107.5 167.5



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121615.D  
 Acq On : 17 Dec 2022 12:19 am  
 Operator : bat  
 Sample : 212177-04  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	47825	10.000	ppbv	-0.02
39) 1,4-Difluorobenzene	13.14	114	187147	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	183230	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	106611	8.396	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	84.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0	N.D.	d	
3) Dichlorodifluoromethane	0.00		0	N.D.	d	
4) Chloromethane	0.00		0	N.D.	d	
5) F-114	0.00		0	N.D.		
6) Vinyl chloride	0.00		0	N.D.		
7) 1,3-Butadiene	0.00		0	N.D.	d	
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	0.00		0	N.D.		
10) Chloroethane	0.00		0	N.D.		
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	0.00		0	N.D.	d	
13) Acrolein	0.00		0	N.D.	d	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	0.00		0	N.D.	d	
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	0.00		0	N.D.	d	
18) 1,1-Dichloroethene	0.00		0	N.D.		
19) trans-1,2-Dichloroethene	0.00		0	N.D.		
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	0.00		0	N.D.	d	
23) CFC-113	0.00		0	N.D.	d	
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	0.00		0	N.D.		
26) Vinyl acetate	0.00		0	N.D.	d	
27) 1,1-Dichloroethane	0.00		0	N.D.		
28) cis-1,2-Dichloroethene	0.00		0	N.D.		
29) Hexane	0.00		0	N.D.	d	
30) Chloroform	0.00		0	N.D.	d	
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	0.00		0	N.D.	d	
33) 2-Butanone (MEK)	0.00		0	N.D.	d	
34] 1,2-Dichloroethane (EDC)	11.33	62	635m	0.047	ppbv	
35) 1,1,1-Trichloroethane	0.00		0	N.D.		
36) Carbon tetrachloride	0.00		0	N.D.	d	
37) Benzene	0.00		0	N.D.	d	
38) Cyclohexane	0.00		0	N.D.	d	
40) 1,2-Dichloropropane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121615.D  
 Acq On : 17 Dec 2022 12:19 am  
 Operator : bat  
 Sample : 212177-04  
 Misc : T5  
 ALS Vial : 15 Sample Multiplier: 1  
 InstName : GCMS7

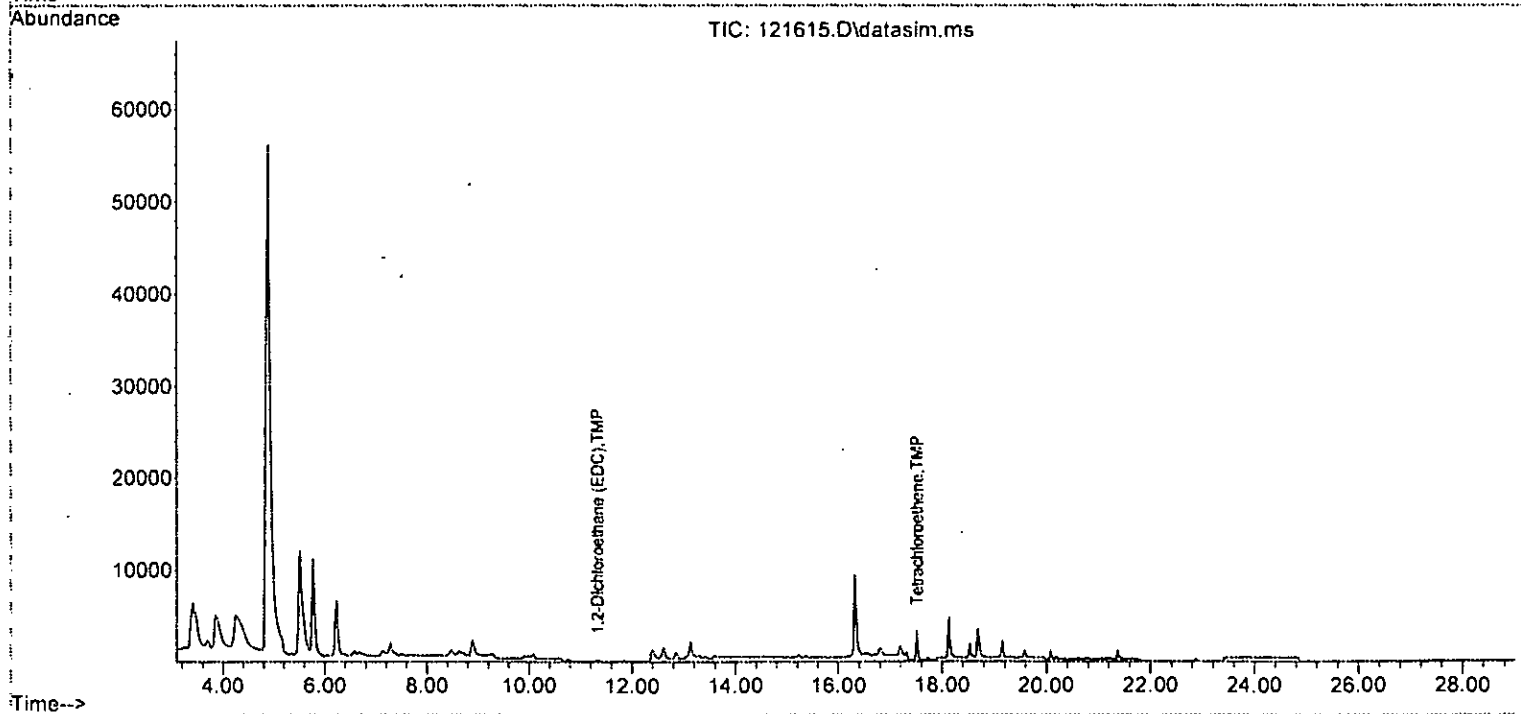
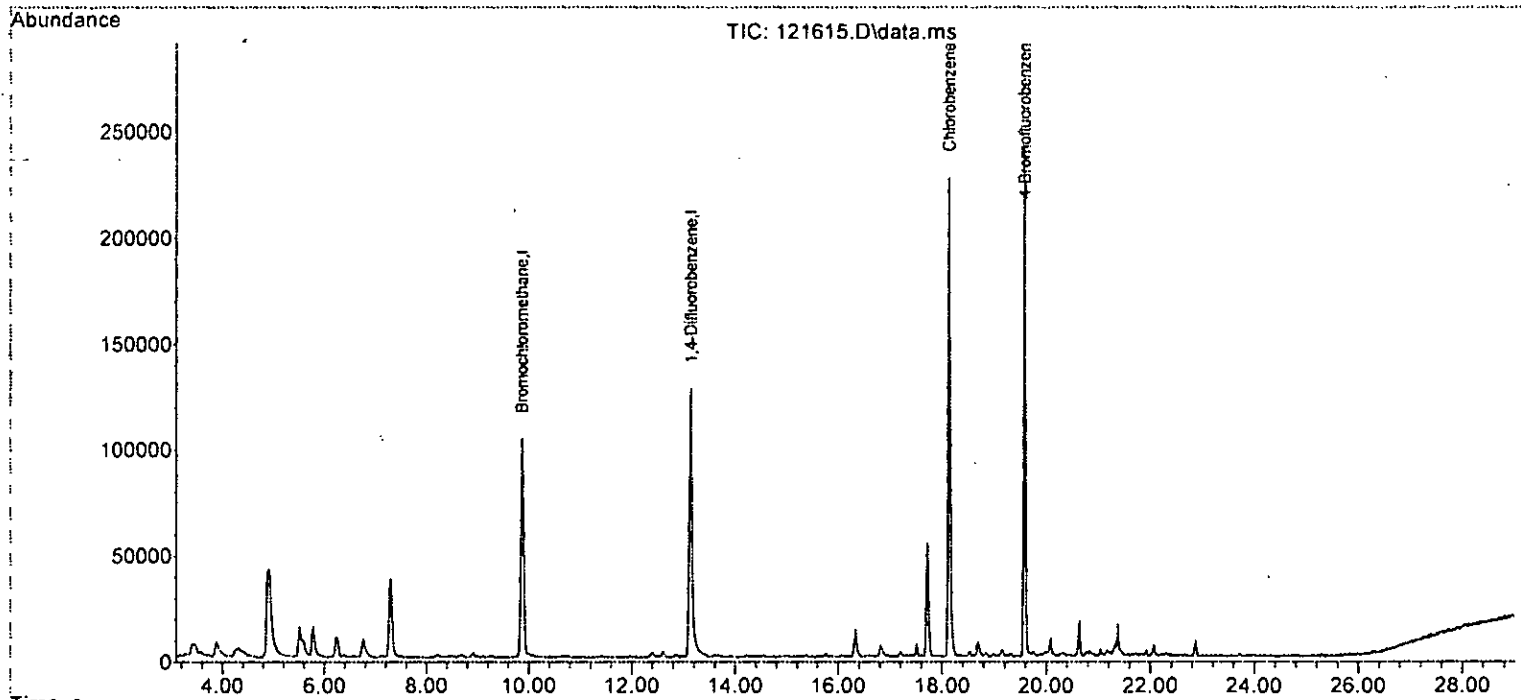
Quant Time: Dec 18 15:28:34 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T01SDC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D. d	
43) Methyl methacrylate	0.00		0		N.D. d	
44) Heptane	0.00		0		N.D. d	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	0.00		0		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D. d	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D. d	
50) Toluene	0.00		0		N.D. d	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	0.00		0		N.D. d	
53) Tetrachloroethene	17.52	164	1585	0.173	ppbv	93
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	0.00		0		N.D. d	
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D. d	
60) Nonane	0.00		0		N.D. d	
61) Isopropylbenzene	0.00		0		N.D. d	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D. d	
64) 4-Ethyltoluene	0.00		0		N.D. d	
65) m,p-Xylene	0.00		0		N.D. d	
66) o-Xylene	0.00		0		N.D. d	
67) Styrene	0.00		0		N.D. d	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D. d	
71) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
72) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
73) 1,3-Dichlorobenzene	0.00		0		N.D. d	
74) 1,4-Dichlorobenzene	0.00		0		N.D. d	
75) 1,2-Dichlorobenzene	0.00		0		N.D. d	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77) Naphthalene	0.00		0		N.D. d	
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121615.D  
Acq On : 17 Dec 2022 12:19 am  
Operator : bat  
Sample : 212177-04  
Misc : T5  
ALS Vial : 15 Sample Multiplier: 1  
InstName : GCMS7

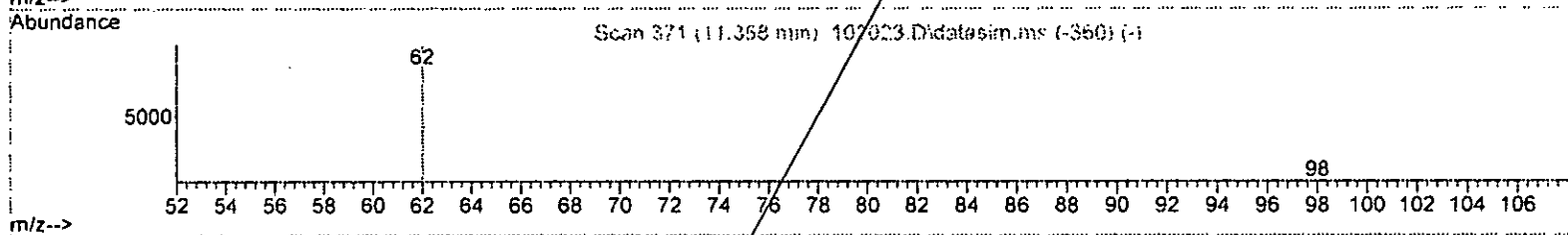
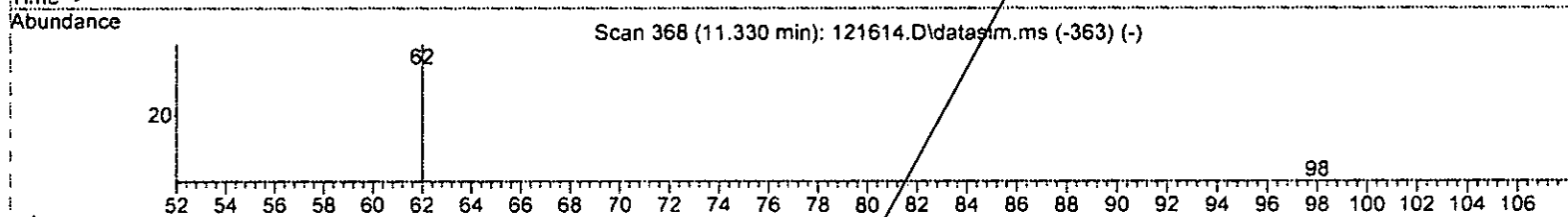
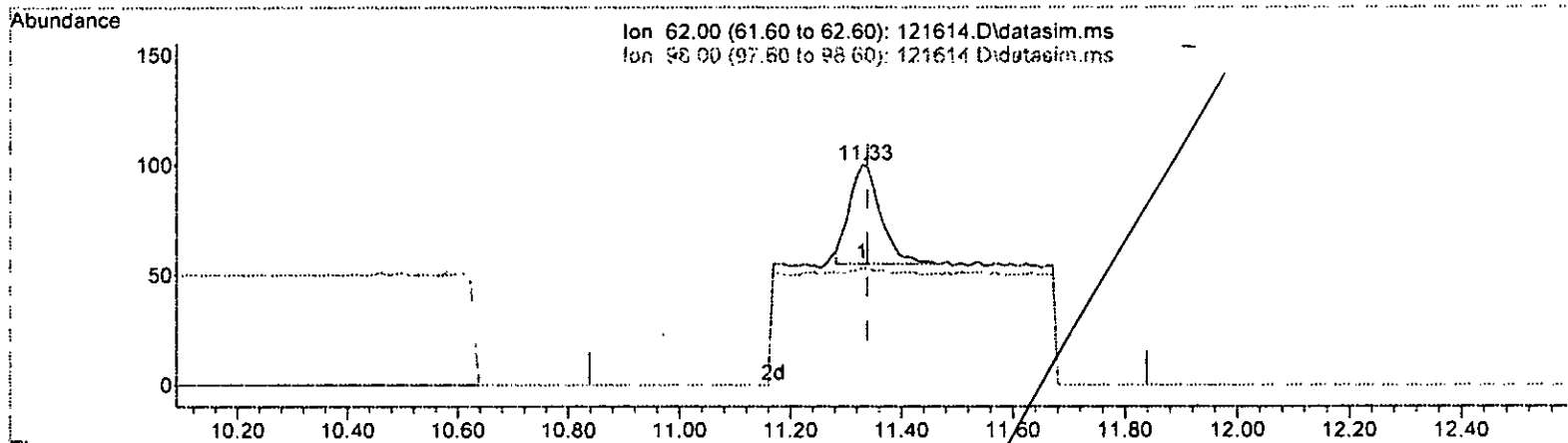
Quant Time: Dec 18 15:28:34 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : TO-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth: T015DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121614.D  
 Acq On : 16 Dec 2022 11:32 pm  
 Operator : bat  
 Sample : 212177-05  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:31 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121614.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.330min (-0.009) 0.010 ppbv

response 176

Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	6.67
0.00	0.00	0.00
0.00	0.00	0.00

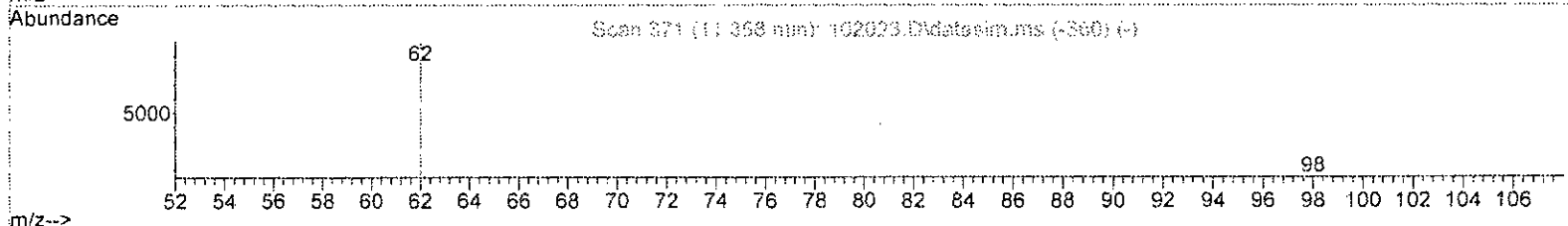
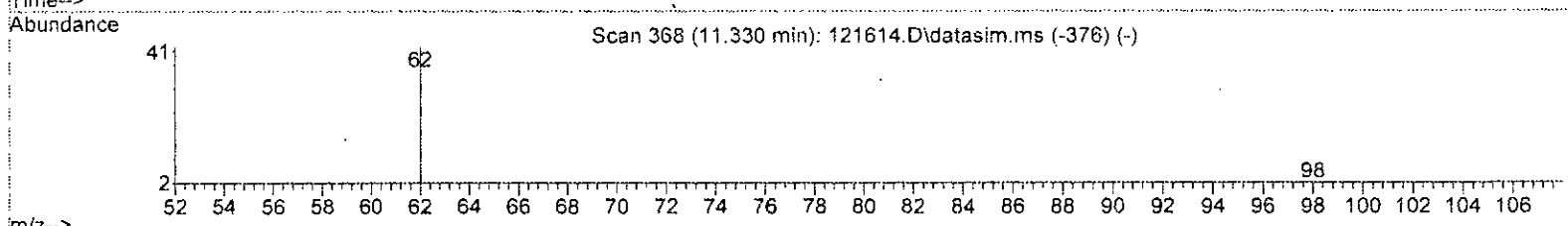
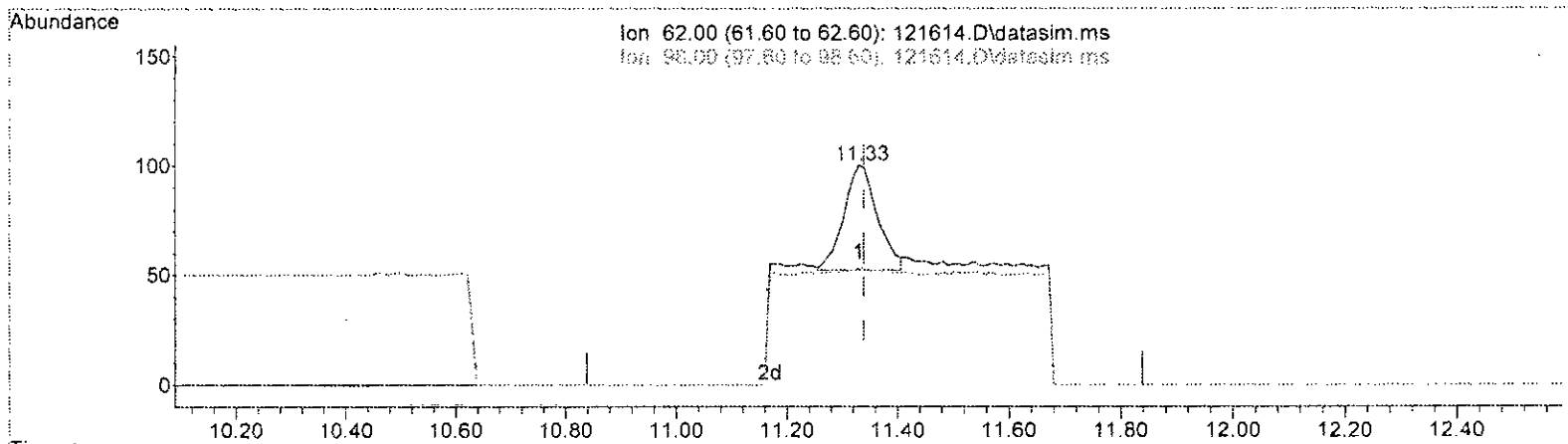
*Handwritten note:* D (al)arhu



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121614.D  
 Acq On : 16 Dec 2022 11:32 pm  
 Operator : bat  
 Sample : 212177-05  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:31 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121614.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.330min (-0.009) 0.013 ppbv m

response	204
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 53.00#
0.00	0.00 0.00
0.00	0.00 0.00

*Handwritten note: u (a/z) r/w*

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121614.D  
 Acq On : 16 Dec 2022 11:32 pm  
 Operator : bat  
 Sample : 212177-05  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

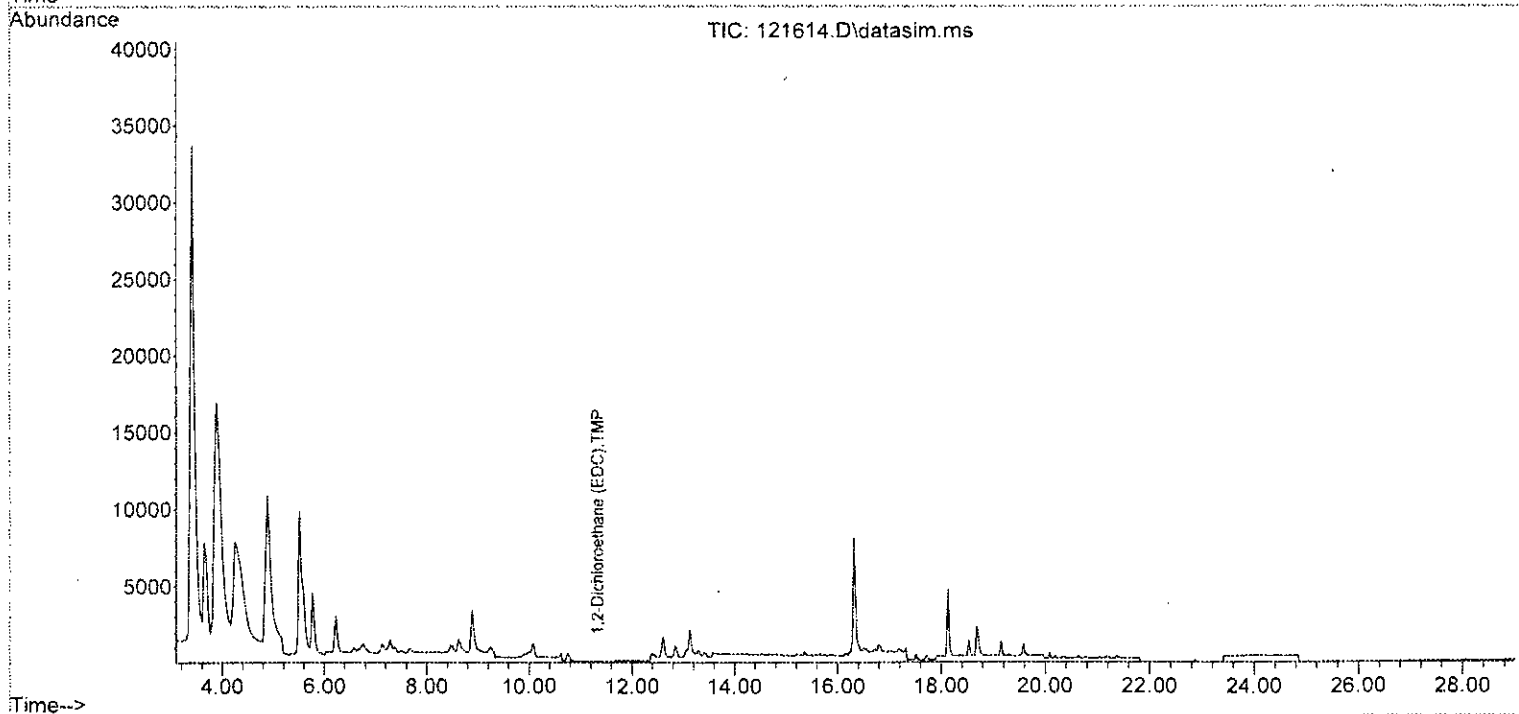
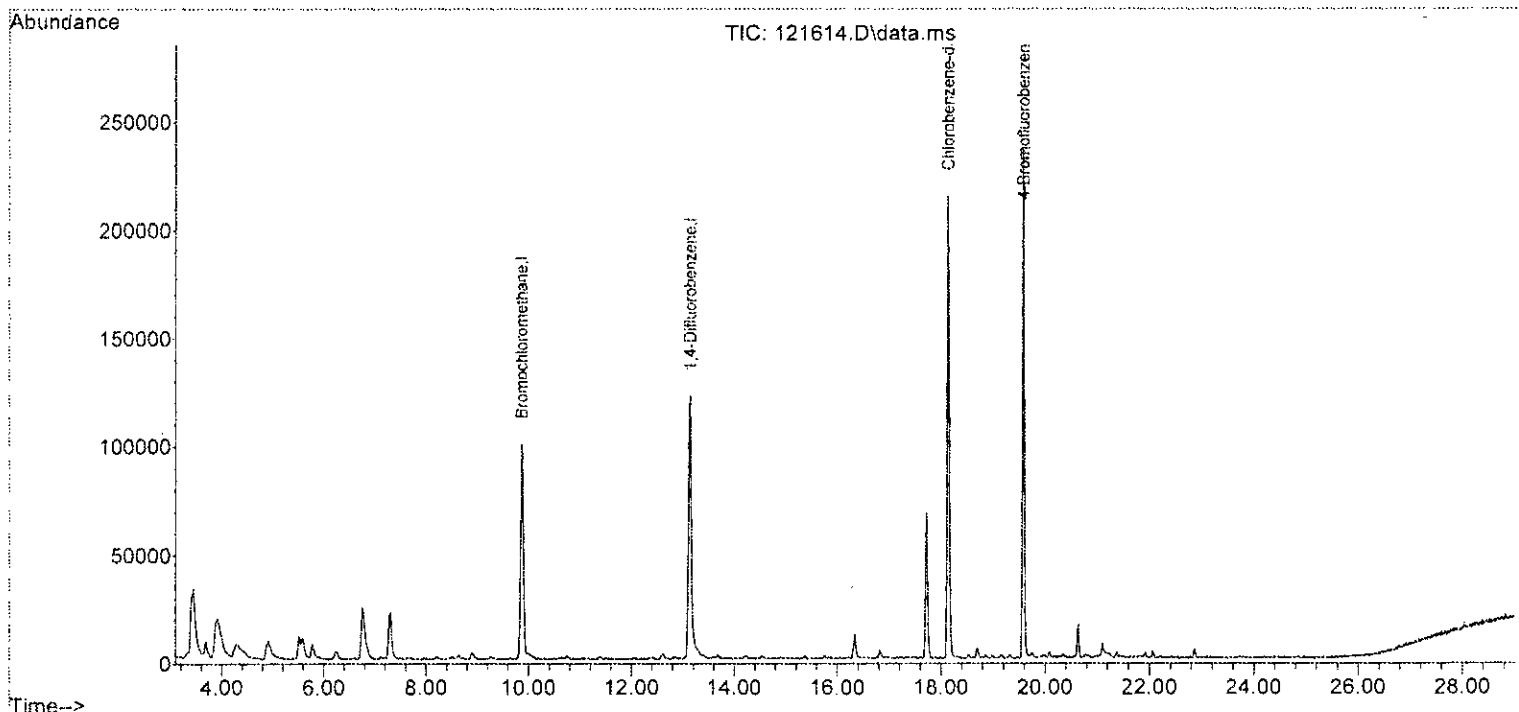
Quant Time: Dec 18 15:28:31 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

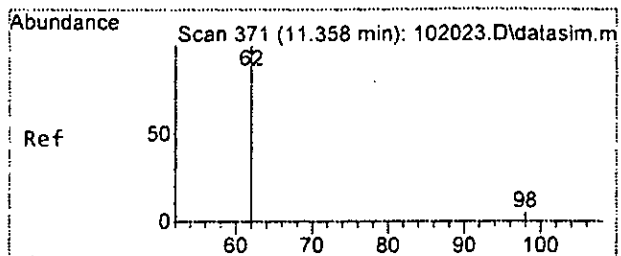
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	47906	10.000	ppbv	-0.02
39) 1,4-Difluorobenzene	13.14	114	185442	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	178237	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	106505	8.622	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	86.20%
Target Compounds						
34] 1,2-Dichloroethane (EDC)	11.33	62	204m	0.013	ppbv	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

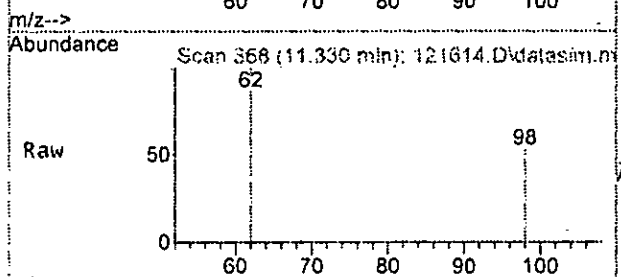
Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121614.D  
Acq On : 16 Dec 2022 11:32 pm  
Operator : bat  
Sample : 212177-05  
Misc : T4  
ALS Vial : 14 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Dec 18 15:28:31 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M

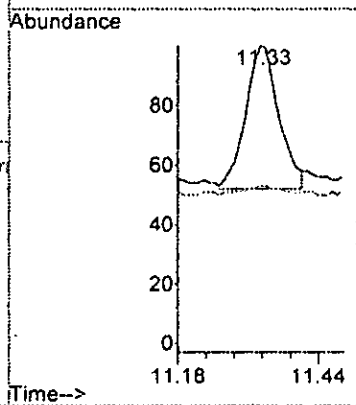
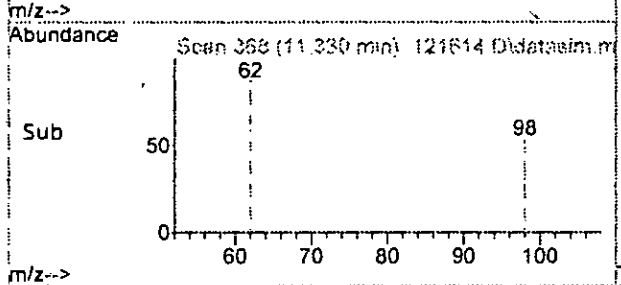




#34  
 1,2-Dichloroethane (EDC)  
 Concen: 0.013 ppbv m  
 RT: 11.33 min Scan# 368  
 Delta R.T. -0.009 min  
 Lab File: 121614.D  
 Acq: 16 Dec 2022 11:32 pm



Tgt Ion: 62 Resp: 204  
 Ion Ratio Lower Upper  
 62 100  
 98 53.0 0.0 35.3#



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121614.D  
 Acq On : 16 Dec 2022 11:32 pm  
 Operator : bat  
 Sample : 212177-05  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:31 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	47906	10.000	ppbv	-0.02
39) 1,4-Difluorobenzene	13.14	114	185442	10.000	ppbv	0.00
56) Chlorobenzene-d5	18.13	117	178237	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	106505	8.622	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	86.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0	N.D.	d	
3) Dichlorodifluoromethane	0.00		0	N.D.	d	
4) Chloromethane	0.00		0	N.D.	d	
5) F-114	0.00		0	N.D.	d	
6) Vinyl chloride	0.00		0	N.D.	d	
7) 1,3-Butadiene	0.00		0	N.D.	d	
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	0.00		0	N.D.	d	
10) Chloroethane	0.00		0	N.D.	d	
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	0.00		0	N.D.	d	
13) Acrolein	0.00		0	N.D.	d	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	0.00		0	N.D.	d	
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	0.00		0	N.D.	d	
18) 1,1-Dichloroethene	0.00		0	N.D.	d	
19) trans-1,2-Dichloroethene	0.00		0	N.D.	d	
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	0.00		0	N.D.	d	
23) CFC-113	0.00		0	N.D.	d	
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	0.00		0	N.D.	d	
26) Vinyl acetate	0.00		0	N.D.	d	
27) 1,1-Dichloroethane	0.00		0	N.D.	d	
28) cis-1,2-Dichloroethene	0.00		0	N.D.	d	
29) Hexane	0.00		0	N.D.	d	
30) Chloroform	0.00		0	N.D.	d	
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	0.00		0	N.D.	d	
33) 2-Butanone (MEK)	0.00		0	N.D.	d	
34] 1,2-Dichloroethane (EDC)	11.33	62	204m	0.013	ppbv	
35) 1,1,1-Trichloroethane	11.69	97	130	N.D.	d	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37) Benzene	0.00		0	N.D.	d	
38) Cyclohexane	0.00		0	N.D.	d	
40) 1,2-Dichloropropane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121614.D  
 Acq On : 16 Dec 2022 11:32 pm  
 Operator : bat  
 Sample : 212177-05  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

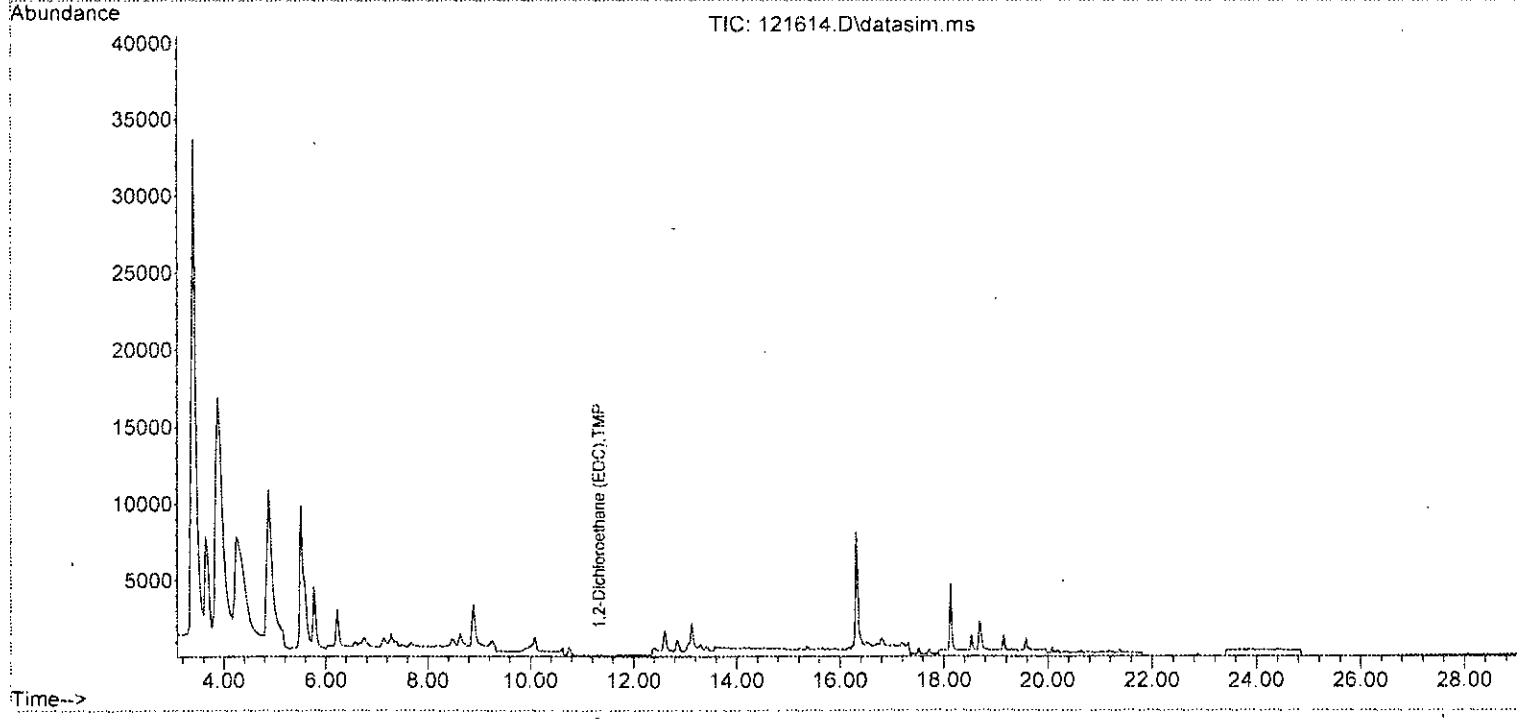
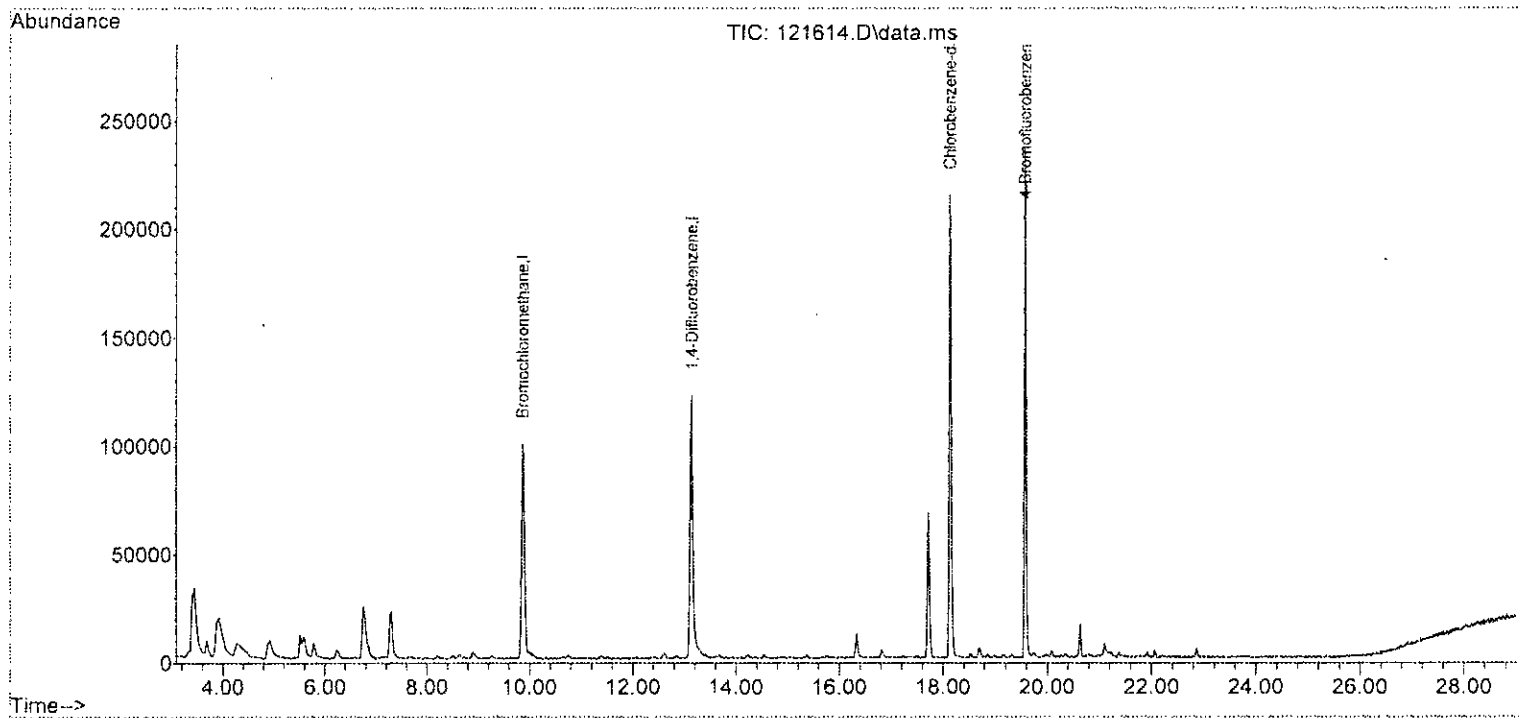
Quant Time: Dec 18 15:28:31 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D. d	
43) Methyl methacrylate	0.00		0		N.D. d	
44) Heptane	0.00		0		N.D. d	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	0.00		0		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D. d	
50) Toluene	0.00		0		N.D. d	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	0.00		0		N.D. d	
53) Tetrachloroethene	17.52	164	185		N.D.	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	0.00		0		N.D. d	
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
60) Nonane	0.00		0		N.D. d	
61) Isopropylbenzene	0.00		0		N.D. d	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D. d	
64) 4-Ethyltoluene	0.00		0		N.D. d	
65) m,p-Xylene	0.00		0		N.D. d	
66) o-Xylene	0.00		0		N.D. d	
67) Styrene	0.00		0		N.D. d	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D. d	
71) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
72) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
73) 1,3-Dichlorobenzene	0.00		0		N.D.	
74) 1,4-Dichlorobenzene	0.00		0		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77) Naphthalene	0.00		0		N.D. d	
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121614.D  
 Acq On : 16 Dec 2022 11:32 pm  
 Operator : bat  
 Sample : 212177-05  
 Misc : T4  
 ALS Vial : 14 Sample Multiplier: 1  
 InstName : GCMS7

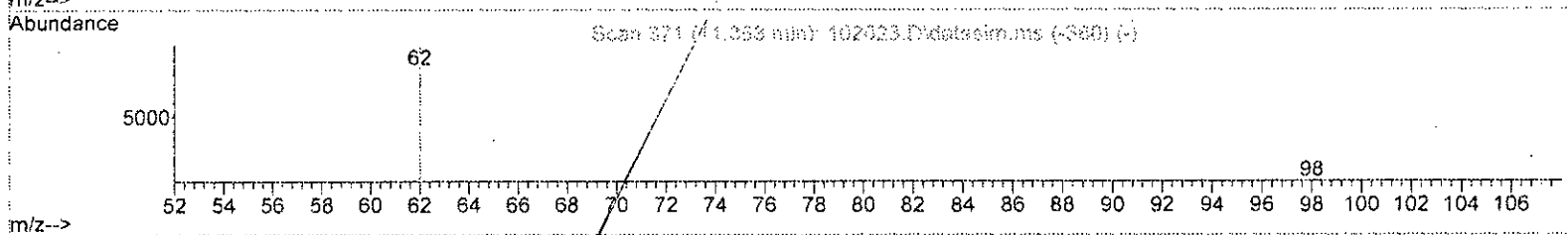
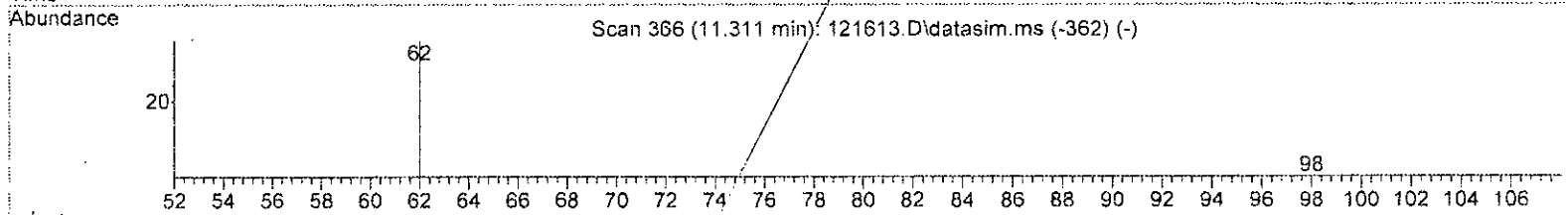
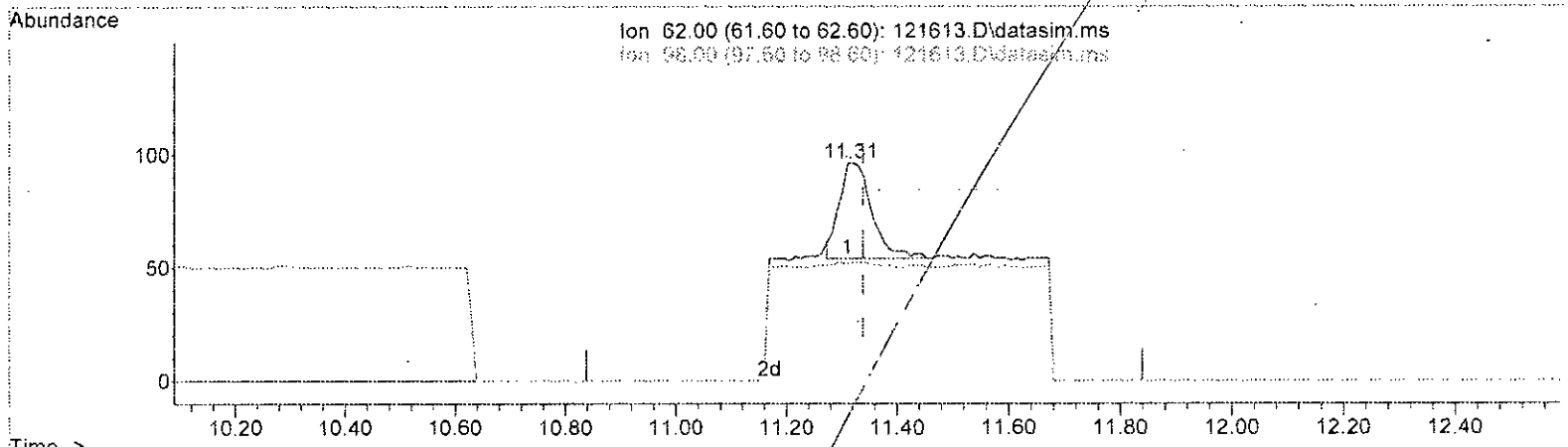
Quant Time: Dec 18 15:28:31 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121613.D  
 Acq On : 16 Dec 2022 10:44 pm  
 Operator : bat  
 Sample : 212177-06  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:28 2022  
 Quant Method : D:\GCMS7 Methods\111ST015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121613.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.311min (-0.028) 0.011 ppbv

response 171

Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	4.76
0.00	0.00	0.00
0.00	0.00	0.00

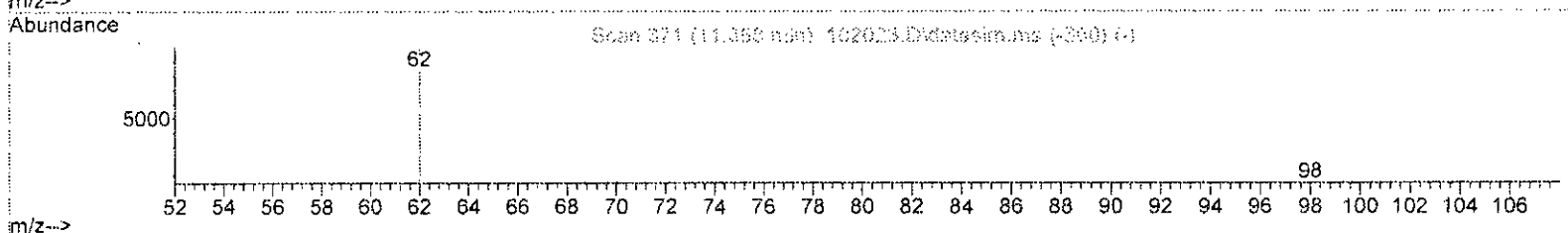
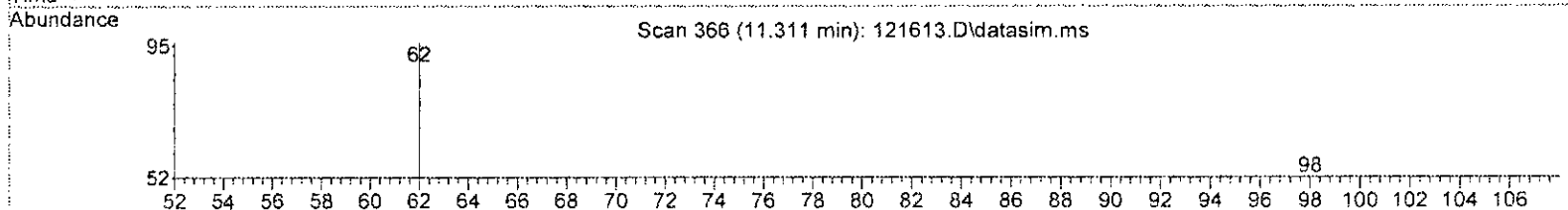
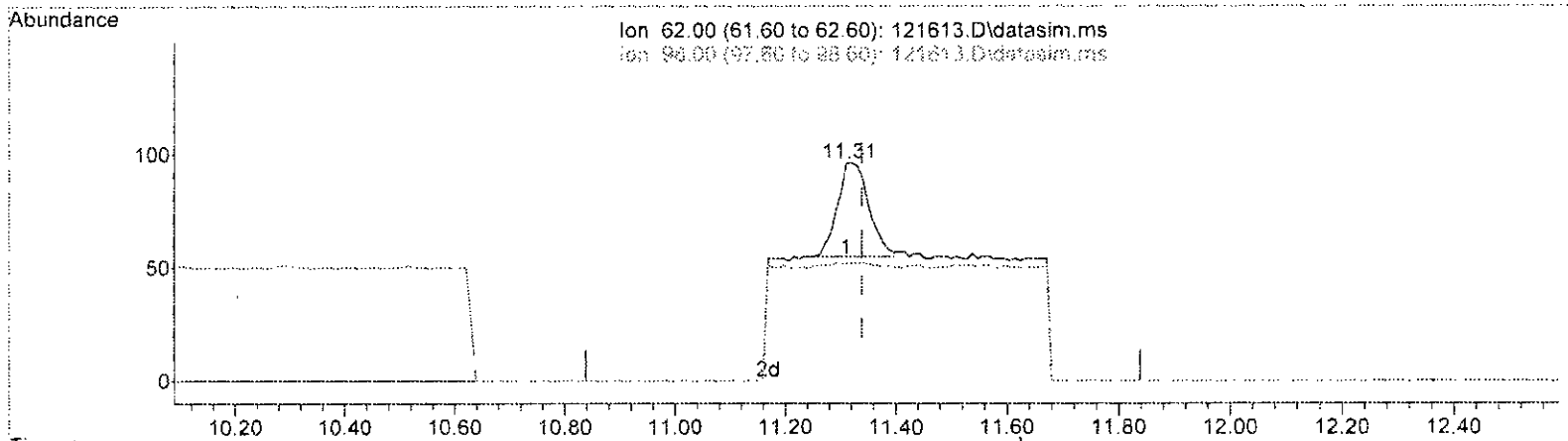
*Handwritten note:*  
 11/16/22  
 (a) b/c



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121613.D  
 Acq On : 16 Dec 2022 10:44 pm  
 Operator : bat  
 Sample : 212177-06  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:28 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121613.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)

11.311min (-0.028) 0.010 ppbv m

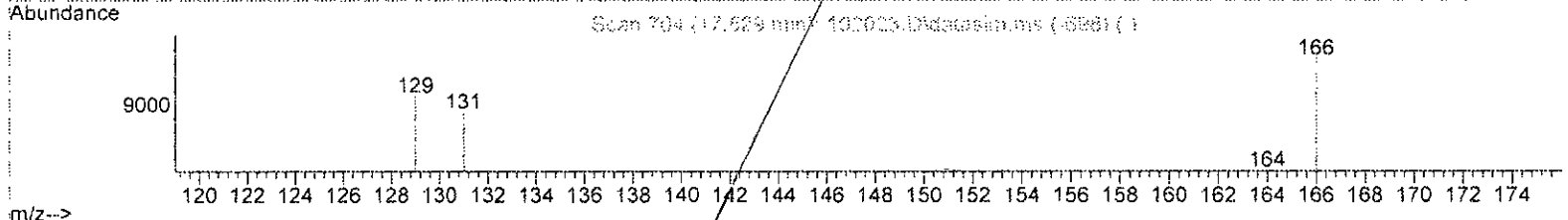
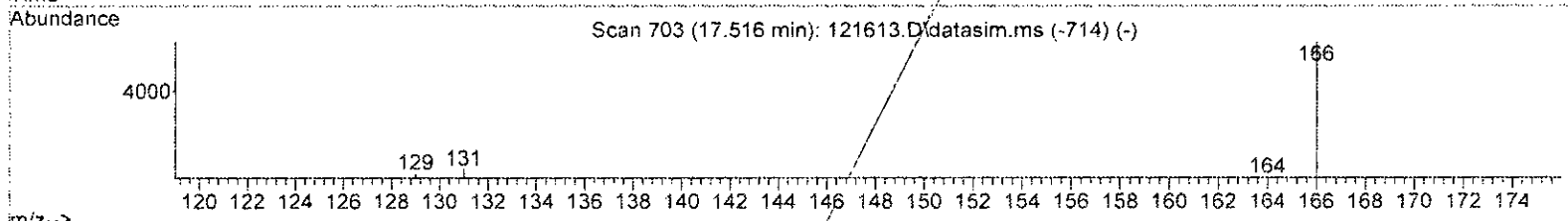
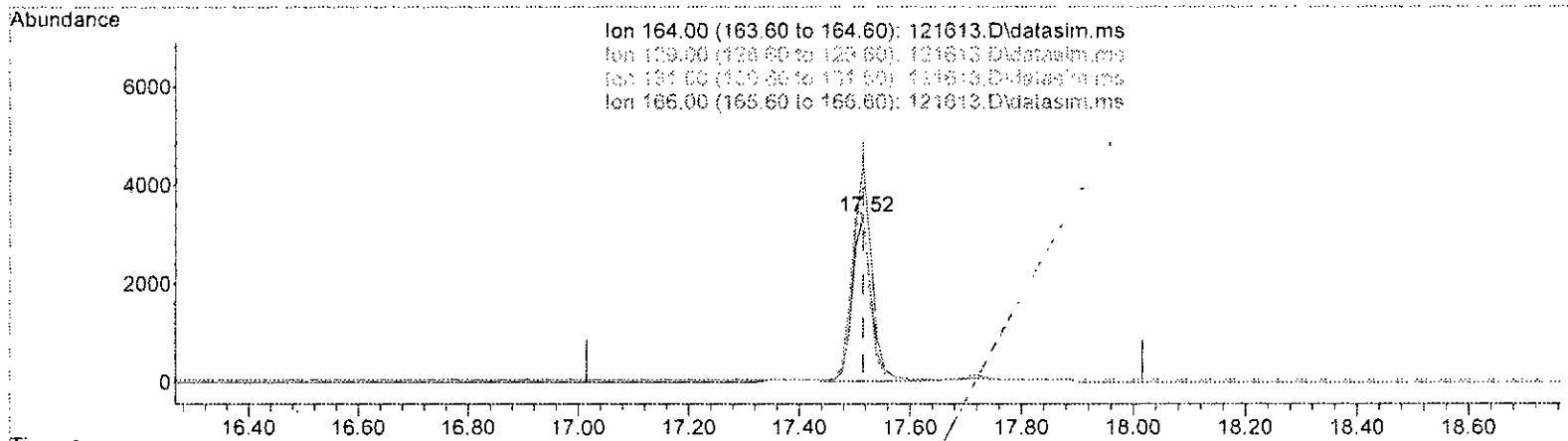
response	161
Ion	Exp% Act%
62.00	100.00 100.00
98.00	5.30 54.17#
0.00	0.00 0.00
0.00	0.00 0.00

*bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121613.D  
 Acq On : 16 Dec 2022 10:44 pm  
 Operator : bat  
 Sample : 212177-06  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:28 2022  
 Quant Method : D:\GCMS7 Methods\111ST015ss7.M  
 Quant Title : T0-15 5S method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121613.D\data.ms

(53) Tetrachloroethene (TMP)

17.516min (+ 0.000) 0.946 ppbv

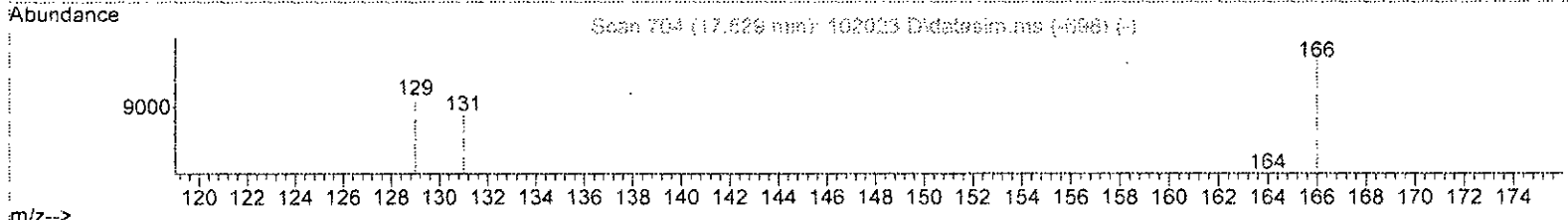
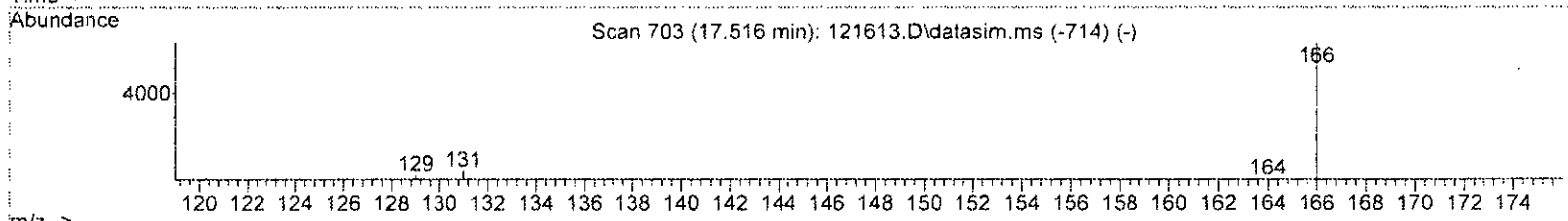
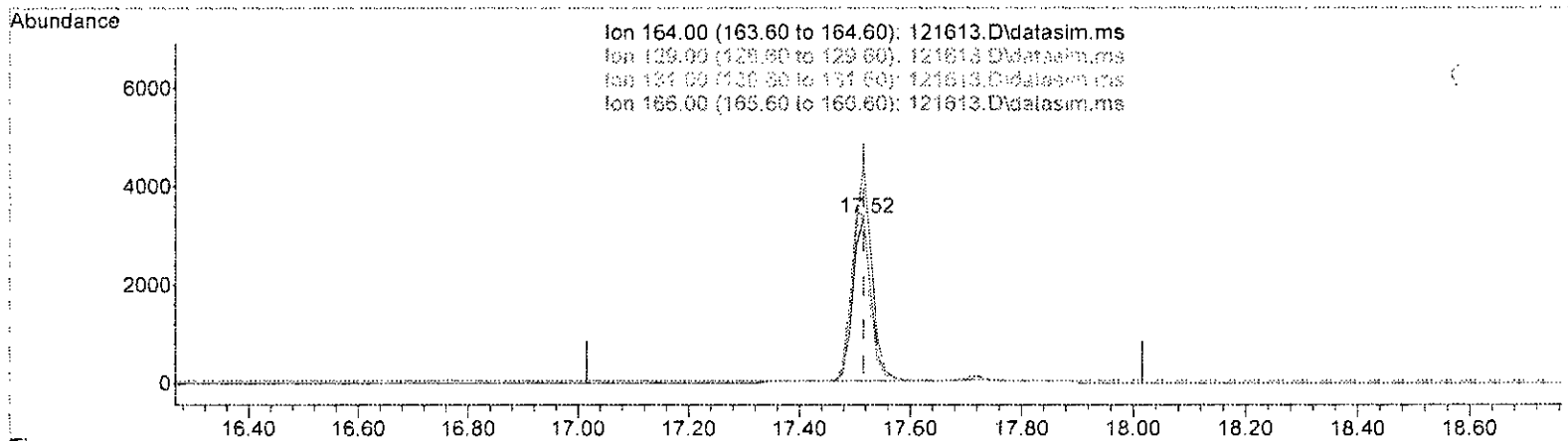
Ion	Exp%	Act%
164.00	100.00	100.00
129.00	93.20	100.88
131.00	100.70	101.90
166.00	137.50	132.76

*h  
 12/16/22*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121613.D  
 Acq On : 16 Dec 2022 10:44 pm  
 Operator : bat  
 Sample : 212177-06  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:28 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121613.D\data.ms

(53) Tetrachloroethene (TMP)

17.516min (+ 0.000) 0.899 ppbv m

response	7487
Ion	Exp% Act%
164.00	100.00 100.00
129.00	93.20 100.89
131.00	100.70 101.96
166.00	137.50 132.27

*Handwritten signature/initials*

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121613.D  
 Acq On : 16 Dec 2022 10:44 pm  
 Operator : bat  
 Sample : 212177-06  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

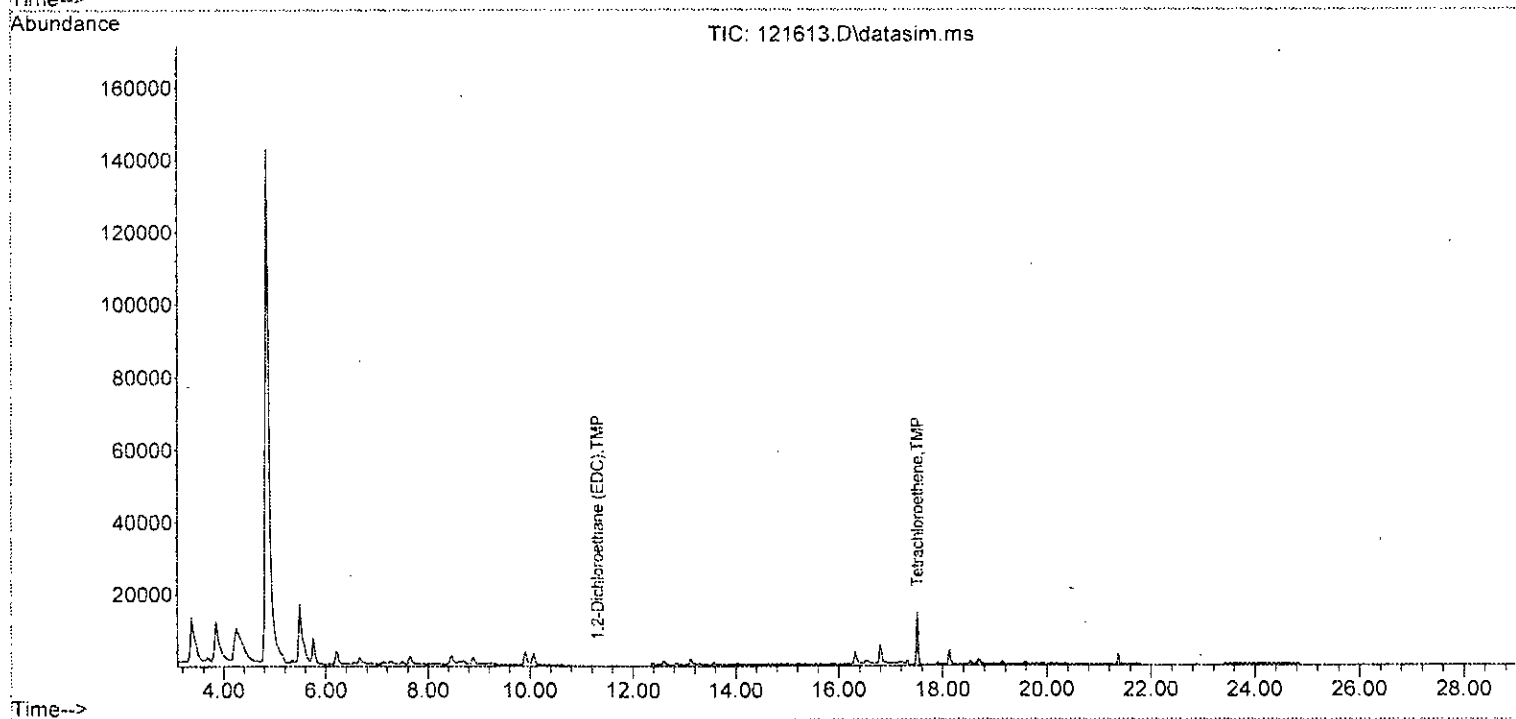
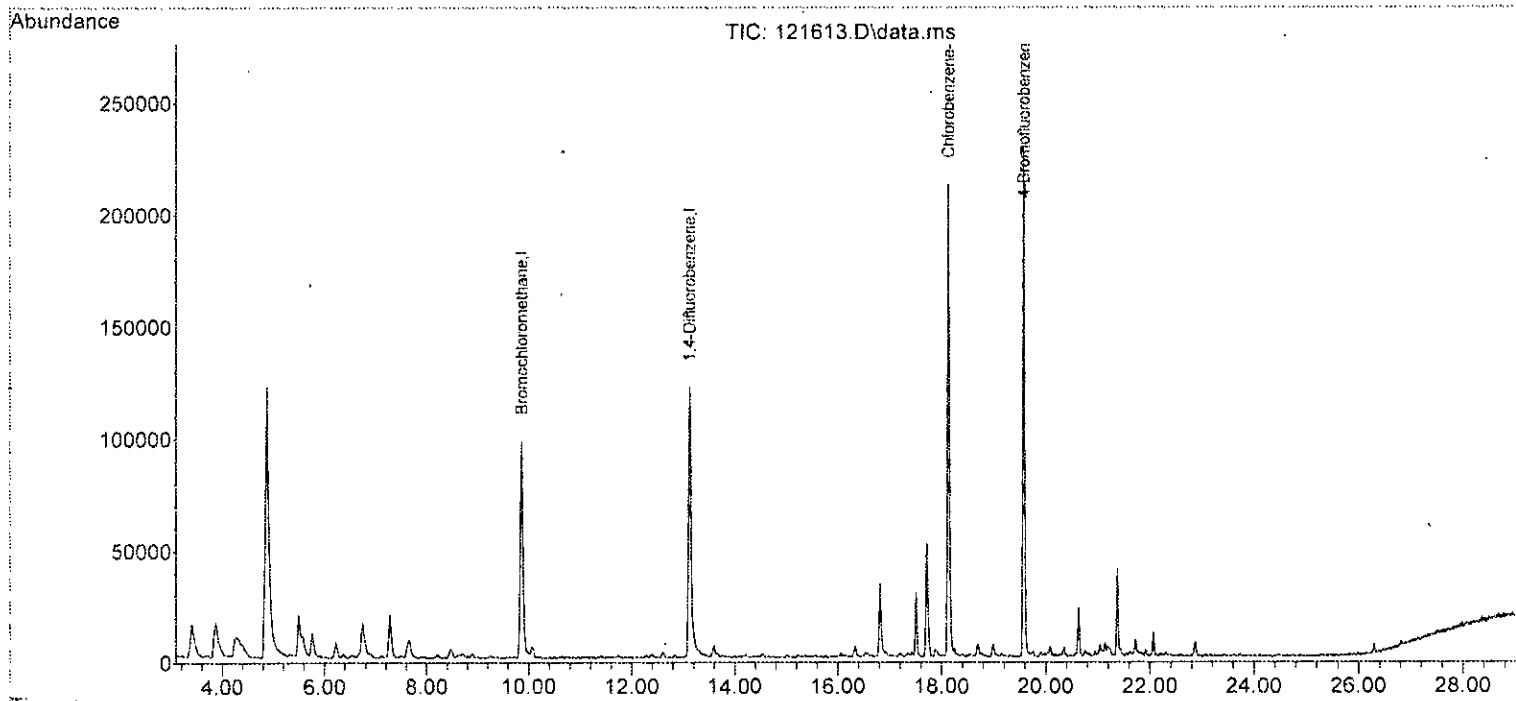
Quant Time: Dec 18 15:28:28 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

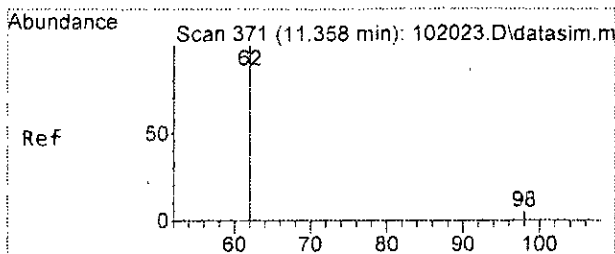
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Bromochloromethane	9.86	128	44033	10.000	ppbv	-0.02
39) 1,4-Difluorobenzene	13.12	114	169942	10.000	ppbv	-0.02
56) Chlorobenzene-d5	18.13	117	164348	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	96303	8.455	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	84.60%
Target Compounds						
34] 1,2-Dichloroethane (EDC)	11.31	62	161m	0.010	ppbv	Qvalue
53] Tetrachloroethene	17.52	164	7487m	0.899	ppbv	
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121613.D  
Acq On : 16 Dec 2022 10:44 pm  
Operator : bat  
Sample : 212177-06  
Misc : T3  
ALS Vial : 13 Sample Multiplier: 1  
InstName : GCMS7

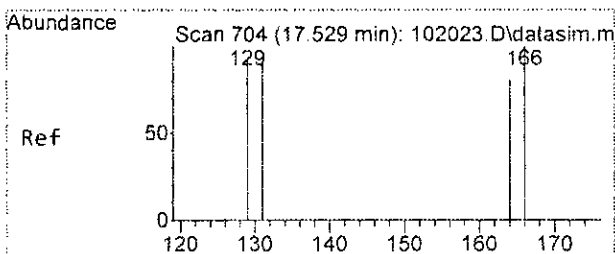
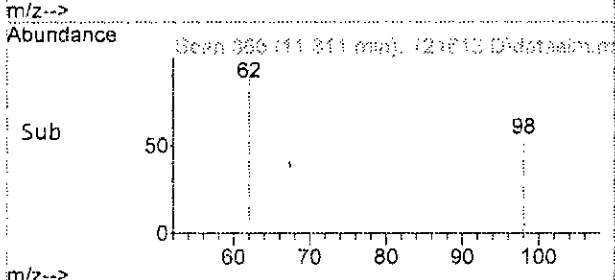
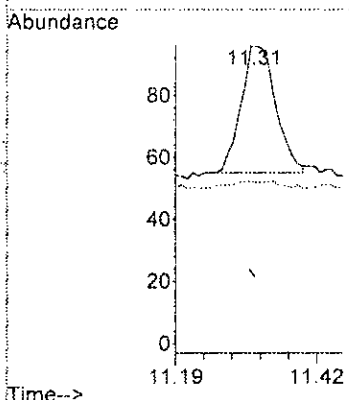
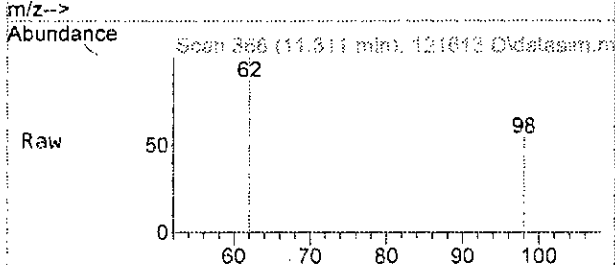
Quant Time: Dec 18 15:28:28 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M





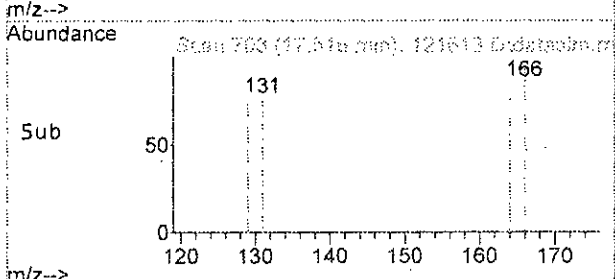
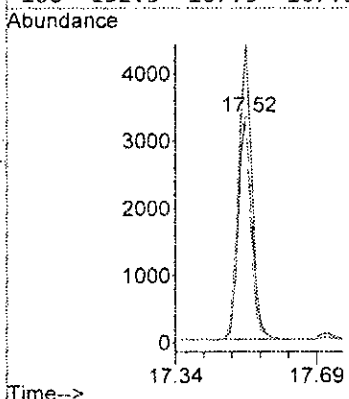
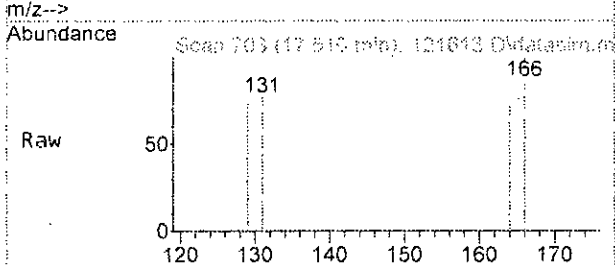
#34  
 1,2-Dichloroethane (EDC)  
 Concen: 0.010 ppbv m  
 RT: 11.31 min Scan# 366  
 Delta R.T. -0.028 min  
 Lab File: 121613.D  
 Acq: 16 Dec 2022 10:44 pm

Tgt Ion: 62 Resp: 161  
 Ion Ratio Lower Upper  
 62 100  
 98 54.2 0.0 35.3#



#53  
 Tetrachloroethene  
 Concen: 0.899 ppbv m  
 RT: 17.52 min Scan# 703  
 Delta R.T. 0.000 min  
 Lab File: 121613.D  
 Acq: 16 Dec 2022 10:44 pm

Tgt Ion: 164 Resp: 7487  
 Ion Ratio Lower Upper  
 164 100  
 129 100.9 63.2 123.2  
 131 102.0 70.7 130.7  
 166 132.3 107.5 167.5



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121613.D  
 Acq On : 16 Dec 2022 10:44 pm  
 Operator : bat  
 Sample : 212177-06  
 Misc : T3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:28 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	44033	10.000	ppbv	-0.02
39) 1,4-Difluorobenzene	13.12	114	169942	10.000	ppbv	-0.02
56) Chlorobenzene-d5	18.13	117	164348	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	96303	8.455	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	84.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0	N.D.	d	
3) Dichlorodifluoromethane	0.00		0	N.D.	d	
4) Chloromethane	0.00		0	N.D.	d	
5) F-114	0.00		0	N.D.	d	
6) Vinyl chloride	0.00		0	N.D.	d	
7) 1,3-Butadiene	0.00		0	N.D.	d	
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	0.00		0	N.D.	d	
10) Chloroethane	0.00		0	N.D.	d	
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	0.00		0	N.D.	d	
13) Acrolein	0.00		0	N.D.	d	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	0.00		0	N.D.	d	
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	0.00		0	N.D.	d	
18) 1,1-Dichloroethene	0.00		0	N.D.	d	
19) trans-1,2-Dichloroethene	0.00		0	N.D.	d	
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	0.00		0	N.D.	d	
23) CFC-113	0.00		0	N.D.	d	
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	0.00		0	N.D.	d	
26) Vinyl acetate	0.00		0	N.D.	d	
27) 1,1-Dichloroethane	0.00		0	N.D.	d	
28) cis-1,2-Dichloroethene	9.85	96	204	N.D.	d	
29) Hexane	0.00		0	N.D.	d	
30) Chloroform	0.00		0	N.D.	d	
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	0.00		0	N.D.	d	
33) 2-Butanone (MEK)	0.00		0	N.D.	d	
34] 1,2-Dichloroethane (EDC)	11.31	62	161m	0.010	ppbv	
35) 1,1,1-Trichloroethane	0.00		0	N.D.	d	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37) Benzene	0.00		0	N.D.	d	
38) Cyclohexane	0.00		0	N.D.	d	
40) 1,2-Dichloropropane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121613.D  
 Acq On : 16 Dec 2022 10:44 pm  
 Operator : bat  
 Sample : 212177-06  
 Misc : F3  
 ALS Vial : 13 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:28 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

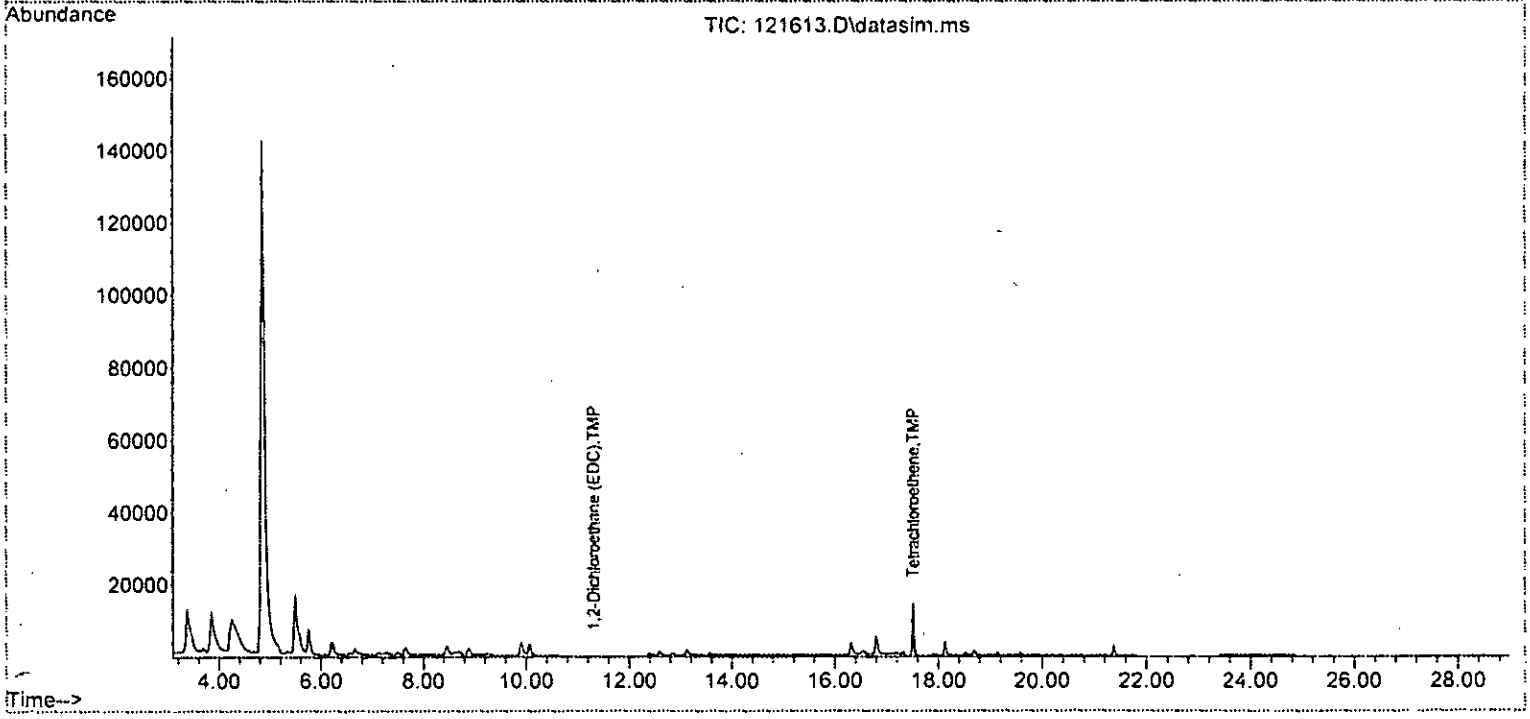
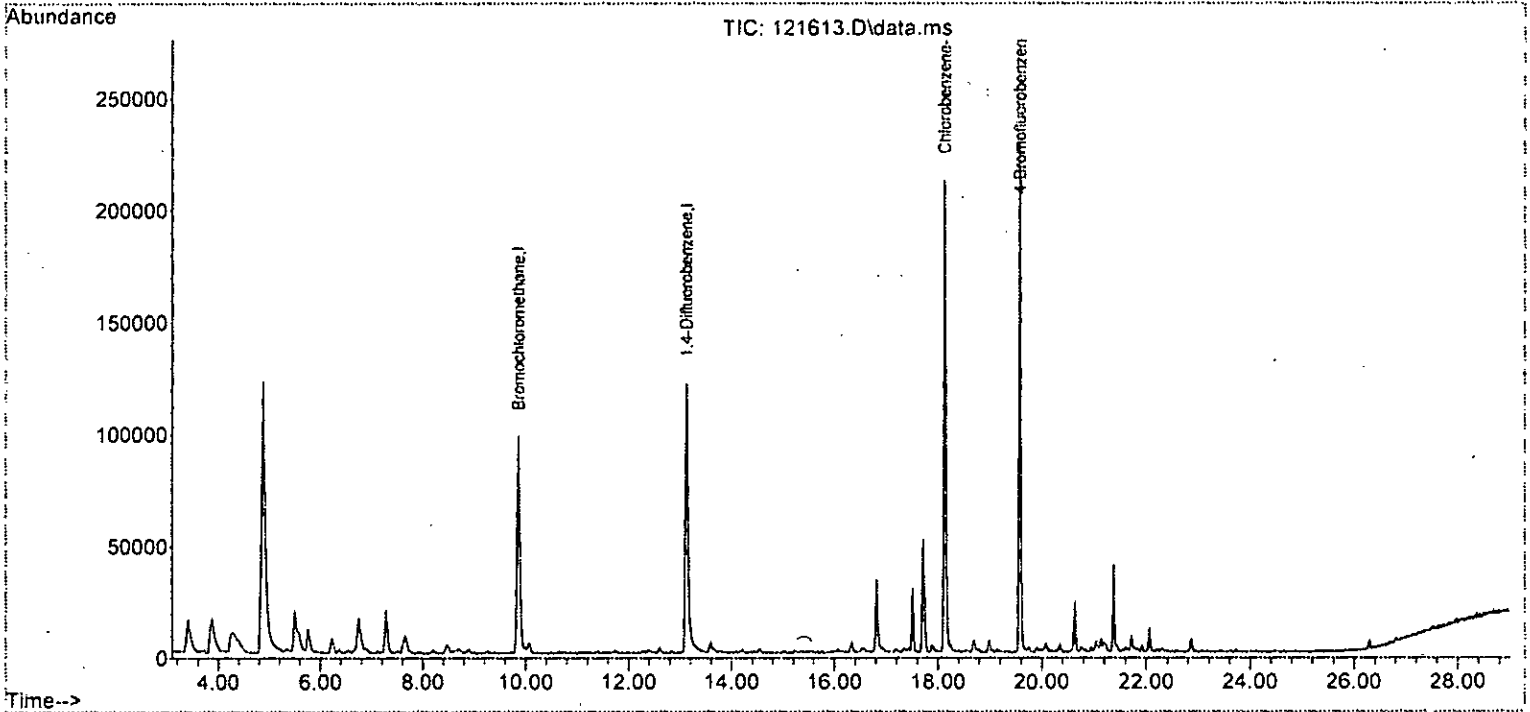
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D. d	
43) Methyl methacrylate	0.00		0		N.D. d	
44) Heptane	0.00		0		N.D. d	
45) Bromodichloromethane	0.00		0		N.D. d	
46) Trichloroethene	0.00		0		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D. d	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	0.00		0		N.D. d	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	0.00		0		N.D. d	
53) Tetrachloroethene	17.52	164	7487m	0.899	ppbv	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	0.00		0		N.D. d	
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
60) Nonane	0.00		0		N.D. d	
61) Isopropylbenzene	0.00		0		N.D. d	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D. d	
64) 4-Ethyltoluene	0.00		0		N.D. d	
65) m,p-Xylene	0.00		0		N.D. d	
66) o-Xylene	0.00		0		N.D. d	
67) Styrene	0.00		0		N.D. d	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D. d	
71) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
72) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
73) 1,3-Dichlorobenzene	0.00		0		N.D.	
74) 1,4-Dichlorobenzene	0.00		0		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77) Naphthalene	0.00		0		N.D. d	
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121613.D  
Acq On : 16 Dec 2022 10:44 pm  
Operator : bat  
Sample : 212177-06  
Misc : T3  
ALS Vial : 13 Sample Multiplier: 1  
InstName : GCMS7

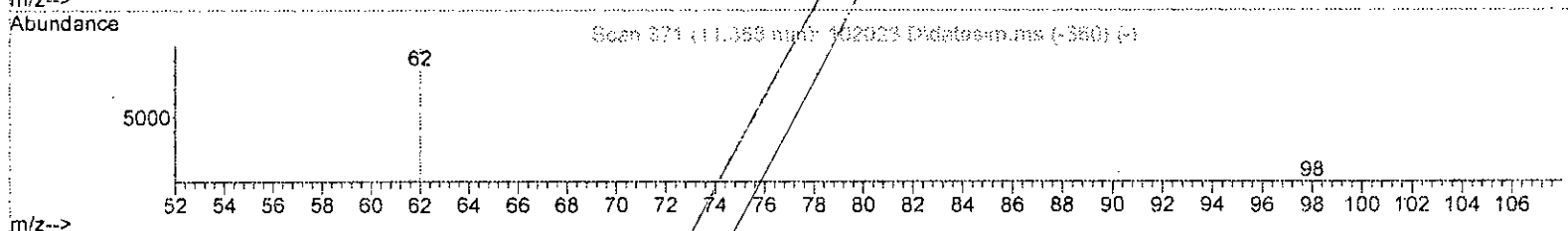
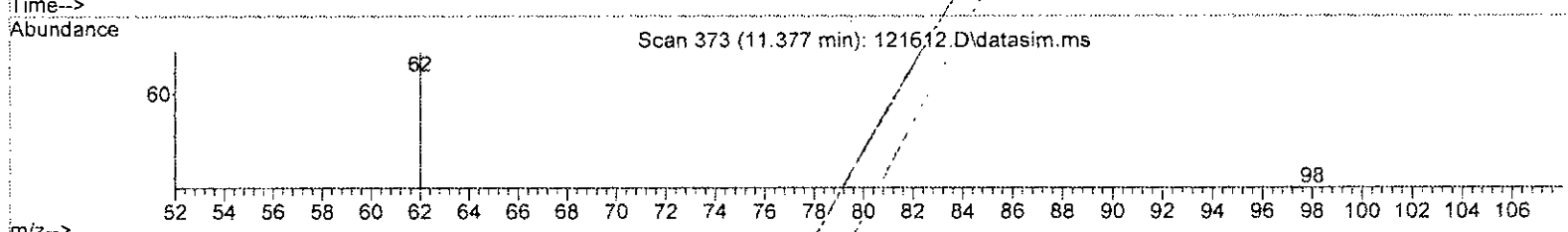
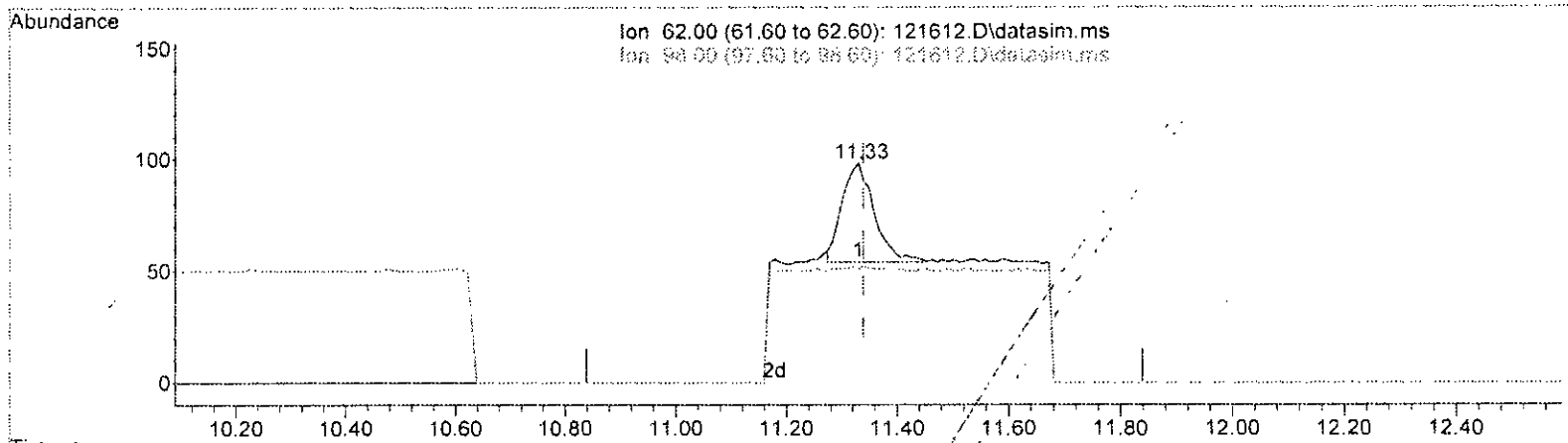
Quant Time: Dec 18 15:28:28 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M



Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121612.D  
 Acq On : 16 Dec 2022 10:00 pm  
 Operator : bat  
 Sample : 212177-07  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:25 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M



TIC: 121612.D\data.ms

(34) 1,2-Dichloroethane (EDC) (IMP)

11.330min (-0.009) 0.012 ppbv

response 178

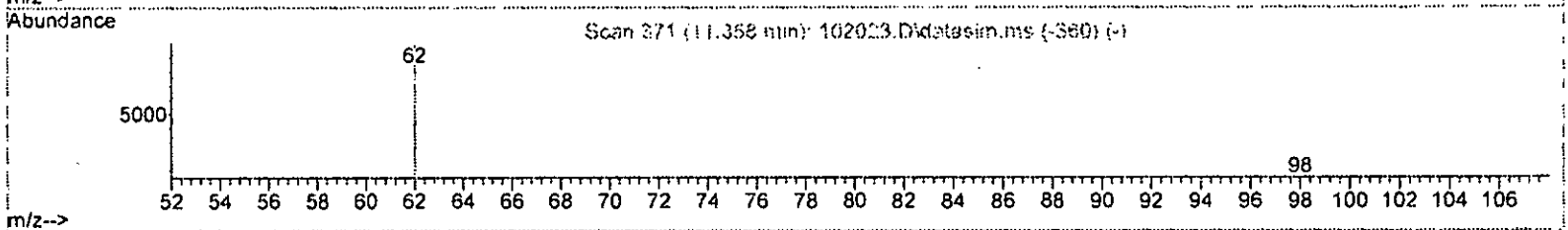
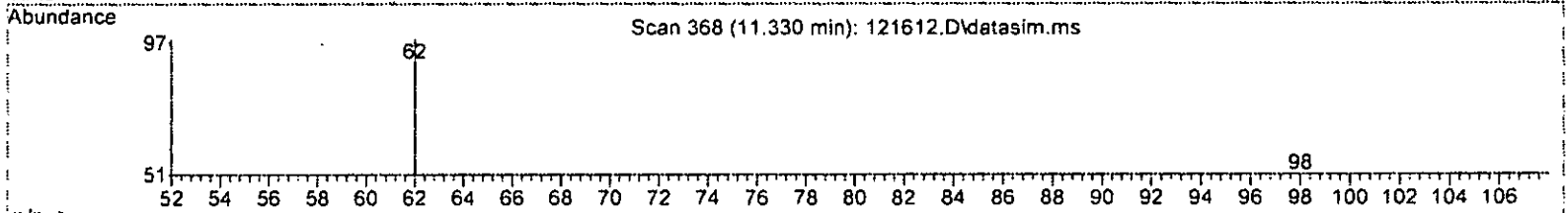
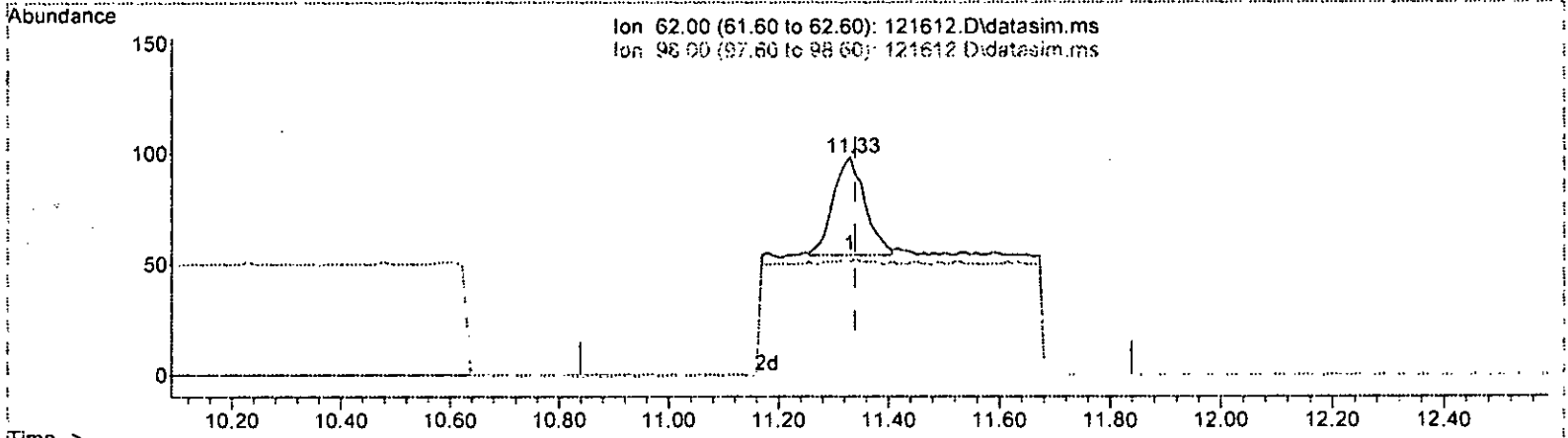
Ion	Exp%	Act%
62.00	100.00	100.00
98.00	5.30	2.27
0.00	0.00	0.00
0.00	0.00	0.00

*Handwritten signature: U/bat*

Quantitation Report (Qedit)

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121612.D  
 Acq On : 16 Dec 2022 10:00 pm  
 Operator : bat  
 Sample : 212177-07  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:25 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M



TIC: 121612.D\data.ms

(34) 1,2-Dichloroethane (EDC) (TMP)			
11.330min (-0.009) 0.012 ppbv m			
response		178	
Ion	Exp%	Act%	
62.00	100.00	100.00	
98.00	5.30	52.04#	
0.00	0.00	0.00	
0.00	0.00	0.00	

*Handwritten note: 4 calcd*

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121612.D  
 Acq On : 16 Dec 2022 10:00 pm  
 Operator : bat  
 Sample : 212177-07  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

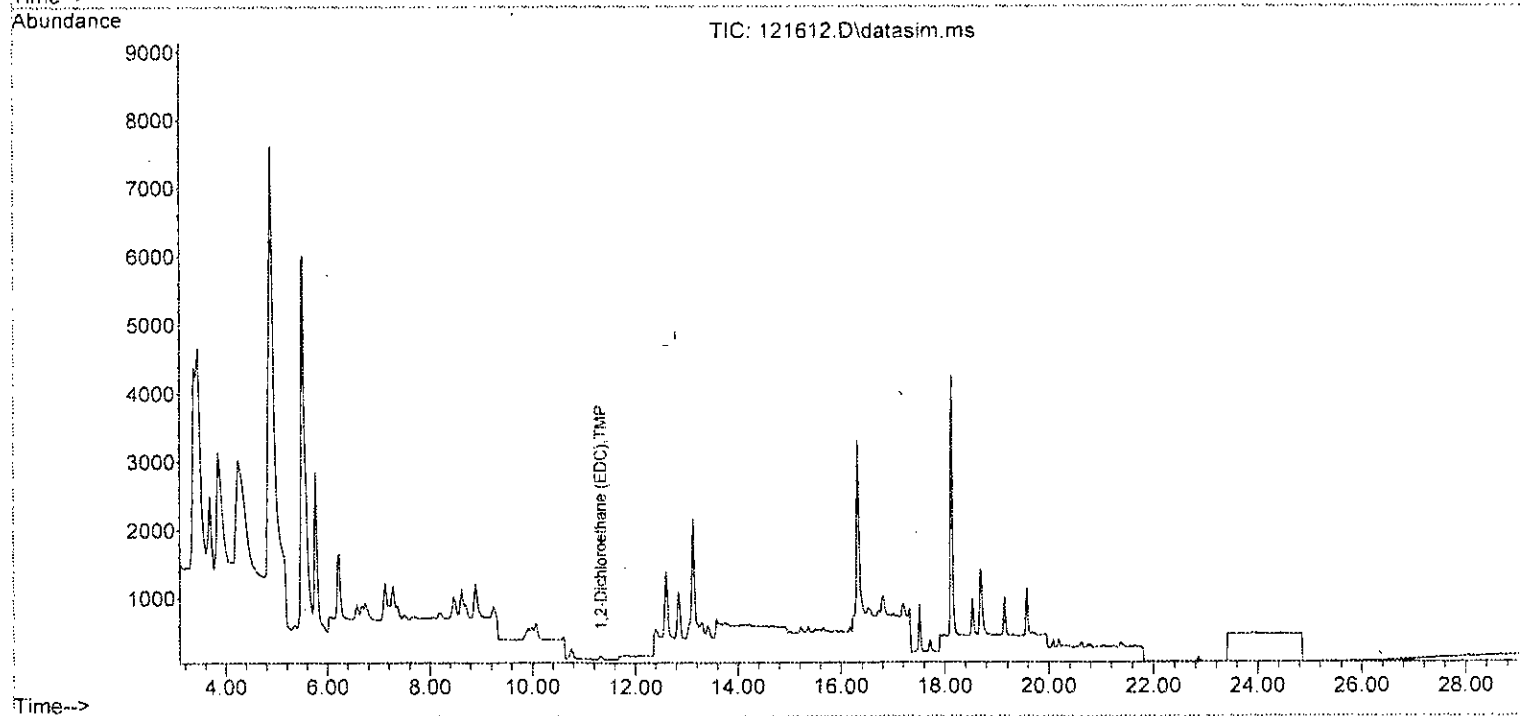
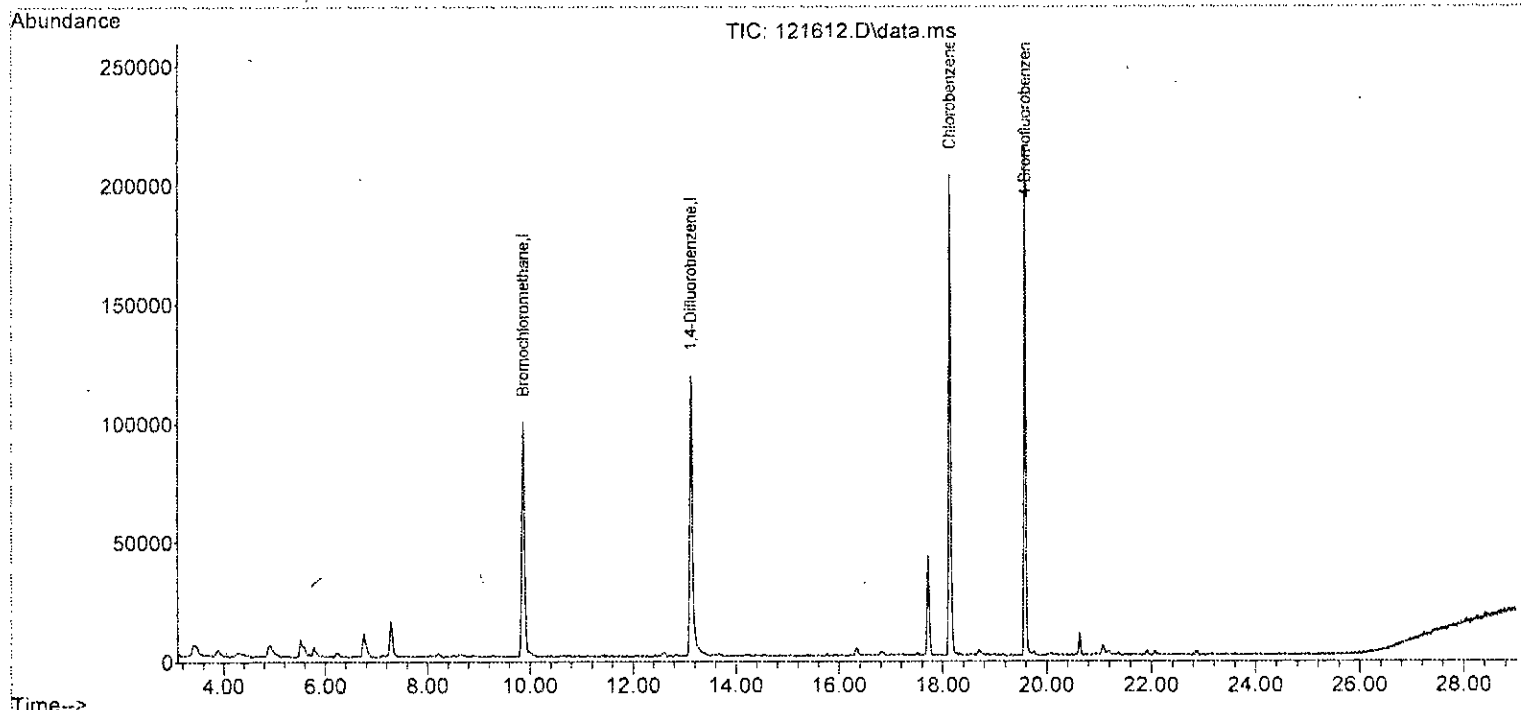
Quant Time: Dec 18 15:28:25 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : TO-15 S5 method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

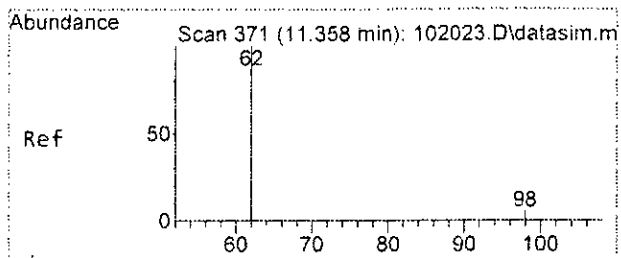
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	44819	10.000	ppbv	-0.02
39) 1,4-Difluorobenzene	13.12	114	179599	10.000	ppbv	-0.02
56) Chlorobenzene-d5	18.13	117	165033	10.000	ppbv	0.00
System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	97601	8.534	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	85.30%
Target Compounds						
34] 1,2-Dichloroethane (EDC)	11.33	62	178m	0.012	ppbv	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

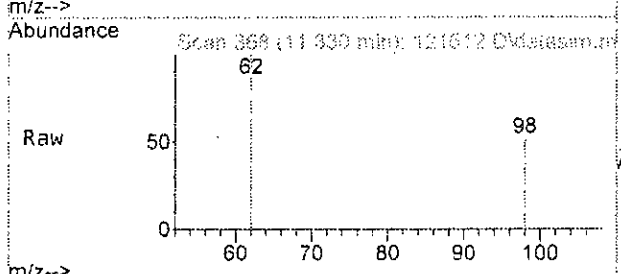
Data Path : D:\Proc\_GCMS7\12-16-22\  
Data File : 121612.D  
Acq On : 16 Dec 2022 10:00 pm  
Operator : bat  
Sample : 212177-07  
Misc : T2  
ALS Vial : 12 Sample Multiplier: 1  
InstName : GCMS7

Quant Time: Dec 18 15:28:25 2022  
Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
Quant Title : T0-15 SS method  
QLast Update : Fri Nov 18 12:30:32 2022  
Response via : Initial Calibration  
DataAcq Meth:T015DC.M

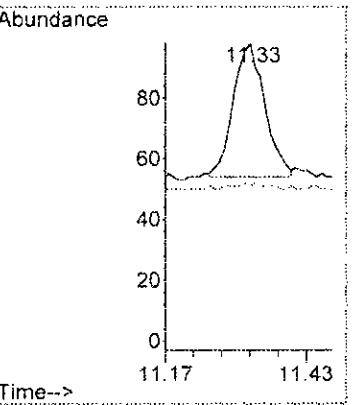
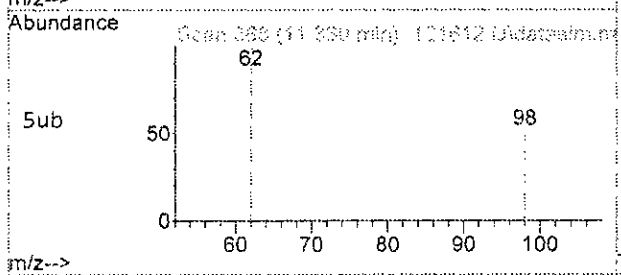




#34  
 1,2-Dichloroethane (EDC)  
 Concen: 0.012 ppbv m  
 RT: 11.33 min Scan# 368  
 Delta R.T. -0.009 min  
 Lab File: 121612.D  
 Acq: 16 Dec 2022 10:00 pm



Tgt Ion: 62 Resp: 178  
 Ion Ratio Lower Upper  
 62 100  
 98 52.0 0.0 35.3#



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121612.D  
 Acq On : 16 Dec 2022 10:00 pm  
 Operator : bat  
 Sample : 212177-07  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:25 2022  
 Quant Method : D:\GCMS7 Methods\1115TO15ss7.M  
 Quant Title : TO-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:TO15DC.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.86	128	44819	10.000	ppbv	-0.02
39) 1,4-Difluorobenzene	13.12	114	179599	10.000	ppbv	-0.02
56) Chlorobenzene-d5	18.13	117	165033	10.000	ppbv	0.00

System Monitoring Compounds						
69) 4-Bromofluorobenzene	19.58	95	97601	8.534	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	85.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00		0	N.D.	d	
3) Dichlorodifluoromethane	0.00		0	N.D.	d	
4) Chloromethane	0.00		0	N.D.	d	
5) F-114	0.00		0	N.D.	d	
6) Vinyl chloride	0.00		0	N.D.	d	
7) 1,3-Butadiene	0.00		0	N.D.	d	
8) Butane	0.00		0	N.D.	d	
9) Bromomethane	0.00		0	N.D.	d	
10) Chloroethane	0.00		0	N.D.	d	
11) Vinyl bromide	0.00		0	N.D.	d	
12) Ethanol	0.00		0	N.D.	d	
13) Acrolein	0.00		0	N.D.	d	
14) Pentane	0.00		0	N.D.	d	
15) Trichlorofluoromethane	0.00		0	N.D.	d	
16) Acetone	0.00		0	N.D.	d	
17) 2-Propanol	0.00		0	N.D.	d	
18) 1,1-Dichloroethene	0.00		0	N.D.	d	
19) trans-1,2-Dichloroethene	0.00		0	N.D.	d	
20) Methylene chloride	0.00		0	N.D.	d	
21) t-Butyl alcohol (TBA)	0.00		0	N.D.	d	
22) 3-Chloropropene	0.00		0	N.D.	d	
23) CFC-113	0.00		0	N.D.	d	
24) Carbon disulfide	0.00		0	N.D.	d	
25) Methyl t-butyl ether (...)	0.00		0	N.D.	d	
26) Vinyl acetate	0.00		0	N.D.	d	
27) 1,1-Dichloroethane	0.00		0	N.D.	d	
28) cis-1,2-Dichloroethene	0.00		0	N.D.	d	
29) Hexane	0.00		0	N.D.	d	
30) Chloroform	0.00		0	N.D.	d	
31) Ethyl acetate	0.00		0	N.D.	d	
32) Tetrahydrofuran	0.00		0	N.D.	d	
33) 2-Butanone (MEK)	0.00		0	N.D.	d	
34) 1,2-Dichloroethane (EDC)	11.33	62	178m	0.012	ppbv	
35) 1,1,1-Trichloroethane	11.71	97	163	N.D.	d	
36) Carbon tetrachloride	0.00		0	N.D.	d	
37) Benzene	0.00		0	N.D.	d	
38) Cyclohexane	0.00		0	N.D.	d	
40) 1,2-Dichloropropane	0.00		0	N.D.	d	

Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121612.D  
 Acq On : 16 Dec 2022 10:00 pm  
 Operator : bat  
 Sample : 212177-07  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:25 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth:T015DC.M

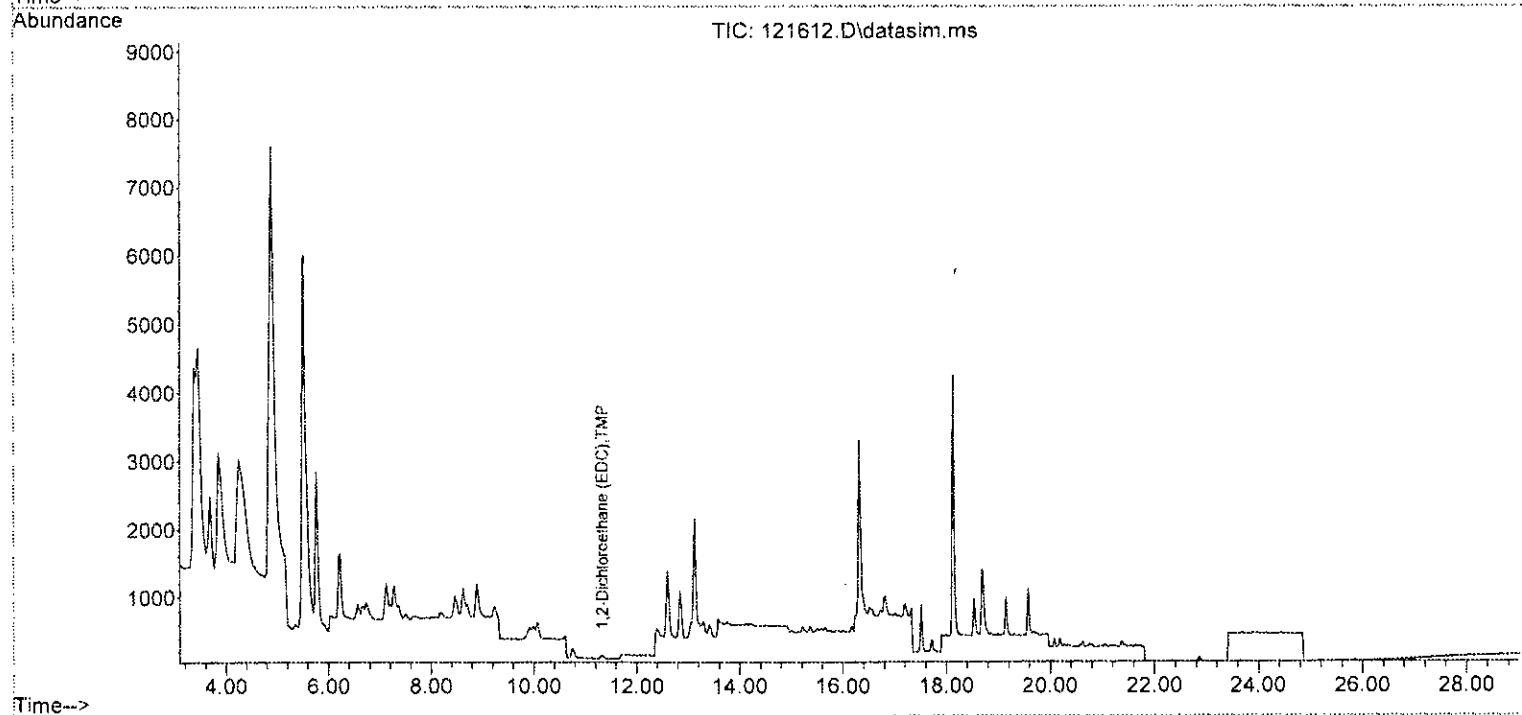
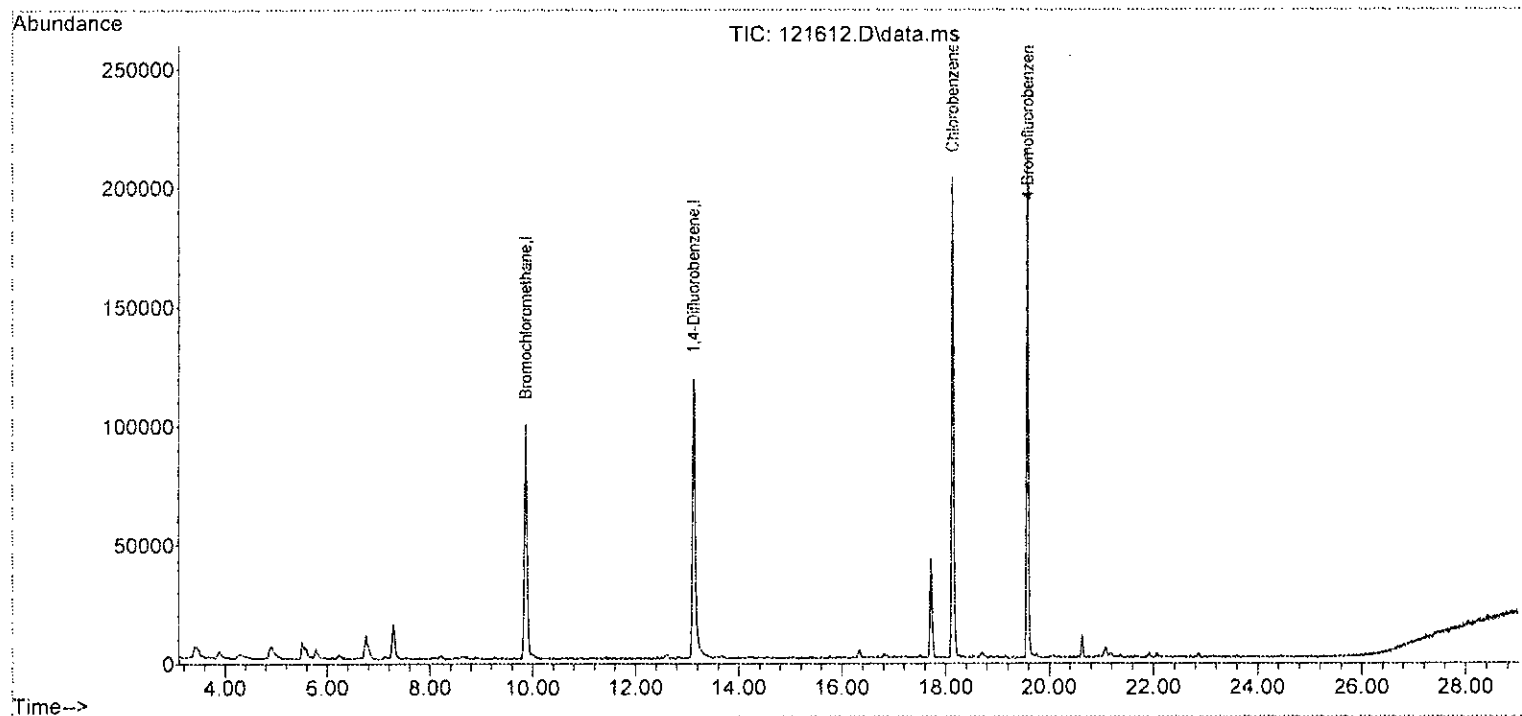
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,4-Dioxane	0.00		0		N.D.	
42) 2,2,4-Trimethylpentane	0.00		0		N.D. d	
43) Methyl methacrylate	0.00		0		N.D. d	
44) Heptane	0.00		0		N.D. d	
45) Bromodichloromethane	0.00		0		N.D.	
46) Trichloroethene	0.00		0		N.D.	
47) cis-1,3-Dichloropropene	0.00		0		N.D.	
48) 4-Methyl-2-pentanone	0.00		0		N.D.	
49) trans-1,3-Dichloropropene	0.00		0		N.D.	
50) Toluene	0.00		0		N.D. d	
51) 1,1,2-Trichloroethane	0.00		0		N.D.	
52) 2-Hexanone	0.00		0		N.D. d	
53) Tetrachloroethene	17.52	164	360		N.D.	
54) Dibromochloromethane	0.00		0		N.D.	
55) 1,2-Dibromoethane (EDB)	0.00		0		N.D.	
57) Chlorobenzene	0.00		0		N.D.	
58) Ethylbenzene	0.00		0		N.D. d	
59) 1,1,2,2-Tetrachloroethane	0.00		0		N.D.	
60) Nonane	0.00		0		N.D. d	
61) Isopropylbenzene	0.00		0		N.D. d	
62) 2-Chlorotoluene	0.00		0		N.D.	
63) Propylbenzene	0.00		0		N.D. d	
64) 4-Ethyltoluene	0.00		0		N.D. d	
65) m,p-Xylene	0.00		0		N.D. d	
66) o-Xylene	0.00		0		N.D. d	
67) Styrene	0.00		0		N.D.	
68) Bromoform	0.00		0		N.D.	
70) Benzyl chloride	0.00		0		N.D. d	
71) 1,3,5-Trimethylbenzene	0.00		0		N.D. d	
72) 1,2,4-Trimethylbenzene	0.00		0		N.D. d	
73) 1,3-Dichlorobenzene	0.00		0		N.D.	
74) 1,4-Dichlorobenzene	0.00		0		N.D.	
75) 1,2-Dichlorobenzene	0.00		0		N.D.	
76) 1,2,4-Trichlorobenzene	0.00		0		N.D.	
77) Naphthalene	0.00		0		N.D. d	
78) Hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\Proc\_GCMS7\12-16-22\  
 Data File : 121612.D  
 Acq On : 16 Dec 2022 10:00 pm  
 Operator : bat  
 Sample : 212177-07  
 Misc : T2  
 ALS Vial : 12 Sample Multiplier: 1  
 InstName : GCMS7

Quant Time: Dec 18 15:28:25 2022  
 Quant Method : D:\GCMS7 Methods\1115T015ss7.M  
 Quant Title : T0-15 SS method  
 QLast Update : Fri Nov 18 12:30:32 2022  
 Response via : Initial Calibration  
 DataAcq Meth: T015DC.M



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
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www.friedmanandbruya.com

November 30, 2022

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on November 16, 2022 from the Carson Cleaner RI 212280-01-10, F&BI 211239 project. There are 15 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: labdataattachments@anchorqea.com  
ACQ1130R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 16, 2022 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaner RI 212280-01-10, F&BI 211239 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>
211239 -01	CC-MW-2D-SO-7-20221115
211239 -02	CC-MW-2D-SO-15-20221115
211239 -03	CC-MW-FD1-SO-7-20221115
211239 -04	CC-MW-2D-SO-18-20221115
211239 -05	CC-MW-2D-SO-20-20221115
211239 -06	CC-MW-FD2-SO-20-20221115
211239 -07	CC-MW-2D-SO-27-20221115
211239 -08	CC-MW-2D-SO-33-20221115
211239 -09	CC-MW-2D-SO-39-20221115
211239 -10	CC-MW-2D-SO-41-20221115

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/22

Date Received: 11/16/22

Project: Carson Cleaner RI 212280-01-10, F&BI 211239

Date Extracted: NA

Date Analyzed: 11/17/22

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES  
FOR PERCENT MOISTURE  
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
CC-MW-2D-SO-7-20221115 211239-01	6
CC-MW-2D-SO-15-20221115 211239-02	11
CC-MW-FD1-SO-7-20221115 211239-03	5
CC-MW-2D-SO-18-20221115 211239-04	13
CC-MW-2D-SO-20-20221115 211239-05	12
CC-MW-FD2-SO-20-20221115 211239-06	11
CC-MW-2D-SO-27-20221115 211239-07	13
CC-MW-2D-SO-33-20221115 211239-08	13
CC-MW-2D-SO-39-20221115 211239-09	11
CC-MW-2D-SO-41-20221115 211239-10	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-7-20221115	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaner RI 212280-01-10
Date Extracted:	11/18/22	Lab ID:	211239-01 1/0.25
Date Analyzed:	11/18/22	Data File:	111835.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	84	120
Toluene-d8	92	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.0068

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-15-20221115	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaner RI 212280-01-10
Date Extracted:	11/18/22	Lab ID:	211239-02 1/0.25
Date Analyzed:	11/18/22	Data File:	111836.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	84	120
Toluene-d8	103	73	128
4-Bromofluorobenzene	103	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	1.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-FD1-SO-7-20221115	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaner RI 212280-01-10
Date Extracted:	11/18/22	Lab ID:	211239-03 1/0.25
Date Analyzed:	11/18/22	Data File:	111837.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	94	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.0078

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-18-20221115	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaner RI 212280-01-10
Date Extracted:	11/18/22	Lab ID:	211239-04 1/0.25
Date Analyzed:	11/18/22	Data File:	111838.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	84	120
Toluene-d8	92	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.019



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-20-20221115	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaner RI 212280-01-10
Date Extracted:	11/18/22	Lab ID:	211239-05 1/0.25
Date Analyzed:	11/18/22	Data File:	111839.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.018

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID: CC-MW-FD2-SO-20-20221115 Client: Anchor QEA  
Date Received: 11/16/22 Project: Carson Cleaner RI 212280-01-10  
Date Extracted: 11/18/22 Lab ID: 211239-06 1/0.25  
Date Analyzed: 11/18/22 Data File: 111840.D  
Matrix: Soil Instrument: GCMS13  
Units: mg/kg (ppm) Dry Weight Operator: LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	84	120
Toluene-d8	102	73	128
4-Bromofluorobenzene	96	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.028

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-27-20221115	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaner RI 212280-01-10
Date Extracted:	11/18/22	Lab ID:	211239-07 1/0.25
Date Analyzed:	11/18/22	Data File:	111841.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	84	120
Toluene-d8	99	73	128
4-Bromofluorobenzene	96	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-33-20221115	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaner RI 212280-01-10
Date Extracted:	11/18/22	Lab ID:	211239-08 1/0.25
Date Analyzed:	11/18/22	Data File:	111842.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	88	84	120
Toluene-d8	93	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-39-20221115	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaner RI 212280-01-10
Date Extracted:	11/18/22	Lab ID:	211239-09 1/0.25
Date Analyzed:	11/19/22	Data File:	111843.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	94	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-41-20221115	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaner RI 212280-01-10
Date Extracted:	11/18/22	Lab ID:	211239-10 1/0.25
Date Analyzed:	11/19/22	Data File:	111844.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	84	120
Toluene-d8	91	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaner RI 212280-01-10
Date Extracted:	11/18/22	Lab ID:	02-2753 mb 1/0.25
Date Analyzed:	11/18/22	Data File:	111832.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/22

Date Received: 11/16/22

Project: Carson Cleaner RI 212280-01-10, F&BI 211239

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 211237-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	1	<0.05	71	76	10-138	7
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	89	94	14-137	5
cis-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	97	100	25-135	3
Trichloroethene	mg/kg (ppm)	1	<0.02	96	102	21-139	6
Tetrachloroethene	mg/kg (ppm)	1	<0.025	90	96	20-133	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	1	94	22-139
trans-1,2-Dichloroethene	mg/kg (ppm)	1	108	67-129
cis-1,2-Dichloroethene	mg/kg (ppm)	1	113	72-127
Trichloroethene	mg/kg (ppm)	1	112	63-121
Tetrachloroethene	mg/kg (ppm)	1	107	72-114



# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

**SAMPLE CHAIN OF CUSTODY**

11/16/22

M1/VS-C2

211239  
 Report to: Jennifer Marsaki

Company: Anchor GEA

Address: 1201 3rd Ave #2660

City, State, ZIP: Seattle, WA 98101

Phone: 206-287-9130 Email: labdata@anchor.com

SAMPLERS (signature) *JMarsaki*

PROJECT NAME: CAISON Cleaners R1

PO #: 212280-0110

REMARKS: See APP, Swift hold

INVOICE TO: Labdata@anchor.com

Project specific RLS? - Yes / No

ANALYSES REQUESTED

Standard turnaround

RUSH

Archive samples

Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
CC-MW-2D-SO-7-20221115	01A-E	11/15/22	1335	SO	5					X			X Total Solids
CC-MW-2D-SO-15-20221115	02		1340										
CC-MW-FD1-SO-7-20221115	03		1335										
CC-MW-2D-SO-18-20221115	04		1415										
CC-MW-2D-SO-20-20221115	05		1420										
CC-MW-FD2-SO-20-20221115	06		1420										
CC-MW-2D-SO-27-20221115	07		1430										
CC-MW-2D-SO-33-20221115	08		1440										
CC-MW-2D-SO-39-20221115	09		1450										
CC-MW-2D-SO-41-20221115	10		1510										

Relinquished by:	<i>[Signature]</i>	PRINT NAME	NINA MAGS	COMPANY	Anchor GEA	DATE	11/16/22	TIME	1220
Received by:	<i>[Signature]</i>	PRINT NAME	AMMWB	COMPANY	Anchor GEA	DATE	11/16/22	TIME	1220
Relinquished by:									
Received by:									

Friedman & Bruya, Inc.  
 Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

November 29, 2022

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on November 15, 2022 from the Carson Cleaners 212280-01.01, F&BI 211213 project. There are 21 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: labdataattachments@anchorqea.com  
ACQ1129R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 15, 2022 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners 212280-01.01, F&BI 211213 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>
211213 -01	CC-MW-4D-SO-3.9-20221114
211213 -02	CC-MW-4D-SO-9-20221114
211213 -03	CC-MW-4D-SO-12-20221114
211213 -04	CC-MW-4D-SO-20-20221114
211213 -05	CC-MW-4D-SO-23-20221114
211213 -06	CC-MW-4D-SO-26-20221114
211213 -07	TB-20221114
211213 -08	CC-MW-4D-SO-33-20221114
211213 -09	CC-MW-4D-SO-62-20221114
211213 -10	CC-MW-4D-SO-68-20221114
211213 -11	CC-MW-4D-SO-74-20221114
211213 -12	CC-MW-4D-SO-77-20221114

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/29/22

Date Received: 11/15/22

Project: Carson Cleaners 212280-01.01, F&BI 211213

Date Extracted: NA

Date Analyzed: 11/21/22

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES  
FOR PERCENT MOISTURE  
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
CC-MW-4D-SO-3.9-20221114 211213-01	10
CC-MW-4D-SO-9-20221114 211213-02	7
CC-MW-4D-SO-12-20221114 211213-03	14
CC-MW-4D-SO-20-20221114 211213-04	17
CC-MW-4D-SO-23-20221114 211213-05	20
CC-MW-4D-SO-26-20221114 211213-06	13
CC-MW-4D-SO-33-20221114 211213-08	11
CC-MW-4D-SO-62-20221114 211213-09	6
CC-MW-4D-SO-68-20221114 211213-10	12
CC-MW-4D-SO-74-20221114 211213-11	9
CC-MW-4D-SO-77-20221114 211213-12	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-4D-SO-3.9-20221114	Client:	Anchor QEA
Date Received:	11/15/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211213-01 1/0.25
Date Analyzed:	11/18/22	Data File:	111814.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	84	120
Toluene-d8	103	73	128
4-Bromofluorobenzene	99	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.014

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-4D-SO-9-20221114	Client:	Anchor QEA
Date Received:	11/15/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211213-02 1/0.25
Date Analyzed:	11/18/22	Data File:	111815.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	99	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.030

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-4D-SO-12-20221114	Client:	Anchor QEA
Date Received:	11/15/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211213-03 1/0.25
Date Analyzed:	11/18/22	Data File:	111816.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	84	120
Toluene-d8	100	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.11



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-4D-SO-20-20221114	Client:	Anchor QEA
Date Received:	11/15/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211213-04 1/0.25
Date Analyzed:	11/18/22	Data File:	111817.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	84	120
Toluene-d8	105	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-4D-SO-23-20221114	Client:	Anchor QEA
Date Received:	11/15/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211213-05 1/0.25
Date Analyzed:	11/18/22	Data File:	111818.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	112	84	120
Toluene-d8	103	73	128
4-Bromofluorobenzene	96	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	0.0047
Tetrachloroethene	0.59

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-4D-SO-26-20221114	Client:	Anchor QEA
Date Received:	11/15/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211213-06 1/0.25
Date Analyzed:	11/18/22	Data File:	111819.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	84	120
Toluene-d8	103	73	128
4-Bromofluorobenzene	101	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	0.0050
Tetrachloroethene	0.53

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-4D-SO-33-20221114	Client:	Anchor QEA
Date Received:	11/15/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211213-08 1/0.25
Date Analyzed:	11/20/22	Data File:	111915.D
Matrix:	Soil	Instrument:	GCMS11
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	79	128
Toluene-d8	105	84	121
4-Bromofluorobenzene	102	84	116

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-4D-SO-62-20221114	Client:	Anchor QEA
Date Received:	11/15/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211213-09 1/0.25
Date Analyzed:	11/18/22	Data File:	111821.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	84	120
Toluene-d8	102	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-4D-SO-68-20221114	Client:	Anchor QEA
Date Received:	11/15/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211213-10 1/0.25
Date Analyzed:	11/18/22	Data File:	111822.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	84	120
Toluene-d8	92	73	128
4-Bromofluorobenzene	98	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-4D-SO-74-20221114	Client:	Anchor QEA
Date Received:	11/15/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211213-11 1/0.25
Date Analyzed:	11/18/22	Data File:	111823.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	87	84	120
Toluene-d8	92	73	128
4-Bromofluorobenzene	100	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-4D-SO-77-20221114	Client:	Anchor QEA
Date Received:	11/15/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211213-12 1/0.25
Date Analyzed:	11/18/22	Data File:	111824.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	84	120
Toluene-d8	105	73	128
4-Bromofluorobenzene	101	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	02-2768 mb 1/0.25
Date Analyzed:	11/18/22	Data File:	111808.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	71	132
Toluene-d8	105	68	139
4-Bromofluorobenzene	98	62	136

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/19/22	Lab ID:	02-2765 mb 1/0.25
Date Analyzed:	11/19/22	Data File:	111908.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	84	120
Toluene-d8	102	73	128
4-Bromofluorobenzene	94	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	TB-20221114	Client:	Anchor QEA
Date Received:	11/15/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211213-07
Date Analyzed:	11/18/22	Data File:	111834.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	71	132
Toluene-d8	102	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01
Date Extracted:	11/18/22	Lab ID:	02-2769 mb
Date Analyzed:	11/18/22	Data File:	111807.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	71	132
Toluene-d8	102	68	139
4-Bromofluorobenzene	99	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/29/22

Date Received: 11/15/22

Project: Carson Cleaners 212280-01.01, F&BI 211213

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 211195-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	1	<0.05	59	64	10-138	8
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	76	83	14-137	9
cis-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	84	92	25-135	9
Trichloroethene	mg/kg (ppm)	1	<0.02	83	88	21-139	6
Tetrachloroethene	mg/kg (ppm)	1	<0.025	81	84	20-133	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	1	90	22-139
trans-1,2-Dichloroethene	mg/kg (ppm)	1	104	67-129
cis-1,2-Dichloroethene	mg/kg (ppm)	1	109	72-127
Trichloroethene	mg/kg (ppm)	1	110	63-121
Tetrachloroethene	mg/kg (ppm)	1	107	72-114

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/29/22

Date Received: 11/15/22

Project: Carson Cleaners 212280-01.01, F&BI 211213

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 211285-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	1	<0.05	26	27	10-138	4
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	50	50	14-137	0
cis-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	61	61	25-135	0
Trichloroethene	mg/kg (ppm)	1	<0.02	61	60	21-139	2
Tetrachloroethene	mg/kg (ppm)	1	<0.025	55	55	20-133	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	1	98	22-139
trans-1,2-Dichloroethene	mg/kg (ppm)	1	112	67-129
cis-1,2-Dichloroethene	mg/kg (ppm)	1	116	72-127
Trichloroethene	mg/kg (ppm)	1	116	63-121
Tetrachloroethene	mg/kg (ppm)	1	107	72-114

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/29/22

Date Received: 11/15/22

Project: Carson Cleaners 212280-01.01, F&BI 211213

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	76	84	70-130	10
trans-1,2-Dichloroethene	ug/L (ppb)	10	83	92	70-130	10
cis-1,2-Dichloroethene	ug/L (ppb)	10	89	98	70-130	10
Trichloroethene	ug/L (ppb)	10	81	89	70-130	9
Tetrachloroethene	ug/L (ppb)	10	104	106	70-130	2

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



**SAMPLE CHAIN OF CUSTODY**

11/15/22

B11 VS-C2 / VV1

GEN-REF V WARSIA WA 211213

Report To LAB DATA ATTACK @ ANCHOR QEA .COM

Company Anchor QEA

Address 1201 3rd AVE # 2000

City, State, ZIP Seattle, WA 98101

Phone 206 787 1913 Email LAB DATA ATTACK @ ANCHOR QEA .COM

SAMPLERS (signature) Stephen Sweatz

PROJECT NAME CHASSON CULMINATIONS REMEDIATION INVESTIGATION

PO # 212250-01-01

REMARKS Site App, site H2O, H2S

INVOICE TO LAB DATA ATTACK @ ANCHOR QEA .COM

Project specific PLS? Yes / No

Page # 1 of 2

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		Total Solids	
CC-MW-4D-SO-39-20221114	0146	11/14/22	1005	SO	5										
CC-MW-4D-SO-9-20221114	02		1015												
CC-MW-4D-SO-12-20221114	03		1020												
CC-MW-4D-SO-20-20221114	04		1025												
<del>CC-IBW-04</del>			<del>1030</del>												
CC-MW-4D-SO-23-20221114	05		1045												
CC-MW-4D-SO-26-20221114	06		1050												
TB-20221114	07 AB			H2O	2										H2O blank
CC-MW-4D-SO-33-20221114	08 A-E		1115	SO	5										
CC-MW-4D-SO-62-20221114	09		1440	SO	5										

Friedman & Bruya, Inc.  
Ph. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
Relinquished by:	<u>Stephen Sweatz</u>	Stephen Sweatz	Anchor QEA	11-15-22	11:37	Received by:	<u>AMH PHAN</u>	ESB	11/15/22 11:37
Relinquished by:	<u>AMH</u>					Received by:			
Received by:						Samples received at	<u>4</u>	<u>00</u>	

Report To JEFFER MANUSKA 211213

Company ANCHOR GEA

Address 1201 3rd AVE #2600

City, State, ZIP Seattle, WA 98101

Phone 206 287 9132 Email 48 DATA ATTACK@ANCHORGEA.COM

**SAMPLE CHAIN OF CUSTODY**

11/15/22

B11 VS-C2 (VW1)

SAMPLERS (signature)	<u>Stephen Small</u>
PROJECT NAME	<u>Anchor Electronics Demolition Forest &amp; etc</u>
PO #	<u>21280001001</u>
REMARKS	<u>Site QAPP, Street View, Project specific RIs? - Yes</u>
INVOICE TO	<u>48 DATA ATTACK@ANCHORGEA.COM</u>

Page # 2 of 2

TURNAROUND TIME  
 Standard turnaround  
 RUSH  
 Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL  
 Archive samples  
 Other  
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes			
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Total Solids						
CC-MW-4D-SO-68-20221114	10A-R	11/14/22	1455	SO	5														
CC-MW-4D-SO-74-20221114	11	11/14/22	1500	SO	5					X									
CC-MW-4D-SO-77-20221114	12	11/14/22	1520	SO	5					X									

Friedman & Bruya, Inc.  
 Ph. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
<u>Stephen Small</u>		<u>Stephen Small</u>		<u>Anchor GEA</u>		<u>11-15-22</u>	<u>11:37</u>
Relinquished by:		Relinquished by:		Relinquished by:			
<u>AW</u>		<u>AWHPAAN</u>		<u>ESB</u>		<u>11/15/22</u>	<u>11:37</u>
Received by:		Received by:		Received by:			

Samples received at 4 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

December 19, 2022

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on December 7, 2022 from the Carson Cleaners 212280-01.01, F&BI 212113 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: labdataattachments@anchorqea.com  
ACQ1219R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 7, 2022 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners 212280-01.01, F&BI 212113 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>
212113 -01	TB-20221207
212113 -02	BP-MW-27-GW-20221207
212113 -03	BP-MW-28-GW-20221207
212113 -04	MW-25-GW-20221207
212113 -05	BP-FD-27-GW-20221207

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	TB-20221207	Client:	Anchor QEA
Date Received:	12/07/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	12/09/22	Lab ID:	212113-01
Date Analyzed:	12/09/22	Data File:	120909.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	89	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	125	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	BP-MW-27-GW-20221207	Client:	Anchor QEA
Date Received:	12/07/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	12/09/22	Lab ID:	212113-02
Date Analyzed:	12/09/22	Data File:	120913.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	71	132
Toluene-d8	104	68	139
4-Bromofluorobenzene	128	62	136

Compounds:	Concentration ug/L (ppb)
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	0.2
Tetrachloroethene	18

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	BP-MW-27-GW-20221207	Client:	Anchor QEA
Date Received:	12/07/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	12/08/22	Lab ID:	212113-02
Date Analyzed:	12/16/22	Data File:	121611.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	94	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.024

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	BP-MW-28-GW-20221207	Client:	Anchor QEA
Date Received:	12/07/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	12/09/22	Lab ID:	212113-03
Date Analyzed:	12/09/22	Data File:	120914.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	88	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	128	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	0.13
Trichloroethene	0.3
Tetrachloroethene	19



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-25-GW-20221207	Client:	Anchor QEA
Date Received:	12/07/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	12/09/22	Lab ID:	212113-04 1/5
Date Analyzed:	12/09/22	Data File:	120915.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	71	132
Toluene-d8	104	68	139
4-Bromofluorobenzene	131	62	136

Compounds:	Concentration ug/L (ppb)
trans-1,2-Dichloroethene	48
cis-1,2-Dichloroethene	310
Trichloroethene	150
Tetrachloroethene	45

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-25-GW-20221207	Client:	Anchor QEA
Date Received:	12/07/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	12/14/22	Lab ID:	212113-04
Date Analyzed:	12/14/22	Data File:	121418.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	6.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	BP-FD-27-GW-20221207	Client:	Anchor QEA
Date Received:	12/07/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	12/09/22	Lab ID:	212113-05
Date Analyzed:	12/09/22	Data File:	120916.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	71	132
Toluene-d8	102	68	139
4-Bromofluorobenzene	129	62	136

Compounds:	Concentration ug/L (ppb)
trans-1,2-Dichloroethene	<0.05
Trichloroethene	0.21
Tetrachloroethene	19

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	BP-FD-27-GW-20221207	Client:	Anchor QEA
Date Received:	12/07/22	Project:	Carson Cleaners 212280-01.01
Date Extracted:	12/08/22	Lab ID:	212113-05
Date Analyzed:	12/15/22	Data File:	121522.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	95	84	115
4-Bromofluorobenzene	100	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.029
cis-1,2-Dichloroethene	<0.05 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01
Date Extracted:	12/09/22	Lab ID:	02-2859 mb2
Date Analyzed:	12/09/22	Data File:	120907.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	85	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	131	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/19/22

Date Received: 12/07/22

Project: Carson Cleaners 212280-01.01, F&BI 212113

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 212104-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	99	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<0.05	103	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<0.05	99	50-150
Trichloroethene	ug/L (ppb)	10	<0.05	94	50-150
Tetrachloroethene	ug/L (ppb)	10	<0.05	100	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	101	102	70-130	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	108	107	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	103	102	70-130	1
Trichloroethene	ug/L (ppb)	10	99	97	70-130	2
Tetrachloroethene	ug/L (ppb)	10	103	101	70-130	2

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

**Chain of Custody Record & Laboratory Analysis Request**

Laboratory Number: Friedman and Bruya **212113**

Date: 12/1/2022  
 Project Name: Carson Cleaners Remedial Investigation  
 Project Number: 212280-01.01  
 Project Manager: Gavin Casson / Jennifer Marsala  
 Phone Number: 206-287-9130  
 Shipment Method: Drop Off

Test Parameters

12/07/22

VW1



Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers		Comments/Preservation
				CVOCs	EPA Method 8260C	
1	TB - 2072 <del>07</del> 1207	12/1/2022	H2O	2	X	
2	BP-MW-8-GW- <del>20</del> 17-7-721217	12/1/2022	H2O	3	X	
3	BP-MW-27-GW- 2072 1707	12/1/2022	H2O	3	X	
4	BP-MW-28-GW- 2072 1207	12/1/2022	H2O	3	X	
5	BP-MW-29-GW- <del>25</del> 17-7-721217	12/1/2022	H2O	3	X	
6	MW - 25 - GW - 20721707	12-1-22	H2O	3	X	
7	BP- FD - 27 - GW - 20721707	12-1-22	H2O	3	X	
8						
9						
10						
11						
12						
13						
14						
15						

Notes: See QAPP for analytes and methods  
 Short-hold time on CVOCs

Relinquished By: Stephen Smith Company: Anchor OEA, LLC  
 Signature/Printed Name: Stephen Smith Date/Time: 12-1-22/1755  
 Relinquished By: \_\_\_\_\_ Company: \_\_\_\_\_  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: [Signature] Company: FB  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: 12/7/22/1755  
 Received By: \_\_\_\_\_ Company: \_\_\_\_\_  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples received at 300



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

December 20, 2022

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on December 7, 2022 from the Carson Cleaners 212280-01.01, F&BI 212114 project. There are 5 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: labdataattachments@anchorqea.com  
ACQ1220R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 7, 2022 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners 212280-01.01, F&BI 212114 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID  
212114 -01

Anchor QEA  
CC-IA-04-20221207

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-IA-04-20221207	Client:	Anchor QEA
Date Received:	12/07/22	Project:	Carson Cleaners 212280-01.01
Date Collected:	12/07/22	Lab ID:	212114-01
Date Analyzed:	12/14/22	Data File:	121323.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	87	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	0.57	0.14
Trichloroethene	0.51	0.095
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners 212280-01.01
Date Collected:	Not Applicable	Lab ID:	02-2958 MB
Date Analyzed:	12/13/22	Data File:	121312.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	85	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/20/22

Date Received: 12/07/22

Project: Carson Cleaners 212280-01.01, F&BI 212114

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES  
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 212012-01 1/5.0 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Vinyl chloride	ug/m3	<1.3	<1.3	nm
trans-1,2-Dichloroethene	ug/m3	<2	<2	nm
cis-1,2-Dichloroethene	ug/m3	<2	<2	nm
Trichloroethene	ug/m3	<0.54	<0.54	nm
Tetrachloroethene	ug/m3	<34	<34	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	ug/m3	35	101	70-130
trans-1,2-Dichloroethene	ug/m3	54	98	70-130
cis-1,2-Dichloroethene	ug/m3	54	95	70-130
Trichloroethene	ug/m3	73	104	70-130
Tetrachloroethene	ug/m3	92	108	70-130

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

**SAMPLE CHAIN OF CUSTODY**

12/07/12

86 212114  
~~JENNIFER KURTZKA~~

Report To JENNIFER KURTZKA

Company Anchor DEA

Address 1201 3rd Ave #2600

City, State, ZIP Seattle, WA 98101

Phone 2062879130 Email LAB DATA ATTACH @ ANCHORDEA.COM

SAMPLERS (signature) SPS

PROJECT NAME & ADDRESS  
Carson Cleaners

PO #  
212780-01-01

NOTES: SEE APP FOR  
 PAPER SPECIFIC DETAILS

INVOICE TO  
 LAB DATA ATTACH @ ANCHORDEA.COM

Page # 1 of 1

TURNAROUND TIME  
 Standard  
 RUSH  
 Rush charges authorized by:

SAMPLE DISPOSAL  
 Default: Clean following  
 final report delivery  
 Hold (Fee may apply):

**SAMPLE INFORMATION**

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium	Notes
CC-FA-04-20221207	01	40703	05948	IA / SG	12-7-12	30	0905	5	1710			X			
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											
				IA / SG											

**ANALYSIS REQUESTED**

Friedman & Bruya, Inc.  
 5500 4th Avenue South  
 Seattle, WA 98108  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>Stephen Smith</u>	<u>Stephen Smith</u>	<u>Stephen Smith</u>	<u>Anchor DEA</u>	<u>12-7-12</u>	<u>1955</u>		
Received by: <u>BRISWAT</u>	<u>BRISWAT</u>	<u>BRISWAT</u>	<u>Anchor DEA</u>	<u>12/07/12</u>	<u>1955</u>		
Relinquished by:							
Received by:							

Samples received at 1955

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

December 20, 2022

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on December 5, 2022 from the Carson Cleaners Remedial Investigation 212280-01.01, F&BI 212059 project. There are 13 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: labdataattachments@anchorqea.com  
ACQ1220R.DOC



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 5, 2022 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners Remedial Investigation 21280-01.01, F&BI 212059 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>
212059 -01	TB-20221205
212059 -02	CC-MW-4D-GW-20221205
212059 -03	CC-MW-2S-GW-20221205
212059 -04	CC-MW-2D-GW-20221205
212059 -05	CC-MW-03-GW-20221205
212059 -06	CC-MW-06-GW-20221205
212059 -07	CC-MW-01-GW-20221205
212059 -08	BP-MW-8-GW-20221205

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	TB-20221205	Client:	Anchor QEA
Date Received:	12/05/22	Project:	212280-01.01, F&BI 212059
Date Extracted:	12/09/22	Lab ID:	212059-01
Date Analyzed:	12/09/22	Data File:	120910.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	88	71	132
Toluene-d8	93	68	139
4-Bromofluorobenzene	129	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-4D-GW-20221205	Client:	Anchor QEA
Date Received:	12/05/22	Project:	212280-01.01, F&BI 212059
Date Extracted:	12/07/22	Lab ID:	212059-02
Date Analyzed:	12/07/22	Data File:	120722.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	0.19
cis-1,2-Dichloroethene	1.2
Trichloroethene	0.28
Tetrachloroethene	0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-2S-GW-20221205	Client:	Anchor QEA
Date Received:	12/05/22	Project:	212280-01.01, F&BI 212059
Date Extracted:	12/07/22	Lab ID:	212059-03
Date Analyzed:	12/07/22	Data File:	120716.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	0.14

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-2S-GW-20221205	Client:	Anchor QEA
Date Received:	12/05/22	Project:	212280-01.01, F&BI 212059
Date Extracted:	12/19/22	Lab ID:	212059-03
Date Analyzed:	12/19/22	Data File:	121911.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	90	84	115
4-Bromofluorobenzene	95	72	130

Compounds:	Concentration ug/L (ppb)
cis-1,2-Dichloroethene	<0.05 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-2D-GW-20221205	Client:	Anchor QEA
Date Received:	12/05/22	Project:	212280-01.01, F&BI 212059
Date Extracted:	12/07/22	Lab ID:	212059-04
Date Analyzed:	12/07/22	Data File:	120717.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	101	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	0.15
Tetrachloroethene	6.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-03-GW-20221205	Client:	Anchor QEA
Date Received:	12/05/22	Project:	212280-01.01, F&BI 212059
Date Extracted:	12/09/22	Lab ID:	212059-05
Date Analyzed:	12/09/22	Data File:	120911.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	71	132
Toluene-d8	104	68	139
4-Bromofluorobenzene	125	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-06-GW-20221205	Client:	Anchor QEA
Date Received:	12/05/22	Project:	212280-01.01, F&BI 212059
Date Extracted:	12/09/22	Lab ID:	212059-06
Date Analyzed:	12/09/22	Data File:	120912.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	88	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	128	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-01-GW-20221205	Client:	Anchor QEA
Date Received:	12/05/22	Project:	212280-01.01, F&BI 212059
Date Extracted:	12/07/22	Lab ID:	212059-07 1/100
Date Analyzed:	12/07/22	Data File:	120720.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<2
trans-1,2-Dichloroethene	<5
cis-1,2-Dichloroethene	43
Trichloroethene	190
Tetrachloroethene	2,800

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	BP-MW-8-GW-20221205	Client:	Anchor QEA
Date Received:	12/05/22	Project:	212280-01.01, F&BI 212059
Date Extracted:	12/07/22	Lab ID:	212059-08
Date Analyzed:	12/07/22	Data File:	120721.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	100	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	0.29
Tetrachloroethene	20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	212280-01.01, F&BI 212059
Date Extracted:	12/09/22	Lab ID:	02-2856 mb
Date Analyzed:	12/09/22	Data File:	120906.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	90	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	130	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/20/22

Date Received: 12/05/22

Project: Carson Cleaners Remedial Investigation 212280-01.01, F&BI 212059

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 212059-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.02	100	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<0.05	105	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<0.05	101	50-150
Trichloroethene	ug/L (ppb)	10	<0.05	96	50-150
Tetrachloroethene	ug/L (ppb)	10	<0.05	95	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent		Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	99	102	70-130	3
trans-1,2-Dichloroethene	ug/L (ppb)	10	105	108	70-130	3
cis-1,2-Dichloroethene	ug/L (ppb)	10	101	104	70-130	3
Trichloroethene	ug/L (ppb)	10	98	99	70-130	1
Tetrachloroethene	ug/L (ppb)	10	104	102	70-130	2

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

**Chain of Custody Record & Laboratory Analysis Request**

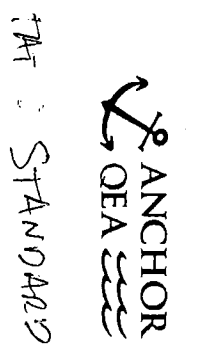
212059

12-05-22

VW2

Laboratory Number: Friedman and Bruya  
 Date: 12/5/2022  
 Project Name: Carson Cleaners Remedial Investigation  
 Project Number: 212280-0101  
 Project Manager: Gavin Casson / Jennifer Marsala  
 Phone Number: 206-287-9130  
 Shipment Method: Drop Off

Test Parameters



Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	CVOCs EPA Method 8260C	Lab ID	Comments/Preservation
1	TB-20221205	12/5/2022	H2O	2	X	01	ON ICE IN COOLER / ICE preservation
2	CC-MW-4D-GW-20221205	12/5/2022	H2O	3	X	02	
3	CC-MW-2S-GW-20221205	12/5/2022	H2O	3	X	03	
4	CC-MW-2D-GW-20221205	12/5/2022	H2O	3	X	04	
5	CC-MW-03-GW-20221205	12/5/2022	H2O	3	X	05	
6	CC-MW-06-GW-20221205	12/5/2022	H2O	3	X	06	
7	CC-MW-01-GW-20221205	12/5/2022	H2O	3	X	07	
8	BP-MW-8-GW-20221205	12/5/22	H2O	3	X	08	ON ICE IN COOLER / ICE preservation
9							
10							
11							
12							
13							
14							
15							

Notes: See QAPP for analytes and methods  
 Short-hold time on CVOCs

Relinquished By: Stephen Smith Company: Anchor OEA, LLC  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: 12-5-22 / 1638  
 Relinquished By: \_\_\_\_\_ Company: FB7  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: 12/5/22 1440

Received By: \_\_\_\_\_ Company: \_\_\_\_\_  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Company: \_\_\_\_\_  
 Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Samples received at 400

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

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Seattle, WA 98108  
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fbi@isomedia.com  
www.friedmanandbruya.com

December 16, 2022

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on December 6, 2022 from the Carson Cleaners Remedial Investigation 212280-01.01, F&BI 212083 project. There are 15 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: labdataattachments@anchorqea.com  
ACQ1216R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 6, 2022 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners Remedial Investigation 212280-01.01, F&BI 212083 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>
212083 -01	TB-20221606
212083 -02	MW-18-GW-20221606
212083 -03	MW-20-GW-20221606
212083 -04	MW-22-GW-20221606
212083 -05	MW-23-GW-20221606
212083 -06	MW-27-GW-20221606
212083 -07	MW-28-GW-20221606

All quality control requirements were acceptable.



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	TB-20221606	Client:	Anchor QEA
Date Received:	12/06/22	Project:	212280-01.01, F&BI 212083
Date Extracted:	12/08/22	Lab ID:	212083-01
Date Analyzed:	12/09/22	Data File:	120908.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	90	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	130	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-18-GW-20221606	Client:	Anchor QEA
Date Received:	12/06/22	Project:	212280-01.01, F&BI 212083
Date Extracted:	12/08/22	Lab ID:	212083-02
Date Analyzed:	12/09/22	Data File:	120917.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	90	71	132
Toluene-d8	101	68	139
4-Bromofluorobenzene	134	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	0.45
Tetrachloroethene	1.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-20-GW-20221606	Client:	Anchor QEA
Date Received:	12/06/22	Project:	212280-01.01, F&BI 212083
Date Extracted:	12/08/22	Lab ID:	212083-03
Date Analyzed:	12/09/22	Data File:	120918.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	71	132
Toluene-d8	96	68	139
4-Bromofluorobenzene	128	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	0.11
cis-1,2-Dichloroethene	1.1
Trichloroethene	5.4
Tetrachloroethene	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-22-GW-20221606	Client:	Anchor QEA
Date Received:	12/06/22	Project:	212280-01.01, F&BI 212083
Date Extracted:	12/08/22	Lab ID:	212083-04 1/10
Date Analyzed:	12/09/22	Data File:	120919.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	71	132
Toluene-d8	106	68	139
4-Bromofluorobenzene	128	62	136

Compounds:	Concentration ug/L (ppb)
trans-1,2-Dichloroethene	12
cis-1,2-Dichloroethene	700
Trichloroethene	410
Tetrachloroethene	1.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-22-GW-20221606	Client:	Anchor QEA
Date Received:	12/06/22	Project:	212280-01.01, F&BI 212083
Date Extracted:	12/14/22	Lab ID:	212083-04 1/10
Date Analyzed:	12/14/22	Data File:	121414.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	5.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-23-GW-20221606	Client:	Anchor QEA
Date Received:	12/06/22	Project:	212280-01.01, F&BI 212083
Date Extracted:	12/08/22	Lab ID:	212083-05 1/10
Date Analyzed:	12/09/22	Data File:	120920.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	71	132
Toluene-d8	103	68	139
4-Bromofluorobenzene	130	62	136

Compounds:	Concentration ug/L (ppb)
trans-1,2-Dichloroethene	19
cis-1,2-Dichloroethene	700
Trichloroethene	220
Tetrachloroethene	0.47

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-23-GW-20221606	Client:	Anchor QEA
Date Received:	12/06/22	Project:	212280-01.01, F&BI 212083
Date Extracted:	12/14/22	Lab ID:	212083-05 1/10
Date Analyzed:	12/14/22	Data File:	121415.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	18

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-27-GW-20221606	Client:	Anchor QEA
Date Received:	12/06/22	Project:	212280-01.01, F&BI 212083
Date Extracted:	12/08/22	Lab ID:	212083-06
Date Analyzed:	12/09/22	Data File:	120921.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	71	132
Toluene-d8	121	68	139
4-Bromofluorobenzene	124	62	136

Compounds:	Concentration ug/L (ppb)
trans-1,2-Dichloroethene	6.4
cis-1,2-Dichloroethene	88
Trichloroethene	42
Tetrachloroethene	0.21



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-27-GW-20221606	Client:	Anchor QEA
Date Received:	12/06/22	Project:	212280-01.01, F&BI 212083
Date Extracted:	12/14/22	Lab ID:	212083-06
Date Analyzed:	12/14/22	Data File:	121416.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	96	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-28-GW-20221606	Client:	Anchor QEA
Date Received:	12/06/22	Project:	212280-01.01, F&BI 212083
Date Extracted:	12/08/22	Lab ID:	212083-07
Date Analyzed:	12/09/22	Data File:	120922.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	71	132
Toluene-d8	126	68	139
4-Bromofluorobenzene	126	62	136

Compounds:	Concentration ug/L (ppb)
trans-1,2-Dichloroethene	1.4
cis-1,2-Dichloroethene	36
Trichloroethene	5.7
Tetrachloroethene	2.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-28-GW-20221606	Client:	Anchor QEA
Date Received:	12/06/22	Project:	212280-01.01, F&BI 212083
Date Extracted:	12/14/22	Lab ID:	212083-07
Date Analyzed:	12/14/22	Data File:	121417.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	78	126
Toluene-d8	103	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.69

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	212280-01.01, F&BI 212083
Date Extracted:	12/09/22	Lab ID:	02-2859 mb2
Date Analyzed:	12/09/22	Data File:	120907.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	85	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	131	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/16/22

Date Received: 12/06/22

Project: Carson Cleaners Remedial Investigation 212280-01.01, F&BI 212083

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 212104-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	10	<0.2	99	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<0.05	103	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<0.05	99	50-150
Trichloroethene	ug/L (ppb)	10	<0.05	94	50-150
Tetrachloroethene	ug/L (ppb)	10	<0.05	100	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent		Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	10	101	102	70-130	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	108	107	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	103	102	70-130	1
Trichloroethene	ug/L (ppb)	10	99	97	70-130	2
Tetrachloroethene	ug/L (ppb)	10	103	101	70-130	2

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

**Chain of Custody Record & Laboratory Analysis Request** 212093

Laboratory Number: Friedman and Bruya

Date: 12/6/2022  
 Project Name: Carson Cleaners Remedial Investigation

Project Number: 212280-01.01  
 Project Manager: Gavin Casson / Jennifer Marsala

Phone Number: 206-287-9130  
 Shipment Method: Drop Off

Test Parameters

12/06/22

VWZ



TURN AROUND: STANDARD

Comments/Preservation

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	CVOCs EPA Method 8260C	Lab ID	Comments/Preservation
1	TB- 2022 1206	12/6/2022	0800 H20	3	X	01	HCL
2	MW-18-GW-20221206	12/6/2022	0910 H20	3	X	02	HCL
3	MW-20-GW-20221206	12/6/2022	1510 H20	3	X	03	
4	MW-22-GW-20221206	12/6/2022	1300 H20	3	X	04	
5	MW-23-GW-20221206	12/6/2022	1400 H20	3	X	05	
6	<del>MW-25-GW-20221206</del>	<del>12/6/2022</del>	<del>H20</del>	<del>3</del>	<del>X</del>		
7	<del>MW-27-GW-20221206</del>	<del>12/6/2022</del>	<del>H20</del>	<del>3</del>	<del>X</del>		
8	<del>MW-29-GW-20221206</del>	<del>12/6/2022</del>	<del>H20</del>	<del>3</del>	<del>X</del>		
9	MW-27-GW-20221206	12-6-22	1120 H20	3	Y	06	HCL
10	MW-28-GW-20221206	12-6-22	1015 H20	3	X	07	HCL
11							
12							
13							
14							
15							

Notes: See QAPP for analytes and methods

Samples received at 2°C

Short-hold time on CVOCs

Groundwater Samples

Relinquished By: STEPHEN SMERL Company: Anchor OEA LLC

Signature/Printed Name: STEPHEN SMERL Date/Time: 12-6-22 / 1632

Relinquished By: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: ANHPHAN Company: F&B

Signature/Printed Name: ANHPHAN Date/Time: 12/06/22 / 16:32

Received By: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Signature/Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

November 23, 2022

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on November 10, 2022 from the Carson Cleaners Remedial Investigations 212280-01.01, F&BI 211162 project. There are 20 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: labdataattachments@anchorqea.com, Jennifer Marsala  
ACQ1123R.DOC



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 10, 2022 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners Remedial Investigations 212280-01.01, F&BI 211162 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>
211162 -01	CC-SB-02-SO-2.5-20221110
211162 -02	CC-SB-02- SO-7.5-20221110
211162 -03	CC-SB-02- SO-14-20221110
211162 -04	CC-SB-02- SO-16-20221110
211162 -05	CC-SB-02- SO-22-20221110
211162 -06	CC-SB-01- SO-2.5-20221110
211162 -07	CC-MW-2S- SO-2.5-20221110
211162 -08	CC-SB01- SO-8-20221110
211162 -09	CC-SB01- SO-12.5-20221110
211162 -10	CC-SB01- SO-17.5-20221110
211162 -11	CC-SB01- SO-22-20221110
211162 -12	TB-20221110

The 8260D internal standards failed the acceptance criteria for sample TB-20221110. The sample reanalyzed with headspace. Both data sets were reported and qualified accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/22

Date Received: 11/10/22

Project: Carson Cleaners Remedial Investigations 212280-01.01, F&BI 211162

Date Extracted: NA

Date Analyzed: 11/17/22

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES  
FOR PERCENT MOISTURE  
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
CC-SB-02-SO-2.5-20221110 211162-01	10
CC-SB-02- SO-7.5-20221110 211162-02	14
CC-SB-02- SO-14-20221110 211162-03	14
CC-SB-02- SO-16-20221110 211162-04	14
CC-SB-02- SO-22-20221110 211162-05	20
CC-SB-01- SO-2.5-20221110 211162-06	14
CC-MW-2S- SO-2.5-20221110 211162-07	11
CC-SB01- SO-8-20221110 211162-08	7
CC-SB01- SO-12.5-20221110 211162-09	14
CC-SB01- SO-17.5-20221110 211162-10	15
CC-SB01- SO-22-20221110 211162-11	20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-SB-02-SO-2.5-20221110	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/11/22	Lab ID:	211162-01 1/0.25
Date Analyzed:	11/11/22	Data File:	111109.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	84	120
Toluene-d8	92	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-SB-02- SO-7.5-20221110	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/11/22	Lab ID:	211162-02 1/0.25
Date Analyzed:	11/11/22	Data File:	111110.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	84	120
Toluene-d8	92	73	128
4-Bromofluorobenzene	96	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.043

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-SB-02- SO-14-20221110	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/11/22	Lab ID:	211162-03 1/0.25
Date Analyzed:	11/11/22	Data File:	111111.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	84	120
Toluene-d8	100	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.23

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-SB-02- SO-16-20221110	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/11/22	Lab ID:	211162-04 1/0.25
Date Analyzed:	11/11/22	Data File:	111112.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	99	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.44

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ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-SB-02- SO-22-20221110	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/11/22	Lab ID:	211162-05 1/0.25
Date Analyzed:	11/11/22	Data File:	111113.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.66

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-SB-01- SO-2.5-20221110	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/11/22	Lab ID:	211162-06 1/0.25
Date Analyzed:	11/11/22	Data File:	111114.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	84	120
Toluene-d8	100	73	128
4-Bromofluorobenzene	99	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005



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ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2S- SO-2.5-20221110	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/11/22	Lab ID:	211162-07 1/0.25
Date Analyzed:	11/11/22	Data File:	111115.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	84	120
Toluene-d8	100	73	128
4-Bromofluorobenzene	96	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

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ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-SB01- SO-8-20221110	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/11/22	Lab ID:	211162-08 1/0.25
Date Analyzed:	11/11/22	Data File:	111116.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	84	120
Toluene-d8	90	73	128
4-Bromofluorobenzene	98	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.0093

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-SB01- SO-12.5-20221110	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/11/22	Lab ID:	211162-09 1/0.25
Date Analyzed:	11/11/22	Data File:	111117.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	84	120
Toluene-d8	93	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.064

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-SB01- SO-17.5-20221110	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/11/22	Lab ID:	211162-10 1/0.25
Date Analyzed:	11/11/22	Data File:	111118.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	90	84	120
Toluene-d8	91	73	128
4-Bromofluorobenzene	96	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.15

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-SB01- SO-22-20221110	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/11/22	Lab ID:	211162-11 1/0.25
Date Analyzed:	11/11/22	Data File:	111119.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	84	120
Toluene-d8	99	73	128
4-Bromofluorobenzene	98	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.24

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/11/22	Lab ID:	02-2750 mb 1/0.25
Date Analyzed:	11/11/22	Data File:	111108.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	84	120
Toluene-d8	100	73	128
4-Bromofluorobenzene	99	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	TB-20221110	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/23/22	Lab ID:	211162-12
Date Analyzed:	11/23/22	Data File:	112307.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	71	132
Toluene-d8	100	68	139
4-Bromofluorobenzene	107	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02 J
trans-1,2-Dichloroethene	<0.05 J
cis-1,2-Dichloroethene	<0.05 J
Trichloroethene	<0.05 J
Tetrachloroethene	<0.05 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	TB-20221110 hs	Client:	Anchor QEA
Date Received:	11/10/22	Project:	212280-01.01, F&BI 211162
Date Extracted:	11/23/22	Lab ID:	211162-12 rr
Date Analyzed:	11/23/22	Data File:	112316.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	88	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	102	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	ProjectID
Date Extracted:	11/23/22	Lab ID:	02-2819 MB
Date Analyzed:	11/23/22	Data File:	112307.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	78	126
Toluene-d8	104	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 11/23/22

Date Received: 11/10/22

Project: Carson Cleaners Remedial Investigations 212280-01.01, F&BI 211162

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 211163-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	1.0	<0.05	24	23	10-79	4
trans-1,2-Dichloroethene	mg/kg (ppm)	1.0	<0.05	57	55	16-122	4
cis-1,2-Dichloroethene	mg/kg (ppm)	1.0	<0.05	66	68	18-129	3
Trichloroethene	mg/kg (ppm)	1.0	<0.02	70	71	14-127	1
Tetrachloroethene	mg/kg (ppm)	1.0	<0.025	82	83	20-121	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	1.0	89	47-106
trans-1,2-Dichloroethene	mg/kg (ppm)	1.0	105	70-130
cis-1,2-Dichloroethene	mg/kg (ppm)	1.0	107	70-130
Trichloroethene	mg/kg (ppm)	1.0	109	53-133
Tetrachloroethene	mg/kg (ppm)	1.0	118	59-138

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/23/22

Date Received: 11/10/22

Project: Carson Cleaners Remedial Investigations 212280-01.01, F&BI 211162

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	77	76	70-130	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	95	94	70-130	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	95	94	70-130	1
Trichloroethene	ug/L (ppb)	10	96	94	70-130	2
Tetrachloroethene	ug/L (ppb)	10	106	105	70-130	1

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

211162 Jennifer Mansueti  
 Report To LAB DATA ATTACH @ ANCHOR OEA . com

Company Anchor OEA  
 Address 1201 3rd Ave, #2400  
 City, State, ZIP Seattle, WA 98101

Phone 206 267 9130 Email Jennifer.Mansueti@AnchorOEA.com

SAMPLE CHAIN OF CUSTODY 11/10/22 W11/02/VS-C1

SAMPLERS (signature) Stephien Smetzn  
 PROJECT NAME CARSON CEMENTS PO # 212280-01-01  
 REMARKS REMOVED FROM SITE INVOICE TO MANASTRA @ ANCHOR OEA . com  
 Project specific RIs? Yes  No

Page # 1 of 2  
 TURNOUROUND TIME  
 Standard turnaround  
 RUSH  
 Rush charges authorized by: \_\_\_\_\_  
 SAMPLE DISPOSAL  
 Archive samples  
 Other \_\_\_\_\_  
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED								Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	% SOLIDS		
CC-SB-02-2.5-20221101 A-E	11/10/22	0920	Soil	5					X						RV 0.005
CC-SB-02-7.5-20221102	02	11/10/22	0935	Soil	5				X						for CVCS
CC-SB-02-14-20221103	03	11/10/22	0945	Soil	5				X						REPORT
CC-SB-02-16-20221104	04	11/10/22	0955	Soil	5				X						PEC
CC-SB-02-22-20221105	05	11/10/22	1015	Soil	5				X						TCE
CC-SB-01-2.5-20221106	06	11/10/22	1040	Soil	5				X						CIS DCE
CC-MWD-2S-2.5-20221107	07	11/10/22	1120	Soil	5				X						TRANS DCE
CC-SB01-8-20221108	08	11/10/22	1140	Soil	5				X						VC
CC-SB01-12.5-20221109	09	11/10/22	1150	Soil	5				X						SP 11/11
CC-SB01-17.5-20221110	10	11/10/22	1200	Soil	5				X						

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>Stephien Smetzn</u>		<u>Stephien Smetzn</u>		<u>AR</u>		11-10-22	1421
Received by: <u>[Signature]</u>		<u>ANH PHAN</u>		<u>FB B</u>		11/10/22	14:21
Relinquished by:							
Received by:						100	

Friedman & Bruya, Inc.  
 Ph. (206) 285-8282

21162

SAMPLE CHAIN OF CUSTODY

11/10/22

VW11/22/VS-C1 2

Report To LAS DATA ATTACH @ ANICHTER DEA. COM

Company ANICHTER DEA

Address 1201 3rd AVE # 2600

City, State, ZIP SEATTLE, WA, 98101

Phone 206 287 9130 Email JMARSALA @ ANICHTERDEA.COM

SAMPLERS (signature) Stephen Smith

PROJECT NAME CASSON CEMENIS

REINFORCING INVESTIGATION

PO # 212280-01.01

REMARKS

See RAPP

Project specific RLS? - Yes / No

INVOICE TO

CASSON @ ANICHTER DEA. COM  
JMARSALA @ ANICHTERDEA.COM

Page # 2 of 2

TURNAROUND TIME

Standard turnaround  
 RUSH  
Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL

Archive samples  
 Other  
Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED						Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270		PCBs EPA 8082	
CC-SR01-22-20221110	11A-E	11/10/22	1220	Soil	5					X				✓- 11/10
TRB-20221110	12A-B	11/10/22		Water	2					X				

Friedmann & Bruya, Inc.  
Ph. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>		Stephen	Smith	AQ		11-10-22	14:21
Received by: <u>[Signature]</u>		ANH PHAM		EG B		11/10/22	14:21
Relinquished by:							
Received by:							

Samples received at 100 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

November 30, 2022

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on November 16, 2022 from the Carson Cleaners RI 212280-01.01, F&BI 211237 project. There are 15 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: labdataattachments@anchorqea.com  
ACQ1130R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 16, 2022 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners RI 212280-01.01, F&BI 211237 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>
211237 -01	CC-MW-2D-SO-60-20221116
211237 -02	CC-MW-6-SO-2.5-20221116
211237 -03	CC-MW-2D-SO-63-20221116
211237 -04	CC-MW-2D-SO-69-20221116
211237 -05	CC-MW-3-SO-2.5-20221116
211237 -06	CC-MW-TB-20221116
211237 -07	CC-MW-2D-SO-71-20221116
211237 -08	CC-MW-2D-SO-78-20221116

All quality control requirements were acceptable.



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/22

Date Received: 11/16/22

Project: Carson Cleaners RI 212280-01.01, F&BI 211237

Date Extracted: NA

Date Analyzed: 11/17/22

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES  
FOR PERCENT MOISTURE  
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
CC-MW-2D-SO-60-20221116 211237-01	7
CC-MW-6-SO-2.5-20221116 211237-02	14
CC-MW-2D-SO-63-20221116 211237-03	8
CC-MW-2D-SO-69-20221116 211237-04	6
CC-MW-3-SO-2.5-20221116 211237-05	9
CC-MW-2D-SO-71-20221116 211237-07	12
CC-MW-2D-SO-78-20221116 211237-08	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-60-20221116	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211237-01 1/0.25
Date Analyzed:	11/19/22	Data File:	111845.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-6-SO-2.5-20221116	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211237-02 1/0.25
Date Analyzed:	11/19/22	Data File:	111846.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	84	120
Toluene-d8	102	73	128
4-Bromofluorobenzene	98	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-63-20221116	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211237-03 1/0.25
Date Analyzed:	11/19/22	Data File:	111847.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	89	84	120
Toluene-d8	91	73	128
4-Bromofluorobenzene	98	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-69-20221116	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211237-04 1/0.25
Date Analyzed:	11/19/22	Data File:	111848.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	84	120
Toluene-d8	102	73	128
4-Bromofluorobenzene	93	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-3-SO-2.5-20221116	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211237-05 1/0.25
Date Analyzed:	11/19/22	Data File:	111849.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	84	120
Toluene-d8	92	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-71-20221116	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211237-07 1/0.25
Date Analyzed:	11/19/22	Data File:	111850.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	84	120
Toluene-d8	103	73	128
4-Bromofluorobenzene	94	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	0.0052

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-2D-SO-78-20221116	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211237-08 1/0.25
Date Analyzed:	11/19/22	Data File:	111851.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	88	84	120
Toluene-d8	93	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/18/22	Lab ID:	02-2753 mb 1/0.25
Date Analyzed:	11/18/22	Data File:	111832.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	CC-MW-TB-20221116	Client:	Anchor QEA
Date Received:	11/16/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/18/22	Lab ID:	211237-06
Date Analyzed:	11/18/22	Data File:	111833.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	99	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/18/22	Lab ID:	02-2769 mb
Date Analyzed:	11/18/22	Data File:	111807.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	71	132
Toluene-d8	102	68	139
4-Bromofluorobenzene	99	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/22

Date Received: 11/16/22

Project: Carson Cleaners RI 212280-01.01, F&BI 211237

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 211237-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	1	<0.05	71	76	10-138	7
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	89	94	14-137	5
cis-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	97	100	25-135	3
Trichloroethene	mg/kg (ppm)	1	<0.02	96	102	21-139	6
Tetrachloroethene	mg/kg (ppm)	1	<0.025	90	96	20-133	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	1	94	22-139
trans-1,2-Dichloroethene	mg/kg (ppm)	1	108	67-129
cis-1,2-Dichloroethene	mg/kg (ppm)	1	113	72-127
Trichloroethene	mg/kg (ppm)	1	112	63-121
Tetrachloroethene	mg/kg (ppm)	1	107	72-114

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/30/22

Date Received: 11/16/22

Project: Carson Cleaners RI 212280-01.01, F&BI 211237

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	76	84	70-130	10
trans-1,2-Dichloroethene	ug/L (ppb)	10	83	92	70-130	10
cis-1,2-Dichloroethene	ug/L (ppb)	10	89	98	70-130	10
Trichloroethene	ug/L (ppb)	10	81	89	70-130	9
Tetrachloroethene	ug/L (ppb)	10	104	106	70-130	2

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The analyte is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits due to sample matrix effects.
- j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

**SAMPLE CHAIN OF CUSTODY**

11/16/22

81/VS-C2/VW1

Report To Jennifer Marsala 211233  
labdata@anchorage.gca.com

Company Anchor GEA

Address 2201 3rd Ave #2600

City, State, ZIP Seattle, WA 98101

Phone 206 287 9130 Email labdata@anchorage.gca.com

SAMPLERS (signature)	<i>[Signature]</i>
PROJECT NAME	CANCON Checkers RI
REMARKS	See CARP, sweat hold time
INVOICE TO	labdata@anchorage.gca.com
PO #	212250-01.01
Project specific RI's? - Yes / No	

Page # 1 of 1

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL

Archive samples

Other \_\_\_\_\_

Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED								Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Total Solids		
CC-MW-2D-SO-60-20221116	DIA-E	11/16/22	1020	SO	5	X									
CC-MW-6-SO-25-20221116	O2	11/16/22	0930		1										
CC-MW-2D-SO-63-20221116	O3		1030		1										
CC-MW-2D-SO-69-20221116	O4		1055		1										
CC-MW-3-25-20221116	O5		1050	↑	↑										
TB	O6 A-B			H2O	2										IMP Blank
CC-MW-2D-SO-71-20221116	O7 A-E		1145	SO	5										
CC-MW-2D-SO-78-20221116	O8		1155	SO	5										

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
<i>[Signature]</i>		Nina Mans		Anchor GEA		11/16/22		1226	
<i>[Signature]</i>		Anna Mans		Anchor GEA		11/16/22		1224	
Received by:		Samples received at		3		°C			

Friedman & Bruya, Inc.  
 Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

November 29, 2022

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on November 18, 2022 from the Carson Cleaners RI 212280-01.01, F&BI 211274 project. There are 22 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: labdataattachments@anchorqea.com  
ACQ1129R.DOC



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 18, 2022 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners RI 212280-01.01, F&BI 211274 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>
211274 -01	CC-MW-3-SO-5-20221117
211274 -02	CC-MW-3-SO-15-20221117
211274 -03	CC-MW-3-SO-18-20221117
211274 -04	CC-MW-3-SO-23-20221117
211274 -05	CC-MW-3-SO-29-20221117
211274 -06	CC-MW-3-SO-34-20221117
211274 -07	CC-MW-6-SO-7-20221117
211274 -08	CC-MW-FD3-SO-7-20221117
211274 -09	CC-MW-6-SO-13-20221117
211274 -10	CC-MW-6-SO-16-20221117
211274 -11	CC-MW-6-SO-22-20221117
211274 -12	CC-MW-6-SO-27-20221117
211274 -13	CC-MW-6-SO-34-20221117
211274 -14	TB-20221117

The 8260D samples CC-MW-3-SO-23-20221117 and CC-MW-6-SO-13-20221117 were reported below the standard reporting limit due to percent moisture. The data were qualified accordingly.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/29/22

Date Received: 11/18/22

Project: Carson Cleaners RI 212280-01.01, F&BI 211274

Date Extracted: NA

Date Analyzed: 11/18/22

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES  
FOR PERCENT MOISTURE  
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
CC-MW-3-SO-5-20221117 211274-01	22
CC-MW-3-SO-15-20221117 211274-02	29
CC-MW-3-SO-18-20221117 211274-03	15
CC-MW-3-SO-23-20221117 211274-04	51
CC-MW-3-SO-29-20221117 211274-05	36
CC-MW-3-SO-34-20221117 211274-06	31
CC-MW-6-SO-7-20221117 211274-07	37
CC-MW-FD3-SO-7-20221117 211274-08	7
CC-MW-6-SO-13-20221117 211274-09	53
CC-MW-6-SO-16-20221117 211274-10	26
CC-MW-6-SO-22-20221117 211274-11	34

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/29/22

Date Received: 11/18/22

Project: Carson Cleaners RI 212280-01.01, F&BI 211274

Date Extracted: NA

Date Analyzed: 11/18/22

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES  
FOR PERCENT MOISTURE  
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
CC-MW-6-SO-27-20221117 211274-12	19
CC-MW-6-SO-34-20221117 211274-13	30

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-3-SO-5-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-01 1/0.25
Date Analyzed:	11/19/22	Data File:	111909.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	84	120
Toluene-d8	96	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-3-SO-15-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-02 1/0.25
Date Analyzed:	11/19/22	Data File:	111910.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	84	120
Toluene-d8	95	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-3-SO-18-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-03 1/0.25
Date Analyzed:	11/20/22	Data File:	111911.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-3-SO-23-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-04 1/0.25
Date Analyzed:	11/20/22	Data File:	111912.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	96	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005 j
trans-1,2-Dichloroethene	<0.005 j
cis-1,2-Dichloroethene	<0.005 j
Trichloroethene	<0.005 j
Tetrachloroethene	<0.005 j

Note: Reporting limits have been qualified due to high moisture content in the sample.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-3-SO-29-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-05 1/0.25
Date Analyzed:	11/20/22	Data File:	111913.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	84	120
Toluene-d8	103	73	128
4-Bromofluorobenzene	96	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-3-SO-34-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-06 1/0.25
Date Analyzed:	11/20/22	Data File:	111914.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	84	120
Toluene-d8	102	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-6-SO-7-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-07 1/0.25
Date Analyzed:	11/20/22	Data File:	111915.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	98	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-FD3-SO-7-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-08 1/0.25
Date Analyzed:	11/20/22	Data File:	111916.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-6-SO-13-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-09 1/0.25
Date Analyzed:	11/20/22	Data File:	111917.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	84	120
Toluene-d8	100	73	128
4-Bromofluorobenzene	94	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005 j
trans-1,2-Dichloroethene	<0.005 j
cis-1,2-Dichloroethene	<0.005 j
Trichloroethene	<0.005 j
Tetrachloroethene	<0.005 j

Note: Reporting limits have been qualified due to high moisture content in the sample.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-6-SO-16-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-10 1/0.25
Date Analyzed:	11/20/22	Data File:	111918.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	84	120
Toluene-d8	103	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-6-SO-22-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-11 1/0.25
Date Analyzed:	11/20/22	Data File:	111919.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	90	84	120
Toluene-d8	94	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-6-SO-27-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-12 1/0.25
Date Analyzed:	11/20/22	Data File:	111920.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	84	120
Toluene-d8	94	73	128
4-Bromofluorobenzene	98	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	CC-MW-6-SO-34-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	211274-13 1/0.25
Date Analyzed:	11/20/22	Data File:	111921.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	84	120
Toluene-d8	95	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
trans-1,2-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
Trichloroethene	<0.005
Tetrachloroethene	<0.005



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/19/22	Lab ID:	02-2765 mb 1/0.25
Date Analyzed:	11/19/22	Data File:	111908.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	84	120
Toluene-d8	102	73	128
4-Bromofluorobenzene	94	57	146

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.0025 j
trans-1,2-Dichloroethene	<0.0025 j
cis-1,2-Dichloroethene	<0.0025 j
Trichloroethene	<0.0025 j
Tetrachloroethene	<0.0025 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	TB-20221117	Client:	Anchor QEA
Date Received:	11/18/22	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/21/22	Lab ID:	211274-14
Date Analyzed:	11/21/22	Data File:	112109.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	116	71	132
Toluene-d8	105	68	139
4-Bromofluorobenzene	87	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	Carson Cleaners RI 212280-01.01
Date Extracted:	11/21/22	Lab ID:	02-2647 mb
Date Analyzed:	11/21/22	Data File:	112107.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	71	132
Toluene-d8	103	68	139
4-Bromofluorobenzene	98	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
trans-1,2-Dichloroethene	<0.05
cis-1,2-Dichloroethene	<0.05
Trichloroethene	<0.05
Tetrachloroethene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/29/22

Date Received: 11/18/22

Project: Carson Cleaners RI 212280-01.01, F&BI 211274

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: 211285-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	1	<0.05	26	27	10-138	4
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	50	50	14-137	0
cis-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	61	61	25-135	0
Trichloroethene	mg/kg (ppm)	1	<0.03	61	60	21-139	2
Tetrachloroethene	mg/kg (ppm)	1	<0.025	55	55	20-133	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	1	98	22-139
trans-1,2-Dichloroethene	mg/kg (ppm)	1	112	67-129
cis-1,2-Dichloroethene	mg/kg (ppm)	1	116	72-127
Trichloroethene	mg/kg (ppm)	1	116	63-121
Tetrachloroethene	mg/kg (ppm)	1	107	72-114

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/29/22

Date Received: 11/18/22

Project: Carson Cleaners RI 212280-01.01, F&BI 211274

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	10	89	79	70-130	12
trans-1,2-Dichloroethene	ug/L (ppb)	10	92	83	70-130	10
cis-1,2-Dichloroethene	ug/L (ppb)	10	100	89	70-130	12
Trichloroethene	ug/L (ppb)	10	90	80	70-130	12
Tetrachloroethene	ug/L (ppb)	10	104	100	70-130	4

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

211274

Report To Jennifer Marsala

Company Anchor QEA

Address 1701 3rd Ave #2000

City, State, ZIP Seattle, WA 98101

Phone 206-281-9130 Email labdata@anchorqea.com

SAMPLE CHAIN OF CUSTODY

SAMPLES (signature)

PROJECT NAME

Carson Cleaners RI

PO #

212280-01.01

REMARKS

See APP, smt hold

INVOICE TO

labdata@anchorqea.com

Project specific RI's? Yes / No

11/18/22

VW2/H2/VS-C4

Page # 1 of 2

TURNAROUND TIME

Standard turnaround

RUSH Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
CC-MW-3-SO-5-20221117	01 A-E	11/17/22	1050	SO	5					X			X Total Solids
CC-MW-3-SO-15-20221117	02		1105										
CC-MW-3-SO-18-20221117	03		1115										
CC-MW-3-SO-20-20221117	04		1130										
CC-MW-3-SO-21-20221117	05		1135										
CC-MW-3-SO-24-20221117	06		1145										
CC-MW-6-SO-7-20221117	07		1405										
CC-MW-FD3-SO-7-20221117	08		1405										
CC-MW-6-SO-13-20221117	09		1410										
CC-MW-6-SO-16-20221117	10		1425										

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

NINA MAAS

Anchor QEA

11/18/22 0830

Relinquished by:

Received by:

Samples received at 1:00

AMH PHAN

F8B

11/19/22 08:30

Friedman & Bruya, Inc. Ph. (206) 285-8282

211874

Report To: Jennifer Masala

Company: Anchor QEA

Address: 1201 3rd AVE #2000

City, State, ZIP: Seattle, WA 98101

Phone: 206-281-9130 Email: lab@anchorage.com

SAMPLE CHAIN OF CUSTODY

11/19/22

WA/42/VS-C4

Page # 2 of 2

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other:

SAMPLERS (signature)

PROJECT NAME

CANSON Cleaners P1

PO #

212280-0101

REMARKS

see QAPP, spot ml'd

INVOICE TO

lab@anchorage.com  
anchorage.com

Project Specific RIs - Yes / No

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Total Solids			
CC-MW-6-SO-22-20221117	11A-E	11/7/22	1435	SO	5				X						
CC-MW-6-SO-21-20221117	12		1440	↓					X						
CC-MW-6-SO-34-20221117	13		1450	↓					X						
TB-20221117	14A-B			H <sub>2</sub> O	2				X						TRIP BLANK

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

NINA MAS

Anchor QEA

11/19/22 0830

Received by:

[Signature]

Relinquished by:

[Signature]

Samples received at

FRB

Received by:

[Signature]

ANH PHAN

11/19/22 08:30

Friedman & Bruya, Inc.

5500 4th Avenue S

Seattle, WA 98108

Ph. (206) 285-8282



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Vineta Mills, M.S.  
Eric Young, B.S.

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

December 28, 2022

Lab Data Attachments, Project Manager  
Anchor QEA  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

Dear Lab Data Manager:

Included are the results from the testing of material submitted on December 9, 2022 from the Carson Cleaners RI 212280-01.01, F&BI 212177 project. There are 11 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: labdataattachments@anchorqea.com  
ACQ1228R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 9, 2022 by Friedman & Bruya, Inc. from the Anchor QEA Carson Cleaners RI 212280-01.01, F&BI 212177 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Anchor QEA</u>
212177 -01	CC-SS-01-20221209
212177 -02	CC-SS-02-20221209
212177 -03	CC-SS-03-20221209
212177 -04	CC-IA-01-20221209
212177 -05	CC-IA-02-20221209
212177 -06	CC-IA-03-20221209
212177 -07	CC-AA-01-20221209

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-SS-01-20221209	Client:	Anchor QEA
Date Received:	12/09/22	Project:	212280-01.01, F&BI 212177
Date Collected:	12/09/22	Lab ID:	212177-01 1/5.0
Date Analyzed:	12/17/22	Data File:	121616.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	86	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<1.3	<0.5
trans-1,2-Dichloroethene	<2	<0.5
cis-1,2-Dichloroethene	<2	<0.5
Trichloroethene	<0.54	<0.1
Tetrachloroethene	<34	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-SS-02-20221209	Client:	Anchor QEA
Date Received:	12/09/22	Project:	212280-01.01, F&BI 212177
Date Collected:	12/09/22	Lab ID:	212177-02 1/56
Date Analyzed:	12/17/22	Data File:	121618.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	86	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<7 j	<2.8 j
trans-1,2-Dichloroethene	<22	<5.6
cis-1,2-Dichloroethene	<22	<5.6
Trichloroethene	<6	<1.1
Tetrachloroethene	<190 j	<28 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-SS-03-20221209	Client:	Anchor QEA
Date Received:	12/09/22	Project:	212280-01.01, F&BI 212177
Date Collected:	12/09/22	Lab ID:	212177-03 1/11
Date Analyzed:	12/17/22	Data File:	121617.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	88	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<2.8	<1.1
trans-1,2-Dichloroethene	<4.4	<1.1
cis-1,2-Dichloroethene	<4.4	<1.1
Trichloroethene	<1.2	<0.22
Tetrachloroethene	<75	<11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-IA-01-20221209	Client:	Anchor QEA
Date Received:	12/09/22	Project:	212280-01.01, F&BI 212177
Date Collected:	12/09/22	Lab ID:	212177-04
Date Analyzed:	12/17/22	Data File:	121615.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	84	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-IA-02-20221209	Client:	Anchor QEA
Date Received:	12/09/22	Project:	212280-01.01, F&BI 212177
Date Collected:	12/09/22	Lab ID:	212177-05
Date Analyzed:	12/16/22	Data File:	121614.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	86	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-IA-03-20221209	Client:	Anchor QEA
Date Received:	12/09/22	Project:	212280-01.01, F&BI 212177
Date Collected:	12/09/22	Lab ID:	212177-06
Date Analyzed:	12/16/22	Data File:	121613.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	85	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	CC-AA-01-20221209	Client:	Anchor QEA
Date Received:	12/09/22	Project:	212280-01.01, F&BI 212177
Date Collected:	12/09/22	Lab ID:	212177-07
Date Analyzed:	12/16/22	Data File:	121612.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	85	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Anchor QEA
Date Received:	Not Applicable	Project:	212280-01.01, F&BI 212177
Date Collected:	Not Applicable	Lab ID:	02-2970 MB
Date Analyzed:	12/16/22	Data File:	121611.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	83	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.13 j	<0.05 j
trans-1,2-Dichloroethene	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
Trichloroethene	<0.11	<0.02
Tetrachloroethene	<3.4 j	<0.5 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/28/22

Date Received: 12/09/22

Project: Carson Cleaners RI 212280-01.01, F&BI 212177

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES  
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 212172-02 1/4.8 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Vinyl chloride	ug/m3	<1.2	<1.2	nm
trans-1,2-Dichloroethene	ug/m3	<1.9	<1.9	nm
cis-1,2-Dichloroethene	ug/m3	<1.9	<1.9	nm
Trichloroethene	ug/m3	<0.52	<0.52	nm
Tetrachloroethene	ug/m3	<33	<33	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	ug/m3	35	87	70-130
trans-1,2-Dichloroethene	ug/m3	54	89	70-130
cis-1,2-Dichloroethene	ug/m3	54	87	70-130
Trichloroethene	ug/m3	73	100	70-130
Tetrachloroethene	ug/m3	92	108	70-130

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

**Chain of Custody Record & Laboratory Analysis Request** 212177

12/09/22

Laboratory Number: Friedman and Bruya  
 Date: 12/9/2022  
 Project Name: Carson Cleaners Remedial Investigation  
 Project Number: 212280-01.01  
 Project Manager: Gavin Casson / Jennifer Marsala  
 Phone Number: 206-287-9130  
 Shipment Method: Drop Off

Line	Field Sample ID	Date	Start Time	End Time	Initial Volume	End Volume	Matrix	No. of Containers		Test Parameters	Comments	
								VOCs	EPA Method TO-15			
1	CC-SS-01-20221209	12/9/2022	0815	1625	29.0	3.5	Air	1	X		D1	SUBSAB, CAN: 18561, REG: 12
2	CC-SS-02-20221209	12/9/2022	0830	1515	35.0	28.5	Air	1	X		D2	SUBSAB, CAN: 33214, REG: 18
3	CC-SS-03-20221209	12/9/2022	0800	1640	29.0	17.0	Air	1	X		D3	SUB-SUBS, CAN: 23227, REG: 03
4	CC-IA-01-20221209	12/9/2022	0815	1625	30.0	5.0	Air	1	X		D4	FWD-CON AFR2, CAN: 40708, REG: 03851
5	CC-IA-02-20221209	12/9/2022	0830	1630	27.0	5.0	Air	1	X		D5	FWD-CON AFR2, CAN: 20545, REG: 08162
6	CC-IA-03-20221209	12/9/2022					Air	1	X			
7	CC-IA-04-20221209	12/9/2022	0800	1640	28.5	3.5	Air	1	X		D6	FWD-CON AFR2, CAN: 33224, REG: 07845
8	CC-AA-01-20221209	12/9/2022	0720	1615	29.0	2.5	Air	1	X		D7	AM9-AGENT AFR2, REG: 05350, CAN: 21484
9												
10												
11												
12												
13												
14												
15												

Notes: See QAPP for analytes and methods

CC-SS-02 AND CC-SS-04 ~~ISSUES~~ ISSUES w/ WILSON.

Relinquished By: STEPHEN SMITH Company: Anchor QEA, LLC Date/Time: 12-9-22/1730

Received By: [Signature] Company: FSB Date/Time: 12/09/22/17:30

Relinquished By: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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Samples received at 19 °C